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Food and Agriculture  
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ASFIS-6 (Rev. 4)

AQUATIC SCIENCES AND FISHERIES INFORMATION SYSTEM

# Aquatic Sciences and Fisheries Thesaurus

Descriptors used in the  
Aquatic Sciences and Fisheries Information System



**AQUATIC SCIENCES AND FISHERIES INFORMATION SYSTEM**

# **Aquatic Sciences and Fisheries Thesaurus**

**Descriptors Used in the  
Aquatic Sciences and Fisheries Information System**

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## PREFACE

The publications comprising the ASFIS Reference Series define the rules, authority lists, formats, codes and procedures on which the ASFIS system is based, and therefore they are intended to ensure the consistency necessary for the computer processing and the uniformity within the resulting ASFIS information products. This Thesaurus is the “authority list” which indexers use to choose subject descriptors while preparing references for inclusion in the ASFA bibliographic database (the ASFA bibliographic database is the principal information module or output of the ASFIS system).

The Aquatic Sciences and Fisheries Information System (ASFIS) is an international, cooperative information system dealing with the science, technology and management relating to marine, brackish water and freshwater organisms and environments, including their socio-economic and legal aspects. The system is maintained jointly by the Food and Agriculture Organization of the United Nations (FAO), the Intergovernmental Oceanographic Commission of Unesco (IOC), United Nations/Division for Ocean Affairs and the Law of the Sea (UN/DOALOS) and the United Nations Environment Programme (UNEP) with the collaboration of numerous international and national institutes and organizations world-wide (i.e. the ASFIS/ASFA Partners). The ASFIS system's main output is the Aquatic Sciences and Fisheries Abstracts (ASFA) bibliographic database containing more than 2 million references with abstracts and indexing, accessioned since 1971 (and earlier for specific subjects, journals or areas). Upwards of 4000 references are added to the database each month.

The references or input to the ASFA bibliographic database are prepared by a network of National, and International ASFA Partners, including the ASFA Publisher (ProQuest). The bibliographic references are sent to the Publisher where they are processed by computer and merged to create a master file (i.e. the ASFA database). The ASFA database is made available to the ASFA Partners in various formats or media (e.g. Internet, CD/DVD Rom, printed abstracts journals) for use as a source of data for local or national information services. The database is also made commercially available by ProQuest to the general public.

The bibliographic reference for each document in the ASFA database contains: 1) a detailed bibliographic citation, 2) an abstract; and 3) a set of indexing terms. The identification of the data elements making up the bibliographic citation, the writing of the abstract, and the choice of the indexing terms is the responsibility of the ASFA Partner.

Computer based information systems operate most successfully when the input (in this case bibliographic references) is prepared with a high degree of consistency and accuracy. This is true for any computer based system, but it is even more important in an international system like ASFA in which the preparation of input is highly decentralized. In order to attain the desired level of consistency and accuracy, it is necessary that all of the persons submitting references for inclusion in the ASFA database are trained in using a standardized: cataloguing, abstracting and indexing procedure.

**The purpose of this Thesaurus is to assist the indexers, in the participating ASFA Partner institutes, in consistently choosing the most appropriate subject descriptors** while preparing bibliographic references for inclusion in the ASFA database. Of course, **the Thesaurus is also of use to the “searcher” of the ASFA database**, and it is included as a tool or search aid in the interfaces to the computer searchable versions of the ASFA database.

For further information on ASFA, see the ASFA Home page (<http://www.fao.org/fishery/asfa/en> ).



## **ACKNOWLEDGEMENTS (1986 Edition)**

Compilation of this extensive terminology would not have been possible without the willing support of all personnel involved over many years in the development and production of Aquatic Sciences and Fisheries Abstracts (ASFA). This support by past and present members of the ASFA Advisory Board and indexing staff whose names are listed on the editorial pages of ASFA is gratefully acknowledged. Thanks are also due to many specialists in the FAO Fisheries Department, in the Institute of Oceanographic Sciences at Wormley, UK and in the Institute of Offshore Engineering, UK, who have suggested descriptors and defined concepts relevant to their fields of speciality.

To the compilers of this edition of the Thesaurus goes the credit for their unique and valuable achievement. The enormous task of structuring the terminology for the aquatic biology, biological oceanography, and living resource aspects was undertaken by Dr Elda Fagetti of the FAO Fisheries Department; her dedicated efforts launched the development of this Thesaurus on a sound foundation. The entries relevant to the expanded scope of ASFA into physical oceanography, ocean technology and non-living resource aspects were added by Dr D.W. Privett of the UK Institute of Oceanographic Sciences, Wormley, working under contract to FAO. To Mr J.R.L. Sears of Cambridge Scientific Abstracts, Bethesda, MD., USA, goes the credit for suggesting a large number of descriptors and editing online the final print version of this Thesaurus. In addition to the compilers, acknowledgement goes to Arnold Myers (Institute of Offshore Engineering, IOE) who contributed to the vocabulary in marine technology; to Cinda Yates Gainch (Division of the Unesco Libraries, Archives and Documentation Services), who adapted the SPINES software to the ASFIS Thesaurus requirements and carried out the initial computerisation process.

Last but not least in this list of names go acknowledgements to Mr E.F. Akyüz, Chief, Fishery Information, Data and Statistics Service, FAO, who made possible the realisation of this Thesaurus, to Mr R. Needham, head of the Research Information Unit which is responsible for development of all of the ASFIS Reference Series, and to the ASFA staff of the same unit who in one way or another were involved in this lengthy task, particularly Mrs Giovanna Sebastiani-Corbellini and Mrs Luciana Lombardi-Gianandrea, for their invaluable and patient help at the keyboarding and proofreading stages of the Thesaurus.

## **ACKNOWLEDGEMENTS (2000 Edition)**

Adding to the difficult task of updating a Thesaurus, the compiler of this edition (Ms Julia. Hudson, IDC Consultants, Ottawa, Canada) took up the task following many years in which the Thesaurus's maintenance was left pending. During this revision, the Thesaurus maintenance was moved to the OECD thesaurus management software (OECD's Multilingual Thesaurus Manager, MTM). Discussion and voting on the terms was undertaken by the ASFA Thesaurus Working Group then comprised of: Richard. Pepe (FAO, ASFA Secretariat, Italy), Angela Hitti (CSA, USA), Jacqueline Prod'homme (IFREMER, France) and Wulf. Kirchner (BF, Germany).

## **ACKNOWLEDGEMENTS (2009 Edition)**

Periodic revisions to subject terminologies are required as the discipline continues to develop and mature.

The 2009 Edition (Revision 3) incorporates some 200 further entries compiled from two draft lists of amended and new terms. The first list was the collation of the suggestions sent by ASFA Partners. The second was drawn up by the FAO ASFA Secretariat from a review of the FAO Fisheries Glossary. The major work of compiling, circulating and coordinating these lists was undertaken by Ms Linda Noble (National Marine Biological Library, Plymouth, UK) and Ms Helen Wibley (ASFA Secretariat, Rome, Italy). Discussion and voting on the terms was undertaken by the ASFA Thesaurus Working Group which was re-established at the 2006 ASFA Board meeting. The members of this Group were Richard Pepe and Helen Wibley (FAO, ASFA Secretariat), Craig Emerson and Vicki Soto (ProQuest), Linda Noble (NMBL/UK), Jacqueline Prod'homme (IFREMER) and Ian Pettman (FBA/UK).

The thesaurus revision was carried out by Ian Pettman (Freshwater Biological Association, The Ferry Landing, Ambleside, Cumbria, U.K) using the MultiTes Pro thesaurus software. Acknowledgment goes to the efforts of Ian Pettman, who, besides incorporating the revisions and making the necessary structural adjustments, also provided outputs for the print version of the Thesaurus and for other computer formats (XML, OWL and SKOS) for various other potential future applications (e.g. ontologies, GIS).

## **ACKNOWLEDGEMENTS (2018 Edition)**

The 2018 Edition (Revision 4) incorporates some 610 further entries compiled from two draft lists of amended and new terms. The first list was the collation of the suggestions sent by ASFA Partners. The second was drawn up by the FAO ASFA Secretariat. In addition, a list of some 60 orphan terms from the 2009 Edition was examined for expansion or exclusion of these terms. The major work of compiling, circulating and coordinating these lists was undertaken by Ms Linda Noble (Consultant to ASFA Secretariat, based in UK) and Mr Richard Pepe (Consultant to ASFA Secretariat, Rome, Italy). Discussion and voting on the terms was undertaken by the ASFA Thesaurus Working Group which was re-established at the 2015 ASFA Board meeting. The members of this Group were Richard Pepe, Linda Noble and Helen Wibley (FAO, ASFA Secretariat), Paula McCoy and Natalie Abram (ProQuest), Guillermina Cosulich (INIDEP/Argentina), Daryl L. Superio (SEAFDEC/Philippines), Jacqueline Prod'homme (IFREMER) and Ian Pettman (FBA/UK).

The thesaurus revision was carried out by Ian Pettman (Freshwater Biological Association, The Ferry Landing, Ambleside, Cumbria, U.K) using the MultiTees Pro thesaurus software. Acknowledgment goes to the efforts of Ian Pettman, who, besides incorporating the revisions and making the necessary structural adjustments, also provided outputs for the print version of the Thesaurus and for other computer formats (Text, XML, Excel and SKOS) for various other potential future applications (e.g. ontologies, GIS).



# Explanatory note

by

Elda Fagetti, FAO  
(Revised by Ian Pettman, FBA)

## 1. PURPOSE AND COVERAGE OF THE ASFIS THESAURUS

### 1.1. Purpose

The ASFIS Thesaurus has been conceived so as to correspond to the objectives of the ASFIS system. It permits the subject indexing and retrieval of information on all aspects of aquatic sciences and technology, exploitation of living and non-living resources, related policy, social and economic aspects, processing and marketing of aquatic products, as recorded and stored in the Aquatic Sciences and Fisheries Information System's ASFA database. So far as can be ascertained, this is the only Thesaurus devoted to this broad field of knowledge. This Revision 4 supersedes the "Thesaurus of Terms for Aquatic Sciences and Fisheries" published in 1976 as FAO Fisheries Circular number 344, the "Aquatic Sciences and Fisheries Thesaurus" published in 1986 as ASFA Reference Series No.6, Revision 1, the "Aquatic Sciences and Fisheries Thesaurus" published in 2000 as ASFA Reference Series No.6, Revision 2 and the "Aquatic Sciences and Fisheries Thesaurus" published in 2009 as ASFA Reference Series No.6, Revision 3.

### 1.2. Status of Thesaurus Development

It is perhaps worthwhile to emphasize that a technical thesaurus is not concerned with "semantic perfection" or exact hierarchy of scientific disciplines. Its structure is developed in accordance with the pragmatic requirements of information retrieval. The terminology presented in this publication has resulted from the experience gained in indexing over 2,000,000 records for inclusion in the Aquatic Sciences and Fisheries Abstracts database during 1971-2016. Extensive reference has been made to other related authority lists, thesauri, term glossaries and dictionaries. A list of these can be found in the bibliography. Nevertheless, terminology relevant to any area of scientific/technological development grows hand-in-hand with that development, and no thesaurus can ever be regarded as final.

The effort of compiling a more comprehensive update to this Thesaurus would have taken considerably more time. Rather than tolerate further delay in revising the now outdated 2009 edition, the ASFA Advisory Board has chosen to publish this Thesaurus now. Users may find some topics within the scope of ASFIS still not satisfactorily covered. To facilitate revision and updating, comments on and/or criticisms of the Thesaurus are welcome. Such comments/criticisms as well as suggestions for new terms to be added to the Thesaurus should be submitted on the forms found in this Thesaurus to:

Fishery Statistics and Information Branch (FIAS)  
Attention: ASFA  
Fisheries and Aquaculture Department  
Food and Agriculture Organization of the United Nations  
00153 Rome, Italy

The Thesaurus covers only subject index terms and should be used in conjunction with the ASFIS Guidelines for Subject Categorisation and Indexing - (ASFIS-5) - and the other ASFIS indexing tools, namely ASFIS Geographic Authority List - (ASFIS-7) - for geographic indexing and the ASFIS List of Species for Fishery Statistics Purposes (ASFIS -15), for taxonomic indexing.

### 1.3. Background

This thesaurus has evolved hand-in-hand with the growth of interest in aquatic ecosystems (both marine and freshwater) during the last 46 years, and the accompanying problems in handling the rapidly increasing volume of relevant scientific and technical literature.

In 1964, as a result of a collaborative programme with the University of Rhode Island, FAO published a *List of classification terms and subject descriptors*. In 1970, when arrangements were being made for the cooperative publication of the *Aquatic Sciences and Fisheries Abstracts (ASFA)* journal, the Informations and Dokumentationsstelle of the Bundesforschungsanstalt für Fischerei (Hamburg, Germany FR), undertook to further develop and classify this list. This work resulted in a considerably enhanced terminology (1971, revised 1974) which was used to index citations appearing in ASFA during this period.

In this next phase, FAO structured this terminological authority to produce a draft structured thesaurus (1974) which was evaluated in the production of a new experimental index for the 1975 volume of ASFA and used to index ASFA documents until the revised and enlarged version was published by FAO (FAO, 1976). This was widely distributed among ASFA indexers and users, specialised libraries and information systems over the world. It has been translated into Spanish (Mileo, A.T., 1981 and 1985) and French, following the IOC Executive Council recommendation of May 1979 (IOC/EC - X1.13) that "the Secretary of IOC makes arrangements when required for the translation of the terms in the enlarged ASFIS Thesaurus (ASFIS-6) through interested international institutions and member states, in particular in conjunction with ASFIS centres and other centres of excellence, having the necessary linguistic competence."

The widening of the ASFA scope in 1978 to cover also non-living resources and their exploitation called for additional appropriate terminology which was developed hand-in-hand with the development of ASFA-2: *Ocean Technology, Policy and Non-Living Resources*. The 1986 ASFIS Thesaurus (ASFIS-6, Revision 1) included therefore the original ASFA terminology in use since its origin plus additional terms relevant to the enlarged scope of ASFA or to the overall scope, in accordance with the development of the system.

The further widening of the scope in 1990 to include pollution and contamination called for additional appropriate terminology which was developed hand-in-hand with the development of ASFA-3: *Aquatic Pollution and Environmental Quality*. This resulted in the production of ASFIS-6, Revision 2 in the year 2000.

As for the previous editions, additions to the terminology for the production of both the ASFIS-6, Revision 3, 2009 and this latest Revision 4 have been based mainly on suggestions received from the international network of ASFIS input centres as well as from other aquatic and fisheries information systems.

Changes have been kept to the strictly necessary in order to keep consistency in the ASFA indexing vocabulary already well established over many years. For additional descriptors or changed descriptors, information is included in their SN giving the year in which their use was initiated as far as possible. Changed descriptors are also cross-referred to corresponding descriptors used in previous years.

As demonstrated by the previous edition, the Thesaurus will continue to exercise its influence over the standardisation of the English terminology relevant to the science and technology of the aquatic environment. It has already been adopted in a variety of emerging national and international information systems.

## 1.4. Field coverage of the ASFIS Thesaurus

The specialised field coverage of the ASFA Thesaurus can be divided into a core area which is treated in depth at very specific levels and peripheral areas requiring less refined treatment and treated only when relevant to the ASFA scope.

### Strictly Core Areas

**Aquatic natural and applied sciences** such as:

Biology	Aquaculture
Ecology	Geology
Environmental sciences	Geophysics
Oceanography	Meteorology and climatology
Limnology	Fisheries sciences

**Technology and Engineering** such as:

Marine technology	Fishing technology
Ship technology	Fish food technology

**Living and non-living resources exploitation and processing**, such as:

Fishable stocks	Cultured stocks
Fishery products	Freshwater from the sea
Energy from the sea	Chemicals from the sea
Minerals from the sea	Oil and gas

**Aquatic pollution and its effects in organisms**

**Aquatic environmental changes, conservation, public health**

**Social, economic and policy relevant aspects**

### Marginal or peripheral areas

**Exact and natural sciences**, such as:

Biology	Chemistry
Mathematics	Physics
Space sciences	Statistical sciences

**Human and social sciences:**

Development sciences	Economics
History	International relations
Pedagogy	Management

**Applied sciences and technologies**

Engineering relevant sciences	Information sciences
Medical sciences	Transport technology
Power technology	Potable and waste water treatment technology

## 2. RULES AND CONVENTIONS

### 2.1. Standardisation and control of terms

In order to allow for coincidence between the indexing language and the searching language the ASFIS Thesaurus includes two types of terms, descriptors and non-descriptors.

*Descriptors* or allowable (permitted) terms are those which have been accepted by the systems for describing a concept and which are therefore used in indexing and consequently also for retrieval. The present version of the ASFIS Thesaurus includes over 6,200 descriptors.

*Non-descriptors* or forbidden (or unauthorised) terms include true synonyms, quasi-synonyms, word forms, different (American) spelling or very specific terms which are grouped for indexing (or retrieval) purposes into a conceptually broader term. They are followed by a USE reference which leads to the relevant descriptor. Therefore they are also known in controlled language systems as "lead-in terms." The present version includes 3,700 non-descriptors.

#### 2.1.1 Spelling rules

The following rules have been followed:

British English rather than American English has been adopted for the descriptors. Where American spelling is used, or where alternative English spellings are available, they have been cross-referred to the preferred descriptors.

#### 2.1.2 Noun and adjective forms

All descriptors have a "substantive" (or "noun") form.

Usually "common" adjectives are pre-coordinated with nouns and entered as compound descriptors to avoid (i) inconsistency in indexing and (ii) false combinations during retrieval, for example: "marine" pre-coordinated in:

MARINE ORGANISMS  
MARINE PARKS  
MARINE POLLUTION  
MARINE TECHNOLOGY, etc.

and "international" pre-coordinated in:

INTERNATIONAL AGREEMENTS  
INTERNATIONAL LAW  
INTERNATIONAL POLICY, etc.

Only a very small proportion of single word terms in adjectival or adverbial form are entered, with the instruction in SN "To be used only as a qualifier." This is for the benefit of practicality and flexibility, for adjectives in recurrent or common use, for example:

ANNUAL, MONTHLY, etc.

Prepositions are avoided in noun phrases (pluriterms), for example: "Technology transfer" instead of "Transfer of technology." The following exceptions were made because the form with the preposition is the most familiar:

LAW OF THE SEA, OIL AND GAS and its compound descriptors, EQUATIONS OF STATE

#### 2.1.3 Singular and plural forms

The general rule adopted is that *plural form* be given preference, whenever possible. It was always adopted for generic processes, phenomena, operations, properties, materials, instruments, entities, for example:

FISHERIES  
BIOLOGICAL PHENOMENA  
CHEMICAL PROPERTIES  
FISH DISEASES  
MEASURING DEVICES

Singular form is used for specific processes, properties and phenomena, specific materials, proper chemical names and disciplinary areas, which are acceptable only in the singular:

DECANTATION  
DENSITY  
GUANO  
GROWTH  
IRIDIUM  
CHEMISTRY

When singular or plural forms of a term imply two different concepts, compound descriptors are used to avoid ambiguities, for example:

"coating" as a process is entered as COATING PROCESSES

"coatings" as an entity is entered as a synonym of COATING MATERIALS.

## 2.1.4 Abbreviations, initials and acronyms

As a general rule, abbreviations for descriptors have been avoided. Exceptions are:

- abbreviations which are universally accepted and do not give rise to misinterpretations, especially when appearing in their clustered structure e.g. DDT, RNA
- if the expanded form of the term is excessively long.

However, the expanded form of the term appears always as a synonym with a cross-reference, or in the scope notes.

## 2.1.5 Alphabetisation

Alphabetisation is based on word-by-word arrangement, according to the following sequences: spaces, special characters (full stop, hyphen, parenthesis) and letter in usual order.

## 2.2. Multiple-word entries

Both single-word descriptors and multiple-word descriptors have been used. Multiple-word entries (consisting of two or more words) are necessary to modify, define or specify scientific and technical concepts. In the field of aquatic sciences, this is particularly needed because the distinct environments (marine, fresh and brackish water) frequently imply particular research disciplines (e.g. MARINE GEOLOGY), different flora and fauna (e.g. FRESHWATER MOLLUSCS), or specialised techniques. (ESTUARINE FISHERIES). Other compound descriptors have been used to express concepts that should not be separated, for example BIOLOGICAL DEVELOPMENT; this helps to overcome retrieval problems associated with high-frequency usage of terms such as BIOLOGY and DEVELOPMENT.

Multiple-word descriptors are mainly entered with the words in their natural order, for example, MARINE POLLUTION and cross-referred to the hidden-words in the descriptors "pollution (marine)" as lead-in-terms. The first word in a multiple-word entry is always used in the singular form and the entry is cross-referred to the non-descriptor (and vice versa) when the plural is also in common use, for example FISHERY MANAGEMENT OF "fisheries management."

## 2.3. Use of characters

### 2.3.1 Character sets

The general rules adopted for the alphabetical structured list follows the following printing format:

- all descriptors are printed in bold font
- all non-descriptors (UF references) are printed in standard font



### 2.3.2 Punctuation

Punctuation marks have been kept to a minimum

- Diacritical marks are avoided
- Prefixes are usually connected to the stem, for example

MICROFORMS  
MICROHABITATS

- Hyphens have been retained only when this is common practice or when omission may alter the meaning of the term, for example:

RHODAMINE B-DYE  
SHORT-CRESTED WAVES  
POLE-LINE FISHING  
AIR-ICE INTERFACE, etc.

and for letter-word combinations, for example:

X-RAY ANALYSIS  
S-WAVES

The space occupied by the hyphen is:

- (i) Left blank for some compound adjectives, noun-noun combinations, where this is common practice, for example:

IN SITU DENSITY

- (ii) dropped in attaching prefixes (adverbs) to the base word (stem), where this is common practice, for example:

NONDESTRUCTIVE TESTING  
MULTISPECIES FISHERIES  
MONOSEX CULTURE

- In previous editions, slash was used but only for the following compound descriptors, because of their common use in the specialized languages:

T/S DIAGRAMS, CARBON/NITROGEN RATIO, CATCH/EFFORT, THORIUM-230/THORIUM-232 DATING, URANIUM-232/URANIUM-238 RATIO and YIELD/RECRUIT

However, in this edition, the slashes have been replaced by hyphens since most computer search engines cannot use the / in a descriptor. These entries are now in the form

T-S DIAGRAMS, CARBON-NITROGEN RATIO etc.

A global search and replace for these indexing terms throughout the complete database is planned so that there will be consistency of search results.

- Periods and commas are used only in scope notes.
- Parentheses are used only for very few descriptors, as specified below, which need parenthetical definition and in non-descriptors resolved by inversion i.e. "reaction (chemical)" use CHEMICAL REACTIONS. Inversion was adopted, in general, with some exceptions, e.g.:

RESERVOIRS (WATER)  
HABITAT IMPROVEMENT (CHEMICAL)  
HABITAT IMPROVEMENT (PHYSICAL)  
HABITAT IMPROVEMENT (FERTILIZATION)

## 3. SELECTION AND DEFINITION OF TERMS

As already mentioned in the introduction the ASFIS controlled vocabulary has developed hand-in-hand with the development of the Aquatic Sciences and Fisheries Abstracts journal. The ASFA indexers suggested terms in accordance with their experience in indexing documents for ASFA entries. The compilers selected among the suggested terms those more frequently requested or those that were considered necessary for indexing at more specific levels. Specialised relevant nomenclature bulletins, dictionaries and thesauri, as listed in the bibliography, were consulted for term selection and definition.

### 3.1. Term Selection

The main sources of term selection were:

- (1) *Aquatic Sciences and Fisheries Thesaurus* (FAO, 1986)
- (2) the indexing of ASFA-3 documents from 1990 to 2000
- (3) the suggestions of ASFA Partners
- (4) Thesauri, Dictionaries and Glossaries as listed in the selected bibliography

### 3.2. Term definition

The inter-relationships given in the Thesaurus supply a kind of definition by grouping terms in their semantic relations. A rough definition of the terms, when this is needed, is given in the scope notes. Usually to:

- restrict the usage of a broad descriptor within the context of the ASFIS system's scope.
- clarify the exact meaning of key specialised terms
- to give the corresponding descriptors used in previous years
- to explain the meaning of certain non-English terms
- to indicate that the descriptor is to be used only as a qualifier
- to recommend, in the case of a few "umbrella terms," i.e. terms with a very broad meaning, to select and use a more specific, or alternative, descriptor, among those listed below as NTs or RTs.

## 4. SPECIFICITY AND PRE-COORDINATION LEVEL

Due to the wide scope of ASFIS which covers three well-defined aquatic environments and bio-ecological as well as physico-chemical oceanographic sciences and technologies, a high level of specificity is necessary to ensure precision performance both at the input and the retrieval stages. To avoid confusion of descriptors which have a different meaning if applied to bio-ecological aspects or to physico-chemical aspects, the pre-coordination of terms by multiword descriptors has been very frequently adopted e.g.

BIOTESTING UF BIOLOGICAL TESTING, to distinguish from more general TESTING procedure etc.

BIOLOGICAL DAMAGE to distinguish from DAMAGE as resulting from accident or fire.

The same pre-coordination level was adopted for the terminology which refers to a specific aquatic environment in order to give to the relevant descriptors more specificity as requested by the specialised technology in use, or by the organisms involved e.g.

AQUACULTURE as broader term, but also MARINE AQUACULTURE, FRESHWATER AQUACULTURE and BRACKISHWATER AQUACULTURE.

Very general descriptors which are too generic or too conceptually broad for precise indexing and retrieval purposes have been included only with the function of recalling under a single generic "umbrella" term, the pre-coordinated specific descriptors among which to select the most relevant one e.g.

CONTROL and EQUIPMENT followed by the hierarchical display of narrower pre-coordinated descriptors or PROPERTIES followed by a non-hierarchical list of pre-coordinated descriptors as related terms.

## 5. COMPUTER LOADING, CHECKING AND DEVELOPMENT

Following automation via the MultiTes Pro software, the Thesaurus was converted and edited by the Freshwater Biological Association leading to this print and online version of the ASFIS Thesaurus.

## 6. THESAURUS CLASSIFICATION, STRUCTURE AND NOTATION

### 6.1. Thesaurus structural relations

As in previous editions, this Thesaurus is structured to display commonly accepted relationships - preferential, hierarchical and affinitive.

### 6.2. Notation

#### 6.2.1 Scope notes

SN (scope note), a rough definition of the scope of the term where this is needed (usually for limitation). Scope notes also indicate the date, year in which additional descriptors to the 1976 version entered into use ("Added in...") and the dates when previous descriptors were changed, in which case indication is also given of descriptors previously used ("Before...search...").

The scope notes of a few "umbrella" terms included in the thesaurus recommend the use of alternative or more specific descriptors as listed below, at hierarchical or related levels.

#### 6.2.2 Alternative relations and synonymy

USE directs the user from a non-descriptor to the relevant descriptor; UF (used for) is the reciprocal relationship to USE.

The USE-UF cross-relationship is used in a variety of situations:

- for synonyms or near synonyms  
*man-made lakes* USE ARTIFICIAL LAKES  
*chorology* USE BIOGEOGRAPHY
- to indicate preference in spelling  
*hematology* USE HAEMATOLOGY
- to designate a mandatory generically broader descriptor  
*coastal aquaculture* USE MARINE AQUACULTURE
- to designate a preferred, closely related, descriptor  
*commercialization* USE MARKETING
- to indicate preferred (natural) word order  
*reactions (chemical)* USE CHEMICAL REACTIONS  
*pollution (marine)* USE MARINE POLLUTION
- to refer from specific commonly-used parameters to the phenomena or properties which they quantify, for example:  
*metabolic rate* USE METABOLISM  
*respiratory quotients* USE RESPIRATION  
*fishing mortality coefficients* USE FISHING MORTALITY

#### 6.2.3 Hierarchical relations

ASFIS Thesaurus includes mainly generic hierarchical relations, in which the generic descriptor (broad term) represents a class of concepts expressed by its specific descriptors (narrower terms).

BT (broader term):	DISEASES (generic)
NT (narrower term):	FISH DISEASES
	PLANT DISEASES

#### 6.2.4 Associative or affinitive relations

The non-hierarchical relations, direct the users to alternative descriptors in the event that the lead descriptor is conceptually inappropriate. They are known as related terms and entered as RT. Related terms in the ASFIS Thesaurus are displayed also:

- to indicate antinomy  
AESTIVATION RT HIBERNATION

- to suggest possible concurrent use of two concepts  
ESCAPEMENT RT MESH SELECTIVITY
- to indicate an affinitive relationship other than hierarchic  
AQUACULTURE RT AQUACULTURE TECHNIQUES (ie. instrumental relationship)  
WATER POLLUTION RT POLLUTION EFFECTS (i.e. cause/effect relationship)

## 7. GUIDELINES FOR TERM SELECTION BY USER

It is difficult to lay down a coherent set of rules for subject indexing where different research disciplines and technologies are involved, but users of this Thesaurus should be aware of certain general considerations:

**Only the essential scientific technical concepts**, which are necessary for retrieval of the document abstracted, should be indexed;

**Be specific** by using the available keyword at the nearest level of specificity.

Example: if a paper deals with migration of juvenile tuna to feeding grounds, do not use MIGRATIONS as descriptor but the more specific keyword FEEDING MIGRATIONS;

**Use a combination of descriptors** where needed, even if this involves the redundancy of using "stem-synonyms."

Example: if a paper deals with mesh selectivity of a certain type of fishing net for fishery regulation purposes, use both relevant descriptors MESH SELECTIVITY and MESH REGULATIONS plus other related descriptors, e.g., TRAWLS;

**Use complimentary descriptors** where needed for a particular aquatic environment (marine, freshwater and brackishwater environment) and its organisms.

- Example: (a) if a paper deals with oyster culture in the Ribadeo estuary, use both descriptors OYSTER CULTURE and BRACKISHWATER AQUACULTURE;
- (b) if a paper deals with the effects of pollution on an oceanic species, use both descriptors MARINE POLLUTION and POLLUTION EFFECTS plus the relevant taxonomic entry;

**Descriptors referring to very broad concepts** - "umbrella" terms - which have been included to facilitate retrieval of the related specific descriptors *should not* be used alone (i.e. without an additional subject descriptor which is more specific, for example:

METHODOLOGY may serve as qualifier for a more specific entry such as SHRIMP CULTURE when the paper dealt with describes methods in use;

**Index always with subject descriptors plus the taxonomic entry** (in the appropriate tag of the Indexing Form) those papers that deal with aquatic animals and plants, for which only vernacular names are given.

- Example: (a) a paper dealing with tuna fishery in the World Ocean should be indexed by the relevant subject descriptors TUNA FISHERIES and PELAGIC FISHERIES plus the taxonomic entry SCOMBRIDAE;
- (b) a paper dealing with carp culture should be indexed by both relevant subject descriptors FRESHWATER AQUACULTURE and CARP CULTURE and CYPRINIDAE or, if present, the specific taxonomic name of the carp species.



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## 9. THESAURUS TERMS

AAS

USE: **Absorption spectroscopy****Abalone culture**

UF: Ormer culture

BT: Gastropod culture

Abalone fisheries

USE: **Gastropod fisheries****Abdomen**

UF: Peritoneum

BT: Body regions

RT: Digestive system

Abiotic diseases

USE: **Environmental diseases****Abiotic factors**

SN: Before 1982 search

ENVIRONMENTAL  
FACTORS

UF: Density-independent factors

BT: Environmental factors

RT: Dissolved oxygen

Light

Salinity

Water temperature

**Ablation**SN: Use only for processes  
resulting in removal and loss of  
ice from glaciers, floating ice,  
etc. For organ ablation use

ORGAN REMOVAL

RT: Air-ice interface

Calving

Evaporation

Glaciers

Ice accretion

Ice caps

Ice islands

Ice melting

Ice shelves

Ice volume

Icebergs

Sublimation

Abnormal organisms

USE: **Abnormalities****Abnormalities**

SN: Restricted to living organisms

UF: Abnormal organisms

Body deformations

Malformations

NT: Genetic abnormalities

Aboriginal fishing

USE: **Indigenous fishing****Absolute age**

UF: Actual age

BT: Age

RT: Radiometric dating

Absolute food deficiency

USE: **Starvation****Absolute humidity**

BT: Humidity

Absolute velocity

USE: **Velocity****Absolute vorticity**

BT: Vorticity

RT: Conservation of vorticity

Coriolis parameters

Relative vorticity

**Absorbance**

BT: Optical properties

RT: Absorption coefficient

Absorption spectra

Light absorption

Wave motion

Absorption (chemistry)

USE: **Sorption**

Absorption (food)

USE: **Food absorption**

Absorption (light)

USE: **Light absorption****Absorption (physics)**

NT: Light absorption

Sound absorption

RT: Amplitude

Attenuation

Reflection

Transmission

Wave motion

Absorption (sound)

USE: **Sound absorption****Absorption coefficient**

SN: Before 1982 search also

ABSORPTIVITY

UF: Absorptivity

RT: Absorbance

Emissivity

Extinction coefficient

Light absorption

Light penetration

Absorption loss

USE: **Transmission loss****Absorption spectra**

BT: Spectra

RT: Absorbance

Absorption spectroscopy

Light absorption

Light penetration

Turbidity

Absorption spectrometry

USE: **Absorption spectroscopy****Absorption spectroscopy**

UF: AAS

Absorption spectrometry

Atomic absorption spectroscopy

BT: Spectroscopic techniques

RT: Absorption spectra

Absorptivity

USE: **Absorption coefficient****Abstracts**

UF: Summaries

RT: Documents

**Abundance**

SN: For population studies use

POPULATION NUMBER if

given in number, or BIOMASS

if given in weight

UF: Relative abundance

RT: Availability

Biomass

Depletion

Population number

Quantitative distribution

Abundance (chemical)

USE: **Chemical composition**

Abuse to animals

USE: **Animal welfare****Abyssal circulation**SN: World-wide deep circulation  
of ocean basins

BT: Ocean circulation

RT: Abyssal currents

Bottom topography effects

Abyssal cones

USE: **Deep-sea fans****Abyssal currents**

BT: Bottom currents

RT: Abyssal circulation

Benthic currents

Abyssal environment

USE: **Abyssal zone****Abyssal hills**

BT: Submarine features

**Abyssal plains**

BT: Submarine features

RT: Continental rise

Ocean basins

Ocean floor

Plains

Sea channels

**Abyssal zone**

SN: Zone below 1000 m depth

UF: Abyssal environment

RT: Abyssobenthic zone

Abyssopelagic zone

Pelagic environment



## ASFA THESAURUS

### **Abyssobenthic zone**

SN: Benthic regions below 1000 m depth  
 BT: Benthic environment  
 RT: Abyssal zone  
 Abyssopelagic zone

### **Abyssopelagic zone**

SN: Pelagic regions below 1000 m depth  
 BT: Oceanic province  
 RT: Abyssal zone  
 Abyssobenthic zone  
 Aphotic zone

### **Acceleration**

NT: Coriolis acceleration  
 RT: Accelerometers  
 Centrifugal force  
 Centripetal force  
 Coriolis force  
 Kinematics  
 Velocity

### **Accelerometers**

BT: Instruments  
 RT: Acceleration  
 Gravity meters  
 Seismometers  
 Transducers  
 Wave recorders

### **Acceptability**

RT: Acceptance tests  
 Evaluation  
 Inspection  
 Performance assessment  
 Quality  
 Reliability  
 Standards  
 Testing

### **Acceptance tests**

BT: Tests  
 RT: Acceptability  
 Quality control

### **Access**

NT: Public access

Accessory respiratory organs

USE: **Respiratory organs**

### **Accident prevention**

BT: Health and safety  
 RT: Accidents  
 Protection  
 Safety devices  
 Safety regulations

### **Accidents**

UF: Disasters (man-made)  
 Man-made disasters  
 NT: Chemical spills  
 Collisions  
 Diving accidents

Marine accidents

Oil spills

Radiation leaks

RT: Accident prevention

Damage

Damage assessment

Disasters

Emergencies

Hazards

Injuries

Search and rescue

### **Acclimation**

SN: Adjustment of aquatic organisms to conditions in the laboratory  
 BT: Adaptations  
 RT: Acclimatization  
 Captivity

### **Acclimatization**

SN: Adjustment of organisms to conditions in the aquatic environment  
 UF: Adaptations (physiological)  
 Physiological adaptations  
 BT: Adaptations  
 RT: Acclimation  
 Captivity

### **Accommodation**

UF: Living quarters  
 RT: Offshore structures  
 Underwater habitats

Accreting plate boundaries

USE: **Diverging plate boundaries**

### **Accretion**

UF: Aggradation  
 NT: Beach accretion  
 Crustal accretion  
 Ice accretion  
 RT: Sedimentation

### **Accumulation**

NT: Bioaccumulation  
 Ion accumulation  
 RT: Fate

Accumulation of ions

USE: **Ion accumulation**

Accumulation of sediments

USE: **Sedimentation**

### **Accuracy**

RT: Calibration  
 Measurement  
 Reliability  
 Resolution  
 Tests

### **Acetate**

BT: Carboxylic acid salts

### **Acetone**

BT: Ketones

Acetylcholine

USE: **Neurotransmitters**

Acetylene

USE: **Ethyne**

### **Acid mine drainage**

SN: Drainage of water from areas that have been mined for coal or other mineral ores. The water has a low pH because of its contact with sulfur-bearing material  
 BT: Drainage water  
 RT: Chemical reactions  
 Environmental impact  
 Mining  
 pH  
 Water pollution

Acid precipitation

USE: **Acid rain**

### **Acid rain**

SN: Precipitation having a pH Below 5.6 due to high concentrations of sulphate, nitrate, ammonium or other anions  
 UF: Acid precipitation  
 BT: Rain  
 RT: Acidity  
 Freshwater pollution

### **Acidification**

RT: Acidity  
 Acids  
 pH

### **Acidity**

BT: Chemical properties  
 RT: Acid rain  
 Acidification  
 Acids  
 Alkalinity  
 Buffers  
 pH  
 pH effects

### **Acids**

SN: Use of a more specific term is recommended  
 NT: Inorganic acids  
 Organic acids  
 RT: Acidification  
 Acidity

Acoustic analogs

USE: **Acoustic models**

### **Acoustic arrays**

BT: Arrays  
 NT: Sonar arrays  
 Transducer arrays

## ASFA THESAURUS

- Transponder arrays  
RT: Acoustic equipment  
Seismic arrays
- Acoustic baffles  
USE: **Acoustic insulation**
- Acoustic beacons**  
BT: Navigational aids  
RT: Acoustic equipment  
Acoustic navigation  
Acoustic transponders  
Dynamic positioning  
Positioning systems
- Acoustic cavitation  
USE: **Cavitation**
- Acoustic channels  
USE: **Sound channels**
- Acoustic command systems**  
RT: Acoustic equipment  
Acoustic telemetry  
Acoustic transponders  
Remote control
- Acoustic current meters**  
BT: Current meters  
RT: Eulerian current measurement
- Acoustic data**  
BT: Data
- Acoustic detection  
USE: **Sonar detection**
- Acoustic devices  
USE: **Acoustic equipment**
- Acoustic direction finding  
USE: **Echo ranging**
- Acoustic distance measurement  
USE: **Echo ranging**
- Acoustic doppler sonar  
USE: **Doppler sonar**
- Acoustic emission**  
RT: Nondestructive testing
- Acoustic emission testing  
USE: **Nondestructive testing**
- Acoustic equipment**  
UF: Acoustic devices  
Acoustic systems  
Instruments (acoustic)  
BT: Equipment  
NT: Acoustic transducers  
Acoustic transponders  
Echosounders  
Electroacoustic devices  
Net sounders  
Sound generators  
RT: Acoustic arrays
- Acoustic beacons  
Acoustic command systems  
Acoustic release mechanisms  
Acoustic tracking systems  
Acoustics  
Echo integrators  
Electronic equipment  
Fish counters  
Sonar  
Sonar receivers  
Sonar targets  
Sonic tags  
Sound recorders  
Sound waves
- Acoustic generators  
USE: **Sound generators**
- Acoustic holography**  
BT: Acoustic imagery  
Holography  
RT: Acoustic tomography
- Acoustic imagery**  
UF: Acoustic sensing  
BT: Imagery  
NT: Acoustic holography  
Acoustic tomography  
Sonar imagery  
RT: Acoustic images  
Sodar
- Acoustic images**  
RT: Acoustic imagery
- Acoustic impedance**  
BT: Impedance  
RT: Acoustic properties  
Sound velocity
- Acoustic insulation**  
UF: Acoustic baffles  
Baffles (sound)  
Sound baffles  
Sound insulation  
BT: Insulating materials  
RT: Acoustic properties  
Noise reduction  
Sound absorption  
Suppressors
- Acoustic intensity  
USE: **Sound intensity**
- Acoustic measurement  
USE: **Sound measurement**
- Acoustic models**  
UF: Acoustic analogs  
BT: Analog models  
RT: Acoustics
- Acoustic navigation**  
UF: Sonar navigation  
Transponder navigation  
BT: Navigation  
NT: Doppler navigation
- RT: Acoustic beacons  
Navigation underwater  
Sonar
- Acoustic pingers  
USE: **Pingers**
- Acoustic properties**  
UF: Sound properties  
BT: Physical properties  
RT: Acoustic impedance  
Acoustic insulation  
Acoustics  
Cavitation  
Sound attenuation  
Sound intensity  
Sound velocity
- Acoustic radiators  
USE: **Sound generators**
- Acoustic release mechanisms**  
BT: Release mechanisms  
RT: Acoustic equipment
- Acoustic sensing  
USE: **Acoustic imagery**
- Acoustic sizing techniques  
USE: **Fish sizing**
- Acoustic spectra  
USE: **Sound spectra**
- Acoustic stratigraphy  
USE: **Seismic stratigraphy**
- Acoustic surveys  
USE: **Echo surveys**
- Acoustic surveys (atmosphere)  
USE: **Sodar**
- Acoustic systems  
USE: **Acoustic equipment**
- Acoustic tags  
USE: **Sonic tags**
- Acoustic telemetry**  
BT: Telemetry  
RT: Acoustic command systems  
Acoustic tracking systems
- Acoustic tomography**  
BT: Acoustic imagery  
RT: Acoustic holography  
Tomography
- Acoustic tracking  
USE: **Tracking**
- Acoustic tracking systems**  
UF: Underwater tracking systems  
BT: Detectors  
RT: Acoustic equipment  
Acoustic telemetry

## ASFA THESAURUS

Active sonar  
Echo ranging  
Navigation underwater

### Acoustic transducers

BT: Acoustic equipment  
Transducers  
NT: Hydrophones  
Microphones  
Sonar transducers  
RT: Electroacoustic devices  
Piezoelectric transducers

### Acoustic transponders

UF: Beacons (transponders)  
Sonar transponders  
BT: Acoustic equipment  
Transponders  
RT: Acoustic beacons  
Acoustic command systems  
Swallow floats

Acoustic wave absorption  
USE: **Sound absorption**

Acoustic wave attenuation  
USE: **Sound attenuation**

Acoustic wave diffraction  
USE: **Sound diffraction**

Acoustic wave dispersion  
USE: **Sound dispersion**

Acoustic wave propagation  
USE: **Sound propagation**

Acoustic wave reflection  
USE: **Sound reflection**

Acoustic wave refraction  
USE: **Sound refraction**

Acoustic wave scattering  
USE: **Sound scattering**

Acoustic wave transmission  
USE: **Sound transmission**

Acoustic waves  
USE: **Sound waves**

### Acoustics

UF: Underwater acoustics  
BT: Physics  
NT: Bioacoustics  
Ultrasonics  
RT: Acoustic equipment  
Acoustic models  
Acoustic properties  
Echoes  
Sound  
Sound channels  
Sound recorders  
Sound waves

### Acquisition

NT: Data acquisition  
RT: Purchasing

### Acronyms

RT: Terminology

### Acrylic acid

BT: Organic acids

### Acrylics

BT: Plastics

### Actin

SN: Before 1982 search  
PROTEINS  
BT: Proteins  
RT: Muscles

### Actinide compounds

BT: Chemical compounds  
NT: Thorium compounds  
Uranium compounds  
RT: Actinides

### Actinides

BT: Rare earths  
NT: Actinium  
Americium  
Californium  
Curium  
Neptunium  
Plutonium  
Protactinium  
Thorium  
Uranium  
RT: Actinide compounds  
Transition elements

### Actinium

BT: Actinides  
RT: Radioactivity

### Actinometers

UF: Pyranometers  
Pyrgometers  
BT: Radiometers  
RT: Meteorological instruments

### Activated sludge

USE: **Sludge**

### Activation analysis

BT: Analytical techniques  
NT: Neutron activation analysis

### Active margins

UF: Convergent margins  
Seismic margins  
BT: Continental margins  
RT: Earthquakes  
Forearc basins  
Marginal basins  
Orogeny  
Plate boundaries  
Plate convergence  
Plate margins

Subduction  
Volcanism

### Active sonar

BT: Sonar  
NT: Doppler sonar  
Multibeam sonar  
Side scan sonar  
RT: Acoustic tracking systems  
Echo ranging  
Echosounders  
Insonification  
Sonographs

### Activity coefficient

USE: **Thermodynamic activity**

### Activity patterns

UF: Activity rhythms  
RT: Behaviour  
Biological rhythms  
Feeding  
Local movements  
Locomotion  
Migrations  
Segregation

### Activity rhythms

USE: **Activity patterns**

### Actual age

USE: **Absolute age**

### Acyclic hydrocarbons

UF: Branched chain saturated  
hydrocarbons  
Straight chain saturated  
hydrocarbons  
BT: Saturated hydrocarbons  
NT: Butane  
Ethane  
Methane  
Propane

### Adaptations

SN: Use of a more specific term is  
recommended  
BT: Biological phenomena  
NT: Acclimation  
Acclimatization  
Camouflage  
Chromatic adaptations  
Mimicry  
Osmotic adaptations  
RT: Behaviour  
Biological traits  
Ecotypes  
Synecology  
Tolerance

### Adaptations (physiological)

USE: **Acclimatization**

### Adaptive colouration

USE: **Mimicry**

## ASFA THESAURUS

Additional catch  
USE: **By catch**

### **Additives**

UF: Modifiers  
NT: Food additives  
RT: Agents

Adenosine diphosphate  
USE: **ADP**

Adenosine monophosphate  
USE: **AMP**

Adenosine triphosphate  
USE: **ATP**

### **Adhesion**

UF: Bonding  
RT: Adhesives  
Surface properties

### **Adhesives**

UF: Binders (adhesives)  
Cements (adhesives)  
Rubber (adhesives)  
NT: Fish glue  
RT: Adhesion  
Epoxy resins

Adiabatic cooling  
USE: **Adiabatic processes**

Adiabatic heating  
USE: **Adiabatic processes**

Adiabatic lapse rates  
USE: **Temperature gradients**

### **Adiabatic processes**

UF: Adiabatic cooling  
Adiabatic heating  
BT: Isothermal processes  
RT: Potential density  
Potential temperature  
Thermodynamics

Adiabatic temperature gradient  
USE: **Temperature gradients**

### **Adipose tissue**

UF: Adipose tissues  
Body fat  
BT: Tissues  
NT: Blubber  
RT: Body conditions  
Body shape  
Body size  
Body weight  
Lipids

Adipose tissues  
USE: **Adipose tissue**

Adjacent seas  
USE: **Marginal seas**

Administration  
USE: **Management**

### **ADP**

UF: Adenosine diphosphate  
BT: Nucleotides  
Phosphates

### **Adrenal glands**

SN: Before 1982 search  
ENDOCRINE GLANDS  
UF: Suprarenal glands  
BT: Endocrine glands  
RT: Kidneys

Adsorbents

USE: **Adsorption**

### **Adsorption**

SN: The taking up of one  
substance at the surface of  
another  
UF: Adsorbents  
BT: Sorption  
RT: Chromatographic techniques  
Diffusion  
Drying  
Exchange capacity  
Oil removal  
Oil water separation  
Osmosis  
Separation  
Surface properties

### **Adults**

BT: Developmental stages  
RT: Sexual maturity

### **Advection**

SN: Process of transport of  
property by mass motion  
UF: Marine advection  
BT: Transport processes  
NT: Convection  
Horizontal advection  
Salt advection  
Vertical advection  
RT: Circulation  
Convergence zones  
Heat transport  
Oceanic convergences

Advection fog

USE: **Fog**

Advertisements

USE: **Publicity material**

Aeolian deposits

USE: **Eolian deposits**

Aeolian dust

USE: **Eolian dust**

Aeolian processes

USE: **Eolian processes**

Aeolian transport  
USE: **Eolian transport**

### **Aeration**

NT: Artificial aeration  
Bioaeration  
RT: Air  
Air bubbles  
Bubbling  
Dissolved oxygen  
Mixing processes  
Oxygenation  
Self purification  
Separation  
Sewage treatment  
Sludge treatment  
Water circulation  
Water filtration  
Water mixing  
Water treatment

Aerial exposure

USE: **Air exposure**

### **Aerial photographs**

SN: Before 1982 search AERIAL  
PHOTOGRAPHY  
BT: Photographs  
RT: Aerial photography  
Satellite mosaics

### **Aerial photography**

BT: Photography  
NT: Satellite photography  
RT: Aerial photographs  
Aerial surveys  
Airborne sensing  
Stereophotography

### **Aerial surveys**

BT: Surveys  
RT: Aerial photography  
Airborne sensing  
Fishery surveys  
Survey design

### **Aerobic bacteria**

BT: Bacteria  
RT: Self purification

Aerobic conditions

USE: **Oxic conditions**

### **Aerobic respiration**

BT: Respiration  
RT: Anoxia  
Biochemical oxygen demand  
Compensation depth  
Dissolved oxygen  
Gills  
Lungs  
Oxygen consumption  
Respirometers

Aerobic sediments

USE: **Oxic sediments**

ASFA THESAURUS

**Aerodynamics**

BT: Fluid dynamics

**Aeromagnetic surveys**

BT: Surveys  
RT: Airborne sensing  
Geomagnetic field  
Magnetic exploration

Aeronomy

USE: **Atmospheric physics**

**Aerosols**

UF: Atmospheric aerosols  
Continental aerosols  
Marine aerosols  
BT: Colloids  
NT: Radioactive aerosols  
RT: Air pollution  
Atmospheric particulates  
Bubble bursting  
Turbidity

**Aestivation**

RT: Animal physiology  
Body temperature  
Dormancy  
Ecophysiology  
Environmental effects  
Heat balance  
Hibernation  
Metabolism  
Plant physiology  
Temperature tolerance  
Thermoregulation

**Aetiology**

SN: The medical study of the causation of diseases  
UF: Etiology  
BT: Medicine  
RT: Disease control  
Disease detection  
Diseases

Afferent nerves

USE: **Nerves**

Affluents

USE: **Tributaries**

**Agar**

BT: Seaweed products  
RT: Alginates  
Carbohydrates  
Carrageenins  
Colloids  
Polysaccharides

**Agarose**

BT: Polysaccharides

**Age**

UF: Age of seawater  
Age of tide  
Earth age  
Wave age

NT: Absolute age  
Biological age

RT: Age determination

Aging  
Geochronometry  
Residence time

Age (biological)

USE: **Biological age**

Age (organisms)

USE: **Biological age**

Age at first maturity

USE: **Age at recruitment**

**Age at recruitment**

SN: Age at which fish are recruited as fishable stock  
UF: Age at first maturity  
BT: Biological age  
RT: Age composition  
Recruitment

**Age composition**

SN: Year-class frequencies  
BT: Population structure  
RT: Age at recruitment  
Age determination  
Age groups  
Biological aging  
Size distribution  
Year class

**Age determination**

SN: Restricted to age determination in aquatic organisms. For physical purpose use GEOCHRONOMETRY

Before 1982 search also

AGEING METHODS

UF: Biological dating  
Dating (biological)  
Organism dating

NT: Otolith reading

Scale reading

RT: Age

Age composition

Age groups

Biological aging

Fossils

Growth

Longevity

Age determination (earth sciences)

USE: **Geochronometry**

**Age grading**

SN: Before 2016 search GRADING + BIOLOGICAL

AGE

BT: Biological grading

**Age groups**

SN: A group of fish at a given age. Before 1982 search AGE COMPOSITION

RT: Age composition  
Age determination

Age length relationships

USE: **Growth curves**

Age of seawater

USE: **Age**

Age of tide

USE: **Age**

Ageing

USE: **Aging**

Ageing (biological)

USE: **Biological aging**

**Agents**

SN: Use of a more specific term is recommended

NT: Anticoagulants  
Antifouling substances

Antifreezes

Anthelmintic agents

Antioxidants

Antiparasitic agents

Antitumour agents

Antiviral agents

Catalysts

Coagulants

Dispersants

Inhibitors

Mutagens

Preservatives

Solvents

Surfactants

RT: Additives

Biocides

**Ageostrophic flow**

BT: Fluid flow

RT: Geostrophic flow

Geostrophy

**Agglutinins**

UF: Haemagglutinins

BT: Antibodies

RT: Bacteria

Blood cells

Aggradation

USE: **Accretion**

**Aggregates**

SN: Sand and gravel dredged and used as construction material

BT: Seabed deposits

RT: Aggregation

Gravel

Quarries

Sand

Sediments

**Aggregation**

RT: Aggregates

## ASFA THESAURUS

Aggregations (ecological)

USE: **Ecological aggregations**

Aggregations (organisms)

USE: **Organism aggregations**

Aggression

USE: **Aggressive behaviour**

**Aggressive behaviour**

SN: Before 1982 search

AGONISTIC BEHAVIOUR

UF: Aggression

Aggressive mimicry

BT: Behaviour

RT: Agonistic behaviour

Pecking order

Territoriality

Aggressive mimicry

USE: **Aggressive behaviour**

**Aging**

SN: Before 1982 search also

AGEING Use of a more specific term is recommended

UF: Ageing

NT: Biological aging

RT: Age

Aging (biological)

USE: **Biological aging**

**Agonistic behaviour**

SN: Animal behaviour including threatening behaviour, posturing, and fleeing

BT: Behaviour

RT: Aggressive behaviour

Display behaviour

**Agreements**

NT: Fishery agreements

International agreements

**Agricultural pollution**

BT: Pollution

RT: Agricultural runoff

Agricultural wastes

Agriculture

Chemical pollution

**Agricultural runoff**

UF: Runoff from agricultural land

BT: Runoff

RT: Agricultural pollution

Agriculture

**Agricultural wastes**

UF: Farm wastes

BT: Wastes

RT: Agricultural pollution

Hazardous materials

Waste disposal

**Agriculture**

UF: Life sciences (agriculture)

RT: Agricultural pollution

Agricultural runoff

Agropisciculture

Irrigation

Land management

**Agropisciculture**

SN: Combination or alternation of agriculture and freshwater aquaculture

UF: Chicken-fish culture

Duck-fish culture

Fish-cum-chicken culture

Fish-cum-duck culture

Fish-cum-pig culture

Integrated agriculture

Pig-fish culture

Pig farms

NT: Rice field aquaculture

RT: Agriculture

Aquaculture techniques

Aquaponics

Fish culture

Freshwater aquaculture

Frog culture

Plant culture

Pond culture

**Aid**

NT: Fishery aid

Food aid

**Air**

RT: Aeration

Air bubbles

Air conditioning

Air pollution

Air temperature

Earth atmosphere

Gases

Oxygen

Air-deployed expendable

bathythermographs

USE: **AXBTs**

**Air-ice interface**

UF: Ice-air interface

BT: Interfaces

RT: Ablation

Evaporation

Heat exchange

Ice

Ice caps

**Air-sea coupling**

RT: Air-sea interaction

Meteorology

Ocean-atmosphere system

Ocean-ice-atmosphere system

Air-sea exchanges

USE: **Air-water exchanges**

**Air-sea interaction**

BT: Interactions

RT: Air-sea coupling

Air-water exchanges

Air-water interface

Meteorology

Ocean-atmosphere system

Sea surface

Teleconnections

Air-sea transfer

USE: **Air-water exchanges**

Air-water boundary layer

USE: **Atmospheric boundary layer**

**Air-water exchanges**

UF: Air-sea exchanges

Air-sea transfer

Sea-air exchanges

Water-air exchanges

RT: Air-sea interaction

Air-water interface

Air-water temperature

difference

Bowen ratio

Bubble bursting

Energy transfer

Evaporation

Gas exchange

Heat exchange

Moisture transfer

Momentum transfer

Ocean-atmosphere system

Surface chemistry

**Air-water interface**

UF: Naviface

BT: Interfaces

RT: Air-sea interaction

Air-water exchanges

Air-water temperature

difference

Air bubbles

Atmospheric boundary layer

Energy transfer

Evaporation

Gas exchange

Heat exchange

Light reflection

Light refraction

Moisture transfer

Momentum transfer

Oceanic boundary layer

Reflectance

Reflected global radiation

Sea surface

Surface microlayer

Surface properties

Surface radiation temperature

**Air-water temperature difference**

BT: Temperature differences

RT: Air-water exchanges

Air-water interface

Air bladder

USE: **Swim bladder**

## ASFA THESAURUS

### **Air breathing fish**

BT: Fish

### **Air bubbles**

BT: Bubbles

RT: Aeration

Air

Air-water interface

Capillarity

Foams

Air compressors

USE: **Compressors**

### **Air conditioning**

RT: Air

Ventilation

Air contamination

USE: **Air pollution**

Air cushion vehicles

USE: **Hovercraft**

### **Air exposure**

UF: Aerial exposure

Exposure to air

RT: Exposure tolerance

Intertidal environment

### **Air flow over land**

BT: Flow over surfaces

RT: Atmospheric motion

### **Air flow over water**

UF: Flow over water surface

BT: Flow over surfaces

RT: Atmospheric motion

Wind-wave interaction

Wind wave generation

### **Air guns**

BT: Seismic energy sources

### **Air masses**

NT: Polar air masses

RT: Atmospheric disturbances

Atmospheric fronts

Frontogenesis

Air motion

USE: **Atmospheric motion**

Air poisoning

USE: **Air pollution**

### **Air pollution**

SN: Including its effects on aquatic environment

UF: Air contamination

Air poisoning

Atmospheric pollution

BT: Pollution

RT: Aerosols

Air

Air sampling

Anthropogenic factors

Atmospheric chemistry

Atmospheric particulates

Climatic changes

Dust

Fallout

Fly ash

Haze

Smoke

Air pumps

USE: **Pumps**

### **Air sampling**

BT: Sampling

RT: Air pollution

Atmospheric chemistry

Atmospheric particulates

### **Air temperature**

UF: Dry bulb temperature

BT: Temperature

RT: Air

Cold season

Evaporation

Isotherms

Potential temperature

Radiosondes

Southern oscillation

Storage conditions

Troposphere

Weather

### **Air transportation**

SN: Carriage of passengers and goods by air

BT: Transportation

RT: Aircraft

Hovercraft

### **Airborne equipment**

UF: Aircraft equipment

BT: Equipment

RT: Airborne sensing

Aircraft

AXBTs

Electronic equipment

Surveying equipment

Airborne remote sensing

USE: **Airborne sensing**

### **Airborne sensing**

SN: Employing equipment carried by low flying aircraft and helicopters

UF: Airborne remote sensing

BT: Geosensing

RT: Aerial photography

Aerial surveys

Aeromagnetic surveys

Airborne equipment

Aircraft

### **Aircraft**

BT: Vehicles

NT: Helicopters

RT: Air transportation

Airborne equipment

Airborne sensing

Airports

Hovercraft

Aircraft equipment

USE: **Airborne equipment**

### **Airports**

RT: Aircraft

Airy waves

USE: **Linear waves**

### **Alanine**

BT: Amino acids

### **Alarm substances**

RT: Chemoreception

Olfaction

### **Alarm systems**

UF: Warning devices

BT: Warning systems

NT: Distress signals

RT: Detectors

Safety devices

Albacore fisheries

USE: **Tuna fisheries**

### **Albedo**

RT: Ratios

Reflectance

Reflection

Solar radiation

Surface properties

### **Albinism**

SN: Complete or almost complete absence of pigment in aquatic organisms

RT: Chromatic pigments

Genetic abnormalities

### **Albumins**

SN: Before 1980 search

PROTEINS

UF: Ovalbumin

Serum albumins

BT: Proteins

RT: Bird eggs

Blood

### **Alcohols**

BT: Organic compounds

NT: Choline

Glycerol

RT: Carbohydrates

Sterols

### **Aldehydes**

BT: Organic compounds

RT: Arabinose

Glucose

Mannose

Ribose

Xylose

**Aldrin**  
 BT: Chlorinated hydrocarbons  
 RT: Insecticides

Alerting systems  
 USE: **Warning systems**

**Algae**  
 SN: Before 2016 search also as a taxonomic descriptor  
 NT: Diatoms  
 Soil algae  
 Zooxanthellae  
 RT: Algal blooms  
 Algal culture  
 Algal mats  
 Algal settlements  
 Marine plants  
 Microorganisms  
 Seaweed culture  
 Seaweeds  
 Stromatolites

Algae (soil)  
 USE: **Soil algae**

Algae culture  
 USE: **Algal culture**

Algae resources  
 USE: **Botanical resources**

**Algal blooms**  
 UF: Plankton blooms  
 Sea blooms  
 Water blooms  
 BT: Blooms  
 RT: Algae  
 Biological poisons  
 Marine snow  
 Microorganisms  
 Mortality causes  
 Phytoplankton  
 Primary production  
 Red tides

**Algal culture**  
 SN: Applies only to culture of aquatic microscopic algae. For culture of macroscopic algae use Seaweed culture  
 UF: Algae culture  
 Algiculture  
 Microalgae culture  
 BT: Cultures  
 NT: Phytoplankton culture  
 RT: Algae  
 Brackishwater aquaculture  
 Culture tanks  
 Freshwater aquaculture  
 Marine aquaculture  
 Mass culture  
 Spores

**Algal mats**  
 BT: Biogenic sedimentary structures  
 RT: Algae  
 Microbial mats  
 Stromatolites

**Algal settlements**  
 BT: Biological settlement  
 RT: Algae  
 Artificial substrata  
 Settling behaviour  
 Substrate preferences

**Algicides**  
 BT: Pesticides  
 RT: Herbicides  
 Soil algae  
 Toxicants

Algiculture  
 USE: **Algal culture**

**Alginates**  
 SN: Industrial product derived from brown algae  
 UF: Seaweed meal  
 BT: Seaweed products  
 RT: Agar  
 Carrageenins  
 Kelps  
 Organic acids

**Alginic acid**  
 BT: Polysaccharides  
 RT: Amino acids

**Algologists**  
 UF: Phycologists  
 BT: Biologists  
 RT: Algology  
 Fishery biologists  
 Taxonomists

**Algology**  
 UF: Phycology  
 BT: Botany  
 RT: Algologists  
 Aquatic plants  
 Hydrobiology  
 Marine sciences  
 Phytobenthos  
 Phytoplankton  
 Plant physiology  
 Soil algae

**Algorithms**  
 RT: Computer programs  
 Mathematical models  
 Numerical analysis

**Alicyclic hydrocarbons**  
 BT: Saturated hydrocarbons

Alien species  
 USE: **Introduced species**

**Alimentary organs**  
 BT: Animal organs  
 Digestive system  
 NT: Intestines  
 Lophophores  
 Pyloric caeca  
 Stomach  
 RT: Digestive glands  
 Mouth parts  
 Radulae

Aliphatic hydrocarbons  
 USE: **Saturated hydrocarbons**

**Alkali basalts**  
 BT: Basalts  
 RT: Pyroxenes

**Alkali metal compounds**  
 BT: Chemical compounds  
 NT: Lithium compounds  
 Potassium compounds  
 Sodium compounds

**Alkali metals**  
 BT: Metals  
 NT: Caesium  
 Lithium  
 Potassium  
 Rubidium  
 Sodium

**Alkaline earth metal compounds**  
 BT: Chemical compounds  
 NT: Barium compounds  
 Calcium compounds  
 Magnesium compounds  
 RT: Alkaline earth metals

**Alkaline earth metals**  
 BT: Metals  
 NT: Barium  
 Beryllium  
 Calcium  
 Magnesium  
 Radium  
 Strontium  
 Yttrium  
 RT: Alkaline earth metal compounds

**Alkalinity**  
 SN: For a pH above 7  
 UF: Causticity  
 BT: Chemical properties  
 RT: Acidity  
 Buffers  
 pH  
 pH effects  
 Water hardness

**Alkaloids**  
 BT: Organic compounds  
 RT: Aquatic plants  
 Drugs



## ASFA THESAURUS

- Alkanes  
USE: **Saturated hydrocarbons**
- Alkenes**  
BT: Unsaturated hydrocarbons  
NT: Ethene
- Alkynes**  
BT: Unsaturated hydrocarbons  
NT: Ethyne
- Alleles**  
SN: (Genes for) paired characteristics. Before 2008 search ALLELLES  
UF: Alleles  
BT: Genes  
RT: Gene pool
- Alleles  
USE: **Alleles**
- Allelochemicals**  
SN: A chemical released by one species that influences the physiology or behaviour of a different species  
UF: Allelochemicals  
BT: Metabolites  
RT: Allelopathy  
Chemical defence  
Defence mechanisms  
Protective behaviour
- Allelochemicals  
USE: **Allelochemicals**
- Allelopathy**  
SN: Chemical inhibition of one species by another through the release of the “inhibitory” chemical into the environment where it affects the development and growth of neighbouring plants.  
BT: Chemical defence  
RT: Allelochemicals
- Allergens**  
BT: Antigens  
RT: Allergic reactions  
Seafood  
Shellfish
- Allergic reactions**  
UF: Allergies  
BT: Biological phenomena  
RT: Allergens  
Food poisoning  
Histamines  
Immunology  
Poisonous organisms  
Toxicity
- Allergies  
USE: **Allergic reactions**
- Alligator culture  
USE: **Reptile culture**
- Allocation systems**  
SN: Restricted to fisheries for division of a total catch between participants in the fishery  
UF: International allocation  
National allocation  
RT: Exclusive economic zone  
Fishery policy  
Shared stocks
- Allochthonous deposits**  
RT: Autochthonous deposits  
Eolian deposits  
Extraterrestrial material  
Glacial deposits  
Sediments  
Volcanic rocks
- Allometry**  
SN: Size-dependence of metabolic processes  
RT: Metabolism
- Allopatric populations**  
SN: Populations of a same species living in different geographic areas  
RT: Geographical distribution  
Sympatric populations
- Allowable catch  
USE: **Total allowable catch**
- Alloys**  
UF: Metals (materials)  
BT: Materials  
NT: Ferrous alloys  
Nonferrous alloys  
RT: Chemical elements  
Metallurgy  
Metals
- Allozymes**  
SN: Enzymes with allelic variants  
BT: Enzymes
- Alluvial deposits**  
UF: Alluvium  
BT: Sediments  
RT: Alluvial fans  
Alluvial terraces  
Clastics  
Deltas  
Flood plains  
Fluvial morphology  
Fluvial sedimentation  
Fluvial transport  
Levees
- Alluvial fans**  
BT: Fans  
Landforms  
RT: Alluvial deposits
- Alluvial terraces  
Deep-sea fans  
Deposition features  
Fluvial features
- Alluvial terraces**  
BT: Landforms  
Terraces  
RT: Alluvial deposits  
Alluvial fans  
River valleys
- Alluvium  
USE: **Alluvial deposits**
- Almanacs**  
BT: Tables  
NT: Nautical almanacs
- Alpha spectroscopy  
USE: **Spectroscopic techniques**
- Alternate reproduction**  
SN: Alternation of generations  
BT: Reproduction  
RT: Sporophytes
- Alternative name  
USE: **Synonymy**
- Altimeters**  
BT: Measuring devices  
NT: Laser altimeters  
Radar altimeters  
RT: Altimetry  
Height
- Altimetry**  
UF: Laser altimetry  
NT: Radar altimetry  
Satellite altimetry  
RT: Altimeters  
Height
- Altitude  
USE: **Height**
- Aluminium**  
UF: Aluminum  
BT: Nonmetals  
RT: Aluminium compounds  
Bauxite  
Ferromanganese nodules
- Aluminium compounds**  
BT: Chemical compounds  
RT: Aluminium  
Silicon compounds
- Aluminum  
USE: **Aluminium**
- Ambient noise**  
UF: Background noise (sound)  
Underwater ambient noise  
BT: Noise (sound)  
NT: Biological noise

## ASFA THESAURUS

Sediment noise  
Shipping noise  
Surface noise  
RT: Passive sonar  
Underwater noise

### **Americium**

BT: Actinides  
Transuranic elements  
RT: Americium isotopes

### **Americium isotopes**

BT: Isotopes  
RT: Americium

### **Amination**

BT: Chemical reactions  
RT: Deamination

### **Amines**

BT: Organic compounds  
NT: Hexosamines  
Hydroxylamines  
Nitrosamines  
Pyrrolidine  
RT: Amino acids

### **Amino acid sequence**

RT: Amino acids

### **Amino acids**

BT: Organic acids  
NT: Alanine  
Arginine  
Aspartic acid  
Cysteine  
Cystine  
Glutamic acid  
Glycine  
Leucine  
Lysine  
Methionine  
Ornithine  
Phenylalanine  
Proline  
Serine  
Threonine  
Tyrosine  
Valine  
RT: Alginic acid  
Amines  
Amino acid sequence  
Nitrogen compounds  
Organic constituents  
Peptides  
Protein synthesis  
Proteins

### **Ammocetes**

USE: **Fish larvae**

### **Ammonia**

UF: Ammonium salts  
BT: Nitrogen compounds  
RT: Ammonium compounds  
Gases  
Nitrogen cycle

Nitrogen fixation  
Urea  
Volatile compounds

### **Ammonium**

USE: **Ammonium compounds**

### **Ammonium chloride**

BT: Ammonium compounds  
Chlorides

### **Ammonium compounds**

SN: Before 1986 search also  
AMMONIUM  
UF: Ammonium  
NT: Ammonium chloride  
RT: Ammonia

### **Ammonium salts**

USE: **Ammonia**

### **Amoebocytes**

SN: Before 1982 search CELLS  
BT: Cells  
RT: Body fluids  
Coelom  
Phagocytosis

### **AMP**

UF: Adenosine monophosphate  
BT: Nucleotides  
Phosphates

### **Amperometric titration**

USE: **Titration**

### **Amphibian culture**

USE: **Frog culture**

### **Amphibiotic species**

SN: Species that are aquatic  
during one part of the life cycle  
and terrestrial during the rest of  
the life cycle  
BT: Species  
RT: Aquatic organisms

### **Amphibious vehicles**

BT: Vehicles  
RT: Hovercraft

### **Amphiboles**

BT: Silicate minerals

### **Amphibolite facies**

BT: Metamorphic facies  
RT: Amphibolites

### **Amphibolites**

UF: Hornblende  
BT: Metamorphic rocks  
RT: Amphibolite facies

### **Amphidromes**

USE: **Amphidromic systems**

### **Amphidromic point**

USE: **Amphidromic systems**

### **Amphidromic systems**

UF: Amphidromes  
Amphidromic point  
RT: Cotidal lines

### **Amphihaline fish**

USE: **Amphihaline species**

### **Amphihaline potamotocous species**

USE: **Anadromous species**

### **Amphihaline species**

SN: Aquatic species which pass  
periodically, at well defined  
stages of their life cycle, from  
salt to fresh water and vice versa  
UF: Amphihaline fish  
BT: Species  
NT: Anadromous species  
Catadromous species  
RT: Osmoregulation  
Osmotic adaptations  
Salinity tolerance  
Spawning migrations

### **Amphihaline thalassotocous species**

USE: **Catadromous species**

### **Amplitude**

BT: Dimensions  
NT: Wave amplitude  
RT: Absorption (physics)  
Attenuation

### **Anabolism**

BT: Metabolism  
RT: Catabolism

### **Anadromous fish**

USE: **Anadromous species**

### **Anadromous migrations**

UF: Upstream migrations  
BT: Spawning migrations  
RT: Anadromous species  
Brackishwater fish  
Catadromous migrations  
Fishways  
Homing behaviour  
Potadromous migrations

### **Anadromous species**

SN: Having the habit to migrate  
from oceanic to coastal water  
or from salt water to freshwater  
to breed  
UF: Amphihaline potamotocous  
species  
Anadromous fish  
BT: Amphihaline species  
RT: Anadromous migrations  
Catadromous species  
Diadromy

**Anaemia**

SN: Deficiency in red blood cells, haemoglobin or both  
 UF: Anemia  
 BT: Haematological diseases  
 RT: Erythrocytes  
 Haemocyanins  
 Haemoglobins  
 Nutrition disorders

**Anaerobic bacteria**

SN: See also the taxonomic index  
 BT: Bacteria  
 RT: Anaerobic digestion  
 Anaerobic respiration  
 Anaerobiosis  
 Fermentation

Anaerobic conditions

USE: **Anoxic conditions**

**Anaerobic digestion**

BT: Biodegradation  
 RT: Anaerobic bacteria  
 Anaerobiosis  
 Biodegradable substances  
 Waste treatment

**Anaerobic respiration**

BT: Respiration  
 RT: Anaerobic bacteria  
 Anaerobiosis

Anaerobic sediments

USE: **Anoxic sediments**

Anaerobionts

USE: **Anaerobiosis**

**Anaerobiosis**

UF: Anaerobionts  
 RT: Anaerobic bacteria  
 Anaerobic digestion  
 Anaerobic respiration

**Anaesthesia**

SN: Apparatus and methods for anaesthesia of aquatic organisms  
 UF: Anesthesia  
 Electroanaesthesia  
 RT: Anaesthetics

**Anaesthetics**

UF: Anesthetics  
 BT: Drugs  
 RT: Anaesthesia  
 Fixation  
 Inhibitors  
 Narcotics

Analcime

USE: **Analcite**

**Analcite**

UF: Analcime  
 BT: Zeolites

Analog data records

USE: **Analog records**

**Analog models**

UF: Electronic models  
 BT: Models  
 NT: Acoustic models

**Analog records**

UF: Analog data records  
 BT: Records  
 NT: Bathythermograms  
 Echosounder profiles  
 Seismic profiles  
 Seismograms  
 Tidal curves  
 Tidal records  
 RT: Data converters  
 Digital records

**Analogs**

RT: Mathematical models

**Analysis**

SN: Use of a more specific term is recommended  
 NT: Biochemical analysis  
 Chemical analysis  
 Core analysis  
 Cost-benefit analysis  
 Cost analysis  
 Dynamic analysis  
 Economic analysis  
 Electroanalysis  
 Hydrocarbon analysis  
 Mathematical analysis  
 Microbiological analysis  
 Response analysis  
 Sediment analysis  
 Volumetric analysis  
 Water analysis  
 Wave analysis  
 RT: Analytical techniques  
 Electrolysis  
 Tests

**Analytical errors**

BT: Errors  
 RT: Analytical techniques

**Analytical techniques**

UF: Isentropic analysis  
 NT: Activation analysis  
 Chromatographic techniques  
 Colorimetric techniques  
 Electrophoresis  
 Gravimetric techniques  
 Interferometry  
 Ion selective electrode analysis  
 Microscopy  
 Polarography  
 Spatial analysis  
 Spectroscopic techniques  
 Stripping analysis  
 Titration  
 Winkler method  
 RT: Analysis

Analytical errors

Automated recording  
 Centrifugation  
 Chemical fingerprinting  
 Enzyme-linked immunosorbent assay  
 Methodology  
 Protein fingerprinting

**Anatomical structures**

NT: Body organs  
 Body regions  
 Circulatory system  
 Digestive system  
 Integumentary system  
 Lymphatic system  
 Nervous system  
 Neurosecretory system  
 Respiratory system  
 Skeleton  
 Urinary system  
 RT: Anatomy  
 Animal physiology  
 Cells  
 Tissues

**Anatomy**

BT: Biology  
 RT: Anatomical structures  
 Histology  
 Organism morphology  
 Osteology  
 Physiology  
 Tomography

Anchor stations

USE: **Cruise stations**

**Anchorage**

UF: Roadsteads  
 NT: Harbours  
 RT: Anchoring

**Anchoring**

RT: Anchorages  
 Anchors  
 Berthing  
 Drift  
 Mooring systems  
 Pipeline construction  
 Semisubmersible platforms

**Anchors**

UF: Ship anchors  
 RT: Anchoring  
 Berthing  
 Drogues

Anchovy fisheries

USE: **Clupeoid fisheries**

Ancient shorelines

USE: **Strandlines**

**Andalusite**

BT: Silicate minerals

**Andesite**

BT: Volcanic rocks

**Androgenesis**

BT: Reproduction

**Androgens**

USE: **Sex hormones**

**Anelasticity**

USE: **Elasticity**

**Anemia**

USE: **Anaemia**

**Anemometers**

SN: Use only for mechanically operated anemometers (cups, propellers, vanes, etc.).  
UF: Cup anemometers  
BT: Wind measuring equipment  
RT: Flowmeters  
Turbulence measurement

**Anesthesia**

USE: **Anaesthesia**

**Anesthetics**

USE: **Anaesthetics**

**Angling**

SN: Restricted to sport fishing only  
BT: Sport fishing  
RT: Bait fishing  
Pole-line fishing

**Angular distribution**

BT: Optical properties

**Angular momentum**

BT: Momentum  
RT: Conservation of angular momentum

**Anhydrite**

BT: Sulphate minerals  
RT: Authigenic minerals  
Chemical sediments  
Evaporites

**Animal appendages**

SN: Projections of the body  
UF: Appendages  
NT: Antennae  
Barbels  
Byssus  
Cilia  
Limbs  
Locomotory appendages  
Telson  
Tentacles  
RT: Cephalothorax  
Flagella  
Thorax

**Animal associations**

USE: **Ecological associations**

**Animal behaviour**

USE: **Behaviour**

**Animal body regions**

USE: **Body regions**

**Animal communication**

UF: Biocommunication  
Zoosemiotics  
BT: Communication  
RT: Behaviour  
Sound production  
Vocalization behaviour

**Animal diseases**

SN: Before 1982 search  
DISEASES  
UF: Aquatic animal diseases  
BT: Diseases  
NT: Fish diseases  
Granulomas  
RT: Aquatic animals  
Environmental diseases  
Nutrition disorders

**Animal feed**

USE: **Feed**

**Animal fossils**

BT: Fossils  
NT: Fossil foraminifera  
Fossil pteropods  
Fossil radiolaria

**Animal growth**

BT: Growth

**Animal head**

USE: **Head**

**Animal manure**

USE: **Manure**

**Animal metabolism**

SN: Before 1982 search  
METABOLISM  
BT: Metabolism  
RT: Animal physiology  
Conversion factors

**Animal migrations**

USE: **Migrations**

**Animal morphology**

SN: Before 1982 search  
MORPHOLOGY  
(ORGANISMS)  
UF: Morphology (animal)  
BT: Organism morphology  
RT: Animal physiology  
Aquatic animals  
Body regions  
Body size

**Animal navigation**

UF: Bird navigation  
Navigation (animal)  
RT: Homing behaviour  
Locomotion  
Migrations  
Navigation  
Orientation

**Animal nutrition**

UF: Finfish nutrition  
Fish nutrition  
Shellfish nutrition  
Shrimp nutrition  
Tilapia nutrition  
BT: Nutrition  
RT: Animal physiology  
Dietary fibre  
Diets  
Digestion  
Food consumption  
Food conversion  
Heterotrophy  
Ingestion  
Probiotics

**Animal oil extraction**

UF: Extraction (animal oil)  
Oil extraction (animal)  
BT: Processing fishery products  
NT: Fish oil extraction  
RT: Chemical extraction  
Separation

**Animal organs**

UF: Organs (animal)  
BT: Body organs  
NT: Alimentary organs  
Animal reproductive organs  
Bladders  
Excretory organs  
Photophores  
Respiratory organs  
Sense organs  
Vocal organs  
RT: Animal physiology  
Body regions  
Tissues

**Animal orientation**

USE: **Orientation behaviour**

**Animal pathology**

USE: **Pathology**

**Animal physiology**

SN: Before 1982 search  
PHYSIOLOGY  
UF: Physiology (animal)  
BT: Physiology  
NT: Avian physiology  
Fish physiology  
Mammalian physiology  
RT: Aestivation  
Anatomical structures  
Animal metabolism  
Animal morphology

## ASFA THESAURUS

- Animal nutrition  
Animal organs  
Aquatic animals  
Diving physiology  
Zoology
- Animal plankton  
USE: **Zooplankton**
- Animal populations**  
UF: Populations (animal)  
BT: Natural populations  
NT: Spawning populations  
RT: Aquatic animals  
Stocks  
Zoology
- Animal products**  
UF: Aquatic animal products  
NT: Coral  
Guano  
Manure  
Pearls  
Shells  
Sponges  
RT: Aquatic animals  
Waxes
- Animal protection  
USE: **Animal welfare**
- Animal reproductive organs**  
SN: For sexual reproduction only.  
Before 1982 search  
REPRODUCTIVE ORGANS  
(ANIMAL)  
UF: Reproductive organs (animal)  
Reproductive system  
Sexual glands  
BT: Animal organs  
NT: Gonads  
RT: Hermaphroditism  
Imposex  
Self fertilization  
Sex characters  
Sex reversal  
Sexual reproduction  
Sterility
- Animal rights  
USE: **Animal welfare**
- Animal wastes  
USE: **Organic wastes**
- Animal welfare**  
SN: Documents on the protection  
and treatment of animals  
UF: Abuse to animals  
Animal protection  
Animal rights  
Aquatic animal welfare  
Cruelty to animals  
Humane treatment of animals  
Treatment of animals  
BT: Bioethics  
RT: Culling
- Animals (aquatic)  
USE: **Aquatic animals**
- Anion exchange  
USE: **Ion exchange**
- Anions**  
UF: Negative ions  
BT: Ions  
RT: Electrolysis
- Anisotropic rocks**  
BT: Rocks  
RT: Anisotropy
- Anisotropy**  
BT: Physical properties  
RT: Anisotropic rocks  
Isotropic materials  
Isotropy  
Magnetic susceptibility  
Mechanical properties  
Optical properties  
Orientation
- Annotation  
USE: **Bibliographic information**
- Annual**  
BT: Periodicity  
RT: Annual variations  
Biennial
- Annual range**  
BT: Extreme values  
RT: Annual variations
- Annual reports**  
BT: Report literature  
RT: Progress reports
- Annual variations**  
UF: Year to year variations  
Yearly changes  
BT: Periodic variations  
RT: Annual  
Annual range  
Horizontal distribution  
Regional variations  
Seasonal variations
- Annuli  
USE: **Growth rings**
- Anodes**  
BT: Electrodes  
NT: Sacrificial anodes
- Anodic stripping voltammetry  
USE: **Stripping analysis**
- Anomalies**  
SN: Use of a more specific term is  
recommended  
NT: Dynamic height anomaly  
Geoid anomalies  
Gravity anomalies
- Magnetic anomalies  
Specific volume anomalies  
Temperature anomalies
- Anoxia**  
SN: Deficiency or absence of  
oxygen in the blood and tissues  
BT: Oxygen depletion  
RT: Aerobic respiration  
Asphyxia  
Hypoxia  
Mortality causes  
Necroses  
Oxygen
- Anoxic basins**  
SN: Water basins, without vertical  
circulation, characterized by a  
total absence of dissolved  
oxygen and a higher sulphides  
production  
UF: Anoxic waters  
BT: Basins  
RT: Anoxic conditions  
Anoxic sediments  
Dissolved oxygen  
Marginal seas  
Oxygen depletion
- Anoxic conditions**  
SN: Depletion of dissolved  
oxygen in any specific aquatic  
environment  
UF: Anaerobic conditions  
RT: Anoxic basins  
Dissolved oxygen  
Oxic conditions  
Oxygen consumption  
Oxygen depletion  
Pollution effects  
Stagnant water  
Winterkill
- Anoxic sediments**  
UF: Anaerobic sediments  
BT: Sediments  
RT: Anoxic basins  
Hydrogen sulphide  
Lacustrine sedimentation  
Lake deposits  
Organic matter  
Oxic sediments  
Oxygen  
Oxygen depletion  
Sapropels
- Anoxic waters  
USE: **Anoxic basins**
- ANS  
USE: **Autonomic nervous system**
- Antagonism**  
RT: Behaviour  
Synergism

**Antarctic convergence**

UF: Antarctic polar front (ocean)  
BT: Polar convergences

**Antarctic front**

SN: Use only for the semi-permanent front separating continental and maritime air masses over the Southern Ocean  
UF: Antarctic polar front (atmospheric)  
BT: Polar fronts  
RT: Polar air masses  
Polar meteorology

Antarctic polar front (atmospheric)

USE: **Antarctic front**

Antarctic polar front (ocean)

USE: **Antarctic convergence**

Antarctic waters

USE: **Polar waters**

**Antarctic zone**

BT: Polar zones

**Antennae**

SN: A pair of anterior appendages, normally of sensory function  
UF: Antennulae  
BT: Animal appendages  
RT: Orientation behaviour  
Sense functions

Antennulae

USE: **Antennae**

Anthropogenic effects

USE: **Man-induced effects**

**Anthropogenic factors**

SN: Influences exercised by man and his activities on an organism or biotic community  
BT: Environmental factors  
RT: Air pollution  
Limiting factors  
Pollution effects

Anti-submarine warfare

USE: **Undersea warfare**

Antibacterials

USE: **Antibiotics**

Antibiotic resistance

USE: **Control resistance**

**Antibiotics**

UF: Antibacterials  
BT: Drugs  
RT: Antihelminthic agents  
Antiprotozoal agents  
Bacterial diseases  
Bacteriocides  
Fungicides

Terpenes

**Antibodies**

UF: Antitoxins  
BT: Serum  
NT: Agglutinins  
Monoclonal antibodies  
RT: Antigens  
Biological poisons  
Defence mechanisms  
Immunity  
Immunology  
Immunoprecipitation  
Target cells  
Toxicity  
Vaccines

Anticholinesterases

USE: **Cholinesterase inhibitors**

**Anticlines**

BT: Folds  
NT: Domes  
RT: Salt domes  
Synclines

**Anticoagulants**

BT: Agents  
RT: Coagulants  
Dispersants  
Preservatives

Anticorrosion material

USE: **Corrosion control**

**Anticyclones**

UF: Midlatitude anticyclones  
RT: Anticyclonic motion  
Atmospheric pressure  
Cyclones  
Winds

Anticyclonic eddies

USE: **Current rings**

Anticyclonic gyres

USE: **Gyres**

**Anticyclonic motion**

BT: Motion  
RT: Anticyclones  
Cyclonic motion  
Fluid motion  
Rotation

Anticyclonic rings

USE: **Current rings**

**Antidunes**

BT: Bed forms  
RT: Transverse bed forms

Antifouling coatings

USE: **Antifouling substances**

**Antifouling substances**

UF: Antifouling coatings

BT: Agents

Biocides

RT: Arsenic compounds

Chemical control

Coating materials

Fouling

Fouling control

Shipyards

**Antifreezes**

UF: Freezing point depressants  
BT: Agents  
RT: Deicing  
Freezing

Antifungals

USE: **Fungicides**

**Antigens**

NT: Allergens  
RT: Antibodies  
Bacteria  
Blood cells  
Blood groups  
Enzyme-linked immunosorbent assay  
Glycoproteins  
Immunoprecipitation  
Serological studies  
Vaccines

Anthelminthes pesticides

USE: **Anthelminthic agents**

**Anthelminthic agents**

SN: Before 1982 search  
PESTICIDES  
UF: Anthelminthes pesticides  
BT: Agents  
Pesticides  
RT: Antibiotics  
Parasitic diseases

**Antimony**

BT: Heavy metals  
RT: Antimony isotopes

**Antimony isotopes**

BT: Isotopes  
RT: Antimony

**Antioxidants**

BT: Agents  
RT: Bioactive compounds  
Chemical compounds  
Corrosion  
Corrosion control  
Food additives  
Oxidation  
Paints

**Antiparasitic agents**

SN: Before 1982 search  
PESTICIDES  
BT: Agents  
Pesticides  
NT: Antiprotozoal agents  
RT: Parasitic diseases

## ASFA THESAURUS

### Antiprotozoal agents

SN: Before 1982 search  
 PESTICIDES  
 UF: Protozoal pesticides  
 BT: Antiparasitic agents  
 RT: Antibiotics  
 Protozoan diseases

### Antiseptics

USE: **Disinfectants**

### Antitoxins

USE: **Antibodies**

### Antitumour activity

USE: **Antitumour agents**

### Antitumour agents

UF: Antitumour activity  
 BT: Agents  
 RT: Drugs  
 Tumours

### Antiviral activity

USE: **Antiviral agents**

### Antiviral agents

UF: Antiviral activity  
 BT: Agents  
 RT: Drugs  
 Viral diseases  
 Viruses

### Anus

BT: Body regions

### Apatite

BT: Phosphate minerals

### Aphotic zone

SN: Not reached by sunlight  
 RT: Abyssopelagic zone  
 Bathypelagic zone  
 Deep water  
 Euphotic zone  
 Light penetration  
 Marine environment

### Aplanospores

USE: **Spores**

### Appendages

USE: **Animal appendages**

### Application

USE: **Utilization**

### Appraisal

USE: **Evaluation**

### Appropriate technology

BT: Technology

### Approximation

UF: Estimation  
 BT: Numerical analysis

NT: Boussinesq approximation

Closure approximation

Least squares method

RT: Back calculation

Errors

Finite difference method

Prediction

Statistical analysis

### Aquaculture

UF: Aquaculture industry

Aquatic agriculture

Aquiculture

NT: Brackishwater aquaculture

Freshwater aquaculture

Marine aquaculture

Organic aquaculture

Small scale aquaculture

Sustainable aquaculture

RT: Aquaculture development

Aquaculture economics

Aquaculture engineering

Aquaculture facilities

Aquaculture products

Aquaculture regulations

Aquaculture statistics

Aquaculture systems

Aquaculture techniques

Aquaculturists

Aquaponics

Aquatic sciences

Breeding

Brood care

Culture effects

Cultured organisms

Cultures

Echinoderm culture

Fish culture

Gonadosomatic index

Probiotics

Rearing

Shellfish culture

Stocking (organisms)

### Aquaculture development

BT: Resource development

RT: Aquaculture

Aquaculture economics

Aquaculture enterprises

Aquaculture regulations

Aquaculture systems

Aquaculture techniques

Aquaponics

Capture-based aquaculture

Development projects

Experimental culture

### Aquaculture economics

SN: Before 1982 search

FISHERY ECONOMICS

UF: Farmed fish economics

Fish culture economics

BT: Fishery economics

RT: Aquaculture

Aquaculture development

Aquaculture enterprises

Aquaculture statistics

### Aquaculture effluents

UF: Effluents (aquaculture)

BT: Effluents

### Aquaculture engineering

BT: Engineering

RT: Aquaculture

Fishery engineering

### Aquaculture enterprises

UF: Aquaculture industries

Commercial aquaculture

BT: Industries

RT: Aquaculture development

Aquaculture economics

Aquaculture systems

### Aquaculture equipment

BT: Equipment

RT: Aquaculture facilities

Aquaria

Cages

Culture tanks

Feeding equipment

Harvesting machines

Recirculating systems

Screens

Water pumps

### Aquaculture facilities

NT: Hatcheries

RT: Aquaculture

Aquaculture equipment

Aquaculture techniques

Artificial lakes

Desalination plants

Fish ponds

Water reservoirs

### Aquaculture feed

USE: **Feed**

### Aquaculture industries

USE: **Aquaculture enterprises**

### Aquaculture industry

USE: **Aquaculture**

### Aquaculture law

USE: **Aquaculture regulations**

### Aquaculture licensing

USE: **Aquaculture regulations**

### Aquaculture planning

USE: **Planning**

### Aquaculture products

SN: Organisms or products

derived from aquaculture

practices

BT: Products

RT: Aquaculture

Cultured organisms

Fishery products

## ASFA THESAURUS

### Aquaculture regulations

UF: Aquaculture law  
 Aquaculture licensing  
 BT: Legislation  
 RT: Aquaculture  
 Aquaculture development

Aquaculture sites

USE: **Site selection**

### Aquaculture statistics

SN: Referring to statistical data on cultivated aquatic organisms and harvested products  
 BT: Fishery statistics  
 RT: Aquaculture  
 Aquaculture economics  
 Seaweed statistics

### Aquaculture systems

NT: Open systems  
 Recirculating systems  
 RT: Aquaculture  
 Aquaculture development  
 Aquaculture enterprises  
 Aquaculture techniques  
 Aquaponics  
 Capture-based aquaculture  
 Cultures

### Aquaculture techniques

NT: Aquarium culture  
 Batch culture  
 Bottom culture  
 Cage culture  
 Capture-based aquaculture  
 Continuous culture  
 Extensive culture  
 Hybrid culture  
 Intensive culture  
 Mass culture  
 Monoculture  
 Monosex culture  
 Off-bottom culture  
 Overwintering techniques  
 Polyculture  
 Pond culture  
 Raceway culture  
 Raft culture  
 Silo culture  
 Thermal aquaculture  
 Tray culture  
 Valliculture  
 Warm-water aquaculture  
 Wastewater aquaculture

RT: Agropisciculture  
 Aquaculture  
 Aquaculture development  
 Aquaculture facilities  
 Aquaculture systems  
 Aquaponics  
 Artificial aeration  
 Cultures  
 Feminization  
 Gynogenesis  
 Habitat improvement  
 Induced breeding

Masculinization  
 Rearing  
 Rice field aquaculture  
 Selective breeding  
 Small scale aquaculture  
 Stocking (organisms)

### Aquaculturists

BT: Technicians  
 RT: Aquaculture

Aquafeed  
 USE: **Feed**

Aquafers  
 USE: **Aquifers**

### Aquaponics

SN: Bio-integrated system that combines recirculating aquaculture with hydroponic plant cultivation  
 RT: Agropisciculture  
 Aquaculture  
 Aquaculture development  
 Aquaculture systems  
 Aquaculture techniques  
 Cultured organisms  
 Fish culture  
 Hydroponics

### Aquaria

UF: Aquarium systems  
 Aquariums  
 Oceanaria  
 RT: Aquaculture equipment  
 Aquariology  
 Aquarium culture  
 Continuous culture  
 Ornamental fish  
 Water filtration  
 Water pumps

### Aquariology

RT: Aquaria  
 Artificial aeration

### Aquarium culture

BT: Aquaculture techniques  
 RT: Aquaria  
 Fish culture  
 Ornamental fish

Aquarium fish  
 USE: **Ornamental fish**

Aquarium systems  
 USE: **Aquaria**

Aquariums  
 USE: **Aquaria**

Aquatic agriculture  
 USE: **Aquaculture**

Aquatic animal diseases  
 USE: **Animal diseases**

Aquatic animal products  
 USE: **Animal products**

Aquatic animal welfare  
 USE: **Animal welfare**

### Aquatic animals

SN: Any microscopic or macroscopic animal organisms living permanently or developing a part of their life cycle in an aquatic environment  
 UF: Animals (aquatic)  
 Aquatic fauna  
 BT: Aquatic organisms  
 Fauna  
 NT: Aquatic birds  
 Aquatic invertebrates  
 Aquatic mammals  
 Aquatic reptiles  
 Fish  
 RT: Animal diseases  
 Animal morphology  
 Animal physiology  
 Animal populations  
 Animal products  
 Biogeography  
 Fishery resources  
 Rare species  
 Shellfish  
 Threatened species  
 Vulnerable species  
 Zoobenthos  
 Zoology  
 Zooplankton

Aquatic biologists  
 USE: **Biologists**

Aquatic biology  
 USE: **Hydrobiology**

### Aquatic birds

UF: Birds (aquatic)  
 BT: Aquatic animals  
 NT: Marine birds  
 RT: Avian physiology  
 Feathers  
 Flight behaviour  
 Flying  
 Imprinting  
 Ornithology  
 Wings

Aquatic botanical resources  
 USE: **Botanical resources**

### Aquatic communities

UF: Communities (ecological)  
 NT: Benthos  
 Epipsammon  
 Nekton  
 Neuston  
 Periphyton  
 Plankton  
 Pleuston



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Psammon  
Seston  
RT: Aquatic environment  
Aquatic organisms  
Biocoenosis  
Biological charts  
Biota  
Brackishwater ecology  
Climax community  
Community composition  
Community structure  
Ecological associations  
Ecological succession  
Ecosystems  
Freshwater ecology  
Habitat  
Marine ecology  
Niches  
Organism aggregations  
Synecology

**Aquatic crustaceans**  
SN: Before 2016 search  
SHELLFISH  
UF: Crustaceans (aquatic)  
BT: Aquatic invertebrates  
NT: Brackishwater crustaceans  
Freshwater crustaceans  
Marine crustaceans  
RT: Carcinology  
Crustacean culture  
Crustacean fisheries  
Shellfish

**Aquatic drugs**  
SN: Drugs of aquatic origin and their medical uses  
BT: Drugs

Aquatic ecology  
USE: **Ecology**

**Aquatic environment**  
SN: Environment of all types of hydrosphere  
BT: Environments  
NT: Benthic environment  
Brackishwater environment  
Epontic environment  
Inland water environment  
Interstitial environment  
Marine environment  
Pelagic environment  
RT: Aquatic communities  
Aquatic sciences  
Bayous  
Biotopes  
Ecosystems  
Environment management  
Environmental degradation  
Environmental surveys  
Habitat  
Water  
Water bodies

Aquatic fauna  
USE: **Aquatic animals**

Aquatic habitat  
USE: **Habitat**

**Aquatic insects**  
SN: Restricted to aquatic insects and their larvae  
UF: Insects (aquatic)  
BT: Aquatic invertebrates  
RT: Boring organisms  
Entomology  
Food organisms  
Freshwater invertebrates  
Insect eggs  
Insect larvae  
Wings

**Aquatic invertebrates**  
BT: Aquatic animals  
NT: Aquatic crustaceans  
Aquatic insects  
Aquatic molluscs  
Brackishwater invertebrates  
Freshwater invertebrates  
Macroinvertebrates  
Marine invertebrates  
Microinvertebrates  
Shellfish  
RT: Worm culture

Aquatic living resources  
USE: **Living resources**

Aquatic macroinvertebrates  
USE: **Macroinvertebrates**

**Aquatic mammals**  
UF: Mammals (aquatic)  
Pinnipeds  
BT: Aquatic animals  
NT: Freshwater mammals  
Marine mammals  
RT: Cetology  
Mammalian physiology  
Mammalogists  
Mammalogy  
Stranding

Aquatic microinvertebrates  
USE: **Microinvertebrates**

**Aquatic molluscs**  
SN: Before 2016 search  
SHELLFISH  
UF: Molluscs (aquatic)  
BT: Aquatic invertebrates  
NT: Brackishwater molluscs  
Freshwater molluscs  
Marine molluscs  
RT: Malacology  
Mollusc culture  
Mollusc fisheries  
Shellfish

Aquatic natural resources  
USE: **Natural resources**

**Aquatic organisms**  
SN: Use of a more specific term is recommended  
UF: Organisms (aquatic)  
NT: Aquatic animals  
Aquatic plants  
Boring organisms  
Brackishwater organisms  
Burrowing organisms  
Cultured organisms  
Dangerous organisms  
Food organisms  
Fouling organisms  
Freshwater organisms  
Heterotrophic organisms  
Luminous organisms  
Marine organisms  
Noxious organisms  
Test organisms  
Tube dwellers  
RT: Amphibiotic species  
Aquatic communities  
Microorganisms  
Organism aggregations  
Species

Aquatic plant culture  
USE: **Plant culture**

Aquatic plant resources  
USE: **Botanical resources**

Aquatic plant utilization  
USE: **Plant utilization**

**Aquatic plants**  
SN: Any microscopic or macroscopic vegetal organism living in the aquatic environment, excluding bacteria and viruses  
UF: Hydrophytes  
Plants (aquatic)  
BT: Aquatic organisms  
Flora  
NT: Freshwater plants  
Halophytes  
Macrophytes  
Marine plants  
RT: Algology  
Alkaloids  
Biogeography  
Botanical resources  
Botany  
Emergent vegetation  
Fishery resources  
Fungi  
Phytobenthos  
Phytohormones  
Phytoplankton  
Phytosociology  
Plant culture  
Plant utilization  
Pleuston  
Rare species  
Threatened species  
Vulnerable species  
Weeds

ASFA THESAURUS

- Aquatic pollution  
USE: **Water pollution**
- Aquatic reptiles**  
UF: Reptiles (aquatic)  
BT: Aquatic animals  
NT: Freshwater turtles  
Sea turtles  
RT: Herpetology  
Reptile culture
- Aquatic sciences**  
NT: Freshwater sciences  
Limnology  
Marine sciences  
RT: Aquaculture  
Aquatic environment  
Earth sciences  
Hydrosphere
- Aquatic weed control  
USE: **Plant control**
- Aquatic weed utilization  
USE: **Plant utilization**
- Aquatic weeds  
USE: **Weeds**
- Aquiculture  
USE: **Aquaculture**
- Aquifers**  
SN: Porous, geological formations containing or conducting ground water  
UF: Aquifers  
Groundwater reservoirs  
Water-bearing formations  
NT: Coastal aquifers  
RT: Geohydrology  
Ground water  
Groundwater recharge  
Hydrology  
Oases  
Water  
Water resources  
Water table
- Arabinose**  
BT: Monosaccharides  
RT: Aldehydes
- Arachidonic acid**  
BT: Organic acids
- Aragonite**  
BT: Carbonate minerals  
RT: Calcium carbonates  
Pteropod ooze
- Archaeology**  
UF: Archeology  
Marine archaeology  
Nautical archaeology  
RT: Fossils
- Hydrographic surveys  
Palaeontology
- Archean  
USE: **Precambrian**
- Archeology  
USE: **Archaeology**
- Archipelagic waters  
USE: **Archipelagoes**
- Archipelagoes**  
UF: Archipelagic waters  
RT: Islands
- Archives**  
RT: Archivists  
Gene banks  
Historical account  
Libraries
- Archivists**  
SN: Before 2016 search  
LIBRARIANS  
RT: Archives  
Information scientists  
Librarians  
Museum collections
- Arcs (island)  
USE: **Island arcs**
- Arctic environment  
USE: **Arctic zone**
- Arctic sea smoke  
USE: **Fog**
- Arctic waters  
USE: **Polar waters**
- Arctic zone**  
UF: Arctic environment  
BT: Polar zones  
RT: Permafrost
- Area**  
UF: Surface area  
BT: Dimensions  
NT: Swept area  
RT: Hypsometric curves  
Size  
Surfaces
- Arenites**  
BT: Clastics  
RT: Graywacke  
Placers  
Sand  
Sandstone
- Argillaceous deposits**  
RT: Clays  
Lutites  
Marl  
Marlstone
- Sediments  
Slates
- Arginine**  
BT: Amino acids
- Argon**  
BT: Rare gases  
RT: Argon isotopes
- Argon isotopes**  
BT: Isotopes  
RT: Argon  
Potassium-argon dating
- Arid environments**  
NT: Deserts  
RT: Climatic zones  
Droughts  
Playas  
Sabkhas
- Arkshell fisheries  
USE: **Clam fisheries**
- Aroma  
USE: **Odour**
- Aromatic compounds  
USE: **Aromatics**
- Aromatic hydrocarbons**  
SN: Before 1982 search also  
AROMATICS  
UF: Monocyclic hydrocarbons  
Polycyclic hydrocarbons  
BT: Unsaturated hydrocarbons  
NT: Benzene  
Naphthalene  
PCB  
Xylene
- Aromatics**  
UF: Aromatic compounds  
NT: Phenols  
RT: Chemical compounds  
Organic compounds
- Arrays**  
NT: Acoustic arrays  
Current meter arrays  
Seismic arrays  
Thermistor chains  
Thermocouple arrays
- Arsenates**  
BT: Arsenic compounds
- Arsenic**  
BT: Heavy metals  
RT: Arsenic compounds
- Arsenic compounds**  
BT: Chemical compounds  
NT: Arsenates  
RT: Antifouling substances  
Arsenic

ASFA THESAURUS

- Artemia culture  
USE: **Brine shrimp culture**
- Arteries  
USE: **Blood vessels**
- Articulated columns**  
UF: Articulated structures  
BT: Offshore structures  
RT: Loading buoys  
Single point moorings
- Articulated structures  
USE: **Articulated columns**
- Artificial aeration**  
SN: Aeration systems used in aquaria, aquaculture, diving and lakes  
BT: Aeration  
RT: Aquaculture techniques  
Aquariology  
Bubble disease  
Gases  
Habitat improvement (chemical)
- Artificial fecundation  
USE: **Induced breeding**
- Artificial feed  
USE: **Feed**
- Artificial feeding**  
BT: Feeding  
NT: Selective feeding  
RT: Balanced rations  
Diets  
Feed composition  
Feeding experiments  
Rearing
- Artificial habitats  
USE: **Underwater habitats**
- Artificial harbours**  
SN: Purpose-built anchorages constructed on an open coast. Use of a more specific term is recommended  
BT: Harbours  
NT: Marinas  
RT: Military ports  
Offshore docking
- Artificial intelligence**  
UF: Expert systems  
RT: Computer programs
- Artificial islands**  
BT: Offshore structures  
NT: Ice rafts  
Sand structures  
RT: Ice islands  
Islands
- Artificial lakes**  
UF: Man-made lakes  
BT: Lakes  
RT: Aquaculture facilities  
Water reservoirs
- Artificial manure  
USE: **Manure**
- Artificial rearing  
USE: **Rearing**
- Artificial reefs**  
SN: Artificial structures introduced or built in marine or brackish coastal waters creating a sheltered space for fishing or aquaculture  
UF: Reefs (artificial)  
BT: Offshore structures  
RT: Artificial spawning grounds  
Habitat improvement (physical)  
Reef fish  
Reef fisheries  
Reefs  
Shelters
- Artificial satellites  
USE: **Satellites**
- Artificial sea grass**  
BT: Sea grass
- Artificial seawater**  
UF: Synthetic sea water  
RT: Sea water  
Standard sea water
- Artificial seaweed**  
UF: Seaweed (artificial)  
RT: Scour protection  
Seabed protection  
Seaweeds
- Artificial shelters  
USE: **Shelters**
- Artificial spawning  
USE: **Induced breeding**
- Artificial spawning grounds**  
SN: Any man-made arrangement put into water bodies for fish to spawn  
BT: Spawning grounds  
RT: Artificial reefs  
Shelters
- Artificial substrata**  
BT: Substrata  
NT: Cultch  
RT: Algal settlements  
Settling behaviour
- Artificial upwelling**  
BT: Upwelling  
RT: OTEC
- Temperature differences  
Thermal power
- Artisanal aquaculture  
USE: **Small scale aquaculture**
- Artisanal fisheries**  
BT: Fisheries  
RT: Artisanal fishing  
Artisanal whaling  
Canoe fisheries  
Coastal fisheries  
Estuarine fisheries  
Lagoon fisheries  
Lake fisheries  
River fisheries  
Small scale aquaculture
- Artisanal fishing**  
SN: Mainly for local human food subsistence using primitive gears and vessels  
UF: Small scale fishing  
Traditional fishing  
BT: Fishing  
RT: Artisanal fisheries  
Artisanal whaling  
Canoe fisheries  
Coastal fisheries  
Estuarine fisheries  
Handlining  
Indigenous fishing  
Lagoon fisheries  
Lake fisheries  
Line fishing  
River fisheries  
Trap fishing
- Artisanal whaling**  
UF: Shore whaling  
BT: Whaling  
RT: Artisanal fisheries  
Artisanal fishing
- Asbestos**  
RT: Insulating materials
- Ascorbic acid  
USE: **Vitamin C**
- Ascospores  
USE: **Spores**
- ASCP  
USE: **Single cell proteins**
- Asdic  
USE: **Sonar**
- Aseismic margins  
USE: **Passive margins**
- Aseismic ridges**  
BT: Submarine ridges  
RT: Seismic ridges

ASFA THESAURUS

**Aseismic zones**

BT: Earth structure  
RT: Seismic zones

**Asexual reproduction**

BT: Reproduction  
NT: Budding  
RT: Clones  
Cloning  
Conidia  
Gemules  
Plant reproductive structures  
Sporangia  
Spores  
Vegetative reproduction

**Ash content**

RT: Ashes

**Ash layers**

RT: Ashes  
Tephra

**Ashes**

NT: Fly ash  
Volcanic ash  
RT: Ash content  
Ash layers

Asian sea bass culture

USE: **Barramundi culture**

**Aspartic acid**

BT: Amino acids

**Asphalt**

BT: Petroleum hydrocarbons  
RT: Oil sands  
Petroleum residues

**Asphyxia**

SN: State of suspended animation  
as a result of deficiency of  
oxygen in the blood  
UF: Suffocation  
RT: Anoxia  
Hypercapnia  
Mortality causes

Assemblages

USE: **Ecological associations**

Assembling

USE: **Construction**

Assessments

USE: **Evaluation**

Assimilation (food)

USE: **Food conversion**

**Associated species**

SN: Species which have a  
predator/prey or competitive  
relationship with the exploited  
species  
UF: Dependent species

Interdependent species

BT: Species

RT: Competition

Interspecific relationships

Intraspecific relationships

Predation

**Association constants**

BT: Constants

Associations

USE: **Organizations**

Associations (animal)

USE: **Ecological associations**

Associations (ecological)

USE: **Ecological associations**

Astaciculture

USE: **Crayfish culture**

**Asthenosphere**

BT: Earth structure

RT: Isostasy

Lithosphere

Low-velocity layer

Magma

Moho

Plate tectonics

Upper mantle

**Astronomical tides**

UF: Highest astronomical tides

Lowest astronomical tides

BT: Tides

RT: Extreme values

Tidal amplitude

**Astronomy**

RT: Celestial navigation

Earth orbit

Moon

Moon phases

Satellites

Solar activity

Solar eclipse

Solar radiation

Sun

**Atlases**

BT: Documents

NT: Oceanographic atlases

RT: Cartography

Expedition reports

Gazetteers

Maps

Atmosphere-ocean system

USE: **Ocean-atmosphere system**

Atmosphere (earth)

USE: **Earth atmosphere**

Atmosphere (life support)

USE: **Life support systems**

Atmosphere (planetary)

USE: **Planetary atmospheres**

**Atmosphere evolution**

SN: Evolution of planetary  
atmospheres

UF: Evolution (atmosphere)

RT: Atmospheric chemistry

Earth history

Geochemistry

Planetary atmospheres

Seawater evolution

Atmospheric aerosols

USE: **Aerosols**

**Atmospheric boundary layer**

UF: Air-water boundary layer

Planetary boundary layer

Surface boundary layer

BT: Boundary layers

RT: Air-water interface

Atmospheric fronts

Atmospheric turbulence

Cellular convection

Moisture transfer

Momentum transfer

Troposphere

Wave interactions

Wind profiles

Wind stress

**Atmospheric chemistry**

UF: Atmospheric composition

BT: Atmospheric sciences

Chemistry

RT: Air pollution

Air sampling

Atmosphere evolution

Atmospheric gases

Atmospheric particulates

Climatic changes

Earth atmosphere

**Atmospheric circulation**

UF: General circulation

(atmospheric)

BT: Atmospheric motion

Circulation

NT: Meridional atmospheric  
circulation

RT: Coriolis force

Heat transport

Ocean circulation

Southern oscillation

Winds

Atmospheric composition

USE: **Atmospheric chemistry**

Atmospheric conditions

USE: **Weather**

**Atmospheric convection**

BT: Convection

RT: Atmospheric motion

## ASFA THESAURUS

### Atmospheric convergences

BT: Convergence zones  
 NT: Intertropical convergence zone  
 Polar fronts  
 RT: Atmospheric fronts

### Atmospheric depressions

NT: Tropical depressions  
 RT: Weather

### Atmospheric diffusion

BT: Diffusion  
 RT: Turbulent diffusion

### Atmospheric disturbances

SN: Use of a more specific term is recommended  
 RT: Air masses  
 Atmospheric fronts  
 Atmospheric motion  
 High pressure ridges  
 High pressure systems  
 Low pressure systems  
 Meteorology  
 Tornadoes  
 Tropical depressions

Atmospheric electrical phenomena

USE: **Atmospheric electricity**

### Atmospheric electricity

UF: Atmospheric electrical phenomena  
 Aurora  
 St Elmo's fire  
 BT: Electricity  
 NT: Lightning  
 RT: Atmospheric physics  
 Ionosphere

Atmospheric fallout

USE: **Fallout**

### Atmospheric forcing

UF: Meteorological forcing  
 RT: Atmospheric pressure  
 Hurricanes  
 Mixed layer depth  
 Oceanic response  
 Response time  
 Surface mixed layer  
 Thermal structure  
 Wind stress

### Atmospheric fronts

UF: Cold fronts  
 Fronts (meteorology)  
 Meteorological fronts  
 Occluded fronts  
 Warm fronts  
 BT: Fronts  
 NT: Coastal atmospheric fronts  
 RT: Air masses  
 Atmospheric boundary layer  
 Atmospheric convergences  
 Atmospheric disturbances

Frontal features  
 Meteorology  
 Troposphere  
 Weather forecasting

### Atmospheric gases

BT: Gases  
 NT: Carbon dioxide  
 Hydrogen  
 Nitrogen  
 Oxygen  
 Ozone  
 RT: Atmospheric chemistry

### Atmospheric motion

UF: Air motion  
 BT: Motion  
 NT: Atmospheric circulation  
 Winds  
 RT: Air flow over land  
 Air flow over water  
 Atmospheric convection  
 Atmospheric disturbances  
 Atmospheric turbulence  
 Earth atmosphere  
 Fluid dynamics  
 Heat transport  
 Horizontal motion  
 Lee waves  
 Meteorology  
 Planetary waves  
 Vertical motion  
 Vorticity  
 Waterspouts

### Atmospheric optical phenomena

UF: Mirages  
 RT: Atmospheric physics  
 Haze  
 Light  
 Optics  
 Visibility

### Atmospheric particulates

UF: Dust (atmospheric)  
 Particulate matter (air)  
 Particulates (atmospheric)  
 BT: Particulates  
 NT: Salt particles  
 RT: Aerosols  
 Air pollution  
 Air sampling  
 Atmospheric chemistry  
 Dust  
 Fallout  
 Fly ash  
 Pollen  
 Smoke  
 Spores

### Atmospheric physics

UF: Aeronomy  
 BT: Atmospheric sciences  
 Physics  
 NT: Cloud physics  
 RT: Atmospheric electricity

Atmospheric optical phenomena  
 Earth atmosphere  
 Meteorology

Atmospheric polar fronts  
 USE: **Polar fronts**

Atmospheric pollution  
 USE: **Air pollution**

### Atmospheric precipitations

SN: Before 1982 use  
**PRECIPITATIONS**  
 (ATMOSPHERIC)  
 UF: Precipitation (atmospheric)  
 Precipitation (meteorology)  
 BT: Hydrometeors  
 NT: Hail  
 Rain  
 Snow  
 RT: Clouds  
 Meteorology  
 Water resources  
 Weather

### Atmospheric pressure

UF: Barometric pressure  
 Pressure (atmospheric)  
 BT: Pressure  
 NT: Sea level pressure  
 RT: Anticyclones  
 Atmospheric forcing  
 Barometers  
 Earth atmosphere  
 High pressure systems  
 Hypsometry  
 Low pressure systems  
 Meteorology  
 Pressure field  
 Radiosondes  
 Sigma-T  
 Weather  
 Weather forecasting  
 Winds

Atmospheric radiation  
 USE: **Downward long wave radiation**

### Atmospheric sciences

BT: Earth sciences  
 NT: Atmospheric chemistry  
 Atmospheric physics  
 Climatology  
 Meteorology

### Atmospheric tides

SN: Tidal motion in the atmosphere  
 UF: Tides (atmospheric)  
 BT: Tidal motion  
 RT: Earth tides  
 Meteorological tides  
 Tides

## ASFA THESAURUS

Atmospheric turbidity  
USE: **Haze**

### **Atmospheric turbulence**

UF: Clear air turbulence  
BT: Turbulence  
NT: Gusts  
Squalls  
RT: Atmospheric boundary layer  
Atmospheric motion  
Laminar flow  
Turbulence measurement  
Winds

### **Atoll lagoons**

BT: Lagoons  
RT: Atolls

### **Atolls**

UF: Coral islands  
BT: Islands  
RT: Atoll lagoons  
Coral  
Coral reefs

Atomic absorption spectroscopy  
USE: **Absorption spectroscopy**

Atomic energy  
USE: **Nuclear energy**

Atomic fluorescence spectroscopy  
USE: **Fluorescence spectroscopy**

Atomic physics  
USE: **Nuclear physics**

Atomic power plants  
USE: **Nuclear power plants**

### **ATP**

UF: Adenosine triphosphate  
BT: Nucleotides  
Phosphates

Attachment (biological)  
USE: **Biological attachment**

Attachment (lampreys)  
USE: **Lamprey attachment**

Attachment (parasites)  
USE: **Parasite attachment**

### **Attachment organs**

BT: Body organs  
RT: Biological attachment

### **Attenuance**

BT: Optical properties  
RT: Extinction coefficient  
Light attenuation  
Transmittance

### **Attenuation**

SN: Use of a more specific term is recommended

NT: Light attenuation  
Seismic attenuation  
Wave attenuation  
RT: Absorption (physics)  
Amplitude  
Damping  
Signal-to-noise ratio  
Transmission  
Wave motion

Attenuation (light)  
USE: **Light attenuation**

Attenuation (water waves)  
USE: **Wave attenuation**

Attenuation coefficient  
USE: **Extinction coefficient**

### **Attracting techniques**

SN: Use of artificial or natural objects or artificial stimuli (light electricity, etc.) to attract and concentrate fish and other aquatic animals for fishing  
UF: Fish attracting  
Luring  
RT: Bait fishing  
Catching methods  
Fish aggregating devices

### **Audio recordings**

UF: Gramophone records  
Sound recordings  
Tape recordings (sound)  
BT: Audiovisual materials  
RT: Magnetic tape recordings  
Records  
Sound recorders

### **Audiovisual materials**

UF: Visual aids  
NT: Audio recordings  
Films  
Filmstrips  
Graphics  
Photographs  
Satellite mosaics  
Slides (photographic)  
Videotape recordings  
RT: Documents  
Magnetic tapes  
Scale models  
Training aids

### **Audition**

BT: Sense functions  
RT: Auditory organs  
Auditory stimuli  
Sound production

### **Auditory organs**

UF: Ears  
Phonoreceptors  
BT: Sense organs  
RT: Audition  
Auditory stimuli

Echolocation  
Mechanical stimuli  
Sound production  
Vocalization behaviour

### **Auditory stimuli**

BT: Stimuli  
RT: Audition  
Auditory organs  
Sound production  
Vocalization behaviour

### **Augite**

BT: Pyroxenes

### **Aurora**

USE: **Atmospheric electricity**

### **Austausch coefficients**

USE: **Exchange coefficients**

### **Autecology**

SN: Ecological study of a single individual or many individuals of a given species  
BT: Ecology  
RT: Biological rhythms  
Life history  
Migrations

### **Authigenes**

USE: **Authigenic minerals**

### **Authigenesis**

BT: Diagenesis  
RT: Authigenic minerals

### **Authigenic minerals**

UF: Authigenes  
Authigenic sediments  
BT: Sediments  
NT: Evaporites  
Ironstone  
RT: Anhydrite  
Authigenesis  
Chemical sediments  
Gypsum  
Halite  
Phosphate deposits  
Phosphorite  
Submarine cements

### **Authigenic sediments**

USE: **Authigenic minerals**

### **Autobiographies**

USE: **Biographies**

### **Autochthonous deposits**

RT: Allochthonous deposits  
Biogenic deposits  
Sediments

### **Autocorrelation**

UF: Autocorrelation functions  
BT: Correlation analysis  
RT: Cross correlation

Autocorrelation functions  
USE: **Autocorrelation**

**Autolysis**  
SN: Self digestion by the action of enzymes  
BT: Chemical reactions  
RT: Degradation  
Enzymes

**Automated cartography**  
UF: Computer aided cartography  
BT: Cartography  
RT: Automated recording  
Automation

Automated data processing  
USE: **Data processing**

**Automated recording**  
SN: Automated techniques for determination of physico-chemical properties of water  
UF: Automated techniques  
RT: Analytical techniques  
Automated cartography  
Automation

Automated techniques  
USE: **Automated recording**

**Automation**  
RT: Automated cartography  
Automated recording  
Computers  
Data processing  
Mechanization  
Remote control  
Robots

**Autonomic nervous system**  
SN: Before 1982 search  
NERVOUS SYSTEM  
UF: ANS  
Parasympathetic nervous system  
Sympathetic nervous system  
BT: Nervous system

**Autopilots**  
RT: Navigation systems  
Navigational aids

Autoradiographic techniques  
USE: **Autoradiography**

**Autoradiography**  
UF: Autoradiographic techniques  
BT: Radiography  
RT: Radioactive tracers

**Autotomy**  
SN: Voluntary separation of a part of the body  
RT: Protective behaviour  
Regeneration

**Autotrophy**  
BT: Nutritional types  
RT: Plant nutrition

**Autumn**  
UF: Fall  
Fall season  
BT: Seasons

**Auxins**  
BT: Growth regulators  
RT: Phytohormones  
Plant physiology

**Availability**  
SN: Use of a more specific term is recommended  
NT: Commercial availability  
Food availability  
Resource availability  
RT: Abundance

Available potential energy  
USE: **Potential energy**

**Avalanches**  
UF: Snow avalanches  
Snowslides  
BT: Slides  
RT: Damage  
Disasters  
Hazard assessment  
Hazards  
Landslides

**Avian physiology**  
SN: Before 1982 search  
PHYSIOLOGY  
UF: Bird physiology  
BT: Animal physiology  
RT: Aquatic birds

Avitaminosis  
USE: **Vitamin deficiencies**

Avoidance  
USE: **Avoidance reactions**

**Avoidance reactions**  
SN: Before 1982 search  
AVOIDANCE  
UF: Avoidance  
Net avoidance  
BT: Behaviour  
RT: Catchability  
Escapement  
Migrations

**AXBTs**  
UF: Air-deployed expendable bathythermographs  
BT: XBTs  
RT: Airborne equipment

**Axenic culture**  
SN: Growth of organisms of a single species in the absence of cells or living organisms of any other species  
RT: Monoculture

Axons  
USE: **Neurons**

**Azimuth**  
RT: Direction

**Azines**  
BT: Organic compounds  
NT: Pyridines  
Pyrimidines  
Quinolines

Back-arc basins  
USE: **Marginal basins**

**Back calculation**  
RT: Approximation

Background noise (sound)  
USE: **Ambient noise**

Backrush  
USE: **Backwash**

**Backscatter**  
UF: Sound backscatter  
BT: Sound scattering  
RT: Forward scattering  
Reverberation  
Scatterometers

Backshore  
USE: **Beach features**

**Backwash**  
UF: Backrush  
RT: Wave effects  
Wave runup  
Waves on beaches

**Backwaters**  
SN: Water held back from the main flow of a river  
RT: Dams  
Lagoons  
Stream flow  
Water reservoirs

**Bacteria**  
SN: Use of a more specific term is recommended. Before 2016 search also as a taxonomic descriptor  
BT: Microorganisms  
NT: Aerobic bacteria  
Anaerobic bacteria  
Coliforms  
Pathogenic bacteria  
RT: Agglutinins  
Antigens

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- Bacteria collecting devices  
 Bacterial counters  
 Bacterial filtration  
 Bacterins  
 Bacteriology  
 Bacteriophages  
 Bioerosion  
 Decomposers  
 Endotoxins  
 Filter feeders  
 Food poisoning  
 Microbiological strains  
 Nannoplankton  
 Plasmids  
 Single cell proteins  
 Spores
- Bacteria collecting devices**  
 BT: Collecting devices  
 RT: Bacteria
- Bacterial counters**  
 BT: Counters  
 RT: Bacteria  
 Bacteriology
- Bacterial diseases**  
 UF: Bacterioses  
 BT: Infectious diseases  
 NT: Botulism  
 Tuberculosis  
 Vibriosis  
 RT: Antibiotics  
 Bacterins  
 Bacteriology  
 Boil disease  
 Endotoxins  
 Gill disease  
 Immunization  
 Pathogenic bacteria  
 Peduncle disease  
 Redmouth disease
- Bacterial filtration**  
 BT: Filtration  
 RT: Bacteria
- Bacterial gill disease  
 USE: **Gill disease**
- Bacterial haemorrhagic septicaemia  
 USE: **Septicaemia**
- Bacterial vaccines  
 USE: **Vaccines**
- Bactericides  
 USE: **Bacteriocides**
- Bacterins**  
 BT: Vaccines  
 RT: Bacteria  
 Bacterial diseases  
 Pathogens
- Bacteriocides**  
 UF: Bactericides
- BT: Pesticides  
 RT: Antibiotics  
 Bacteriology
- Bacteriology**  
 BT: Microbiology  
 RT: Bacteria  
 Bacterial counters  
 Bacterial diseases  
 Bacteriocides  
 Bacteriophages  
 Bioassays  
 Endotoxins  
 Epidemiology  
 Parasitology
- Bacteriophages**  
 RT: Bacteria  
 Bacteriology  
 Transduction  
 Viruses
- Bacterioplankton  
 USE: **Nannoplankton**
- Bacterioses  
 USE: **Bacterial diseases**
- Baffles (sound)  
 USE: **Acoustic insulation**
- Bait**  
 SN: Including natural (dead or living) and artificial baits (lures, chemical baits, etc.)  
 UF: Fishing bait  
 Lures  
 RT: Bait fish  
 Bait fishing  
 Hooks  
 Line fishing  
 Trap fishing
- Bait culture**  
 SN: Before 1982 search FISH CULTURE  
 UF: Bait farming  
 Bait fish culture  
 BT: Fish culture  
 RT: Bait fish  
 Bait fisheries  
 Brackishwater aquaculture  
 Freshwater aquaculture  
 Hatcheries  
 Worm culture
- Bait farming  
 USE: **Bait culture**
- Bait fish**  
 BT: Fish  
 RT: Bait  
 Bait culture  
 Bait fisheries  
 Bait fishing
- Bait fish culture  
 USE: **Bait culture**
- Bait fisheries**  
 BT: Fisheries  
 RT: Bait culture  
 Bait fish  
 Clupeoid fisheries
- Bait fishing**  
 BT: Fishing  
 RT: Angling  
 Attracting techniques  
 Bait  
 Bait fish  
 Ice fishing  
 Line fishing  
 Purse seining  
 Trap fishing
- Balance (ecological)  
 USE: **Ecological balance**
- Balance of nature  
 USE: **Ecological balance**
- Balance organs**  
 BT: Sense organs  
 NT: Statocysts
- Balanced diets**  
 BT: Diets  
 RT: Balanced rations  
 Nutritional requirements
- Balanced polymorphism  
 USE: **Biopolymorphism**
- Balanced rations**  
 RT: Artificial feeding  
 Balanced diets  
 Nutritional requirements  
 Nutritive value
- Baleens**  
 UF: Whalebones  
 BT: Mouth parts
- Ballast**  
 UF: Ballast water  
 Seawater ballast  
 Ship ballast water  
 Water ballast  
 RT: Ballast tanks  
 Bilge water  
 Buoyancy  
 Buoyancy floats  
 Floating  
 Introduced species  
 Invasive species  
 Loads (forces)  
 Stability
- Ballast tanks**  
 RT: Ballast  
 Underwater vehicles



Ballast water  
USE: **Ballast**

**Balloons**

UF: Meteorological balloons  
BT: Wind measuring equipment  
RT: Meteorological instruments  
Radiosondes

Banks (financial)  
USE: **Financial institutions**

**Banks (topography)**

BT: Topographic features  
NT: Embankments  
Mud banks  
River banks  
Sand banks  
Submarine banks

**Barbels**

BT: Animal appendages  
RT: Tactile organs

**Barges**

SN: Do not use for drilling structures  
BT: Surface craft  
NT: Crane barges  
Pipelaying barges  
RT: Floating structures  
Pontoon  
Towing  
Work platforms

**Barite**

BT: Sulphate minerals  
RT: Barium  
Placers

**Barium**

BT: Alkaline earth metals  
RT: Barite  
Barium compounds  
Barium isotopes  
Magnesium

**Barium compounds**

BT: Alkaline earth metal compounds  
RT: Barium

**Barium isotopes**

BT: Isotopes  
RT: Barium

**Baroclinic field**

BT: Fields  
RT: Baroclinic mode  
Baroclinic motion

Baroclinic flow  
USE: **Baroclinic motion**

**Baroclinic instability**

BT: Instability  
RT: Baroclinic mode

Baroclinic motion  
Barotropic instability  
Energy transfer  
Mesoscale eddies  
Potential vorticity  
Rossby parameter

**Baroclinic mode**

UF: Baroclinicity  
Baroclinity  
BT: Modes  
RT: Baroclinic field  
Baroclinic instability  
Baroclinic motion  
Barotropic mode  
Internal tides  
Isobaric surfaces  
Isopycnic surfaces  
Stratification  
Stratified flow

**Baroclinic motion**

UF: Baroclinic flow  
Baroclinic waves  
BT: Fluid motion  
RT: Baroclinic field  
Baroclinic instability  
Baroclinic mode  
Barotropic motion  
Internal tides  
Stratified flow

Baroclinic tides  
USE: **Internal tides**

Baroclinic waves  
USE: **Baroclinic motion**

Baroclinicity  
USE: **Baroclinic mode**

Baroclinity  
USE: **Baroclinic mode**

Barographs  
USE: **Barometers**

**Barometers**

UF: Barographs  
BT: Measuring devices  
RT: Atmospheric pressure  
Manometers

Barometric currents  
USE: **Wind-driven currents**

Barometric pressure  
USE: **Atmospheric pressure**

**Barotropic field**

BT: Fields  
RT: Barotropic mode  
Barotropic motion

Barotropic flow  
USE: **Barotropic motion**

**Barotropic instability**

BT: Instability  
RT: Baroclinic instability  
Barotropic mode  
Energy transfer  
Potential vorticity  
Unsteady flow

**Barotropic mode**

UF: Barotropy  
BT: Modes  
RT: Baroclinic mode  
Barotropic field  
Barotropic instability  
Barotropic motion  
Conservation of vorticity  
Isobaric surfaces  
Isopycnic surfaces  
Stratification

**Barotropic motion**

UF: Barotropic flow  
Barotropic waves  
BT: Fluid motion  
RT: Baroclinic motion  
Barotropic field  
Barotropic mode  
Barotropic tides

**Barotropic tides**

BT: Tides  
RT: Barotropic motion

Barotropic waves  
USE: **Barotropic motion**

Barotropy  
USE: **Barotropic mode**

**Barrages**

SN: Fixed structures built for the purpose of containing water for irrigation, power generation, recreation, flood control, etc.  
BT: Hydraulic structures  
NT: Dams  
Enclosures  
Tidal barrages  
Weirs  
RT: Barriers  
Coastal structures  
Containment

**Barramundi culture**

SN: Before 2016 search FISH CULTURE + species name  
UF: Asian sea bass culture  
BT: Fish culture

**Barrier beaches**

BT: Beaches  
RT: Barrier islands  
Barrier spits  
Nearshore bars

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### Barrier islands

BT: Coastal landforms  
Islands  
RT: Barrier beaches  
Barrier reefs  
Barrier spits  
Beach accretion  
Coastal lagoons  
Deposition features  
Tidal inlets

Barrier nets

USE: **Fishing barriers**

### Barrier reefs

BT: Coral reefs  
RT: Barrier islands  
Fringing reefs  
Lagoons

### Barrier spits

UF: Bay barriers  
Nehrung  
BT: Spits  
RT: Barrier beaches  
Barrier islands  
Bays  
Coastal lagoons

### Barriers

SN: Use of a more specific term is recommended  
NT: Bubble barriers  
Fishing barriers  
Floating barriers  
Ice barriers  
Storm surge barriers  
RT: Barrages  
Biotic barriers  
Breakwaters  
Containment

Barriers (biological)

USE: **Biotic barriers**

Barriers (fishing)

USE: **Fishing barriers**

Bars

USE: **Nearshore bars**

### Basalt-seawater interaction

BT: Hydrothermal activity  
RT: Hydrothermal alteration  
Palagonite

Basaltic glass

USE: **Volcanic glass**

Basaltic lava

USE: **Basalts**

Basaltic layer

USE: **Sima**

### Basalts

UF: Basaltic lava

BT: Volcanic rocks

NT: Alkali basalts

Oceanite

Tholeiite

Tholeiitic basalt

RT: Lava

### Baseline studies

SN: Studies conducted in advance of an anticipated environmental change or for long-term comparison of environmental or ecological conditions  
UF: Baseline surveys  
Ecological baseline studies  
RT: Long-term changes  
Monitoring  
Surveys

Baseline surveys

USE: **Baseline studies**

Basement (geology)

USE: **Basement rock**

### Basement rock

UF: Basement (geology)  
BT: Earth structure  
RT: Earth crust  
Moho  
Rocks

### Basic diets

BT: Diets

Basidiospores

USE: **Spores**

### Basins

SN: Use of a more specific term is recommended  
NT: Anoxic basins  
Lake basins  
Ocean basins  
River basins  
Sedimentary basins  
Structural basins  
RT: Topographic features

Basket culture

USE: **Cage culture**

### Batch culture

SN: Culture of organisms in homogeneous developmental stages  
BT: Aquaculture techniques  
RT: Continuous culture  
Culture tanks  
Hatcheries  
Seed production

Batch processing

USE: **Data processing**

Batfish

USE: **Undulators**

### Bathing

SN: Before 1982 search  
RECREATIONAL  
SWIMMING  
UF: Recreational swimming  
Swimming (recreation)  
BT: Recreation  
RT: Drowning  
Surfing

### Batholiths

BT: Igneous intrusions  
RT: Igneous dikes  
Igneous rocks  
Plutons

### Bathyal-benthic zone

SN: Benthic regions between 500 and 1000 m depth  
BT: Benthic environment  
RT: Bathyal zone  
Bathypelagic zone  
Mesopelagic zone

### Bathyal zone

SN: Zone between 500 and 1000 m depth  
RT: Bathyal-benthic zone  
Bathypelagic zone  
Pelagic environment

Bathogenesis

USE: **Epeirogeny**

### Bathymeters

BT: Measuring devices  
NT: Laser bathymeters  
RT: Bathymetry  
Bathythermographs  
Depth recorders  
Oceanographic equipment  
Water depth

### Bathymetric charts

BT: Hydrographic charts  
RT: Bathymetric data  
Bathymetric profiles  
Bathymetric surveys  
Bathymetry  
Geological maps  
Isobaths  
Topographic maps  
Vertical distribution  
Water depth

### Bathymetric data

BT: Oceanographic data  
NT: Soundings  
RT: Bathymetric charts  
Bathymetric profiles  
Bathymetry  
Geological data  
Limnological data  
Water depth

Bathymetric distribution  
USE: **Vertical distribution**

Bathymetric observations  
USE: **Soundings**

**Bathymetric profiles**  
BT: Hydrographic sections  
RT: Bathymetric charts  
Bathymetric data  
Bathymetry  
Echosounder profiles  
Horizontal profiles  
Water depth

**Bathymetric surveys**  
BT: Hydrographic surveys  
RT: Bathymetric charts  
Bathymetry  
Cartography  
Water depth

**Bathymetry**  
SN: To be used only for the operation of measuring water depth, i.e. surface to seabed  
UF: Depth sounding (water)  
Laser bathymetry  
Sounding (water depth)  
Water depth measurement  
BT: Depth measurement  
RT: Bathymeters  
Bathymetric charts  
Bathymetric data  
Bathymetric profiles  
Bathymetric surveys  
Bottom topography  
Deep water  
Echosounding  
Hydrographic surveys  
Hydrography  
Isobaths  
Morphometry  
Seafloor mapping  
Sounding lines  
Soundings  
Water depth

**Bathypelagic zone**  
SN: Waters between about 500 and 4000 m depth  
BT: Oceanic province  
RT: Aphotic zone  
Bathyal-benthic zone  
Bathyal zone  
Pelagic environment

**Bathyspheres**  
BT: Observation chambers  
RT: Underwater exploration

**Bathythermograms**  
BT: Analog records  
RT: Bathythermographic data  
Bathythermographs

**Bathythermographic data**  
BT: Oceanographic data  
RT: Bathythermograms  
Bathythermographs  
Temperature sections  
Water depth

**Bathythermographs**  
SN: Devices used to record water temperature as a function of depth  
UF: Mechanical bathythermographs  
BT: Profilers  
NT: XBTs  
RT: Bathymeters  
Bathythermograms  
Bathythermographic data  
Depth recorders  
Limnological equipment  
Thermometers  
Water depth  
Water temperature

**Batteries**  
UF: Electric batteries  
BT: Electric power sources  
RT: Electrical equipment  
Electromagnetic power

**Bauxite**  
BT: Oxide minerals  
RT: Aluminium  
Clay minerals

Bay barriers  
USE: **Barrier spits**

**Bay dynamics**  
BT: Shelf dynamics  
RT: Bays  
Estuarine dynamics  
Nearshore dynamics  
Wave dynamics

**Bayesian analysis**  
UF: Bayesian probability  
Bayesian statistical decision theory  
Bayesian statistics  
BT: Statistical analysis  
RT: Probability theory

Bayesian probability  
USE: **Bayesian analysis**

Bayesian statistical decision theory  
USE: **Bayesian analysis**

Bayesian statistics  
USE: **Bayesian analysis**

**Bayous**  
SN: Used in the US for a body of water typically found in a flat, low-lying area, and can refer either to an extremely

slow-moving stream or river (often with a poorly defined shoreline), or to a marshy lake or wetland. They can be freshwater, saltwater or brackish  
BT: Water bodies  
RT: Aquatic environment  
Marshes  
Rivers  
Wetlands

**Bays**  
BT: Coastal inlets  
RT: Barrier spits  
Bay dynamics  
Estuaries  
Inlets (waterways)

BCRs  
USE: **Bioreactors**

**Beach accretion**  
BT: Accretion  
NT: Beach nourishment  
RT: Barrier islands  
Beach erosion  
Beach features  
Beach morphology  
Beach ridges  
Beaches  
Berms  
Deposition features  
Progradation

Beach berms  
USE: **Berms**

**Beach cusps**  
BT: Beach features  
RT: Edge waves  
Longshore currents  
Rip currents  
Shoaling  
Shoaling waves  
Swell

**Beach erosion**  
BT: Coastal erosion  
RT: Beach accretion  
Beach features  
Beach morphology  
Beaches  
Coast defences  
Dune stabilization  
Groynes  
Shore protection  
Tidal effects  
Wave effects

Beach face  
USE: **Foreshore**

**Beach features**  
UF: Backshore  
BT: Topographic features  
NT: Beach cusps

Beach ridges  
 Berms  
 Dunes  
 Foreshore  
 Nearshore bars  
 Rip channels  
 Runnels  
 Spits  
 Surf zone  
 Tombolos  
 Wave-cut platforms

RT: Beach accretion  
 Beach erosion  
 Beach morphology  
 Beach slope  
 Beaches  
 Bed forms  
 Headlands  
 Sand ripples

Beach gradient  
 USE: **Beach slope**

**Beach morphology**  
 UF: Beach processes  
 BT: Coastal morphology  
 RT: Beach accretion  
 Beach erosion  
 Beach features  
 Beach nourishment  
 Beach profiles  
 Beaches  
 Terraces

**Beach nourishment**  
 BT: Beach accretion  
 RT: Beach morphology  
 Longshore sediment transport

Beach platforms  
 USE: **Wave-cut platforms**

Beach processes  
 USE: **Beach morphology**

**Beach profiles**  
 BT: Horizontal profiles  
 RT: Beach morphology  
 Beach slope  
 Beaches  
 Break-point bars  
 Topographic surveying  
 Wave effects

**Beach ridges**  
 BT: Beach features  
 NT: Cheniers  
 RT: Beach accretion  
 Deposition features  
 Shingle

Beach rock  
 USE: **Beachrock**

**Beach seines**  
 BT: Seine nets  
 RT: Boat seines

**Beach slope**  
 UF: Beach gradient  
 BT: Slopes (topography)  
 RT: Beach features  
 Beach profiles  
 Beaches

Beach temperature  
 USE: **Sediment temperature**

**Beaches**  
 UF: Ocean beaches  
 Sandy beaches  
 Shingle beaches  
 BT: Coastal landforms  
 NT: Barrier beaches  
 Raised beaches  
 RT: Beach accretion  
 Beach erosion  
 Beach features  
 Beach morphology  
 Beach profiles  
 Beach slope  
 Coastal zone  
 Coasts  
 Dunes  
 Intertidal environment  
 Littoral zone  
 Recreational waters  
 Runnels  
 Sand  
 Surf  
 Wave processes on beaches

**Beachrock**  
 UF: Beach rock  
 BT: Carbonate rocks

Beacons (distress)  
 USE: **Distress signals**

Beacons (transponders)  
 USE: **Acoustic transponders**

**Beaks**  
 BT: Mouth parts

**Beam transmittance**  
 BT: Transmittance  
 RT: Beam transmittance meters

**Beam transmittance meters**  
 UF: Transparency meters  
 BT: Light measuring instruments  
 RT: Beam transmittance

Beam trawlers  
 USE: **Trawlers**

Beam trawls (bottom)  
 USE: **Bottom trawls**

Beam trawls (midwater)  
 USE: **Midwater trawls**

**Bearing capacity**  
 BT: Strength  
 RT: Compaction  
 Loads (forces)  
 Pile driving  
 Shear strength

**Beaufort scale**  
 UF: Beaufort wind scale  
 RT: Breezes  
 Gale force winds  
 Sea state scales

Beaufort wind scale  
 USE: **Beaufort scale**

Beche-de-mer culture  
 USE: **Sea cucumber culture**

Beche-de-mer fisheries  
 USE: **Sea cucumber fisheries**

**Bed forms**  
 SN: Before 1986 search also  
**BEDFORMS**  
 UF: Bedforms  
 BT: Sedimentary structures  
 NT: Antidunes  
 Gravel waves  
 Mud banks  
 Ploughmarks  
 Pock marks  
 Sand banks  
 Sand bars  
 Sand patches  
 Sand ribbons  
 Sand ripples  
 Sand waves  
 Scour hollows  
 Seachannels  
 Sediment drifts  
 Transverse bed forms  
 RT: Beach features  
 Contour currents  
 Current scouring  
 Dunes  
 Fluvial features  
 Iceberg scouring  
 Nearshore bars  
 Oscillatory flow  
 Sediment-water interface  
 Submarine features  
 Topographic features  
 Wave-seabed interaction  
 Wave scouring

Bed friction  
 USE: **Bottom friction**

**Bed load**  
 UF: Bedload  
 Bottom load  
 Traction load  
 BT: Sediment load  
 RT: River beds  
 Saltation  
 Sediment transport

Shelf geology  
Shelf sedimentation  
Suspended load  
Traction

**Bed roughness**

UF: Bottom roughness  
BT: Roughness  
RT: Bottom friction  
Drag coefficient  
Form drag  
River beds

Bed shear stress

USE: **Bottom stress**

Bed stress

USE: **Bottom stress**

**Bedding structures**

SN: Use of a more specific term is recommended  
BT: Sedimentary structures  
NT: Current marks  
Ripple marks  
Varves

Bedforms

USE: **Bed forms**

Bedload

USE: **Bed load**

BEDs

USE: **By-catch excluder devices**

Behavior

USE: **Behaviour**

**Behaviour**

SN: Use of a more specific term is recommended  
UF: Animal behaviour  
Behavior  
NT: Aggressive behaviour  
Agonistic behaviour  
Avoidance reactions  
Chromatic behaviour  
Cleaning behaviour  
Competitive behaviour  
Display behaviour  
Exploratory behaviour  
Feeding behaviour  
Flight behaviour  
Homing behaviour  
Hydrostatic behaviour  
Learning behaviour  
Migrations  
Orientation behaviour  
Parental behaviour  
Protective behaviour  
Reproductive behaviour  
Segregation  
Settling behaviour  
Sexual behaviour  
Social behaviour  
Surfacing behaviour

Territoriality  
Vocalization behaviour

RT: Activity patterns

Adaptations  
Animal communication  
Antagonism  
Behavioural responses  
Biological rhythms  
Echolocation  
Ethology  
Instinct  
Interspecific relationships  
Intraspecific relationships  
Niches  
Phenology  
Synergism  
Tropism

**Behavioural responses**

SN: As observed in experimental conditions

RT: Behaviour

Stimuli

**Bench marks**

SN: A reference point from which measurements may be indicated or made (e.g. topographic elevations, tidal observations) or a standard, problem or test that serves as a basis for evaluation, judgement or comparison  
UF: Benchmarks (management)  
Benchmarks (surveying)  
RT: Best practices  
Datum levels  
Levelling  
Management  
Quality control  
Sea level measurement  
Standards  
Surveys

Benchmarks (management)

USE: **Bench marks**

Benchmarks (surveying)

USE: **Bench marks**

Bending

USE: **Deformation**

Bends

USE: **Decompression sickness**

Benioff seismic zone

USE: **Benioff zone**

**Benioff zone**

UF: Benioff seismic zone  
BT: Earth structure  
RT: Lithosphere  
Oceanic trenches  
Plate tectonics  
Seismic zones  
Subduction zones

**Benjamin Feir instability**

BT: Instability  
RT: Wave trains

Benthic algae

USE: **Phytobenthos**

**Benthic boundary layer**

UF: Benthic layer  
Bottom boundary layer  
BT: Boundary layers  
RT: Benthic currents  
Bottom Ekman layer  
Bottom mixed layer  
Deep layer  
Water column  
Wave-seabed interaction

Benthic communities

USE: **Benthos**

**Benthic currents**

SN: Water currents at +4000 m depth  
BT: Bottom currents  
RT: Abyssal currents  
Benthic boundary layer  
Bottom Ekman layer

**Benthic environment**

UF: Benthic regions  
BT: Aquatic environment  
NT: Abyssobenthic zone  
Bathyal-benthic zone  
Hyporheic zone  
Littoral zone  
RT: Benthos  
Hard bottom habitats  
Interstitial environment  
Intertidal environment  
Lentic environment  
Lotic environment  
Marine environment  
Sediment-water interface  
Soft bottom habitats  
Substrata  
Vulnerable marine ecosystems

Benthic fauna

USE: **Zoobenthos**

Benthic fish

USE: **Demersal fish**

Benthic flora

USE: **Phytobenthos**

**Benthic fronts**

BT: Oceanic fronts  
RT: Coastal fronts  
Tidal fronts

Benthic infauna

USE: **Burrowing organisms**

Benthic layer  
USE: **Benthic boundary layer**

Benthic regions  
USE: **Benthic environment**

Benthon  
USE: **Benthos**

**Benthos**

UF: Benthic communities  
Benthon  
Epibenthos  
Macrobenthos  
Microbenthos  
BT: Aquatic communities  
NT: Meiobenthos  
Phytobenthos  
Zoobenthos  
RT: Benthic environment  
Benthos collecting devices  
Burrowing organisms  
Demersal fish  
Ecological zonation  
Hard bottom habitats  
Interstitial environment  
Sessile species  
Soft bottom habitats  
Substrata  
Tube dwellers  
Vulnerable marine ecosystems

**Benthos collecting devices**

BT: Collecting devices  
RT: Benthos  
Seafloor sampling

**Bentonite**

BT: Clastics  
RT: Lutites  
Montmorillonite  
Volcanic ash

**Benzene**

BT: Aromatic hydrocarbons

**Berms**

UF: Beach berms  
BT: Beach features  
RT: Beach accretion  
Deposition features  
Sand

**Berthing**

SN: Use for both docking vessel and action of securing vessel to mooring buoy  
UF: Docking  
Mooring ships  
NT: Offshore docking  
RT: Anchoring  
Anchors  
Mooring buoys  
Offshore terminals  
Port operations  
Positioning systems  
Ship mooring systems

**Beryllium**

BT: Alkaline earth metals  
RT: Beryllium isotopes

**Beryllium isotopes**

BT: Isotopes  
RT: Beryllium

**Best management practices**

USE: **Best practices**

**Best practices**

SN: Technique or methodology that through experience and research has proven to be reliable and to lead to a desired result or successful result, including ways to manage land or activities to reduce or prevent pollution of water resources  
UF: Best management practices  
BMP  
RT: Bench marks  
Framework  
Land use  
Management  
Methodology  
Quality  
Standards  
Water management

**Beta-plane**

RT: Coriolis parameters  
Equatorial dynamics  
Rossby parameter  
Vorticity

**Beta spirals**

RT: Coriolis parameters

**Bibliographic information**

UF: Annotation  
Bibliographic studies  
RT: Bibliographies  
Documentation

**Bibliographic studies**

USE: **Bibliographic information**

**Bibliographies**

UF: Reading lists  
BT: Documents  
NT: Personal bibliographies  
RT: Bibliographic information  
Literature reviews

**Bicarbonates**

BT: Carbonates

**Biennial**

BT: Periodicity  
RT: Annual

**Bilateral agreements**

UF: Bilateral aid  
BT: International agreements

RT: Joint ventures

**Bilateral aid**

USE: **Bilateral agreements**

**Bile**

SN: Before 1982 search BODY FLUIDS  
UF: Bile pigments  
Bile salts  
BT: Body fluids  
RT: Fats  
Gall bladder  
Liver

**Bile pigments**

USE: **Bile**

**Bile salts**

USE: **Bile**

**Bilge water**

SN: Water that accumulates in the bilge (lowest) part of a boat. (may contain fresh water, sea water, oil, sludge, chemicals etc.). Its un-treated discharge into the environment is a source of pollution  
UF: Bilgewater  
BT: Vessel wastes  
RT: Ballast

**Bilgewater**

USE: **Bilge water**

**Billfisheries**

USE: **Tuna fisheries**

**Billows**

UF: Kelvin-Helmholtz billows  
BT: Fluid motion  
RT: Internal waves  
Kelvin-Helmholtz instability

**Binders (adhesives)**

USE: **Adhesives**

**Bioaccumulation**

SN: Biological uptake and accumulation or concentration in the tissues  
BT: Accumulation  
Biological phenomena  
RT: Biological uptake  
Excretion  
Lethal effects  
Nanoparticles  
Pollution effects  
Pollution tolerance  
Sublethal effects  
Toxicity tolerance

**Bioacoustics**

BT: Acoustics  
RT: Biological noise  
Biology

Biophysics  
 Biotelemetry  
 Sound production  
 Vocalization behaviour

**Bioactive compounds**

SN: A natural or synthetic compound, with or without nutritional value, causing an effect in an organism. Use of a more specific term is recommended  
 UF: Biologically active compounds  
 BT: Organic compounds  
 NT: Indoles  
 Lectins  
 RT: Antioxidants  
 Complex lipids  
 Diets  
 Fatty acids  
 Feed composition  
 Food additives  
 Glycosides  
 Metabolites  
 Pharmacology  
 Vitamins

**Bioaeration**

SN: Sewage purification by oxidation  
 BT: Aeration  
 Sewage treatment

**Bioassays**

UF: Biological assays  
 BT: Tests  
 RT: Bacteriology  
 Biotesting  
 Immunoassays  
 Test organisms  
 Toxicity tests

**Biocalcarenite**

BT: Carbonate rocks  
 RT: Calcarenite

Biocoenoses

USE: **Biocoenosis**

Biocenosis

USE: **Biocoenosis**

**Biochemical analysis**

BT: Analysis  
 RT: Biochemical composition  
 Biochemistry  
 Electrophoresis  
 Organic constituents

**Biochemical composition**

BT: Composition  
 RT: Biochemical analysis  
 Biochemistry  
 Organic constituents  
 Water content

**Biochemical cycles**

BT: Chemical cycles  
 RT: Biogeochemical cycle  
 Chemical degradation

Biochemical markers

USE: **Biomarkers**

**Biochemical oxygen demand**

SN: Before 1982 search also BIOLOGICAL OXYGEN DEMAND  
 UF: Biological oxygen demand  
 BOD  
 BT: Oxygen demand  
 RT: Aerobic respiration  
 Biochemical phenomena  
 Chemical oxygen demand  
 Coagulation  
 Metabolism  
 Oxygenation  
 Self purification  
 Water quality

**Biochemical phenomena**

NT: Calcification  
 Decalcification  
 Protein denaturation  
 Protein synthesis  
 Replication  
 RT: Biochemical oxygen demand  
 Biochemistry  
 Biodegradation  
 Biological phenomena  
 Chemical reactions  
 Metabolism  
 Nitrogen fixation

Biochemical reactors

USE: **Bioreactors**

**Biochemical substrates**

SN: The material or substance on which an enzyme acts. Before 2016 search SUBSTRATES (BIOCHEMISTRY)  
 UF: Enzyme substrate  
 Substrates (biochemistry)  
 BT: Molecules  
 RT: Enzymatic activity  
 Enzymes

**Biochemistry**

UF: Physiochemistry  
 BT: Chemistry  
 NT: Cytochemistry  
 Histochemistry  
 RT: Biochemical analysis  
 Biochemical composition  
 Biochemical phenomena  
 Biogeochemical cycle  
 Biogeochemistry  
 Enzyme-linked immunosorbent assay  
 Genetic techniques  
 Pharmacology

Physiology  
 Protein sequencing  
 RNA sequencing  
 Sequencing

**Biocides**

SN: A chemical or microorganism that destroys, renders harmless or exerts a controlling effect on living organisms, e.g. pesticides (fungicides, herbicides, insecticides, algicides, molluscicides, miticides and rodenticides), germicides, antibiotics, antibacterials, antivirals, antifungals, antiprotozoals and antiparasites. Before 2016 search also PESTICIDES  
 NT: Antifouling substances  
 Disinfectants  
 Pesticides  
 Preservatives  
 RT: Agents

**Bioclimatology**

SN: The study of the effects of climate on living organisms  
 UF: Biological climatology  
 Biometeorology  
 BT: Climatology  
 RT: Hydroclimate  
 Temperature effects

Biocoenoses

USE: **Biocoenosis**

**Biocoenosis**

SN: A group of plants and animals forming a natural community  
 UF: Biocenoses  
 Biocenosis  
 Biocoenoses  
 RT: Aquatic communities  
 Biota  
 Biotopes  
 Community composition  
 Ecological associations  
 Habitat  
 Microbial mats

Biocommunication

USE: **Animal communication**

Biocontrol

USE: **Biological control**

**Biodegradable substances**

SN: Substances that can be broken down by microorganisms  
 RT: Anaerobic digestion  
 Biodegradation

**Biodegradation**

UF: Microbial degradation  
 BT: Degradation  
 NT: Anaerobic digestion

RT: Biochemical phenomena  
 Biodegradable substances  
 Biogeochemical cycle  
 Biological treatment  
 Decomposers  
 Degeneration  
 Saprobiotics  
 Sewage treatment  
 Sludge treatment  
 Wastewater treatment  
 Water pollution treatment

Biodeposition  
 USE: **Detritus**

Biodeterioration  
 USE: **Biological damage**

**Biodiversity**  
 UF: Ecosystem diversity  
 Habitat diversity  
 RT: Biosecurity  
 Community structure  
 Cryptic species  
 DNA barcoding  
 Ecosystem services  
 Gene banks  
 Genetic diversity  
 Habitat loss  
 River restoration  
 Species diversity

**Bioeconomics**  
 SN: The study of the dynamics of  
 living resources using economic  
 models  
 BT: Economics  
 RT: Living resources  
 Socioeconomic aspects  
 Sustainability

**Bioelectricity**  
 SN: The production of electricity  
 by living animals  
 BT: Biological properties  
 RT: Biophysics  
 Defence mechanisms  
 Electric organs

Bioenergetic studies  
 USE: **Bioenergetics**

**Bioenergetics**  
 SN: Energy transformation in  
 living organisms and aquatic  
 ecosystems. Before 1982 search  
 ENERGY BUDGET  
 UF: Bioenergetic studies  
 RT: Conversion factors  
 Ecosystems  
 Energy budget  
 Food chains  
 Food consumption  
 Metabolism

Bioengineering  
 USE: **Biotechnology**

**Bioerosion**  
 UF: Erosion (biological)  
 RT: Bacteria  
 Biological damage  
 Boring organisms  
 Fungi

**Bioethics**  
 NT: Animal welfare

Bioevolution  
 USE: **Evolution**

**Biofacies**  
 BT: Facies  
 RT: Biostratigraphy  
 Ecology  
 Fossils  
 Palaeontology  
 Sedimentation

**Biofilms**  
 SN: Films formed by  
 microorganisms  
 BT: Surface films  
 NT: Microbial mats  
 RT: Fouling organisms  
 Microorganisms  
 Surface microlayer

**Biofilters**  
 UF: Biological filters  
 Subgravel filters  
 BT: Filters  
 RT: Biofloc technology  
 Recirculating systems  
 Water treatment

**Biofloc technology**  
 SN: Use of aggregates of bacteria,  
 algae, or protozoa, held  
 together in a matrix along with  
 particulate organic matter  
 for the purpose of improving  
 water quality, waste treatment  
 and disease prevention in  
 intensive aquaculture systems.  
 Consumption of bioflocs also  
 provides nutritional value to  
 cultured species  
 BT: Water quality  
 RT: Biofilters  
 Water pollution treatment  
 Water quality control  
 Water treatment

**Biogas**  
 BT: Gases

**Biogenesis**  
 SN: Before 1982 search  
 EVOLUTION  
 BT: Biological phenomena  
 RT: Biogeny  
 Evolution  
 Reproduction

**Biogenic deposits**  
 UF: Biogenic sediments  
 BT: Sediments  
 NT: Coral reefs  
 Organic sediments  
 Siliceous sediments  
 RT: Autochthonous deposits  
 Biogenic material  
 Oozes

**Biogenic material**  
 SN: Material of biological origin  
 UF: Biogenous material  
 BT: Materials  
 RT: Biogenic deposits  
 Detritus  
 Suspended organic matter  
 Trophodynamic cycle

**Biogenic sedimentary structures**  
 BT: Sedimentary structures  
 NT: Algal mats  
 Stromatolites  
 Trace fossils  
 RT: Bioturbation  
 Coral reefs

Biogenic sediments  
 USE: **Biogenic deposits**

Biogenous material  
 USE: **Biogenic material**

**Biogeny**  
 SN: The science of the evolution  
 of organisms, comprising  
 ontogeny and phylogeny.  
 Before 1982 search  
 EVOLUTION  
 NT: Ontogeny  
 Phylogeny  
 RT: Biogenesis  
 Evolution

**Biogeochemical cycle**  
 SN: Complete cycle between  
 organic matter in aquatic  
 ecosystems. Before 1982 search  
 BIOCHEMICAL CYCLE  
 BT: Geochemical cycle  
 NT: Nutrient cycles  
 RT: Biochemical cycles  
 Biochemistry  
 Biodegradation  
 Biogeochemistry  
 Biological clocks  
 Chemical degradation  
 Detritus  
 Oxidation  
 Photosynthesis  
 Primary production  
 Suspended particulate matter

**Biogeochemistry**  
 BT: Geochemistry  
 RT: Biochemistry



- Biogeochemical cycle  
Biology  
Pyrolysis  
Sediment chemistry  
Sulphate reduction
- Biogeography**  
UF: Chorology  
Phytogeography  
Zoogeography  
BT: Geography  
RT: Aquatic animals  
Aquatic plants  
Biological charts  
Biology  
Botany  
Cosmopolite species  
Ecological distribution  
Ecology  
Endemic species  
Endemism  
Faunal provinces  
Hydroclimate  
Ichthyology  
Phytosociology  
Zoology
- Biographies**  
UF: Autobiographies  
BT: Documents
- Bioherms**  
BT: Reefs  
RT: Coral reefs  
Limestone
- Bioindicator organisms  
USE: **Indicator species**
- Bioindicators  
USE: **Indicator species**
- Biological age**  
UF: Age (biological)  
Age (organisms)  
BT: Age  
NT: Age at recruitment  
RT: Biological aging  
Growth  
Life cycle  
Longevity
- Biological aging**  
UF: Ageing (biological)  
Aging (biological)  
Senescence  
BT: Aging  
RT: Age composition  
Age determination  
Biological age  
Growth  
Life cycle  
Longevity
- Biological assays  
USE: **Bioassays**
- Biological attachment**  
UF: Attachment (biological)  
NT: Parasite attachment  
RT: Attachment organs
- Biological balance  
USE: **Ecological balance**
- Biological charts**  
SN: Distributional charts of aquatic organisms, aquatic communities, living resources and their migrations  
BT: Maps  
RT: Aquatic communities  
Biogeography  
Distribution records  
Geographical distribution  
Quantitative distribution
- Biological classification  
USE: **Taxonomy**
- Biological climatology  
USE: **Bioclimatology**
- Biological clocks**  
RT: Biogeochemical cycle  
Biological rhythms
- Biological collections**  
SN: Museum collections and comparative collections of aquatic organisms  
BT: Collections  
NT: Gene banks  
Gene libraries
- Biological competition  
USE: **Competition**
- Biological contamination  
USE: **Microbial contamination**
- Biological control**  
SN: Use of organisms or viruses to control parasites, aquatic weeds or other pests  
UF: Biocontrol  
BT: Control  
RT: Biological vectors  
Biomaniipulation  
Fouling control  
Pest control  
Plant control  
Predator control  
Protozoan diseases  
Viral diseases
- Biological corrosion  
USE: **Biological damage**
- Biological culture  
USE: **Laboratory culture**
- Biological damage**  
SN: Damage caused by aquatic organisms  
UF: Biodeterioration  
Biological corrosion  
Biological deterioration  
Damage (biological)  
BT: Damage  
RT: Bioerosion  
Boring organisms  
Dangerous organisms  
Fouling organisms
- Biological data**  
BT: Data  
RT: Biological sampling  
Biological surveys  
Capture-recapture studies  
Census
- Biological dating  
USE: **Age determination**
- Biological deterioration  
USE: **Biological damage**
- Biological development**  
SN: Restricted to development processes of organisms. Before 1982 search DEVELOPMENT (BIOLOGICAL).  
UF: Development (biological)  
NT: Embryonic development  
Larval development  
RT: Developmental stages  
Growth  
Life cycle  
Ontogeny
- Biological drift**  
UF: Drift (biological)  
BT: Dispersion  
RT: Biotic barriers  
Wind-driven currents
- Biological engineering  
USE: **Biotechnology**
- Biological equilibrium  
USE: **Ecological balance**
- Biological fertilization**  
UF: External fertilization  
Fertilization (biological)  
Internal fertilization  
Reproductive fertilization  
Syngamy  
BT: Sexual reproduction  
RT: Polyspermy  
Sexual cells  
Spermatophores
- Biological filters  
USE: **Biofilters**

**Biological grading**

SN: Before 2016 search  
 GRADING  
 UF: Grading (biological)  
 BT: Biological sampling  
 NT: Age grading  
 Fish grading  
 Size grading (organisms)  
 Weight grading

**Biological half life**

SN: Time required by the body to eliminate one-half of the administered dose of any substance by regular process of elimination  
 UF: Biological half time  
 Half life (biological)  
 Half life (effective)  
 RT: Body burden  
 Radionuclide kinetics

Biological half time

USE: **Biological half life**

Biological indicators

USE: **Indicator species**

**Biological institutions**

BT: Research institutions  
 RT: Limnological institutions  
 Oceanographic institutions

Biological limnology

USE: **Freshwater ecology**

Biological markers

USE: **Biomarkers**

**Biological membranes**

UF: Membranes (biological)  
 BT: Membranes  
 RT: Cell membranes  
 Ion exchange  
 Ion transport

**Biological noise**

SN: Sound emitted by marine animals present on echo trace  
 UF: Fish sounds  
 Marine biological noise  
 BT: Ambient noise  
 RT: Bioacoustics  
 Sound production  
 Sound waves

Biological oceanography

USE: **Marine ecology**

Biological oxygen demand

USE: **Biochemical oxygen demand**

**Biological phenomena**

UF: Phenomena (biological)  
 NT: Adaptations

Allergic reactions  
 Bioaccumulation  
 Biogenesis  
 Biological rhythms  
 Biosynthesis  
 Degeneration  
 Encystment  
 Evolution  
 Metamorphosis  
 Mutations  
 Regeneration  
 RT: Biochemical phenomena  
 Bioluminescence  
 Interspecific relationships  
 Intraspecific relationships

**Biological poisons**

SN: Before 1982 search  
 POISONS (BIOLOGICAL)  
 UF: Biological toxins  
 Biotoxins  
 Poisons (biological)  
 Toxins  
 Venoms  
 BT: Hazardous materials  
 NT: Ciguatoxin  
 Endotoxins  
 Neurotoxins  
 Tetrodotoxin  
 RT: Algal blooms  
 Antibodies  
 Detoxification  
 Lethal effects  
 Lethal limits  
 Metabolites  
 Poisonous organisms  
 Red tides  
 Sublethal effects  
 Toxicity  
 Toxicology  
 Venom apparatus

**Biological pollutants**

SN: Pollutants having a biological origin  
 BT: Pollutants  
 RT: Biological production  
 Culture effects  
 Microbial contamination

Biological polymorphism

USE: **Biopolymorphism**

**Biological production**

SN: Organic production in aquatic environment, including dynamic parameters. Before 1982 search  
 PRODUCTION (BIOLOGICAL)  
 UF: Natural increase  
 Natural production  
 Organic production  
 Production (biological)  
 Production rate  
 NT: Primary production  
 Secondary production  
 RT: Biological pollutants

Biomass  
 Density dependence  
 Ecosystems  
 Environmental effects  
 Fertility  
 Food webs  
 Nutrient cycles  
 Nutrients (mineral)  
 Oxygen demand  
 Plankton equivalents  
 Trophic levels  
 Trophodynamic cycle  
 Yield

**Biological properties**

BT: Properties  
 NT: Bioelectricity  
 Biological resistance  
 Biological traits  
 Euryhalinity  
 Eurythermy  
 Fecundity  
 Heterosis  
 Homoiothermy  
 Immunity  
 Longevity  
 Neoteny  
 Poikilothermy  
 Sexual maturity  
 Stenohalinity  
 Stenothermy  
 Tolerance  
 Toxicity  
 Vulnerability  
 RT: Bioluminescence  
 Fluorescence  
 Instinct  
 Phosphorescence  
 Physicochemical properties  
 Vulnerable marine ecosystems

**Biological rafting**

SN: Transport of sediment by aquatic organisms  
 BT: Rafting  
 RT: Bioturbation  
 Sediments

**Biological resistance**

SN: Use of a more specific term is recommended  
 UF: Resistance (biological)  
 BT: Biological properties  
 NT: Cold resistance  
 Control resistance  
 Disease resistance  
 Drought resistance  
 Drug resistance  
 Parasite resistance  
 RT: Biological traits  
 Ecophysiology  
 Environmental effects  
 Resistance mechanisms  
 Tolerance

Biological resources

USE: **Living resources**

**Biological rhythms**

SN: A repeated cyclic change in the behaviour of organisms  
 UF: Biorhythms  
 Endogenous rhythms  
 Rhythms (biological)  
 BT: Biological phenomena  
 NT: Circadian rhythms  
 Nyctimeral rhythms  
 RT: Activity patterns  
 Autecology  
 Behaviour  
 Biological clocks  
 Ecological distribution  
 Phenology  
 Photoperiodicity  
 Vertical migrations

**Biological sampling**

SN: Sampling methods and techniques for aquatic animals and plants. Before 1982 search SAMPLING (BIOLOGICAL).  
 UF: Sampling (biological)  
 BT: Sampling  
 NT: Biological grading  
 Capture-recapture studies  
 RT: Biological data  
 Biological surveys  
 Biometrics  
 Census  
 Collecting devices  
 Statistical sampling

Biological sciences

USE: **Biology**

Biological selection

USE: **Bioselection**

**Biological settlement**

SN: Before 1982 search SETTLEMENT (BIOLOGICAL)  
 UF: Settlement (biological)  
 NT: Algal settlements  
 Larval settlement  
 RT: Colonization  
 Settling behaviour  
 Substrate preferences

**Biological speciation**

SN: Before 1982 search SPECIATION (BIOLOGICAL)  
 UF: Speciation (biological)  
 RT: Bioselection  
 Breeding  
 Ecotypes  
 Evolution  
 Genetics  
 Isolating mechanisms  
 Lectotype  
 Mutations  
 New species  
 Phylogenetics  
 Phylogeny

Population genetics  
 Species  
 Species identification  
 Taxonomy

**Biological stress**

SN: Physiological condition of a tissue, organ or organism which is unable to respond normally to a stimulus without rest. Before 1982 search FATIGUE (BIOLOGICAL)  
 UF: Fatigue (biological)  
 Stress (biological)  
 Stress (physiological)  
 NT: Coral bleaching  
 RT: Stimuli  
 Stress (mechanics)

**Biological surveys**

BT: Surveys  
 NT: Plankton surveys  
 RT: Biological data  
 Biological sampling  
 Community composition  
 Environmental surveys

Biological testing

USE: **Biotesting**

Biological tissues

USE: **Tissues**

Biological toxins

USE: **Biological poisons**

**Biological traits**

SN: Distinguishing features that reflect physiological requirements, morphological adaptations, and life histories innate to an organism. Usually referred to in papers dealing with ecology or morphology  
 UF: Effect traits  
 Functional traits  
 Response traits  
 Species traits  
 BT: Biological properties  
 RT: Adaptations  
 Biological resistance  
 Environmental effects  
 Genotypes  
 Life history  
 Phenotypes  
 Tolerance

Biological transplantation

USE: **Transplants**

**Biological treatment**

SN: Systems that use microorganisms to degrade organic contaminants from wastewater  
 UF: Biological wastewater treatment

BT: Waste treatment

RT: Biodegradation

Organic wastes

Sewage treatment

Waste water

Wastewater treatment

**Biological uptake**

SN: The incorporation/absorption in a living tissue or organism of chemicals of substances from the environment, which can be evaluated by measuring their accumulation  
 UF: Uptake (biological)  
 RT: Bioaccumulation  
 Dissolved oxygen  
 Food absorption  
 Ingestion  
 Nutrients (mineral)  
 Oxygen  
 Pollution effects  
 Sorption  
 Water

**Biological vectors**

SN: Organisms serving as passive carrier of a disease agent. Before 1982 search VECTORS (BIOLOGICAL)  
 BT: Vectors  
 RT: Biological control  
 Hosts  
 Parasites  
 Parasitic diseases  
 Protozoan diseases

Biological wastewater treatment

USE: **Biological treatment**

Biologically active compounds

USE: **Bioactive compounds**

**Biologists**

UF: Aquatic biologists  
 Hydrobiologists  
 BT: Scientific personnel  
 NT: Algologists  
 Botanists  
 Fishery biologists  
 Microbiologists  
 Taxonomists  
 Zoologists  
 RT: Biology

**Biology**

SN: Before 1982 search BIOLOGICAL SCIENCES. Use of a more specific term is recommended  
 UF: Biological sciences  
 Life sciences (biology)  
 NT: Anatomy  
 Botany  
 Cryobiology  
 Cytology  
 Embryology

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- Fishery biology  
 Functional morphology  
 Genetics  
 Haematology  
 Histology  
 Hydrobiology  
 Microbiology  
 Molecular biology  
 Organism morphology  
 Physiology  
 Zoology  
 RT: Bioacoustics  
 Biogeochemistry  
 Biogeography  
 Biologists  
 Biophysics  
 Biotechnology  
 Ecology  
 Life history
- Bioluminescence**  
 SN: Biological fluorescence and phosphorescence produced by photogenic or luminous organs or organisms  
 BT: Luminescence  
 RT: Biological phenomena  
 Biological properties  
 Chemiluminescence  
 Fluorescence  
 Phosphorescence  
 Photophores
- Bio-manipulation**  
 SN: The deliberate alteration of an ecosystem by adding or removing species  
 BT: Restoration  
 RT: Biological control  
 Ecosystem management  
 Food webs  
 Habitat improvement (biological)  
 Water pollution treatment
- Biomarkers**  
 SN: A characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes or pharmacological responses to a therapeutic intervention. Use of a more specific term is recommended  
 UF: Biochemical markers  
 Biological markers  
 Histological markers  
 Physiological markers  
 NT: Genetic markers  
 RT: Body conditions  
 Immunology  
 Physiology
- Biomass**  
 UF: Live weight
- Population abundance (in weight)  
 Population size (in weight)  
 Standing crop (in weight)  
 Standing stock (in weight)  
 BT: Population characteristics  
 NT: Spawning stock biomass  
 RT: Abundance  
 Biological production  
 Plankton equivalents  
 Population density  
 Population number  
 Quantitative distribution  
 Surplus production  
 Yield  
 Yield-per-recruit
- Biostatistics**  
 USE: **Biometrics**
- Biometeorology**  
 USE: **Bioclimatology**
- Biometrics**  
 UF: Biomathematics  
 Biometry  
 Biostatistics  
 RT: Biological sampling  
 Community structure  
 Mathematics  
 Numerical taxonomy  
 Statistical analysis  
 Statistics
- Biometry**  
 USE: **Biometrics**
- Bionomics**  
 USE: **Ecology**
- Biophysics**  
 BT: Physics  
 RT: Bioacoustics  
 Bioelectricity  
 Biology  
 Physiology
- Bioplasm**  
 USE: **Cytoplasm**
- Biopolymorphism**  
 SN: Before 1982 search  
 POLYMORPHISM (BIOLOGICAL)  
 UF: Balanced polymorphism  
 Biological polymorphism  
 Genetic polymorphism  
 Polymorphism (biological)  
 Transient polymorphism  
 NT: Cyclomorphosis  
 RT: Organism morphology  
 Population genetics  
 Sexual dimorphism
- Bioreactors**  
 UF: BCRs  
 Biochemical reactors
- RT: Bioremediation  
 Mine tailings  
 Mineral industry  
 Mining  
 Water pollution treatment
- Bioremediation**  
 SN: The use of organisms to treat pollutants or wastes  
 RT: Bioreactors  
 Environmental protection  
 Pollution control  
 Waste treatment  
 Water pollution treatment
- Biorhythms**  
 USE: **Biological rhythms**
- Biosecurity**  
 SN: Approach to analysing and managing risks in the sectors of food safety, animal life and health, and plant life and health, including associated environmental risks such as introduction of plant/animal pests and diseases and zoonoses, the introduction/release of genetically modified organisms and their products, and the introduction/management of invasive alien species and genotypes  
 RT: Biodiversity  
 Food-chain approach  
 Food safety  
 Introduced species  
 Public health  
 Risk management
- Bioselection**  
 UF: Biological selection  
 Selection (biological)  
 NT: Genetic drift  
 Natural selection  
 Sexual selection  
 RT: Biological speciation  
 Culling  
 Evolution  
 Genetic distance  
 Mutations  
 Phylogeny
- Biosociology**  
 USE: **Synecology**
- Biostatistics**  
 USE: **Biometrics**
- Biostratigraphy**  
 BT: Stratigraphy  
 RT: Biofacies  
 Fossil assemblages
- Biosynthesis**  
 BT: Biological phenomena  
 RT: Biotechnology

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Chemosynthesis  
Enzymatic activity  
Pearls  
Photosynthesis

**Biota**

SN: Collective flora and fauna of a given region, a specific habitat or a biotope  
RT: Aquatic communities  
Biocoenosis  
Biotopes  
Community composition  
Fauna  
Flora  
Habitat  
Microbial mats

**Biotechnology**

SN: Engineering methods of achieving biosynthesis of animal and plant products, including genetic engineering. Before 1986 search also BIOENGINEERING  
UF: Bioengineering  
Biological engineering  
Genetic engineering  
BT: Technology  
RT: Biology  
Biosynthesis  
Biotelemetry  
DNA fingerprinting  
Genetic techniques  
Genetically modified organisms  
Medicine  
Microinjection  
Ultrastructure

**Biotelemetry**

SN: Instrumentation and application of the technique of remote signaling by means of ultrasonic or radio signals from a transmitter on or in an animal. Before 1982 search TELEMETRY  
UF: Marine biotelemetry  
Underwater biotelemetry  
BT: Telemetry  
RT: Bioacoustics  
Biotechnology  
Sonic tags  
Tagging  
Tracking

**Biotesting**

SN: Bioassays for testing degree of toxicity  
UF: Biological testing  
BT: Testing  
RT: Bioassays  
Lethal effects  
Sublethal effects  
Toxicity  
Toxicity tests

**Biotic barriers**

SN: Biotic limitations affecting the dispersal and/or survival of organisms  
UF: Barriers (biological)  
RT: Barriers  
Biological drift  
Biotic factors

**Biotic diseases**

USE: **Infectious diseases**

**Biotic environment**

USE: **Biotic factors**

**Biotic factors**

SN: Before 1982 search ENVIRONMENTAL FACTORS  
UF: Biotic environment  
Density-dependent factors  
BT: Environmental factors  
RT: Biotic barriers  
Density dependence  
Food availability  
Group effects  
Interspecific relationships  
Stocking density

**Biotic natural resources**

USE: **Living resources**

**Biotic pressure**

SN: Activities of an enlarging population to maintain itself and spread  
UF: Population pressure  
Pressure (populations)  
RT: Competition  
Food availability  
Natural mortality  
Population control  
Population density

**Biotin**

USE: **Vitamin B**

**Biotite**

BT: Micas  
RT: Kimberlites

**Biotopes**

BT: Habitat  
RT: Aquatic environment  
Biocoenosis  
Biota  
Ecological associations  
Microbial mats  
Microhabitats  
Niches

**Biotoxins**

USE: **Biological poisons**

**Bioturbation**

SN: Sediments disturbance by organisms

BT: Sediment mixing  
RT: Biogenic sedimentary structures  
Biological rafting  
Burrowing organisms  
Diagenesis  
Mixing processes  
Sediments

**Bipolar distribution**

UF: Bipolarity  
BT: Horizontal distribution

**Bipolarity**

USE: **Bipolar distribution**

**Bird eggs**

BT: Eggs  
RT: Albumins  
Clutch  
Nesting  
Nests

**Bird entanglement**

BT: Entanglement

**Bird flight behaviour**

USE: **Flight behaviour**

**Bird flying**

USE: **Flying**

**Bird navigation**

USE: **Animal navigation**

**Bird physiology**

USE: **Avian physiology**

**Birds (aquatic)**

USE: **Aquatic birds**

**Birds (marine)**

USE: **Marine birds**

**Birnessite**

BT: Oxide minerals

**Birth**

USE: **Parturition**

**Bisexuality**

USE: **Hermaphroditism**

**Bismuth**

BT: Heavy metals  
RT: Bismuth compounds  
Bismuth isotopes

**Bismuth compounds**

BT: Chemical compounds  
RT: Bismuth

**Bismuth isotopes**

BT: Isotopes  
RT: Bismuth

## ASFA THESAURUS

### Bitumens

UF: Pitch (mineral)  
BT: Petroleum hydrocarbons  
RT: Oil sands  
Petroleum residues

### Bivalve culture

BT: Mollusc culture  
NT: Clam culture  
Mussel culture  
Oyster culture  
Scallop culture

Black water rivers

USE: **Blackwater rivers**

### Blackwater rivers

SN: Considered some of the cleanest natural waters in the world, blackwater rivers are very low in dissolved minerals and often have no measurable water hardness  
UF: Black water rivers  
BT: Rivers  
RT: Classification  
Clearwater rivers  
River water  
Sediment transport  
Water colour  
Whitewater rivers

### Bladders

SN: Any membrane sac containing gas or fluid  
BT: Animal organs  
NT: Gall bladder  
Swim bladder  
RT: Excretory organs

### Blasting

SN: Controlled use of explosives  
RT: Detonators  
Explosions  
Explosives

Blastospores

USE: **Spores**

Bleached minerals

USE: **Bleached rocks**

### Bleached rocks

UF: Bleached minerals  
Bleaching (geological)  
BT: Rocks

Bleaching (coral)

USE: **Coral bleaching**

Bleaching (geological)

USE: **Bleached rocks**

### Bleaching wastes

SN: Wastes from paper, pulp or textile mills which contain bleaching agents

BT: Industrial wastes

RT: Chlorinated hydrocarbons

Pulp wastes

Wastes

Water treatment

Blind spot

USE: **Retinas**

Block fillets

USE: **Fish fillets**

### Blood

UF: Blood liquids

Plasma (blood)

BT: Body fluids

RT: Albumins

Blood cells

Blood circulation

Blood groups

Blood vessels

Circulatory system

Connective tissues

Haematology

Haemocyanins

Hypercapnia

Lipoproteins

Myoglobins

Serological studies

### Blood cells

UF: Haematoblasts

BT: Cells

NT: Erythrocytes

Hepatocytes

Leukocytes

Lymphocytes

Macrophages

RT: Agglutinins

Antigens

Blood

Cholesterol

Haemoglobins

Haemopoiesis

Blood chemistry

USE: **Haematology**

### Blood circulation

UF: Blood flow

BT: Circulation

RT: Blood

Blood pressure

Blood vessels

Circulatory system

Heart

Blood diseases

USE: **Haematological diseases**

Blood flow

USE: **Blood circulation**

### Blood groups

SN: Types of blood classified on the basis of the different antigens present

UF: Blood types

RT: Antigens

Blood

Haematology

Blood liquids

USE: **Blood**

### Blood pressure

BT: Pressure

RT: Blood circulation

Circulatory system

Blood types

USE: **Blood groups**

### Blood vessels

UF: Arteries

Veins

Venules

BT: Circulatory system

RT: Blood

Blood circulation

Connective tissues

Haemorrhage

Heart

### Blooms

SN: Huge numbers of plants or animals that appear suddenly

NT: Algal blooms

Ctenophore blooms

Jellyfish blooms

Salp blooms

RT: Phytoplankton

Zooplankton

### Blowout control

BT: Control

RT: Blowout preventers

Blowouts

### Blowout preventers

RT: Blowout control

Blowouts

Wellheads

### Blowouts

SN: Pertains to oil and gas well blowouts

UF: Gas well blowouts

Oil well blowouts

RT: Blowout control

Blowout preventers

Fire

Fire hazards

### Blubber

SN: The fat of aquatic mammals, especially referring to whales and seals

BT: Adipose tissue

RT: Body conditions

Lipids

Marine mammals

## ASFA THESAURUS

### Blue whale unit

UF: BWU  
 RT: Quota regulations  
 Whaling  
 Whaling regulations  
 Whaling statistics

### Blueprints

USE: **Engineering drawings**

### Bluewater rivers

USE: **Clearwater rivers**

### BMP

USE: **Best practices**

### Boat building

USE: **Ship technology**

### Boat dredges

USE: **Dredges**

### Boat seines

UF: Danish seines  
 Pair seines  
 Scottish seines  
 BT: Seine nets  
 RT: Beach seines

### Boat wastes

USE: **Vessel wastes**

### Boating

UF: Canoeing  
 Sailing  
 BT: Recreation  
 NT: Yachting

### Boats

UF: Rafts  
 BT: Surface craft  
 NT: Canoes  
 Catamarans  
 Lifeboats  
 Motor boats  
 Row boats  
 RT: Dredges

### BOD

USE: **Biochemical oxygen demand**

### Body burden

SN: The amount of radioactive material present in the body of a human or animal  
 RT: Biological half life  
 Pollutants  
 Radioactive contamination  
 Radionuclide kinetics

### Body cavities

SN: Before 1982 search BODY CAVITY  
 NT: Coelom  
 Mantle cavity  
 RT: Body walls

### Haemolymph

### Body conditions

UF: Fat content  
 RT: Adipose tissue  
 Biomarkers  
 Blubber  
 Body weight  
 Condition factor  
 Nutritional requirements

### Body deformations

USE: **Abnormalities**

### Body fat

USE: **Adipose tissue**

### Body fluids

UF: Body liquids  
 BT: Fluids  
 NT: Bile  
 Blood  
 Coelomic fluids  
 Haemolymph  
 Lymph  
 Mucus  
 Serum  
 Urine  
 RT: Amoebocytes  
 Colloids

### Body liquids

USE: **Body fluids**

### Body organs

SN: A part of an organism that forms a structural and functional unit  
 UF: Organs (body)  
 BT: Anatomical structures  
 NT: Animal organs  
 Attachment organs  
 Plant organs  
 RT: Organ removal  
 Organogenesis  
 Regeneration  
 Transplants

### Body regions

UF: Animal body regions  
 BT: Anatomical structures  
 NT: Abdomen  
 Anus  
 Cephalothorax  
 Head  
 Thorax  
 RT: Animal morphology  
 Animal organs  
 Body shape  
 Body size

### Body shape

RT: Adipose tissue  
 Body regions  
 Body size  
 Body weight  
 Length-weight relationships

### Body size

RT: Adipose tissue  
 Animal morphology  
 Body regions  
 Body shape  
 Body weight  
 Length-weight relationships

### Body temperature

BT: Temperature  
 RT: Aestivation  
 Heat balance  
 Hibernation  
 Homoiothermy  
 Hyperthermia  
 Hypothermia  
 Metabolism  
 Poikilothermy  
 Thermal stimuli  
 Thermoregulation

### Body walls

NT: Mantle  
 RT: Body cavities  
 Skin

### Body waves

SN: Use of a more specific term is recommended  
 BT: Seismic waves  
 NT: P-waves  
 S-waves

### Body weight

RT: Adipose tissue  
 Body conditions  
 Body shape  
 Body size  
 Length-weight relationships

### Boehmite

BT: Oxide minerals

### Bogs

SN: A bog is a domed land form, higher than the surrounding landscape, which obtains most of its water from rainfall. It is always acidic and nutrient-poor. Before 2016 search MARSHEs  
 BT: Mires  
 NT: Muskeg  
 RT: Fens  
 Marshes  
 Swamps

### Boil disease

SN: Before 1982 search PARASITIC DISEASES  
 UF: Bubonic disease  
 Fish furunculosis  
 Furunculosis  
 Red boil disease  
 BT: Fish diseases  
 RT: Bacterial diseases  
 Parasitic diseases

ASFA THESAURUS

**Boiling point**

BT: Transition temperatures

**Boluses**

BT: Water mass intrusions  
RT: Cascading  
Overflow

**Bonding**

USE: **Adhesion**

**Bone necrosis**

UF: Osteonecrosis  
RT: Diving physiology  
Underwater medicine

**Bones**

BT: Endoskeleton  
NT: Skull  
Vertebrae  
RT: Calcification  
Connective tissues  
Decalcification  
Osteology  
Otoliths

**Bonito fisheries**

USE: **Tuna fisheries**

**Bony fins**

UF: Bony rays  
BT: Fins  
RT: Exoskeleton  
Meristic counts

**Bony rays**

USE: **Bony fins**

**Book catalogues**

SN: Use only for listings of books,  
periodicals, etc. issued by  
publishers and antiquarian  
dealers  
BT: Catalogues

**Boomerang corers**

USE: **Corers**

**Booms**

USE: **Floating barriers**

**Booster stations**

USE: **Pump stations**

**Bora**

USE: **Local winds**

**Borate minerals**

UF: Borates  
BT: Minerals  
NT: Borax  
RT: Boron  
Evaporites

**Borates**

USE: **Borate minerals**

**Borax**

BT: Borate minerals

**Borderland (continental)**

USE: **Continental margins**

**Boreholes**

UF: Drill holes  
RT: Cores  
Drilling  
Hole re-entry  
Well logging

**Borers**

USE: **Boring organisms**

**Bores**

USE: **Tidal bores**

**Bores in estuaries**

USE: **Tidal bores**

**Boric acid**

SN: Before 1982 search  
INORGANIC ACIDS  
BT: Inorganic acids  
RT: Boron  
Boron compounds

**Boring**

USE: **Drilling**

**Boring organisms**

UF: Borers  
BT: Aquatic organisms  
RT: Aquatic insects  
Bioerosion  
Biological damage  
Fouling organisms

**Boron**

BT: Nonmetals  
RT: Borate minerals  
Boric acid  
Boron compounds  
Boron isotopes

**Boron compounds**

BT: Chemical compounds  
RT: Boric acid  
Boron  
Organic compounds

**Boron isotopes**

BT: Isotopes  
RT: Boron

**Botanical resources**

UF: Algae resources  
Aquatic botanical resources  
Aquatic plant resources  
Plant resources  
Seagrass resources  
Seaweed resources  
BT: Living resources  
NT: Plant strains

RT: Aquatic plants

**Botanists**

BT: Biologists  
RT: Botany  
Taxonomists

**Botany**

UF: Phytology  
BT: Biology  
NT: Algology  
RT: Aquatic plants  
Biogeography  
Botanists  
Palaeontology  
Palynology  
Phytoplankton  
Phytosociology  
Plant culture  
Plant physiology  
Species  
Taxonomy

**Bottle post**

USE: **Drift bottles**

**Bottom boundary layer**

USE: **Benthic boundary layer**

**Bottom cages**

USE: **Submerged cages**

**Bottom crawlers**

USE: **Seabed vehicles**

**Bottom culture**

UF: Seabed farming  
BT: Aquaculture techniques  
RT: Shellfish culture

**Bottom currents**

SN: Before 1982 search DEEP  
CURRENTS  
UF: Near-bottom currents  
BT: Water currents  
NT: Abyssal currents  
Benthic currents  
RT: Bottom erosion  
Current scouring  
Deep currents  
Density flow  
Lake currents  
Ocean currents  
Scouring  
Seabed drifters  
Sediment drifts  
Shelf seas  
Subsurface currents  
Turbidity currents

**Bottom Ekman layer**

BT: Ekman layers  
RT: Benthic boundary layer  
Benthic currents



**Bottom erosion**

UF: Deep-sea erosion  
 Submarine erosion  
 Underwater erosion  
 BT: Erosion  
 RT: Bottom currents  
 Contour currents  
 Current scouring  
 Deep-sea furrows  
 Hiatuses  
 Microtopography  
 Seachannels  
 Wave scouring

Bottom features

USE: **Submarine features**

**Bottom friction**

UF: Bed friction  
 BT: Friction  
 RT: Bed roughness  
 Bottom stress  
 Form drag  
 River beds  
 Tidal friction  
 Wave dissipation

Bottom load

USE: **Bed load**

**Bottom mixed layer**

BT: Mixed layer  
 RT: Benthic boundary layer  
 Bottom water  
 Deep layer

**Bottom photographs**

SN: Photographs of the seabed  
 UF: Seabed photographs  
 BT: Underwater photographs

**Bottom pressure**

BT: Hydrostatic pressure  
 RT: Hurricanes  
 Wave-seabed interaction

**Bottom reverberation**

BT: Reverberation  
 RT: Bottom scattering

Bottom roughness

USE: **Bed roughness**

Bottom sampling

USE: **Seafloor sampling**

**Bottom scattering**

BT: Sound scattering  
 RT: Bottom reverberation

**Bottom stress**

UF: Bed shear stress  
 Bed stress  
 BT: Stress (mechanics)  
 RT: Bottom friction  
 Drag  
 Reynolds stresses

Sediment dynamics  
 Sediment transport  
 Shear stress

**Bottom temperature**

BT: Water temperature  
 RT: Potential temperature

**Bottom topography**

SN: The general configuration of the ocean floor  
 UF: Ocean bottom topography  
 Ocean floor topography  
 Sea floor topography  
 Underwater topography  
 BT: Topography (geology)  
 NT: Palaeotopography  
 RT: Bathymetry  
 Bottom topography effects  
 Echosounding  
 Isobaths  
 Morphometry  
 Ocean basins  
 Ocean floor  
 Physiographic provinces  
 Sediment distribution  
 Submarine features

**Bottom topography effects**

SN: Influence of bottom topography on general ocean circulation, currents and waves  
 BT: Topographic effects  
 RT: Abyssal circulation  
 Bottom topography  
 Ocean circulation  
 Water currents  
 Wave refraction

**Bottom tow**

BT: Pipeline construction  
 RT: Ocean floor

Bottom trapped waves

USE: **Trapped waves**

**Bottom trawling**

UF: Dredging (catching methods)  
 BT: Trawling  
 RT: Bottom trawls  
 Demersal fisheries

**Bottom trawls**

UF: Beam trawls (bottom)  
 Dragging nets  
 Otter trawls (bottom)  
 Pair trawls (bottom)  
 BT: Trawl nets  
 RT: Bottom trawling  
 Codends

**Bottom water**

SN: The water in the bottom layer of the sea, lakes, reservoirs or other water bodies. For deep water masses such as Antarctic

Bottom Water, use DEEP-WATER MASSES

BT: Water

RT: Bottom mixed layer  
 Deep-water masses  
 Surface water

Bottom water masses

USE: **Deep-water masses**

**Botulism**

SN: Bacterial food-borne intoxication  
 UF: Botulism hazard  
 BT: Bacterial diseases  
 Human diseases  
 RT: Food poisoning  
 Microbial contamination  
 Neurotoxins

Botulism hazard

USE: **Botulism**

**Boudinage**

BT: Sedimentary structures  
 RT: Deformation  
 Melanges

**Bouguer anomalies**

BT: Gravity anomalies  
 RT: Bouguer gravity charts

Bouguer correction

USE: **Gravity corrections**

**Bouguer gravity charts**

BT: Gravity charts  
 RT: Bouguer anomalies

**Boulder clay**

UF: Till  
 BT: Glacial deposits  
 RT: Clastics  
 Rudites

**Boulders**

BT: Clastics  
 Sedimentary rocks  
 RT: Cobblestone  
 Glacial erratics  
 Rudites

**Boundaries**

UF: Boundary line  
 Territorial boundaries  
 NT: Fishery boundaries  
 International boundaries  
 RT: Interfaces  
 Plate boundaries  
 Surfaces

**Boundary conditions**

RT: Mathematical models

**Boundary currents**

BT: Water currents  
 NT: Eastern boundary currents

Western boundary currents  
RT: Ocean currents  
Wind-driven currents

**Boundary layers**

BT: Layers  
NT: Atmospheric boundary layer  
Benthic boundary layer  
Coastal boundary layer  
Ekman layers  
Laminar boundary layer  
Oceanic boundary layer  
Turbulent boundary layer  
RT: Heat transfer  
Hydrodynamics  
Interfaces

Boundary line

USE: **Boundaries**

**Boundary value problems**

UF: Initial value problems  
RT: Finite element method  
Numerical analysis

**Boussinesq approximation**

BT: Approximation

**Bowen ratio**

BT: Ratios  
RT: Air-water exchanges  
Evaporation  
Heat budget  
Latent heat transfer  
Sensible heat transfer  
Vapour pressure

Boxes

USE: **Containers**

**Brackish water**

BT: Water  
RT: Brackishwater aquaculture  
Brackishwater environment  
Brackishwater pollution

**Brackishwater aquaculture**

SN: Referring to culture of fish and other aquatic organisms in coastal lagoons, deltas, estuaries and mangrove swamps  
UF: Brackishwater culture  
Estuarine aquaculture  
BT: Aquaculture  
RT: Algal culture  
Bait culture  
Brackish water  
Brackishwater crustaceans  
Brackishwater ecology  
Brackishwater fish  
Brackishwater molluscs  
Brackishwater organisms  
Cage culture  
Extensive culture  
Fish culture  
Seaweed culture  
Shellfish culture

Valliculture

Brackishwater crab culture

USE: **Crab culture**

**Brackishwater crustaceans**

UF: Crustaceans (brackishwater)  
Estuarine crustaceans  
BT: Aquatic crustaceans  
Brackishwater invertebrates  
RT: Brackishwater aquaculture  
Crustacean culture  
Crustacean fisheries  
Shellfish

Brackishwater culture

USE: **Brackishwater aquaculture**

**Brackishwater ecology**

BT: Ecology  
RT: Aquatic communities  
Brackishwater aquaculture  
Brackishwater environment  
Brackishwater fish  
Brackishwater organisms  
Brackishwater pollution  
Coastal lagoons  
Mangrove swamps

**Brackishwater environment**

UF: Estuarine environment  
BT: Aquatic environment  
RT: Brackish water  
Brackishwater ecology  
Coastal lagoons  
Deltas  
Estuaries  
Eutrophic waters  
Inland water environment  
Lagoons  
Mangrove swamps  
Marine environment

**Brackishwater fish**

UF: Estuarine fish  
BT: Brackishwater organisms  
Fish  
RT: Anadromous migrations  
Brackishwater aquaculture  
Brackishwater ecology  
Catadromous migrations  
Estuarine fisheries  
Lagoon fisheries

**Brackishwater invertebrates**

BT: Aquatic invertebrates  
Brackishwater organisms  
NT: Brackishwater crustaceans  
Brackishwater molluscs  
RT: Freshwater invertebrates  
Invertebrate zoology  
Macroinvertebrates  
Marine invertebrates  
Microinvertebrates

**Brackishwater molluscs**

UF: Estuarine molluscs

Molluscs (brackishwater)

Mollusks (brackishwater)

BT: Aquatic molluscs

Brackishwater invertebrates

RT: Brackishwater aquaculture

Mollusc culture

Mollusc fisheries

Shellfish

**Brackishwater organisms**

SN: Before 2016 search  
ESTUARINE ORGANISMS  
UF: Estuarine organisms  
BT: Aquatic organisms  
NT: Brackishwater fish  
Brackishwater invertebrates  
RT: Brackishwater aquaculture  
Brackishwater ecology  
Estuarine fisheries  
Salinity tolerance

**Brackishwater pollution**

UF: Estuarine pollution  
BT: Water pollution  
RT: Brackish water  
Brackishwater ecology

**Brain**

BT: Central nervous system  
NT: Hypothalamus  
Pineal organ  
RT: Ganglia  
Head  
Nerves  
Skull

Branched chain saturated hydrocarbons

USE: **Acyclic hydrocarbons**

Breadth

USE: **Width**

**Break-point bars**

BT: Nearshore bars  
RT: Beach profiles  
Breaking waves  
Deposition features  
Longshore bars

Breaker zone

USE: **Surf zone**

**Breakers**

BT: Breaking waves  
RT: Rollers  
Undertow

**Breaking waves**

BT: Surface water waves  
NT: Breakers  
Spilling waves  
Surf  
Whitecaps  
RT: Break-point bars  
Shoaling waves  
Surf zone

- Wave breaking  
Wave crests  
Wave dissipation  
Waves on beaches
- Breakwaters**  
BT: Coast defences  
NT: Riprap  
Rubblemound breakwaters  
RT: Barriers  
Coastal erosion  
Harbours  
Overtopping  
Sea walls  
Wave damping  
Wave runup
- Breathing apparatus**  
BT: Life support systems  
RT: Breathing mixtures  
Diving equipment  
Safety devices  
Scuba diving
- Breathing mixtures**  
BT: Gases  
NT: Mixed gas  
RT: Breathing apparatus  
Deep-sea diving  
Saturation diving  
Scuba diving
- Breccia**  
BT: Clastics  
RT: Conglomerates  
Rudites  
Volcanic breccia
- Breeding**  
UF: Natural breeding  
NT: Inbreeding  
Induced breeding  
Selective breeding  
RT: Aquaculture  
Biological speciation  
Breeding ponds  
Breeding seasons  
Breeding sites  
Breeding success  
Brood care  
Brood stocks  
Genetics  
Hybridization  
Nesting  
Phenology  
Photoperiodicity  
Reproductive behaviour  
Reproductive cycle  
Sexual maturity  
Sexual reproduction  
Spawning
- Breeding cycle  
USE: **Reproductive cycle**
- Breeding grounds  
USE: **Breeding sites**
- Breeding ponds**  
BT: Fish ponds  
RT: Breeding
- Breeding seasons**  
SN: Before 1982 use SPAWNING SEASONS  
RT: Breeding  
Nesting  
Sexual isolation
- Breeding sites**  
UF: Breeding grounds  
RT: Breeding  
Nesting  
Nests
- Breeding stocks  
USE: **Brood stocks**
- Breeding success**  
RT: Breeding
- Breezes**  
BT: Local winds  
NT: Land breezes  
Sea breezes  
RT: Beaufort scale
- Bridges**  
UF: Rail bridges  
Road bridges  
RT: Pontoons  
Tunnels
- Bright spot technology**  
BT: Seismic data processing  
RT: Seismic profiles
- Brightness temperature  
USE: **Surface radiation temperature**
- Brine  
USE: **Brines**
- Brine shrimp culture**  
UF: Artemia culture  
BT: Crustacean culture  
RT: Mass culture  
Zooplankton culture
- Brine shrimp eggs**  
BT: Eggs
- Brines**  
UF: Brine  
BT: Solutions  
NT: Hot brines  
RT: Chlorine compounds  
Dissolved salts  
Fluorine compounds  
Saline water  
Sea ice
- Brittleness**  
BT: Mechanical properties
- RT: Embrittlement
- Bromides**  
BT: Bromine compounds  
RT: Halides
- Brominated hydrocarbons**  
BT: Halogenated hydrocarbons  
RT: Bromine
- Bromine**  
BT: Halogens  
RT: Brominated hydrocarbons  
Bromine compounds  
Bromine isotopes
- Bromine compounds**  
BT: Halogen compounds  
NT: Bromides  
RT: Bromine
- Bromine isotopes**  
BT: Isotopes  
RT: Bromine
- Brood care**  
RT: Aquaculture  
Breeding  
Brood stocks
- Brood stocks**  
SN: A population of specimens selected for reproduction purposes  
UF: Breeding stocks  
Parent stocks  
BT: Stocks  
RT: Breeding  
Brood care  
Fecundity  
Hybridization
- Brown water rivers  
USE: **Whitewater rivers**
- Brucite**  
BT: Oxide minerals
- Brunt-Vaisala frequency**  
UF: Buoyancy frequency  
Stability frequency  
BT: Frequency  
RT: Vertical stability
- BTU  
USE: **Calorimetry**
- Bubble barriers**  
UF: Bubble breakwaters  
BT: Barriers
- Bubble breakwaters  
USE: **Bubble barriers**
- Bubble bursting**  
RT: Aerosols  
Air-water exchanges

Bubbles  
Droplets  
Electric charge  
Surface chemistry

**Bubble disease**

UF: Gas bubble disease  
Gas embolism  
BT: Fish diseases  
RT: Artificial aeration  
Dissolved gases  
Exophthalmia

**Bubbles**

NT: Air bubbles  
RT: Bubble bursting  
Bubbling  
Cavitation  
Debubbling

**Bubbling**

RT: Aeration  
Bubbles  
Debubbling

Bubonic disease

USE: **Boil disease**

Bucket temperature

USE: **Surface temperature**

Buckling

USE: **Deformation**

Buckling (pipe)

USE: **Pipe buckling**

**Budding**

BT: Asexual reproduction  
RT: Buds  
Gemmules  
Polyps  
Spores  
Vegetative reproduction

**Buds**

RT: Budding  
Plant organs  
Polyps

Buffer capacity

USE: **Buffers**

Buffer solution

USE: **Buffers**

**Buffers**

SN: Buffers occurring in natural water or used in laboratory work  
UF: Buffer capacity  
Buffer solution  
RT: Acidity  
Alkalinity  
Chemical reactions  
pH  
Solutions

**Bulk carriers**

UF: Ore carriers  
BT: Merchant ships  
RT: Cargoes

**Bulk modulus**

BT: Elastic constants  
RT: Compressibility  
Deformation  
Elasticity  
Shear modulus

Buoy dynamics

USE: **Buoy motion**

Buoy hull shapes

USE: **Buoy hulls**

**Buoy hulls**

UF: Buoy hull shapes  
BT: Hulls  
NT: Discus-shaped buoys  
Spar buoys  
RT: Buoys

Buoy masts

USE: **Masts**

**Buoy mooring systems**

BT: Mooring systems  
RT: Buoy motion  
Buoy systems  
Buoys  
Mooring recovery

**Buoy motion**

UF: Buoy dynamics  
BT: Motion  
RT: Buoy mooring systems  
Buoy motion effects  
Cable dynamics  
Ship motion  
Wave effects

**Buoy motion effects**

SN: Effect of buoy motion on instruments and on instrument readings  
BT: Motion effects  
RT: Buoy motion  
Buoys  
Heave response  
Heaving  
Mooring motion effects  
Pitch response  
Pitching  
Roll resonance  
Roll response  
Rolling  
Surge response  
Surging  
Yaw response  
Yawing

**Buoy systems**

RT: Buoy mooring systems

Buoys

Floating structures

**Buoyancy**

SN: Includes mechanisms in organisms for buoyancy  
BT: Physical properties  
RT: Ballast  
Buoyancy floats  
Buoyancy flux  
Buoyancy materials  
Buoys  
Density  
Flotation  
Hydrostatic behaviour  
Stability  
Swim bladder  
Water density

**Buoyancy floats**

UF: Buoyancy spheres  
Floats (buoyancy)  
Subsurface buoyancy floats  
RT: Ballast  
Buoyancy  
Buoys

**Buoyancy flux**

SN: The buoyant or submerged weight of the fluid passing through a cross section in unit time  
RT: Buoyancy  
Buoyant jets

Buoyancy frequency

USE: **Brunt-Vaisala frequency**

**Buoyancy materials**

BT: Materials  
RT: Buoyancy

Buoyancy spheres

USE: **Buoyancy floats**

**Buoyant jets**

BT: Jets  
RT: Buoyancy flux  
Density stratification  
Outfalls  
Plumes  
Turbulent entrainment  
Water mixing

**Buoys**

SN: Use of a more specific term is recommended  
NT: Data buoys  
Fishing buoys  
Marker buoys  
Mooring buoys  
Navigational buoys  
Radio buoys  
Sonobuoys  
RT: Buoy hulls  
Buoy mooring systems  
Buoy motion effects

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Buoy systems  
 Buoyancy  
 Buoyancy floats  
 Drogues  
 Masts

Burial  
 USE: **Burying**

**Burrowing organisms**  
 UF: Benthic infauna  
 Endofauna  
 BT: Aquatic organisms  
 RT: Benthos  
 Bioturbation  
 Burrows  
 Protective behaviour

**Burrows**  
 RT: Burrowing organisms  
 Trace fossils

**Burying**  
 UF: Burial  
 RT: Pipeline construction  
 Pipeline protection  
 Trenching

Business management  
 USE: **Financial management**

**Butane**  
 BT: Acyclic hydrocarbons

Buy back  
 USE: **Buyback**

**Buyback**  
 SN: Buy what had previously been sold, lost, or given away  
 UF: Buy back  
 BT: Purchasing  
 RT: Fishery management  
 Fishing rights  
 Fishing vessels

BWU  
 USE: **Blue whale unit**

By-catch  
 USE: **By catch**

**By-catch excluder devices**  
 SN: Device inserted in fishing gear to allow escapement, alive, of unwanted species (including medusae) or individuals (juveniles) or endangered species (e.g. seals, turtles, dolphins).  
 UF: BEDs  
 By catch reduction devices  
 NT: Turtle excluder devices

By-products  
 USE: **Byproducts**

**By catch**  
 SN: The catch taken incidentally during the capture of a species of specific interest to fishermen. Before 1986 search also BY-CATCH  
 UF: Additional catch  
 By-catch  
 Non-target species  
 RT: Byproducts  
 Catch-effort  
 Catch composition  
 Discards  
 Fish catch statistics  
 Post harvest losses  
 Shellfish catch statistics

By catch reduction devices  
 USE: **By-catch excluder devices**

**Byproducts**  
 UF: By-products  
 BT: Products  
 RT: By catch  
 Fish leather  
 Fish oils  
 Industrial products  
 Powdered products  
 Processed fishery products  
 Stickwater  
 Wastes

**Byssus**  
 SN: In Mollusca  
 Lamellibranchiata, a tuft of filaments secreted by a gland in the foot and used for attachment  
 UF: Byssus threads  
 BT: Animal appendages  
 RT: Secretion

Byssus threads  
 USE: **Byssus**

C/N ratio  
 USE: **Carbon-nitrogen ratio**

Cabaling  
 USE: **Cabelling**

**Cabelling**  
 SN: Mixing of two water masses with identical insitu densities but different insitu temperatures and salinities, so that the resulting mixture is denser than its components. Before 1984 search also CABELLING  
 UF: Cabaling  
 Cabelling  
 BT: Vertical water movement  
 RT: Mixing processes  
 Salinity  
 Water density  
 Water masses  
 Water mixing  
 Water temperature

Cabelling  
 USE: **Cabelling**

Cable breaks  
 USE: **Submarine cable breaks**

**Cable depressors**  
 BT: Depressors  
 RT: Oceanographic equipment  
 Towed sensors  
 Towing lines

**Cable dynamics**  
 BT: Dynamics  
 RT: Buoy motion  
 Cables  
 Catenary  
 Wire rope

**Cable laying**  
 RT: Cable ships  
 Submarine cables

**Cable ships**  
 BT: Ships  
 RT: Cable laying  
 Submarine cables  
 Work platforms

**Cables**  
 NT: Electric cables  
 Guide lines  
 Mooring lines  
 Riser cables  
 Streamers  
 Towing lines  
 Umbilicals  
 RT: Cable dynamics  
 Catenary  
 Chain  
 Fairings  
 Ropes  
 Wire angle  
 Wire rope

**Cadmium**  
 BT: Heavy metals  
 RT: Cadmium compounds  
 Cadmium isotopes

**Cadmium compounds**  
 BT: Chemical compounds  
 RT: Cadmium

**Cadmium isotopes**  
 BT: Isotopes  
 RT: Cadmium

Caenozoic  
 USE: **Cenozoic**

**Caesium**  
 UF: Cesium  
 BT: Alkali metals  
 RT: Caesium isotopes

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**Caesium 137**

BT: Caesium isotopes

**Caesium isotopes**

BT: Isotopes  
NT: Caesium 137  
RT: Caesium

Cage construction

USE: **Gear construction**

**Cage culture**

SN: Culture of shellfish species and fish in fixed or floating cages

UF: Basket culture

Net culture

Pen culture

BT: Aquaculture techniques

RT: Brackishwater aquaculture

Cages

Crustacean culture

Fish culture

Freshwater aquaculture

Intensive culture

Marine aquaculture

Monoculture

Raft culture

Thermal aquaculture

**Cages**

NT: Floating cages

Submerged cages

RT: Aquaculture equipment

Cage culture

**Caissons**

BT: Offshore structures

RT: Submersible platforms

Underwater habitats

**Calcareenite**

BT: Carbonate rocks

RT: Biocalcareenite

Limestone

Calcareous deposits

USE: **Carbonate sediments**

**Calcareous ooze**

UF: Ooze (calcareous)

BT: Oozes

NT: Foraminiferal ooze

Pteropod ooze

RT: Calcium carbonates

Carbonate sediments

Coccoliths

Nannofossil ooze

Calciferol

USE: **Vitamin D**

**Calcification**

SN: The formation of calcium salt deposits in a tissue

UF: Physiological calcification

BT: Biochemical phenomena

RT: Bones

Decalcification

Diagenesis

Fossils

Shells

Tissues

Vitamin D

**Calcite**

BT: Carbonate minerals

RT: Calcite dissolution

Calcitization

Calcium carbonates

Limestone

Calcite compensation depth

USE: **Carbonate compensation depth**

**Calcite dissolution**

BT: Dissolution

RT: Calcite

Carbonate compensation depth

**Calcitization**

BT: Diagenesis

RT: Calcite

Dolomitization

**Calcium**

BT: Alkaline earth metals

RT: Calcium compounds

Calcium isotopes

Water hardness

**Calcium carbonates**

BT: Calcium compounds

Carbonates

RT: Aragonite

Calcareous ooze

Calcite

Dolomitization

**Calcium compounds**

SN: Use of a specific compound is recommended

BT: Alkaline earth metal compounds

NT: Calcium carbonates

Calcium phosphates

Calcium sulphates

RT: Calcium

Coral

Water hardness

**Calcium isotopes**

BT: Isotopes

RT: Calcium

**Calcium phosphates**

BT: Calcium compounds

Phosphates

**Calcium sulphates**

BT: Calcium compounds

Sulphates

**Calcrete**

BT: Carbonate rocks

RT: Conglomerates

**Calculators**

BT: Electronic equipment

**Calibration**

SN: Methods for calibrating accuracy or reliability of equipment

BT: Standardization

NT: Intercalibration

RT: Accuracy

Efficiency

Equipment

Testing

**Californium**

BT: Actinides

Transuranic elements

RT: Californium isotopes

**Californium isotopes**

BT: Isotopes

RT: Californium

**Calories**

SN: Before 1982 search

NUTRITIVE VALUE

UF: Calories (nutrition)

RT: Calorimetry

Food consumption

Nutritive value

Calories (nutrition)

USE: **Calories**

**Calorimetry**

UF: BTU

Heat measurement

BT: Measurement

RT: Calories

Energy budget

Calved ice

USE: **Icebergs**

**Calving**

SN: Formation of icebergs

RT: Ablation

Ice shelves

Icebergs

**Cambrian**

SN: Before 1982 search also

CAMBRIAN PERIOD

BT: Palaeozoic

**Cameras**

BT: Photographic equipment

NT: Underwater cameras

RT: Optical filters

Photography

Television systems

**Camouflage**

BT: Adaptations  
RT: Defence mechanisms  
Mimicry  
Protective behaviour

**Canals**

SN: Restricted to artificial water courses through a land area; used for navigation, irrigation, etc.  
UF: Irrigation canals  
BT: Inland waters  
NT: Interocean canals  
Ship canals  
RT: Channels  
Inlets (waterways)

**Cancer**

BT: Diseases  
RT: Carcinogens  
Disease control  
Disease detection  
Disease resistance  
Mortality causes  
Therapy  
Tumours

**Cangronid fisheries**

USE: **Shrimpy fisheries**

**Canned fishery products**

USE: **Canned products**

**Canned products**

SN: Fishery products preserved in cans by sterilization process  
UF: Canned fishery products  
BT: Processed fishery products  
RT: Canning

**Cannibalism**

BT: Feeding behaviour

**Canning**

SN: Preservation of fishery products in cans by sterilization process  
BT: Processing fishery products  
RT: Canned products

**Canoe fisheries**

BT: Fisheries  
RT: Artisanal fisheries  
Artisanal fishing  
Canoes

**Canoeing**

USE: **Boating**

**Canoes**

BT: Boats  
RT: Canoe fisheries

**Canopies**

RT: Shading

**Cans**

USE: **Containers**

**Cap rocks**

RT: Diapirs  
Oil reservoirs  
Salt domes

**Capacitance**

BT: Electrical properties  
RT: Dielectric constant  
Electric charge  
Electric impedance

**Capacitance wire wave recorders**

USE: **Wave recorders**

**Capacity**

BT: Dimensions  
NT: Carrying capacity  
RT: Size  
Volume

**Capacity (storage)**

USE: **Storage**

**Capacity (volume)**

USE: **Volume**

**Capacity building**

SN: The development and strengthening of human and institutional resources  
UF: Capacity development  
RT: Development projects  
Education  
Extension activities  
Training

**Capacity development**

USE: **Capacity building**

**Cape rock lobster fisheries**

USE: **Lobster fisheries**

**Capelin fisheries**

USE: **Gadoid fisheries**

**Capillarity**

SN: Physical capillary action associated with surface tension  
UF: Capillary action  
Capillary phenomena  
RT: Air bubbles  
Capillary waves  
Droplets  
Electrical properties  
Foams  
Permeability  
Porosity  
Surface films  
Surface properties  
Surface tension  
Viscosity

**Capillary action**

USE: **Capillarity**

**Capillary phenomena**

USE: **Capillarity**

**Capillary waves**

UF: Surface tension waves  
BT: Surface water waves  
NT: Water ripples  
RT: Capillarity  
Gravity waves  
Nonlinear waves  
Surface tension

**Capital investments**

USE: **Investments**

**Capital resources**

USE: **Financial resources**

**Capsizing**

BT: Marine accidents  
Ship motion  
RT: Floating  
Instability  
Righting  
Ship losses  
Ship stability  
Wave effects

**Captivity**

RT: Acclimation  
Acclimatization  
Domestication

**Capture-based aquaculture**

SN: Seed (i.e. larvae, early life stages, adults) captured and collected from the wild and subsequently grown in captivity to market size using aquaculture techniques  
BT: Aquaculture techniques  
RT: Aquaculture development  
Aquaculture systems  
Rearing

**Capture-recapture data**

USE: **Capture-recapture studies**

**Capture-recapture studies**

UF: Capture-recapture data  
Mark-recapture data  
Mark-recapture studies  
BT: Biological sampling  
RT: Biological data  
Marking  
Population number  
Tagging

**Capture fisheries**

USE: **Fisheries**

**Capture fishery economics**

SN: Economics of exploiting wild stocks. Before 1982 search FISHERY ECONOMICS  
BT: Fishery economics

**Carangid fisheries**

UF: Horse mackerel fisheries  
 Jack fisheries  
 Scad fisheries  
 Yellow tail fisheries  
 BT: Fisheries  
 RT: Marine fisheries  
 Percoid fisheries

**Carapace**

SN: An exoskeletal shield covering part or all of the dorsal surface of an animal  
 BT: Exoskeleton  
 RT: Cephalothorax  
 Chitin

**Carbohydrates**

BT: Organic compounds  
 NT: Glycogen  
 Glycosides  
 Prebiotics  
 Saccharides  
 RT: Agar  
 Alcohols  
 Carbon fixation  
 Nutritive value  
 Organic constituents

**Carbon**

BT: Nonmetals  
 NT: Inorganic carbon  
 Organic carbon  
 RT: Carbon-nitrogen ratio  
 Carbon compounds  
 Carbon cycle  
 Carbon isotopes  
 Carbon sinks  
 Diamonds  
 Hydrocarbons

**Carbon-nitrogen ratio**

UF: C/N ratio  
 Carbon nitrogen ratio  
 Carbon/nitrogen ratio  
 BT: Ratios  
 RT: Carbon  
 Nitrogen

**Carbon 13**

BT: Carbon isotopes  
 RT: Radioactive tracers  
 Radiocarbon dating  
 Radioisotopes

**Carbon 14**

BT: Carbon isotopes  
 Radioisotopes  
 RT: Radioactive tracers  
 Radiocarbon dating

Carbon assimilation

USE: **Carbon fixation**

**Carbon compounds**

BT: Chemical compounds

NT: Carbon dioxide  
 Carbon monoxide  
 Carbon sulphides  
 Carbonates  
 RT: Carbon  
 Cyanides  
 Hydrocarbons  
 Organic compounds

**Carbon cycle**

BT: Nutrient cycles  
 RT: Carbon  
 Carbon dioxide  
 Transpiration

**Carbon dioxide**

BT: Atmospheric gases  
 Carbon compounds  
 RT: Carbon cycle  
 Carbon fixation  
 Greenhouse effect  
 Hypercapnia  
 Photosynthesis

Carbon dioxide fixation

USE: **Carbon fixation**

Carbon dioxide poisoning

USE: **Hypercapnia**

**Carbon fixation**

SN: Before 1982 search  
 PHOTOSYNTHESIS  
 UF: Carbon assimilation  
 Carbon dioxide fixation  
 BT: Photosynthesis  
 RT: Carbohydrates  
 Carbon dioxide

**Carbon isotope ratio**

BT: Ratios  
 RT: Carbon isotopes

**Carbon isotopes**

BT: Isotopes  
 NT: Carbon 13  
 Carbon 14  
 RT: Carbon  
 Carbon isotope ratio

**Carbon monoxide**

BT: Carbon compounds

Carbon nitrogen ratio

USE: **Carbon-nitrogen ratio**

**Carbon sinks**

RT: Carbon  
 Ecosystem services

**Carbon sulphides**

BT: Carbon compounds  
 Sulphides

Carbon/nitrogen ratio

USE: **Carbon-nitrogen ratio**

Carbonaceous deposits

USE: **Organic sediments**

Carbonate biogenic deposits

USE: **Carbonate sediments**

**Carbonate compensation depth**

UF: Calcite compensation depth  
 Compensation depth (carbonate)  
 Compensation depth (oceans)  
 BT: Compensation depth  
 RT: Calcite dissolution  
 Lysocline

**Carbonate minerals**

BT: Minerals  
 NT: Aragonite  
 Calcite  
 Dolomite  
 Magnesite  
 Siderite

**Carbonate rocks**

BT: Rocks  
 NT: Beachrock  
 Biocalcarenite  
 Calcarenite  
 Calcrete  
 Chalk  
 Dolostone  
 Limestone  
 RT: Carbonate sediments  
 Coral reefs  
 Sedimentary rocks

**Carbonate sediments**

UF: Calcareous deposits  
 Carbonate biogenic deposits  
 BT: Sediments  
 RT: Calcareous ooze  
 Carbonate rocks  
 Chemical sediments  
 Coccoliths  
 Pelagic sediments

**Carbonates**

BT: Carbon compounds  
 NT: Bicarbonates  
 Calcium carbonates  
 RT: Carbonic acid  
 Salts  
 Water hardness

**Carbonic acid**

BT: Organic acids  
 RT: Carbonates

**Carbonic anhydrase**

BT: Enzymes

**Carboniferous**

SN: Before 1982 search  
 CARBONIFEROUS PERIOD  
 BT: Palaeozoic



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### Carboxylation

BT: Chemical reactions  
RT: Decarboxylation

### Carboxylic acid salts

BT: Salts  
NT: Acetate  
Citrates  
RT: Organic acids

Carboxylic acids

USE: **Organic acids**

Carcases

USE: **Carcasses**

### Carcasses

UF: Carcases  
Dead bodies  
RT: Stranding

### Carcinogenesis

SN: The production and development of cancer  
RT: Carcinogens  
Pollution effects  
Tumours

### Carcinogens

RT: Cancer  
Carcinogenesis  
Chemical pollutants  
Diseases  
Radioactive pollutants

### Carcinologists

BT: Zoologists  
RT: Carcinology  
Fishery biologists  
Taxonomists

### Carcinology

BT: Invertebrate zoology  
RT: Aquatic crustaceans  
Carcinologists

Carcinoma

USE: **Tumours**

### Careers

RT: Personnel

### Cargo handling

RT: Cargoes  
Container ships  
Containers  
Cranes  
Ferry terminals  
Harbours  
Health and safety  
Port operations  
Shipping

Cargo ships

USE: **Merchant ships**

### Cargoes

RT: Bulk carriers  
Cargo handling  
Merchant ships  
Shipping  
Transportation

Caridean shrimp fisheries

USE: **Shrimp fisheries**

### Carnallite

BT: Halide minerals

### Carnivores

BT: Heterotrophic organisms  
RT: Herbivores  
Omnivores  
Piscivores  
Plankton feeders  
Predators  
Trophic levels

Carotenes

USE: **Vitamin A**

### Carotenoids

BT: Chromatic pigments  
RT: Photosynthesis  
Photosynthetic pigments

### Carp culture

SN: Before 2016 search FISH CULTURE + species name  
BT: Fish culture

### Carrageenins

BT: Seaweed products  
RT: Agar  
Alginates

### Carrying capacity

SN: The maximum number of organisms that can be sustained within a given area or habitat  
BT: Capacity  
RT: Habitat

Cartesian coordinates

USE: **Coordinate systems**

### Cartilage

SN: A form of connective tissue of vertebrates. Before 1982 search TISSUES  
BT: Connective tissues  
RT: Musculoskeletal system  
Skeleton

Cartographic methods

USE: **Cartography**

### Cartography

UF: Cartographic methods  
Oceanographic cartography  
NT: Automated cartography  
RT: Atlases  
Bathymetric surveys

Geographical coordinates

Geography  
Map graphics  
Map projections  
Mapping  
Maps  
Photogrammetry  
Surveying  
Surveys

### Cascading

BT: Vertical water movement  
RT: Boluses  
Overflow  
Slope processes

### Case studies

SN: A published report about a person, group, or situation that has been studied over time; also a situation in real life that can be looked at or studied to learn about something  
RT: Management  
Report literature  
Research  
Socioeconomic aspects

### Cassiterite

BT: Oxide minerals  
RT: Placers  
Tin

### Cast nets

UF: Falling gear  
BT: Fishing nets

### Castration

BT: Organ removal  
NT: Parasitic castration  
RT: Contraception  
Ovariectomy  
Sterility  
Testes

Castration by parasites

USE: **Parasitic castration**

CAT scan

USE: **Tomography**

### Catabolism

BT: Metabolism  
RT: Anabolism

Catadromous fish

USE: **Catadromous species**

### Catadromous migrations

UF: Downstream migrations  
BT: Spawning migrations  
RT: Anadromous migrations  
Brackishwater fish  
Catadromous species  
Homing behaviour  
Potadromous migrations

**Catadromous species**

SN: Migrating from fresh to salt water to spawn  
 UF: Amphihaline thalassotocous species  
     Catadromous fish  
     Katadromous species  
 BT: Amphihaline species  
 RT: Anadromous species  
     Catadromous migrations  
     Diadromy

**Catagenesis**

RT: Diagenesis  
 Sediments

Catalogs

USE: **Catalogues**

**Catalogues**

UF: Catalogs  
     Equipment catalogues  
 BT: Documents  
 NT: Book catalogues  
     Inventories  
 RT: Collections

Catalysis

USE: **Catalysts**

**Catalysts**

UF: Catalysis  
 BT: Agents  
 RT: Chemical kinetics  
     Chemical reactions  
     Enzymatic activity  
     Enzymes  
     Inhibitors

**Catamarans**

BT: Boats  
 RT: Ship hulls

Catastrophes

USE: **Disasters**

**Catastrophic waves**

BT: Water waves  
 RT: Freak waves  
     Storm surges  
     Tsunamis

**Catch-effort**

UF: Catch per unit effort  
     Catch rate  
     Catch/effort  
     Hook rate  
 RT: By catch  
     Catch statistics  
     Catchability  
     Fishery data  
     Fishing effort  
     Fishing power  
     Stock assessment

**Catch composition**

RT: By catch

Catch statistics  
 Commercial species  
 Multispecies fisheries

Catch limit

USE: **Quota regulations**

Catch per unit effort

USE: **Catch-effort**

Catch quota

USE: **Quota regulations**

Catch rate

USE: **Catch-effort**

**Catch statistics**

BT: Fishery statistics  
 NT: Fish catch statistics  
     Hunting statistics  
     Seaweed statistics  
     Shellfish catch statistics  
     Whaling statistics  
 RT: Catch-effort  
     Catch composition  
     Fishery data  
     Fishing down aquatic food webs  
     Fishing effort  
     Fishing fleet  
     Fishing time  
     Landing statistics  
     Quota regulations  
     Stock assessment  
     Total allowable catch

Catch/effort

USE: **Catch-effort**

**Catchability**

UF: Catchability coefficient  
 RT: Avoidance reactions  
     Catch-effort  
     Catching methods  
     Escapement  
     Vulnerability

Catchability coefficient

USE: **Catchability**

**Catching methods**

UF: Fishing methods  
 NT: Electric fishing  
     Explosive fishing  
     Fish poisoning  
     Fishing by diving  
     Light fishing  
     Line fishing  
     Net fishing  
     Pot fishing  
     Pump fishing  
     Spear fishing  
     Trap fishing  
     Wounding  
 RT: Attracting techniques  
     Catchability  
     Experimental fishing

Fishery engineering  
 Fishery technology  
 Fishing  
 Fishing fleet  
 Fishing gear  
 Fishing technology

**Catchment area**

RT: Lake basins  
     Land management  
     River basins  
     Runoff  
     Tributaries  
     Watersheds

**Catenary**

BT: Deflection  
 RT: Cable dynamics  
     Cables  
     Mooring lines  
     Riser cables

**Catfish culture**

SN: Before 2016 search FISH CULTURE + species name  
 BT: Fish culture

**Cathodes**

BT: Electrodes

**Cathodic protection**

BT: Corrosion control  
 RT: Impressed currents  
     Sacrificial anodes

Cathodic stripping voltammetry

USE: **Stripping analysis**

Cation exchange

USE: **Ion exchange**

Cation exchange capacity

USE: **Exchange capacity**

**Cations**

BT: Ions  
 RT: Electrolysis  
     Exchange capacity

Causticity

USE: **Alkalinity**

**Caustics**

RT: Orthogonals  
     Wave refraction diagrams

Cave fauna

USE: **Cavernicolous species**

**Cavernicolous species**

UF: Cave fauna  
 BT: Species  
 RT: Caves  
     Spelaeology

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### **Caves**

SN: Restricted to marine  
subterranean environment  
UF: Sea caves  
BT: Coastal landforms  
RT: Cavernicolous species  
Cliffs  
Spelaeology

### **Caviar**

SN: Sturgeon eggs detached from  
roe, sorted, washed and salted,  
or fish roe prepared like caviar  
UF: Caviar substitutes  
BT: Roes

Caviar substitutes

USE: **Caviar**

### **Cavitation**

UF: Acoustic cavitation  
BT: Turbulent flow  
RT: Acoustic properties  
Bubbles  
Corrosion  
Propellers  
Vaporization  
Vortices

Cavitation erosion

USE: **Corrosion**

### **Cays**

UF: Keys (islands)  
BT: Islands  
RT: Coral reefs

### **cDNA**

BT: DNA

cDNA libraries

USE: **Gene libraries**

### **Celestial navigation**

BT: Navigation  
RT: Astronomy  
Inertial navigation

Cell biology

USE: **Cytology**

### **Cell constituents**

NT: Cell membranes  
Cell organelles  
Cell walls  
Chromosomes  
Cytoplasm  
Nuclei  
RT: Cell division  
Cell morphology  
Cells  
Cytology  
Histochemistry

### **Cell counters**

BT: Counters  
NT: Flow cytometry

RT: Cells

### **Cell culture**

BT: Laboratory culture  
RT: Cells  
Culture media  
Phytoplankton culture  
Proliferation  
Tissue culture

### **Cell differentiation**

UF: Differentiation (cells)  
RT: Cell morphology  
Cells  
Cytology

### **Cell division**

UF: Nuclear division  
BT: Reproduction  
NT: Meiosis  
Mitosis  
RT: Cell constituents  
Cell fusion  
Cells  
Cytology

Cell flagella

USE: **Cell organelles**

### **Cell fusion**

RT: Cell division  
Cells

### **Cell inclusions**

SN: Any non living material  
present in the cytoplasm,  
whether organic or inorganic  
RT: Cells  
Cytoplasm

### **Cell membranes**

UF: Cytoplasmic membranes  
Membranes (cells)  
Nuclear membranes  
Plasma membranes  
Plasmalemma  
BT: Cell constituents  
Membranes  
NT: Ion channels  
RT: Biological membranes  
Cell walls  
Cytology  
Protoplasts

### **Cell morphology**

BT: Organism morphology  
RT: Cell constituents  
Cell differentiation  
Cytology

### **Cell organelles**

SN: Specialized part of a cell  
having specific functions  
UF: Cell flagella  
Chondriosomes  
Contractile vacuole  
Myoneme

Organelles

BT: Cell constituents

NT: Golgi apparatus

Lysosomes

Mitochondria

RT: Cytology

### **Cell walls**

SN: Outermost rigid layer of a  
plant cell  
BT: Cell constituents  
RT: Cell membranes

### **Cells**

NT: Amoebocytes  
Blood cells  
Neurons  
Receptors  
Sexual cells  
RT: Anatomical structures  
Cell constituents  
Cell counters  
Cell culture  
Cell differentiation  
Cell division  
Cell fusion  
Cell inclusions  
Chloroplasts  
Chromatophores  
Clones  
Cytology  
Extracellular  
Histochemistry  
Necroses  
Phagocytosis  
Proliferation  
Protoplasts  
Tissues  
Ultrastructure

### **Cellular convection**

UF: Thermal convection  
BT: Convection  
RT: Atmospheric boundary layer  
Mantle convection  
Windrows

Cellulase

USE: **Enzymes**

### **Cellulose**

SN: Before 1982 search  
CARBOHYDRATES  
BT: Polysaccharides

Cement (building material)

USE: **Concrete**

### **Cementation**

BT: Diagenesis  
RT: Clastics  
Consolidation  
Lithification  
Submarine cements

Cements (adhesives)

USE: **Adhesives**

## ASFA THESAURUS

Cements (geology)  
USE: **Submarine cements**

### **Cenozoic**

SN: Before 1982 search  
CENOZOIC ERA  
UF: Caenozoic  
BT: Geological time  
NT: Quaternary  
Tertiary  
RT: Phanerozoic

### **Census**

RT: Biological data  
Biological sampling  
Data collections  
Sampling  
Stock assessment  
Surveys

### **Central nervous system**

UF: CNS  
BT: Nervous system  
NT: Brain  
Ganglia  
Spinal cord  
RT: Sense organs

### **Centrifugal force**

BT: Forces  
RT: Acceleration  
Centrifuges  
Centripetal force

### **Centrifugation**

BT: Separation  
RT: Analytical techniques  
Centrifuges  
Water filtration  
Water purification

### **Centrifuges**

BT: Laboratory equipment  
RT: Centrifugal force  
Centrifugation  
Centripetal force

### **Centripetal force**

BT: Forces  
RT: Acceleration  
Centrifugal force  
Centrifuges

### **Cephalopod culture**

BT: Mollusc culture  
NT: Cuttlefish culture  
Octopus culture  
Squid culture  
RT: Cephalopod fisheries

### **Cephalopod fisheries**

UF: Cuttlefish fisheries  
Octopus fisheries  
Squid fisheries  
BT: Mollusc fisheries  
RT: Cephalopod culture

Cuttlefish culture  
Marine fisheries  
Octopus culture  
Pot fishing  
Squid culture

### **Cephalothorax**

BT: Body regions  
RT: Animal appendages  
Carapace  
Thorax

### **Ceramics**

BT: Materials

### **Cerium**

BT: Lanthanides  
RT: Cerium compounds  
Cerium isotopes

### **Cerium compounds**

BT: Chemical compounds  
RT: Cerium

### **Cerium isotopes**

BT: Isotopes  
RT: Cerium

### **Certification**

RT: Ecolabelling  
Evaluation  
Organic aquaculture  
Performance assessment  
Quality control  
Reliability  
Tests

### **Cesium**

USE: **Caesium**

### **Cetology**

BT: Mammalogy  
RT: Aquatic mammals  
Vocalization behaviour

### **Chain**

RT: Cables  
Mooring lines  
Ropes

### **Chalk**

BT: Carbonate rocks  
RT: Coccoliths

### **Chambers (one-atmosphere)**

USE: **Underwater habitats**

### **Chandler wobble**

RT: Earth rotation  
Pole tides

### **Changes (time)**

USE: **Temporal variations**

### **Changes of state**

USE: **Phase changes**

### **Channel flow**

SN: Includes flow through pipes and conduits  
UF: Flow in channels  
Open channel flow  
BT: Fluid flow  
RT: Flowmeters  
Fluvial transport  
Laminar flow  
Sediment dynamics  
Sediment transport  
Turbulent flow  
Unidirectional flow

### **Channels**

UF: Water channels  
BT: Topographic features  
NT: Navigational channels  
Rip channels  
Seachannels  
RT: Canals  
Dredgers  
Flumes  
Fluvial features  
Inlets (waterways)  
Karst  
Rivers  
Runnels  
Straits  
Tidal inlets  
Valleys  
Water bodies  
Water currents

### **Channels (sound)**

USE: **Sound channels**

### **Chaos theory**

BT: Mathematics  
RT: Mathematical analysis

### **Chart datum**

BT: Datum levels  
RT: Maps

### **Charting (distributions)**

USE: **Mapping**

### **Charting (environmental conditions)**

USE: **Mapping**

### **Charting (navigational hazards)**

USE: **Hydrographic surveying**

### **Charts (maps)**

USE: **Maps**

### **Check lists**

SN: Any relatively extensive list of a group of organisms by species  
UF: Species composition  
RT: Identification keys

### **Chelates**

UF: Chelating agents  
Chelation

## ASFA THESAURUS

- RT: Chemical compounds  
Haemoglobins  
Metals  
Organic compounds
- Chelating agents  
USE: **Chelates**
- Chelation  
USE: **Chelates**
- Chelatometric titration  
USE: **Titration**
- Chemical activity  
USE: **Thermodynamic activity**
- Chemical analysis**  
UF: Chemical assays  
BT: Analysis  
RT: Chemical composition  
Hydrocarbon analysis  
Microscopy  
Pollution detection  
Sediment analysis  
Water analysis  
Water samples  
X-ray spectroscopy
- Chemical assays  
USE: **Chemical analysis**
- Chemical composition**  
UF: Abundance (chemical)  
Chemical constituents  
Proximal composition  
BT: Composition  
NT: Feed composition  
Food composition  
Major elements  
RT: Chemical analysis  
Chemical elements  
Chemical properties  
Chemotaxonomy
- Chemical compounds**  
SN: Use of a more specific term is recommended; consult NTs listed below  
NT: Actinide compounds  
Alkali metal compounds  
Alkaline earth metal compounds  
Aluminium compounds  
Arsenic compounds  
Bismuth compounds  
Boron compounds  
Cadmium compounds  
Carbon compounds  
Cerium compounds  
Chromium compounds  
Cobalt compounds  
Copper compounds  
Cyanides  
Germanium compounds  
Gold compounds  
Halogen compounds
- Hydrogen compounds  
Inorganic compounds  
Iron compounds  
Lead compounds  
Manganese compounds  
Mercury compounds  
Molybdenum compounds  
Nickel compounds  
Nitrogen compounds  
Organic compounds  
Oxygen compounds  
Phosphorus compounds  
Selenium compounds  
Silicon compounds  
Silver compounds  
Sulphur compounds  
Technetium compounds  
Tin compounds  
Titanium compounds  
Tungsten compounds  
Uranium compounds  
Vanadium compounds  
Volatile compounds  
Zinc compounds  
Zirconium compounds
- RT: Antioxidants  
Aromatics  
Chelates  
Disinfectants  
Dissolved chemicals  
Fixatives  
Inorganic acids  
Polymers  
Salts
- Chemical constituents  
USE: **Chemical composition**
- Chemical contamination  
USE: **Chemical pollution**
- Chemical control**  
SN: Use of chemicals to control noxious organisms  
UF: Chemocontrol  
BT: Control  
RT: Antifouling substances  
Pest control  
Plant control
- Chemical cycles**  
BT: Cycles  
NT: Biochemical cycles  
Geochemical cycle
- Chemical defence**  
NT: Allelopathy  
RT: Allelochemicals  
Protective behaviour
- Chemical degradation**  
BT: Degradation  
RT: Biochemical cycles  
Biogeochemical cycle  
Chemical reactions  
Corrosion  
Electrolysis
- Hydrolysis  
Sewage treatment  
Sludge treatment  
Water pollution treatment
- Chemical elements**  
SN: Use of a more specific term is recommended  
UF: Elements  
Elements (chemical)  
NT: Metals  
Nonmetals  
Rare gases  
RT: Alloys  
Chemical composition  
Dissolved chemicals  
Electroanalysis  
Isotopes  
Major elements  
Trace elements
- Chemical engineering**  
BT: Engineering  
RT: Petroleum engineering
- Chemical equilibrium**  
UF: Equilibrium constants  
BT: Equilibrium  
RT: Chemical kinetics  
Chemical reactions  
Thermodynamic activity  
Thermodynamic equilibrium
- Chemical extraction**  
SN: Extraction of fats, enzymes, seaweed products, oils, protein, concentrates, stickwater, etc.  
UF: Extraction (chemical)  
BT: Separation  
RT: Animal oil extraction
- Chemical fertilizers**  
SN: Chemical substances used to fertilize soils or aquatic environment  
BT: Fertilizers  
RT: Chemical pollutants  
Nitrogen compounds  
Phosphorus compounds
- Chemical fingerprinting**  
BT: Fingerprinting  
RT: Analytical techniques  
Chromatographic techniques  
Fluorescence spectroscopy  
Isotopes
- Chemical kinetics**  
UF: Kinetics of chemical reactions  
Reaction kinetics  
BT: Kinetics  
RT: Catalysts  
Chemical equilibrium  
Chemical reactions

**Chemical limnology**

SN: Before 1982 search also  
LIMNOLOGY (CHEMICAL)  
UF: Limnology (chemical)  
BT: Limnology  
RT: Chemical properties  
Estuarine chemistry  
Water analysis

Chemical messengers

USE: **Hormones**

**Chemical oceanography**

UF: Marine chemistry  
BT: Oceanography  
RT: Chemical properties  
Chemistry  
Estuarine chemistry  
Water analysis

**Chemical oxygen demand**

BT: Oxygen demand  
RT: Biochemical oxygen demand  
Chemical properties  
Water analysis  
Water quality

**Chemical plumes**

BT: Plumes  
RT: Chemical pollution  
Chemical spills

**Chemical pollutants**

SN: Any pollutants of chemical  
origin (organic and inorganic)  
BT: Hazardous materials  
Pollutants  
NT: Endocrine disruptors  
Pesticide residues  
Veterinary drugs residues  
RT: Carcinogens  
Chemical fertilizers  
Chemical pollution  
DDT  
Detergents  
Food contamination  
Industrial wastes  
Paints  
PCB  
Pesticides  
Phenols  
Phthalate esters

**Chemical pollution**

UF: Chemical contamination  
BT: Pollution  
RT: Agricultural pollution  
Chemical plumes  
Chemical pollutants  
Sediment pollution  
Water pollution

**Chemical precipitation**

SN: Before 1982 search  
PRECIPITATION  
(CHEMISTRY)  
UF: Precipitation (chemistry)

BT: Separation  
NT: Coprecipitation  
Crystallization  
Flocculation  
RT: Chemical properties  
Chemical reactions  
Coagulants  
Colloids  
Sedimentation  
Solubility  
Supersaturation

**Chemical properties**

BT: Properties  
NT: Acidity  
Alkalinity  
pH  
Redox potential  
Salinity  
Solubility  
RT: Chemical composition  
Chemical limnology  
Chemical oceanography  
Chemical oxygen demand  
Chemical precipitation  
Chemical reactions  
Chemistry  
Electrical properties  
Electrochemistry  
Luminescence  
Molecular weight  
Physical properties  
Physicochemical properties  
Sediment chemistry  
Thermodynamic properties  
Water properties

**Chemical reactions**

SN: Use of a more specific term is  
recommended  
UF: Reactions (chemical)  
NT: Amination  
Autolysis  
Carboxylation  
Coagulation  
Corrosion  
Deamination  
Decarboxylation  
Degradation  
Dehydration  
Denitrification  
Depolymerization  
Dissociation  
Electrolysis  
Fermentation  
Halogenation  
Hydrolysis  
Isomerization  
Nitrification  
Nitrogen fixation  
Oxidation  
Photochemical reactions  
Polymerization  
Redox reactions  
Reduction  
RT: Acid mine drainage  
Biochemical phenomena

Buffers  
Catalysts  
Chemical degradation  
Chemical equilibrium  
Chemical kinetics  
Chemical precipitation  
Chemical properties  
Chemiluminescence  
Chemistry  
Electrochemistry  
Ion association  
Ion exchange  
Photosynthesis  
Redox potential  
Specificity  
Thermodynamic activity  
Titration

Chemical receptors  
USE: **Chemoreceptors**

Chemical resistance  
USE: **Control resistance**

**Chemical sediments**

SN: Search also AUTHIGENES  
before 1983  
UF: Chemically precipitated  
sediments  
Hydrogenous sediments  
BT: Sediments  
NT: Concretions  
Ferruginous deposits  
Hydrothermal deposits  
Manganese deposits  
Metalliferous sediments  
Nodules  
Phosphate deposits  
Submarine cements  
Sulphide deposits  
RT: Anhydrite  
Authigenic minerals  
Carbonate sediments  
Cherts  
Evaporites  
Mineral deposits  
Organic sediments  
Pelagic sediments  
Siliceous sediments

**Chemical speciation**

UF: Speciation (chemical)  
RT: Chemistry

**Chemical spills**

BT: Accidents  
RT: Chemical plumes

**Chemical stimuli**

UF: Olfactory stimuli  
BT: Stimuli  
RT: Chemoreception  
Chemoreceptors  
Chemotaxis  
Chemotropism  
Olfactory organs

Chemical waste disposal

USE: **Waste disposal**

Chemically precipitated sediments

USE: **Chemical sediments**

Chemicals (fire fighting)

USE: **Fire extinguishers**

**Chemiluminescence**

BT: Luminescence

RT: Bioluminescence

Chemical reactions

Phosphorescence

Chemisorption

USE: **Sorption**

**Chemistry**

SN: Use of a more specific term is recommended

NT: Atmospheric chemistry

Biochemistry

Electrochemistry

Geochemistry

Photochemistry

Radiochemistry

Surface chemistry

RT: Chemical oceanography

Chemical properties

Chemical reactions

Chemical speciation

Chemocontrol

USE: **Chemical control**

**Chemoreception**

SN: Any sensory perception of ions or chemical compounds

RT: Alarm substances

Chemical stimuli

Chemoreceptors

Chemotropism

Olfaction

Sense functions

**Chemoreceptors**

UF: Chemical receptors

BT: Sense organs

RT: Chemical stimuli

Chemoreception

Olfactory organs

Taste organs

**Chemosynthesis**

RT: Biosynthesis

Nutrients (mineral)

Photosynthesis

**Chemotaxis**

BT: Taxis

RT: Chemical stimuli

Chemotropism

Olfactory organs

**Chemotaxonomy**

SN: The classification of organisms on the basis of the distribution and composition of their chemical substances

UF: Molecular taxonomy

BT: Taxonomy

RT: Chemical composition

DNA

**Chemotropism**

BT: Tropism

RT: Chemical stimuli

Chemoreception

Chemotaxis

**Chenier plains**

BT: Coastal landforms

RT: Cheniers

**Cheniers**

BT: Beach ridges

RT: Chenier plains

Wetlands

**Chertification**

RT: Cherts

Diagenesis

Metasomatism

Silicification

**Cherts**

BT: Siliceous rocks

RT: Chemical sediments

Chertification

Concretions

Nodules

Silica

Chi square test

USE: **Statistical analysis**

Chicken-fish culture

USE: **Agropisciculture**

**Children**

RT: Juveniles

Offspring

Progeny

Public health

Chilled fishery products

USE: **Chilled products**

**Chilled products**

UF: Chilled fishery products

BT: Processed fishery products

RT: Chilling storage

Frozen products

Refrigeration

**Chilling storage**

BT: Cold storage

RT: Chilled products

Refrigeration

Chimaeras fisheries

USE: **Shark fisheries**

**Chitin**

BT: Mucopolysaccharides

RT: Carapace

Chitosan

Cuticles

Exoskeleton

Glucosamine

**Chitosan**

RT: Chitin

**Chloric acid**

BT: Inorganic acids

RT: Chlorine compounds

Fluorine compounds

**Chlorides**

BT: Chlorine compounds

NT: Ammonium chloride

Sodium chloride

RT: Halides

**Chlorinated hydrocarbons**

BT: Halogenated hydrocarbons

NT: Aldrin

Chloroform

DDE

DDT

Dieldrin

Dioxins

Furans

Lindane

Trichloroethylene

RT: Bleaching wastes

Pesticides

**Chlorination**

SN: Sterilization of water with chlorine or chlorine compounds

UF: Chlorinators

BT: Halogenation

RT: Chlorine

Dechlorination

Disinfection

Sewage treatment

Water purification

Chlorinators

USE: **Chlorination**

**Chlorine**

BT: Halogens

RT: Chlorination

Chlorine compounds

Chlorine isotopes

Dechlorination

Disinfectants

**Chlorine compounds**

BT: Halogen compounds

NT: Chlorides

RT: Brines

Chloric acid

Chlorine

- Chlorinity  
Dissolved salts  
Fluorine compounds  
Organic compounds
- Chlorine isotopes**  
BT: Isotopes  
RT: Chlorine
- Chlorinity**  
SN: Measured chemical value of the amount of chloride in sea water  
BT: Salinity  
RT: Chlorine compounds  
Chlorosity  
Fluorine compounds  
Water density
- Chlorite**  
BT: Clay minerals  
RT: Slates
- Chloroform**  
BT: Chlorinated hydrocarbons  
RT: Methane
- Chlorophylls**  
BT: Photosynthetic pigments  
RT: Chloroplasts  
Ocean colour  
Porphyrins
- Chloroplasts**  
RT: Cells  
Chlorophylls  
Chromatophores  
Photosynthetic pigments
- Chlorosity**  
SN: Chlorinity in grams/litre  
BT: Salinity  
RT: Chlorinity  
Water density
- Cholesterol**  
BT: Sterols  
RT: Blood cells
- Choline**  
BT: Alcohols  
RT: Lipids
- Cholinesterase inhibitors**  
UF: Anticholinesterases  
BT: Enzyme inhibitors  
RT: Muscles
- Cholocaliferol  
USE: **Vitamin D**
- Chondriosomes  
USE: **Cell organelles**
- Chordate zoology  
USE: **Vertebrate zoology**
- Chorology  
USE: **Biogeography**
- Christmas trees  
USE: **Wellheads**
- Chromatic adaptations**  
BT: Adaptations  
RT: Chromatic behaviour  
Chromatic pigments  
Colour
- Chromatic behaviour**  
BT: Behaviour  
RT: Chromatic adaptations  
Chromatic pigments  
Chromatophores  
Light effects  
Protective behaviour
- Chromatic pigments**  
BT: Pigments  
NT: Carotenoids  
RT: Albinism  
Chromatic adaptations  
Chromatic behaviour  
Chromatophores  
Colour  
Discolouration
- Chromatographic analysis  
USE: **Chromatographic techniques**
- Chromatographic techniques**  
UF: Chromatographic analysis  
Chromatography  
BT: Analytical techniques  
NT: Gas chromatography  
RT: Adsorption  
Chemical fingerprinting  
Colorimetric techniques  
HPLC  
Light absorption  
Spectroscopic techniques
- Chromatography  
USE: **Chromatographic techniques**
- Chromatophores**  
UF: Erytrophores  
Melanophores  
Xanthophores  
RT: Cells  
Chloroplasts  
Chromatic behaviour  
Chromatic pigments
- Chromite**  
BT: Oxide minerals  
RT: Chromium  
Placers
- Chromium**  
BT: Heavy metals  
Transition elements
- RT: Chromite  
Chromium compounds  
Chromium isotopes  
Heavy minerals
- Chromium compounds**  
BT: Chemical compounds  
RT: Chromium
- Chromium isotopes**  
BT: Isotopes  
RT: Chromium
- Chromosome markers  
USE: **Genetic markers**
- Chromosome mutations  
USE: **Mutations**
- Chromosome numbers  
USE: **Chromosomes**
- Chromosomes**  
UF: Chromosome numbers  
Karyomites  
BT: Cell constituents  
NT: Genes  
RT: Diploids  
Genetic markers  
Genomes  
Haploids  
Histones  
Karyology  
Karyotypes  
Meiosis  
Microsatellites  
Mitosis  
Mutations  
Ploidy  
Polyploids  
Sex determination
- Chronometers**  
UF: Clocks  
Time measuring equipment  
Timing devices  
BT: Measuring devices  
RT: Geochronometry
- Chronostratigraphy**  
BT: Stratigraphy
- Ciguatera**  
BT: Human diseases  
RT: Ciguatoxin  
Poisonous fish
- Ciguatoxin**  
BT: Biological poisons  
RT: Ciguatera  
Poisonous fish
- Cilia**  
BT: Animal appendages  
RT: Flagella  
Locomotion



## ASFA THESAURUS

### **Circadian rhythms**

SN: Pertaining to 24-hour biological cycle  
 UF: Diurnal rhythms  
 BT: Biological rhythms  
 RT: Diurnal variations  
 Moon phases  
 Photoperiods  
 Phototropism

### **Circulation**

SN: Use of a more specific term is recommended  
 NT: Atmospheric circulation  
 Blood circulation  
 Water circulation  
 RT: Advection

### **Circulatory system**

UF: Vascular system  
 BT: Anatomical structures  
 NT: Blood vessels  
 Heart  
 RT: Blood  
 Blood circulation  
 Blood pressure

### **Citizen participation**

USE: **User participation**

### **Citizen science**

USE: **User participation**

### **Citrates**

BT: Carboxylic acid salts

### **Civil engineering**

BT: Engineering  
 RT: Coastal engineering  
 Grouting

### **Cladistics**

BT: Classification  
 RT: Taxonomy

### **Clam culture**

SN: Before 1982 search  
 MOLLUSC CULTURE  
 BT: Bivalve culture  
 RT: Clam fisheries  
 Spat

### **Clam fisheries**

UF: Arkshell fisheries  
 Cockle fisheries  
 Quahog fisheries  
 BT: Mollusc fisheries  
 RT: Clam culture

### **Clapotis**

USE: **Standing waves**

### **Classification**

NT: Cladistics  
 Optical classification  
 Taxonomy  
 RT: Blackwater rivers

### **Classification systems**

Clearwater rivers  
 Whitewater rivers

### **Classification (biological)**

USE: **Taxonomy**

### **Classification systems**

SN: Systems for classification of inanimate objects or ecological or biological attributes of organisms  
 RT: Classification

### **Clastic deposits**

USE: **Clastics**

### **Clastic rocks**

USE: **Clastics**

### **Clastic sediments**

USE: **Clastics**

### **Clastics**

SN: Before 1982 search  
 CLASTIC SEDIMENTS

UF: Clastic deposits  
 Clastic rocks  
 Clastic sediments

BT: Sediments

NT: Arenites

Bentonite

Boulders

Breccia

Clays

Cobblestone

Contourites

Flysch

Gravel

Marlstone

Mud

Mudstone

Pebbles

Sand

Sandstone

Shale

Shingle

Silt

Siltstone

Turbidites

RT: Alluvial deposits

Boulder clay

Cementation

Detrital deposits

Eolian deposits

Glacial deposits

Radiolarite

Tephra

Terrigenous sediments

### **Clay minerals**

BT: Silicate minerals

NT: Chlorite

Illite

Kaolin

Kaolinite

Montmorillonite

Nontronite

Palygorskite

Saponite

Smectite

Vermiculite

RT: Bauxite

Clays

Clay soils

USE: **Clays**

### **Clays**

UF: Clay soils

BT: Clastics

NT: Colloidal clay

Pelagic clay

RT: Argillaceous deposits

Clay minerals

Kaolin

Marl

Mud

Sediment load

### **Clean Water Act**

SN: The title for the legislation should be entered in the Identifiers field

USE: **Legislation**

### **Cleaning**

NT: Tank cleaning

RT: Piggings

### **Cleaning behaviour**

BT: Behaviour

RT: Symbiosis

### **Clear air turbulence**

USE: **Atmospheric turbulence**

### **Clear water rivers**

USE: **Clearwater rivers**

### **Clearwater rivers**

SN: Clearwater rivers are mostly found in the highlands and have a higher pH and tend to have some dissolved minerals, making the waters harder than both blackwater and whitewater rivers

UF: Bluewater rivers

Clear water rivers

BT: Rivers

RT: Blackwater rivers

Classification

River water

Sediment transport

Water colour

Whitewater rivers

### **Cliffs**

BT: Coastal landforms

RT: Caves

Fault scarps

Wave-cut platforms

**Climate**

NT: Hydroclimate  
 Palaeoclimate  
 Weather  
 RT: Climate prediction  
 Climatic changes  
 Climatic data  
 Climatic zones  
 Climatology  
 Ocean-atmosphere system  
 Phenology  
 Rainfall  
 Seasons  
 Solar radiation  
 Wave climate  
 Winds

**Climate prediction**

BT: Prediction  
 RT: Climate  
 Weather forecasting

**Climatic changes**

NT: Global warming  
 RT: Air pollution  
 Atmospheric chemistry  
 Climate  
 Climatology  
 Deglaciation  
 Earth rotation  
 Eustatic changes  
 Glaciation  
 Greenhouse effect  
 Long-term changes  
 Mass extinctions  
 Palaeoclimate  
 Palaeotemperature  
 Sea level changes  
 Solar-terrestrial activity  
 Solar constant  
 Uncertainty

**Climatic data**

UF: Climatological data  
 BT: Meteorological data  
 RT: Climate  
 Climatological charts  
 Climatology

**Climatic maps**

USE: **Climatological charts**

**Climatic zones**

SN: Mainly related to hydroclimate  
 NT: Polar zones  
 Subtropical zones  
 Temperate zones  
 RT: Arid environments  
 Climate  
 Climatology  
 Seasons

**Climatological charts**

UF: Climatic maps  
 BT: Maps  
 RT: Climatic data

Oceanographic atlases  
 Wave climate  
 Wind roses

**Climatological data**

USE: **Climatic data**

**Climatologists**

USE: **Meteorologists**

**Climatology**

BT: Atmospheric sciences  
 NT: Bioclimatology  
 Palaeoclimatology  
 RT: Climate  
 Climatic changes  
 Climatic data  
 Climatic zones  
 Ecosystem services  
 Geography  
 Phenology  
 Seasons  
 Winds

**Climax community**

SN: A stable community by climax formation as consequence of a successional series of ecological changes  
 RT: Aquatic communities  
 Community composition  
 Community structure  
 Dominant species  
 Ecological associations  
 Ecological succession  
 Species diversity

**Clines**

NT: Eoclines  
 Geoclines  
 RT: Halocline  
 Lysocline  
 Thermocline

**Clinoptilonite**

BT: Zeolites

**Cloaca**

RT: Intestines  
 Urinary system

**Clocks**

USE: **Chronometers**

**Clones**

SN: Groups of organisms genetically identical  
 RT: Asexual reproduction  
 Cells  
 Cloning  
 Genetics  
 Parthenogenesis

**Cloning**

RT: Asexual reproduction  
 Clones

Closed recirculating systems  
 USE: **Recirculating systems**

**Closed seasons**

USE: **Season regulations**

**Closure approximation**

BT: Approximation

**Cloud cover**

UF: Cloudiness  
 RT: Clouds  
 Insolation  
 Solar radiation  
 Terrestrial radiation  
 Weather

**Cloud height**

BT: Height  
 RT: Clouds

**Cloud physics**

BT: Atmospheric physics  
 RT: Clouds

**Cloudiness**

USE: **Cloud cover**

**Clouds**

UF: Cumulus  
 BT: Hydrometeors  
 NT: Fog  
 RT: Atmospheric precipitations  
 Cloud cover  
 Cloud height  
 Cloud physics  
 Weather

**Clupeoid fisheries**

UF: Anchovy fisheries  
 Herring fisheries  
 Pilchard fisheries  
 Sardine fisheries  
 Sardinella fisheries  
 Sprat fisheries  
 BT: Finfish fisheries  
 RT: Bait fisheries  
 Coastal fisheries

**Clutch**

UF: Clutch size  
 RT: Bird eggs  
 Hatching  
 Nesting  
 Nests

**Clutch size**

USE: **Clutch**

**Cnoidal waves**

BT: Shallow water waves  
 RT: Surface gravity waves

**CNS**

USE: **Central nervous system**

**Co-management**

SN: The practice of managing something jointly (e.g. between Government and community)  
 UF: Comanagement  
 BT: Management  
 RT: Participatory approach  
 Planning

**Coagulants**

UF: Coagulators  
 BT: Agents  
 RT: Anticoagulants  
 Chemical precipitation  
 Coagulation  
 Drugs

**Coagulation**

BT: Chemical reactions  
 RT: Biochemical oxygen demand  
 Coagulants  
 Flotation  
 Water treatment

Coagulators

USE: **Coagulants**

**Coal**

BT: Fossil fuels

Coamplitude lines

USE: **Isopleths**

**Coarse fish**

SN: Freshwater fish not belonging to the family Salmonidae  
 BT: Freshwater fish

Coast accretion

USE: **Progradation**

**Coast defences**

SN: Before 1982 search also COASTAL STRUCTURES  
 BT: Coastal structures  
 NT: Breakwaters  
 Groynes  
 Sea walls  
 Storm surge barriers  
 RT: Beach erosion  
 Coastal engineering  
 Coastal zone  
 Coastal zone management  
 Shore protection

**Coast effect**

RT: Electrical exploration  
 Gravity exploration  
 Magnetic exploration  
 Magnetotelluric methods  
 Telluric currents

Coast protection

USE: **Shore protection**

Coastal aquaculture

USE: **Marine aquaculture**

**Coastal aquifers**

BT: Aquifers  
 RT: Ground water  
 Groundwater pollution  
 Saline intrusion  
 Water resources

**Coastal atmospheric fronts**

SN: These weather fronts typically develop in coastal waters or within 100–200 km of the coast during the cooler half of the year when the land is cold relative to the ocean  
 UF: Coastal fronts (meteorological)  
 Coastal weather fronts  
 Meteorological weather fronts  
 BT: Atmospheric fronts  
 RT: Coastal fronts

**Coastal boundary layer**

BT: Boundary layers  
 RT: Coastal jets  
 Lake dynamics  
 Nearshore dynamics

Coastal circulation

USE: **Shelf dynamics**

**Coastal countercurrents**

BT: Countercurrents  
 RT: Coastal currents  
 Coastal upwelling  
 Shelf dynamics  
 Undercurrents

Coastal countries

USE: **Coastal states**

**Coastal currents**

BT: Water currents  
 RT: Coastal countercurrents  
 Coastal oceanography  
 Nearshore currents  
 Upwelling  
 Wind-driven currents

Coastal currents (littoral)

USE: **Nearshore currents**

Coastal dunes

USE: **Dunes**

**Coastal engineering**

BT: Engineering  
 RT: Civil engineering  
 Coast defences  
 Coastal structures  
 Coastal zone management  
 Geotechnology  
 Marine technology  
 River engineering  
 Shore protection  
 Structural engineering

Coastal environment

USE: **Coastal zone**

**Coastal erosion**

UF: Shoreline erosion  
 BT: Erosion  
 NT: Beach erosion  
 RT: Breakwaters  
 Coastal landforms  
 Coastal zone  
 Coasts  
 Deltas  
 Land reclamation  
 Retrogradation  
 Sediment transport  
 Shore protection

Coastal erosion features

USE: **Erosion features**

**Coastal fisheries**

BT: Fisheries  
 RT: Artisanal fisheries  
 Artisanal fishing  
 Clupeoid fisheries  
 Crustacean fisheries  
 Echinoderm fisheries  
 Estuarine fisheries  
 Fishing barriers  
 Lake fisheries  
 Marine fisheries  
 Percoid fisheries  
 Scallop fisheries

**Coastal fronts**

SN: Coastal ocean fronts are boundaries between water masses with dissimilar properties. They include Shelf edge fronts (formed at the edges of continental shelves); Shallow-sea fronts or Tidal fronts (formed in shallow seas where well-stratified offshore waters meet with coastal waters which are well-mixed), and Estuarine fronts (formed near river mouths, at the meeting of diluted waters and coastal full salinity waters)  
 UF: Coastal fronts (oceanographic)  
 BT: Fronts  
 NT: Estuarine fronts  
 Shelf edge fronts  
 Tidal fronts  
 RT: Benthic fronts  
 Coastal atmospheric fronts  
 Plumes  
 Upwelling

Coastal fronts (meteorological)

USE: **Coastal atmospheric fronts**

Coastal fronts (oceanographic)

USE: **Coastal fronts**

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**Coastal geodesy**

BT: Geodesy  
RT: Marine geodesy

**Coastal inlets**

UF: Creeks  
Voes  
BT: Coastal landforms  
Coastal waters  
NT: Bays  
Drowned valleys  
Estuaries  
Fjords  
Inlets (waterways)  
Tidal inlets  
RT: Coastal lagoons  
Coastal oceanography  
Coastal zone  
Coasts

**Coastal jets**

BT: Jets  
RT: Coastal boundary layer  
Lake currents  
Lake dynamics  
Longshore currents  
Nearshore dynamics  
Shelf dynamics

**Coastal lagoons**

UF: Haff  
BT: Lagoons  
RT: Barrier islands  
Barrier spits  
Brackishwater ecology  
Brackishwater environment  
Coastal inlets  
Coastal waters  
Sabkhas

**Coastal landforms**

UF: Coastal topographic features  
Shoreline features  
BT: Landforms  
NT: Barrier islands  
Beaches  
Caves  
Chenier plains  
Cliffs  
Coastal inlets  
Deltas  
Headlands  
Palaeoshorelines  
Rocky shores  
Stacks  
Tidal flats  
RT: Coastal erosion  
Coastal morphology  
Drowned valleys

**Coastal marshes**

SN: Coastal marshes can be tidal marshes or non-tidal marshes; they can be fresh water, saline or brackish  
BT: Marshes  
RT: Salt marshes

Tidal marshes

**Coastal morphology**

UF: Morphology (coastal)  
BT: Geomorphology  
NT: Beach morphology  
RT: Coastal landforms  
Lake shores  
Progradation  
Retrogradation

Coastal nations

USE: **Coastal states**

**Coastal oceanography**

UF: Nearshore oceanography  
BT: Oceanography  
RT: Coastal currents  
Coastal inlets  
Coastal waters  
Estuarine dynamics  
Nearshore currents  
Nearshore dynamics  
Shelf dynamics

Coastal planning

USE: **Coastal zone management**

Coastal reclamation

USE: **Land reclamation**

Coastal resource management

USE: **Coastal zone management**

**Coastal states**

UF: Coastal countries  
Coastal nations  
Littoral states  
Sea states (countries)  
BT: Countries  
RT: Coastal zone  
Exclusive economic zone  
Extended jurisdiction  
Landlocked states  
Territorial waters

**Coastal structures**

BT: Hydraulic structures  
NT: Coast defences  
Piers  
Port installations  
RT: Barrages  
Coastal engineering  
Coastal zone management  
Design wave  
Harbours  
Shore protection

Coastal topographic features

USE: **Coastal landforms**

Coastal trapped waves

USE: **Trapped waves**

**Coastal upwelling**

BT: Upwelling  
RT: Coastal countercurrents

Eastern boundary currents  
El Nino phenomena  
Shelf dynamics  
Trade winds

**Coastal waters**

UF: Inshore waters  
BT: Water bodies  
NT: Coastal inlets  
Straits  
RT: Coastal lagoons  
Coastal oceanography  
Coastal zone  
Coasts  
Land-based pollution  
Littoral zone  
Marginal seas  
Nearshore dynamics  
Shelf dynamics

Coastal weather fronts

USE: **Coastal atmospheric fronts**

**Coastal zone**

SN: The band of dry land and adjacent ocean space in which land ecology and use directly affect ocean space ecology and use, and vice versa  
UF: Coastal environment  
Nearshore environment  
RT: Beaches  
Coast defences  
Coastal erosion  
Coastal inlets  
Coastal states  
Coastal waters  
Coastal zone management  
Coasts  
Land-based pollution  
Littoral zone  
Marine environment  
Riparian zone  
Tidal flats  
Tidal fronts

**Coastal zone management**

UF: Coastal planning  
Coastal resource management  
BT: Ecosystem management  
NT: Integrated coastal zone management  
Shore protection  
RT: Coast defences  
Coastal engineering  
Coastal structures  
Coastal zone  
Dune stabilization  
Ecosystem approach  
Lake reclamation  
Land management  
Land reclamation

**Coastguards**

RT: Surveillance and enforcement

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Coastlines

USE: **Coasts**

**Coasts**

UF: Coastlines  
Sea coast  
Seacoast  
Shorelines  
BT: Landforms  
NT: Emergent shorelines  
Relict shorelines  
Strandlines  
Submerged shorelines  
RT: Beaches  
Coastal erosion  
Coastal inlets  
Coastal waters  
Coastal zone  
Deltas  
Dunes  
Progradation  
Regressions  
Retrogradation  
Rip currents  
Riparian environments  
Rocky shores  
Transgressions

**Coating materials**

UF: Coatings  
Protective coatings  
BT: Materials  
NT: Paints  
Plastic coatings  
Primers  
RT: Antifouling substances  
Coating processes  
Fouling control

**Coating processes**

RT: Coating materials  
Corrosion control  
Fouling control

Coatings

USE: **Coating materials**

**Coaxial cables**

BT: Electric cables  
RT: Submarine cables

**Cobalt**

BT: Heavy metals  
Transition elements  
RT: Cobalt compounds  
Cobalt isotopes  
Ferromanganese nodules

**Cobalt compounds**

BT: Chemical compounds  
RT: Cobalt

**Cobalt isotopes**

BT: Isotopes  
RT: Cobalt

Cobbles

USE: **Cobblestone**

**Cobblestone**

UF: Cobbles  
BT: Clastics  
Sedimentary rocks  
RT: Boulders  
Rudites

**Coccoliths**

SN: Minute calcareous plates of algal, protozoan or protist origin  
RT: Calcareous ooze  
Carbonate sediments  
Chalk  
Nannofossil ooze

Cockle fisheries

USE: **Clam fisheries**

Cod fisheries

USE: **Gadoid fisheries**

**Codends**

SN: End part of a trawl net which retains the catch  
BT: Fishing nets  
RT: Bottom trawls  
Gear construction  
Mesh selectivity  
Midwater trawls  
Otter boards  
Trawl nets  
Trawling

Codes of practice

USE: **Standards**

Codex alimentarius

USE: **Codex standards**

**Codex standards**

SN: International standards for fish and fishery products  
UF: Codex alimentarius  
BT: Standards  
RT: Fish inspection regulations  
Food-chain approach  
Processing fishery products

Coefficient of eddy viscosity

USE: **Eddy viscosity coefficient**

**Coefficients**

NT: Exchange coefficients  
RT: Constants  
Kurtosis  
Ratios  
Skewness

**Coelom**

BT: Body cavities  
RT: Amoebocytes  
Coelomic fluids

**Coelomic fluids**

BT: Body fluids  
RT: Coelom

Coenobia

USE: **Colonies**

**Coenzymes**

UF: Glutathione  
BT: Enzymes  
NT: Cytochromes  
RT: Vitamins

Coherent Light Detection and Ranging

USE: **Lidar**

**Cohesionless sediments**

UF: Non-cohesive sediments  
BT: Sediments  
RT: Cohesive sediments  
Fluidized sediment flow  
Grain flow  
Gravel  
Silt  
Turbidity currents

**Cohesive sediments**

BT: Sediments  
RT: Cohesionless sediments  
Mud  
Shear strength  
Soil mechanics  
Vane shear testing

Cohort analysis

USE: **Virtual population analysis**

**Cohorts**

RT: Ecological associations

Cold blooded animals

USE: **Poikilothermy**

**Cold branding**

SN: Marking fish with liquid nitrogen  
UF: Freeze branding  
Kryogenic marking  
BT: Marking

Cold fronts

USE: **Atmospheric fronts**

**Cold resistance**

UF: Frost resistance  
BT: Biological resistance  
RT: Cold shock  
Cryobiology  
Temperature tolerance

**Cold season**

BT: Seasons  
RT: Air temperature  
Water temperature  
Winter

**Cold shock**

BT: Temperature effects  
RT: Cold resistance  
Heat shock

**Cold storage**

UF: Refrigeration storage  
BT: Storage  
NT: Chilling storage  
Freezing storage  
RT: Fish storage  
Refrigeration  
Refrigerators

**Cold tolerance**

USE: **Temperature tolerance**

**Cold water diseases**

USE: **Peduncle disease**

**Cold water masses**

BT: Water masses  
RT: Temperature sections  
Thermal stratification  
Water temperature

**Coliforms**

BT: Bacteria  
NT: Faecal coliforms  
RT: Indicator species  
Manure  
Pollution monitoring  
Sewage  
Water quality

**Collagen**

BT: Proteins  
RT: Connective tissues

**Collapse strength**

BT: Strength  
RT: Deformation  
Yield point

**Collected papers**

UF: Festschriften  
Honour volumes  
BT: Documents

**Collecting devices**

SN: Devices for collection of aquatic organisms  
NT: Bacteria collecting devices  
Benthos collecting devices  
Nekton collecting devices  
Plankton collecting devices  
RT: Biological sampling  
Limnological equipment  
Oceanographic equipment  
Samplers  
Sediment traps

**Collections**

SN: Use of a more specific term is recommended  
NT: Biological collections  
Data collections

Geological collections  
Mineral collections  
Museum collections  
Sediment collections  
RT: Catalogues

**Collision avoidance**

RT: Collisions  
Navigation regulations  
Navigational safety  
Radar navigation  
Traffic management

**Collisions**

UF: Impacts  
BT: Accidents  
RT: Collision avoidance  
Navigational safety  
Ship losses  
Sinking

**Colloidal clay**

BT: Clays  
Suspended inorganic matter  
RT: Colloids

**Colloids**

UF: Dispersions (chemical)  
NT: Aerosols  
Gels  
RT: Agar  
Body fluids  
Chemical precipitation  
Colloidal clay  
Dialysis  
Electrophoresis  
Emulsions  
Enzymes  
Flocculation  
Foams  
Suspended particulate matter  
Turbidity

**Colloquia**

USE: **Conferences**

**Colonies**

UF: Coenobia  
RT: Colonization  
Ecological associations  
Gemmules  
Introduced species

**Colonisation**

USE: **Colonization**

**Colonization**

UF: Colonisation  
RT: Biological settlement  
Colonies  
Ecosystem resilience  
Habitat selection  
Introduced species  
Seeding (aquaculture)  
Settling behaviour  
Substrate preferences

**Color**

USE: **Colour**

**Coloration**

USE: **Colour**

**Colorimetric techniques**

UF: Colorimetry  
BT: Analytical techniques  
RT: Chromatographic techniques  
Colour  
Light measurement  
Photometry  
Spectroscopic techniques

**Colorimetry**

USE: **Colorimetric techniques**

**Colour**

UF: Color  
Coloration  
BT: Optical properties  
NT: Water colour  
RT: Chromatic adaptations  
Chromatic pigments  
Colorimetric techniques  
Discolouration  
Spectral composition

**Columbium**

USE: **Niobium**

**Comanagement**

USE: **Co-management**

**Commensalism**

BT: Interspecific relationships  
RT: Commensals  
Epizotes  
Parasites  
Symbiosis

**Commensals**

RT: Commensalism  
Symbionts

**Commerce**

RT: Economics  
Private sector  
Trade

**Commercial aquaculture**

USE: **Aquaculture enterprises**

**Commercial availability**

SN: Commercial availability of primary and secondary fishery products  
BT: Availability

**Commercial exploitation**

USE: **Exploitation**

**Commercial fisheries**

USE: **Fisheries**

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### Commercial fishing

SN: Any activities of fishing or harvesting of aquatic organisms for commercial purposes

BT: Fishing

NT: Foreign fishing

Overfishing

Underfishing

RT: Commercial species

Fishing down aquatic food webs

Fishery industry

Industrial fisheries

Commercial land use

USE: **Land use**

### Commercial legislation

SN: Before 1982 search

MARKETING LEGISLATION

UF: Marketing legislation

BT: Legislation

NT: Fish inspection regulations

RT: Pricing

Quality control

Commercial organizations

USE: **Companies**

### Commercial species

SN: Animal or vegetal aquatic species of commercial value

UF: Economic species

BT: Species

NT: Underutilized species

RT: Catch composition

Commercial fishing

Commercialization

USE: **Marketing**

Comminuted products

USE: **Minced products**

Commodity statistics

USE: **Industrial products statistics**

Common names

USE: **Vernacular names**

### Common property resources

SN: Natural resources held or used by all who choose to do so

UF: Open access resources

Shared resources

BT: Natural resources

RT: Fishing capacity

Common salt

USE: **Sodium chloride**

Communicable diseases

USE: **Infectious diseases**

### Communication

NT: Animal communication

Satellite communication

RT: Communication systems

Speech distortion

### Communication satellites

BT: Satellites

RT: Satellite communication

### Communication systems

SN: Before 1982 search also

COMMUNICATION DEVICES

UF: Telecommunications

NT: Internet

Radio

Social media

Telephone systems

Television systems

Telex

RT: Communication

Diving equipment

Microwaves

Radio buoys

Standard signals

Submarine cables

Telemetry

Communities (ecological)

USE: **Aquatic communities**

### Community composition

BT: Composition

RT: Aquatic communities

Biocoenosis

Biological surveys

Biota

Climax community

Community structure

Dominant species

Ecological succession

Species diversity

Community diversity

USE: **Species diversity**

Community fishery networks

USE: **Community fishing**

### Community fishing

SN: A fishing activity exerted in public or communal waters generally designed to meet community needs

UF: Community fishery networks

Community fishing (local food security)

Community supported fishing

BT: Fishing

RT: Fishery industry

Fishery institutions

Fishing communities

Food security

Community fishing (local food security)

USE: **Community fishing**

Community fishing (recreational)

USE: **Sport fishing**

Community involvement

USE: **User participation**

Community participation

USE: **User participation**

### Community planning

BT: Planning

RT: User participation

### Community structure

RT: Aquatic communities

Biodiversity

Biometrics

Climax community

Community composition

Species diversity

Community supported fishing

USE: **Community fishing**

### Compaction

BT: Diagenesis

RT: Bearing capacity

Consolidation

Lithification

Porosity

Settlement (structural)

Soil mechanics

### Companies

UF: Commercial organizations

BT: Organizations

### Comparative studies

RT: Cost analysis

Compartmental models

USE: **Mathematical models**

### Compasses

UF: Magnetic compasses

BT: Direction indicators

Measuring devices

Navigational aids

NT: Gyrocompasses

RT: Surveying

### Compensation depth

SN: Zone in aquatic environment where just enough light penetrates for the rate of photosynthesis to equal the rate of respiration

UF: Compensation level

NT: Carbonate compensation depth

RT: Aerobic respiration

Euphotic zone

Light penetration

Photosynthesis

Primary production

Compensation depth (carbonate)  
USE: **Carbonate compensation depth**

Compensation depth (isostasy)  
USE: **Isostasy**

Compensation depth (oceans)  
USE: **Carbonate compensation depth**

Compensation level  
USE: **Compensation depth**

**Competition**  
UF: Biological competition  
BT: Interspecific relationships  
RT: Associated species  
Biotic pressure  
Competitive behaviour  
Competitors  
Dominance hierarchies  
Food availability  
Natural selection  
Overcrowding  
Prey selection

**Competitive behaviour**  
BT: Behaviour  
RT: Competition  
Competitors  
Home range  
Territoriality

**Competitors**  
RT: Competition  
Competitive behaviour  
Predators

Completion (well)  
USE: **Well completion**

**Complex lipids**  
UF: Glycolipids  
Phospholipids  
Sphingolipids  
BT: Lipids  
RT: Bioactive compounds

Compliant platforms  
USE: **Guyed towers**

Compliant towers  
USE: **Guyed towers**

**Components**  
RT: Equipment  
Materials

Composite cultures  
USE: **Polyculture**

**Composite materials**  
BT: Materials

**Composition**  
SN: The nature of the elements present in a substance or organism and the proportion in which they occur. Use of a more specific term is recommended  
NT: Biochemical composition  
Chemical composition  
Community composition  
Mineral composition  
Sediment composition  
RT: Major constituents

Compost  
USE: **Composts**

**Composting**  
RT: Composts  
Degradation  
Manure  
Waste disposal  
Wastes

**Composts**  
UF: Compost  
BT: Organic fertilizers  
RT: Composting  
Humus  
Manure

**Compound eyes**  
BT: Eyes

Compounds (organic)  
USE: **Organic compounds**

**Compressed gas**  
BT: Gases  
RT: Compressors

**Compressibility**  
BT: Mechanical properties  
RT: Bulk modulus  
Compression  
Elasticity  
Plasticity  
Porosity

**Compression**  
BT: Stress (mechanics)  
RT: Compressibility  
Deformation  
Lithification  
Pressure

Compression chambers  
USE: **Decompression chambers**

Compression tables  
USE: **Decompression tables**

**Compressional wave velocities**  
BT: Seismic velocities  
RT: P-waves

Compressional waves (seismic)  
USE: **P-waves**

**Compressive strength**  
BT: Strength  
RT: Poisson's ratio

**Compressors**  
UF: Air compressors  
RT: Compressed gas  
Diving equipment

**Computation**  
RT: Computer programs  
Mathematics  
Models

Computed tomography  
USE: **Tomography**

Computer aided cartography  
USE: **Automated cartography**

Computer models  
USE: **Mathematical models**

Computer programmes  
USE: **Computer programs**

**Computer programs**  
SN: Before 1986 search also  
COMPUTER PROGRAMMES  
UF: Computer programmes  
RT: Algorithms  
Artificial intelligence  
Computation  
Computers  
Data processing  
Linear programming  
Numerical analysis  
System analysis

Computerized axial tomography  
USE: **Tomography**

**Computers**  
SN: Before 1985 search also  
MINICOMPUTERS  
UF: Microcomputers  
Minicomputers  
Shipboard computers  
BT: Electronic equipment  
RT: Automation  
Computer programs  
Data processing  
Data storage  
Internet  
Microprocessors  
Robots

**Concessions**  
SN: Use only for rights to exploit or explore for mineral resources  
UF: Mineral rights  
BT: Licences  
RT: Mineral exploration



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- Mining legislation  
Oil and gas exploration  
Oil and gas legislation
- Conch culture**  
SN: Before 2016 search  
MOLLUSC CULTURE  
BT: Gastropod culture
- Conch fisheries  
USE: **Gastropod fisheries**
- Conchology**  
SN: The branch of zoology dealing with shells of animals (molluscs, brachiopods, etc.)  
BT: Zoology  
RT: Malacology  
Shells
- Concrete**  
UF: Cement (building material)  
BT: Construction materials  
NT: Prestressed concrete  
Reinforced concrete  
RT: Concrete structures
- Concrete platforms  
USE: **Concrete structures**
- Concrete structures**  
SN: Before 1986 search also  
CONCRETE PLATFORMS  
UF: Concrete platforms  
BT: Structures  
RT: Concrete  
Offshore structures  
Steel structures
- Concretions**  
SN: Use only for mineral deposits formed within sediments  
UF: Crusts (rocks)  
Encrustations  
BT: Chemical sediments  
RT: Cherts  
Nodules  
Ooids  
Oolites  
Sedimentary structures
- Condensate fields  
USE: **Gas condensate fields**
- Condensation**  
BT: Phase changes  
RT: Dew point  
Evaporation  
Hydrometeors  
Saturation  
Sublimation  
Vaporization heat  
Vapour pressure  
Water vapour
- Condition factor**  
UF: Ponderal index
- BT: Population factors  
RT: Body conditions  
Growth  
Length-weight relationships
- Conductance (electrical)  
USE: **Electrical conductivity**
- Conduction (heat)  
USE: **Heat conduction**
- Conductive heat transfer  
USE: **Heat conduction**
- Conductivity-temperature-depth observations  
USE: **CTD observations**
- Conductivity-temperature-depth profilers  
USE: **CTD profilers**
- Conductivity-temperature depth profilers  
USE: **CTD profilers**
- Conductivity (electrical)  
USE: **Electrical conductivity**
- Conductivity (thermal)  
USE: **Thermal conductivity**
- Conductivity probes  
USE: **Conductivity sensors**
- Conductivity ratio**  
BT: Ratios  
RT: Electrical conductivity
- Conductivity sensors**  
UF: Conductivity probes  
Electrical conductivity sensors  
BT: Sensors  
RT: CTD profilers  
Electrical conductivity  
Salinity measuring equipment  
STD profilers
- Conferences**  
SN: Use only to index the monographic entry for bound proceedings, and general reports on meetings; do not use for individual (analytic) conference papers  
UF: Colloquia  
Meetings  
Proceedings  
Seminars  
Symposia  
Workshops  
RT: Exhibitions  
Lectures  
Organizations
- Configuration  
USE: **Shape**
- Conflict of interests  
USE: **Disputes**
- Conflicts  
USE: **Disputes**
- Conglomerates**  
RT: Breccia  
Calcrete  
Kimberlites
- Conidia**  
SN: Asexually formed spores produced by fungi  
BT: Spores  
RT: Asexual reproduction  
Fungi
- Conjugation**  
RT: Sexual reproduction
- Connecting**  
UF: Coupling (joining components)  
Tie-in  
RT: Connectors  
Pipeline construction
- Connective tissues**  
BT: Tissues  
NT: Cartilage  
RT: Blood  
Blood vessels  
Bones  
Collagen  
Musculoskeletal system  
Nerves
- Connectors**  
UF: Couplings (components)  
Underwater connectors  
RT: Connecting  
Electric cables  
Manifolds
- Conservation**  
SN: Conservation of nature and resources. Use of a more specific term is recommended  
UF: Stream conservation  
NT: Nature conservation  
Resource conservation  
Soil conservation  
Water conservation  
RT: Conservation principles  
Depletion  
Ecosystem approach  
Environmental legislation  
Environmental protection  
Reclamation  
Vulnerable marine ecosystems
- Conservation (fishery products)  
USE: **Processing fishery products**

Conservation (organisms)  
USE: **Fixation**

**Conservation equations**

BT: Equations  
RT: Diffusion  
Equation of continuity

**Conservation of angular momentum**

BT: Conservation of momentum  
RT: Angular momentum  
Conservation of vorticity

**Conservation of energy**

BT: Conservation principles  
RT: Energy

**Conservation of heat**

BT: Conservation principles  
RT: Heat  
Heat transport

**Conservation of mass**

BT: Conservation principles  
RT: Equation of continuity  
Mass

**Conservation of momentum**

UF: Momentum conservation  
BT: Conservation principles  
NT: Conservation of angular momentum  
RT: Momentum

**Conservation of salt**

BT: Conservation principles  
RT: Salt advection  
Salt budget  
Salts  
Water exchange

Conservation of volume

USE: **Equation of continuity**

**Conservation of vorticity**

BT: Conservation principles  
RT: Absolute vorticity  
Barotropic mode  
Conservation of angular momentum  
Mesoscale eddies

**Conservation principles**

NT: Conservation of energy  
Conservation of heat  
Conservation of mass  
Conservation of momentum  
Conservation of salt  
Conservation of vorticity  
RT: Conservation

**Conservative properties**

BT: Properties  
RT: Enthalpy  
Non-conservative properties  
Salinity

Water masses

**Consolidation**

BT: Diagenesis  
RT: Cementation  
Compaction  
Lithification  
Soil mechanics

**Constants**

NT: Association constants  
Elastic constants  
Solar constant  
Stability constants  
RT: Coefficients  
Ratios

**Construction**

UF: Assembling  
NT: Installation  
Pipeline construction  
RT: Construction materials

**Construction materials**

BT: Materials  
NT: Concrete  
RT: Construction  
Fibre glass

**Consultants**

BT: Personnel  
RT: Experts  
Scientific personnel

**Consumer protection**

UF: Consumer safety  
BT: Health and safety  
RT: Consumers  
Food-chain approach  
Food contamination  
Food safety  
Water quality  
Water supply  
Water treatment

Consumer safety

USE: **Consumer protection**

**Consumers**

UF: Purchasers  
RT: Consumer protection  
Purchasing

Consumption

USE: **Food consumption**

Contagious diseases

USE: **Infectious diseases**

Container ports

USE: **Ferry terminals**

**Container ships**

BT: Merchant ships  
RT: Cargo handling

**Containers**

UF: Boxes  
Cans  
Packages  
NT: Tanks  
RT: Cargo handling

**Containment**

BT: Pollution control  
RT: Barrages  
Barriers  
Oil slicks  
Oil spills

Contaminants (food)

USE: **Food contamination**

Contaminants (pollution)

USE: **Pollutants**

Contamination (food)

USE: **Food contamination**

Contamination (internal)

USE: **Radionuclide kinetics**

Contamination (pollutants)

USE: **Pollution**

Contamination (radioactive)

USE: **Radioactive contamination**

Contamination of samples

USE: **Sample contamination**

Contiguous fishing zones

USE: **Contiguous zones**

**Contiguous zones**

SN: Offshore area claimed by a nation for exclusive fishing rights  
UF: Contiguous fishing zones  
BT: Ocean space  
RT: Exclusive economic zone  
Fishery boundaries  
Fishing rights  
Territorial waters

Continental aerosols

USE: **Aerosols**

Continental borderland

USE: **Continental margins**

**Continental crust**

BT: Earth crust  
RT: Continents  
Cratons  
Obduction  
Oceanic crust  
Oceanization  
Sial

**Continental drift**

UF: Continental migration  
Drift (continental)

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Wegener hypothesis  
 RT: Continents  
 Drift  
 Earth mantle  
 Moho  
 Ocean basins  
 Palaeoclimate  
 Palaeomagnetism  
 Plate tectonics  
 Polar wandering  
 Seafloor spreading  
 Tectonophysics

**Continental margins**  
 SN: Before 1994 search also  
 CONTINENTAL  
 BORDERLAND  
 UF: Borderland (continental)  
 Continental borderland  
 Margins (continental)  
 BT: Submarine features  
 NT: Active margins  
 Passive margins  
 RT: Continental rise  
 Continental shelves  
 Continental slope  
 Continents  
 Cratons  
 Island arcs  
 Oceanic trenches

Continental migration  
 USE: **Continental drift**

Continental nations  
 USE: **Landlocked states**

**Continental ridges**  
 BT: Ridges  
 Submarine features

**Continental rise**  
 UF: Rise (continental)  
 BT: Submarine features  
 RT: Abyssal plains  
 Continental margins  
 Continental shelves  
 Continental slope  
 Contour currents  
 Nepheloid layer  
 Ocean floor

Continental shelf  
 USE: **Continental shelves**

Continental shelf break  
 USE: **Shelf edge**

Continental shelf edge  
 USE: **Shelf edge**

**Continental shelves**  
 SN: Before 1982 search also  
 CONTINENTAL SHELF  
 UF: Continental shelf  
 BT: Submarine features  
 NT: Outer continental shelf

RT: Continental margins  
 Continental rise  
 Continental slope  
 Littoral zone  
 Marine environment  
 Mud volcanoes  
 Neritic province  
 Offshore  
 Shallow water  
 Shelf-edge fronts  
 Shelf dynamics  
 Shelf edge  
 Shelf edge fronts  
 Shelf geology  
 Shelf seas  
 Shelf sedimentation  
 Submarine canyons  
 Territorial waters

**Continental slope**  
 BT: Submarine features  
 RT: Continental margins  
 Continental rise  
 Continental shelves  
 Continents  
 Contour currents  
 Island slope  
 Marginal basins  
 Ocean floor  
 Shelf edge  
 Slope environment  
 Slopes (topography)  
 Slumping  
 Submarine canyons

**Continents**  
 BT: Landforms  
 RT: Continental crust  
 Continental drift  
 Continental margins  
 Continental slope  
 Cratons  
 Earth structure  
 Epeirogeny  
 Island arcs

Continuity equation  
 USE: **Equation of continuity**

**Continuous culture**  
 BT: Aquaculture techniques  
 RT: Aquaria  
 Batch culture  
 Culture tanks  
 Phytoplankton culture  
 Zooplankton culture

Continuous profilers  
 USE: **Profilers**

Continuous tracking  
 USE: **Tracking**

**Contour currents**  
 BT: Surface currents  
 RT: Bed forms  
 Bottom erosion

Continental rise  
 Continental slope  
 Contourites  
 Nepheloid layer  
 Topographic effects  
 Western boundary  
 undercurrents

Contour feathers  
 USE: **Feathers**

**Contourites**  
 BT: Clastics  
 RT: Contour currents

**Contours**  
 BT: Isopleths  
 NT: Isobaths  
 RT: Depth  
 Profiles  
 Shape  
 Topography

**Contraception**  
 SN: Use of devices, agents or  
 procedures which prevent  
 impregnation or conception  
 NT: Immunocontraception  
 RT: Castration  
 Organ removal  
 Ovariectomy

Contractile vacuole  
 USE: **Cell organelles**

**Contractors**  
 BT: Personnel  
 RT: Contracts

**Contracts**  
 RT: Contractors

**Control**  
 SN: Use of a more specific term is  
 recommended  
 UF: Control systems  
 NT: Biological control  
 Blowout control  
 Chemical control  
 Corrosion control  
 Depth control  
 Disease control  
 Erosion control  
 Flood control  
 Fouling control  
 Parasite control  
 Pest control  
 Plant control  
 Pollution control  
 Population control  
 Predator control  
 Quality control  
 Remote control  
 RT: Control resistance  
 Damping  
 Monitoring

**Control charts**

BT: Maps  
RT: Critical path method  
Quality control

**Control resistance**

UF: Antibiotic resistance  
Chemical resistance  
Resistance to chemicals  
BT: Biological resistance  
NT: Pesticide resistance  
RT: Control  
Drug resistance

Control systems

USE: **Control**

**Controlled conditions**

UF: Laboratory conditions  
RT: Experimental research  
Laboratories  
Laboratory culture

**Convection**

UF: Convective heat transfer  
BT: Advection  
NT: Atmospheric convection  
Cellular convection  
Forced convection  
Mantle convection  
Oceanic convection  
RT: Heat transfer  
Heat transport  
Mass transfer

Convective heat transfer

USE: **Convection**

Convective overturn

USE: **Overturn**

Conventions

USE: **International agreements**

**Convergence**

NT: Plate convergence  
RT: Convergence zones  
Divergence  
Downwelling  
Frontal features  
Frontogenesis  
Horizontal motion  
Langmuir circulation  
Oceanic fronts  
Tidal fronts

**Convergence zones**

NT: Atmospheric convergences  
Intertropical convergence zone  
Oceanic convergences  
RT: Advection  
Convergence  
Divergence zones  
Frontal features  
Fronts  
Water masses

Convergent evolution

USE: **Evolution**

Convergent margins

USE: **Active margins**

**Converging plate boundaries**

BT: Plate boundaries  
RT: Diverging plate boundaries  
Island arcs  
Oceanic trenches  
Plate convergence  
Subduction zones

Conversion efficiency

USE: **Food conversion**

**Conversion factors**

RT: Animal metabolism  
Bioenergetics  
Conversion tables  
Feed efficiency  
Oxygen consumption

**Conversion tables**

UF: Nomograms  
BT: Tables  
RT: Conversion factors  
Meteorological tables  
Numerical analysis  
Oceanographic tables

Conversion tables (meteorology)

USE: **Meteorological tables**

**Convolution**

BT: Mathematical analysis  
RT: Cross correlation  
Deconvolution  
Seismic data processing

**Cooling**

UF: Heat dissipation  
BT: Heat transfer  
RT: Cooling ponds  
Cooling systems  
Cooling water  
Freezing  
Heating

**Cooling ponds**

BT: Ponds  
RT: Cooling  
Power plants  
Thermal pollution

**Cooling systems**

RT: Cooling  
Open systems

**Cooling water**

BT: Water  
RT: Cooling  
Entrainment  
Power plants  
Thermal pollution

**Cooperatives**

UF: Fishery cooperatives  
RT: Fishery organizations

**Coordinate systems**

UF: Cartesian coordinates  
RT: Geodetic coordinates  
Geographical coordinates

Copepod culture

USE: **Crustacean culture**

Copolymerization

USE: **Polymerization**

**Copper**

BT: Heavy metals  
Transition elements  
RT: Copper compounds  
Ferromanganese nodules  
Haemocyanins  
Metalliferous sediments

**Copper compounds**

BT: Chemical compounds  
RT: Copper

**Coprecipitation**

BT: Chemical precipitation  
RT: Flocculation

**Coral**

SN: Before 1982 search also  
CORALS  
BT: Animal products  
RT: Atolls  
Calcium compounds  
Coral farming  
Coral reefs

**Coral bleaching**

SN: Before 2016 search also  
BLEACHING  
UF: Bleaching (coral)  
Coral reef bleaching  
BT: Biological stress  
RT: Coral reef conservation  
Environmental factors  
Stimuli

Coral culture

USE: **Coral farming**

**Coral farming**

UF: Coral culture  
BT: Cultures  
RT: Coral  
Coral reefs  
Marine aquaculture

Coral islands

USE: **Atolls**

Coral reef bleaching

USE: **Coral bleaching**

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**Coral reef conservation**

BT: Nature conservation  
RT: Coral bleaching  
Coral reefs  
Reef fish  
Reef fisheries

**Coral reef restoration**

BT: Environmental restoration  
RT: Coral reefs  
Reef fish  
Reef fisheries

**Coral reefs**

UF: Reefs (coral)  
BT: Biogenic deposits  
Reefs  
NT: Barrier reefs  
Fringing reefs  
RT: Atolls  
Biogenic sedimentary structures  
Bioherms  
Carbonate rocks  
Cays  
Coral  
Coral farming  
Coral reef conservation  
Coral reef restoration  
Lagoons  
Marine environment  
Polyps  
Reef fish  
Reef fisheries  
Tropical fish

Corange charts

USE: **Tidal charts**

Corange lines

USE: **Isopleths**

Core (earth)

USE: **Earth core**

**Core analysis**

BT: Analysis  
Sediment analysis  
RT: Core handling  
Cores

**Core handling**

RT: Core analysis  
Core recovery  
Cores  
Coring  
Sample storage

**Core layer method**

RT: Core layers (water)  
Outflow waters  
T-S diagrams  
Water mixing

**Core layers (water)**

BT: Layers  
NT: Oxygen maximum layer  
Oxygen minimum layer

Salinity maximum layer  
Salinity minimum layer  
Temperature maximum layer  
Temperature minimum layer  
RT: Core layer method  
T-S diagrams  
Water masses  
Water types

**Core orientation**

UF: Magnetic core orientation  
BT: Orientation  
RT: Cores  
Remanent magnetization

**Core recovery**

BT: Recovery  
RT: Core handling  
Cores  
Coring

Core samples

USE: **Cores**

Core sampling

USE: **Coring**

**Corers**

SN: Before 1982 search CORING  
DEVICES  
UF: Boomerang corers  
Coring devices  
Free-fall corers  
BT: Sediment samplers  
NT: Gravity corers  
Piston corers  
Vibratory corers  
RT: Cores  
Coring  
Drilling equipment  
Penetrometers

**Cores**

UF: Core samples  
BT: Sediment samples  
RT: Boreholes  
Core analysis  
Core handling  
Core orientation  
Core recovery  
Corers  
Coring

**Coring**

SN: Bottom sampling and core studies  
UF: Core sampling  
BT: Sediment sampling  
RT: Core handling  
Core recovery  
Corers  
Cores  
Drilling  
Underwater exploration

Coring devices

USE: **Corers**

**Coriolis acceleration**

BT: Acceleration  
RT: Coriolis force  
Coriolis parameters

**Coriolis force**

BT: Forces (mechanics)  
RT: Acceleration  
Atmospheric circulation  
Coriolis acceleration  
Coriolis parameters  
Geostrophic equilibrium  
Geostrophic flow  
Hydrostatic equation  
Rossby number  
Rotary currents  
Vorticity  
Water circulation

**Coriolis parameters**

BT: Parameters  
RT: Absolute vorticity  
Beta-plane  
Beta spirals  
Coriolis acceleration  
Coriolis force  
Ekman spiral  
Planetary vorticity  
Rossby parameter  
Stream functions

**Corrections**

NT: Gravity corrections  
RT: Errors

**Correlation**

NT: Geological correlation  
RT: Correlation analysis

**Correlation analysis**

UF: Correlation functions  
BT: Statistical analysis  
NT: Autocorrelation  
Cross correlation  
RT: Correlation  
Numerical taxonomy  
Regression analysis  
Time series analysis  
Variance analysis

Correlation functions

USE: **Correlation analysis**

Correspondence (letters)

USE: **Documents**

**Corrosion**

UF: Cavitation erosion  
Crevice corrosion  
Pitting  
Rust  
BT: Chemical reactions  
NT: Cracking (corrosion)  
Stress corrosion  
RT: Antioxidants  
Cavitation

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- Chemical degradation  
Corrosion control  
Deterioration  
Electrochemistry  
Electrolysis  
Fatigue (materials)  
Oxidation  
Splash zone  
Weathering
- Corrosion control**  
UF: Anticorrosion material  
Corrosion inhibition  
Corrosion prevention  
Corrosion protection  
BT: Control  
NT: Cathodic protection  
RT: Antioxidants  
Coating processes  
Corrosion  
Maintenance and repair  
Shipyards  
Stainless steel
- Corrosion cracking  
USE: **Cracking (corrosion)**
- Corrosion inhibition  
USE: **Corrosion control**
- Corrosion prevention  
USE: **Corrosion control**
- Corrosion protection  
USE: **Corrosion control**
- Cosine collectors**  
BT: Light measuring instruments  
RT: Irradiance
- Cosmic dust**  
UF: Dust (cosmic)  
BT: Dust  
Extraterrestrial material  
RT: Eolian dust  
Sediments
- Cosmic radiation**  
UF: Cosmic rays  
BT: Ionizing radiation
- Cosmic rays  
USE: **Cosmic radiation**
- Cosmic spherules**  
UF: Magnetic spherules  
BT: Extraterrestrial material  
RT: Magnetite
- Cosmopolite species**  
BT: Species  
RT: Biogeography  
Geographical distribution
- Cost-benefit analysis**  
UF: Cost benefit analysis  
Cost effective analysis
- Cost effectiveness analysis  
BT: Analysis  
RT: Cost analysis  
Economic benefits
- Cost analysis**  
SN: Study of costs related to technical and financial operations in aquaculture, commercial fishing, fishing industry, marketing, trade, etc.  
BT: Analysis  
RT: Comparative studies  
Cost-benefit analysis  
Costs  
Economic analysis  
Economic feasibility  
Market research  
Pricing
- Cost benefit analysis  
USE: **Cost-benefit analysis**
- Cost effective analysis  
USE: **Cost-benefit analysis**
- Cost effectiveness analysis  
USE: **Cost-benefit analysis**
- Costs**  
UF: Expenses  
Prices  
NT: Labour costs  
Operational costs  
Production cost  
RT: Cost analysis  
Pricing  
Purchasing
- Cotidal charts**  
BT: Tidal charts  
RT: Cotidal lines  
Tidal propagation
- Cotidal lines**  
BT: Isopleths  
RT: Amphidromic systems  
Cotidal charts  
High tide  
Tidal range
- Couette flow**  
BT: Laminar flow  
RT: Shear stress
- Countercurrents**  
BT: Water currents  
NT: Coastal countercurrents  
Equatorial countercurrents  
RT: Ocean currents
- Counters**  
SN: Automatic devices for biological and physical counting  
NT: Bacterial counters  
Cell counters  
Egg counters
- Fish counters  
Geiger counters  
Particle counters
- Countries**  
UF: States (political)  
NT: Coastal states  
Developed countries  
Developing countries  
Landlocked states  
RT: Governments
- Coupled bodies**  
RT: Hydrodynamics
- Coupling (joining components)  
USE: **Connecting**
- Couplings (components)  
USE: **Connectors**
- Courtship**  
RT: Display behaviour  
Reproductive behaviour
- Crab culture**  
SN: Before 1982 search  
CRUSTACEAN CULTURE  
UF: Brackishwater crab culture  
Freshwater crab culture  
Marine crab culture  
BT: Crustacean culture  
RT: Polyculture  
Pond culture
- Crab fisheries**  
UF: Dungeness crab fisheries  
Edible crab fisheries  
King crab fisheries  
Market crab fisheries  
Snow crab fisheries  
Tanner crab fisheries  
BT: Crustacean fisheries  
RT: Trap fishing
- Crack propagation**  
RT: Cracks  
Deterioration
- Cracking (corrosion)**  
UF: Corrosion cracking  
BT: Corrosion  
RT: Cracks  
Embrittlement
- Cracks**  
BT: Defects  
RT: Crack propagation  
Cracking (corrosion)  
Fractures
- Crane barges**  
BT: Barges  
RT: Cranes  
Support ships

**Cranes**

UF: Derricks  
Hoists  
BT: Lifting tackle  
RT: Cargo handling  
Crane barges

**Cratons**

RT: Continental crust  
Continental margins  
Continents  
Platforms (geology)

**Crawfish culture**

USE: **Crayfish culture**

**Crawlers**

USE: **Seabed vehicles**

**Crayfish culture**

SN: Before 1982 search  
CRUSTACEAN CULTURE  
UF: Astaciculture  
Crawfish culture  
Crayfish farming  
BT: Crustacean culture  
RT: Pond culture  
Rice field aquaculture

**Crayfish farming**

USE: **Crayfish culture**

**Crayfish fisheries**

USE: **Lobster fisheries**

**Credit management**

USE: **Financial management**

**Creeks**

SN: Creek can refer to a stream or minor tributary of a river; a channel in a coastal marsh; a channel in an estuary or a tidal inlet. Use relevant preferred term either Rivers OR Coastal inlets

USE: **Coastal inlets**

**Rivers**

**Creel census**

USE: **Sport fishing statistics**

**Creep**

UF: Solifluction  
RT: Deformation  
Landslides  
Mass movement  
Slides  
Slope stability  
Slumping  
Soil mechanics

**Cretaceous**

SN: Before 1982 search  
CRETACEOUS PERIOD  
BT: Mesozoic

**Crevice corrosion**

USE: **Corrosion**

**Crew**

BT: Personnel

**Cristobalite**

BT: Oxide minerals  
RT: Silica

**Critical flow**

BT: Fluid flow

**Critical path method**

BT: Operations research  
RT: Control charts  
Numerical analysis  
PERT  
Prediction

**Croaker fisheries**

USE: **Percoid fisheries**

**Crocodile farming**

USE: **Reptile culture**

**Cross breeding**

USE: **Hybrid culture**

**Cross correlation**

BT: Correlation analysis  
RT: Autocorrelation  
Convolution

**Cross pollination**

USE: **Pollination**

**Crowding**

USE: **Stocking density**

**Crude oil**

BT: Petroleum  
RT: Natural gas  
Oil  
Oil production  
Oil recovery

**Crude oil production**

USE: **Oil production**

**Crude oil treating**

USE: **Oil treating**

**Cruelty to animals**

USE: **Animal welfare**

**Cruise programmes**

BT: Programmes  
RT: Cruises  
Research programmes  
Research vessels

**Cruise reports**

SN: Preliminary report on results obtained during a cruise by one research vessel  
BT: Data reports

RT: Cruises

Expedition reports  
Track charts

**Cruise stations**

UF: Anchor stations  
Expedition stations  
BT: Oceanographic stations  
RT: Cruises  
Track charts

**Cruises**

SN: Use only for surveys involving one vessel  
UF: Expeditions (one vessel)  
BT: Expeditions  
RT: Cruise programmes  
Cruise reports  
Cruise stations  
Multiship expeditions  
Surveys  
Track charts

**Crust (earth)**

USE: **Earth crust**

**Crust (ocean)**

USE: **Oceanic crust**

**Crustacean culture**

UF: Copepod culture  
BT: Shellfish culture  
NT: Brine shrimp culture  
Crab culture  
Crayfish culture  
Lobster culture  
Prawn culture  
Shrimp culture  
RT: Aquatic crustaceans  
Brackishwater crustaceans  
Cage culture  
Crustacean larvae  
Freshwater crustaceans  
Marine crustaceans  
Mass culture  
Monoculture  
Pond culture  
Raceway culture

**Crustacean fisheries**

BT: Shellfish fisheries  
NT: Crab fisheries  
Krill fisheries  
Lobster fisheries  
Shrimp fisheries  
Squat lobster fisheries  
RT: Aquatic crustaceans  
Brackishwater crustaceans  
Coastal fisheries  
Demersal fisheries  
Freshwater crustaceans  
Marine crustaceans  
River fisheries

**Crustacean larvae**

BT: Invertebrate larvae  
NT: Megalops

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- Nauplii  
Phyllosomae  
Zoeae  
RT: Crustacean culture  
Freshwater crustaceans  
Marine crustaceans
- Crustaceans (aquatic)  
USE: **Aquatic crustaceans**
- Crustaceans (brackishwater)  
USE: **Brackishwater crustaceans**
- Crustaceans (freshwater)  
USE: **Freshwater crustaceans**
- Crustaceans (marine)  
USE: **Marine crustaceans**
- Crustal accretion**  
BT: Accretion  
RT: Diverging plate boundaries  
Oceanic crust  
Plate divergence
- Crustal adjustment**  
NT: Isostasy  
RT: Epeirogeny  
Plate tectonics
- Crustal shortening**  
BT: Diastrophism  
RT: Earth crust  
Epeirogeny
- Crustal structure**  
RT: Earth crust
- Crustal thickness**  
BT: Thickness  
RT: Earth crust
- Crusts (rocks)  
USE: **Concretions**
- Cryobiology**  
SN: Low temperature biology  
BT: Biology  
RT: Cold resistance  
Cryoplankton  
Physiology  
Temperature tolerance
- Cryoplankton**  
SN: Ice- and snow-inhabiting organisms  
BT: Plankton  
RT: Cryobiology
- Cryopreservation  
USE: **Freezing storage**
- Cryoprotectants  
USE: **Freezing storage**
- Cryosphere**  
BT: Hydrosphere
- RT: Glaciers  
Ice  
Ice caps  
Ice volume  
Permafrost
- Cryptic species**  
SN: Distinct species that are erroneously classified (and hidden) under one species name  
BT: Species  
RT: Biodiversity  
Evolution  
Nature conservation  
Taxonomy
- Crystallization**  
BT: Chemical precipitation  
RT: Solutes  
Solvents  
Supersaturation
- CT scan  
USE: **Tomography**
- CTD measurements  
USE: **CTD observations**
- CTD observations**  
UF: Conductivity-temperature-depth observations  
CTD measurements  
BT: Hydrographic data  
RT: CTD profilers  
Finestructure  
STD observations
- CTD probes  
USE: **CTD profilers**
- CTD profilers**  
UF: Conductivity-temperature-depth profilers  
Conductivity-temperature depth profilers  
CTD probes  
CTD sensors  
BT: Profilers  
RT: Conductivity sensors  
CTD observations  
Electrical conductivity  
Finestructure  
Salinity measuring equipment  
Salinity profiles  
STD profilers  
Temperature profiles  
Thermometers  
Vertical profiles
- CTD sensors  
USE: **CTD profilers**
- Ctenophore blooms**  
BT: Blooms
- Culch  
USE: **Cultch**
- Culling**  
SN: Removal or killing of a certain number of animals to maintain a steady population  
BT: Population control  
RT: Animal welfare  
Bioselection  
Population number  
Resource management
- Cultch**  
SN: Any substrata placed in the environment to attract the attachment of oyster larvae  
UF: Culch  
Cultch material  
BT: Artificial substrata  
RT: Larval settlement  
Oyster culture  
Spat  
Substrate preferences
- Cultch material  
USE: **Cultch**
- Culture effects**  
SN: Effects of aquaculture practice on the ecosystem  
BT: Environmental effects  
RT: Aquaculture  
Biological pollutants
- Culture media**  
SN: Fluid, solid and nutritive media for culture of tissue and organisms  
RT: Cell culture  
Laboratory culture  
Tissue culture
- Culture tanks**  
BT: Tanks  
RT: Algal culture  
Aquaculture equipment  
Batch culture  
Continuous culture  
Hatcheries  
Laboratory culture  
Rearing  
Recirculating systems
- Cultured fish  
USE: **Cultured organisms**
- Cultured food  
USE: **Cultured organisms**
- Cultured organisms**  
UF: Cultured fish  
Cultured food  
Cultured species  
BT: Aquatic organisms  
RT: Aquaculture  
Aquaculture products  
Aquaponics  
Domestic species



Hydroponics  
Microbiological culture  
Phytoplankton culture  
Zooplankton culture

Cultured species  
USE: **Cultured organisms**

**Cultures**

SN: Use of a more specific term is recommended  
NT: Algal culture  
Coral farming  
Fish culture  
Frog culture  
Plant culture  
Reptile culture  
Shellfish culture  
Sponge culture  
Worm culture  
Zooplankton culture  
RT: Aquaculture  
Aquaculture systems  
Aquaculture techniques  
Experimental culture  
Laboratory culture

Cumulus  
USE: **Clouds**

Cup anemometers  
USE: **Anemometers**

**Cured products**

UF: Dried salted products  
Marinated products  
Smoked products  
BT: Processed fishery products  
RT: Curing  
Dried products

**Curing**

SN: To preserve by salting, drying, smoking, fermentation or a combination of these methods  
UF: Salting  
Smoking  
BT: Processing fishery products  
RT: Cured products  
Dressing  
Drying

**Curium**

BT: Actinides  
Transuranic elements  
RT: Curium isotopes

**Curium isotopes**

BT: Isotopes  
RT: Curium

**Curl (vectors)**

BT: Vectors  
NT: Wind stress curl  
RT: Vorticity

Curl of wind stress  
USE: **Wind stress curl**

**Current charts**

UF: Tidal current charts  
BT: Hydrographic charts  
RT: Current direction  
Current roses  
Current vectors  
Current velocity  
Streamlines  
Tidal charts  
Tide tables  
Water currents

**Current data**

SN: Data collections obtained by any method of current measurement  
UF: Water current data  
BT: Hydrographic data  
RT: Current direction  
Current measurement  
Current observations  
Current velocity  
Oceanographic data  
Water currents

**Current density**

BT: Density  
RT: Electric currents

**Current direction**

RT: Current charts  
Current data  
Current roses  
Streamlines  
Water currents

**Current ellipses**

BT: Hodographs  
RT: Rotary currents

**Current forces**

BT: Loads (forces)  
RT: Current velocity  
Hydrodynamics  
Vortex shedding  
Water currents

**Current marks**

UF: Flute casts  
Sole marks  
BT: Bedding structures  
NT: Scour marks

**Current meandering**

UF: Meandering (currents)  
BT: Meandering  
RT: Current rings  
Fluid motion  
Mesoscale eddies  
Mesoscale features  
Water currents

Current meanders  
USE: **Current rings**

**Current measurement**

SN: Methods for measuring speed and direction of water currents  
UF: Current measuring  
Current measuring methods  
Velocity measurement (water)  
BT: Flow measurement  
NT: Eulerian current measurement  
Lagrangian current measurement  
RT: Current data  
Current measuring equipment  
Current observations  
Current velocity  
Photogrammetry  
Water currents

Current measuring  
USE: **Current measurement**

**Current measuring equipment**

BT: Flow measuring equipment  
NT: Current meters  
Current sensors  
Drifters  
RT: Current measurement  
Drogues  
GEK  
Water currents

Current measuring methods  
USE: **Current measurement**

**Current meter arrays**

BT: Arrays  
RT: Current meters

**Current meter data**

BT: Hydrographic data  
RT: Current meters

**Current meter moorings**

BT: Mooring systems  
RT: Current meters

Current meter vanes  
USE: **Vanes**

**Current meters**

SN: For measurement of water speed and direction only  
BT: Current measuring equipment  
NT: Acoustic current meters  
RT: Current meter arrays  
Current meter data  
Current meter moorings  
Current observations  
Current sensors  
Flowmeters  
Water currents

**Current observations**

UF: Water current observations  
RT: Current data  
Current measurement  
Current meters  
Hydrographic data

**Current power**

SN: Power derived from water currents  
 UF: Ocean current energy conversion  
 RT: Power from the sea  
 Water currents

**Current prediction**

BT: Prediction  
 RT: Water currents

**Current profiles**

UF: Current speed profiles  
 BT: Velocity profiles

**Current reversal**

RT: Monsoon reversal  
 Water currents

**Current rings**

SN: Oceanic eddies of order 10 kms diameter  
 UF: Anticyclonic eddies  
 Anticyclonic rings  
 Current meanders  
 Cyclonic eddies  
 Cyclonic rings  
 Gulf stream rings  
 Meanders (current)  
 BT: Oceanic eddies  
 RT: Current meandering  
 Ocean currents  
 Vortices

**Current roses**

BT: Map graphics  
 RT: Current charts  
 Current direction  
 Current velocity  
 Water currents  
 Wind roses

**Current scouring**

UF: Tidal scour  
 BT: Scouring  
 RT: Bed forms  
 Bottom currents  
 Bottom erosion  
 Flow around objects  
 Scour and fill  
 Scour hollows  
 Scour marks  
 Water currents  
 Wave scouring

**Current sensors**

BT: Current measuring equipment  
 Sensors  
 RT: Current meters  
 Flowmeters

**Current shear**

BT: Shear  
 RT: Wind shear

**Current spectra**

BT: Spectra

Current speed

USE: **Current velocity**

Current speed profiles

USE: **Current profiles**

**Current vectors**

BT: Vectors  
 RT: Current charts  
 Current velocity  
 Streamlines  
 Water currents

**Current velocity**

UF: Current speed  
 BT: Velocity  
 NT: Stream flow rate  
 RT: Current charts  
 Current data  
 Current forces  
 Current measurement  
 Current roses  
 Current vectors  
 Electric potential  
 Flowmeters  
 Tide tables  
 Velocity microstructure  
 Velocity sections  
 Volume transport  
 Westward intensification

Currents (electric)

USE: **Electric currents**

Currents (water)

USE: **Water currents**

**Curricula**

SN: Before 1982 search also EDUCATION  
 UF: Syllabuses  
 Training programmes  
 RT: Education

Curves (graphs)

USE: **Graphs**

Cusplate forelands

USE: **Headlands**

Customary fishing rights

USE: **Fishing rights**

**Cuticles**

SN: A layer covering and secreted by the epidermis of plants and many invertebrates  
 BT: Exoskeleton  
 RT: Chitin  
 Transpiration

**Cutting**

NT: Cutting underwater  
 RT: Welding

**Cutting underwater**

BT: Cutting  
 Working underwater  
 RT: Welding underwater

**Cuttlefish culture**

BT: Cephalopod culture  
 RT: Cephalopod fisheries

Cuttlefish fisheries

USE: **Cephalopod fisheries**

**Cyanides**

BT: Chemical compounds  
 RT: Carbon compounds  
 Nitrogen compounds  
 Salts

**Cycles**

SN: Use of a more specific term is recommended  
 UF: Rhythms  
 NT: Chemical cycles  
 Hydrologic cycle  
 Life cycle  
 Tidal cycles  
 Trophodynamic cycle  
 RT: Energy budget  
 Food webs  
 Moon phases

**Cyclic loading**

BT: Loads (forces)  
 RT: Dynamic loads  
 Fatigue (materials)  
 Ocean loading  
 Periodic variations  
 Wave-induced loading  
 Wave-seabed interaction

**Cyclogenesis**

RT: Cyclones

**Cyclomorphosis**

SN: Seasonal change in morphology displayed by some planktonic animals  
 BT: Biopolymorphism  
 RT: Defence mechanisms

**Cyclones**

SN: Use of a more specific term is recommended  
 UF: Depressions (meteorology)  
 Midlatitude cyclones  
 BT: Low pressure systems  
 RT: Anticyclones  
 Cyclogenesis  
 Hurricanes  
 Polar fronts  
 Winds

Cyclones (tropical)

USE: **Hurricanes**

## ASFA THESAURUS

Cyclonic eddies  
USE: **Current rings**

**Cyclonic motion**  
BT: Motion  
RT: Anticyclonic motion  
Rotation

Cyclonic rings  
USE: **Current rings**

**Cylinders**  
RT: Cylindrical structures  
Tubing

Cylindrical bodies  
USE: **Cylindrical structures**

**Cylindrical structures**  
SN: Before 1986 search also  
CYLINDRICAL BODIES  
UF: Cylindrical bodies  
BT: Structures  
RT: Cylinders

**Cysteine**  
BT: Amino acids

**Cystine**  
BT: Amino acids

**Cysts**  
SN: Resistant resting stages  
formed by different organisms,  
as a response to adverse  
environmental conditions  
UF: Dormant stages  
RT: Encystment

**Cytochemistry**  
BT: Biochemistry  
RT: Cytochromes  
Cytology  
Cytotoxicity

**Cytochromes**  
BT: Coenzymes  
RT: Cytochemistry  
Oxidation  
Proteins

**Cytogenetics**  
SN: Before 1995 search  
GENETICS  
BT: Genetics  
RT: Flow cytometry

Cytokinins  
USE: **Phytohormones**

**Cytology**  
UF: Cell biology  
BT: Biology  
NT: Karyology  
RT: Cell constituents  
Cell differentiation  
Cell division

Cell membranes  
Cell morphology  
Cell organelles  
Cells  
Cytochemistry  
Cytoplasm  
Cytotoxicity  
Fixatives  
Flow cytometry  
Histology  
Microscopy

**Cytoplasm**  
UF: Bioplasm  
Protoplasm  
BT: Cell constituents  
RT: Cell inclusions  
Cytology  
Golgi apparatus  
Plastids  
Protoplasts  
Ribosomes  
Yolk

Cytoplasmic membranes  
USE: **Cell membranes**

**Cytotoxicity**  
BT: Toxicity  
RT: Cytochemistry  
Cytology

**Daily**  
BT: Periodicity  
RT: Diurnal variations

Daily variation  
USE: **Diurnal variations**

**Damage**  
NT: Biological damage  
Flood damage  
RT: Accidents  
Avalanches  
Defects  
Deterioration  
Failures  
Fire  
Hazards  
Maintenance and repair

Damage (biological)  
USE: **Biological damage**

**Damage assessment**  
SN: Evaluation of damage or loss  
caused by accident or natural  
event  
RT: Accidents  
Disasters  
Floods  
Hurricanes  
Tsunamis

**Damping**  
SN: To artificially reduce  
amplitude or physical processes

UF: Suppressing  
NT: Evaporation reduction  
Noise reduction  
Wave damping  
RT: Attenuation  
Control  
Suppressors  
Vibration

Damping (water waves)  
USE: **Wave damping**

**Dams**  
SN: Fixed structures for the  
containment etc. of water in  
valleys  
BT: Barrages  
RT: Backwaters  
Fishways  
Flood control  
Grouting  
Impoundments  
Pond construction  
Ponds  
Spillways  
Water reservoirs  
Weirs

Danger  
USE: **Hazards**

Dangerous materials  
USE: **Hazardous materials**

**Dangerous organisms**  
SN: Harmful to persons  
UF: Harmful microalgae  
BT: Aquatic organisms  
RT: Biological damage  
Diving hazards

Danish seines  
USE: **Boat seines**

**Data**  
SN: Use of a more specific term is  
recommended  
NT: Acoustic data  
Biological data  
Experimental data  
Fishery data  
Geological data  
Geophysical data  
Geotechnical data  
Hydrographic data  
Limnological data  
Meteorological data  
Oceanographic data  
Pollution data  
Temperature data  
Wave data  
RT: Data acquisition  
Data collections  
Data loggers  
Data processing  
Data reports  
Data storage

**Data acquisition**

BT: Acquisition  
 RT: Data  
     Data loggers  
     Data processing  
     Data storage  
     Observers  
     Remote sensing

Data analysis

USE: **Data processing**

Data banks

USE: **Data collections**

**Data buoys**

UF: Meteorological buoys  
     Oceanographic buoys  
     Rafts (instrument carriers)  
 BT: Buoys  
 NT: Drifting data buoys  
     Wave buoys  
 RT: Lagrangian current  
     measurement  
     Ocean stations  
     Oceanographic equipment  
     Recording equipment  
     Weather ships

Data catalogues

USE: **Inventories**

Data centres

USE: **Information centres**

**Data collections**

UF: Data banks  
     Databases  
 BT: Collections  
 RT: Census  
     Data  
     Data processing  
     Data storage  
     Documentation  
     Inventories  
     Libraries  
     Report literature  
     Surveys

**Data converters**

SN: Analog/digital converters  
 RT: Analog records  
     Digital records

Data handling

USE: **Data processing**

**Data loggers**

RT: Data  
     Data acquisition  
     Recording equipment

Data presentation (graphics)

USE: **Graphics**

**Data processing**

UF: Automated data processing  
     Batch processing  
     Data analysis  
     Data handling  
 NT: Data reduction  
     Seismic data processing  
     Signal processing  
 RT: Automation  
     Computer programs  
     Computers  
     Data  
     Data acquisition  
     Data collections  
     Data storage  
     Observers

**Data reduction**

BT: Data processing  
 RT: Reference levels  
     Seismic data processing  
     Spectral analysis

**Data reports**

BT: Report literature  
 NT: Cruise reports  
     Station lists  
 RT: Data  
     Ocean stations

Data retrieval

USE: **Information retrieval**

**Data storage**

BT: Storage  
 RT: Computers  
     Data  
     Data acquisition  
     Data collections  
     Data processing

**Data transmission**

NT: Facsimile transmission  
 RT: Telemetry

Databases

USE: **Data collections**

Dating (biological)

USE: **Age determination**

Dating (earth sciences)

USE: **Geochronometry**

**Datum levels**

BT: Reference levels  
 NT: Chart datum  
     Tidal datum  
 RT: Bench marks  
     Geodesy  
     Levelling  
     Sea level

**Davits**

BT: Lifting tackle  
 RT: Gear handling

Day length

USE: **Photoperiods**

**Daytime**

RT: Diurnal variations  
     Nighttime

**DDE**

UF: Dichlorodiphenylethylene  
 BT: Chlorinated hydrocarbons

**DDT**

UF:  
     Dichlorodiphenyltrichloroethane  
 BT: Chlorinated hydrocarbons  
 RT: Chemical pollutants  
     Pesticides  
     Toxicants

De-icing

USE: **Deicing**

De-icing equipment

USE: **Deicing equipment**

Dead bodies

USE: **Carcasses**

**Dead reckoning**

BT: Navigation  
 RT: Inertial navigation  
     Ship drift

**Dead water**

RT: Density stratification  
     Interface phenomena  
     Internal wave effects  
     Surface wave-internal wave  
     interactions  
     Water

**Deamination**

BT: Chemical reactions  
 RT: Amination

Death rate

USE: **Mortality**

Debris (geological)

USE: **Debris flow**

Debris (marine)

USE: **Marine debris**

Debris (nuclear)

USE: **Fission products**

Debris (organic)

USE: **Detritus**

Debris (rubbish)

USE: **Litter**

**Debris flow**

UF: Debris (geological)  
     Mudflows  
     Rock falls

BT: Mass gravity transport  
(sediments)  
RT: Melanges  
Olistostromes

**Debubbling**

RT: Bubbles  
Bubbling

**Decalcification**

SN: The process of absorption of  
lime salts from bones  
BT: Biochemical phenomena  
RT: Bones  
Calcification  
Shells

**Decantation**

SN: Decantation of transported  
solid pollutants or suspended  
sediments  
BT: Separation  
RT: Sedimentation  
Sludge treatment  
Waste treatment  
Water pollution treatment  
Water treatment

**Decarboxylation**

BT: Chemical reactions  
RT: Carboxylation

**Decay**

BT: Degradation

**Decca**

BT: Radio navigation  
RT: Navigational tables

**Dechlorination**

RT: Chlorination  
Chlorine  
Disinfection  
Sewage treatment  
Water purification  
Water treatment

**Decision support systems**

SN: Computer-based system that  
assists one in the process of  
making a decision  
BT: Information systems

Deck compression chambers

USE: **Decompression chambers**

**Deck equipment**

UF: Deck machinery  
Handling equipment  
BT: Equipment  
NT: Lifting tackle  
RT: Decks  
Gear handling  
Hydraulic systems  
Oceanographic equipment  
Rigging  
Safety devices

Deck machinery

USE: **Deck equipment**

Deck safety equipment

USE: **Safety devices**

**Decks**

NT: Helidecks  
RT: Deck equipment  
Mobile platforms

**Decommissioning**

SN: To officially stop using (a  
ship, weapon, dam, nuclear  
power plant etc.). To remove  
(something) from service  
RT: Offshore structures  
Oil and gas production  
Power plants  
Surface craft

**Decomposers**

SN: Micro-organisms returning  
nutrients to water by  
biodegradation  
BT: Heterotrophic organisms  
NT: Saprobionts  
RT: Bacteria  
Biodegradation  
Food chains  
Fungi

Decomposition

USE: **Degradation**

**Decompression**

RT: Decompression chambers  
Decompression sickness  
Decompression tables  
Hydrostatic pressure  
Saturation diving

**Decompression chambers**

UF: Compression chambers  
Deck compression chambers  
Hyperbaric chambers  
Pressure chambers  
Transfer chambers  
BT: Diving equipment  
RT: Decompression  
Decompression sickness  
Decompression tables  
Diving bells  
High pressure effects  
Hyperbaric

**Decompression sickness**

SN: Before 1986 search also  
BENDS  
UF: Bends  
BT: Human diseases  
RT: Decompression  
Decompression chambers  
Decompression tables  
Diving physiology  
Nitrogen narcosis

Underwater medicine

**Decompression tables**

UF: Compression tables  
BT: Tables  
RT: Decompression  
Decompression chambers  
Decompression sickness  
Diving equipment

**Deconvolution**

UF: Seismic deconvolution  
BT: Mathematical analysis  
RT: Convolution  
Seismic data processing

Deep-sea bed

USE: **Ocean floor**

**Deep-sea channels**

BT: Seachannels  
Submarine features

**Deep-sea diving**

UF: Dry diving  
BT: Diving  
RT: Breathing mixtures  
One-atmosphere systems  
Submersibles  
Underwater exploration

**Deep-sea drilling**

SN: Drilling operations beyond  
the continental shelf  
BT: Drilling  
Offshore operations  
RT: Deep-sea mining  
Drilling vessels  
Hole re-entry

Deep-sea erosion

USE: **Bottom erosion**

**Deep-sea fans**

UF: Abyssal cones  
Sea fans  
Submarine fans  
BT: Fans  
Submarine features  
RT: Alluvial fans  
Seachannels  
Submarine canyons  
Turbidites

**Deep-sea fisheries**

BT: Marine fisheries

**Deep-sea furrows**

UF: Furrows (deep-sea)  
BT: Submarine features  
RT: Bottom erosion  
Oceanic trenches

Deep-sea lobster fisheries

USE: **Lobster fisheries**

**Deep-sea mining**

UF: Deep ocean mining  
 BT: Mining  
 Offshore operations  
 RT: Deep-sea drilling  
 Mining vessels  
 Seabed deposits  
 Subsurface deposits

Deep-sea terraces  
 USE: **Terraces**

Deep-sea thermometers  
 USE: **Thermometers**

**Deep-sea tide gauges**  
 BT: Tide gauges

**Deep-water masses**  
 UF: Bottom water masses  
 BT: Water masses  
 RT: Bottom water

**Deep-water terminals**  
 BT: Tanker terminals  
 RT: Offshore docking

**Deep-water waves**  
 BT: Water waves

Deep adjacent seas  
 USE: **Marginal seas**

**Deep currents**  
 SN: Midwater currents in deep ocean  
 BT: Subsurface currents  
 RT: Bottom currents  
 Deep water  
 Water depth

**Deep layer**  
 UF: Deep layers (water column)  
 BT: Water column  
 RT: Benthic boundary layer  
 Bottom mixed layer  
 Hypolimnion

Deep layers (lakes)  
 USE: **Hypolimnion**

Deep layers (water column)  
 USE: **Deep layer**

Deep ocean mining  
 USE: **Deep-sea mining**

Deep scattering layers  
 USE: **Scattering layers**

Deep sea  
 USE: **Deep water**

Deep tow  
 USE: **Towed vehicles**

**Deep water**

UF: Deep sea  
 BT: Water  
 RT: Aphotic zone  
 Bathymetry  
 Deep currents  
 Deep water formation  
 Hypolimnion  
 Shallow water  
 Water depth

**Deep water formation**  
 RT: Deep water

**Defaecation**  
 UF: Defecation  
 BT: Excretion  
 RT: Faecal pellets

Defecation  
 USE: **Defaecation**

**Defects**  
 SN: Use for faults of construction or results of damage or deterioration  
 UF: Faults (defects)  
 Flaws  
 NT: Cracks  
 Fractures  
 Leaks  
 Spalling  
 RT: Damage  
 Deterioration  
 Failures

Defence  
 USE: **Security**

**Defence craft**  
 SN: Vessels designed for military or security purposes  
 UF: Defense craft  
 Naval craft  
 Warships  
 RT: Military oceanography  
 Military operations  
 Naval bases  
 Protection vessels  
 Security  
 Surface craft  
 Surveillance and enforcement  
 Underwater vehicles

**Defence mechanisms**  
 SN: Before 1986 search also DEFENSE MECHANISMS  
 UF: Defense mechanisms  
 Defensive mechanisms  
 Defensive secretions  
 NT: Phagocytosis  
 RT: Allelochemicals  
 Antibodies  
 Bioelectricity  
 Camouflage  
 Cyclomorphosis  
 Encystment

Granulomas  
 Herbicide resistance  
 Immunity  
 Immunocontraception  
 Insecticide resistance  
 Mimicry  
 Pesticide resistance  
 Protective behaviour  
 Resistance mechanisms

Defense craft  
 USE: **Defence craft**

Defense mechanisms  
 USE: **Defence mechanisms**

Defensive mechanisms  
 USE: **Defence mechanisms**

Defensive secretions  
 USE: **Defence mechanisms**

**Deficiency diseases**  
 UF: Deficiency syndromes  
 BT: Diseases  
 RT: Dietary deficiencies  
 Nutrition disorders  
 Nutritional requirements

Deficiency syndromes  
 USE: **Deficiency diseases**

Definitions  
 USE: **Terminology**

**Deflection**  
 NT: Catenary  
 Plumbline deflection

**Deflocculation**  
 UF: Peptization  
 RT: Dispersion  
 Flocculation

**Deforestation**  
 SN: Removal of trees from land without the intention of reforesting it  
 RT: Forest industry  
 Forests

**Deformation**  
 UF: Bending  
 Buckling  
 Distortion  
 BT: Mechanical properties  
 NT: Rock deformation  
 Strain  
 RT: Boudinage  
 Bulk modulus  
 Collapse strength  
 Compression  
 Creep  
 Elasticity  
 Flexibility  
 Melanges  
 Pipe buckling

Plastic flow  
Plasticity  
Rheology  
Shape  
Stress-strain relations  
Tensile strength  
Yield point

Defrosting  
USE: **Thawing**

Degassification  
USE: **Degassing**

**Degassing**  
UF: Degassification  
RT: Desorption  
Earth atmosphere  
Earth mantle

**Degeneration**  
UF: Evolutionary retrogression  
BT: Biological phenomena  
RT: Biodegradation  
Evolution  
Mutations  
Regeneration

**Deglaciation**  
RT: Climatic changes  
Emergent shorelines  
Glaciation  
Interglacial periods  
Transgressions

**Degradation**  
UF: Decomposition  
BT: Chemical reactions  
NT: Biodegradation  
Chemical degradation  
Decay  
Environmental degradation  
Pyrolysis  
Thermal decomposition  
RT: Autolysis  
Composting  
Deterioration  
Discolouration  
Fate  
Fouling  
Humus  
Leaching  
Oxygen depletion  
Weathering

Dehydrated products  
USE: **Dried products**

**Dehydration**  
BT: Chemical reactions  
RT: Desiccation  
Dewatering  
Drying  
Evaporation  
Hydration  
Separation  
Transpiration

Water content

**Dehydrogenases**  
BT: Enzymes

**Deicing**  
SN: Preventing and removing  
rime and glaze from decks,  
superstructures, equipment, etc.  
For melting of ice/snow on  
land and frozen soil, use ICE  
MELTING. For thawing of  
frozen fishery products use  
THAWING. Before 1996 search  
also DE-ICING  
UF: De-icing  
RT: Antifreezes  
Deicing equipment  
Ice melting  
Ice prevention  
Icing  
Thawing

**Deicing equipment**  
UF: De-icing equipment  
BT: Equipment  
RT: Deicing  
Ice prevention  
Icing

Delta structures  
USE: **Deltaic features**

**Deltaic deposits**  
RT: Fluvial sedimentation  
Foreset beds

**Deltaic features**  
UF: Delta structures  
NT: Foreset beds  
RT: Deltas

**Deltaic sedimentation**  
BT: Sedimentation  
RT: Deltas  
Foreset beds  
Sedimentary environments

**Deltas**  
BT: Coastal landforms  
RT: Alluvial deposits  
Brackishwater environment  
Coastal erosion  
Coasts  
Deltaic features  
Deltaic sedimentation  
Distributaries  
Flood plains  
Fluvial features  
Fluvial morphology  
Progradation  
Rivers  
Swamps  
Wetlands

**Demersal fish**  
SN: Bottom feeding fish

UF: Benthic fish  
Ground fish  
Groundfish  
BT: Fish  
RT: Benthos  
Demersal fisheries

**Demersal fisheries**  
BT: Fisheries  
RT: Bottom trawling  
Crustacean fisheries  
Demersal fish  
Finfish fisheries  
Lagoon fisheries  
Lake fisheries  
Longlining  
Marine fish  
Marine fisheries

**Demineralization**  
UF: Salts extraction  
BT: Separation processes  
RT: Distillation  
Ion exchange

**Demography**  
SN: Study of birth rates, death  
rates, age distributions, and  
size of human populations. For  
studies on animal populations,  
use Population structure or  
Population dynamics  
RT: Sociological aspects

Denaturation (proteins)  
USE: **Protein denaturation**

Dendrites  
USE: **Neurons**

**Denitrification**  
SN: Before 1982 search  
NITROGEN CYCLE  
BT: Chemical reactions  
RT: Nitrification  
Nitrogen cycle

**Dense water**  
BT: Sea water

Densimeters  
USE: **Densitometers**

**Densitometers**  
UF: Densimeters  
BT: Density measuring equipment

**Density**  
SN: Before 1982 search also  
DENSITY (PHYSICAL)  
UF: Density (physical)  
BT: Physical properties  
NT: Current density  
Sediment density  
Water density  
RT: Buoyancy  
Density measurement

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Density measuring equipment  
Diffusion  
Gravimetric techniques  
Specific gravity  
Wet weight

Density-dependent factors  
USE: **Biotic factors**

Density-independent factors  
USE: **Abiotic factors**

Density (physical)  
USE: **Density**

Density (population)  
USE: **Population density**

Density (stocking)  
USE: **Stocking density**

Density (water)  
USE: **Water density**

Density (wave action)  
USE: **Wave action**

**Density charts**  
SN: Charts showing distribution of water density  
BT: Hydrographic charts  
RT: Density sections  
Isopycnics  
Water density

Density currents  
USE: **Density flow**

**Density dependence**  
UF: Density dependent effects  
RT: Biological production  
Biotic factors  
Population density  
Population functions  
Stocking (organisms)  
Stocking density

Density dependent effects  
USE: **Density dependence**

Density dependent factor  
USE: **Population density**

**Density field**  
BT: Fields  
RT: Geostrophic flow  
Geostrophic method  
Water density

**Density flow**  
SN: Before 1982 search  
**TURBIDITY CURRENTS**  
UF: Density currents  
Gravity induced flow  
BT: Fluid flow  
RT: Bottom currents  
Stratified flow

Turbidity currents  
Water currents

**Density fronts**  
BT: Oceanic fronts  
RT: Isopycnics  
Pycnocline  
Tidal fronts  
Water density

**Density gradients**  
SN: Used only for density gradients in water  
BT: Gradients  
RT: Density profiles  
Density stratification  
Pycnocline  
Water density

**Density interfaces**  
BT: Interfaces  
RT: Density stratification  
Water density

Density layer  
USE: **Pycnocline**

**Density measurement**  
UF: Hydrometry  
Specific gravity measurement  
BT: Measurement  
RT: Density  
Density measuring equipment  
Hydrometers  
Water density

**Density measuring equipment**  
BT: Measuring devices  
NT: Densitometers  
RT: Density  
Density measurement  
Hydrometers

**Density profiles**  
BT: Vertical profiles  
RT: Density gradients  
Density sections  
Density stratification  
Pycnocline  
Water density

**Density sections**  
BT: Hydrographic sections  
RT: Density charts  
Density profiles  
Water density

**Density stratification**  
UF: Stratification (density)  
BT: Stratification  
RT: Buoyant jets  
Dead water  
Density gradients  
Density interfaces  
Density profiles  
Geostrophic flow  
Monin-Obukhov length

Pycnocline  
Salinity stratification  
Sound channels  
Water density

**Denudation**  
SN: Combined effect of erosional processes and transportation of eroded material  
RT: Erosion

**Deoxygenation**  
RT: Oxygen  
Oxygen demand  
Oxygen depletion  
Oxygenation  
Water quality

Deoxyribonucleic acid  
USE: **DNA**

Dependent species  
USE: **Associated species**

**Depleted stocks**  
SN: A stock (or population) suffering from recruitment overfishing  
UF: Stock depletion  
BT: Stocks  
RT: Depletion  
Overfishing

**Depletion**  
NT: Oxygen depletion  
Resource depletion  
RT: Abundance  
Conservation  
Depleted stocks  
Reclamation

**Deployment**  
SN: Deployment of materials and equipment including underwater vehicles  
RT: Gear handling  
Launching  
Recovery  
Station keeping

**Depolymerization**  
BT: Chemical reactions  
RT: Polymerization

Deposition (geology)  
USE: **Sedimentation**

**Deposition features**  
RT: Alluvial fans  
Barrier islands  
Beach accretion  
Beach ridges  
Berms  
Break-point bars  
Erosion features  
Fluvial features  
Glacial features



- Nearshore bars  
Sediment drifts  
Spits
- Depositional environments  
USE: **Sedimentary environments**
- Depressions (meteorology)  
USE: **Cyclones**
- Depressors**  
NT: Cable depressors  
RT: Depth control
- Depth**  
BT: Dimensions  
NT: Mixed layer depth  
Sill depth  
Standard depths  
Water depth  
RT: Contours  
Depth control  
Depth measurement  
Height  
Hypsometric curves  
Thickness
- Depth contours  
USE: **Isobaths**
- Depth control**  
BT: Control  
RT: Depressors  
Depth
- Depth distribution  
USE: **Vertical distribution**
- Depth finders  
USE: **Depth recorders**
- Depth finding  
USE: **Echosounding**
- Depth measurement**  
SN: Measurement of depth in water only. Use of a more specific term is recommended  
BT: Measurement  
NT: Bathymetry  
Echosounding  
Instrument depth measurement  
RT: Depth  
Depth recorders  
Sounding lines  
Stereophotography
- Depth recorders**  
UF: Depth finders  
Precision depth recorders  
BT: Recording equipment  
RT: Bathymeters  
Bathythermographs  
Depth measurement  
Echosounders  
Oceanographic equipment  
Water depth
- Depth sounding (water)  
USE: **Bathymetry**
- Depuration  
USE: **Self purification**
- Derived lipids  
USE: **Lipids**
- Dermal denticles  
USE: **Scales**
- Derricks  
USE: **Cranes**
- Desalination**  
SN: Sea water conversion and water desalting  
UF: Desalination processes  
Extraction (salts)  
Sea water conversion  
Seawater conversion  
Water desalting  
BT: Water treatment  
RT: Desalination plants  
Dissolved salts  
Distillation  
Electrodialysis  
Evaporation  
Non-living resources  
Reverse osmosis  
Saline water  
Salinity  
Salts  
Sea water  
Separation  
Water purification
- Desalination plants**  
RT: Aquaculture facilities  
Desalination  
Mineral industry  
Water supply
- Desalination processes  
USE: **Desalination**
- Descriptive physical oceanography  
USE: **Hydrography**
- Deserts**  
BT: Arid environments  
RT: Oases  
Sabkhas
- Desiccation**  
BT: Separation  
RT: Dehydration  
Drying  
Evaporation
- Design**  
SN: Limit to design methods  
UF: Design engineering  
NT: Ship design  
Towed body design
- RT: Engineering  
Engineering drawings  
Specifications  
Structural analysis  
Tolerances (dimensional)
- Design engineering  
USE: **Design**
- Design wave**  
RT: Coastal structures  
Offshore structures  
Surface water waves  
Wave climate  
Wave forces  
Wave forecasting  
Wave height  
Wave statistics
- Desorption**  
BT: Sorption  
RT: Degassing  
Surface properties
- Destratification**  
RT: Stratification  
Water mixing
- Destructive waves**  
BT: Water waves  
RT: Nearshore bars
- Detection**  
NT: Disease detection  
Fish detection  
Iceberg detection  
Pollution detection  
Sonar detection  
Wreck location  
RT: Detectors  
Echo ranging  
Identification  
Inspection  
Locating  
Surveillance and enforcement  
Tracking
- Detectors**  
BT: Equipment  
NT: Acoustic tracking systems  
RT: Alarm systems  
Detection
- Detergents**  
NT: Soaps  
RT: Chemical pollutants  
Domestic wastes  
Surfactants
- Deterioration**  
SN: Gradual decline in quality (of materials). For results of fire and accidents use DAMAGE  
RT: Corrosion  
Crack propagation  
Damage  
Defects

- Degradation  
Embrittlement  
Failures  
Fatigue (materials)  
Maintenance and repair  
Restoration  
Scouring  
Spalling  
Wear
- Detonators**  
BT: Equipment  
RT: Blasting  
Explosives
- Detoxification**  
SN: Removal of poison or poison effects  
RT: Biological poisons  
Hydrolysis  
Oxidation  
Toxicants  
Toxicity  
Toxicology
- Detrital deposits**  
UF: Detrital sediments  
RT: Clastics  
Detritus  
Sediments  
Suspended particulate matter
- Detrital sediments  
USE: **Detrital deposits**
- Detritivores  
USE: **Detritus feeders**
- Detritus**  
UF: Biodeposition  
Debris (organic)  
Organic detritus  
NT: Leaf litter  
RT: Biogenic material  
Biogeochemical cycle  
Detrital deposits  
Detritus feeders  
Filter feeders  
Litter  
Sapropels  
Suspended organic matter  
Suspended particulate matter  
Turbidity
- Detritus feeders**  
UF: Detritivores  
BT: Heterotrophic organisms  
RT: Detritus  
Omnivores  
Saprobionts
- Deuterium**  
SN: Before 1982 search  
HYDROGEN ISOTOPES  
BT: Hydrogen isotopes  
RT: Deuterium compounds
- Deuterium compounds**  
BT: Hydrogen compounds  
RT: Deuterium  
Heavy water
- Developed countries**  
BT: Countries  
RT: Developing countries  
Poverty alleviation
- Developing countries**  
UF: Developing nations  
Developing world  
Underdeveloped countries  
BT: Countries  
RT: Developed countries  
Poverty alleviation
- Developing nations  
USE: **Developing countries**
- Developing world  
USE: **Developing countries**
- Development (biological)  
USE: **Biological development**
- Development (products)  
USE: **Product development**
- Development (resources)  
USE: **Resource development**
- Development (rural)  
USE: **Rural development**
- Development (urban)  
USE: **Urbanization**
- Development plans  
USE: **Development projects**
- Development potential**  
RT: Development projects  
Resource availability  
Resource development
- Development projects**  
UF: Development plans  
RT: Aquaculture development  
Capacity building  
Development potential  
Fishery aid  
Fishery development  
International cooperation  
Poverty alleviation  
Resource development  
Technology transfer  
Visual impact
- Developmental stages**  
NT: Adults  
Embryos  
Gametophytes  
Juveniles  
Larvae  
RT: Biological development
- Diapause  
Emergence  
Growth  
Kelt  
Life cycle  
Metamorphosis  
Ontogeny  
Resting stages
- Devonian**  
SN: Before 1982 search  
DEVONIAN PERIOD  
BT: Palaeozoic
- Dew point**  
UF: Dew point temperature  
BT: Transition temperatures  
RT: Condensation  
Fog  
Humidity  
Mixing ratio  
Water vapour
- Dew point temperature  
USE: **Dew point**
- Dewatering**  
RT: Dehydration  
Drying  
Pore water  
Water content
- Diadromy**  
SN: The migration, in either direction, of fish or other organisms between the sea and fresh water, not limited to the purpose of spawning  
RT: Anadromous species  
Catadromous species  
Euryhalinity  
Spawning migrations
- Diagenesis**  
BT: Sedimentation  
NT: Authigenesis  
Calcitization  
Cementation  
Compaction  
Consolidation  
Dolomitization  
Lithification  
RT: Bioturbation  
Calcification  
Catagenesis  
Chertification  
Gas turbation  
Metasomatism  
Sedimentology  
Silicification
- Diagnosis (diseases)  
USE: **Disease detection**
- Dialysis**  
BT: Separation processes  
NT: Electrolysis

RT: Colloids  
Osmosis

**Diamonds**

BT: Placers  
RT: Carbon  
Graphite  
Kimberlites

**Diapause**

SN: The state of suspended development  
RT: Developmental stages  
Growth  
Photoperiodicity

**Diapirism**

BT: Rock deformation  
RT: Diapirs  
Igneous intrusions  
Salt domes

**Diapirs**

RT: Cap rocks  
Diapirism  
Salt domes  
Structural domes

**Diarrhetic shellfish poisoning**

UF: Diarrhoeic shellfish poisoning  
Shellfish poisoning (diarrhetic)  
BT: Human diseases  
RT: Paralytic shellfish poisoning

Diarrhoeic shellfish poisoning

USE: **Diarrhetic shellfish poisoning**

**Diastrophism**

NT: Crustal shortening

Diatom culture

USE: **Phytoplankton culture**

**Diatom ooze**

BT: Siliceous ooze  
RT: Diatomites  
Diatoms  
Fossil diatoms

**Diatomites**

BT: Siliceous rocks  
RT: Diatom ooze  
Diatoms

**Diatoms**

SN: Microscopic one-celled algae.  
Before 2016 search also taxonomic descriptor  
BACILLARIOPHYCEAE  
BT: Algae  
RT: Diatom ooze  
Diatomites

Dichlorodiphenyltrichloroethane  
USE: **DDT**

Dichlorodiphenylethylene  
USE: **DDE**

Dicothermal layer  
USE: **Temperature inversions**

Dictionaries  
USE: **Glossaries**

**Dieldrin**

BT: Chlorinated hydrocarbons  
RT: Insecticides

**Dielectric constant**

BT: Electrical properties  
RT: Capacitance  
Ice properties

**Diesel engines**

BT: Motors  
RT: Propulsion systems  
Shipboard equipment

Diesel fuels

USE: **Fuels**

**Dietary deficiencies**

NT: Nutrient deficiency  
Protein deficiency  
Vitamin deficiencies  
RT: Deficiency diseases  
Diets  
Feed composition  
Feeding experiments  
Nutrition disorders  
Nutritional requirements  
Nutritive value

**Dietary fibre**

UF: Dietary fiber  
Digestible fibre  
Fibre (dietary)  
BT: Organic constituents  
RT: Animal nutrition  
Diets  
Feed  
Food  
Food composition  
Polysaccharides

Dietry fiber

USE: **Dietary fibre**

**Diets**

NT: Balanced diets  
Basic diets  
RT: Animal nutrition  
Artificial feeding  
Bioactive compounds  
Dietary deficiencies  
Dietary fibre  
Feed efficiency  
Nutrition disorders  
Nutritional requirements  
Nutritive value

**Differential distribution**

SN: Restricted to areal distribution of the life history stages of aquatic organisms  
BT: Geographical distribution  
RT: Life cycle

**Differential equations**

SN: Including integral equations  
BT: Equations  
RT: Eigenfunctions  
Finite element method  
Harmonic analysis  
Integral equations  
Nonlinear equations  
Numerical analysis

Differentiation (cells)

USE: **Cell differentiation**

**Diffraction**

SN: Use of a more specific term is recommended  
NT: Light diffraction  
Sound diffraction  
Wave diffraction  
RT: Wave motion  
X-ray diffraction analysis

Diffuse pollution

USE: **Nonpoint pollution sources**

Diffuse sky radiation

USE: **Solar radiation**

**Diffusion**

BT: Transport processes  
NT: Atmospheric diffusion  
Molecular diffusion  
Thermal diffusion  
Turbulent diffusion  
RT: Adsorption  
Conservation equations  
Density  
Diffusion coefficients  
Equilibrium  
Evaporation  
Ion exchange  
Ion transport  
Leaching  
Mass transfer  
Mixing processes  
Momentum  
Osmosis  
Permeability  
Separation  
Turbulence  
Water circulation  
Water mixing

Diffusion (dye patch)

USE: **Dye dispersion**

**Diffusion coefficients**

UF: Diffusivity  
BT: Exchange coefficients  
RT: Diffusion  
Eddy diffusivity

Diffusive convection  
USE: **Double diffusion**

Diffusivity  
USE: **Diffusion coefficients**

**Digestibility**  
BT: Organoleptic properties  
RT: Digestion

Digestible fibre  
USE: **Dietary fibre**

**Digestion**  
RT: Animal nutrition  
Digestibility  
Digestive system  
Enzymatic activity  
Excretory products  
Food absorption  
Food consumption  
Food conversion  
Hydrolysis  
Ingestion  
Metabolism  
Physiology

**Digestive glands**  
BT: Digestive system  
Exocrine glands  
NT: Hepatopancreas  
Liver  
Pancreas  
RT: Alimentary organs  
Pyloric caeca

**Digestive system**  
SN: Before 1995 search also  
DIGESTIVE TRACT  
UF: Digestive tract  
Gastrointestinal system  
BT: Anatomical structures  
NT: Alimentary organs  
Digestive glands  
RT: Abdomen  
Digestion  
Oesophagus  
Prebiotics  
Probiotics

Digestive tract  
USE: **Digestive system**

Digital data records  
USE: **Digital records**

**Digital records**  
UF: Digital data records  
BT: Records  
RT: Analog records  
Data converters

Dikes (embankments)  
USE: **Embankments**

**Dilution**  
RT: Water mixing

**Dimensionless numbers**  
NT: Mixing ratio  
RT: Froude number  
Prandtl number  
Ratios  
Reynolds number  
Rossby number

**Dimensions**  
NT: Amplitude  
Area  
Capacity  
Depth  
Height  
Length  
Size  
Thickness  
Volume  
Width  
RT: Morphometry  
Shape  
Spatial variations

Dimorphism (sexual)  
USE: **Sexual dimorphism**

**Dioxins**  
UF: Polychlorinated  
dibenzodioxins  
BT: Chlorinated hydrocarbons

**Diploids**  
SN: A cell or an organisms with  
two sets of chromosomes, one  
set being derived from the  
female parent and the other from  
the male  
UF: Diploidy  
BT: Ploidy  
RT: Chromosomes  
Haploids  
Polyploids  
Zygotes

Diploidy  
USE: **Diploids**

**Direction**  
NT: Wave direction  
Wind direction  
RT: Azimuth  
Direction finding  
Direction indicators  
Directional spectra  
Echo ranging  
Horizon

**Direction finding**  
RT: Direction  
Navigation

**Direction indicators**  
BT: Instruments  
NT: Compasses

RT: Direction  
Vanes

**Directional spectra**  
UF: Directional wave spectra  
BT: Spectra  
RT: Direction  
Energy spectra  
Internal waves  
Long-crested waves  
Short-crested waves  
Surface water waves  
Wave direction

Directional wave spectra  
USE: **Directional spectra**

Directories  
BT: **Documents**

**Disasters**  
UF: Catastrophes  
Disasters (natural)  
Natural disasters  
NT: Famine  
RT: Accidents  
Avalanches  
Damage assessment  
Droughts  
Earthquakes  
El Nino phenomena  
Emergencies  
Flash floods  
Floods  
Hazards  
Hurricanes  
Storm surges  
Tsunamis  
Volcanic eruptions

Disasters (man-made)  
USE: **Accidents**

Disasters (natural)  
USE: **Disasters**

Discard catch  
USE: **Discards**

Discarded catch  
USE: **Discards**

**Discards**  
SN: Fish released/returned to the  
sea, dead or alive, whether or  
not brought fully on board a  
fishing vessel.  
UF: Discard catch  
Discarded catch  
RT: By catch

Discoloration  
USE: **Discolouration**

Discolored water  
USE: **Discoloured water**

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**Discolouration**

UF: Discoloration  
RT: Chromatic pigments  
Colour  
Degradation  
Pigments  
Staining

**Discoloured water**

SN: Before 1982 search also RED  
TIDES  
UF: Discolored water  
BT: Water  
RT: Red tides  
Water colour

**Discontinuity layers**

BT: Layers  
NT: Halocline  
Lysocline  
Nepheloid layer  
Pycnocline  
Scattering layers  
Thermocline  
RT: Environmental factors  
Interfaces  
Thermal stratification

**Discus-shaped buoys**

BT: Buoy hulls

**Disease control**

BT: Control  
RT: Aetiology  
Cancer  
Disease detection  
Disease resistance  
Diseases  
Epidemiology  
Pathogens  
Pest control  
Probiotics  
Prophylaxis  
Therapy

**Disease detection**

UF: Diagnosis (diseases)  
BT: Detection  
RT: Aetiology  
Cancer  
Disease control  
Diseases  
Symptoms  
Therapy

Disease preventive treatment

USE: **Prophylaxis**

**Disease resistance**

UF: Disease susceptibility  
Pathogen resistance  
Resistance to disease  
BT: Biological resistance  
RT: Cancer  
Disease control  
Diseases  
Drug resistance

Environmental effects  
Immunity  
Vaccination

Disease susceptibility  
USE: **Disease resistance**

**Disease transmission**

UF: Transmission of diseases  
RT: Diseases

Disease treatment

USE: **Therapy**

**Diseases**

UF: Disorders (biological)  
Morbidity  
NT: Animal diseases  
Cancer  
Deficiency diseases  
Environmental diseases  
Haematological diseases  
Human diseases  
Husbandry diseases  
Infectious diseases  
Metabolic disorders  
Nutrition disorders  
Plant diseases  
Tumours

RT: Aetiology

Carcinogens  
Disease control  
Disease detection  
Disease resistance  
Disease transmission  
Haemorrhage  
Histopathology  
Hosts  
Hygiene  
Immunology  
Medicine  
Microbial contamination  
Mortality causes  
Natural mortality  
Necroses  
Pathogens  
Pathology  
Prophylaxis  
Sublethal effects  
Symptoms  
Therapy  
Virulence

**Disinfectants**

UF: Antiseptics  
BT: Biocides  
RT: Chemical compounds  
Chlorine  
Disinfection  
Iodophors  
Pesticides

**Disinfection**

RT: Chlorination  
Dechlorination  
Disinfectants  
Microbial contamination

Pathogens  
Water purification

Disorders (biological)  
USE: **Diseases**

Disorders (human)  
USE: **Human diseases**

Dispersal phenomena  
USE: **Dispersion**

**Dispersants**

SN: Chemicals used to contribute to the break-up of an oil spill  
UF: Dispersing agents  
BT: Agents  
RT: Anticoagulants  
Dispersion  
Oil removal  
Oil spills  
Solvents  
Surfactants

Dispersing  
USE: **Dispersion**

Dispersing agents  
USE: **Dispersants**

**Dispersion**

UF: Dispersal phenomena  
Dispersing  
Spreading  
NT: Biological drift  
Dye dispersion  
Light dispersion  
Longitudinal dispersion  
Sound dispersion  
Wave dispersion  
RT: Deflocculation  
Dispersants  
Fate  
Mixing processes  
Separation  
Water mixing

Dispersion (water waves)  
USE: **Wave dispersion**

Dispersions (chemical)  
USE: **Colloids**

**Displacement**

SN: Weight of water displaced by vehicle; weight in water  
RT: Flotation  
Motion  
Weight

**Display behaviour**

BT: Behaviour  
RT: Agonistic behaviour  
Courtship

Disposal (waste)  
USE: **Waste disposal**

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**Disputes**

UF: Conflict of interests  
Conflicts  
NT: Fishery disputes  
RT: International law  
Legal aspects

Dissipation (water waves)

USE: **Wave dissipation**

**Dissociation**

BT: Chemical reactions  
RT: Pyrolysis

**Dissolution**

UF: Solution  
BT: Separation processes  
NT: Calcite dissolution  
RT: Exchange capacity  
Karst  
Leaching  
Solubility  
Solutions  
Solvent extraction  
Solvents  
Supersaturation

**Dissolved chemicals**

UF: Dissolved mineral resources  
RT: Chemical compounds  
Chemical elements  
Hot brines  
Solubility  
Solutions

**Dissolved gases**

BT: Gases  
NT: Dissolved oxygen  
RT: Bubble disease  
Solubility  
Solutions  
Water analysis

**Dissolved inorganic carbon**

BT: Dissolved inorganic matter  
Inorganic carbon

**Dissolved inorganic matter**

BT: Inorganic matter  
NT: Dissolved inorganic carbon  
RT: Solutions

Dissolved mineral resources

USE: **Dissolved chemicals**

**Dissolved organic carbon**

BT: Dissolved organic matter  
Organic carbon  
RT: Total organic carbon

**Dissolved organic matter**

SN: Before 1982 search  
ORGANIC SUSPENDED  
MATTER  
BT: Organic matter  
NT: Dissolved organic carbon

Dissolved organic nitrogen  
Dissolved organic phosphorus  
RT: Solutions

**Dissolved organic nitrogen**

BT: Dissolved organic matter  
Organic nitrogen

**Dissolved organic phosphorus**

BT: Dissolved organic matter  
Organic phosphorus

**Dissolved oxygen**

UF: DO  
Oxygen content  
BT: Dissolved gases  
Oxygen  
RT: Abiotic factors  
Aeration  
Aerobic respiration  
Anoxic basins  
Anoxic conditions  
Biological uptake  
Eutrophication  
Hydrographic sections  
Non-conservative properties  
Oxygen minimum layer  
Oxygen profiles  
Water properties  
Winkler method

**Dissolved salts**

BT: Salts  
RT: Brines  
Chlorine compounds  
Desalination  
Fluorine compounds  
Salinity  
Salt budget  
Salt fingers  
Salt flux  
Salt lakes  
Sodium compounds  
Water properties

Distance (genetics)

USE: **Genetic distance**

Distant water fisheries

USE: **High seas fisheries**

**Distillation**

BT: Separation processes  
RT: Demineralization  
Desalination  
Distilled water

**Distilled water**

BT: Water  
RT: Distillation

Distortion

USE: **Deformation**

**Distress signals**

UF: Beacons (distress)  
BT: Alarm systems

**Distributaries**

SN: A distributary, or a distributary channel, is a stream that branches off and flows away from a main stream channel. They are common features of river deltas  
UF: Distributary  
Distributary channels  
BT: Rivers  
RT: Deltas  
Fluvial morphology  
Tributaries

Distributary

USE: **Distributaries**

Distributary channels

USE: **Distributaries**

**Distribution**

SN: Use of a narrower term is recommended  
NT: Ecological distribution  
Gaussian distribution  
Geographical distribution  
Geological distribution  
Quantitative distribution  
Sediment distribution  
Temporal distribution  
RT: Distribution records  
New records  
Patchiness

Distribution-free methods

USE: **Non-parametric methods**

**Distribution records**

RT: Biological charts  
Distribution  
Type localities

Disturbance (ecosystem)

USE: **Ecosystem disturbance**

Ditching

USE: **Trenching**

Diurnal rhythms

USE: **Circadian rhythms**

**Diurnal thermocline**

BT: Thermocline  
RT: Diurnal variations

**Diurnal tides**

UF: Lunar diurnal tides  
Solar diurnal tides  
BT: Tides

**Diurnal variations**

UF: Daily variation  
BT: Periodic variations  
RT: Circadian rhythms  
Daily  
Daytime

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Diurnal thermocline  
 Nighttime  
 Nyctimeral rhythms  
 Photoperiodicity  
 Photoperiods  
 Vertical distribution  
 Vertical migrations

**Divergence**

NT: Plate divergence  
 RT: Convergence  
 Divergence zones  
 Horizontal motion  
 Langmuir circulation  
 Oceanic fronts  
 Upwelling

**Divergence zones**

NT: Oceanic divergences  
 RT: Convergence zones  
 Divergence  
 Upwelling  
 Water masses

Divergent margins

USE: **Passive margins**

**Diverging plate boundaries**

UF: Accreting plate boundaries  
 BT: Plate boundaries  
 RT: Converging plate boundaries  
 Crustal accretion  
 Mantle plumes  
 Mid-ocean ridges  
 Plate divergence  
 Rift zones  
 Spreading centres

**Divers**

RT: Diving  
 Diving equipment  
 Diving industry  
 Diving physiology

Divers physiology

USE: **Diving physiology**

Divers safety

USE: **Diving regulations**

Divers work

USE: **Working underwater**

Diversity index

USE: **Species diversity**

**Diving**

NT: Deep-sea diving  
 Saturation diving  
 Scuba diving  
 RT: Divers  
 Diving accidents  
 Diving bells  
 Diving equipment  
 Diving hazards  
 Diving physiology  
 Diving regulations

Fishing by diving  
 Search and rescue  
 Spear fishing  
 Surveying underwater  
 Underwater exploration  
 Underwater medicine  
 Visibility underwater  
 Working underwater

**Diving accidents**

BT: Accidents  
 RT: Diving  
 Diving hazards  
 Diving regulations  
 Drowning  
 Marine accidents  
 Mortality causes

**Diving bells**

BT: Manned vehicles  
 RT: Decompression chambers  
 Diving  
 One-atmosphere systems  
 Saturation diving  
 Submersibles  
 Support ships  
 Tethered vehicles  
 Underwater habitats  
 Working underwater

Diving chambers

USE: **Manned vehicles**

**Diving equipment**

UF: Diving gear  
 Diving systems  
 BT: Equipment  
 NT: Decompression chambers  
 Diving suits  
 Diving tools  
 RT: Breathing apparatus  
 Communication systems  
 Compressors  
 Decompression tables  
 Divers  
 Diving  
 Diving industry  
 Life support systems  
 Protective clothing  
 Submersibles  
 Support ships  
 Surveying equipment

Diving gear

USE: **Diving equipment**

**Diving hazards**

BT: Hazards  
 NT: Shark attacks  
 RT: Dangerous organisms  
 Diving  
 Diving accidents  
 Drowning  
 Hyperthermia

**Diving industry**

BT: Industries

RT: Divers  
 Diving equipment  
 Working underwater

Diving medicine

USE: **Underwater medicine**

**Diving physiology**

SN: All physiological and medical aspects of diving in man, mammals, and other animals, including experimental laboratory studies  
 UF: Divers physiology  
 BT: Physiology  
 RT: Animal physiology  
 Bone necrosis  
 Decompression sickness  
 Divers  
 Diving  
 Human physiology  
 Hyperthermia  
 Hypothermia  
 Pressure effects  
 Underwater medicine  
 Working underwater

**Diving regulations**

UF: Divers safety  
 BT: Safety regulations  
 RT: Diving  
 Diving accidents

**Diving suits**

SN: Use for one-man equipment with articulated limbs  
 BT: Diving equipment  
 RT: Manipulators  
 One-atmosphere systems  
 Saturation diving  
 Submersibles  
 Umbilicals

**Diving surveys**

BT: Surveys  
 RT: Surveying underwater  
 Underwater exploration

Diving systems

USE: **Diving equipment**

**Diving tools**

SN: Pertains to tools operated by divers  
 UF: Tools (underwater)  
 Underwater tools  
 BT: Diving equipment  
 RT: Underwater equipment  
 Working underwater

Diving vehicles

USE: **Manned vehicles**

**DNA**

SN: Before 1982 search  
 DEOXYRIBONUCLEIC ACID  
 UF: Deoxyribonucleic acid

- BT: Nucleic acids  
 NT: cDNA  
 mtDNA  
 RT: Chemotaxonomy  
 DNA barcoding  
 DNA fingerprinting  
 DNA replication  
 DNA sequencing  
 Genes  
 Genetic markers  
 Plasmids  
 Polymerase chain reaction  
 Polymerization  
 Promoters  
 Protein sequencing  
 RNA sequencing  
 Sequencing
- DNA banks  
 USE: **Gene libraries**
- DNA barcoding**  
 SN: Techniques for standardizing and expediting taxonomic identification or classification of organisms that are based on deciphering the sequence of one or a few regions of DNA known as the 'DNA barcode'  
 BT: DNA sequencing  
 RT: Biodiversity  
 DNA  
 DNA fingerprinting  
 Phylogenetics  
 Species identification  
 Taxonomy
- DNA fingerprinting**  
 SN: Works on any method of isolating and identifying variable elements within the base-pair sequence of DNA  
 UF: DNA profiling  
 DNA testing  
 DNA typing  
 Genetic fingerprinting  
 Genetic profiling  
 BT: Fingerprinting  
 Genetic techniques  
 RT: Biotechnology  
 DNA  
 DNA barcoding  
 DNA sequencing  
 Genes  
 Genetic markers  
 Genetics  
 Genotypes  
 Microsatellites  
 Nucleotide sequence  
 Polymerase chain reaction
- DNA markers  
 USE: **Genetic markers**
- DNA profiling  
 USE: **DNA fingerprinting**
- DNA replication**  
 SN: Before 2016 search  
 REPLICATION + DNA  
 BT: Replication  
 RT: DNA  
 Genes  
 Genomes  
 Nucleic acids  
 Polymerase chain reaction
- DNA sequencing**  
 SN: A multistage process that includes cloning, physical mapping, subcloning, determination of the DNA Sequence, and information analysis  
 BT: Sequencing  
 NT: DNA barcoding  
 RT: DNA  
 DNA fingerprinting
- DNA testing  
 USE: **DNA fingerprinting**
- DNA typing  
 USE: **DNA fingerprinting**
- DO  
 USE: **Dissolved oxygen**
- Docking  
 USE: **Berthing**
- Docks  
 USE: **Port installations**
- Documentation**  
 RT: Bibliographic information  
 Data collections  
 Documents  
 Framework
- Documentation services  
 USE: **Information services**
- Documents**  
 SN: Before 1982 search also  
 PUBLICATIONS  
 UF: Correspondence (letters)  
 Fisheries literature  
 Manuscripts (historical)  
 Publications  
 NT: Atlases  
 Bibliographies  
 Biographies  
 Catalogues  
 Collected papers  
 Directories  
 Encyclopaedias  
 Expedition reports  
 Gazetteers  
 Glossaries  
 Guidelines  
 Logbooks  
 Manuals  
 Tables
- Thesaurus  
 RT: Abstracts  
 Audiovisual materials  
 Documentation  
 Literature reviews  
 Microforms  
 Obituaries  
 Patents  
 Publicity material  
 Report literature  
 Synopsis  
 Transcription  
 Translations
- Doldrums  
 USE: **Equatorial trough**
- Dolomite**  
 SN: Use only for mineral dolomite  
 BT: Carbonate minerals  
 RT: Dolostone  
 Evaporites
- Dolomite (rock)  
 USE: **Dolostone**
- Dolomitization**  
 BT: Diagenesis  
 RT: Calcitization  
 Calcium carbonates  
 Dolostone  
 Limestone
- Dolostone**  
 UF: Dolomite (rock)  
 BT: Carbonate rocks  
 RT: Dolomite  
 Dolomitization
- Domes**  
 BT: Anticlines  
 RT: Salt domes
- Domestic species**  
 SN: Species kept by man from the wild  
 UF: Domesticated species  
 BT: Species  
 RT: Cultured organisms  
 Domestication  
 Introduced species  
 Selective breeding
- Domestic wastes**  
 BT: Wastes  
 RT: Detergents  
 Organic wastes  
 Sewage  
 Soaps
- Domesticated species  
 USE: **Domestic species**
- Domestication**  
 RT: Captivity  
 Domestic species



**Dominance hierarchies**

SN: Before 1982 search SOCIAL BEHAVIOUR  
 UF: Hierarchies (social)  
 Social hierarchy  
 NT: Pecking order  
 RT: Competition  
 Social behaviour  
 Territoriality

**Dominant species**

BT: Species  
 RT: Climax community  
 Community composition  
 Ecological associations  
 Ecological succession  
 Multispecies fisheries  
 Species diversity

**Doppler effect**

UF: Doppler shift  
 RT: Doppler navigation  
 Doppler sonar

**Doppler navigation**

UF: Doppler sonar navigation  
 BT: Acoustic navigation  
 RT: Doppler effect

Doppler shift

USE: **Doppler effect**

**Doppler sonar**

UF: Acoustic doppler sonar  
 BT: Active sonar  
 RT: Doppler effect

Doppler sonar navigation

USE: **Doppler navigation**

**Dormancy**

RT: Aestivation  
 Hibernation  
 Metabolism  
 Resting stages  
 Thermoregulation

Dormant stages

USE: **Cysts**

**Double diffusion**

UF: Diffusive convection  
 Double diffusive convection  
 Salt finger convection  
 Salt fingering  
 BT: Molecular diffusion  
 RT: Double diffusive instability  
 Microstructure  
 Salinity gradients  
 Salt fingers  
 Temperature gradients  
 Vertical mixing

Double diffusive convection

USE: **Double diffusion**

**Double diffusive instability**

BT: Instability  
 RT: Double diffusion  
 Trans-isopycnal mixing

Double kelvin waves

USE: **Kelvin waves**

Douglas scale

USE: **Sea state scales**

Downstream migrations

USE: **Catadromous migrations**

**Downward irradiance**

BT: Irradiance

**Downward long wave radiation**

UF: Atmospheric radiation  
 BT: Terrestrial radiation

**Downwelling**

BT: Vertical water movement  
 RT: Convergence  
 Mixing processes  
 Oceanic convergences  
 Tidal fronts  
 Upwelling  
 Water mixing

**Drag**

NT: Form drag  
 RT: Bottom stress  
 Drag coefficient  
 Friction  
 Wind stress  
 Wind wave generation

**Drag coefficient**

RT: Bed roughness  
 Drag  
 Kinetic energy  
 Reynolds number  
 Surface roughness  
 Wind stress  
 Wind wave generation

Dragging nets

USE: **Bottom trawls**

Drainage basins

USE: **River basins**

**Drainage water**

SN: Drainage water of artificial or natural origin  
 BT: Water  
 NT: Acid mine drainage  
 Runoff  
 RT: Sewage  
 Urban watersheds  
 Waste water  
 Water table  
 Watersheds

Drawings

USE: **Illustrations**

**Dredge spoil**

BT: Wastes  
 RT: Dredgers  
 Dredging  
 Spoil

**Dredged samples**

BT: Sediment samples  
 RT: Dredges (geology)

**Dredgers**

UF: Dredging vessels  
 BT: Surface craft  
 RT: Channels  
 Dredge spoil  
 Dredges  
 Dredging  
 Work platforms

**Dredges**

SN: Refers to fishing dredges only. For sediment dredges use DREDGES (GEOLOGY)  
 UF: Boat dredges  
 Dredges (fishing)  
 Hand dredges  
 BT: Fishing gear  
 RT: Boats  
 Dredgers

Dredges (fishing)

USE: **Dredges**

**Dredges (geology)**

BT: Sediment samplers  
 RT: Dredged samples  
 Seafloor sampling

**Dredging**

UF: Dredging (excavation)  
 RT: Dredge spoil  
 Dredgers  
 Excavation underwater  
 Port operations  
 Trenching

Dredging (catching methods)

USE: **Bottom trawling**

Dredging (excavation)

USE: **Dredging**

Dredging vessels

USE: **Dredgers**

**Dressing**

SN: Removal of scales, head and tail from fish  
 UF: Fish dressing  
 BT: Fish handling  
 NT: Gutting  
 RT: Curing

Dried fish

USE: **Dried products**

**Dried products**

UF: Dehydrated products  
 Dried fish  
 Sun dried products  
 BT: Processed fishery products  
 NT: Freeze-dried products  
 RT: Cured products  
 Drying

Dried salted products  
 USE: **Cured products**

**Drift**

NT: Ice drift  
 Ship drift  
 RT: Anchoring  
 Continental drift  
 Drifters  
 Motion

Drift (biological)  
 USE: **Biological drift**

Drift (continental)  
 USE: **Continental drift**

Drift (genetic)  
 USE: **Genetic drift**

Drift (ice)  
 USE: **Ice drift**

Drift (sediments)  
 USE: **Glacial deposits**

Drift (ships)  
 USE: **Ship drift**

**Drift bottles**  
 SN: Before 1982 search  
 DRIFTERS  
 UF: Bottle post  
 BT: Surface drifters  
 RT: Drift cards

Drift buoys  
 USE: **Drifting data buoys**

**Drift cards**  
 SN: Before 1982 search  
 DRIFTERS  
 BT: Surface drifters  
 RT: Drift bottles

Drift currents  
 USE: **Wind-driven currents**

Drift lines  
 USE: **Lines**

Drift nets  
 USE: **Gillnets**

**Drifters**  
 UF: Floats (current measurement)  
 Lagrangian drifters  
 BT: Current measuring equipment

NT: Subsurface drifters  
 Surface drifters  
 RT: Drift

Drifting buoys  
 USE: **Drifting data buoys**

**Drifting data buoys**  
 SN: Before 1985 search also  
 DRIFT BUOYS  
 UF: Drift buoys  
 Drifting buoys  
 Expendable drifting buoys  
 Lagrangian drifting buoys  
 Satellite-tracked buoys  
 BT: Data buoys  
 Surface drifters  
 RT: Drifting stations

**Drifting stations**  
 BT: Oceanographic stations  
 RT: Drifting data buoys  
 Ice islands

Drill bits  
 USE: **Drills**

Drill holes  
 USE: **Boreholes**

**Drill pipe**  
 RT: Drill string  
 Drilling equipment  
 Drilling fluids  
 Drilling rigs  
 Drills

Drill stem  
 USE: **Drill string**

**Drill string**  
 UF: Drill stem  
 RT: Drill pipe  
 Drilling equipment  
 Drills  
 Heave compensators

**Drilling**  
 SN: Before 1986 search also  
 OFFSHORE DRILLING  
 UF: Boring  
 Offshore drilling  
 NT: Deep-sea drilling  
 RT: Boreholes  
 Coring  
 Drilling equipment  
 Drilling platforms  
 Heave compensators  
 Hydraulic fracturing  
 Oil and gas exploration  
 Oil wells  
 Production platforms  
 Seafloor sampling  
 Templates  
 Underwater exploration

Drilling devices  
 USE: **Drilling equipment**

**Drilling equipment**  
 SN: Before 1982 search  
 DRILLING DEVICES  
 UF: Drilling devices  
 BT: Equipment  
 NT: Drilling rigs  
 RT: Corers  
 Drill pipe  
 Drill string  
 Drilling  
 Drilling fluids  
 Drilling platforms  
 Production platforms

**Drilling fluids**  
 UF: Drilling muds  
 Muds (drilling)  
 Sludge (drilling fluids)  
 BT: Fluids  
 RT: Drill pipe  
 Drilling equipment

Drilling muds  
 USE: **Drilling fluids**

**Drilling platforms**  
 SN: Use with type of offshore structures  
 BT: Work platforms  
 RT: Drilling  
 Drilling equipment  
 Drilling rigs  
 Drilling vessels  
 Production platforms

**Drilling rigs**  
 UF: Oil rigs  
 Rigs  
 BT: Drilling equipment  
 RT: Drill pipe  
 Drilling platforms  
 Production platforms

Drilling ships  
 USE: **Drilling vessels**

**Drilling vessels**  
 UF: Drilling ships  
 RT: Deep-sea drilling  
 Drilling platforms  
 Production platforms  
 Surface craft  
 Work platforms

**Drills**  
 UF: Drill bits  
 BT: Sediment samplers  
 RT: Drill pipe  
 Drill string

**Drinking water**  
 UF: Potable water  
 BT: Water  
 RT: Fresh water

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- Non-living resources  
Water authorities  
Water reservoirs  
Water resources  
Water supply  
Water treatment
- Drogues**  
BT: Surface drifters  
RT: Anchors  
Buoys  
Current measuring equipment  
Lagrangian current measurement
- Droplets**  
UF: Drops  
Rain drops  
BT: Hydrometeors  
RT: Bubble bursting  
Capillarity  
Spray
- Drops  
USE: **Droplets**
- Dropsonde**  
BT: Profilers  
RT: Velocity profilers
- Dropwindsondes  
USE: **Radiosondes**
- Drought resistance**  
BT: Biological resistance  
RT: Droughts  
Environmental effects  
Temporary ponds
- Droughts**  
UF: Drouths  
BT: Weather hazards  
RT: Arid environments  
Disasters  
Drought resistance  
Dry season  
Rain  
Rainfall  
Temporary ponds  
Water levels  
Water resources
- Drouths  
USE: **Droughts**
- Drowned valleys**  
UF: Rias  
BT: Coastal inlets  
Valleys  
RT: Coastal landforms  
Fjords  
Submarine valleys  
Submerged shorelines
- Drowning**  
BT: Marine accidents  
RT: Bathing
- Diving accidents  
Diving hazards  
Mortality causes
- Drug pollution  
USE: **Pharmaceutical pollution**
- Drug resistance**  
UF: Resistance to drugs  
BT: Biological resistance  
RT: Control resistance  
Disease resistance  
Drugs
- Drug toxicology  
USE: **Toxicology**
- Drugs**  
UF: Pharmaceutical products  
NT: Anaesthetics  
Antibiotics  
Aquatic drugs  
Narcotics  
Vaccines  
Veterinary drugs  
RT: Alkaloids  
Antitumour agents  
Antiviral agents  
Coagulants  
Drug resistance  
Hormones  
Inhibitors  
Medicine  
Pharmaceutical pollution  
Pharmacology  
Steroids  
Therapy  
Vitamins
- Dry bulb temperature  
USE: **Air temperature**
- Dry diving  
USE: **Deep-sea diving**
- Dry season**  
BT: Seasons  
RT: Droughts  
Rainy season  
Tropical environment  
Tropical lakes
- Dry weight**  
BT: Weight  
RT: Drying
- Drydocks**  
RT: Maintenance and repair  
Port installations  
Ship conversion  
Ship technology  
Shipyards  
Surface craft
- Drying**  
UF: Drying of fish  
Fish drying
- BT: Processing fishery products  
NT: Freeze-drying  
RT: Adsorption  
Curing  
Dehydration  
Desiccation  
Dewatering  
Dried products  
Dry weight  
Evaporation  
Separation  
Water content
- Drying of fish  
USE: **Drying**
- Duck-fish culture  
USE: **Agropisciculture**
- Ductless glands  
USE: **Endocrine glands**
- Dumping  
USE: **Ocean dumping**
- Dumping grounds  
USE: **Waste disposal sites**
- Dune stabilization**  
RT: Beach erosion  
Coastal zone management  
Dunes  
Erosion control  
Vegetation cover
- Dunes**  
UF: Coastal dunes  
Sand dunes (subaerial)  
BT: Beach features  
RT: Beaches  
Bed forms  
Coasts  
Dune stabilization  
Sand  
Sand waves
- Dung  
USE: **Manure**
- Dungeness crab fisheries  
USE: **Crab fisheries**
- Durability  
USE: **Toughness**
- Duration**  
RT: Wave parameters  
Wind wave generation  
Wind wave parameters
- Dust**  
NT: Cosmic dust  
Eolian dust  
RT: Air pollution  
Atmospheric particulates  
Dust clouds  
Haze  
Radioactive contamination

- Dust (atmospheric)  
USE: **Atmospheric particulates**
- Dust (cosmic)  
USE: **Cosmic dust**
- Dust (volcanic)  
USE: **Volcanic ash**
- Dust clouds**  
UF: Dust falls  
Dust storms  
RT: Dust  
Eolian transport  
Haze  
Volcanic ash
- Dust falls  
USE: **Dust clouds**
- Dust storms  
USE: **Dust clouds**
- Dye dispersion**  
UF: Diffusion (dye patch)  
BT: Dispersion  
RT: Dyes  
Oceanic turbulence  
Turbulent diffusion
- Dyes**  
BT: Tracers  
NT: Rhodamine B-dye  
RT: Dye dispersion  
Pigments  
Staining
- Dynamic analysis**  
BT: Analysis
- Dynamic height**  
UF: Geopotential  
BT: Potential energy  
RT: Dynamic height anomaly  
Dynamic topography  
Height  
Stream functions
- Dynamic height anomaly**  
UF: Geopotential anomaly  
BT: Anomalies  
RT: Dynamic height  
Isobaric surfaces  
Specific volume anomalies
- Dynamic instability  
USE: **Instability**
- Dynamic loads**  
BT: Loads (forces)  
RT: Cyclic loading  
Structural dynamics
- Dynamic positioning**  
BT: Positioning systems  
RT: Acoustic beacons
- Locating  
Navigation  
Thrusters
- Dynamic response**  
BT: Instrument responses  
NT: Heave response  
Pitch response  
Roll response  
Surge response  
Yaw response  
RT: Frequency
- Dynamic topography**  
UF: Geopotential topography  
BT: Topography  
RT: Dynamic height  
Geostrophic flow  
Geostrophic method  
Isobaric surfaces  
Streamlines  
Surface slope  
Surface topography
- Dynamic viscosity**  
BT: Viscosity  
RT: Eddy viscosity  
Momentum transfer  
Shear  
Shear flow  
Shear stress
- Dynamical oceanography**  
BT: Oceanography  
RT: Equatorial dynamics  
Estuarine dynamics  
Fluid mechanics  
Fluid motion  
Hydrodynamic equations  
Marine geodesy  
Nearshore dynamics  
Ocean-atmosphere system  
Ocean currents  
Seiches  
Shelf dynamics  
Tides
- Dynamics**  
BT: Mechanics  
NT: Cable dynamics  
Fluid dynamics  
Hydrodynamics  
Sediment dynamics  
Structural dynamics
- Dysprosium**  
BT: Lanthanides
- Dystrophic lakes**  
SN: Lakes with brown- or tea-coloured waters, the colour being the result of high concentrations of humic substances and organic acids suspended in the water. Although dystrophic lakes are often considered acidic, and nutrient-poor (oligotrophic), these lakes actually vary greatly in both pH and productivity  
UF: Dystrophic waters  
Humic lakes  
BT: Lakes  
RT: Eutrophic lakes  
Eutrophic waters  
Humic acids  
Hypereutrophic waters  
Hyperoligotrophic waters  
Mesotrophic waters  
Oligotrophic lakes  
Oligotrophic waters  
Stagnant water
- Dystrophic waters  
USE: **Dystrophic lakes**
- Eagre  
USE: **Tidal bores**
- Ears  
USE: **Auditory organs**
- Earth**  
RT: Earth atmosphere  
Earth curvature  
Earth history  
Earth orbit  
Earth rotation  
Earth sciences  
Earth structure  
Earth tides  
Earth tilt  
Geoid
- Earth (soil)  
USE: **Soils**
- Earth age  
USE: **Age**
- Earth atmosphere**  
SN: Before 1982 search also ATMOSPHERE (EARTH)  
UF: Atmosphere (earth)  
Terrestrial atmosphere  
BT: Planetary atmospheres  
NT: Stratosphere  
Tropopause  
Troposphere  
Upper atmosphere  
RT: Air  
Atmospheric chemistry  
Atmospheric motion  
Atmospheric physics  
Atmospheric pressure  
Degassing  
Earth  
Greenhouse effect  
Heat budget  
Hygrometry  
Meteorology  
Ocean-atmosphere system  
Ozone

**Earth core**

UF: Core (earth)  
 BT: Earth structure  
 RT: Earth mantle

**Earth crust**

UF: Crust (earth)  
 BT: Earth structure  
 NT: Continental crust  
 Oceanic crust  
 Sial  
 Sima  
 RT: Basement rock  
 Crustal shortening  
 Crustal structure  
 Crustal thickness  
 Earth mantle  
 Epeirogeny  
 Isostasy  
 Lithosphere  
 Tectonophysics

Earth currents

USE: **Telluric currents**

**Earth curvature**

RT: Earth

**Earth history**

RT: Atmosphere evolution  
 Earth

Earth magnetic field

USE: **Geomagnetic field**

Earth magnetism

USE: **Geomagnetism**

**Earth mantle**

SN: Before 1986 search also  
 MANTLE  
 UF: Mantle (earth)  
 BT: Earth structure  
 NT: Lower mantle  
 Upper mantle  
 RT: Continental drift  
 Degassing  
 Earth core  
 Earth crust  
 Mantle convection  
 Mantle plumes  
 Moho

Earth measurement

USE: **Geodesy**

**Earth orbit**

RT: Astronomy  
 Earth

Earth remote sensing

USE: **Geosensing**

**Earth rotation**

BT: Rotation  
 RT: Chandler wobble  
 Climatic changes

Earth

Polar wandering  
 Tidal friction

**Earth sciences**

NT: Atmospheric sciences  
 Geology  
 Geophysics  
 Oceanography  
 RT: Aquatic sciences  
 Earth

**Earth structure**

NT: Aseismic zones  
 Asthenosphere  
 Basement rock  
 Benioff zone  
 Earth core  
 Earth crust  
 Earth mantle  
 Lithosphere  
 Plates  
 Seismic layers  
 Seismic zones  
 RT: Continents  
 Earth  
 Moho

**Earth tides**

UF: Tides (earth)  
 BT: Tidal motion  
 RT: Atmospheric tides  
 Earth  
 Geodesy  
 Ocean loading  
 Tides  
 Tiltmeters

**Earth tilt**

RT: Earth

Earth waves

USE: **Seismic waves**

**Earthquake loading**

BT: Loads (forces)  
 RT: Earthquakes  
 Ground motion  
 Seismic activity

**Earthquake prediction**

BT: Prediction  
 RT: Earthquakes  
 Warning services

Earthquake waves

USE: **Seismic waves**

**Earthquakes**

UF: Seismic events  
 BT: Geological hazards  
 NT: Microearthquakes  
 RT: Active margins  
 Disasters  
 Earthquake loading  
 Earthquake prediction  
 Epicentres

Ground motion

Seaquakes  
 Seismic activity  
 Seismology  
 Slumping  
 Tsunami generation  
 Tsunamis

**Easterly waves**

RT: Equatorial easterlies  
 Equatorial trough  
 Tropical depressions  
 Tropical meteorology

**Eastern boundary currents**

BT: Boundary currents  
 RT: Coastal upwelling  
 Ekman transport  
 Tidal cycles

**Ebb currents**

BT: Tidal currents  
 RT: Low tide  
 Tidal cycles

Ecdysis

USE: **Moultling**

Ecdysones

USE: **Ecdysones**

**Ecdysones**

SN: Before 1982 search  
 HORMONES  
 UF: Ecdysones  
 Moulting hormones  
 BT: Hormones  
 RT: Moulting

**Echinoderm culture**

NT: Sea cucumber culture  
 Sea urchin culture  
 RT: Aquaculture

**Echinoderm fisheries**

BT: Shellfish fisheries  
 NT: Sea cucumber fisheries  
 Sea urchin fisheries  
 RT: Coastal fisheries  
 Marine fisheries

Echo counting systems

USE: **Fish counters**

Echo integration

USE: **Echo integrators**

**Echo integrators**

UF: Echo integration  
 RT: Acoustic equipment  
 Echoes  
 Fish counters  
 Sonar detection

**Echo ranging**

UF: Acoustic direction finding  
 Acoustic distance measurement

## ASFA THESAURUS

- Sound ranging  
RT: Acoustic tracking systems  
Active sonar  
Detection  
Direction  
Echoes  
Echolocation  
Sonar detection
- Echo surveys**  
UF: Acoustic surveys  
BT: Surveys  
RT: Echoes  
Echosounders  
Echosounding  
Fish sizing  
Fishery surveys  
Survey design  
Tracking
- Echoes**  
RT: Acoustics  
Echo integrators  
Echo ranging  
Echo surveys  
Echolocation  
Echosounder profiles  
Echosounders  
Echosounding
- Echolocation**  
RT: Auditory organs  
Behaviour  
Echo ranging  
Echoes  
Sonar detection  
Sound production
- Echosounder profiles**  
BT: Analog records  
RT: Bathymetric profiles  
Echoes  
Geological sections  
Vertical sections
- Echosounders**  
UF: Precision echosounders  
BT: Acoustic equipment  
RT: Active sonar  
Depth recorders  
Echo surveys  
Echoes  
Echosounding  
Sound recorders  
Wave measuring equipment
- Echosounding**  
SN: For detection of organisms and abundance estimation, depth and bottom structure  
UF: Depth finding  
BT: Depth measurement  
RT: Bathymetry  
Bottom topography  
Echo surveys  
Echoes  
Echosounders
- Remote sensing  
Scattering layers  
Seafloor mapping  
Sound waves  
Soundings  
Sub-bottom profiling
- Eclipse (solar)  
USE: **Solar eclipse**
- Ecoclines**  
BT: Clines  
RT: Ecological distribution  
Ecological zonation
- Ecolabelling**  
SN: Ecolabelling is generally a voluntary system aimed at encouraging sustainable use of resources by giving consumers a clear choice. For fish products, a distinctive logo or statement marks the product as having been harvested in compliance with conservation and sustainability standards  
RT: Certification  
Organic aquaculture
- Ecological aggregations**  
UF: Aggregations (ecological)  
RT: Environmental effects  
Social behaviour
- Ecological associations**  
SN: A characteristic association of animals and/or plants belonging to a particular habitat. Before 1982 search ASSOCIATIONS (ECOLOGICAL)  
UF: Animal associations  
Assemblages  
Associations (animal)  
Associations (ecological)  
Organism associations  
RT: Aquatic communities  
Biocoenosis  
Biotopes  
Climax community  
Cohorts  
Colonies  
Dominant species  
Ecological succession  
Habitat  
Synecology
- Ecological balance**  
SN: The state of dynamic equilibrium of a biotic community or ecosystem  
UF: Balance (ecological)  
Balance of nature  
Biological balance  
Biological equilibrium  
Ecosystem stability  
Stability (ecological)  
RT: Ecological crisis
- Ecology  
Ecosystem management  
Ecosystems
- Ecological balance disruption  
USE: **Ecological crisis**
- Ecological baseline studies  
USE: **Baseline studies**
- Ecological crisis**  
UF: Ecological balance disruption  
RT: Ecological balance  
Ecology  
Environmental effects  
Pollution
- Ecological distribution**  
BT: Distribution  
RT: Biogeography  
Biological rhythms  
Ecoclines  
Ecological zonation  
Ecology  
Ecosystems  
Endemic species  
Environmental effects  
Geographical distribution  
Limiting factors  
Migrations  
Relict species
- Ecological diversity  
USE: **Species diversity**
- Ecological efficiency**  
SN: Ratio of production to food ingestion  
UF: Efficiency (ecological)  
RT: Energy budget  
Food consumption  
Nutritional requirements
- Ecological niches  
USE: **Niches**
- Ecological physiology  
USE: **Ecophysiology**
- Ecological restoration  
USE: **Environmental restoration**
- Ecological sciences  
USE: **Ecology**
- Ecological succession**  
SN: Before 1982 search SUCCESSION (ECOLOGICAL)  
UF: Succession (ecological)  
RT: Aquatic communities  
Climax community  
Community composition  
Dominant species  
Ecological associations  
Habitat  
Multispecies fisheries  
Species diversity

Ecological tourism  
USE: **Ecotourism**

**Ecological zonation**  
UF: Intertidal zonation  
Littoral zonation  
Zonation (ecological)  
RT: Benthos  
Ecoclines  
Ecological distribution  
Intertidal environment  
Littoral zone  
Sheltered habitats  
Substrata  
Tides  
Vertical distribution

**Ecologists**  
BT: Scientific personnel  
NT: Freshwater ecologists  
Marine ecologists  
RT: Ecology

**Ecology**  
UF: Aquatic ecology  
Bionomics  
Ecological sciences  
Lake ecology  
NT: Autecology  
Brackishwater ecology  
Ethology  
Freshwater ecology  
Genecology  
Marine ecology  
Palaeoecology  
Parasitology  
Phytosociology  
Planktonology  
Radioecology  
Synecology  
RT: Biofacies  
Biogeography  
Biology  
Ecological balance  
Ecological crisis  
Ecological distribution  
Ecologists  
Ecophysiology  
Ecosystems  
Ecotoxicology  
Environmental conditions  
Phenology  
Photoperiodicity  
Species

Econometric models  
USE: **Economic models**

**Econometrics**  
SN: Statistical analysis of economic data with the aid of electronic computers  
BT: Economics  
RT: Economic analysis  
Linear programming

**Economic analysis**  
UF: Economic evaluations  
BT: Analysis  
RT: Cost analysis  
Econometrics  
Economic benefits  
Economic models  
Evaluation  
Profits  
Return on investment  
Statistical analysis

**Economic benefits**  
RT: Cost-benefit analysis  
Economic analysis  
Economic feasibility  
Poverty alleviation  
Profits

Economic evaluations  
USE: **Economic analysis**

**Economic feasibility**  
SN: Before 1982 search  
FEASIBILITY  
BT: Feasibility  
RT: Cost analysis  
Economic benefits

**Economic models**  
UF: Econometric models  
BT: Mathematical models  
RT: Economic analysis  
Economics  
Private sector

Economic resources  
USE: **Resources**

Economic species  
USE: **Commercial species**

**Economics**  
NT: Bioeconomics  
Econometrics  
Fishery economics  
Globalization  
RT: Commerce  
Economic models  
Livelihoods  
Poverty alleviation  
Trade

**Ecophene**  
SN: A type of individual developing as a result of a physiological, as opposed to genetic, response to habitat factors  
RT: Ecophysiology  
Phenotypes

**Ecophysiology**  
UF: Ecological physiology  
Physiological ecology  
BT: Physiology  
RT: Aestivation

Biological resistance  
Ecology  
Ecophene  
Environmental effects  
Photoperiods  
Survival  
Tolerance

**Ecosystem approach**  
SN: The integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way  
RT: Coastal zone management  
Conservation  
Ecosystem management  
Ecosystems  
Environment management  
Environmental monitoring  
Fishery management  
Resource management  
Sustainable development

**Ecosystem disturbance**  
UF: Disturbance (ecosystem)  
NT: Fishing down aquatic food webs  
RT: Ecosystems  
Vulnerable marine ecosystems

Ecosystem diversity  
USE: **Biodiversity**

**Ecosystem management**  
SN: Management of aquatic ecosystems  
BT: Management  
NT: Coastal zone management  
River basin management  
RT: Biomanipulation  
Ecological balance  
Ecosystem approach  
Ecosystems  
Environment management  
Environmental restoration  
Vulnerable marine ecosystems

**Ecosystem resilience**  
UF: Resilience (ecosystem)  
RT: Colonization  
Ecosystems

**Ecosystem services**  
SN: The direct and indirect contributions of ecosystems to human well-being  
RT: Biodiversity  
Carbon sinks  
Climatology  
Human food  
Oxygenation  
Phytoplankton  
Water purification

Ecosystem stability  
USE: **Ecological balance**

**Ecosystems**

NT: Vulnerable marine ecosystems  
 RT: Aquatic communities  
 Aquatic environment  
 Bioenergetics  
 Biological production  
 Ecological balance  
 Ecological distribution  
 Ecology  
 Ecosystem approach  
 Ecosystem disturbance  
 Ecosystem management  
 Ecosystem resilience  
 Food webs  
 Niches  
 Trophic levels  
 Trophic structure

**Ecotourism**

UF: Ecological tourism  
 Ecotravel  
 Environmental tourism  
 Green tourism  
 Nature tourism  
 BT: Tourism

**Ecotoxicology**

BT: Toxicology  
 RT: Ecology  
 Nanoparticles

Ecotravel

USE: **Ecotourism**

**Ecotypes**

SN: A biotype resulting from selection in a particular habitat  
 UF: Habitat types  
 RT: Adaptations  
 Biological speciation  
 Habitat  
 Typology

**Ectocrines**

RT: Hormones  
 Metabolites

Ectoderm

USE: **Skin**

**Ectoparasites**

BT: Parasites  
 RT: Ectoparasitism  
 Epizootics  
 Lamprey attachment

**Ectoparasitism**

BT: Parasitism  
 RT: Ectoparasites

Ectosymbionts

USE: **Symbionts**

**Eddies**

BT: Water motion

NT: Lee eddies  
 Oceanic eddies

Eddies (lee)

USE: **Lee eddies**

Eddies (oceanic)

USE: **Oceanic eddies**

Eddy coefficients

USE: **Exchange coefficients**

**Eddy conduction**

UF: Eddy heat conduction  
 Eddy heat flux  
 Turbulent heat transfer  
 BT: Heat transfer  
 RT: Eddy conductivity  
 Heat conduction  
 Turbulent diffusion

Eddy conduction coefficient

USE: **Eddy conductivity**

**Eddy conductivity**

UF: Eddy conduction coefficient  
 BT: Eddy diffusivity  
 RT: Eddy conduction  
 Thermal conductivity  
 Turbulence

Eddy diffusion

USE: **Turbulent diffusion**

Eddy diffusion coefficient

USE: **Eddy diffusivity**

**Eddy diffusivity**

UF: Eddy diffusion coefficient  
 NT: Eddy conductivity  
 RT: Diffusion coefficients  
 Thermal diffusivity  
 Turbulence  
 Turbulent diffusion

**Eddy flux**

UF: Turbulent exchange  
 RT: Exchange coefficients  
 Mixing length

Eddy heat conduction

USE: **Eddy conduction**

Eddy heat flux

USE: **Eddy conduction**

**Eddy kinetic energy**

UF: Turbulent energy  
 BT: Kinetic energy  
 RT: Mesoscale eddies

Eddy stresses

USE: **Reynolds stresses**

**Eddy viscosity**

UF: Kinematic eddy viscosity

BT: Viscosity

RT: Dynamic viscosity  
 Eddy viscosity coefficient  
 Mixing length  
 Momentum stresses  
 Reynolds stresses  
 Turbulence  
 Turbulent diffusion  
 Turbulent flow

**Eddy viscosity coefficient**

UF: Coefficient of eddy viscosity  
 BT: Viscosity coefficients  
 RT: Eddy viscosity

**Edge waves**

BT: Trapped waves  
 RT: Beach cusps  
 Rip currents  
 Tsunamis  
 Waves on beaches

Edible crab fisheries

USE: **Crab fisheries**

Edible fish

USE: **Food fish**

**Education**

UF: Fishery education  
 Teaching  
 RT: Capacity building  
 Curricula  
 Education establishments  
 Extension activities  
 Fellowships  
 Indigenous knowledge  
 Online instruction  
 Training

**Education establishments**

UF: Schools (educational)  
 Universities  
 BT: Organizations  
 RT: Education  
 Research institutions  
 Training centres

**Eel culture**

SN: Before 2016 search FISH CULTURE + Species name  
 BT: Fish culture

EEZ

USE: **Exclusive economic zone**

Effect traits

USE: **Biological traits**

Efferent nerves

USE: **Nerves**

**Efficiency**

RT: Calibration  
 Performance assessment



Efficiency (ecological)  
USE: **Ecological efficiency**

**Effluents**

BT: Wastes  
NT: Aquaculture effluents  
RT: Influent  
Nonpoint pollution sources  
Outfalls  
Point source pollution  
Sewage  
Waste water  
Wastewater treatment  
White water effluents

Effluents (aquaculture)  
USE: **Aquaculture effluents**

**Egg counters**

BT: Counters  
RT: Eggs

Egg production  
USE: **Fecundity**

**Eggs**

UF: Ova  
BT: Sexual cells  
NT: Bird eggs  
Brine shrimp eggs  
Fish eggs  
Insect eggs  
Oocytes  
Resting eggs  
RT: Egg counters  
Embryology  
Embryonic development  
Embryos  
Fecundity  
Gynogenesis  
Hatching  
Incubation  
Oogenesis  
Oviparity  
Oviposition  
Ovoviviparity  
Ovulation  
Vitellogenesis  
Yolk

EH  
USE: **Redox potential**

**EIA**

USE: Environmental assessment  
OR  
Enzyme-linked immunosorbent assay

**Eigenfunctions**

SN: Solutions of differential equations satisfying specific conditions  
RT: Differential equations  
Mathematics

Ekman boundary layers  
USE: **Ekman layers**

Ekman circulation  
USE: **Ekman transport**

Ekman current  
USE: **Ekman transport**

**Ekman layers**

UF: Ekman boundary layers  
BT: Boundary layers  
NT: Bottom Ekman layer  
Surface Ekman layer  
RT: Ekman spiral  
Vertical shear

**Ekman pumping**

UF: Ekman suction  
RT: Upwelling

**Ekman spiral**

BT: Hodographs  
RT: Coriolis parameters  
Ekman layers  
Wind-driven currents

Ekman suction  
USE: **Ekman pumping**

**Ekman transport**

UF: Ekman circulation  
Ekman current  
BT: Transport  
Upwelling  
RT: Eastern boundary currents  
El Nino phenomena

**El Nino phenomena**

RT: Coastal upwelling  
Disasters  
Ekman transport  
Southern oscillation  
Teleconnections

**Elastic constants**

BT: Constants  
NT: Bulk modulus  
Shear modulus  
RT: Elasticity  
Poisson's ratio  
Soil mechanics

**Elastic waves**

UF: Pressure waves  
Waves (elastic)  
NT: Seismic waves  
Sound waves  
RT: Vibration

**Elasticity**

UF: Anelasticity  
BT: Mechanical properties  
RT: Bulk modulus  
Compressibility  
Deformation  
Elastic constants  
Flexibility  
Plasticity

Poisson's ratio  
Rock mechanics  
Shear modulus  
Soil mechanics  
Strain  
Stress (mechanics)  
Tensile strength

**Electric arc welding**

BT: Welding  
RT: Electrodes

Electric batteries  
USE: **Batteries**

**Electric cables**

BT: Cables  
NT: Coaxial cables  
Power cables  
Submarine cables  
RT: Connectors  
Electrical equipment  
Riser cables  
Umbilicals

**Electric charge**

BT: Electricity  
RT: Bubble bursting  
Capacitance  
Electrical properties

**Electric currents**

UF: Currents (electric)  
NT: Impressed currents  
Telluric currents  
RT: Current density  
Electric fields  
Electricity

**Electric fences**

BT: Guiding devices  
RT: Electric fishing  
Electric stimuli  
Electrified gear

**Electric fields**

BT: Fields  
RT: Electric currents  
Electric potential  
Electrical conductivity  
Electromagnetic radiation

**Electric fishing**

UF: Electro-fishing  
BT: Catching methods  
RT: Electric fences  
Electric stimuli  
Electrified gear  
Pump fishing  
Stupefying methods

**Electric generators**

UF: Generators  
BT: Electric power sources  
RT: Electrical equipment  
Motors

**Electric impedance**

BT: Electrical properties  
Impedance  
RT: Capacitance  
Electrical conductivity  
Electrical resistivity

**Electric organs**

UF: Electoreceptors  
RT: Bioelectricity  
Electric stimuli  
Stinging organs

**Electric potential**

UF: Electric potential difference  
RT: Current velocity  
Electric fields  
Electrical properties  
Electrodes  
Electromagnetism  
GEK

Electric potential difference

USE: **Electric potential**

Electric power plants

USE: **Power plants**

**Electric power sources**

UF: Power supplies  
Power systems  
NT: Batteries  
Electric generators  
Solar cells  
Wave power devices  
RT: Electricity  
Energy resources  
Motors  
Power consumption  
Power plants

Electric shocking gear

USE: **Electrified gear**

**Electric stimuli**

BT: Stimuli  
RT: Electric fences  
Electric fishing  
Electric organs  
Electrophysiology

Electrical conductance

USE: **Electrical conductivity**

**Electrical conductivity**

SN: Before 1982 search also  
ELECTRICAL  
CONDUCTANCE  
UF: Conductance (electrical)  
Conductivity (electrical)  
Electrical conductance  
BT: Electrical properties  
RT: Conductivity ratio  
Conductivity sensors  
CTD profilers  
Electric fields  
Electric impedance

Electrical resistivity  
Refractive index

Electrical conductivity sensors  
USE: **Conductivity sensors**

**Electrical engineering**

BT: Engineering

**Electrical equipment**

BT: Equipment  
NT: Electroacoustic devices  
Electrodes  
Electronic equipment  
RT: Batteries  
Electric cables  
Electric generators

**Electrical exploration**

BT: Geophysical exploration  
RT: Coast effect  
Electrical resistivity

**Electrical insulation**

BT: Insulating materials

**Electrical properties**

BT: Physical properties  
NT: Capacitance  
Dielectric constant  
Electric impedance  
Electrical conductivity  
Electrical resistivity  
RT: Capillarity  
Chemical properties  
Electric charge  
Electric potential  
Electricity  
Electroanalysis  
Electrochemistry  
Electrodialysis  
Electrolysis  
Electrophoresis  
Luminescence  
Thermodynamic properties

**Electrical resistivity**

UF: Resistivity (electrical)  
BT: Electrical properties  
RT: Electric impedance  
Electrical conductivity  
Electrical exploration  
Magnetotelluric methods  
Permeability  
Porosity

**Electricity**

NT: Atmospheric electricity  
Electric charge  
RT: Electric currents  
Electric power sources  
Electrical properties  
Electromagnetism  
Power consumption

**Electrified gear**

UF: Electric shocking gear

Electrified nets  
BT: Fishing gear  
RT: Electric fences  
Electric fishing  
Stupefying methods

Electrified nets

USE: **Electrified gear**

Electro-fishing

USE: **Electric fishing**

**Electroacoustic devices**

BT: Acoustic equipment  
Electrical equipment  
RT: Acoustic transducers  
Electronic equipment  
Pingers

Electroanaesthesia

USE: **Anaesthesia**

**Electroanalysis**

UF: Electrolytic analysis  
BT: Analysis  
RT: Chemical elements  
Electrical properties  
Electrochemistry  
Polarography  
Voltammetry

**Electrochemistry**

BT: Chemistry  
RT: Chemical properties  
Chemical reactions  
Corrosion  
Electrical properties  
Electroanalysis  
Electrodialysis  
Electrolysis  
Electrophoresis

**Electrodes**

BT: Electrical equipment  
NT: Anodes  
Cathodes  
RT: Electric arc welding  
Electric potential

**Electrodialysis**

BT: Dialysis  
RT: Desalination  
Electrical properties  
Electrochemistry  
Electrophoresis

**Electrolysis**

BT: Chemical reactions  
RT: Analysis  
Anions  
Cations  
Chemical degradation  
Corrosion  
Electrical properties  
Electrochemistry  
Electrolytes  
Ion transport

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- Oxidation  
Polarization  
Polarography  
Voltammetry
- Electrolytes**  
RT: Electrolysis
- Electrolytic analysis  
USE: **Electroanalysis**
- Electromagnetic exploration**  
UF: Electromagnetic survey  
BT: Geophysical exploration  
RT: Magnetotelluric methods
- Electromagnetic power**  
BT: Power from the sea  
RT: Batteries  
Electromagnetism
- Electromagnetic radiation**  
UF: Electromagnetic waves  
Waves (electromagnetic)  
BT: Radiations  
NT: Gamma radiation  
Infrared radiation  
Light  
Microwaves  
Radio waves  
Solar radiation  
Terrestrial radiation  
Ultraviolet radiation  
X-rays  
RT: Electric fields  
Electromagnetism  
Geosensing  
Lasers  
Luminescence  
Magnetic fields  
Nuclear radiations  
Polarization  
Radar imagery  
Radiative transfer  
Radiometers  
Remote sensing  
Thermal radiation
- Electromagnetic survey  
USE: **Electromagnetic exploration**
- Electromagnetic waves  
USE: **Electromagnetic radiation**
- Electromagnetism**  
BT: Magnetism  
RT: Electric potential  
Electricity  
Electromagnetic power  
Electromagnetic radiation
- Electron microscopes  
USE: **Electron microscopy**
- Electron microscopy**  
UF: Electron microscopes
- Scanning electron microscopy  
BT: Microscopy  
RT: Ultrastructure
- Electronic equipment**  
BT: Electrical equipment  
NT: Calculators  
Computers  
Robots  
RT: Acoustic equipment  
Airborne equipment  
Electroacoustic devices  
Electronic noise  
Recording equipment  
Remote sensing equipment  
Satellites  
Sensors  
Sonar  
Test equipment  
Thermistors  
Thermocouples  
Transponders
- Electronic learning  
USE: **Online instruction**
- Electronic models  
USE: **Analog models**
- Electronic noise**  
UF: Noise (electronics)  
RT: Electronic equipment  
Signal-to-noise ratio
- Electrophoresis**  
UF: Electrophoretic analysis  
BT: Analytical techniques  
RT: Biochemical analysis  
Colloids  
Electrical properties  
Electrochemistry  
Electrodialysis  
Protein fingerprinting  
Separation  
Serological studies  
Serological taxonomy
- Electrophoretic analysis  
USE: **Electrophoresis**
- Electrophoretic marking  
USE: **Marking**
- Electrophysiology**  
BT: Physiology  
RT: Electric stimuli
- Electroreceptors  
USE: **Electric organs**
- Elements  
USE: **Chemical elements**
- Elements (chemical)  
USE: **Chemical elements**
- Elisa
- USE: **Enzyme-linked immunosorbent assay**
- Elvers  
USE: **Juveniles**
- Embankments**  
UF: Dikes (embankments)  
BT: Banks (topography)  
NT: Levees  
RT: Flood control  
Polders  
Semi-enclosed seas
- Embrittlement**  
RT: Brittleness  
Cracking (corrosion)  
Deterioration  
Stress corrosion
- Embryology**  
BT: Biology  
RT: Eggs  
Embryonic development  
Embryos  
Morphogenesis  
Ontogeny  
Organogenesis  
Vitellogenesis  
Zoology
- Embryonic development**  
BT: Biological development  
RT: Eggs  
Embryology  
Embryos  
Morphogenesis  
Vitellogenesis
- Embryos**  
BT: Developmental stages  
NT: Foetus  
RT: Eggs  
Embryology  
Embryonic development  
Larvae
- Emergence**  
SN: Appearance of the imago from the pupa-case or pupal integument  
RT: Developmental stages  
Nymphs
- Emergencies**  
RT: Accidents  
Disasters  
Evacuation
- Emergency vessels**  
UF: Standby vessels  
RT: Fire fighting  
Search and rescue  
Support ships  
Surface craft
- Emergent coasts  
USE: **Emergent shorelines**

**Emergent shorelines**

UF: Emergent coasts  
 BT: Coasts  
 RT: Deglaciation  
 Epeirogeny  
 Progradation  
 Raised beaches  
 Regressions  
 Submerged shorelines  
 Uplift

**Emergent vegetation**

RT: Aquatic plants  
 Vegetation cover

**Emission spectroscopy**

BT: Spectroscopic techniques

**Emissivity**

RT: Absorption coefficient  
 Optical properties  
 Radiance  
 Surface properties

Employees

USE: **Personnel**

**Emulsions**

RT: Colloids  
 Oil in water content  
 Solutions

**Enclosures**

BT: Barrages  
 RT: Fish ponds

Encrustations

USE: **Concretions**

**Encyclopaedias**

UF: Encyclopedias  
 BT: Documents

Encyclopedias

USE: **Encyclopaedias**

**Encystment**

SN: The formation by an organism of a protective capsule surrounding itself  
 BT: Biological phenomena  
 RT: Cysts  
 Defence mechanisms  
 Spores

Endangered organisms

USE: **Rare species**

Endangered species

USE: **Rare species**

**Endemic species**

SN: A species confined naturally to a certain limited area or region

BT: Species

RT: Biogeography  
 Ecological distribution  
 Endemism  
 Geographical distribution  
 Introduced species  
 Migratory species

Endemicity

USE: **Endemism**

**Endemism**

UF: Endemicity  
 RT: Biogeography  
 Endemic species  
 Geographical distribution

**Endocrine disruptors**

SN: A synthetic chemical that when absorbed into an organism either mimics or blocks hormones and disrupts the normal functions of the organism. Known human endocrine disruptors include but are not limited to: dioxin, PCBs, DDT, and some other pesticides.  
 BT: Chemical pollutants

**Endocrine glands**

UF: Ductless glands  
 Endocrine systems  
 BT: Glands  
 NT: Adrenal glands  
 Gonads  
 Pituitary gland  
 Thymus  
 Thyroid  
 RT: Endocrinology  
 Hormones

Endocrine systems

USE: **Endocrine glands**

**Endocrinology**

BT: Physiology  
 RT: Endocrine glands  
 Enzymes  
 Hormones  
 Metabolism

Endofauna

USE: **Burrowing organisms**

Endogenous rhythms

USE: **Biological rhythms**

**Endoparasites**

BT: Parasites  
 RT: Endoparasitism  
 Phagocytosis  
 Toxicity

**Endoparasitism**

BT: Parasitism  
 RT: Endoparasites  
 Phagocytosis

**Endoskeleton**

BT: Skeleton  
 NT: Bones  
 RT: Otoliths  
 Vertebrae counts

Endosymbionts

USE: **Symbionts**

Endothelium

USE: **Epithelia**

**Endotoxins**

SN: Poisonous substances produced and retained within a cell, and released only after death of the cell  
 BT: Biological poisons  
 RT: Bacteria  
 Bacterial diseases  
 Bacteriology

**Energy**

SN: Use does not include energy resources  
 NT: Geothermal energy  
 Heat  
 Kinetic energy  
 Nuclear energy  
 Potential energy  
 Wave energy  
 RT: Conservation of energy  
 Energy balance  
 Energy budget  
 Energy flow  
 Energy resources  
 Free energy

**Energy balance**

RT: Energy  
 Energy budget  
 Energy flow

**Energy budget**

NT: Heat budget  
 RT: Bioenergetics  
 Calorimetry  
 Cycles  
 Ecological efficiency  
 Energy  
 Energy balance  
 Energy dissipation  
 Energy flow  
 Entropy  
 Hydrologic cycle  
 Interface phenomena  
 Nutrients (mineral)

**Energy dissipation**

BT: Energy transfer  
 NT: Wave dissipation  
 RT: Energy budget  
 Friction

**Energy flow**

RT: Energy

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Energy balance  
Energy budget  
Food webs  
Metabolism  
Solar radiation  
Trophic levels  
Trophodynamic cycle

Energy flux  
USE: **Energy transfer**

### Energy resources

UF: Energy sources  
BT: Natural resources  
NT: Geothermal power  
Hydroelectric power  
Power from the sea  
Solar power  
Wind power  
RT: Electric power sources  
Energy  
Fossil fuels  
Green energy  
Oil reserves  
Wind farms

Energy sources  
USE: **Energy resources**

### Energy spectra

UF: Power spectra  
BT: Spectra  
RT: Directional spectra  
Frequency spectra  
Water currents  
Water waves

### Energy transfer

UF: Energy flux  
Transfer of properties  
NT: Energy dissipation  
Heat transfer  
Radiative transfer  
RT: Air-water exchanges  
Air-water interface  
Baroclinic instability  
Barotropic instability  
Mass transfer  
Moisture transfer  
Momentum transfer  
Wave energy  
Wave generation  
Wave interactions

Enforcement  
USE: **Surveillance and enforcement**

### Engineering

SN: Use of a more specific term is recommended  
NT: Aquaculture engineering  
Chemical engineering  
Civil engineering  
Coastal engineering  
Electrical engineering  
Fishery engineering

Hydraulic engineering  
Offshore engineering  
Petroleum engineering  
River engineering  
Sanitary engineering  
Structural engineering  
RT: Design  
Engineering drawings  
Engineers  
Technology

### Engineering drawings

UF: Blueprints  
BT: Graphics  
RT: Design  
Engineering

### Engineers

BT: Experts  
RT: Engineering

### Engines

USE: **Motors**

### Enmeshing nets

USE: **Gillnets**

### Enstrophy

SN: Total squared vorticity  
BT: Vorticity

### Entanglement

NT: Bird entanglement  
Fish entanglement  
Mammal entanglement  
Turtle entanglement

### Entangling nets

UF: Trammels  
BT: Fishing nets  
RT: Gillnets

### Enteric redmouth

USE: **Redmouth disease**

### Enthalpy

BT: Thermodynamic properties  
NT: Sublimation heat  
Vaporization heat  
RT: Conservative properties  
Entropy  
Free energy  
Specific heat  
Thermodynamics

### Entomologists

BT: Zoologists  
RT: Entomology  
Taxonomists

### Entomology

BT: Invertebrate zoology  
RT: Aquatic insects  
Entomologists

### Entrainment

SN: Intaking of free-floating

organisms from surrounding waters through power plant screens. For entrainment as a hydrodynamic process use **TURBULENT ENTRAINMENT**  
UF: Plankton entrainment  
Power plant entrainment  
RT: Cooling water  
Impingement  
Turbulent entrainment

### Entropy

BT: Thermodynamic properties  
RT: Energy budget  
Enthalpy  
Heat transfer  
Thermodynamics

### Environment degradation

USE: **Environmental degradation**

### Environment management

SN: Management of the aquatic environment  
UF: Environmental planning  
BT: Management  
RT: Aquatic environment  
Ecosystem approach  
Ecosystem management  
Environmental legislation  
Environmental monitoring  
Environmental restoration  
Environmental surveys  
Land management  
Nature conservation  
Precautionary principle  
Resource conservation  
Resource management  
Spatial planning  
Stewardship  
Visual impact  
Waste treatment

### Environmental assessment

UF: EIA  
Environmental Impact Assessment  
RT: Environmental conditions  
Environmental effects  
Environmental factors  
Environmental impact  
Environmental monitoring  
Environmental surveys  
Swept area  
Visual impact

### Environmental charts

SN: Distributional charts of physico-chemical factors in aquatic environment  
BT: Maps  
RT: Environmental conditions  
Environmental factors  
Environmental surveys  
Environments

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Hydrographic charts  
 Isohalines  
 Isotherms

Environmental chemistry  
 USE: **Geochemistry**

**Environmental conditions**  
 RT: Ecology  
 Environmental assessment  
 Environmental charts  
 Environmental diseases  
 Environmental effects  
 Environmental factors  
 Environmental surveys  
 Environments  
 Limiting factors  
 Sea state  
 Wave climate

Environmental contamination  
 USE: **Pollution**

**Environmental degradation**  
 SN: Degradation of the aquatic environment as a result of natural events or caused by man's activities.  
 UF: Environment degradation  
 Habitat degradation  
 BT: Degradation  
 NT: Habitat loss  
 RT: Aquatic environment  
 Environmental impact  
 Man-induced effects  
 Pollution effects

**Environmental diseases**  
 SN: Diseases associated with physical or physico-chemical abnormalities of water  
 UF: Abiotic diseases  
 BT: Diseases  
 RT: Animal diseases  
 Environmental conditions  
 Husbandry diseases  
 Sunburn

**Environmental effects**  
 SN: Effects of environmental conditions on living organisms and fisheries  
 NT: Culture effects  
 Gravity effects  
 Group effects  
 Light effects  
 pH effects  
 Pressure effects  
 Salinity effects  
 Temperature effects  
 Tidal effects  
 RT: Aestivation  
 Biological production  
 Biological resistance  
 Biological traits  
 Disease resistance  
 Drought resistance

Ecological aggregations  
 Ecological crisis  
 Ecological distribution  
 Ecophysiology  
 Environmental assessment  
 Environmental conditions  
 Environmental factors  
 Environments  
 Evapotranspiration  
 Hibernation  
 Natural selection  
 Phenotypes  
 Phenotypic variations  
 Resting stages  
 Synecology  
 Tolerance  
 Vertical migrations  
 Weathering

**Environmental factors**  
 NT: Abiotic factors  
 Anthropogenic factors  
 Biotic factors  
 RT: Coral bleaching  
 Discontinuity layers  
 Environmental assessment  
 Environmental charts  
 Environmental conditions  
 Environmental effects  
 Environmental surveys  
 Environments  
 Food availability  
 Habitat selection  
 Limiting factors  
 Marine ecology  
 Seismic activity  
 Thermocline  
 Water properties

**Environmental impact**  
 SN: The change in well-being of the ecosystems, that results from a process set in motion or accelerated by man's actions  
 RT: Acid mine drainage  
 Environmental assessment  
 Environmental degradation  
 Environmental legislation  
 Globalization  
 Hazard assessment  
 Man-induced effects  
 Pollution effects  
 Soil salinization  
 Water salinization

Environmental Impact Assessment  
 USE: **Environmental assessment**

**Environmental legislation**  
 SN: Legislation for protection of aquatic environment and organisms  
 BT: Legislation  
 NT: Pollution legislation  
 RT: Conservation  
 Environment management  
 Environmental impact

Environmental protection  
 Law of the sea

**Environmental monitoring**  
 BT: Monitoring  
 NT: Pollution monitoring  
 RT: Ecosystem approach  
 Environment management  
 Environmental assessment  
 Environmental protection  
 Ocean colour  
 Warning services

Environmental planning  
 USE: **Environment management**

Environmental pollution  
 USE: **Pollution**

**Environmental protection**  
 BT: Protection  
 NT: Shore protection  
 RT: Bioremediation  
 Conservation  
 Environmental legislation  
 Environmental monitoring  
 Pollution control  
 Spatial planning

Environmental rehabilitation  
 USE: **Environmental restoration**

Environmental remediation  
 USE: **Environmental restoration**

**Environmental restoration**  
 UF: Ecological restoration  
 Environmental rehabilitation  
 Environmental remediation  
 BT: Restoration  
 NT: Coral reef restoration  
 Lake restoration  
 Mangrove restoration  
 River restoration  
 Wetland restoration  
 RT: Ecosystem management  
 Environment management  
 Land management

**Environmental surveys**  
 BT: Surveys  
 NT: Limnological surveys  
 Oceanographic surveys  
 Pollution surveys  
 RT: Aquatic environment  
 Biological surveys  
 Environment management  
 Environmental assessment  
 Environmental charts  
 Environmental conditions  
 Environmental factors

Environmental tourism  
 USE: **Ecotourism**

**Environments**

SN: Use of a more specific term is recommended  
 NT: Aquatic environment  
 Palaeoenvironments  
 Sedimentary environments  
 Tropical environment  
 RT: Environmental charts  
 Environmental conditions  
 Environmental effects  
 Environmental factors

**Enzymatic activity**

UF: Enzyme activity  
 Enzymic activity  
 RT: Biochemical substrates  
 Biosynthesis  
 Catalysts  
 Digestion  
 Enzymes  
 Metabolism

Enzymatic hydrolysis  
 USE: **Enzymolysis**

**Enzyme-linked immunosorbent assay**

SN: A biochemical technique that uses antibodies and colour change to identify a substance.  
 Before 2016 also search Elisa  
 UF: EIA  
 Elisa  
 Enzyme immunoassay  
 BT: Immunoassays  
 RT: Analytical techniques  
 Antigens  
 Biochemistry

Enzyme activity  
 USE: **Enzymatic activity**

Enzyme immunoassay  
 USE: **Enzyme-linked immunosorbent assay**

**Enzyme inhibitors**

SN: Before 1982 search INHIBITORS  
 BT: Inhibitors  
 NT: Cholinesterase inhibitors  
 RT: Enzymes  
 Metabolism

Enzyme substrate  
 USE: **Biochemical substrates**

**Enzymes**

UF: Cellulase  
 Heteroenzymes  
 Isodynamic enzymes  
 Ligases  
 Permeases  
 Proteinase  
 NT: Allozymes  
 Carbonic anhydrase  
 Coenzymes

Dehydrogenases  
 Hydrolases  
 Isoenzymes  
 Isomerases  
 Lyases  
 Oxidoreductases  
 Phosphatase  
 Transferases  
 RT: Autolysis  
 Biochemical substrates  
 Catalysts  
 Colloids  
 Endocrinology  
 Enzymatic activity  
 Enzyme inhibitors  
 Enzymolysis  
 Fermentation  
 Hormones  
 Proteins

Enzymic activity  
 USE: **Enzymatic activity**

**Enzymolysis**

SN: Hydrolysis by means of enzymes  
 UF: Enzymatic hydrolysis  
 BT: Hydrolysis  
 RT: Enzymes

**Eocene**

SN: Before 1982 search EOCENE  
 EPOCH  
 BT: Palaeogene

**Eolian deposits**

SN: Consolidated wind-blown deposits  
 UF: Aeolian deposits  
 RT: Allochthonous deposits  
 Clastics  
 Eolian processes  
 Eolian transport  
 Sabkhas  
 Sandstone  
 Terrigenous sediments  
 Volcanic ash

**Eolian dust**

SN: Restrict use to dust of terrigenous origin found in sediments, suspended particulate matter or at sea surface  
 UF: Aeolian dust  
 BT: Dust  
 RT: Cosmic dust  
 Eolian processes  
 Eolian transport  
 Palaeoclimatology  
 Suspended particulate matter  
 Terrigenous sediments  
 Volcanic ash

**Eolian processes**

UF: Aeolian processes  
 RT: Eolian deposits

Eolian dust  
 Eolian transport  
 Winds

**Eolian transport**

UF: Aeolian transport  
 BT: Sediment transport  
 RT: Dust clouds  
 Eolian deposits  
 Eolian dust  
 Eolian processes  
 Volcanic ash  
 Wind abrasion  
 Winds

Eotvos correction

USE: **Gravity corrections**

**Epeirogeny**

SN: Movements which affect large tracts of the earth's crust  
 UF: Bathogenesis  
 Vertical movements (geology)  
 BT: Tectonics  
 NT: Subsidence  
 Uplift  
 RT: Continents  
 Crustal adjustment  
 Crustal shortening  
 Earth crust  
 Emergent shorelines  
 Eustatic changes  
 Ocean basins  
 Orogeny  
 Submerged shorelines  
 Submergence  
 Vertical tectonics

**Ephemeral lakes**

SN: An ephemeral lake is one that only exists for a short period following precipitation or snowmelt. It is not the same as an intermittent or seasonal lake, which exists for longer periods, but is not perennial. Before 2016 search TEMPORARY PONDS  
 BT: Ephemeral water bodies  
 NT: Playas  
 RT: Ephemeral springs  
 Ephemeral streams  
 Intermittent lakes  
 Lakes  
 Temporary ponds  
 Temporary water bodies

**Ephemeral springs**

SN: An ephemeral spring is one that only exists for a short period following precipitation or snowmelt. It is not the same as an intermittent or seasonal spring, which exists for longer periods, but is not perennial  
 BT: Ephemeral water bodies  
 RT: Ephemeral lakes

Ephemeral streams  
 Intermittent springs  
 Temporary ponds  
 Temporary water bodies  
 Water springs

**Ephemeral streams**

SN: An ephemeral stream is one that only exists for a short period following precipitation or snowmelt. It is not the same as an intermittent or seasonal stream, which exists for longer periods, but is not perennial  
 BT: Ephemeral water bodies  
 RT: Ephemeral lakes  
 Ephemeral springs  
 Intermittent rivers  
 Rivers  
 Temporary ponds  
 Temporary water bodies

**Ephemeral water bodies**

SN: An ephemeral waterbody is a wetland, spring, stream, river, pond or lake that only exists for a short period following precipitation or snowmelt. They are not the same as intermittent or seasonal water bodies, which exist for longer periods, but not all year round  
 BT: Temporary water bodies  
 NT: Ephemeral lakes  
 Ephemeral springs  
 Ephemeral streams  
 Temporary ponds  
 RT: Inland waters  
 Intermittent water bodies  
 Water bodies

Ephemeris  
 USE: **Nautical almanacs**

Epibenthos  
 USE: **Benthos**

**Epibionts**

UF: Epibiota  
 NT: Epiphytes  
 Epizoites  
 RT: Epibiosis

**Epibiosis**

BT: Interspecific relationships  
 RT: Epibionts  
 Epiphytes  
 Epizoites  
 Symbiosis

Epibiota  
 USE: **Epibionts**

**Epicentres**

UF: Seismic epicentres  
 RT: Earthquakes  
 Seismology

**Epidemics**

RT: Epidemiology  
 Infectious diseases  
 Mortality causes  
 Pathology  
 Public health  
 Quarantine regulations

**Epidemiology**

RT: Bacteriology  
 Disease control  
 Epidemics  
 Infectious diseases  
 Parasitology

Epidermis

USE: **Skin**

**Epilimnion**

UF: Upper layers (lakes)  
 RT: Hypolimnion  
 Metalimnion  
 Surface layers  
 Surface water  
 Thermal stratification  
 Thermocline  
 Water column

**Epipelagic zone**

SN: Waters above 200 m depth  
 UF: Photic environment  
 BT: Oceanic province  
 RT: Euphotic zone  
 Littoral zone  
 Neritic province

**Epiphytes**

BT: Epibionts  
 RT: Epibiosis  
 Periphyton  
 Symbionts

Epipsammic species  
 USE: **Epipsammon**

**Epipsammon**

SN: Organisms living attached to sand grain  
 UF: Epipsammic species  
 BT: Aquatic communities  
 RT: Microorganisms  
 Psammon  
 Sand

**Epithelia**

UF: Endothelium  
 Epithelium  
 BT: Tissues  
 RT: Integumentary system  
 Skin

Epithelium  
 USE: **Epithelia**

**Epizoites**

BT: Epibionts

RT: Commensalism  
 Ectoparasites  
 Epibiosis

**Epontic environment**

UF: Under-ice environment  
 BT: Aquatic environment  
 RT: Epontic organisms

**Epontic organisms**

UF: Under-ice organisms  
 RT: Epontic environment

**Epoxy resins**

SN: Synthetic resins used for protective coatings and adhesives  
 RT: Adhesives  
 Plastic coatings

**Equation of continuity**

UF: Conservation of volume  
 Continuity equation  
 BT: Equations  
 RT: Conservation equations  
 Conservation of mass  
 Equations of state  
 Fluid dynamics

**Equations**

NT: Conservation equations  
 Differential equations  
 Equation of continuity  
 Equations of motion  
 Equations of state  
 Hydrodynamic equations  
 Integral equations  
 Kortweg Devries equation  
 Laplace equation  
 Morison's equation  
 Navier-Stokes equations  
 Nonlinear equations  
 Poisson's equation  
 Tidal equations  
 RT: Mathematics

**Equations of motion**

UF: Euler equations of motion  
 BT: Equations  
 RT: Hydrostatic equation

**Equations of state**

BT: Equations  
 RT: Equation of continuity  
 Thermodynamics

**Equator**

RT: Latitude

Equatorial calms  
 USE: **Equatorial trough**

**Equatorial circulation**

SN: Before 1982 search  
 EQUATORIAL CURRENTS  
 UF: Equatorial current system  
 Equatorial currents



BT: Ocean circulation  
 RT: Equatorial countercurrents  
 Equatorial dynamics  
 Equatorial undercurrents  
 Equatorial upwelling  
 Monsoon reversal  
 Tropical oceanography

**Equatorial countercurrents**

BT: Countercurrents  
 RT: Equatorial circulation  
 Equatorial dynamics

Equatorial current system  
 USE: **Equatorial circulation**

Equatorial currents  
 USE: **Equatorial circulation**

**Equatorial dynamics**

RT: Beta-plane  
 Dynamical oceanography  
 Equatorial circulation  
 Equatorial countercurrents  
 Equatorial trapped waves  
 Equatorial undercurrents  
 Equatorial upwelling  
 Monsoon reversal  
 Planetary waves  
 Tropical meteorology  
 Tropical oceanography

**Equatorial easterlies**

BT: Trade winds  
 RT: Easterly waves  
 Equatorial waves  
 Equatorial westerlies

**Equatorial trapped waves**

BT: Kelvin waves  
 RT: Equatorial dynamics

**Equatorial trough**

UF: Doldrums  
 Equatorial calms  
 BT: Low pressure troughs  
 RT: Easterly waves  
 Equatorial westerlies  
 Intertropical convergence zone  
 Tropical meteorology

**Equatorial undercurrents**

BT: Undercurrents  
 RT: Equatorial circulation  
 Equatorial dynamics

**Equatorial upwelling**

BT: Upwelling  
 RT: Equatorial circulation  
 Equatorial dynamics

**Equatorial waves**

BT: Water waves  
 RT: Equatorial easterlies

**Equatorial westerlies**

BT: Westerlies

RT: Equatorial easterlies  
 Equatorial trough

**Equilibrium**

NT: Chemical equilibrium  
 Geostrophic equilibrium  
 Thermodynamic equilibrium  
 RT: Diffusion  
 Isostasy  
 Stability  
 Steady state  
 Unsteady state  
 Variability

Equilibrium constants  
 USE: **Chemical equilibrium**

**Equipment**

SN: Only for papers in which the description, use, performance, or fabrication of equipment is the main topic. Use of a more specific term is recommended  
 UF: Plant (equipment)  
 NT: Acoustic equipment  
 Airborne equipment  
 Aquaculture equipment  
 Deck equipment  
 Deicing equipment  
 Detectors  
 Detonators  
 Diving equipment  
 Drilling equipment  
 Electrical equipment  
 Feeding equipment  
 Fishery industry equipment  
 Geological equipment  
 Geophysical equipment  
 Grading equipment  
 Instruments  
 Laboratory equipment  
 Limnological equipment  
 Measuring devices  
 Mining equipment  
 Oceanographic equipment  
 Offshore equipment  
 Photographic equipment  
 Recording equipment  
 Remote sensing equipment  
 Safety devices  
 Salvage equipment  
 Sensors  
 Shipboard equipment  
 Surveying equipment  
 Test equipment  
 Transducers  
 Underwater equipment  
 RT: Calibration  
 Components  
 Machinery  
 Modules  
 Monitoring systems

Equipment catalogues  
 USE: **Catalogues**

**Erbium**

BT: Lanthanides

**Erosion**

UF: Erosion (geology)  
 NT: Bottom erosion  
 Coastal erosion  
 Glacial erosion  
 Scouring  
 Soil erosion  
 Wind erosion  
 RT: Denudation  
 Erosion control  
 Erosion features  
 Sedimentation  
 Slumping  
 Weathering

Erosion (biological)  
 USE: **Bioerosion**

Erosion (geology)  
 USE: **Erosion**

Erosion (thermocline)  
 USE: **Thermocline decay**

**Erosion control**

UF: Erosion prevention  
 Erosion protection  
 BT: Control  
 NT: Pipeline protection  
 RT: Dune stabilization  
 Erosion  
 Flood control  
 Soil conservation

**Erosion features**

UF: Coastal erosion features  
 RT: Deposition features  
 Erosion  
 Erosion surfaces  
 Landforms  
 Sedimentary structures  
 Topographic features

Erosion platforms  
 USE: **Wave-cut platforms**

Erosion prevention  
 USE: **Erosion control**

Erosion protection  
 USE: **Erosion control**

**Erosion surfaces**

UF: Planation surfaces  
 BT: Surfaces  
 RT: Erosion features  
 Wave-cut platforms

Erratics  
 USE: **Glacial erratics**

**Errors**

NT: Analytical errors  
 RT: Approximation  
 Corrections  
 Resolution

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**Erythrocytes**

UF: Red blood cells  
Red blood corpuscles  
BT: Blood cells  
RT: Anaemia  
Erythropoiesis

**Erythropoiesis**

RT: Erythrocytes  
Haematology  
Haemopoiesis

**Erytrophores**

USE: **Chromatophores**

**Escape of water**

USE: **Floods**

**Escapement**

UF: Escapement rate  
RT: Avoidance reactions  
Catchability  
Survival

**Escapement rate**

USE: **Escapement**

**Escarpsments**

UF: Scarps  
BT: Topographic features  
NT: Fault scarps  
Submarine scarps  
RT: Fracture zones  
Median valleys

**Eskers**

RT: Glacial features

**Esophagus**

USE: **Oesophagus**

**Esters**

BT: Organic compounds  
NT: Phthalate esters  
RT: Lipids

**Estimation**

USE: **Approximation**

**Estrogens**

USE: **Oestrogen**

**Estuaries**

BT: Coastal inlets  
NT: Partially-mixed estuaries  
Salt-wedge estuaries  
RT: Bays  
Brackishwater environment  
Estuarine chemistry  
Estuarine dynamics  
Estuarine fronts  
Estuarine sedimentation  
Estuarine tides  
Fjords  
Inlets (waterways)  
River mouth

**Tidal inlets**

**Estuarine aquaculture**

USE: **Brackishwater aquaculture**

**Estuarine chemistry**

RT: Chemical limnology  
Chemical oceanography  
Estuaries

**Estuarine circulation**

USE: **Estuarine dynamics**

**Estuarine crustaceans**

USE: **Brackishwater crustaceans**

**Estuarine dynamics**

SN: Before 1982 search also  
ESTUARINE CIRCULATION  
UF: Estuarine circulation  
BT: Shelf dynamics  
RT: Bay dynamics  
Coastal oceanography  
Dynamical oceanography  
Estuaries  
Estuarine fronts  
Estuarine tides  
Flushing time  
Longitudinal dispersion  
Longshore currents  
Nearshore currents  
Nearshore dynamics  
Salt wedges  
Tidal currents  
Water mixing

**Estuarine environment**

USE: **Brackishwater environment**

**Estuarine fish**

USE: **Brackishwater fish**

**Estuarine fisheries**

SN: Fisheries in estuaries and coastal lagoons  
BT: Fisheries  
RT: Artisanal fisheries  
Artisanal fishing  
Brackishwater fish  
Brackishwater organisms  
Coastal fisheries  
Finfish fisheries  
Marine fisheries  
Oyster fisheries  
River fisheries

**Estuarine fronts**

SN: Formed near river mouths, at the meeting of diluted waters and coastal full salinity waters  
UF: Estuarine interface  
Freshwater-seawater interface  
BT: Coastal fronts  
RT: Estuaries  
Estuarine dynamics  
Oceanic fronts

**River plumes**

Tidal fronts

**Estuarine interface**

USE: **Estuarine fronts**

**Estuarine molluscs**

USE: **Brackishwater molluscs**

**Estuarine organisms**

USE: **Brackishwater organisms**

**Estuarine pollution**

USE: **Brackishwater pollution**

**Estuarine sedimentation**

BT: Sedimentation  
RT: Estuaries  
Intertidal sedimentation  
Sedimentary environments  
Tidal deposits  
Tidal flats

**Estuarine tides**

BT: Tides  
RT: Estuaries  
Estuarine dynamics  
Shallow water tides

**Ethane**

BT: Acyclic hydrocarbons

**Ethene**

UF: Ethylene  
BT: Alkenes

**Ethology**

SN: Study of all aspects of behaviour using biological methods. Before 1982 search  
BEHAVIOUR  
BT: Ecology  
RT: Behaviour

**Ethylene**

USE: **Ethene**

**Ethyne**

UF: Acetylene  
BT: Alkynes

**Etiology**

USE: **Aetiology**

**Euler equations of motion**

USE: **Equations of motion**

**Eulerian current measurement**

SN: Before 1982 search also  
EULERIAN METHODS  
(CURRENT MEASUREMENT)  
UF: Eulerian methods (current measurement)  
BT: Current measurement  
RT: Acoustic current meters

Eulerian methods (current measurement)

USE: **Eulerian current measurement**

**Eulittoral zone**

BT: Littoral zone  
RT: Intertidal environment

**Euphotic zone**

SN: Upper level of ocean region from surface to limit of effective light penetration

UF: Photosynthetic zone

RT: Aphotic zone

Compensation depth

Epipelagic zone

Lentic environment

Light penetration

Marine environment

Mesopelagic zone

**Europium**

BT: Lanthanides

RT: Europium isotopes

Radioisotopes

**Europium isotopes**

BT: Isotopes

RT: Europium

Euryhaline organisms

USE: **Euryhalinity**

Euryhaline species

USE: **Euryhalinity**

**Euryhalinity**

UF: Euryhaline organisms

Euryhaline species

BT: Biological properties

RT: Diadromy

Halophytes

Osmoregulation

Osmotic adaptations

Salinity tolerance

Stenohalinity

Eurythermal organisms

USE: **Eurythermy**

**Eurythermy**

UF: Eurythermal organisms

BT: Biological properties

RT: Stenothermy

Temperature tolerance

Eustasy

USE: **Eustatic changes**

**Eustatic changes**

SN: World-wide sea level changes resulting from change in absolute volume of seawater due mainly to climatic change

UF: Eustasy

BT: Sea level changes

RT: Climatic changes

Epeirogeny

Progradation

Regressions

Retrogradation

Transgressions

Water budget

**Eutrophic lakes**

BT: Lakes

RT: Dystrophic lakes

Eutrophic waters

Eutrophication

Hypereutrophic waters

Hyperoligotrophic waters

Oligotrophic lakes

**Eutrophic waters**

BT: Water

RT: Brackishwater environment

Dystrophic lakes

Eutrophic lakes

Eutrophication

Hypereutrophic waters

Hyperoligotrophic waters

Inland water environment

Marine environment

Mesotrophic waters

Oligotrophic lakes

Oligotrophic waters

Trophic state

**Eutrophication**

SN: The continuing process of increasing fertility of water

RT: Dissolved oxygen

Eutrophic lakes

Eutrophic waters

Hypereutrophic waters

Hyperoligotrophic waters

Hypertrophy

Land-based pollution

Mesotrophic waters

Nutrients (mineral)

Oligotrophic waters

Pollution effects

Primary production

Trophic state

Water properties

Water quality

**Evacuation**

RT: Emergencies

Safety regulations

**Evaluation**

SN: Measuring and/or judging an activity, situation, product, process etc.

UF: Appraisal

Assessments

NT: Performance assessment

Site selection

RT: Acceptability

Certification

Economic analysis

Feasibility

Guidelines

Reliability

**Evaporation**

BT: Vaporization

NT: Evapotranspiration

RT: Ablation

Air-ice interface

Air-water exchanges

Air-water interface

Air temperature

Bowen ratio

Condensation

Dehydration

Desalination

Desiccation

Diffusion

Drying

Heat budget

Heat exchange

Moisture

Moisture transfer

Saturation

Sublimation

Surface water

Transpiration

Water budget

Water properties

Water temperature

Evaporation control

USE: **Evaporation reduction**

Evaporation fog

USE: **Fog**

Evaporation ponds

USE: **Evaporation tanks**

**Evaporation reduction**

UF: Evaporation control

BT: Damping

RT: Water conservation

**Evaporation tanks**

UF: Evaporation ponds

BT: Tanks

**Evaporites**

BT: Authigenic minerals

RT: Anhydrite

Borate minerals

Chemical sediments

Dolomite

Gypsum

Halite

Sabkhas

Salt deposits

Sedimentary rocks

Sodium chloride

**Evapotranspiration**

SN: Loss of water vapour from soil surface and vegetation combined

BT: Evaporation

Transpiration

## ASFA THESAURUS

- RT: Environmental effects  
Water balance  
Water content
- Evisceration  
USE: **Gutting**
- Evolution**  
SN: Use of a more specific term is recommended  
UF: Bioevolution  
Convergent evolution  
Evolution (organisms)  
BT: Biological phenomena  
RT: Biogenesis  
Biogeny  
Biological speciation  
Bioselection  
Cryptic species  
Degeneration  
Genetics  
Morphogenesis  
Mutations  
New genera  
New species  
Phylogenetics  
Protists  
Sibling species
- Evolution (atmosphere)  
USE: **Atmosphere evolution**
- Evolution (organisms)  
USE: **Evolution**
- Evolution (seawater)  
USE: **Seawater evolution**
- Evolutionary retrogression  
USE: **Degeneration**
- Examinations  
USE: **Inspection**
- Excavation underwater**  
UF: Underwater excavation  
RT: Dredging
- Excess capacity**  
SN: Capability to harvest more than is actually being harvested using same stock of inputs (capital)  
BT: Fishing capacity
- Exchange capacity**  
UF: Cation exchange capacity  
RT: Adsorption  
Cations  
Dissolution  
Ions  
Solutions
- Exchange coefficients**  
UF: Austausch coefficients  
Eddy coefficients  
BT: Coefficients
- NT: Diffusion coefficients  
Viscosity coefficients  
RT: Eddy flux  
Mixing length
- Exclusive economic zone**  
UF: EEZ  
Exclusive fishery zone  
Exclusive fishing zone  
Fishing zone  
BT: Ocean space  
RT: Allocation systems  
Coastal states  
Contiguous zones  
Fishery boundaries  
Fishery protection  
Fishery regulations  
Fishing rights  
Foreign fishing  
Illegal fishing  
Shared stocks  
Territorial waters  
Underwater exploitation
- Exclusive fishery zone  
USE: **Exclusive economic zone**
- Exclusive fishing rights  
USE: **Fishing rights**
- Exclusive fishing zone  
USE: **Exclusive economic zone**
- Exclusive rights**  
BT: Rights  
RT: Fishing rights  
Water rights
- Excrements  
USE: **Faeces**
- Excretion**  
NT: Defaecation  
RT: Bioaccumulation  
Excretory organs  
Excretory products  
Gastric evacuation  
Secretion
- Excretory organs**  
BT: Animal organs  
NT: Kidneys  
Spleen  
RT: Bladders  
Excretion  
Excretory products
- Excretory products**  
NT: Faecal pellets  
Faeces  
Urine  
RT: Digestion  
Excretion  
Excretory organs  
Stable isotopes
- Exhibitions**  
UF: Trade shows  
RT: Conferences  
Museums
- Exocrine glands**  
BT: Glands  
NT: Digestive glands  
RT: Mucins  
Mucus
- Exophthalmia**  
SN: Protruding of fish eyeballs as a result of accumulation of fluid or gases at the back of the eye socket  
UF: Popeye  
BT: Symptoms  
RT: Bubble disease
- Exoskeleton**  
BT: Skeleton  
NT: Carapace  
Cuticles  
Scales  
RT: Bony fins  
Chitin  
Shells
- Exotic species  
USE: **Introduced species**
- Expedition reports**  
SN: Final published reports containing results etc. of both cruises and multiship expeditions  
BT: Documents  
RT: Atlases  
Cruise reports  
Expeditions  
Historical account
- Expedition stations  
USE: **Cruise stations**
- Expeditions**  
SN: Use only for international projects involving simultaneous surveys of land, sea and air, e.g. IGY. For oceanographic surveys use narrower term. Before 1982 search also CRUISES  
NT: Cruises  
Multiship expeditions  
RT: Expedition reports  
Exploration  
Surveys
- Expeditions (multiship)  
USE: **Multiship expeditions**
- Expeditions (one vessel)  
USE: **Cruises**
- Expendable bathythermographs  
USE: **XBTs**

## ASFA THESAURUS

Expendable drifting buoys  
USE: **Drifting data buoys**

Expenses  
USE: **Costs**

**Experimental culture**  
UF: Pilot-scale culture  
RT: Aquaculture development  
Cultures  
Experimental research  
Feeding experiments  
Laboratory culture

**Experimental data**  
BT: Data  
RT: Experimental research

Experimental fisheries  
USE: **Experimental fishing**

**Experimental fishing**  
UF: Experimental fisheries  
Test fishing  
BT: Fishing  
RT: Catching methods  
Exploratory fishing  
Fishing technology  
Gear research

Experimental rearing  
USE: **Rearing**

**Experimental research**  
SN: Research done in experimental or laboratory conditions. Used only as a qualifier  
UF: Laboratory research  
Research (experimental)  
BT: Research  
RT: Controlled conditions  
Experimental culture  
Experimental data

Expert systems  
USE: **Artificial intelligence**

**Experts**  
SN: Restricted to professionals involved with aquatic sciences and technology  
UF: Professionals  
Specialists  
BT: Personnel  
NT: Engineers  
Technicians  
RT: Consultants  
Scientific personnel

**Exploitation**  
UF: Commercial exploitation  
Exploitation rate  
Resource exploitation  
NT: Underwater exploitation  
RT: Multiple use of resources  
Resource availability

Resource development

Exploitation (minerals)  
USE: **Mining**

Exploitation (oil and gas)  
USE: **Oil and gas production**

Exploitation rate  
USE: **Exploitation**

**Exploration**  
SN: Use of a specific term is recommended  
NT: Geographical exploration  
Geophysical exploration  
Polar exploration  
Resource exploration  
Underwater exploration  
RT: Expeditions  
Exploration rights  
Surveys

**Exploration rights**  
BT: Rights  
RT: Exploration

**Exploratory behaviour**  
BT: Behaviour

Exploratory drilling  
USE: **Oil and gas exploration**

**Exploratory fishing**  
BT: Fishing  
RT: Experimental fishing  
Stock assessment

Exploratory mining  
USE: **Mineral exploration**

**Explosions**  
NT: Nuclear explosions  
Underwater explosions  
RT: Blasting  
Explosives  
Fire  
Implosions

**Explosive fishing**  
SN: Handling of explosives for capture of aquatic animals, mainly fish  
BT: Catching methods  
RT: Stupefying methods

Explosive welding  
USE: **Welding**

**Explosives**  
BT: Hazardous materials  
NT: Shaped charges  
RT: Blasting  
Detonators  
Explosions

Exports

USE: **Trade**

Exposed environment  
USE: **Exposed habitats**

**Exposed habitats**  
UF: Exposed environment  
BT: Habitat  
RT: Exposure tolerance  
Intertidal environment  
Sheltered habitats

Exposure to air  
USE: **Air exposure**

**Exposure tolerance**  
BT: Tolerance  
RT: Air exposure  
Exposed habitats  
Sheltered habitats

**Extended jurisdiction**  
UF: Extraterritoriality  
BT: Jurisdiction  
RT: Coastal states  
Fishing rights  
Ocean space

**Extension activities**  
SN: Organized communication efforts to spread information and/or bring about changes in the knowledge, attitudes, skills and/or behaviour of a client population  
UF: Outreach  
Public outreach  
RT: Capacity building  
Education  
Online instruction  
Technology transfer  
Training

Extensive aquaculture  
USE: **Extensive culture**

**Extensive culture**  
UF: Extensive aquaculture  
BT: Aquaculture techniques  
RT: Brackishwater aquaculture  
Fish culture  
Freshwater aquaculture  
Pond culture  
Valliculture

External anatomy  
USE: **Organism morphology**

External fertilization  
USE: **Biological fertilization**

Exteroceptors  
USE: **Receptors**

**Extinction coefficient**  
SN: Before 1982 search  
ABSORPTIVITY

- UF: Attenuation coefficient  
 BT: Optical properties  
 RT: Absorption coefficient  
 Attenuance  
 Light absorption  
 Light attenuation  
 Water transparency
- Extinction of species  
 USE: **Species extinction**
- Extracellular**  
 RT: Cells
- Extraction (animal oil)  
 USE: **Animal oil extraction**
- Extraction (chemical)  
 USE: **Chemical extraction**
- Extraction (salts)  
 USE: **Desalination**
- Extraterrestrial interactions  
 USE: **Solar-terrestrial activity**
- Extraterrestrial material**  
 SN: Material of cosmic origin  
 found in sediments  
 UF: Tektites  
 NT: Cosmic dust  
 Cosmic spherules  
 RT: Allochthonous deposits
- Extraterritoriality  
 USE: **Extended jurisdiction**
- Extreme values**  
 SN: Use with property or  
 phenomena  
 UF: Extremes  
 NT: Annual range  
 RT: Astronomical tides  
 Extreme waves
- Extreme waves**  
 RT: Extreme values  
 Surface water waves  
 Wave height
- Extremes  
 USE: **Extreme values**
- Eyes**  
 BT: Photoreceptors  
 NT: Compound eyes  
 Eyestalks  
 Retinas  
 RT: Vision  
 Visual stimuli
- Eyestalk ablation  
 USE: **Eyestalk extirpation**
- Eyestalk extirpation**  
 SN: Before 1982 search ORGAN  
 REMOVAL
- UF: Eyestalk ablation  
 BT: Organ removal  
 RT: Eyestalks
- Eyestalks**  
 BT: Eyes  
 RT: Eyestalk extirpation
- Facies**  
 NT: Biofacies  
 Lithofacies  
 Metamorphic facies  
 Sedimentary facies  
 Shelf facies
- Facsimile transmission**  
 BT: Data transmission
- Factory ships**  
 BT: Support ships  
 RT: Fishery industry equipment  
 Fishery industry plants  
 Fishing vessels  
 High seas fisheries  
 Industrial fisheries  
 Work platforms
- FADs  
 USE: **Fish aggregating devices**
- Faecal coliforms**  
 UF: Faecal coliforms  
 BT: Coliforms
- Faecal contamination  
 USE: **Faecal pollution**
- Faecal pellets**  
 UF: Faecal pellets  
 BT: Excretory products  
 RT: Defaecation
- Faecal pollution**  
 UF: Faecal contamination  
 Faecal contamination  
 Faecal pollution  
 BT: Pollution  
 RT: Groundwater pollution  
 Sewage disposal  
 Water pollution
- Faeces**  
 UF: Excrements  
 Feces  
 BT: Excretory products  
 RT: Manure  
 Sewage  
 Vessel wastes
- Failures**  
 SN: Significant result of damage,  
 defects or deterioration  
 RT: Damage  
 Defects  
 Deterioration  
 Reliability  
 Scouring
- Settlement (structural)
- Fairings**  
 RT: Cables
- Fall  
 USE: **Autumn**
- Fall season  
 USE: **Autumn**
- Falling gear  
 USE: **Cast nets**
- Fallout**  
 UF: Atmospheric fallout  
 Radioactive fallout  
 RT: Air pollution  
 Atmospheric particulates  
 Fission products  
 Nuclear radiations  
 Radioactive aerosols  
 Radioactive contamination  
 Radioactive pollutants  
 Radioactive wastes  
 Radioactivity
- Family statistics  
 USE: **Household statistics**
- Famine**  
 SN: Widespread scarcity of food  
 that may apply to any faunal  
 species - usually accompanied  
 by regional malnutrition,  
 starvation, epidemic, and  
 increased mortality. Starvation  
 caused by famine is the most  
 serious form of hunger  
 UF: Hunger (socioeconomic)  
 BT: Disasters  
 RT: Food aid  
 Food availability  
 Food insecurity  
 Food security  
 Mortality causes  
 Socioeconomic aspects  
 Starvation
- Fans**  
 NT: Alluvial fans  
 Deep-sea fans
- FAO Code of Conduct for  
 Responsible Fisheries**  
 SN: The Code, elaborated by the  
 FAO Committee on Fisheries  
 and adopted by the FAO  
 Conference in 1995, provides  
 principles and standards  
 applicable to the conservation,  
 management and development  
 of all fisheries including the  
 capture, processing and trade of  
 fish and fishery products, fishing  
 operations, aquaculture,  
 fisheries research and the

integration of fisheries into  
coastal area management  
BT: Fishery agreements  
RT: Fishery management  
Fishery regulations  
Standardization  
Standards  
Sustainable fishing

Farm ponds  
USE: **Fish ponds**

Farm wastes  
USE: **Agricultural wastes**

Farmed fish economics  
USE: **Aquaculture economics**

**Fast ice**  
BT: Floating ice  
RT: Ice shelves  
Lake ice  
Sea ice

Fat content  
USE: **Body conditions**

**Fate**  
SN: Fate of substances in the  
environment  
RT: Accumulation  
Degradation  
Dispersion  
Permanence  
Persistence  
Weathering

Fatigue (biological)  
USE: **Biological stress**

**Fatigue (materials)**  
SN: Before 1982 search STRESS  
NT: Metal fatigue  
RT: Corrosion  
Cyclic loading  
Deterioration  
Stress (mechanics)  
Stress corrosion

**Fats**  
BT: Lipids  
RT: Bile  
Fatty acids  
Organic constituents

Fattening ponds  
USE: **Growing ponds**

**Fatty acids**  
BT: Organic acids  
NT: Polyunsaturated fatty acids  
RT: Bioactive compounds  
Fats  
Hydrocarbons

Fault escarpments  
USE: **Fault scarps**

**Fault scarps**  
UF: Fault escarpments  
BT: Escarpments  
RT: Cliffs  
Faults  
Submarine scarps

**Fault zones**  
RT: Faults  
Fracture zones  
Rift valleys  
Rift zones  
Rifting  
Shear zone

**Faults**  
UF: Faults (geology)  
Geological faults  
BT: Geological structures  
NT: Strike-slip faults  
Thrust faults  
Transform faults  
RT: Fault scarps  
Fault zones  
Graben  
Rift valleys  
Rock deformation

Faults (defects)  
USE: **Defects**

Faults (geology)  
USE: **Faults**

**Fauna**  
NT: Aquatic animals  
RT: Biota  
Faunal provinces

**Faunal provinces**  
RT: Biogeography  
Fauna

**Feasibility**  
SN: More specific term is  
recommended. Before 1995  
search also  
FEASIBILITY STUDIES  
UF: Feasibility studies  
NT: Economic feasibility  
Technical feasibility  
RT: Evaluation  
Production cost  
Risks

Feasibility studies  
USE: **Feasibility**

**Feathers**  
UF: Contour feathers  
Filoplumes  
Plumulae  
BT: Integumentary system  
RT: Aquatic birds

Fecal coliforms  
USE: **Faecal coliforms**

Fecal contamination  
USE: **Faecal pollution**

Fecal pellets  
USE: **Faecal pellets**

Fecal pollution  
USE: **Faecal pollution**

Feces  
USE: **Faeces**

**Fecundity**  
SN: An organism's capacity to  
produce offspring  
UF: Egg production  
Fertility (reproductive)  
Natality  
BT: Biological properties  
RT: Brood stocks  
Eggs  
Gonadosomatic index  
Immunocontraception  
Ovaries  
Sexual maturity  
Spawning stock biomass  
Sperm  
Testes

Federal governments  
USE: **Governments**

Federal jurisdiction  
USE: **Jurisdiction**

**Fee fishing**  
SN: An enterprise in which  
catchable organisms are stocked  
into ponds or lakes and  
customers pay for the privilege  
of fishing  
BT: Fishing  
RT: Sport fishing

**Feed**  
SN: Substances used for animal  
feeding by man  
UF: Animal feed  
Aquaculture feed  
Aquafeed  
Artificial feed  
BT: Livestock food  
NT: Pellet feeds  
RT: Dietary fibre  
Feed efficiency  
Feed preparation  
Feeding  
Feeding experiments  
Fish silage

**Feed composition**  
SN: Constituents and chemical  
composition of artificial feeds  
UF: Recipes (animal feed)  
BT: Chemical composition  
RT: Artificial feeding

Bioactive compounds  
Dietary deficiencies  
Feed efficiency  
Feed preparation  
Feeding experiments  
Probiotics

Feed conversion rate  
USE: **Feed efficiency**

**Feed efficiency**  
UF: Feed conversion rate  
RT: Conversion factors  
Diets  
Feed  
Feed composition  
Feeding experiments  
Nutritive value

**Feed preparation**  
RT: Feed  
Feed composition  
Feeding equipment  
Feeding experiments

**Feeding**  
NT: Artificial feeding  
RT: Activity patterns  
Feed  
Feeding behaviour  
Feeding equipment  
Feeding migrations  
Food conversion  
Nutrition  
Probiotics

**Feeding behaviour**  
BT: Behaviour  
NT: Cannibalism  
Foraging behaviour  
Grazing  
RT: Feeding  
Feeding migrations  
Food chains  
Food preferences  
Heterotrophic organisms  
Hunger  
Predation  
Schooling behaviour  
Trophic levels  
Trophodynamic cycle

**Feeding equipment**  
BT: Equipment  
RT: Aquaculture equipment  
Feed preparation  
Feeding

**Feeding experiments**  
RT: Artificial feeding  
Dietary deficiencies  
Experimental culture  
Feed  
Feed composition  
Feed efficiency  
Feed preparation  
Nutritional requirements

Feeding ground  
USE: **Nursery grounds**

**Feeding migrations**  
BT: Migrations  
RT: Feeding  
Feeding behaviour  
Oceanodromous migrations

**Feldspars**  
BT: Silicate minerals  
NT: Orthoclase  
Plagioclase

**Fellowships**  
UF: Scholarships  
RT: Education  
Grants  
Research programmes

**Females**  
BT: Gender  
NT: Women  
RT: Males

**Feminization**  
SN: Normal induction or development of female secondary sex characters or the induction or development of female secondary sex characters in the male  
RT: Aquaculture techniques  
Secondary sexual characters  
Selective breeding  
Sex determination  
Sex hormones  
Sex reversal

**Fenders**  
RT: Ship mooring systems

**Fens**  
SN: A fen is located on a slope, flat, or depression and gets its water from both rainfall and surface water. It may be slightly acidic, neutral or alkaline, either nutrient-poor or nutrient-rich  
BT: Mires  
RT: Bogs  
Marshes  
Muskeg  
Swamps

**Fermentation**  
BT: Chemical reactions  
RT: Anaerobic bacteria  
Enzymes  
Fermented products  
Yeasts

Fermented fish paste  
USE: **Fermented products**

Fermented fish sauce  
USE: **Fermented products**

**Fermented products**  
SN: Before 1982 search CURED PRODUCTS  
UF: Fermented fish paste  
Fermented fish sauce  
BT: Processed fishery products  
RT: Fermentation  
Minced products

Ferric compounds  
USE: **Iron compounds**

Ferric phosphate  
USE: **Iron phosphates**

Ferries  
USE: **Passenger ships**

**Ferromanganese nodules**  
SN: Nodules rich in Mn, Fe, Ni, Co, and Cu. Before 1982 search NODULES  
UF: Manganese nodules  
Polymetallic nodules  
BT: Nodules  
Seabed deposits  
RT: Aluminium  
Cobalt  
Copper  
Ferromanganese oxides  
Gallium  
Iron  
Lead  
Magnesium  
Manganese  
Manganese deposits  
Molybdenum  
Nickel  
Non-living resources  
Silver  
Titanium  
Vanadium  
Zinc  
Zirconium

**Ferromanganese oxides**  
BT: Manganese oxides  
RT: Ferromanganese nodules  
Iron  
Manganese

**Ferrous alloys**  
BT: Alloys  
NT: Steel

Ferrous compounds  
USE: **Iron compounds**

**Ferruginous deposits**  
BT: Chemical sediments  
RT: Ironstone

**Ferry terminals**  
UF: Container ports  
BT: Harbours  
RT: Cargo handling



**Fertility**

SN: Restricted to environmental quality  
RT: Biological production

Fertility (reproductive)

USE: **Fecundity**

Fertility vitamin

USE: **Vitamin E**

Fertilization (biological)

USE: **Biological fertilization**

**Fertilizers**

SN: Products used for artificial fertilization of soils or aquatic environment

NT: Chemical fertilizers  
Organic fertilizers

RT: Habitat improvement (fertilization)

Nutrients (mineral)

Festschriften

USE: **Collected papers**

**Fetch**

UF: Wave fetch

RT: Wave parameters

Wind wave generation

Wind wave parameters

Winds

Fetus

USE: **Foetus**

Fiber glass

USE: **Fibre glass**

Fiber optics

USE: **Fibre optics**

Fibre rope (natural)

USE: **Fibre rope (natural)**

Fibre rope (synthetic)

USE: **Fibre rope (synthetic)**

Fibre (dietry)

USE: **Dietary fibre**

**Fibre glass**

UF: Fiber glass

BT: Materials

RT: Construction materials

Fibre optics

Glass

Glass-reinforced plastics

**Fibre optics**

UF: Fiber optics

BT: Technology

RT: Fibre glass

Optics

**Fibre rope (natural)**

UF: Fiber rope (natural)

Natural fibre rope

BT: Ropes

RT: Fibre rope (synthetic)

**Fibre rope (synthetic)**

UF: Fiber rope (synthetic)

Synthetic fibre rope

BT: Ropes

RT: Fibre rope (natural)

Synthetic fibres

**Fields**

SN: Use of a specific term is recommended

NT: Baroclinic field

Barotropic field

Density field

Electric fields

Gravity field

Hydrothermal fields

Ice fields

Light fields

Pressure field

Temperature fields

Fillets (fish)

USE: **Fish fillets**

**Filletting**

BT: Fish handling

RT: Fish fillets

Film strips

USE: **Filmstrips**

**Films**

SN: Use only for cinema films

BT: Audiovisual materials

RT: Filmstrips

Photography

Videotape recordings

Films (surface)

USE: **Surface films**

**Filmstrips**

UF: Film strips

BT: Audiovisual materials

RT: Films

Slides (photographic)

Filoplumes

USE: **Feathers**

**Filter feeders**

UF: Suspension feeders

BT: Heterotrophic organisms

RT: Bacteria

Detritus

Lophophores

Nannoplankton

Plankton feeders

**Filters**

SN: Use of a more specific term is

recommended

NT: Biofilters

Kalman filters

Optical filters

Water filters

RT: Filtration

**Filtration**

NT: Bacterial filtration

Water filtration

RT: Filters

Screening

Filtration (water)

USE: **Water filtration**

**Fin ray counts**

BT: Meristic counts

RT: Fins

Fin rays

USE: **Fins**

Fin spines

USE: **Fins**

**Financial institutions**

UF: Banks (financial)

Institutions (financial)

BT: Organizations

RT: Financial resources

Financing

**Financial management**

UF: Business management

Credit management

Investment management

BT: Management

RT: Financial resources

Financing

Financial means

USE: **Financial resources**

**Financial resources**

UF: Capital resources

Financial means

BT: Resources

RT: Financial institutions

Financial management

Financing

**Financing**

UF: Fishery credit

Funding

RT: Financial institutions

Financial management

Financial resources

Grants

Insurance

Investments

Marketing

Pricing

Fine structure (biology)

USE: **Ultrastructure**

Fine structure (ocean)

USE: **Finestructure**

**Finestructure**

SN: Variations in the vertical distribution of temperature, salinity and velocity with layer scales ranging from 1-100 cm

UF: Fine structure (ocean)

Finestructure (ocean)

BT: Spatial variations

RT: CTD observations

CTD profilers

Microstructure

Vertical profiles

Finestructure (biology)

USE: **Ultrastructure**

Finestructure (ocean)

USE: **Finestructure**

**Finfish fisheries**

BT: Fisheries

NT: Clupeoid fisheries

Flatfish fisheries

Gadoid fisheries

Mackerel fisheries

Mullet fisheries

Percoid fisheries

Redfish fisheries

Salmon fisheries

Shark fisheries

Tuna fisheries

RT: Demersal fisheries

Estuarine fisheries

Marine fisheries

Pelagic fisheries

Finfish nutrition

USE: **Animal nutrition**

Finger bars

USE: **Transverse bars**

**Fingerlings**

BT: Fish larvae

RT: Fry

Seed (aquaculture)

**Fingerprinting**

NT: Chemical fingerprinting

DNA fingerprinting

Protein fingerprinting

Sediment fingerprinting

**Finite amplitude waves**

BT: Nonlinear waves

**Finite difference method**

BT: Numerical analysis

RT: Approximation

**Finite element method**

BT: Numerical analysis

RT: Boundary value problems

Differential equations

Functional analysis

**Fins**

UF: Fin rays

Fin spines

BT: Locomotory appendages

NT: Bony fins

RT: Fin ray counts

Swimming

Fiord dynamics

USE: **Fjord dynamics**

Fiords

USE: **Fjords**

**Fire**

RT: Blowouts

Damage

Explosions

Fire fighting

Fire hazards

Fire prevention

Ship losses

Smoke

Fire control

USE: **Fire fighting**

**Fire extinguishers**

UF: Chemicals (fire fighting)

RT: Fire fighting

Safety devices

**Fire fighting**

UF: Fire control

RT: Emergency vessels

Fire

Fire extinguishers

**Fire hazards**

BT: Hazards

RT: Blowouts

Fire

Fire prevention

Oil spills

**Fire prevention**

UF: Fire protection

Fire safety

RT: Fire

Fire hazards

Safety regulations

Fire protection

USE: **Fire prevention**

Fire safety

USE: **Fire prevention**

**Fish**

SN: Use of a more specific term is recommended. Used only for general papers dealing with fish of all kinds; always use taxonomic name where given

UF: Fish species

Fishes

Ichthyofauna

BT: Aquatic animals

NT: Air breathing fish

Bait fish

Brackishwater fish

Demersal fish

Food fish

Forage fish

Freshwater fish

Game fish

Herbivorous fish

Marine fish

Ornamental fish

Pelagic fish

Poisonous fish

Trash fish

Tropical fish

RT: Fish culture

Fish diseases

Fish handling

Fish inspection

Fish kill

Fish physiology

Fish poisoning

Fish repellents

Fish wastes

Ichthyology

Shellfish

Fish-cum-chicken culture

USE: **Agropisciculture**

Fish-cum-duck culture

USE: **Agropisciculture**

Fish-cum-pig culture

USE: **Agropisciculture**

Fish (towed sensors)

USE: **Towed sensors**

**Fish aggregating devices**

SN: Artificial or natural floating objects placed on the ocean surface, to attract schooling fish species, thus increasing their catchability

UF: FADs

RT: Attracting techniques

Fish attracting

USE: **Attracting techniques**

Fish balls

USE: **Minced products**

**Fish catch statistics**

SN: Catch tabulation of fish by number or weight

BT: Catch statistics

RT: By catch

Fish conversion factors

**Fish consumption**

UF: Fish consumption statistics

RT: Food fish

Human food

Fish consumption statistics  
USE: **Fish consumption**

Fish conversion  
USE: **Fish handling**

**Fish conversion factors**  
BT: Population factors  
RT: Fish catch statistics

**Fish counters**  
UF: Echo counting systems  
Fish counting devices  
BT: Counters  
RT: Acoustic equipment  
Echo integrators

Fish counting devices  
USE: **Fish counters**

**Fish culture**  
SN: Methods and techniques for fish culture  
UF: Fish farming  
Fish farms  
Pisciculture  
BT: Cultures  
NT: Bait culture  
Barramundi culture  
Carp culture  
Catfish culture  
Eel culture  
Flatfish culture  
Grouper culture  
Milkfish culture  
Salmon culture  
Sea bass culture  
Sea bream culture  
Snapper culture  
Tilapia culture  
Trout culture  
RT: Agropisciculture  
Aquaculture  
Aquaponics  
Aquarium culture  
Brackishwater aquaculture  
Cage culture  
Extensive culture  
Fish  
Freshwater aquaculture  
Hybrid culture  
Intensive culture  
Marine aquaculture  
Monoculture  
Monosex culture  
Polyculture  
Pond culture  
Raceway culture  
Rice field aquaculture  
Silo culture  
Thermal aquaculture  
Wastewater aquaculture

Fish culture diseases  
USE: **Husbandry diseases**

Fish culture economics  
USE: **Aquaculture economics**

**Fish detection**  
UF: Fish location  
BT: Detection  
RT: Fishing  
Sonar detection  
Target strength

**Fish diseases**  
UF: Shellfish diseases  
Tilapia diseases  
BT: Animal diseases  
NT: Boil disease  
Bubble disease  
Gill disease  
Peduncle disease  
Redmouth disease  
Sunburn  
Ulcerative dermal necrosis  
Vibriosis  
Whirling disease  
RT: Fish  
Fish kill  
Fish physiology  
Granulomas  
Husbandry diseases  
Parasitic diseases  
Protozoan diseases  
Septicaemia  
Tuberculosis  
Viral diseases

Fish dressing  
USE: **Dressing**

Fish drying  
USE: **Drying**

**Fish eggs**  
BT: Eggs  
RT: Fish larvae  
Ichthyoplankton  
Iodophors

**Fish entanglement**  
BT: Entanglement

Fish farming  
USE: **Fish culture**

Fish farms  
USE: **Fish culture**

**Fish fillets**  
UF: Block fillets  
Fillets (fish)  
Side fillets  
BT: Processed fishery products  
RT: Filletting  
Gutting

**Fish flour**  
SN: Fish meal prepared for human consumption. Before 1982

search **POWDERED PRODUCTS**  
UF: Fish protein concentrate  
BT: Fish meal

Fish food organisms  
USE: **Food organisms**

Fish freshness  
USE: **Quality control**

Fish fry collection  
USE: **Seed collection**

Fish furunculosis  
USE: **Boil disease**

**Fish glue**  
SN: Gelatinous liquid glue from fish waste  
BT: Adhesives  
Processed fishery products  
RT: Fish wastes

**Fish grading**  
BT: Biological grading

**Fish handling**  
UF: Fish conversion  
Unloading  
BT: Handling  
NT: Dressing  
Filletting  
Heading  
RT: Fish  
Post harvest losses  
Processing fishery products

Fish hooks  
USE: **Hooks**

Fish impingement  
USE: **Impingement**

**Fish inspection**  
SN: Monitoring of fish and fishery products quality control  
BT: Inspection  
RT: Fish  
Fish inspection regulations  
Fishery products

**Fish inspection regulations**  
BT: Commercial legislation  
RT: Codex standards  
Fish inspection

**Fish kill**  
SN: Excessive or conspicuous mortalities of fish due to several causes  
UF: Mass mortality  
NT: Winterkill  
RT: Fish  
Fish diseases  
Mass extinctions  
Mortality causes

Fish ladders

USE: **Fishways**

**Fish larvae**

UF: Ammocetes

Leptocephalus

BT: Larvae

NT: Fingerlings

Fry

RT: Fish eggs

Ichthyoplankton

**Fish leather**

BT: Processed fishery products

RT: Byproducts

Fish skin

Fish wastes

Resource development

Waste utilization

Fish location

USE: **Fish detection**

**Fish meal**

SN: Before 1982 search

POWDERED PRODUCTS

BT: Powdered products

NT: Fish flour

RT: Fish meal processing

Fish wastes

Organic fertilizers

**Fish meal processing**

BT: Processing fishery products

RT: Fish meal

Fish mince

USE: **Minced products**

Fish nutrition

USE: **Animal nutrition**

**Fish oil extraction**

BT: Animal oil extraction

RT: Fish oils

**Fish oils**

SN: Oils extracted from fish, fish

liver, fish wastes and marine mammals

UF: Oils (fish)

Sperm oils

BT: Processed fishery products

RT: Byproducts

Fish oil extraction

Fish wastes

Stickwater

Fish passages

USE: **Fishways**

Fish paste

USE: **Minced products**

Fish pathology

USE: **Pathology**

**Fish physiology**

SN: Before 1982 search

PHYSIOLOGY

UF: Physiology (fish)

BT: Animal physiology

RT: Fish

Fish diseases

Ichthyology

Fish plants

USE: **Fishery industry plants**

**Fish poisoning**

SN: Capture of fish or other aquatic animals by use of poisons of different origin

UF: Poison fishing

Poisoning

Shellfish poisoning (catching method)

BT: Catching methods

RT: Fish

Stupefying methods

Fish pond culture

USE: **Pond culture**

**Fish ponds**

UF: Farm ponds

BT: Ponds

NT: Breeding ponds

Growing ponds

Stocking ponds

RT: Aquaculture facilities

Enclosures

Hatcheries

Pond culture

Small scale aquaculture

Fish prices

USE: **Pricing**

Fish products

USE: **Fishery products**

Fish protein concentrate

USE: **Fish flour**

**Fish pumps**

SN: Used for unloading small fish.

Before 1982 search

HARVESTING MACHINES

BT: Pumps

RT: Harvesting machines

Fish rearing ponds

USE: **Nursery ponds**

**Fish repellents**

UF: Shark repellents

BT: Repellents

RT: Fish

Fish resources

USE: **Fishery resources**

Fish roe

USE: **Roes**

Fish sauce

USE: **Fish silage**

Fish sausage

USE: **Processed fishery products**

Fish scales

USE: **Scales**

Fish scientists

USE: **Ichthyologists**

Fish screens

USE: **Screens**

Fish seed

USE: **Seed (aquaculture)**

**Fish silage**

UF: Fish sauce

Liquid fish products

Silage from fish

BT: Processed fishery products

RT: Feed

**Fish sizing**

UF: Acoustic sizing techniques

RT: Echo surveys

Target strength

**Fish skin**

BT: Skin

RT: Fish leather

Fish wastes

Processed fishery products

Waste utilization

Fish solubles

USE: **Stickwater**

Fish sounds

USE: **Biological noise**

Fish species

USE: **Fish**

**Fish spoilage**

UF: Spoilage (fish)

BT: Post harvest losses

RT: Quality control

Shrimp spoilage

Fish stocks

USE: **Stocks**

**Fish storage**

SN: Before 1982 search

STORAGE

UF: Storage (fish)

BT: Storage

NT: Live storage

RT: Cold storage

Fish tracking

USE: **Tracking**

## ASFA THESAURUS

Fish traps  
USE: **Trap nets**

**Fish utilization**  
NT: Shark utilization  
RT: Fishery products  
Processing fishery products

Fish wars  
USE: **Fishery disputes**

Fish waste utilization  
USE: **Waste utilization**

**Fish wastes**  
BT: Organic wastes  
RT: Fish  
Fish glue  
Fish leather  
Fish meal  
Fish oils  
Fish skin  
Stickwater  
Vessel wastes

Fisherfolk  
USE: **Fishers**

**Fisheries**  
UF: Capture fisheries  
Commercial fisheries  
NT: Artisanal fisheries  
Bait fisheries  
Canoe fisheries  
Carangid fisheries  
Coastal fisheries  
Demersal fisheries  
Estuarine fisheries  
Finfish fisheries  
Industrial fisheries  
Inland fisheries  
Marine fisheries  
Multispecies fisheries  
Roe fisheries  
Shellfish fisheries  
Sponge fisheries  
Subsistence fisheries  
Turtle fisheries  
RT: Fishery development  
Fishery management  
Fishery resources  
Fishing  
Fishing grounds

Fisheries biology  
USE: **Fishery biology**

Fisheries data  
USE: **Fishery data**

Fisheries hydrography  
USE: **Fishery oceanography**

Fisheries institutions  
USE: **Fishery institutions**

Fisheries literature  
USE: **Documents**

Fisheries management  
USE: **Fishery management**

Fisheries organizations  
USE: **Fishery organizations**

Fisheries regulations  
USE: **Fishery regulations**

Fisheries resources  
USE: **Fishery resources**

Fisheries sciences  
USE: **Fishery sciences**

Fisheries statistics  
USE: **Fishery statistics**

Fishermen  
USE: **Fishers**

Fishermen statistics  
USE: **Fishers statistics**

**Fishers**  
SN: People who fish, process fish  
or make a living from fish.  
Before 2016, Search also  
FISHERMEN and/or WOMEN  
UF: Fisherfolk  
Fishermen  
Fisherwomen  
RT: Fishers statistics  
Livelihoods

**Fishers statistics**  
SN: Before 2016 Search  
FISHERMEN STATISTICS  
UF: Fishermen statistics  
BT: Fishery statistics  
RT: Fishers

Fisherwomen  
USE: **Fishers**

**Fishery agreements**  
SN: Before 2016, search  
INTERNATIONAL  
AGREEMENTS + FISHERIES  
+ FISHERY REGULATIONS  
BT: Agreements  
NT: FAO Code of Conduct for  
Responsible Fisheries  
RT: International agreements  
Law of the sea  
Legislation  
Soft law

**Fishery aid**  
SN: Provision of economic, social,  
legal or other kinds of assistance  
to fishers and /or to their  
communities  
BT: Aid

RT: Development projects  
International cooperation  
Rural development  
Subsidies  
Technology transfer

**Fishery biologists**  
BT: Biologists  
RT: Algologists  
Carcinologists  
Fishery biology  
Ichthyologists  
Malacologists

**Fishery biology**  
SN: Scientific complex of  
different disciplines applied to  
biological research in fisheries  
UF: Fisheries biology  
BT: Biology  
Fishery sciences  
RT: Fishery biologists  
Fishery limnology  
Fishery oceanography  
Hydrobiology  
Ichthyology

**Fishery boundaries**  
BT: Boundaries  
RT: Contiguous zones  
Exclusive economic zone  
Fishery disputes

**Fishery charts**  
SN: Charts for use in fishery  
operations including graphical  
descriptions of fishing grounds  
BT: Maps  
RT: Fishery surveys  
Survey design

Fishery conflicts  
USE: **Fishery disputes**

Fishery cooperatives  
USE: **Cooperatives**

Fishery credit  
USE: **Financing**

**Fishery data**  
SN: Restricted to fishery operation  
data  
UF: Fisheries data  
BT: Data  
RT: Catch-effort  
Catch statistics  
Fishery statistics  
Fishing effort  
Fishing power  
Fishing time  
Observers

**Fishery development**  
BT: Resource development  
RT: Development projects  
Fisheries

Fishery industry  
 Fishery institutions  
 Fishery organizations  
 Fishery policy  
 Fishery sciences

**Fishery disputes**  
 UF: Fish wars  
 Fishery conflicts  
 Fishery litigation  
 BT: Disputes  
 RT: Fishery boundaries  
 Fishery policy  
 Fishery protection  
 Fishery regulations  
 Fishing rights  
 Foreign fishing  
 Illegal fishing  
 Soft law

**Fishery economics**  
 SN: Economics of all aspects of fisheries, exploitation, production, processing, marketing, distribution, trade etc.  
 BT: Economics  
 Fishery sciences  
 NT: Aquaculture economics  
 Capture fishery economics  
 RT: Fishery management  
 Fishery policy  
 Fishing fleet  
 Incentives

Fishery education  
 USE: **Education**

**Fishery engineering**  
 BT: Engineering  
 Fishery sciences  
 RT: Aquaculture engineering  
 Catching methods  
 Gear research

**Fishery industry**  
 SN: Including any industries of fishery products obtained by handling or processing methods  
 UF: Fishing industry  
 Tilapia industry  
 BT: Industries  
 RT: Commercial fishing  
 Community fishing  
 Fishery development  
 Fishery industry equipment  
 Fishery industry legislation  
 Fishery industry plants  
 Fishery policy  
 Fishery products  
 Industrial fisheries  
 Packing fishery products  
 Processing fishery products

**Fishery industry equipment**  
 SN: Industrial equipment used for handling and processing fishery

products  
 BT: Equipment  
 NT: Fishing gear  
 RT: Factory ships  
 Fishery industry  
 Fishery industry plants  
 Fishing vessels

**Fishery industry legislation**  
 BT: Legislation  
 RT: Fishery industry

**Fishery industry plants**  
 UF: Fish plants  
 RT: Factory ships  
 Fishery industry  
 Fishery industry equipment

**Fishery institutions**  
 UF: Fisheries institutions  
 Fishery research institutions  
 BT: Research institutions  
 RT: Community fishing  
 Fishery development  
 Fishery organizations  
 Fishery sciences  
 Limnological institutions  
 Oceanographic institutions

Fishery laws  
 USE: **Fishery regulations**

Fishery legislation  
 USE: **Fishery regulations**

**Fishery limnology**  
 BT: Fishery sciences  
 Limnology  
 RT: Fishery biology  
 Freshwater ecology  
 Lake fisheries

Fishery litigation  
 USE: **Fishery disputes**

**Fishery management**  
 UF: Fisheries management  
 BT: Resource management  
 RT: Buyback  
 Ecosystem approach  
 FAO Code of Conduct for Responsible Fisheries  
 Fisheries  
 Fishery economics  
 Fishery policy  
 Fishing down aquatic food webs  
 Fishing fleet  
 Incentives  
 Indigenous knowledge  
 Individual transferable quotas  
 Observers  
 Scientific advice  
 Spatial planning  
 Stewardship  
 Subsidies

**Fishery oceanography**  
 SN: Applied investigations on oceanic conditions of fishing regions or grounds  
 UF: Fisheries hydrography  
 BT: Fishery sciences  
 Oceanography  
 RT: Fishery biology  
 Hydrography

**Fishery organizations**  
 UF: Fisheries organizations  
 BT: Organizations  
 RT: Cooperatives  
 Fishery development  
 Fishery institutions  
 Fishery policy  
 Fishery regulations  
 Fishing communities

**Fishery policy**  
 UF: Fishing policy  
 BT: Policies  
 RT: Allocation systems  
 Fishery development  
 Fishery disputes  
 Fishery economics  
 Fishery industry  
 Fishery management  
 Fishery organizations  
 Fishery protection  
 Fishery regulations  
 Fishing rights  
 Foreign fishing  
 Observers

**Fishery products**  
 UF: Fish products  
 Primary fishery products  
 Seafood products  
 BT: Products  
 NT: Processed fishery products  
 Sashimi  
 RT: Aquaculture products  
 Fish inspection  
 Fish utilization  
 Fishery industry  
 Packing fishery products  
 Product labelling  
 Smuggling

Fishery products statistics  
 USE: **Industrial products statistics**

**Fishery protection**  
 SN: Measures against illegal fishing by foreign vessels in EEZ, territorial waters or protected fisheries  
 BT: Protection  
 RT: Exclusive economic zone  
 Fishery disputes  
 Fishery policy  
 Fishery regulations  
 Fishing rights  
 Foreign fishing

## ASFA THESAURUS

Illegal fishing  
Observers  
Protection vessels  
Surveillance and enforcement

Fishery protection vessels  
USE: **Protection vessels**

### **Fishery regulations**

SN: Regulations on national rights to fisheries and legislative management of fisheries resources

UF: Fisheries regulations  
Fishery laws  
Fishery legislation

BT: Legislation

NT: Mesh regulations

Moratoria  
Quota regulations  
Season regulations  
Size-limit regulations  
Whaling regulations

RT: Exclusive economic zone

FAO Code of Conduct for Responsible Fisheries

Fishery disputes  
Fishery organizations  
Fishery policy  
Fishery protection  
Fishing fleet  
Fishing rights  
Maritime legislation  
Regulatory compliance

Fishery research institutions

USE: **Fishery institutions**

### **Fishery resources**

UF: Fish resources  
Fisheries resources  
BT: Living resources  
RT: Aquatic animals  
Aquatic plants  
Fisheries  
Fishery surveys  
Fishing fleet  
Spawning stock biomass  
Stocks  
Survey design

### **Fishery sciences**

UF: Fisheries sciences  
NT: Fishery biology  
Fishery economics  
Fishery engineering  
Fishery limnology  
Fishery oceanography  
RT: Fishery development  
Fishery institutions  
Fishery technology  
Marine sciences  
Theories

### **Fishery statistics**

SN: Including statistical tabulation of data

UF: Fisheries statistics  
BT: Statistics  
NT: Aquaculture statistics  
Catch statistics  
Fishers statistics  
Fishing vessels statistics  
Industrial products statistics  
Landing statistics  
Sport fishing statistics  
RT: Fishery data  
Fishing fleet

### **Fishery surveys**

BT: Surveys  
RT: Aerial surveys  
Echo surveys  
Fishery charts  
Fishery resources  
Ichthyoplankton surveys  
Observers  
Stock assessment

### **Fishery technology**

SN: Scientific research and industrial techniques applied to fishery industry  
BT: Technology  
RT: Catching methods  
Fishery sciences  
Fishing technology

Fishes

USE: **Fish**

### **Fishing**

SN: Use of a more specific term is recommended; consult terms listed below. Before 1995 search also FISHING OPERATIONS

UF: Fishing operations  
NT: Artisanal fishing  
Bait fishing  
Commercial fishing  
Community fishing  
Experimental fishing  
Exploratory fishing  
Fee fishing  
Ice fishing  
Indigenous fishing  
Intermediate fishing  
Line fishing  
Sport fishing  
Sustainable fishing  
Trap fishing

RT: Catching methods  
Fish detection  
Fisheries  
Fishing fleet  
Fishing gear  
Fishing grounds  
Fishing technology  
Fishing vessels  
Livelihoods  
Vulnerable marine ecosystems

Fishing bait

USE: **Bait**

### **Fishing barriers**

SN: Usually constructed in tidal waters and made of various materials (stakes, branches, reeds, netting, etc.). Differ from fixed gillnets which, when the tide ebbs, may eventually allow the fish not entangled or gilled to pass freely underneath their bottom line. Include : Fences, Weirs, Corrals. Before 1982 search BARRIERS

UF: Barrier nets

Barriers (fishing)

BT: Barriers

RT: Coastal fisheries

Lagoon fisheries

Fishing boats

USE: **Fishing vessels**

### **Fishing buoys**

BT: Buoys

RT: Fishing gear

Radio buoys

### **Fishing by diving**

BT: Catching methods

RT: Diving

Pearl fisheries

Sponge fisheries

### **Fishing capacity**

SN: Ability of a stock of inputs (capital) to produce output (measured as either effort or catch)

NT: Excess capacity

Overcapacity

RT: Common property resources

Overexploitation

Overfishing

### **Fishing communities**

SN: Before 2016 search also FISHING VILLAGES

UF: Fishing settlements

Fishing villages

RT: Community fishing

Fishery organizations

Rural development

Fishing craft

USE: **Fishing vessels**

### **Fishing down aquatic food webs**

SN: Fishing down aquatic food webs is the process where fishery catches have been gradually shifting from long-living and high trophic level species to short-living species located in low trophic levels of the food web.

UF: Fishing down the food chain  
Fishing down the food web

Fishing down freshwater food webs  
 Fishing down marine food webs  
 Fishing down coastal food webs  
 BT: Ecosystem disturbance  
 RT: Food webs  
 Trophic levels  
 Overfishing  
 Commercial fishing  
 Catch statistics  
 Fishery management  
 Stock assessment  
 Fishing power

Fishing down coastal food webs  
 USE: **Fishing down aquatic food webs**

Fishing down freshwater food webs  
 USE: **Fishing down aquatic food webs**

Fishing down marine food webs  
 USE: **Fishing down aquatic food webs**

Fishing down the food chain  
 USE: **Fishing down aquatic food webs**

Fishing down the food web  
 USE: **Fishing down aquatic food webs**

**Fishing effort**  
 UF: Fishing effort statistics  
 Fishing intensity  
 RT: Catch-effort  
 Catch statistics  
 Fishery data  
 Fishing fleet  
 Fishing power  
 Fishing time

Fishing effort statistics  
 USE: **Fishing effort**

Fishing equipment  
 USE: **Fishing gear**

**Fishing fleet**  
 SN: An aggregation of fishing vessels of a particular country (e.g. The European Union fishing fleet) or using a particular gear (e.g. Purse seine fleet)  
 NT: Fishing vessels  
 RT: Catch statistics  
 Catching methods  
 Fishery economics  
 Fishery management  
 Fishery regulations  
 Fishery resources  
 Fishery statistics  
 Fishing  
 Fishing effort

Fishing gear  
 Fishing grounds

**Fishing gear**  
 SN: Technical description of gear used mainly for commercial fishing purposes  
 UF: Fishing equipment  
 BT: Fishery industry equipment  
 NT: Dredges  
 Electrified gear  
 Fishing nets  
 Grappling gear  
 Harvesting machines  
 Lines  
 Pots  
 Wounding gear  
 RT: Catching methods  
 Fishing  
 Fishing buoys  
 Fishing fleet  
 Fishing power  
 Fishing vessels  
 Gear construction  
 Gear materials  
 Gear research  
 Gear selectivity  
 Winches

**Fishing grounds**  
 RT: Fisheries  
 Fishing  
 Fishing fleet  
 Fishing rights  
 Spawning grounds  
 Submarine banks

**Fishing harbours**  
 BT: Harbours  
 Fishing industry  
 USE: **Fishery industry**

Fishing injuries  
 USE: **Injuries**

Fishing intensity  
 USE: **Fishing effort**

Fishing licenses  
 USE: **Fishing rights**

Fishing methods  
 USE: **Catching methods**

**Fishing mortality**  
 UF: Fishing mortality coefficient  
 BT: Mortality  
 RT: Overfishing  
 Total mortality  
 Vulnerability  
 Yield  
 Yield-per-recruit

Fishing mortality coefficient  
 USE: **Fishing mortality**

**Fishing nets**  
 BT: Fishing gear  
 Nets  
 NT: Cast nets  
 Codends  
 Entangling nets  
 Gillnets  
 Lift-nets  
 Seine nets  
 Surrounding nets  
 Trap nets  
 Trawl nets  
 RT: Nekton collecting devices  
 Net fishing  
 Plankton collecting devices

Fishing operations  
 USE: **Fishing**

Fishing overexploitation  
 USE: **Overfishing**

Fishing policy  
 USE: **Fishery policy**

**Fishing power**  
 RT: Catch-effort  
 Fishery data  
 Fishing down aquatic food webs  
 Fishing effort  
 Fishing gear  
 Fishing time

**Fishing rights**  
 SN: The legal right of fishing in a given place at a given time  
 UF: Customary fishing rights  
 Exclusive fishing rights  
 Fishing licenses  
 BT: Rights  
 RT: Buyback  
 Contiguous zones  
 Exclusive economic zone  
 Exclusive rights  
 Extended jurisdiction  
 Fishery disputes  
 Fishery policy  
 Fishery protection  
 Fishery regulations  
 Fishing grounds  
 Foreign fishing  
 Territorial waters

Fishing seasons  
 USE: **Season regulations**

Fishing settlements  
 USE: **Fishing communities**

**Fishing technology**  
 SN: Before 1982 search  
 CATCHING METHODS  
 BT: Technology  
 RT: Catching methods  
 Experimental fishing  
 Fishery technology  
 Fishing



**Fishing time**

RT: Catch statistics  
 Fishery data  
 Fishing effort  
 Fishing power  
 Landing statistics

**Fishing vessels**

UF: Fishing boats  
 Fishing craft  
 BT: Fishing fleet  
 NT: Gillnetters  
 Liners  
 Seiners  
 Trawlers  
 RT: Buyback  
 Factory ships  
 Fishery industry equipment  
 Fishing  
 Fishing gear  
 Fishing vessels statistics  
 Mother ships  
 Support ships  
 Surface craft  
 Work platforms

**Fishing vessels statistics**

SN: Statistical data tabulated by  
 types of vessels and size  
 categories  
 BT: Fishery statistics  
 RT: Fishing vessels

## Fishing villages

USE: **Fishing communities**

## Fishing zone

USE: **Exclusive economic zone**

**Fishways**

UF: Fish ladders  
 Fish passages  
 BT: Guiding devices  
 RT: Anadromous migrations  
 Dams  
 Habitat improvement (physical)  
 Screens  
 Water reservoirs

**Fission products**

UF: Debris (nuclear)  
 BT: Radioactive materials  
 RT: Fallout  
 Isotopes  
 Nuclear explosions

**Fixation**

SN: Fixation methods used to kill  
 and preserve aquatic animal  
 and vegetal organisms for  
 laboratory purposes  
 UF: Conservation (organisms)  
 Preservation (organisms)  
 Wet storage (museum  
 specimens)  
 RT: Anaesthetics  
 Fixatives

## Preservatives

**Fixatives**

UF: Fixing agents  
 RT: Chemical compounds  
 Cytology  
 Fixation  
 Histology

**Fixed platforms**

SN: Membered structures,  
 permanently attached to the sea  
 floor, with the working level  
 above water  
 UF: Fixed structures  
 BT: Offshore structures  
 NT: Gravity platforms  
 Guyed towers  
 Piled platforms  
 Tension leg platforms  
 RT: Mobile platforms  
 Work platforms

**Fixed stations**

BT: Oceanographic stations  
 NT: Inshore stations  
 Ocean stations  
 RT: Monitoring systems  
 Standard ocean sections  
 Time series

## Fixed structures

USE: **Fixed platforms**

## Fixing agents

USE: **Fixatives**

## Fixing position

USE: **Position fixing**

**Fjord dynamics**

SN: Water motion in fjords  
 UF: Fjord dynamics  
 BT: Shelf dynamics  
 RT: Fjords

**Fjords**

UF: Fjords  
 Fjords  
 BT: Coastal inlets  
 RT: Drowned valleys  
 Estuaries  
 Fjord dynamics  
 Fossil sea water  
 Glacial features  
 Inlets (waterways)  
 Sill depth  
 Sills  
 Submerged shorelines

**Flagella**

SN: Before 1982 search CILIA  
 UF: Flagellum  
 RT: Animal appendages  
 Cilia  
 Locomotory appendages

## Flagellum

USE: **Flagella**

## Flaring

USE: **Gas flaring**

**Flash floods**

BT: Floods  
 RT: Disasters  
 Flood forecasting  
 Flood plains  
 Flooding  
 Water levels

**Flatfish culture**

SN: Before 2016 search FISH  
 CULTURE + species name  
 BT: Fish culture

**Flatfish fisheries**

UF: Flounder fisheries  
 Halibut fisheries  
 Plaice fisheries  
 Sole fisheries  
 BT: Finfish fisheries  
 RT: Longlining  
 Trawling

## Flavor

USE: **Taste**

## Flavour

USE: **Taste**

## Flavour tests

USE: **Taste tests**

## Flaw detection

USE: **Nondestructive testing**

## Flaws

USE: **Defects**

**Flexibility**

UF: Rigidity  
 BT: Mechanical properties  
 RT: Deformation  
 Elasticity  
 Poisson's ratio

**Flight behaviour**

UF: Bird flight behaviour  
 BT: Behaviour  
 RT: Aquatic birds  
 Flying

**Floating**

RT: Ballast  
 Capsizing

**Floating barriers**

UF: Booms  
 Oil booms  
 BT: Barriers

**Floating cages**

BT: Cages

**Floating hoses**

BT: Hoses  
RT: Loading buoys  
Tanker loading

**Floating ice**

BT: Ice  
NT: Fast ice  
Ice islands  
Ice keels  
Ice shelves  
Icebergs  
Pack ice  
RT: Ice caps  
Ice jams  
Lake ice  
Leads  
Polynyas  
Sea ice

**Floating structures**

BT: Offshore structures  
NT: Mobile platforms  
Pontoons  
RT: Barges  
Buoy systems  
Ice rafts  
Surface craft  
Tension leg platforms

Floating trawls

USE: **Midwater trawls**

Floats (buoyancy)

USE: **Buoyancy floats**

Floats (current measurement)

USE: **Drifters**

Floats (subsurface)

USE: **Subsurface drifters**

**Flocculation**

BT: Chemical precipitation  
RT: Colloids  
Coprecipitation  
Deflocculation  
Sewage treatment  
Suspended particulate matter  
Suspension

**Flood control**

UF: Flood prevention  
BT: Control  
RT: Dams  
Embankments  
Erosion control  
Flood forecasting  
Flood plains  
Floods  
Hydraulic engineering  
River basin management  
River restoration  
Spillways  
Stream flow  
Water management

Water reservoirs  
Watersheds

**Flood currents**

BT: Tidal currents  
RT: High tide  
Tidal cycles

**Flood damage**

BT: Damage

**Flood forecasting**

UF: Flood predictions  
BT: Prediction  
RT: Flash floods  
Flood control  
Flood hydrographs  
Floods

**Flood hydrographs**

RT: Flood forecasting  
Floods  
Graphs

**Flood plains**

UF: Floodplains  
BT: Landforms  
RT: Alluvial deposits  
Deltas  
Flash floods  
Flood control  
Floods  
Fluvial features  
Fluvial morphology  
Levees  
Plains  
River meanders  
River valleys  
Rivers

Flood predictions

USE: **Flood forecasting**

Flood prevention

USE: **Flood control**

**Flooding**

UF: Intentional inundation  
Inundation  
RT: Flash floods  
Floods  
Storm surges  
Tsunamis  
Wave effects  
Wetlands

Flooding (disasters)

USE: **Floods**

Flooding (irrigation)

USE: **Irrigation**

Floodplains

USE: **Flood plains**

**Floods**

UF: Escape of water

Flooding (disasters)

BT: Weather hazards  
NT: Flash floods  
RT: Damage assessment  
Disasters  
Flood control  
Flood forecasting  
Flood hydrographs  
Flood plains  
Flooding  
Geological hazards  
Storm surges  
Tsunamis  
Water levels

Floor (ocean)

USE: **Ocean floor**

**Flora**

UF: Plants  
NT: Aquatic plants  
Riparian vegetation  
Weeds  
RT: Biota  
Plant strains  
Vegetation cover

**Flotation**

SN: Including flotation mechanisms  
RT: Buoyancy  
Coagulation  
Displacement  
Hydrostatic behaviour  
Surface properties  
Surface tension  
Swim bladder

**Flotsam**

SN: Floating wreckage  
UF: Jetsam  
RT: Solid impurities  
Surface drifters  
Wrecks

Flounder fisheries

USE: **Flatfish fisheries**

Flow (water)

USE: **Water currents**

Flow around immersed structure

USE: **Flow around objects**

**Flow around objects**

UF: Flow around immersed structure  
BT: Fluid flow  
RT: Current scouring  
Lee eddies  
Wave forces

**Flow cytometry**

SN: A technique for identifying and sorting cells and their components (as DNA) by staining with a fluorescent dye

and detecting the fluorescence usually by laser beam illumination  
 BT: Cell counters  
 RT: Cytogenetics  
 Cytology  
 Instruments

Flow in channels  
 USE: **Channel flow**

**Flow measurement**

SN: Before 1984 search also  
 FLUID FLOW  
 MEASUREMENT  
 BT: Measurement  
 NT: Current measurement  
 Turbulence measurement  
 Wind measurement  
 RT: Flow measuring equipment  
 Fluid flow

**Flow measuring equipment**

BT: Measuring devices  
 NT: Current measuring equipment  
 Flowmeters  
 Wind measuring equipment  
 RT: Flow measurement  
 Fluid flow

**Flow over surfaces**

SN: Use of a more specific term is recommended  
 BT: Fluid flow  
 NT: Air flow over land  
 Air flow over water  
 RT: Topographic effects

Flow over water surface  
 USE: **Air flow over water**

Flow sensors  
 USE: **Flowmeters**

**Flow structures**

BT: Sedimentary structures  
 RT: Slumping  
 Turbidity current structures

**Flowlines**

SN: Pipelines from underwater wellheads to manifolds or riser pipes  
 BT: Pipelines  
 RT: Gathering lines  
 Manifolds  
 Riser pipes  
 Wellheads

**Flowmeters**

UF: Flow sensors  
 BT: Flow measuring equipment  
 RT: Anemometers  
 Channel flow  
 Current meters  
 Current sensors  
 Current velocity

Thermistors  
 Wind measuring equipment

**Fluid dynamics**

BT: Dynamics  
 Fluid mechanics  
 NT: Aerodynamics  
 RT: Atmospheric motion  
 Equation of continuity  
 Fluid motion  
 Water motion

**Fluid flow**

BT: Fluid motion  
 NT: Ageostrophic flow  
 Channel flow  
 Critical flow  
 Density flow  
 Flow around objects  
 Flow over surfaces  
 Geostrophic flow  
 Horizontal motion  
 Hydrothermal flow  
 Jets  
 Laminar flow  
 Multiphase flow  
 Percolation  
 Plumes  
 Potential flow  
 Shear flow  
 Stratified flow  
 Turbulent flow  
 RT: Flow measurement  
 Flow measuring equipment  
 Fluids  
 Froude number  
 Oscillatory flow  
 Water currents  
 Winds

**Fluid mechanics**

SN: Before 1982 search  
 HYDRODYNAMICS  
 BT: Mechanics  
 NT: Fluid dynamics  
 Hydrodynamics  
 Hydrostatics  
 RT: Dynamical oceanography  
 Fluid motion  
 Fluids

**Fluid motion**

SN: Before 1982 search  
 HYDRODYNAMICS  
 BT: Motion  
 NT: Baroclinic motion  
 Barotropic motion  
 Billows  
 Fluid flow  
 Langmuir circulation  
 Turbulent entrainment  
 Unidirectional flow  
 Unsteady flow  
 RT: Anticyclonic motion  
 Current meandering  
 Dynamical oceanography  
 Fluid dynamics

Fluid mechanics  
 Meandering  
 Planetary waves  
 Residual flow  
 Rotating fluids  
 Stream flow  
 Tidal motion  
 Vertical motion  
 Vortices  
 Water circulation  
 Water currents  
 Wave motion

**Fluid mud**

BT: Mud  
 RT: Fluidization

**Fluidization**

BT: Phase changes  
 NT: Liquefaction  
 RT: Fluid mud  
 Fluidized sediment flow  
 Fluids  
 Grain flow  
 Slumping

**Fluidized sediment flow**

BT: Sediment gravity flows  
 NT: Liquefied sediment flow  
 RT: Cohesionless sediments  
 Fluidization  
 Pore pressure  
 Pore water

**Fluids**

SN: Use of a more specific term is recommended  
 NT: Body fluids  
 Drilling fluids  
 Gases  
 Liquids  
 Non-Newtonian fluids  
 Rotating fluids  
 RT: Fluid flow  
 Fluid mechanics  
 Fluidization

**Flumes**

BT: Laboratory equipment  
 RT: Channels  
 Wave tanks

**Fluorescence**

BT: Luminescence  
 RT: Biological properties  
 Bioluminescence  
 Fluorescence microscopy  
 Fluorescence spectroscopy  
 Fluorimeters  
 Immunofluorescence  
 Light scattering  
 Phosphorescence

**Fluorescence microscopy**

BT: Microscopy  
 RT: Fluorescence  
 Radiography

**Fluorescence spectroscopy**

UF: Atomic fluorescence spectroscopy  
 BT: Spectroscopic techniques  
 RT: Chemical fingerprinting  
 Fluorescence

**Fluorides**

BT: Fluorine compounds  
 RT: Halides

**Fluorimeters**

UF: Fluorometers  
 RT: Fluorescence  
 Light measuring instruments

**Fluorinated hydrocarbons**

BT: Halogenated hydrocarbons  
 NT: Freons

**Fluorine**

BT: Halogens  
 RT: Fluorine compounds  
 Fluorite

**Fluorine compounds**

BT: Halogen compounds  
 NT: Fluorides  
 RT: Brines  
 Chloric acid  
 Chlorine compounds  
 Chlorinity  
 Dissolved salts  
 Fluorine  
 Organic compounds

**Fluorite**

BT: Halide minerals  
 RT: Fluorine

**Fluorometers**

USE: **Fluorimeters**

**Flushing**

RT: Flushing time  
 Tidal inlets

**Flushing time**

RT: Estuarine dynamics  
 Flushing  
 Lake dynamics  
 Pollutants  
 Renewal  
 Residence time

**Flute casts**

USE: **Current marks**

**Fluvial deposition features**

USE: **Fluvial features**

**Fluvial deposits**

RT: Fluvial features  
 Fluvial sedimentation  
 Fluvial transport

**Fluvial features**

UF: Fluvial deposition features  
 RT: Alluvial fans  
 Bed forms  
 Channels  
 Deltas  
 Deposition features  
 Flood plains  
 Fluvial deposits  
 Fluvial morphology  
 Levees  
 River basins  
 River meanders  
 River valleys  
 Rivers

**Fluvial morphology**

UF: River morphology  
 BT: Geomorphology  
 RT: Alluvial deposits  
 Deltas  
 Distributaries  
 Flood plains  
 Fluvial features  
 Fluvial transport  
 Headwaters  
 River banks  
 River beds  
 River engineering  
 River meanders  
 River valleys  
 Rivers  
 Terraces  
 Tributaries

**Fluvial sedimentation**

BT: Sedimentation  
 RT: Alluvial deposits  
 Deltaic deposits  
 Fluvial deposits  
 Fluvial transport  
 Rivers  
 Sedimentary environments

**Fluvial transport**

BT: Sediment transport  
 RT: Alluvial deposits  
 Channel flow  
 Fluvial deposits  
 Fluvial morphology  
 Fluvial sedimentation  
 River discharge  
 Rivers

**Fly ash**

BT: Ashes  
 RT: Air pollution  
 Atmospheric particulates

**Flyfishing**

USE: **Sport fishing**

**Flying**

UF: Bird flying  
 BT: Locomotion  
 RT: Aquatic birds  
 Flight behaviour

**Flysch**

BT: Clastics  
 RT: Terrigenous sediments

**Foams**

SN: Including foaming phenomena on the surface of water bodies  
 RT: Air bubbles  
 Capillarity  
 Colloids  
 Surface chemistry  
 Whitecaps

**Foetus**

UF: Fetus  
 BT: Embryos  
 RT: Parturition  
 Placenta

**Fog**

UF: Advection fog  
 Arctic sea smoke  
 Evaporation fog  
 Mist  
 Radiation fog  
 Sea fog  
 Sea mist  
 Sea smoke  
 Steam fog  
 BT: Clouds  
 RT: Dew point  
 Haze  
 Upwelling  
 Visibility  
 Weather

**Folds**

UF: Folds (geology)  
 BT: Geological structures  
 NT: Anticlines  
 Geosynclines  
 Nappes  
 Structural domes  
 Synclines  
 RT: Rock deformation

**Folds (geology)**

USE: **Folds**

**Food**

SN: Use of a more specific term is recommended  
 NT: Human food  
 Livestock food  
 RT: Dietary fibre  
 Food absorption  
 Food additives  
 Food availability  
 Food composition  
 Food consumption  
 Food conversion  
 Food fish  
 Food poisoning  
 Food technology  
 Food webs

## ASFA THESAURUS

- Hunger  
Nutrition  
Nutritive value  
Pesticide residues
- Food-chain approach**  
SN: FAO defines the food chain approach as recognition that the responsibility for the supply of food that is safe, healthy and nutritious is shared along the entire food chain by all involved with the production, processing and trade of food. As such, the implications are much broader than those aspects limited to food safety systems  
BT: Policies  
RT: Biosecurity  
Codex standards  
Consumer protection  
Food contamination  
Food safety  
Food traceability  
Health and safety  
Public health
- Food absorption**  
UF: Absorption (food)  
RT: Biological uptake  
Digestion  
Food  
Nutrition
- Food additives**  
UF: Food colours  
Food stabilizers  
BT: Additives  
RT: Antioxidants  
Bioactive compounds  
Food  
Food composition  
Food technology  
Vitamins
- Food aid**  
SN: International transactions that result in the provision of aid in the form of a food commodity in a country deemed in need of receiving such aid.  
BT: Aid  
RT: Famine  
Subsidies
- Food availability**  
BT: Availability  
RT: Biotic factors  
Biotic pressure  
Competition  
Environmental factors  
Famine  
Food  
Food chains  
Food consumption  
Food insecurity  
Food organisms
- Food security  
Starvation
- Food chains**  
BT: Food webs  
RT: Bioenergetics  
Decomposers  
Feeding behaviour  
Food availability  
Food organisms  
Grazing  
Trophic levels  
Veterinary drugs residues
- Food colours  
USE: **Food additives**
- Food composition**  
SN: Chemical composition of industrial aquatic products for human and animal consumption  
BT: Chemical composition  
RT: Dietary fibre  
Food  
Food additives  
Food conversion  
Food technology  
Nutritive value
- Food consumption**  
UF: Consumption  
Food consumption rate  
RT: Animal nutrition  
Bioenergetics  
Calories  
Digestion  
Ecological efficiency  
Food  
Food availability  
Nutritional requirements  
Stable isotopes  
Stomach content
- Food consumption rate  
USE: **Food consumption**
- Food contamination**  
UF: Contaminants (food)  
Contamination (food)  
BT: Pollution  
RT: Chemical pollutants  
Consumer protection  
Food-chain approach  
Food poisoning  
Food safety  
Microbial contamination  
Public health
- Food conversion**  
SN: Efficiency of food conversion by organisms  
UF: Assimilation (food)  
Conversion efficiency  
Food conversion rate  
RT: Animal nutrition  
Digestion  
Feeding
- Food  
Food composition
- Food conversion rate  
USE: **Food conversion**
- Food cycle  
USE: **Trophodynamic cycle**
- Food fish**  
UF: Edible fish  
BT: Fish  
RT: Fish consumption  
Food  
Food organisms
- Food for human consumption  
USE: **Human food**
- Food insecurity**  
SN: The state of being without reliable access to a sufficient quantity of affordable, nutritious food  
RT: Famine  
Food availability  
Food resources  
Human food  
Nutrition  
Policies  
Socioeconomic aspects  
Starvation
- Food organisms**  
UF: Fish food organisms  
Live feed  
Live food  
Natural food  
BT: Aquatic organisms  
RT: Aquatic insects  
Food availability  
Food chains  
Food fish  
Forage fish  
Phytoplankton  
Zooplankton
- Food poisoning**  
RT: Allergic reactions  
Bacteria  
Botulism  
Food  
Food contamination  
Food safety  
Microbial contamination  
Toxicity
- Food preferences**  
RT: Feeding behaviour  
Grazing
- Food processing  
USE: **Food technology**
- Food requirements  
USE: **Nutritional requirements**

**Food resources**

SN: For human consumption only  
 BT: Natural resources  
 RT: Food insecurity  
 Food security  
 Freshwater resources  
 Human food  
 Living resources  
 Marine resources  
 Renewable resources  
 Unconventional resources

**Food safety**

SN: Techniques and procedures for protecting the food supply from microbial, chemical (i.e. rancidity, browning) and physical (i.e. drying out, infestation) hazards or contamination that may occur during all stages of food production and handling-growing, harvesting, processing, transporting, preparing, distributing and storing  
 RT: Biosecurity  
 Consumer protection  
 Food-chain approach  
 Food contamination  
 Food poisoning  
 Food traceability  
 HACCP  
 Health and safety  
 Human food  
 Public health  
 Quality control

**Food security**

SN: Physical and economic access, at all times, to sufficient, safe and nutritious food to meet dietary needs and food preferences for an active and healthy life  
 UF: Freedom from hunger  
 RT: Community fishing  
 Famine  
 Food availability  
 Food resources  
 Human food  
 Nutrition  
 Policies  
 Socioeconomic aspects  
 Starvation

Food stabilizers

USE: **Food additives**

**Food technology**

SN: Restricted to industrial aquatic products for human and animal consumption  
 UF: Food processing  
 BT: Technology  
 RT: Food  
 Food additives  
 Food composition

Food traceability  
 Microbiology  
 Processing fishery products  
 RFID tags

**Food traceability**

SN: The ability to track any food, feed, food-producing animal or substance that will be used for consumption, through all stages of production, processing and distribution  
 BT: Quality control  
 RT: Food-chain approach  
 Food safety  
 Food technology  
 Inspection  
 Marketing  
 Processing fishery products  
 Product labelling  
 Public health  
 RFID tags

**Food webs**

NT: Food chains  
 RT: Biological production  
 Biomanipulation  
 Cycles  
 Ecosystems  
 Energy flow  
 Fishing down aquatic food webs  
 Food  
 Heterotrophic organisms  
 Stable isotopes  
 Trophic relationships  
 Trophodynamic cycle

**Forage fish**

SN: The prey of predatory fish  
 BT: Fish  
 RT: Food organisms  
 Forage species

**Forage species**

SN: Species used as prey by a predator for its food  
 RT: Forage fish

**Foraging behaviour**

BT: Feeding behaviour  
 RT: Grazing

**Foraminifera**

SN: Before 2016 search also as a taxonomic descriptor  
 RT: Foraminiferal ooze  
 Fossil foraminifera  
 Micropalaeontology

**Foraminiferal ooze**

UF: Globigerina ooze  
 BT: Calcareous ooze  
 RT: Foraminifera  
 Fossil foraminifera

**Forced convection**

BT: Convection  
 RT: Laminar flow  
 Prandtl number

**Forced oscillations**

BT: Oscillations

**Forces**

NT: Centrifugal force  
 Centripetal force  
 RT: Gravitation  
 Inertia

**Forces (mechanics)**

NT: Coriolis force  
 Friction  
 Gravity  
 Loads (forces)  
 Stress (mechanics)

**Forearc basins**

BT: Structural basins  
 RT: Active margins  
 Island arcs  
 Marginal basins  
 Ocean basins  
 Oceanic trenches  
 Subduction

Forecasting

USE: **Prediction**

Forecasts

USE: **Prediction**

**Foreign fishing**

SN: Refers to commercial fishing by foreign vessels  
 BT: Commercial fishing  
 RT: Exclusive economic zone  
 Fishery disputes  
 Fishery policy  
 Fishery protection  
 Fishing rights

Foreign trade

USE: **Trade**

**Foreset beds**

BT: Deltaic features  
 RT: Deltaic deposits  
 Deltaic sedimentation

**Foreshore**

UF: Beach face  
 BT: Beach features

**Forest industry**

BT: Industries  
 RT: Deforestation  
 Forests

**Forests**

RT: Deforestation  
 Forest industry

**Fork length**

SN: A measurement used frequently for fish length when the tail has a fork shape. Projected straight distance between the tip of the fish and the fork of the tail. Before 2016, Search various combinations of the following terms: Length, size distribution, body size, length-weight relationships, morphometry etc.

BT: Length

RT: Length-weight relationships  
Stock assessment

**Form drag**

BT: Drag

RT: Bed roughness  
Bottom friction

**Formulae**

RT: Mathematical models

**Forward scattering**

SN: Forward scattering of sound waves

BT: Sound scattering

RT: Backscatter

**Fossil assemblages**

RT: Biostratigraphy  
Fossils

**Fossil diatoms**

BT: Vegetal fossils

RT: Diatom ooze

**Fossil foraminifera**

BT: Animal fossils

RT: Foraminifera  
Foraminiferal ooze

**Fossil fueled power plants**

BT: Power plants

RT: Fossil fuels

**Fossil fuels**

UF: Fuel resources

BT: Fuels

Subsurface deposits

NT: Coal

Natural gas

Petroleum

RT: Energy resources

Fossil fueled power plants

Green energy

Hydrocarbons

Nonrenewable resources

**Fossil pollen**

BT: Vegetal fossils

RT: Palynology

Pollen

**Fossil pteropods**

BT: Animal fossils

RT: Pteropod ooze

**Fossil radiolaria**

BT: Animal fossils

RT: Radiolarian ooze

**Fossil sea water**

BT: Sea water

RT: Fjords

Palaeoceanography

Relict lakes

**Fossil spores**

BT: Vegetal fossils

RT: Palynology

Spores

Fossilized tracks

BT: **Trace fossils**

**Fossils**

NT: Animal fossils

Vegetal fossils

RT: Age determination

Archaeology

Biofacies

Calcification

Fossil assemblages

Living fossils

Palaeoclimate

Palaeoecology

Palaeontology

Trace fossils

Foulers

USE: **Fouling organisms**

**Fouling**

RT: Antifouling substances

Degradation

Fouling control

Fouling organisms

Scaling

**Fouling control**

UF: Fouling prevention

BT: Control

RT: Antifouling substances

Biological control

Coating materials

Coating processes

Fouling

Fouling organisms

Maintenance and repair

**Fouling organisms**

UF: Foulers

BT: Aquatic organisms

RT: Biofilms

Biological damage

Boring organisms

Fouling

Fouling control

Fouling prevention

USE: **Fouling control**

**Foundations**

UF: Marine foundations

Seabed foundations

NT: Piles

RT: Settlement (structural)

**Fourier analysis**

SN: Before 1982 search

HARMONIC ANALYSIS

BT: Mathematical analysis

RT: Fourier transforms

Harmonic analysis

Signal processing

Tidal analysis

Time series analysis

Waveform analysis

**Fourier transforms**

BT: Functional analysis

RT: Fourier analysis

Fovea

USE: **Retinas**

Fracking

USE: **Hydraulic fracturing**

**Fracture zones**

BT: Submarine features

RT: Escarpments

Fault zones

Mid-ocean ridges

Plate tectonics

Seafloor spreading

Valleys

**Fractures**

BT: Defects

RT: Cracks

**Frame surveys**

SN: A complete description of the structure of any system to be sampled for collection of statistics. In fisheries, it may include the inventory of ports, landing places, number and type of fishing units (boats and gears), and a description of fishing and landing activity patterns, fish distribution routes, processing and marketing patterns, supply centres for goods and services, etc.

BT: Surveys

**Framework**

SN: Use as a modifier together with appropriate Thesaurus term(s), e.g. Framework + Planning or Framework + Policies etc.

RT: Best practices

Documentation

Methodology

Planning

**Francolite**

BT: Phosphate minerals

**Freak waves**

BT: Water waves  
RT: Catastrophic waves

Free-fall corers

USE: **Corers**

Free-fall equipment

USE: **Free-fall instruments**

**Free-fall instruments**

UF: Free-fall equipment  
BT: Instruments  
NT: Free-fall profilers  
RT: Oceanographic equipment

**Free-fall profilers**

BT: Free-fall instruments  
Profilers  
RT: Velocity profilers

**Free-swimming vehicles**

SN: Underwater vehicles with 3-D manoeuvrability  
BT: Underwater vehicles  
NT: Tethered free-swimming vehicles  
RT: Self-propelled vehicles  
Submersibles  
Untethered vehicles

**Free air anomalies**

BT: Gravity anomalies  
RT: Free air gravity charts

Free air correction

USE: **Gravity corrections**

**Free air gravity charts**

BT: Gravity charts  
RT: Free air anomalies

**Free energy**

BT: Thermodynamic properties  
RT: Energy  
Enthalpy

Freedom from hunger

USE: **Food security**

**Freeze-dried products**

BT: Dried products  
RT: Freeze-drying

**Freeze-drying**

SN: Drying in frozen state; implies water vacuum  
BT: Drying  
RT: Freeze-dried products

Freeze branding

USE: **Cold branding**

**Freezing**

BT: Phase changes  
RT: Antifreezes  
Cooling  
Freezing point  
Freezing storage  
Ice formation  
Icing  
Melting  
Refrigeration  
Solidification  
Sublimation  
Thawing

**Freezing point**

BT: Transition temperatures  
RT: Freezing

Freezing point depressants

USE: **Antifreezes**

**Freezing storage**

UF: Cryopreservation  
Cryoprotectants  
Frozen storage  
BT: Cold storage  
RT: Freezing  
Frozen products

**Freons**

BT: Fluorinated hydrocarbons

**Frequency**

NT: Brunt-Vaisala frequency  
High frequency  
Low frequency  
Resonant frequency  
Wave frequency  
RT: Dynamic response  
Frequency analysis  
Frequency spectra  
Periodicity

Frequency (time)

USE: **Periodicity**

**Frequency analysis**

BT: Statistical analysis  
RT: Frequency  
Spectral analysis

**Frequency spectra**

BT: Spectra  
RT: Energy spectra  
Frequency

**Fresh water**

SN: Including any type of surface and subsurface waters. Before 1982 search also FRESHWATER  
BT: Water  
RT: Drinking water  
Freshwater aquaculture  
Freshwater ecology  
Freshwater lakes  
Freshwater pollution

Freshwater-seawater interface

USE: **Estuarine fronts**

**Freshwater aquaculture**

UF: Inland water aquaculture  
BT: Aquaculture  
RT: Agropisciculture  
Algal culture  
Bait culture  
Cage culture  
Extensive culture  
Fish culture  
Fresh water  
Freshwater fish  
Freshwater organisms  
Frog culture  
Hybrid culture  
Monoculture  
Prawn culture  
Raceway culture  
Rice field aquaculture  
Shellfish culture  
Thermal aquaculture

Freshwater crab culture

USE: **Crab culture**

**Freshwater crustaceans**

UF: Crustaceans (freshwater)  
BT: Aquatic crustaceans  
Freshwater invertebrates  
RT: Crustacean culture  
Crustacean fisheries  
Crustacean larvae  
Shellfish

**Freshwater ecologists**

BT: Ecologists  
Freshwater scientists  
RT: Freshwater ecology

**Freshwater ecology**

UF: Biological limnology  
Limnology (biological)  
Stream ecology  
BT: Ecology  
Freshwater sciences  
RT: Aquatic communities  
Fishery limnology  
Fresh water  
Freshwater ecologists  
Freshwater organisms  
Inland water environment

Freshwater environment

USE: **Inland water environment**

**Freshwater fish**

BT: Fish  
Freshwater organisms  
NT: Coarse fish  
RT: Freshwater aquaculture  
Herbivorous fish  
Inland fisheries  
Inland water environment  
Potadromous migrations



**Freshwater ice**

BT: Ice  
RT: Glaciers  
Lake ice  
Land ice

**Freshwater invertebrates**

BT: Aquatic invertebrates  
Freshwater organisms  
NT: Freshwater crustaceans  
Freshwater molluscs  
RT: Aquatic insects  
Brackishwater invertebrates  
Invertebrate zoology  
Macroinvertebrates  
Marine invertebrates  
Microinvertebrates

Freshwater lagoons  
USE: **Inland lagoons**

**Freshwater lakes**

BT: Lakes  
RT: Fresh water

**Freshwater mammals**

BT: Aquatic mammals  
Freshwater organisms  
RT: Marine mammals

**Freshwater molluscs**

UF: Molluscs (freshwater)  
Mollusks (freshwater)  
BT: Aquatic molluscs  
Freshwater invertebrates  
RT: Glochidia  
Malacology  
Mollusc culture  
Mollusc fisheries  
Shellfish

**Freshwater organisms**

BT: Aquatic organisms  
NT: Freshwater fish  
Freshwater invertebrates  
Freshwater mammals  
Freshwater weeds  
RT: Freshwater aquaculture  
Freshwater ecology  
Freshwater resources

**Freshwater parks**

SN: Freshwater areas protected against human impact.  
BT: Protected areas  
RT: Marine parks  
Protected resources  
Recreational waters  
Refuges  
Sanctuaries

**Freshwater plants**

SN: Any microscopic or macroscopic vegetal organism living in the freshwater environment  
BT: Aquatic plants

NT: Freshwater weeds

**Freshwater pollution**

BT: Water pollution  
RT: Acid rain  
Fresh water  
Groundwater pollution

**Freshwater resources**

BT: Natural resources  
RT: Food resources  
Freshwater organisms  
Living resources  
Mineral resources  
Renewable resources

**Freshwater sciences**

BT: Aquatic sciences  
NT: Freshwater ecology  
RT: Freshwater scientists  
Hydrobiology  
Hydrology  
Limnology

**Freshwater scientists**

UF: Limnologists  
BT: Scientific personnel  
NT: Freshwater ecologists  
RT: Freshwater sciences  
Limnology

Freshwater sedimentation

USE: **Sedimentation**

Freshwater springs

USE: **Water springs**

**Freshwater turtles**

BT: Aquatic reptiles  
RT: Sea turtles

**Freshwater weeds**

UF: Pond weeds  
BT: Freshwater organisms  
Freshwater plants  
Weeds

**Friction**

BT: Forces (mechanics)  
NT: Bottom friction  
Tidal friction  
RT: Drag  
Energy dissipation  
Roughness  
Wear

**Fringing reefs**

BT: Coral reefs  
RT: Barrier reefs

**Frog culture**

UF: Amphibian culture  
Frog farms  
BT: Cultures  
RT: Agropisciculture  
Freshwater aquaculture  
Polyculture

Pond culture  
Worm culture

Frog farms  
USE: **Frog culture**

**Frontal features**

SN: Mesoscale features of convergence in atmosphere and oceans  
BT: Mesoscale features  
RT: Atmospheric fronts  
Convergence  
Convergence zones  
Frontogenesis  
Oceanic fronts

Frontiers (national)  
USE: **International boundaries**

**Frontogenesis**

BT: Interface phenomena  
RT: Air masses  
Convergence  
Frontal features  
Fronts  
Water masses

**Fronts**

SN: Use of a more specific term is recommended  
NT: Atmospheric fronts  
Coastal fronts  
Oceanic fronts  
Polar fronts  
Saline fronts  
Thermal fronts  
RT: Convergence zones  
Frontogenesis  
Interfaces

Fronts (meteorology)  
USE: **Atmospheric fronts**

Frost resistance  
USE: **Cold resistance**

**Froude number**

RT: Dimensionless numbers  
Fluid flow  
Inertia  
Kinetic energy  
Potential energy  
Reynolds number

**Frozen products**

BT: Processed fishery products  
RT: Chilled products  
Freezing storage  
Refrigeration  
Thawing

Frozen storage  
USE: **Freezing storage**

**Fry**  
BT: Fish larvae

RT: Fingerlings  
Hatching  
Seed (aquaculture)  
Seed collection

**Fucose**  
BT: Monosaccharides

**Fucosterol**  
BT: Sterols

**Fuel economy**  
SN: Energy saving measures,  
including equipment and  
methods  
RT: Fuels  
Resource conservation

Fuel resources  
USE: **Fossil fuels**

**Fuels**  
UF: Diesel fuels  
Heating fuels  
Motor fuels  
NT: Fossil fuels  
Liquefied petroleum gas  
RT: Fuel economy  
Lubricants  
Vessel wastes

**Fulvic acids**  
BT: Organic acids  
RT: Humic acids  
Humus

**Functional analysis**  
UF: Laplace transformation  
BT: Numerical analysis  
NT: Fourier transforms  
Harmonic analysis  
RT: Finite element method

**Functional morphology**  
BT: Biology  
RT: Organism morphology

Functional traits  
USE: **Biological traits**

Funding  
USE: **Financing**

**Fungal diseases**  
UF: Fungous diseases  
Fungus diseases  
Mycoses  
Mycotic diseases  
BT: Infectious diseases  
RT: Fungi  
Fungicides  
Gill disease  
Mycology  
Parasitic diseases

Fungal gill disease  
USE: **Gill disease**

Fungal vaccines  
USE: **Vaccines**

**Fungi**  
SN: Before 2016 search also as a  
taxonomic descriptor  
RT: Aquatic plants  
Bioerosion  
Conidia  
Decomposers  
Fungal diseases  
Fungicides  
Microbial contamination  
Microbiological analysis  
Microbiological culture  
Microorganisms  
Mycology  
Spores

**Fungicides**  
SN: Before 1982 search  
PESTICIDES  
UF: Antifungals  
Slimicides  
BT: Pesticides  
RT: Antibiotics  
Fungal diseases  
Fungi  
Mycology

Fungous diseases  
USE: **Fungal diseases**

Fungus diseases  
USE: **Fungal diseases**

Fur  
USE: **Hair**

Furane  
USE: **Furans**

**Furans**  
UF: Furane  
Furfuran  
Polychlorinated dibenzofurans  
BT: Chlorinated hydrocarbons

Furfuran  
USE: **Furans**

Furrows (deep-sea)  
USE: **Deep-sea furrows**

Furunculosis  
USE: **Boil disease**

Fyke nets  
USE: **Trap nets**

Fyords  
USE: **Fjords**

Gabbros  
BT: **Igneous rocks**

**Gadoid fisheries**  
UF: Capelin fisheries  
Cod fisheries  
Haddock fisheries  
Hake fisheries  
Pollack fisheries  
Whiting fisheries  
BT: Finfish fisheries  
RT: Trawling

**Gadolinium**  
BT: Lanthanides  
RT: Gadolinium isotopes

**Gadolinium isotopes**  
BT: Isotopes  
RT: Gadolinium  
Rare earths

Galatheid fisheries  
USE: **Squat lobster fisheries**

**Gale force winds**  
SN: Winds of 28-55 knots  
BT: Winds  
RT: Beaufort scale  
Gusts  
Hurricanes

Gales  
USE: **Storms**

**Gall bladder**  
BT: Bladders  
RT: Bile

**Gallium**  
BT: Heavy metals  
RT: Ferromanganese nodules

**Game fish**  
UF: Sport fish  
BT: Fish  
RT: Sport fishing  
Sport fishing statistics

**Game theory**  
BT: Operations research  
RT: Mathematical models  
Mathematical programming  
Numerical analysis  
Probability theory  
Simulation

**Gametes**  
SN: Before 1995 search SEXUAL  
CELLS  
UF: Germinal cells  
BT: Sexual cells

**Gametogenesis**  
BT: Morphogenesis  
NT: Oogenesis  
Spermatogenesis  
RT: Sexual maturity

**Gametophytes**

BT: Developmental stages  
 RT: Haploids  
 Life cycle  
 Mitosis  
 Plant growth  
 Spores

**Gamma radiation**

UF: Gamma rays  
 BT: Electromagnetic radiation  
 RT: Gamma spectroscopy

## Gamma ray transmission

USE: **Gamma spectroscopy**

## Gamma rays

USE: **Gamma radiation**

**Gamma spectroscopy**

UF: Gamma ray transmission  
 BT: Spectroscopic techniques  
 RT: Gamma radiation  
 Radioactivity

## Gammaglobulins

USE: **Globulins**

**Ganglia**

UF: Ganglion  
 Nerve ganglia  
 BT: Central nervous system  
 RT: Brain  
 Nerves  
 Nervous tissues

## Ganglion

USE: **Ganglia**

## Gangrenes

USE: **Necroses**

## Garbage

USE: **Litter**

**Garnet**

BT: Silicate minerals  
 RT: Placers

## Gas

USE: **Gases**

## Gas-oil interface

USE: **Oil-gas interface**

## Gas bladders

USE: **Swim bladder**

## Gas bubble disease

USE: **Bubble disease**

**Gas chromatography**

BT: Chromatographic techniques

**Gas condensate fields**

UF: Condensate fields  
 BT: Oil and gas fields

RT: Gas condensates

**Gas condensates**

BT: Petroleum  
 RT: Gas condensate fields  
 Natural gas

## Gas embolism

USE: **Bubble disease**

**Gas exchange**

UF: Gas transfer  
 RT: Air-water exchanges  
 Air-water interface  
 Gases  
 Sediment-water exchanges

**Gas fields**

BT: Oil and gas fields  
 RT: Natural gas

**Gas flaring**

UF: Flaring  
 RT: Oil treating  
 Waste disposal

## Gas gathering

USE: **Gathering lines**

**Gas hydrates**

UF: Solid gas hydrates  
 BT: Hydrocarbons  
 RT: Methane

## Gas industry

USE: **Oil and gas industry**

**Gas oil separation**

UF: Oil gas separation  
 BT: Separation  
 RT: Oil and gas production

**Gas processing**

SN: For field operations  
 RT: Liquefied natural gas  
 Oil and gas production  
 Separation

**Gas production**

SN: Pertains to surface equipment  
 and methods used to produce  
 natural gas from underground  
 reservoirs  
 BT: Oil and gas production  
 RT: Hydraulic fracturing  
 Natural gas

**Gas seepages**

BT: Seepages  
 RT: Gas turbation  
 Natural gas

**Gas solubility**

BT: Solubility  
 RT: Gases

**Gas terminals**

RT: Liquefied petroleum gas  
 Natural gas  
 Oil and gas industry  
 Pipelines  
 Port installations  
 Tanker terminals

## Gas transfer

USE: **Gas exchange**

**Gas turbation**

BT: Sediment mixing  
 RT: Diagenesis  
 Gas seepages  
 Mixing processes  
 Pock marks

**Gas water separation**

BT: Separation

## Gas well blowouts

USE: **Blowouts**

**Gases**

UF: Gas  
 BT: Fluids  
 NT: Atmospheric gases  
 Biogas  
 Breathing mixtures  
 Compressed gas  
 Dissolved gases  
 Natural gas  
 Rare gases  
 RT: Air  
 Ammonia  
 Artificial aeration  
 Gas exchange  
 Gas solubility  
 Liquids  
 Oil-gas interface

**Gastric evacuation**

RT: Excretion  
 Stomach content

## Gastrointestinal system

USE: **Digestive system**

**Gastropod culture**

BT: Mollusc culture  
 NT: Abalone culture  
 Conch culture  
 Topshell culture  
 RT: Gastropod fisheries

**Gastropod fisheries**

UF: Abalone fisheries  
 Conch fisheries  
 Ormer fisheries  
 Sea snail fisheries  
 Whelk fisheries  
 Winkle fisheries  
 BT: Mollusc fisheries  
 RT: Gastropod culture  
 Marine fisheries  
 Trap fishing

**Gathering lines**

UF: Gas gathering  
 BT: Pipelines  
 RT: Flowlines

**Gauges**

BT: Measuring devices  
 NT: Strain gauges  
 Tide gauges

**Gaussian distribution**

BT: Distribution  
 RT: Statistical analysis

Gazeteers

USE: **Gazetteers**

**Gazetteers**

SN: Before 1995 search  
 GAZETEERS  
 UF: Gazetteers  
 BT: Documents  
 RT: Atlases

**Gear construction**

UF: Cage construction  
 Net construction  
 RT: Codends  
 Fishing gear  
 Gear materials  
 Gear research

Gear efficiency

USE: **Gear selectivity**

**Gear handling**

RT: Davits  
 Deck equipment  
 Deployment  
 Recovery  
 Winches

**Gear materials**

SN: Description and different types of synthetic material used in construction of gear, fishing nets, aquaculture equipment  
 BT: Materials  
 NT: Netting materials  
 Yarns  
 RT: Fishing gear  
 Gear construction  
 Gear research

**Gear research**

RT: Experimental fishing  
 Fishery engineering  
 Fishing gear  
 Gear construction  
 Gear materials  
 Gear selectivity

**Gear selectivity**

SN: Restricted to biological sampling and fishing gear  
 UF: Gear efficiency

Trawl selectivity  
 NT: Mesh selectivity  
 RT: Fishing gear  
 Gear research

**Geiger counters**

BT: Counters  
 RT: Radioactivity

**GEK**

UF: Geomagnetic electrokinetograph  
 RT: Current measuring equipment  
 Electric potential  
 Oceanographic equipment

**Gelatinous zooplankton**

BT: Zooplankton  
 RT: Jellyfish blooms

**Gelbstoff**

UF: Yellow substance  
 RT: Water colour

**Gels**

BT: Colloids  
 RT: Thixotropy

**Gemmules**

RT: Asexual reproduction  
 Budding  
 Colonies

**Gender**

SN: Refers to the socially constructed roles, behaviours, activities, and attributes that a given society considers appropriate for men and women. Before 2016 search also SEX  
 UF: Gender discrimination  
 Gender equality  
 Gender roles  
 NT: Females  
 Males  
 Men  
 Women  
 RT: Sex

Gender discrimination

USE: **Gender**

Gender equality

USE: **Gender**

Gender roles

USE: **Gender**

**Gene banks**

SN: A biorepository which preserve genetic material in the form of complete DNA e.g. seeds, tissue etc.  
 UF: Tissue banks  
 BT: Biological collections  
 RT: Archives  
 Biodiversity

Gene libraries  
 Genetic techniques  
 Genetics  
 Sample storage

**Gene expression**

RT: Genes

**Gene libraries**

SN: A biorepository which preserve genetic material in the form of a large collection of cloned individual genes from an organism's DNA. This collection, called a library should be either a) large enough to potentially contain a clone of every individual gene the organism has (genomic library) or b), using RNA instead of DNA, contain a clone of a more limited number of individual genes of the organism (cDNA library)

UF: cDNA libraries

DNA banks

Genomic libraries

BT: Biological collections

RT: Gene banks

Genetics

Gene mutations

USE: **Mutations**

**Gene pool**

SN: The sum total of all the genes of all the individuals in a population  
 RT: Alleles  
 Genomes  
 Species diversity

**Gene products**

RT: Genes

**Genecology**

BT: Ecology  
 RT: Genetic diversity  
 Genetic drift  
 Genetics

General circulation (atmospheric)

USE: **Atmospheric circulation**

General circulation (oceans)

USE: **Ocean circulation**

Generation (sound waves)

USE: **Sound generation**

Generation (water waves)

USE: **Wave generation**

Generators

USE: **Electric generators**

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**Genes**

BT: Chromosomes  
 NT: Alleles  
 RT: DNA  
 DNA fingerprinting  
 DNA replication  
 Gene expression  
 Gene products  
 Genetics  
 Genotypes  
 Genotyping  
 Mutations  
 Ormentation  
 Promoters  
 RNA replication

**Genetic abnormalities**

BT: Abnormalities  
 RT: Albinism  
 Genetics  
 Mutations  
 Teratogens  
 Teratology

**Genetic distance**

UF: Distance (genetics)  
 RT: Bioselection  
 Genetic drift  
 Genetic isolation  
 Genetics  
 Population genetics

**Genetic diversity**

UF: Genetic variation  
 RT: Biodiversity  
 Genecology

**Genetic drift**

UF: Drift (genetic)  
 Genetic selection  
 Sewall wright effect  
 BT: Bioselection  
 RT: Genecology  
 Genetic distance  
 Genetic isolation  
 Mutations  
 Population genetics

Genetic engineering

USE: **Biotechnology**

Genetic factors

USE: **Genomes**

Genetic fingerprinting

USE: **DNA fingerprinting**

**Genetic isolation**

UF: Isolation (genetics)  
 BT: Isolating mechanisms  
 RT: Genetic distance  
 Genetic drift

**Genetic markers**

SN: A gene or DNA sequence  
 having a known location on a

chromosome and associated  
 with a particular gene or trait -  
 can be used in family or  
 population studies

UF: Chromosome markers  
 DNA markers  
 Molecular markers  
 BT: Biomarkers  
 RT: Chromosomes  
 DNA  
 DNA fingerprinting  
 Genetic techniques  
 Genetics

Genetic polymorphism

USE: **Biopolymorphism**

Genetic profiling

USE: **DNA fingerprinting**

Genetic selection

USE: **Genetic drift**

**Genetic techniques**

NT: DNA fingerprinting  
 Microinjection  
 Polymerase chain reaction  
 Sequencing  
 RT: Biochemistry  
 Biotechnology  
 Gene banks  
 Genetic markers  
 Genetics  
 Genotyping

Genetic variation

USE: **Genetic diversity**

**Genetically modified organisms**

SN: An organism in which the  
 genetic material has been altered  
 anthropogenically by means of  
 gene or cell technologies  
 UF: GMOs  
 Transgenic organisms  
 RT: Biotechnology  
 Genetics  
 Microinjection

**Genetics**

UF: Heredity  
 BT: Biology  
 NT: Cytogenetics  
 Mutagenesis  
 Population genetics  
 RT: Biological speciation  
 Breeding  
 Clones  
 DNA fingerprinting  
 Evolution  
 Gene banks  
 Gene libraries  
 Genecology  
 Genes  
 Genetic abnormalities  
 Genetic distance  
 Genetic markers

Genetic techniques

Genetically modified organisms  
 Genomes  
 Genotypes  
 Genotyping  
 Hybridization  
 Hybrids  
 Morphogenesis  
 Mutagens  
 Mutations  
 Nucleic acids  
 Plasmids  
 Ploidy  
 Polyploids  
 Protein sequencing  
 Racial studies  
 RNA sequencing  
 Selective breeding  
 Sequencing  
 Sibling species

**Genets**

SN: Group of genetically identical  
 individuals, such as plants,  
 fungi, or bacteria, that have  
 grown in a given location, all  
 originating vegetatively, not  
 sexually, from a single ancestor  
 BT: Offspring  
 NT: Ramets

Genom

USE: **Genomes**

**Genomes**

UF: Genetic factors  
 Genom  
 RT: Chromosomes  
 DNA replication  
 Gene pool  
 Genetics  
 Genotypes  
 Haploids  
 Karyotypes  
 Microsatellites  
 Nuclei  
 RNA replication  
 Sexual cells

Genomic libraries

USE: **Gene libraries**

**Genotypes**

SN: An organism's complete  
 heritable genetic identity; its'  
 unique genome that would be  
 revealed by genome sequencing  
 RT: Biological traits  
 DNA fingerprinting  
 Genes  
 Genetics  
 Genomes  
 Genotyping  
 Hybridization  
 Karyotypes  
 Mutations  
 Phenotypes

Subpopulations  
Typology

**Genotyping**  
SN: Methods used to determine individuals' specific ALLELES or SNPS (single nucleotide polymorphisms)  
RT: Genes  
Genetic techniques  
Genetics  
Genotypes  
Methodology

**Geochemical cycle**  
BT: Chemical cycles  
NT: Biogeochemical cycle  
RT: Geochemistry

**Geochemical surveys**  
BT: Surveys  
RT: Geochemistry

**Geochemistry**  
UF: Environmental chemistry  
BT: Chemistry  
NT: Biogeochemistry  
Sediment chemistry  
RT: Atmosphere evolution  
Geochemical cycle  
Geochemical surveys  
Geological institutions  
Geology  
Geophysics  
Hydrology  
Mineralogy  
Petrology  
Seawater evolution

Geochronology  
USE: **Geochronometry**

**Geochronometry**  
SN: Measurement of geologic time. Before 1982 search also GEOCHRONOLOGY and RADIOACTIVE DATING  
UF: Age determination (earth sciences)  
Dating (earth sciences)  
Geochronology  
BT: Measurement  
NT: Radiometric dating  
RT: Age  
Chronometers  
Geological time  
Stratigraphic correlation  
Stratigraphy

**Geoclines**  
BT: Clines  
RT: Geographical distribution

**Geodesy**  
UF: Earth measurement  
BT: Geophysics  
NT: Coastal geodesy

Marine geodesy  
RT: Datum levels  
Earth tides  
Geodetic coordinates  
Geoid  
Horizon  
Isostasy  
Levelling  
Mean sea level  
Plumbline deflection

**Geodetic coordinates**  
RT: Coordinate systems  
Geodesy  
Geographical coordinates

Geodynamics  
USE: **Tectonophysics**

Geographic information systems  
USE: **GIS**

**Geographical coordinates**  
NT: Latitude  
Longitude  
RT: Cartography  
Coordinate systems  
Geodetic coordinates  
Geographical reference systems  
Map projections  
Marsden squares  
Plotting  
Position fixing

**Geographical distribution**  
SN: Distributional studies of organisms and abiotic factors in aquatic environment  
UF: Spatial distribution  
BT: Distribution  
NT: Differential distribution  
Horizontal distribution  
Meridional distribution  
Vertical distribution  
Zonal distribution  
RT: Allopatric populations  
Biological charts  
Cosmopolite species  
Ecological distribution  
Endemic species  
Endemism  
Geoclines  
Geographical isolation  
Migrations  
Quantitative distribution  
Relict species  
Sediment distribution  
Sympatric populations  
World

**Geographical exploration**  
SN: Geographical discovery - history  
BT: Exploration  
RT: Polar exploration  
Underwater exploration

**Geographical isolation**  
UF: Isolation (geographical)  
Spatial isolation  
BT: Isolating mechanisms  
RT: Geographical distribution

**Geographical reference systems**  
NT: Marsden squares  
RT: Geographical coordinates

**Geography**  
NT: Biogeography  
Palaeogeography  
RT: Cartography  
Climatology  
Geomorphology  
Mapping

**Geohydrology**  
SN: The study of water that is below the earth's surface. Before 2016 search  
HYDROLOGY  
UF: Hydrogeology  
BT: Hydrology  
RT: Aquifers  
Ground water  
Karst hydrology

**Geoid**  
RT: Earth  
Geodesy  
Geoid anomalies  
Levelling  
Mean sea level  
Micropalaeontology  
Satellite altimetry  
Surface topography

**Geoid anomalies**  
BT: Anomalies  
RT: Geoid  
Gravity anomalies  
Surface topography

Geological ages  
USE: **Geological time**

Geological charts  
USE: **Geological maps**

**Geological collections**  
SN: Collections in museums, data banks etc.  
BT: Collections  
RT: Geological samples

Geological column  
USE: **Geological time**

**Geological correlation**  
BT: Correlation  
NT: Stratigraphic correlation

**Geological data**  
BT: Data  
RT: Bathymetric data

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Geological deposition  
USE: **Sedimentation**

**Geological distribution**

SN: Distribution of biota through geological time  
BT: Distribution  
RT: Geological maps  
Geological surveys

Geological domes  
USE: **Structural domes**

**Geological equipment**

BT: Equipment  
NT: Vane devices  
RT: Geophysical equipment  
Penetrometers  
Sediment samplers  
Sediment traps  
Stratigraphic traps

Geological exploration  
USE: **Geological surveys**

Geological faults  
USE: **Faults**

**Geological hazards**

BT: Hazards  
NT: Earthquakes  
Landslides  
Volcanic eruptions  
RT: Floods  
Ground motion  
Settlement (structural)  
Slumping

**Geological history**

UF: History (geological)  
RT: Geological time  
Geology

**Geological institutions**

UF: Geophysical institutions  
BT: Research institutions  
RT: Geochemistry  
Geology  
Geophysics

Geological long range inclined asdic  
USE: **Gloria**

Geological mapping  
USE: **Geological surveys**

**Geological maps**

SN: Before 1982 search  
GEOLOGICAL CHARTS  
UF: Geological charts  
Geophysical charts  
Geophysical maps  
BT: Maps  
NT: Gravity charts  
Isopach maps  
Magnetic charts

RT: Bathymetric charts  
Geological distribution  
Geological sections  
Geological surveys  
Oceanographic atlases  
Sediment distribution  
Topographic maps

Geological oceanography  
USE: **Marine geology**

Geological record  
USE: **Geological time**

**Geological samples**

BT: Samples  
NT: Mineral samples  
Sediment samples  
RT: Geological collections  
Geological surveys

**Geological sections**

BT: Vertical sections  
RT: Echosounder profiles  
Geological maps  
Seismic profiles

**Geological structures**

NT: Faults  
Folds  
Graben  
RT: Sedimentary structures  
Structural geology

**Geological surveys**

UF: Geological exploration  
Geological mapping  
BT: Surveys  
NT: Geophysical surveys  
RT: Geological distribution  
Geological maps  
Geological samples  
Oceanographic surveys  
Seafloor mapping  
Seafloor sampling  
Seismic exploration  
Site surveys

Geological systems  
USE: **Geological time**

**Geological time**

UF: Geological ages  
Geological column  
Geological record  
Geological systems  
Geological time divisions  
Geological time scale  
Stratigraphic systems  
NT: Cenozoic  
Mesozoic  
Palaeozoic  
Phanerozoic  
Precambrian  
RT: Geochronometry  
Geological history  
Radiometric dating

Stratigraphy  
Temporal distribution

Geological time divisions  
USE: **Geological time**

Geological time scale  
USE: **Geological time**

**Geologists**

BT: Scientific personnel  
RT: Geology

**Geology**

BT: Earth sciences  
NT: Geomorphology  
Glacial geology  
Hydrology  
Lithology  
Marine geology  
Petroleum geology  
Petrology  
Sedimentology  
Stratigraphy  
Structural geology  
Tectonics  
RT: Geochemistry  
Geological history  
Geological institutions  
Geologists  
Geophysics  
Hydrogeomorphology  
Mineralogy  
Palaeontology  
Palynology

Geomagnetic electrokinetograph  
USE: **GEK**

**Geomagnetic field**

UF: Earth magnetic field  
Magnetic field (earth)  
BT: Magnetic fields  
RT: Aeromagnetic surveys  
Geomagnetism  
Magnetic anomalies  
Magnetic field elements  
Magnetic reversals  
Magnetic susceptibility  
Magnetotelluric methods  
Pole positions  
Remanent magnetization  
Telluric currents

Geomagnetic reversals  
USE: **Magnetic reversals**

Geomagnetic surveys  
USE: **Magnetic exploration**

**Geomagnetism**

UF: Earth magnetism  
Terrestrial magnetism  
BT: Geophysics  
Magnetism  
RT: Geomagnetic field  
Magnetometers

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- Magnetotelluric methods  
Palaeomagnetism
- Geomorphology**  
UF: Physiography  
BT: Geology  
NT: Coastal morphology  
Fluvial morphology  
Hydrogeomorphology  
Lake morphology  
RT: Geography  
Glacial geology  
Hydrology  
Palaeoclimatology  
Sedimentology  
Seismology  
Spelaeology  
Topographic features
- Geophones  
USE: **Seismometers**
- Geophysical charts  
USE: **Geological maps**
- Geophysical data**  
BT: Data  
NT: Geothermal data  
Gravity data  
Magnetic data  
Seismic data  
RT: Geophysical exploration  
Geophysical surveys  
Geophysics
- Geophysical equipment**  
BT: Equipment  
NT: Geothermal equipment  
Seismic equipment  
RT: Geological equipment  
Geophysical exploration  
Geophysical surveys  
Geophysics  
Gravity meters  
Magnetometers  
Oceanographic equipment  
Tiltmeters
- Geophysical exploration**  
UF: Geophysical methods  
BT: Exploration  
NT: Electrical exploration  
Electromagnetic exploration  
Geothermal exploration  
Gravity exploration  
Magnetic exploration  
Mineral exploration  
Oil and gas exploration  
Seismic exploration  
RT: Geophysical data  
Geophysical equipment  
Geophysical surveys  
Geophysics
- Geophysical institutions  
USE: **Geological institutions**
- Geophysical maps  
USE: **Geological maps**
- Geophysical methods  
USE: **Geophysical exploration**
- Geophysical surveys**  
SN: Used for surveys of specific regions using geophysical methods  
BT: Geological surveys  
NT: Gravity surveys  
RT: Geophysical data  
Geophysical equipment  
Geophysical exploration  
Geophysics  
Site surveys
- Geophysics**  
BT: Earth sciences  
NT: Geodesy  
Geomagnetism  
Palaeomagnetism  
Seismology  
Tectonophysics  
RT: Geochemistry  
Geological institutions  
Geology  
Geophysical data  
Geophysical equipment  
Geophysical exploration  
Geophysical surveys
- Geopotential  
USE: **Dynamic height**
- Geopotential anomaly  
USE: **Dynamic height anomaly**
- Geopotential topography  
USE: **Dynamic topography**
- Geosensing**  
SN: Use for remote sensing of earth surface from space. Before 1986 search also REMOTE SENSING  
UF: Earth remote sensing  
Remote sensing (earth)  
Teledetection  
BT: Remote sensing  
NT: Airborne sensing  
Satellite sensing  
RT: Electromagnetic radiation  
Scientific satellites
- Geostatistics**  
SN: A branch of statistics used for modelling spatial or spatiotemporal data  
BT: Statistics  
RT: GIS  
Hydrology  
Mineral exploration  
Modelling  
Oil reserves  
Oil reservoirs
- Petroleum geology  
Remote sensing  
Resource exploration  
Simulation  
Spatial analysis
- Geostrophic currents  
USE: **Geostrophic flow**
- Geostrophic equilibrium**  
BT: Equilibrium  
RT: Coriolis force  
Geostrophic flow  
Stream functions
- Geostrophic flow**  
SN: Before 1982 search  
GEOSTROPHIC CURRENTS  
UF: Geostrophic currents  
BT: Fluid flow  
NT: Quasi-geostrophic motion  
RT: Ageostrophic flow  
Coriolis force  
Density field  
Density stratification  
Dynamic topography  
Geostrophic equilibrium  
Geostrophic method  
Geostrophic transport  
Geostrophy  
Level of no motion  
Surface slope
- Geostrophic flow calculation  
USE: **Geostrophic method**
- Geostrophic method**  
UF: Geostrophic flow calculation  
RT: Density field  
Dynamic topography  
Geostrophic flow  
Level of no motion
- Geostrophic transport**  
UF: Geostrophic volume transport  
RT: Geostrophic flow
- Geostrophic volume transport  
USE: **Geostrophic transport**
- Geostrophic winds**  
BT: Winds  
RT: Gradient currents
- Geostrophy**  
RT: Ageostrophic flow  
Geostrophic flow
- Geosynclines**  
BT: Folds  
RT: Orogeny  
Synclines
- Geotechnical data**  
SN: Data on engineering properties of sediments and rocks



- BT: Data  
RT: Geotechnology
- Geotechnical properties  
USE: **Sediment properties**
- Geotechnics  
USE: **Geotechnology**
- Geotechnology**  
SN: Before 1986 search also SOIL MECHANICS  
UF: Geotechnics  
BT: Technology  
RT: Coastal engineering  
Geotechnical data  
Offshore engineering  
Soil mechanics  
Structural engineering
- Geotectonics  
USE: **Tectonics**
- Geothermal alteration  
USE: **Hydrothermal alteration**
- Geothermal data**  
BT: Geophysical data  
RT: Geothermal exploration
- Geothermal energy**  
BT: Energy  
RT: Geothermal power  
Hot springs  
Hydrothermal activity
- Geothermal equipment**  
BT: Geophysical equipment  
NT: Heat probes
- Geothermal exploration**  
BT: Geophysical exploration  
RT: Geothermal data
- Geothermal fields**  
USE: Hydrothermal fields
- Geothermal fluids  
USE: **Hydrothermal solutions**
- Geothermal gradient**  
BT: Temperature gradients  
RT: Thermal conductivity
- Geothermal measurement**  
UF: Sediment temperature measurement  
BT: Temperature measurement  
RT: Heat probes  
Sediment temperature
- Geothermal power**  
SN: Geothermal energy as a source of power  
UF: Hydrothermal energy  
BT: Energy resources  
Thermal power
- RT: Geothermal energy  
Green energy  
Power from the sea  
Renewable resources
- Geothermal properties**  
BT: Physical properties  
RT: Geothermal springs
- Geothermal springs**  
SN: Before 1982 search THERMAL SPRINGS  
UF: Thermal springs (geothermal)  
BT: Water springs  
NT: Hydrothermal springs  
RT: Geothermal properties  
Water temperature
- Geotropism**  
BT: Tropism  
RT: Gravity  
Gravity effects
- GER  
USE: **Production cost**
- Germanium**  
BT: Nonmetals  
RT: Germanium compounds  
Germanium isotopes
- Germanium compounds**  
BT: Chemical compounds  
RT: Germanium
- Germanium isotopes**  
BT: Isotopes  
RT: Germanium
- Germinal cells  
USE: **Gametes**
- Germination**  
RT: Seeds  
Spores
- Gestation  
USE: **Pregnancy**
- Geysers  
USE: **Hot springs**
- Giant waves**  
BT: Water waves  
RT: Wave-current interaction  
Wave height
- Gibberellins  
USE: **Phytohormones**
- Gibbing  
USE: **Gutting**
- Gibbsite**  
BT: Oxide minerals
- Gill arches
- USE: **Gills**
- Gill disease**  
UF: Bacterial gill disease  
Fungal gill disease  
BT: Fish diseases  
RT: Bacterial diseases  
Fungal diseases  
Gills
- Gill rakers  
USE: **Gills**
- Gillnets**  
UF: Drift nets  
Enmeshing nets  
Set nets  
Tangle nets  
BT: Fishing nets  
RT: Entangling nets  
Gillnetters
- Gillnetters**  
BT: Fishing vessels  
RT: Gillnets
- Gillraker counts**  
BT: Meristic counts
- Gills**  
SN: Respiratory organs usually specialized for gaseous exchange in water. Before 1982 search RESPIRATORY ORGANS  
UF: Gill arches  
Gill rakers  
BT: Respiratory organs  
RT: Aerobic respiration  
Gill disease  
Mantle  
Mantle cavity
- GIS**  
UF: Geographic information systems  
BT: Information systems  
RT: Geostatistics  
Spatial analysis  
Spatial planning
- Glacial-marine sediments  
USE: **Glacial deposits**
- Glacial deposition  
USE: **Glacial sedimentation**
- Glacial deposits**  
UF: Drift (sediments)  
Glacial-marine sediments  
Glacial drift  
NT: Boulder clay  
Glacial erratics  
RT: Allochthonous deposits  
Clastics  
Glacial erosion  
Glacial features

Glacial sedimentation  
 Glacial transport  
 Ice drift  
 Lake deposits  
 Moraines  
 Rafting  
 Terrigenous sediments  
 Varves

Glacial drift  
 USE: **Glacial deposits**

Glacial epoch  
 USE: **Pleistocene**

**Glacial erosion**  
 BT: Erosion  
 RT: Glacial deposits  
 Glacial features  
 Glacial lakes  
 Iceberg scouring  
 Ploughmarks

**Glacial erratics**  
 UF: Erratics  
 Ice-rafted detritus  
 BT: Glacial deposits  
 RT: Boulders  
 Ice ages  
 Ice rafting

**Glacial features**  
 NT: Moraines  
 RT: Deposition features  
 Eskers  
 Fjords  
 Glacial deposits  
 Glacial erosion  
 Glacial lakes  
 Glacial transport  
 Glaciers  
 Ploughmarks  
 Topographic features

**Glacial geology**  
 BT: Geology  
 RT: Geomorphology  
 Glaciers

**Glacial lakes**  
 SN: Lakes occupying basins  
 formed as a result of glaciation  
 UF: Kettle lakes  
 Tarns  
 BT: Lakes  
 RT: Glacial erosion  
 Glacial features  
 Glaciation  
 Strandlines

Glacial periods  
 USE: **Ice ages**

**Glacial sedimentation**  
 UF: Glacial deposition  
 BT: Sedimentation  
 RT: Glacial deposits

Glaciers  
 Sedimentary environments

**Glacial transport**  
 BT: Sediment transport  
 RT: Glacial deposits  
 Glacial features  
 Glaciers  
 Ice rafting

**Glaciation**  
 RT: Climatic changes  
 Deglaciation  
 Glacial lakes  
 Glaciers  
 Ice ages  
 Regressions

Glacier ice  
 USE: **Glaciers**

**Glaciers**  
 SN: Glaciers and their influence  
 on aquatic environment  
 UF: Glacier ice  
 BT: Ice  
 RT: Ablation  
 Cryosphere  
 Freshwater ice  
 Glacial features  
 Glacial geology  
 Glacial sedimentation  
 Glacial transport  
 Glaciation  
 Ice volume  
 Icebergs  
 Water resources

**Glands**  
 BT: Secretory organs  
 NT: Endocrine glands  
 Exocrine glands  
 RT: Metabolism

**Glass**  
 NT: Obsidian  
 RT: Fibre glass  
 Palagonite  
 Volcanic glass

**Glass-reinforced plastics**  
 BT: Plastics  
 RT: Fibre glass

**Glauconite**  
 BT: Micaceous

**Glitter**  
 RT: Light reflection  
 Reflectance

**Global positioning systems**  
 SN: A low cost system for finding  
 three dimensional coordinates  
 on the earth using satellites  
 UF: GPS  
 BT: Positioning systems

Global radiation  
 USE: **Solar radiation**

Global tectonics  
 USE: **Plate tectonics**

**Global warming**  
 SN: An increase in the near  
 surface temperature of the Earth.  
 This may be a result of natural  
 influences or increased  
 emissions of greenhouse gases  
 due to human activities.  
 BT: Climatic changes  
 RT: Greenhouse effect

Globalisation  
 USE: **Globalization**

**Globalization**  
 SN: An umbrella term (having  
 both positive and negative  
 connotations) as regards the  
 growing economic  
 interdependence of countries  
 worldwide through increasing  
 volume and variety of cross-  
 border transactions in goods  
 and services, free international  
 capital flows, and more rapid  
 and widespread diffusion of  
 technology.  
 UF: Globalisation  
 BT: Economics  
 RT: Environmental impact  
 Marketing  
 Pricing  
 Socioeconomic aspects  
 Trade

Globigerina ooze  
 USE: **Foraminiferal ooze**

**Globulins**  
 SN: Before 1982 search  
 PROTEINS  
 UF: Gammaglobulins  
 Serum globulins  
 BT: Proteins

**Glochidia**  
 SN: A parasitic larval stage of  
 some freshwater mussels in the  
 families Unionidae and  
 Margaritiferidae  
 BT: Molluscan larvae  
 RT: Freshwater molluscs  
 Life cycle  
 Parasites  
 Parasitism

**Gloria**  
 SN: The GLORIA sidescan sonar  
 is a system for determining the  
 topography of the ocean floor

## ASFA THESAURUS

- UF: Geological long range inclined asdic  
BT: Sonar  
RT: Side scan sonar  
Sonographs
- Glossaries**  
UF: Dictionaries  
Lexicons  
BT: Documents  
RT: Terminology
- Glucosamine**  
BT: Hexosamines  
RT: Chitin
- Glucose**  
BT: Monosaccharides  
RT: Aldehydes
- Glutamic acid**  
BT: Amino acids
- Glutathione  
USE: **Coenzymes**
- Glycerol**  
BT: Alcohols
- Glycine**  
BT: Amino acids
- Glycogen**  
BT: Carbohydrates  
RT: Liver  
Muscles
- Glycolic acid**  
BT: Organic acids
- Glycolipids  
USE: Complex lipids
- Glycoproteins**  
SN: Before 1982 search  
PROTEINS  
BT: Proteins  
RT: Antigens  
Hormones
- Glycosides**  
BT: Carbohydrates  
NT: Pigments  
Porphyrins  
Saponins  
RT: Bioactive compounds
- GMOs**  
USE: Genetically modified organisms
- Goethite**  
BT: Oxide minerals
- Gold**  
BT: Heavy metals  
Transition elements
- RT: Gold compounds  
Placers
- Gold compounds**  
BT: Chemical compounds  
RT: Gold
- Golgi apparatus**  
UF: Golgi bodies  
Golgi complex  
BT: Cell organelles  
RT: Cytoplasm
- Golgi bodies  
USE: **Golgi apparatus**
- Golgi complex  
USE: **Golgi apparatus**
- Gonad hormones  
USE: **Sex hormones**
- Gonadosomatic index**  
SN: The relationship of gonad weight to total body weight, or total body weight to gonad weight. It is used to measure sexual maturity in relation to the sexual development of gonads  
BT: Population factors  
RT: Aquaculture  
Fecundity  
Gonads  
Induced breeding  
Ovaries  
Sexual maturity  
Testes
- Gonadotropic hormones  
USE: **Sex hormones**
- Gonads**  
SN: Before 1995 search ANIMAL REPRODUCTIVE ORGANS  
BT: Animal reproductive organs  
Endocrine glands  
NT: Ovaries  
Testes  
RT: Gonadosomatic index
- Goods  
USE: **Products**
- Governance**  
SN: The activity or process of governing; a condition of ordered rule; those people charged with the duty of governing; or the manner /method / system by which a particular society is governed  
RT: Governments  
Management  
Planning  
Policies  
Stewardship
- Government policy  
USE: **Policies**
- Governments**  
UF: Federal governments  
State governments  
RT: Countries  
Governance  
Policies  
Political aspects  
Public sector
- GPS  
USE: **Global positioning systems**
- Graben**  
SN: Structural rock feature downthrown between two parallel faults relative to the surrounding area  
BT: Geological structures  
RT: Faults  
Rift valleys
- Grabs**  
BT: Sediment samplers
- Grades  
USE: **Quality**
- Gradient currents**  
BT: Water currents  
RT: Geostrophic winds
- Gradients**  
NT: Density gradients  
Pollution gradients  
Salinity gradients  
Velocity gradients  
RT: Profiles  
Slopes (topography)  
White water river recreation
- Grading (biological)  
USE: **Biological grading**
- Grading (equipment)  
USE: **Grading equipment**
- Grading devices  
USE: **Grading equipment**
- Grading equipment**  
SN: Before 2016 search  
GRADING  
UF: Grading (equipment)  
Grading devices  
BT: Equipment
- Grafting**  
SN: Transplantation, implantation or removal of tissue or organs  
RT: Histology  
Tissues
- Grafts  
USE: **Transplants**

- Grain flow**  
 BT: Sediment gravity flows  
 RT: Cohesionless sediments  
 Fluidization  
 Liquefied sediment flow
- Grain motion  
 USE: **Particle motion**
- Grain orientation**  
 BT: Orientation  
 RT: Grain properties  
 Sediment texture
- Grain packing**  
 RT: Grain properties  
 Sediment texture
- Grain properties**  
 BT: Sediment properties  
 RT: Grain orientation  
 Grain packing  
 Grain shape  
 Grain size
- Grain shape**  
 BT: Shape  
 RT: Grain properties  
 Sediment texture
- Grain size**  
 UF: Grain size distribution  
 Sediment size  
 BT: Size  
 RT: Grain properties  
 Granulometry  
 Permeability  
 Porosity  
 Sediment sorting  
 Sediment texture  
 Wet bulk density
- Grain size distribution  
 USE: **Grain size**
- Gramophone records  
 USE: **Audio recordings**
- Granite**  
 BT: Igneous rocks  
 RT: Quarries
- Granitic layer  
 USE: **Sial**
- Grants**  
 NT: Subsidies  
 RT: Fellowships  
 Financing  
 Research programmes
- Granuloma  
 USE: **Granulomas**
- Granulomas**  
 SN: A granuloma is a compact  
 (organized) collection of mature mononuclear phagocytes. It is a non-specific type of inflammatory response which may be triggered by diverse antigenic agents or by inert foreign materials  
 UF: Granuloma  
 Granulomata  
 BT: Animal diseases  
 RT: Defence mechanisms  
 Fish diseases  
 Phagocytosis
- Granulomata  
 USE: **Granulomas**
- Granulometry**  
 BT: Measurement  
 RT: Grain size
- Graphic data presentations  
 USE: **Graphics**
- Graphic methods**  
 NT: Graphical analysis  
 RT: Graphics  
 Methodology
- Graphical analysis**  
 SN: Before 1982 search  
 GRAPHIC METHODS  
 BT: Graphic methods  
 RT: Statistical analysis  
 Statistical tables
- Graphics**  
 UF: Data presentation (graphics)  
 Graphic data presentations  
 BT: Audiovisual materials  
 NT: Engineering drawings  
 Graphs  
 Illustrations  
 Map graphics  
 Maps  
 RT: Graphic methods  
 Slides (photographic)
- Graphite**  
 BT: Minerals  
 RT: Diamonds
- Graphs**  
 UF: Curves (graphs)  
 BT: Graphics  
 NT: Growth curves  
 Hodographs  
 Hypsometric curves  
 T-S diagrams  
 Wave refraction diagrams  
 RT: Flood hydrographs  
 Isopleths  
 Profiles
- Grappling gear**  
 UF: Rakes  
 BT: Fishing gear
- Gravel**  
 BT: Clastics  
 RT: Aggregates  
 Cohesionless sediments  
 Sand  
 Sediment load  
 Sediment texture  
 Soils
- Gravel pits  
 USE: **Pits**
- Gravel waves**  
 BT: Bed forms  
 RT: Transverse bed forms
- Gravimeters  
 USE: **Gravity meters**
- Gravimetric techniques**  
 BT: Analytical techniques  
 RT: Density  
 Particle concentration  
 Sediment analysis
- Gravimetry**  
 BT: Measurement  
 RT: Gravity  
 Gravity exploration  
 Gravity meters  
 Gravity surveys
- Gravitation**  
 RT: Forces  
 Gravity  
 Gravity meters
- Gravitational field  
 USE: **Gravity field**
- Gravity**  
 BT: Forces (mechanics)  
 RT: Geotropism  
 Gravimetry  
 Gravitation  
 Gravity anomalies  
 Gravity effects  
 Gravity field  
 Gravity waves  
 Plumbline deflection  
 Weight
- Gravity anomalies**  
 BT: Anomalies  
 NT: Bouguer anomalies  
 Free air anomalies  
 RT: Geoid anomalies  
 Gravity  
 Gravity charts  
 Gravity data  
 Gravity exploration  
 Gravity field  
 Magnetic anomalies
- Gravity anomaly charts  
 USE: **Gravity charts**

**Gravity charts**

UF: Gravity anomaly charts  
 BT: Geological maps  
 NT: Bouguer gravity charts  
     Free air gravity charts  
 RT: Gravity anomalies  
     Gravity exploration

**Gravity corers**

BT: Corers

**Gravity corrections**

UF: Bouguer correction  
     Eotvos correction  
     Free air correction  
     Latitude correction  
 BT: Corrections  
 RT: Gravity exploration  
     Gravity surveys

**Gravity data**

BT: Geophysical data  
 RT: Gravity anomalies  
     Gravity exploration

**Gravity effects**

BT: Environmental effects  
 RT: Geotropism  
     Gravity

**Gravity exploration**

UF: Gravity methods  
 BT: Geophysical exploration  
 RT: Coast effect  
     Gravimetry  
     Gravity anomalies  
     Gravity charts  
     Gravity corrections  
     Gravity data

**Gravity field**

SN: Before 1982 search also  
     GRAVITATIONAL FIELD  
 UF: Gravitational field  
 BT: Fields  
 RT: Gravity  
     Gravity anomalies

Gravity induced flow

USE: **Density flow**

**Gravity meters**

UF: Gravimeters  
 BT: Measuring devices  
 RT: Accelerometers  
     Geophysical equipment  
     Gravimetry  
     Gravitation

Gravity methods

USE: **Gravity exploration**

**Gravity platforms**

BT: Fixed platforms

**Gravity surveys**

BT: Geophysical surveys  
 RT: Gravimetry  
     Gravity corrections

**Gravity waves**

BT: Water waves  
 RT: Capillary waves  
     Gravity

**Graywacke**

RT: Arenites  
     Sandstone  
     Sedimentary rocks

**Grazing**

BT: Feeding behaviour  
 RT: Food chains  
     Food preferences  
     Foraging behaviour  
     Herbivores

**Green's function**

RT: Mathematical analysis

**Green energy**

SN: Renewable energy sources,  
 implying sustainability and  
 causing little or no harm to  
 human health or the  
 environment. Use of a more  
 specific terms is recommended  
 RT: Energy resources  
     Fossil fuels  
     Geothermal power  
     Hydroelectric power  
     Kinetic energy  
     Nuclear energy  
     Oil reserves  
     Potential energy  
     Power from the sea  
     Renewable resources  
     Solar power  
     Tidal energy  
     Wave energy  
     Wind farms  
     Wind power

Green tourism

USE: **Ecotourism**

**Greenhouse effect**

RT: Carbon dioxide  
     Climatic changes  
     Earth atmosphere  
     Global warming  
     Heat budget  
     Terrestrial radiation  
     Water vapour

**Greenschist facies**

BT: Metamorphic facies  
 RT: Greenschists

**Greenschists**

BT: Schists  
 RT: Greenschist facies

**Greigite**

BT: Sulphide minerals

Groins

USE: **Groynes**

Gross energy requirement

USE: **Production cost**

Ground fish

USE: **Demersal fish**

**Ground motion**

BT: Motion  
 RT: Earthquake loading  
     Earthquakes  
     Geological hazards  
     Seismic activity  
     Seismology  
     Surface seismic waves

Ground swell

USE: **Swell**

**Ground water**

UF: Phreatic water  
     Underground water  
 BT: Water  
 RT: Aquifers  
     Coastal aquifers  
     Geohydrology  
     Groundwater pollution  
     Groundwater recharge  
     Hyporheic zone  
     Karst  
     Karst hydrology  
     Percolation  
     Saline intrusion  
     Spring streams  
     Water resources  
     Water table  
     Watersheds

Groundfish

USE: **Demersal fish**

**Groundings**

BT: Marine accidents  
 RT: Keel clearance  
     Navigational safety  
     Ship losses  
     Shoals

**Groundwater pollution**

BT: Water pollution  
 RT: Coastal aquifers  
     Faecal pollution  
     Freshwater pollution  
     Ground water  
     Marine pollution  
     Sediment pollution

**Groundwater recharge**

SN: A hydrological process where  
 water moves downward from  
 surface water to groundwater.

Recharge is the primary method that water enters an aquifer  
 RT: Aquifers  
 Ground water  
 Surface water

Groundwater reservoirs  
 USE: **Aquifers**

**Group effects**  
 SN: Collective sensorial or chemical stimulation within organisms  
 BT: Environmental effects  
 RT: Biotic factors  
 Growth regulators  
 Social behaviour

**Group velocity**  
 BT: Velocity  
 RT: Phase velocity  
 Water waves  
 Wave dispersion  
 Wave groups  
 Wave velocity

**Grouper culture**  
 SN: Before 2016 search FISH CULTURE + species name  
 BT: Fish culture

Grouper fisheries  
 USE: **Percoid fisheries**

**Grouting**  
 RT: Civil engineering  
 Dams  
 Hydraulic engineering  
 Pond construction

Grow-out  
 USE: **Growing ponds**

**Growing ponds**  
 UF: Fattening ponds  
 Grow-out  
 Growout ponds  
 BT: Fish ponds  
 NT: Nursery ponds

Growout ponds  
 USE: **Growing ponds**

**Growth**  
 BT: Population functions  
 NT: Animal growth  
 Plant growth  
 RT: Age determination  
 Biological age  
 Biological aging  
 Biological development  
 Condition factor  
 Developmental stages  
 Diapause  
 Growth curves  
 Growth rate  
 Growth regulators

Metabolism  
 Proliferation  
 Regeneration  
 Stunting

**Growth curves**  
 UF: Age length relationships  
 BT: Graphs  
 RT: Growth  
 Length-weight relationships  
 Population dynamics

**Growth rate**  
 RT: Growth

**Growth regulators**  
 SN: Chemical and biochemical products affecting growth of organisms  
 UF: Promoters (growth)  
 Stimulants (growth)  
 NT: Auxins  
 RT: Group effects  
 Growth  
 Hormones  
 Inhibitors  
 Vitamins

**Growth rings**  
 UF: Annuli  
 RT: Plant growth

**Groynes**  
 UF: Groins  
 BT: Coast defences  
 RT: Beach erosion

**Guano**  
 BT: Animal products  
 Organic fertilizers  
 RT: Guano birds  
 Manure  
 Phosphate deposits

**Guano birds**  
 BT: Marine birds  
 RT: Guano

**Guide lines**  
 BT: Cables  
 RT: Underwater structures  
 Wire rope

Guidebooks  
 USE: **Manuals**

**Guidelines**  
 BT: Documents  
 RT: Evaluation  
 Legislation  
 Manuals  
 Performance assessment  
 Planning  
 Quality  
 Specifications  
 Standards

Guiding (organisms)  
 USE: **Guiding devices**

**Guiding devices**  
 UF: Guiding (organisms)  
 Organism guiding  
 NT: Electric fences  
 Fishways

Gulf stream rings  
 USE: **Current rings**

Gustation  
 USE: **Taste**

**Gusts**  
 BT: Atmospheric turbulence  
 RT: Gale force winds  
 Squalls  
 Wind speed  
 Winds

**Gutting**  
 SN: Removal of gut from fish  
 UF: Evisceration  
 Gibbing  
 Nobbing  
 BT: Dressing  
 RT: Fish fillets

**Guyed towers**  
 UF: Compliant platforms  
 Compliant towers  
 BT: Fixed platforms  
 RT: Piled platforms

**Guyots**  
 SN: Flat topped seamounts  
 UF: Tablemounts  
 BT: Seamounts

**Gynogenesis**  
 SN: The development of ova triggered by sperm but without paternal genetic contribution  
 BT: Sexual reproduction  
 RT: Aquaculture techniques  
 Eggs  
 Parthenogenesis  
 Selective breeding  
 Sperm

**Gypsum**  
 BT: Sulphate minerals  
 RT: Authigenic minerals  
 Evaporites  
 Polyhalite  
 Sedimentary rocks

**Gyres**  
 UF: Anticyclonic gyres  
 Subtropical gyres  
 BT: Ocean circulation  
 RT: Oceanic deserts  
 Subtropical convergences  
 Water circulation

**Gyrocompasses**

BT: Compasses

**Gyroscopes**

UF: Precision gyroscopes

BT: Instruments

Gyroscopic waves

USE: **Inertial waves**

**Habitat**

SN: A specific place with its environmental conditions occupied by an organism, a population or a community

UF: Aquatic habitat

Habitat (natural)

Natural habitat

NT: Biotopes

Exposed habitats

Hard bottom habitats

Microhabitats

Sheltered habitats

Soft bottom habitats

Underwater habitats

RT: Aquatic communities

Aquatic environment

Biocenosis

Biota

Carrying capacity

Ecological associations

Ecological succession

Ecotypes

Habitat improvement

Habitat selection

Home range

Niches

Habitat (natural)

USE: **Habitat**

Habitat degradation

USE: **Environmental degradation**

Habitat diversity

USE: **Biodiversity**

**Habitat improvement**

SN: Man-made changes in aquatic natural habitat mainly for aquaculture purposes

NT: Habitat improvement (biological)

Habitat improvement (chemical)

Habitat improvement (fertilization)

Habitat improvement (physical)

RT: Aquaculture techniques

Habitat

**Habitat improvement (biological)**

SN: Improvement of habitat by increasing food organisms and/or introduction of forage by man

BT: Habitat improvement

RT: Biomanipulation

**Habitat improvement (chemical)**

SN: Chemical improvement of the water properties by pH adjustment, and/or by reducing unfavourable elements

BT: Habitat improvement

RT: Artificial aeration

Habitat improvement

(fertilization)

**Habitat improvement**

(fertilization)

SN: Habitat improvement by fertilizers or other elements

BT: Habitat improvement

RT: Fertilizers

Habitat improvement

(chemical)

**Habitat improvement (physical)**

SN: Change of water depth, volume, flow by construction of dams, ripple, removal of rubble and other hydraulic techniques

BT: Habitat improvement

RT: Artificial reefs

Fishways

Shelters

**Habitat loss**

SN: Destruction of the environment in which an organism lives resulting in the destruction or displacement of the organism.

UF: Habitat reduction

BT: Environmental degradation

RT: Biodiversity

Rare species

Habitat reduction

USE: **Habitat loss**

**Habitat selection**

RT: Colonization

Environmental factors

Habitat

Habitat types

USE: **Ecotypes**

Habitats (artificial)

USE: **Underwater habitats**

**HACCP**

SN: The Hazard Analysis and Critical Control Point (HACCP) system, adopted by the Codex Alimentarius Commission, identifies specific hazards and measures for their control to ensure the safety of food.)

UF: Hazard analysis and critical control point

BT: Quality control

RT: Food safety

Haddock fisheries

USE: **Gadoid fisheries**

Haemagglutinins

USE: **Agglutinins**

**Haematite**

UF: Hematite

BT: Oxide minerals

RT: Iron oxides

Haematoblasts

USE: **Blood cells**

**Haematological diseases**

SN: Before 1982 search

HAEMATOLOGY

UF: Blood diseases

Hematological diseases

Hemic diseases

BT: Diseases

NT: Anaemia

RT: Haematology

Septicaemia

**Haematology**

UF: Blood chemistry

Hematology

BT: Biology

RT: Blood

Blood groups

Erythropoiesis

Haematological diseases

Haemopoiesis

Serological studies

Serum

Haematopoiesis

USE: **Haemopoiesis**

**Haemocyanins**

UF: Hemocyanins

BT: Respiratory pigments

RT: Anaemia

Blood

Copper

Proteins

**Haemoglobins**

UF: Hemoglobins

BT: Respiratory pigments

RT: Anaemia

Blood cells

Chelates

**Haemolymph**

BT: Body fluids

RT: Body cavities

Leukocytes

**Haemopoiesis**

SN: Formation of blood or blood cells

UF: Haematopoiesis

Hematopoiesis  
Hemopoiesis  
RT: Blood cells  
Erythropoiesis  
Haematology

**Haemorrhage**

UF: Hemorrhage  
BT: Symptoms  
RT: Blood vessels  
Diseases

Haff

USE: **Coastal lagoons**

**Hafnium**

BT: Heavy metals  
RT: Hafnium isotopes

**Hafnium isotopes**

BT: Isotopes  
RT: Hafnium

Hagermon redmouth

USE: **Redmouth disease**

**Hail**

UF: Hailstones  
BT: Atmospheric precipitations  
RT: Rain  
Rainfall  
Snow

Hailstones

USE: **Hail**

**Hair**

UF: Fur  
Pelage  
RT: Setae

Hake fisheries

USE: **Gadoid fisheries**

Half life (biological)

USE: **Biological half life**

Half life (effective)

USE: **Biological half life**

Half tide level

USE: **Sea level**

Halibut fisheries

USE: **Flatfish fisheries**

**Halide minerals**

BT: Minerals  
NT: Carnallite  
Fluorite  
Halite

**Halides**

BT: Halogen compounds  
RT: Bromides  
Chlorides  
Fluorides

Iodides

**Haline circulation**

BT: Thermohaline circulation

**Halite**

BT: Halide minerals  
RT: Authigenic minerals  
Evaporites

**Halocline**

BT: Discontinuity layers  
RT: Clines  
Isohalines  
Salinity  
Salinity stratification  
Salt-wedge estuaries

**Halogen compounds**

BT: Chemical compounds  
NT: Bromine compounds  
Chlorine compounds  
Fluorine compounds  
Halides  
Iodine compounds  
RT: Halogenated hydrocarbons  
Organic compounds  
Salts

**Halogenated hydrocarbons**

BT: Hydrocarbons  
NT: Brominated hydrocarbons  
Chlorinated hydrocarbons  
Fluorinated hydrocarbons  
RT: Halogen compounds

**Halogenation**

BT: Chemical reactions  
NT: Chlorination  
RT: Halogens

**Halogens**

BT: Nonmetals  
NT: Bromine  
Chlorine  
Fluorine  
Iodine  
RT: Halogenation

Halophilic plants

USE: **Halophytes**

**Halophytes**

UF: Halophilic plants  
BT: Aquatic plants  
RT: Euryhalinity  
Mangroves  
Salinity tolerance  
Salt lakes  
Salt marshes

Hand dredges

USE: **Dredges**

Hand lines

USE: **Lines**

Handbooks

USE: **Manuals**

**Handling**

NT: Fish handling  
Ship handling  
RT: Port operations

Handling equipment

USE: **Deck equipment**

**Handlining**

BT: Line fishing  
RT: Artisanal fishing  
Jigging

Hanging culture

USE: **Off-bottom culture**

**Haploids**

SN: An organism having a single set of unpaired chromosomes, as in a germ cell, such as an egg or sperm, or in a moss plant  
UF: Haploidy  
BT: Ploidy  
RT: Chromosomes  
Diploids  
Gametophytes  
Genomes  
Polyploids

Haploidy

USE: **Haploids**

Harbor models

USE: **Harbour models**

Harbor regulations

USE: **Harbour regulations**

Harbors

USE: **Harbours**

Harbour installations

USE: **Port installations**

**Harbour models**

UF: Harbor models  
BT: Hydraulic models  
RT: Harbours

**Harbour oscillations**

UF: Range action  
BT: Seiches

**Harbour regulations**

UF: Harbor regulations  
BT: Navigation regulations  
RT: Harbours

Harbour structures

USE: **Port installations**

**Harbours**

UF: Harbors  
Ports



BT: Anchorages  
 NT: Artificial harbours  
 Ferry terminals  
 Fishing harbours  
 Military ports  
 Naval bases  
 Tanker terminals  
 RT: Breakwaters  
 Cargo handling  
 Coastal structures  
 Harbour models  
 Harbour regulations  
 Port installations  
 Ship canals

**Hard bottom habitats**

BT: Habitat  
 RT: Benthic environment  
 Benthos  
 Sediment properties  
 Soft bottom habitats  
 Substrata

Hard roe

USE: **Roes**

Hardness (water)

USE: **Water hardness**

Harmful microalgae

USE: **Dangerous organisms**

**Harmonic analysis**

BT: Functional analysis  
 RT: Differential equations  
 Fourier analysis  
 Harmonic functions  
 Tidal analysis  
 Time series analysis  
 Waveform analysis

**Harmonic functions**

RT: Harmonic analysis  
 Laplace equation  
 Poisson's equation  
 Tidal constants  
 Tidal constituents

Harmonic tidal constants

USE: **Tidal constants**

Harmonic tidal constituents

USE: **Tidal constituents**

Harpoons

USE: **Wounding gear**

**Harvesting**

SN: Harvesting methods for biological purposes  
 NT: Seaweed harvesting  
 RT: Harvesting machines

Harvesting equipment

USE: **Harvesting machines**

**Harvesting machines**

SN: Harvesting equipment for biological purposes only  
 UF: Harvesting equipment  
 BT: Fishing gear  
 Machinery  
 RT: Aquaculture equipment  
 Fish pumps  
 Harvesting

**Hatcheries**

BT: Aquaculture facilities  
 RT: Bait culture  
 Batch culture  
 Culture tanks  
 Fish ponds  
 Hatching  
 Incubation  
 Iodophors  
 Seed collection  
 Seed production

**Hatching**

RT: Clutch  
 Eggs  
 Fry  
 Hatcheries  
 Incubation  
 Incubators  
 Nesting  
 Rearing

Hazard analysis and critical control point

USE: **HACCP**

**Hazard assessment**

SN: Evaluation of hazards to aquatic life associated with the use of chemical substances  
 UF: Hazard evaluation  
 RT: Avalanches  
 Environmental impact  
 Hazardous materials  
 Hazards  
 Lethal limits  
 Toxicity tests

Hazard evaluation

USE: **Hazard assessment**

**Hazardous materials**

UF: Dangerous materials  
 BT: Materials  
 NT: Biological poisons  
 Chemical pollutants  
 Explosives  
 Radioactive wastes  
 RT: Agricultural wastes  
 Hazard assessment  
 Hazards  
 Industrial wastes  
 Pesticides  
 Toxicants  
 Vessel wastes

**Hazards**

UF: Danger

NT: Diving hazards  
 Fire hazards  
 Geological hazards  
 Navigational hazards  
 Radiation hazards  
 Weather hazards

RT: Accidents

Avalanches  
 Damage  
 Disasters  
 Hazard assessment  
 Hazardous materials  
 Injuries  
 Piracy  
 Risks

**Haze**

UF: Atmospheric turbidity  
 RT: Air pollution  
 Atmospheric optical phenomena  
 Dust  
 Dust clouds  
 Fog  
 Turbidity  
 Visibility

**Head**

UF: Animal head  
 BT: Body regions  
 RT: Brain  
 Skull

Headed fish

USE: **Heading**

**Heading**

UF: Headed fish  
 BT: Fish handling

**Headlands**

UF: Cuspate forelands  
 Promontories  
 BT: Coastal landforms  
 RT: Beach features

Headstream

USE: **Headwaters**

**Headwaters**

SN: The source of a river; the marshland, spring or glacier that feeds the river's beginning. Also used for the farthest stream or tributary from a river's estuary or terminal feature  
 UF: Headstream  
 Source (river)  
 BT: Inland waters  
 RT: Fluvial morphology  
 Rivers  
 Tributaries  
 Water resources  
 Water springs

Health

USE: **Public health**

**Health and safety**

SN: Before 1986 search also SAFETY  
 UF: Protection (human)  
 Safety  
 NT: Accident prevention  
 Consumer protection  
 Maritime safety  
 Medicine  
 Public health  
 Radiation protection  
 RT: Cargo handling  
 Food-chain approach  
 Food safety  
 Piracy  
 Port operations  
 Product labelling  
 Protocols  
 Safety devices  
 Safety regulations

**Heart**

BT: Circulatory system  
 RT: Blood circulation  
 Blood vessels

**Heat**

BT: Energy  
 NT: Sensible heat  
 Waste heat  
 RT: Conservation of heat  
 Heat balance  
 Heat budget  
 Heat transfer  
 Heating  
 Temperature  
 Thermal pollution  
 Thermal radiation  
 Thermodynamic properties  
 Thermodynamics

Heat advection

USE: **Heat transport**

**Heat affected zones**

RT: Welding

**Heat balance**

SN: Restricted to heat balance studies of organisms  
 UF: Heat gain (organisms)  
 Heat loss (organisms)  
 RT: Aestivation  
 Body temperature  
 Heat  
 Heat transfer

**Heat budget**

SN: Use only for heat budget of water bodies and atmosphere. For studies in organisms use HEAT BALANCE  
 UF: Heat gain (water bodies)  
 Heat loss (water bodies)  
 BT: Energy budget  
 RT: Bowen ratio

Earth atmosphere  
 Evaporation  
 Greenhouse effect  
 Heat  
 Heat content  
 Heat exchange  
 Heat flow  
 Heat storage  
 Heat transport  
 Radiation balance  
 Temperature  
 Thermal stratification  
 Water budget  
 Water column

Heat capacity

USE: **Specific heat**

**Heat conduction**

UF: Conduction (heat)  
 Conductive heat transfer  
 Molecular heat conduction  
 BT: Heat transfer  
 RT: Eddy conduction  
 Heat flow  
 Sensible heat  
 Thermal conductivity

**Heat content**

RT: Heat budget  
 Water temperature

Heat dissipation

USE: **Cooling**

**Heat exchange**

SN: Heat transfer at air-water, air-ice, ice-water, or sediment-water interface  
 BT: Heat transfer  
 NT: Latent heat transfer  
 Sensible heat transfer  
 RT: Air-ice interface  
 Air-water exchanges  
 Air-water interface  
 Evaporation  
 Heat budget  
 Ice-water interface  
 Radiation balance  
 Sediment-water exchanges  
 Sediment-water interface

**Heat exchangers**

RT: OTEC plants

**Heat flow**

SN: Use only for heat flow measurements and amounts on the ocean floor. Use GEOTHERMAL ENERGY for land areas  
 UF: Heat flow flux  
 BT: Heat transfer  
 RT: Heat budget  
 Heat conduction  
 Heat probes  
 Hot spots

Hot springs  
 Mantle convection  
 Sediment-water exchanges  
 Sediment-water interface  
 Sediment temperature  
 Thermal conductivity

Heat flow flux

USE: **Heat flow**

Heat flux

USE: **Heat transfer**

Heat gain (organisms)

USE: **Heat balance**

Heat gain (water bodies)

USE: **Heat budget**

Heat loss (organisms)

USE: **Heat balance**

Heat loss (water bodies)

USE: **Heat budget**

Heat measurement

USE: **Calorimetry**

**Heat probes**

BT: Geothermal equipment  
 RT: Geothermal measurement  
 Heat flow

Heat properties

USE: **Thermodynamic properties**

Heat radiation

USE: **Thermal radiation**

**Heat shock**

BT: Temperature effects  
 RT: Cold shock

**Heat sinks**

RT: Thermodynamics

**Heat storage**

SN: Amount of heat used in changing the temperature of a body of water in a given time interval. A component of the heat budget  
 RT: Heat budget

Heat tolerance

USE: **Temperature tolerance**

**Heat transfer**

UF: Heat flux  
 BT: Energy transfer  
 NT: Cooling  
 Eddy conduction  
 Heat conduction  
 Heat exchange  
 Heat flow  
 RT: Boundary layers  
 Convection

- Entropy  
Heat  
Heat balance  
Heat transport  
Phase changes  
Prandtl number  
Radiative transfer  
Temperature  
Temperature differences  
Thermal radiation  
Thermodynamics
- Heat transport**  
SN: Heat advected by oceanic or atmospheric circulation into or out of a region  
UF: Heat advection  
Poleward heat flux  
BT: Transport  
RT: Advection  
Atmospheric circulation  
Atmospheric motion  
Conservation of heat  
Convection  
Heat budget  
Heat transfer  
Ocean circulation  
Water exchange
- Heated effluent systems  
USE: **Thermal aquaculture**
- Heating**  
SN: Includes heating equipment  
RT: Cooling  
Heat  
Ice prevention
- Heating fuels  
USE: **Fuels**
- Heave  
USE: **Heaving**
- Heave compensators**  
RT: Drill string  
Drilling  
Heaving  
Stabilizing
- Heave response**  
BT: Dynamic response  
RT: Buoy motion effects  
Heaving
- Heaving**  
UF: Heave  
BT: Ship motion  
RT: Buoy motion effects  
Heave compensators  
Heave response
- Heavy metals**  
SN: Metallic elements with a specific gravity greater than four  
BT: Metals  
NT: Antimony
- Arsenic  
Bismuth  
Cadmium  
Chromium  
Cobalt  
Copper  
Gallium  
Gold  
Hafnium  
Indium  
Iridium  
Iron  
Lead  
Manganese  
Mercury  
Molybdenum  
Nickel  
Niobium  
Osmium  
Palladium  
Platinum  
Radium  
Rhenium  
Rhodium  
Ruthenium  
Selenium  
Silver  
Tantalum  
Technetium  
Tellurium  
Thallium  
Tin  
Titanium  
Tungsten  
Vanadium  
Zinc  
Zirconium  
RT: Toxicants  
Toxicity
- Heavy minerals**  
BT: Minerals  
RT: Chromium  
Light minerals  
Rutile
- Heavy water**  
BT: Water  
RT: Deuterium compounds  
Hydrogen isotopes
- Height**  
UF: Altitude  
BT: Dimensions  
NT: Cloud height  
RT: Altimeters  
Altimetry  
Depth  
Dynamic height  
Hypsometric curves
- Helicopters**  
BT: Aircraft  
RT: Helidecks
- Helidecks**  
SN: Helicopter landing deck
- BT: Decks  
RT: Helicopters
- Helium**  
BT: Rare gases  
RT: Helium isotopes
- Helium isotopes**  
BT: Isotopes  
RT: Helium  
Uranium-helium dating
- Helium oxygen mixture  
USE: **Mixed gas**
- Helmholtz instability  
USE: **Kelvin-Helmholtz instability**
- Hematite  
USE: **Haematite**
- Hematological diseases  
USE: **Haematological diseases**
- Hematology  
USE: **Haematology**
- Hematopoiesis  
USE: **Haemopoiesis**
- Hemic diseases  
USE: **Haematological diseases**
- Hemocyanins  
USE: **Haemocyanins**
- Hemoglobins  
USE: **Haemoglobins**
- Hemopoiesis  
USE: **Haemopoiesis**
- Hemorrhage  
USE: **Haemorrhage**
- Heparin**  
BT: Mucopolysaccharides
- Hepatocytes**  
BT: Blood cells
- Hepatoma  
USE: **Tumours**
- Hepatopancreas**  
BT: Digestive glands
- Herbicide resistance**  
BT: Pesticide resistance  
RT: Defence mechanisms  
Herbicides  
Insecticide resistance  
Insecticides  
Pest control  
Weeds

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### Herbicides

BT: Pesticides  
 RT: Algcicides  
   Herbicide resistance  
   Insecticide resistance  
   Lindane  
   Pesticide resistance  
   Plant control

### Herbivores

BT: Heterotrophic organisms  
 NT: Herbivorous fish  
 RT: Carnivores  
   Grazing  
   Omnivores  
   Piscivores  
   Trophic levels

### Herbivorous fish

UF: Phytophagous fishes  
 BT: Fish  
   Herbivores  
 RT: Freshwater fish  
   Plant control

### Heredity

USE: **Genetics**

### Hermaphroditism

UF: Bisexuality  
 NT: Self fertilization  
 RT: Animal reproductive organs  
   Imposex  
   Protandry  
   Protogyny  
   Sex determination

### Herpetology

BT: Vertebrate zoology  
 RT: Aquatic reptiles

### Herring fisheries

USE: **Clupeoid fisheries**

### Heteroenzymes

USE: **Enzymes**

### Heterosis

UF: Hybrid vigor  
 BT: Biological properties  
 RT: Hybrid culture  
   Hybridization  
   Hybrids

### Heterotrophic organisms

SN: Use of a more specific term is recommended  
 UF: Heterotrophs  
 BT: Aquatic organisms  
 NT: Carnivores  
   Decomposers  
   Detritus feeders  
   Filter feeders  
   Herbivores  
   Omnivores  
   Piscivores  
   Plankton feeders

### Predators

Scavengers  
 RT: Feeding behaviour  
   Food webs  
   Heterotrophy  
   Trophodynamic cycle

### Heterotrophs

USE: **Heterotrophic organisms**

### Heterotrophy

BT: Nutritional types  
 RT: Animal nutrition  
   Heterotrophic organisms

### Hexosamines

BT: Amines  
 NT: Glucosamine

### Hiatuses

RT: Bottom erosion

### Hibernation

SN: Dormancy or resting state during winter period  
 RT: Aestivation  
   Body temperature  
   Dormancy  
   Environmental effects  
   Metabolism  
   Sleep  
   Thermoregulation

### Hierarchies (social)

USE: **Dominance hierarchies**

### High frequency

BT: Frequency  
 RT: Low frequency

### High performance liquid chromatography

USE: **HPLC**

### High pressure effects

BT: Pressure effects  
 RT: Decompression chambers  
   Hydrostatic pressure  
   Hyperbaric  
   Implosions  
   Pressure vessels

### High pressure ridges

RT: Atmospheric disturbances  
   High pressure systems

### High pressure systems

RT: Atmospheric disturbances  
   Atmospheric pressure  
   High pressure ridges  
   Sea level pressure

### High seas

BT: Ocean space  
 RT: High seas fisheries  
   International waters  
   Piracy

### High seas fisheries

UF: Distant water fisheries  
 BT: Marine fisheries  
 RT: Factory ships  
   High seas  
   Industrial fisheries

### High tide

SN: Before 1995 search also  
**HIGH WATER**  
 UF: High water  
 BT: Tides  
 RT: Cotidal lines  
   Flood currents  
   Low tide

### High water

USE: **High tide**

### Highest astronomical tides

USE: **Astronomical tides**

### Highly migratory species

USE: **Migratory species**

### Hijacking of ships

USE: **Piracy**

### Hijacking of yachts

USE: **Piracy**

### Hindcasting (waves)

USE: **Wave hindcasting**

### Histamines

BT: Organic compounds  
 RT: Allergic reactions

### Histochemistry

BT: Biochemistry  
 RT: Cell constituents  
   Cells  
   Histology  
   Tissues

### Histological markers

USE: **Biomarkers**

### Histology

UF: Tissue morphology  
 BT: Biology  
 RT: Anatomy  
   Cytology  
   Fixatives  
   Grafting  
   Histochemistry  
   Histopathology  
   Microscopy  
   Tissues

### Histones

BT: Proteins  
 RT: Chromosomes

### Histopathology

BT: Pathology

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- RT: Diseases  
Histology  
Tissues
- Historical account**  
SN: History or development of aquatic sciences or research institutions  
UF: History  
RT: Archives  
Expedition reports
- History  
USE: **Historical account**
- History (geological)  
USE: **Geological history**
- History of sea water  
USE: **Seawater evolution**
- Hodographs**  
BT: Graphs  
NT: Current ellipses  
Ekman spiral  
RT: Map graphics  
Vectors
- Hoisting  
USE: **Lifting**
- Hoists  
USE: **Cranes**
- Holdfasts**  
BT: Plant organs  
RT: Kelps  
Seaweeds
- Hole re-entry**  
UF: Re-entry (deep-sea drilling)  
RT: Boreholes  
Deep-sea drilling
- Holocene**  
SN: Before 1982 search  
HOLOCENE EPOCH  
UF: Recent epoch  
BT: Quaternary
- Holocene sediments  
USE: **Recent sediments**
- Holography**  
NT: Acoustic holography  
RT: Lasers  
Light diffraction  
Photography
- Holoplankton**  
UF: Permanent plankton  
BT: Zooplankton
- Holotypes**  
SN: Single designated plant or animal specimen that serves as the basis for the original name and description of any taxon  
UF: Type specimens  
RT: Lectotype  
New taxa  
Species identification  
Taxonomy  
Type localities  
Typology
- Home range**  
UF: Territory  
RT: Competitive behaviour  
Habitat  
Homing behaviour  
Local movements  
Territoriality
- Homeothermy  
USE: **Homoiothermy**
- Homing behaviour**  
BT: Behaviour  
RT: Anadromous migrations  
Animal navigation  
Catadromous migrations  
Home range  
Local movements
- Homoiothermic animals  
USE: **Homoiothermy**
- Homoiothermy**  
UF: Homeothermy  
Homoiothermic animals  
Warm-blooded animals  
BT: Biological properties  
RT: Body temperature  
Poikilothermy  
Temperature tolerance  
Thermoregulation
- Honour volumes  
USE: **Collected papers**
- Hook rate  
USE: **Catch-effort**
- Hooks**  
UF: Fish hooks  
BT: Lines  
RT: Bait
- Horizon**  
RT: Direction  
Geodesy
- Horizontal advection**  
BT: Advection  
RT: Horizontal motion
- Horizontal distribution**  
BT: Geographical distribution  
NT: Bipolar distribution  
RT: Annual variations  
Migrations  
Seasonal variations
- Spatial variations
- Horizontal motion**  
BT: Fluid flow  
RT: Atmospheric motion  
Convergence  
Divergence  
Horizontal advection  
Water currents
- Horizontal profiles**  
BT: Profiles  
NT: Beach profiles  
Thalweg  
RT: Bathymetric profiles  
Vertical profiles
- Hormones**  
UF: Chemical messengers  
Messengers (chemicals)  
BT: Secretory products  
NT: Ecdysons  
Insulin  
Neurotransmitters  
Pheromones  
Phytohormones  
Sex hormones  
RT: Drugs  
Ectocrines  
Endocrine glands  
Endocrinology  
Enzymes  
Glycoproteins  
Growth regulators  
Metabolism  
Physiology  
Secretion  
Steroids  
Target cells
- Hornblende  
USE: **Amphibolites**
- Horse mackerel fisheries  
USE: **Carangid fisheries**
- Hoses**  
NT: Floating hoses  
RT: Pipes
- Host preferences**  
RT: Hosts  
Parasitism  
Specificity
- Hosts**  
UF: Intermediate hosts  
RT: Biological vectors  
Diseases  
Host preferences  
Parasites  
Parasitism
- Hot brines**  
UF: Hot salty water  
Metalliferous brines  
BT: Brines

Hydrothermal solutions  
RT: Dissolved chemicals  
Metalliferous sediments

Hot salty water  
USE: **Hot brines**

**Hot spots**

RT: Heat flow  
Magma  
Mantle plumes  
Plate tectonics  
Seamount chains  
Volcanism

**Hot springs**

SN: Before 1982 search  
THERMAL SPRINGS  
UF: Geysers  
Thermal springs (hot)  
BT: Water springs  
RT: Geothermal energy  
Heat flow  
Hydrothermal springs

**Hourly**

BT: Periodicity

**Household statistics**

SN: A basic unit for socio-cultural and economic analysis, a household may consist of persons living together and jointly making provision for food or other essentials elements of the livelihood.  
UF: Family statistics  
Households  
BT: Statistics

Households

USE: **Household statistics**

**Hovercraft**

UF: Air cushion vehicles  
BT: Surface craft  
RT: Air transportation  
Aircraft  
Amphibious vehicles

**HPLC**

UF: High performance liquid chromatography  
RT: Chromatographic techniques

**Hulls**

NT: Buoy hulls  
Ship hulls

**Human diseases**

UF: Disorders (human)  
Sickness  
BT: Diseases  
NT: Botulism  
Ciguatera  
Decompression sickness  
Diarrhetic shellfish poisoning

Hypercapnia  
Hypothermia  
Hypoxia  
Malaria  
Paralytic shellfish poisoning  
Sea sickness  
RT: Human physiology  
Nutrition disorders  
Public health

**Human food**

UF: Food for human consumption  
BT: Food  
NT: Seafood  
RT: Ecosystem services  
Fish consumption  
Food insecurity  
Food resources  
Food safety  
Food security  
Recipes

Human health

USE: **Public health**

Human impact

USE: **Man-induced effects**

Human nutrition

USE: **Nutrition**

**Human physiology**

BT: Physiology  
RT: Diving physiology  
Human diseases  
Medicine

**Human resources**

UF: Manpower resources  
BT: Resources  
RT: Human trafficking  
Personnel

**Human trafficking**

SN: A modern-day form of slavery involving the illegal trade of people for exploitation or commercial gain  
UF: Slave labor  
Slave labour  
RT: Human resources  
International law  
Public health

Human underwater habitats

USE: **Underwater habitats**

Humane treatment of animals

USE: **Animal welfare**

**Humic acids**

BT: Organic acids  
RT: Dystrophic lakes  
Fulvic acids  
Humus

Humic lakes

USE: **Dystrophic lakes**

**Humidity**

SN: Use of a more specific term is recommended  
NT: Absolute humidity  
Relative humidity  
Specific humidity  
RT: Dew point  
Hygrometers  
Hygrometry  
Mixing ratio  
Radiosondes  
Storage conditions  
Vapour pressure  
Water content  
Water vapour  
Weather

Humidity measurement

USE: **Hygrometry**

Humidity sensors

USE: **Hygrometers**

**Humus**

BT: Organic matter  
RT: Composts  
Degradation  
Fulvic acids  
Humic acids  
Leaves  
Peat  
Soils

**Hunger**

SN: Hunger represents the physiological need to eat food  
BT: Sense functions  
RT: Feeding behaviour  
Food  
Nutritional requirements  
Physiology  
Starvation  
Stomach

Hunger (socioeconomic)

USE: **Famine**

**Hunting**

NT: Whaling  
RT: Hunting statistics  
Wounding

**Hunting statistics**

SN: Tabulation of hunted pinnipeds and allied species, including derived industrial products  
BT: Catch statistics  
RT: Hunting

Hurricane surges

USE: **Hurricane waves**

Hurricane tides

USE: **Hurricane waves**

**Hurricane tracking**

BT: Tracking  
RT: Hurricanes

**Hurricane waves**

UF: Hurricane surges  
Hurricane tides  
BT: Storm surges  
RT: Hurricanes  
Tropical oceanography

**Hurricanes**

SN: Mature tropical depressions with wind speeds of 65 knots and over  
UF: Cyclones (tropical)  
Tropical cyclones  
Typhoons  
BT: Storms  
Tropical depressions  
RT: Atmospheric forcing  
Bottom pressure  
Cyclones  
Damage assessment  
Disasters  
Gale force winds  
Hurricane tracking  
Hurricane waves  
Mixed layer depth  
Oceanic response  
Temperature (air-sea)  
Thermal structure  
Tropical meteorology  
Waterspouts

**Husbandry diseases**

UF: Fish culture diseases  
BT: Diseases  
RT: Environmental diseases  
Fish diseases  
Nutrition disorders

**Hybrid culture**

UF: Cross breeding  
BT: Aquaculture techniques  
RT: Fish culture  
Freshwater aquaculture  
Heterosis  
Hybridization  
Hybrids  
Intensive culture  
Selective breeding

Hybrid vigor

USE: **Heterosis**

**Hybridization**

UF: Hybridizing  
Interbreeding  
Molecular hybridization  
RT: Breeding  
Brood stocks  
Genetics  
Genotypes  
Heterosis  
Hybrid culture  
Hybrids

Hybridizing

USE: **Hybridization**

**Hybrids**

SN: Occurring in nature or cultured form  
RT: Genetics  
Heterosis  
Hybrid culture  
Hybridization  
Selective breeding

**Hydrates**

RT: Hydration  
Ions

**Hydration**

BT: Solvation  
RT: Dehydration  
Hydrates

**Hydraulic engineering**

BT: Engineering  
RT: Flood control  
Grouting  
Hydraulic models  
Hydraulic structures  
Hydraulics  
Pond construction  
Structural engineering

Hydraulic fracturing

USE: **Hydraulic fracturing**

**Hydraulic fracturing**

SN: A method used to extract natural gas by injecting a mix of water, sand, and chemicals under high pressure into underground rock  
UF: Fracking  
Hydraulic fracturing  
Hydrofracking  
Hydrofracturing  
RT: Drilling  
Gas production  
Oil and gas exploration  
Rocks

**Hydraulic jump**

RT: Standing waves  
Tidal bores

**Hydraulic models**

BT: Scale models  
NT: Harbour models  
RT: Hydraulic engineering  
Hydraulic structures  
Test equipment  
Wave tanks

Hydraulic power transmission systems

USE: **Hydraulic systems**

**Hydraulic structures**

SN: Use of a more specific term is recommended. Before 1982 search also COASTAL STRUCTURES and MARINE STRUCTURES  
UF: Maritime structures  
BT: Structures  
NT: Barrages  
Coastal structures  
Offshore structures  
Outfalls  
RT: Hydraulic engineering  
Hydraulic models

**Hydraulic systems**

UF: Hydraulic power transmission systems  
Hydraulically operated devices  
RT: Deck equipment  
Hydrostatic pressure  
Mining equipment

Hydraulically operated devices

USE: **Hydraulic systems**

**Hydraulics**

BT: Mechanics  
RT: Hydraulic engineering

Hydrobiologists

USE: **Biologists**

**Hydrobiology**

UF: Aquatic biology  
BT: Biology  
RT: Algology  
Fishery biology  
Freshwater sciences  
Ichthyology  
Malacology  
Marine sciences

**Hydrocarbon analysis**

BT: Analysis  
RT: Chemical analysis  
Hydrocarbons  
Petroleum  
Sediment analysis  
Water analysis

Hydrocarbon compounds

USE: **Hydrocarbons**

**Hydrocarbons**

UF: Hydrocarbon compounds  
Solid hydrocarbons  
BT: Organic compounds  
NT: Gas hydrates  
Halogenated hydrocarbons  
Iodinated hydrocarbons  
Petroleum hydrocarbons  
Saturated hydrocarbons  
Unsaturated hydrocarbons  
RT: Carbon  
Carbon compounds  
Fatty acids

Fossil fuels  
Hydrocarbon analysis  
Hydrogen  
Oil  
Oil sands  
Oil shale  
Sapropels

**Hydroclimate**

BT: Climate  
RT: Bioclimatology  
Biogeography  
Salinity  
Water temperature

**Hydrodynamic equations**

BT: Equations  
RT: Dynamical oceanography  
Hydrodynamics  
Hydrostatic equation

**Hydrodynamics**

BT: Dynamics  
Fluid mechanics  
RT: Boundary layers  
Coupled bodies  
Current forces  
Hydrodynamic equations  
Hydrostatics  
Navier-Stokes equations  
Physical limnology  
Physical oceanography  
Stream flow  
Vorticity  
Wakes  
Water circulation  
Wave forces

**Hydroelectric power**

BT: Energy resources  
RT: Green energy  
Hydroelectric power plants  
Renewable resources  
Tidal power  
Wave power

**Hydroelectric power plants**

BT: Power plants  
NT: Tidal power plants  
RT: Hydroelectric power  
Wave power devices

**Hydrofoils**

BT: Surface craft

Hydrofracking

USE: **Hydraulic fracturing**

Hydrofracturing

USE: **Hydraulic fracturing**

**Hydrogen**

BT: Atmospheric gases  
Nonmetals  
RT: Hydrocarbons  
Hydrogen compounds  
Hydrogen ions

Hydrogen isotopes  
pH

**Hydrogen compounds**

BT: Chemical compounds  
NT: Deuterium compounds  
Hydrogen sulphide  
Hydroxides  
Inorganic acids  
RT: Hydrogen  
Water

Hydrogen ion concentration

USE: **pH**

**Hydrogen ions**

BT: Ions  
RT: Hydrogen

**Hydrogen isotopes**

BT: Isotopes  
NT: Deuterium  
Tritium  
RT: Heavy water  
Hydrogen

**Hydrogen sulphide**

BT: Hydrogen compounds  
Sulphides  
RT: Anoxic sediments

Hydrogenous sediments

USE: **Chemical sediments**

Hydrogeology

USE: **Geohydrology**

**Hydrogeomorphology**

SN: The study of landforms created or modified by water  
BT: Geomorphology  
RT: Geology  
Hydrology  
Landforms  
Water bodies

**Hydrographic charts**

UF: Oceanographic charts  
BT: Maps  
NT: Bathymetric charts  
Current charts  
Density charts  
Ice charts  
Salinity charts  
Temperature charts  
Tidal charts  
RT: Environmental charts  
Hydrographic data  
Hydrographic sections  
Hydrographic surveying  
Hydrography  
Oceanographic atlases

**Hydrographic data**

BT: Data  
NT: CTD observations  
Current data

Current meter data  
Salinity data  
Water temperature data  
RT: Current observations  
Hydrographic charts  
Hydrography  
Ice observations  
STD observations  
STD profiles

**Hydrographic sections**

SN: Use of a more specific term is recommended  
BT: Vertical sections  
NT: Bathymetric profiles  
Density sections  
Oxygen sections  
Salinity sections  
Temperature sections  
Velocity sections  
RT: Dissolved oxygen  
Hydrographic charts  
Hydrography  
Meridional distribution  
Oceanographic atlases  
Standard ocean sections  
Vertical profiles  
Zonal distribution

**Hydrographic surveying**

SN: Surveying for data required for the compilation of navigational charts, principally the determination of water depth, nature of the seabed, currents and tides, and the location of fixed objects  
UF: Charting (navigational hazards)  
BT: Surveying  
RT: Hydrographic charts  
Hydrographic surveys  
Research vessels  
Survey vessels  
Water depth

**Hydrographic surveys**

SN: Hydrographic, archaeological, cartographic, navigational, bathymetric and other seabed surveys. For TSD distribution use HYDROGRAPHY  
BT: Surveys  
NT: Bathymetric surveys  
RT: Archaeology  
Bathymetry  
Hydrographic surveying  
Navigational charts  
Research vessels  
Site surveys  
Survey vessels  
Water depth

**Hydrography**

SN: Use only for general studies of the distribution of the



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common physico-chemical properties (temperature, salinity, oxygen, etc.) of the oceans and inland waters  
 UF: Descriptive physical oceanography  
 BT: Physical oceanography  
 RT: Bathymetry  
 Fishery oceanography  
 Hydrographic charts  
 Hydrographic data  
 Hydrographic sections  
 Limnology  
 Oceanographic surveys  
 Water  
 Water masses  
 Water types

### **Hydrolases**

SN: Before 1982 search ENZYMES  
 BT: Enzymes  
 RT: Hydrolysis

### **Hydrologic cycle**

UF: Water cycle  
 BT: Cycles  
 RT: Energy budget  
 Hydrology  
 Hydrosphere  
 Rainfall  
 Water  
 Water budget  
 Water circulation  
 Water resources

### **Hydrology**

SN: Use for studies of continental surface waters and geohydrology  
 BT: Geology  
 NT: Geohydrology  
 Karst hydrology  
 RT: Aquifers  
 Freshwater sciences  
 Geochemistry  
 Geomorphology  
 Geostatistics  
 Hydrogeomorphology  
 Hydrologic cycle  
 Hydrosphere  
 Limnology  
 Water  
 Water budget

### **Hydrolysis**

BT: Chemical reactions  
 NT: Enzymolysis  
 RT: Chemical degradation  
 Detoxification  
 Digestion  
 Hydrolases

### **Hydrometeors**

SN: Products of condensation or sublimation of atmospheric

water vapour and of water particles blown by the wind from the earth's surface. Use of a more specific term is recommended  
 NT: Atmospheric precipitations  
 Clouds  
 Droplets  
 Spray  
 RT: Condensation  
 Sublimation  
 Water  
 Water vapour

### **Hydrometers**

BT: Measuring devices  
 RT: Density measurement  
 Density measuring equipment

### **Hydrometry**

USE: **Density measurement**

### **Hydrophones**

BT: Acoustic transducers  
 RT: Microphones  
 Piezoelectric transducers  
 Sonobuoys  
 Sound recorders  
 Streamers

### **Hydrophotometers**

USE: **Photometers**

### **Hydrophytes**

USE: **Aquatic plants**

### **Hydroponics**

SN: The soil-less growing of plants in water containing dissolved nutrients  
 RT: Aquaponics  
 Cultured organisms  
 Plant growth  
 Plant nutrition

### **Hydrosphere**

NT: Cryosphere  
 RT: Aquatic sciences  
 Hydrologic cycle  
 Hydrology  
 Inland waters  
 Marginal seas  
 Ocean-atmosphere system  
 Water  
 Water bodies  
 Water budget  
 Water column

### **Hydrostatic behaviour**

UF: Hydrostatic reactions  
 BT: Behaviour  
 RT: Buoyancy  
 Flotation  
 Swim bladder

### **Hydrostatic equation**

RT: Coriolis force

Equations of motion  
 Hydrodynamic equations  
 Hydrostatics

### **Hydrostatic pressure**

SN: Before 1982 search WATER PRESSURE  
 UF: Pressure (water)  
 Water pressure  
 BT: Pressure  
 NT: Bottom pressure  
 RT: Decompression  
 High pressure effects  
 Hydraulic systems  
 Hydrostatics  
 Hyperbaric  
 Isobaric surfaces  
 Pore pressure  
 Pressure effects  
 Pressure field  
 Water  
 Water density

### **Hydrostatic reactions**

USE: **Hydrostatic behaviour**

### **Hydrostatics**

BT: Fluid mechanics  
 RT: Hydrodynamics  
 Hydrostatic equation  
 Hydrostatic pressure  
 Pressure gradients

### **Hydrothermal activity**

SN: Before 1982 search also HYDROTHERMAL SYSTEMS  
 UF: Hydrothermal processes  
 Hydrothermal systems  
 NT: Basalt-seawater interaction  
 RT: Geothermal energy  
 Hydrothermal alteration  
 Hydrothermal deposits  
 Hydrothermal fields  
 Hydrothermal flow  
 Hydrothermal solutions  
 Hydrothermal springs

### **Hydrothermal alteration**

SN: Changes in the mineralogic composition of rock brought about by the action of hydrothermal solutions  
 UF: Geothermal alteration  
 Hydrothermal metamorphism  
 BT: Metamorphism  
 RT: Basalt-seawater interaction  
 Hydrothermal activity  
 Hydrothermal solutions  
 Metasomatism  
 Mineral composition  
 Serpentinization

### **Hydrothermal areas**

USE: **Hydrothermal fields**

### **Hydrothermal circulation**

USE: **Hydrothermal flow**

**Hydrothermal deposits**

UF: Hydrothermal sediments  
 BT: Chemical sediments  
 RT: Hydrothermal activity  
 Hydrothermal fields  
 Hydrothermal solutions  
 Hydrothermal springs  
 Metalliferous sediments  
 Sulphide deposits

Hydrothermal energy  
 USE: **Geothermal power**

**Hydrothermal fields**

UF: Geothermal fields  
 Hydrothermal areas  
 BT: Fields  
 RT: Hydrothermal activity  
 Hydrothermal deposits  
 Hydrothermal springs

**Hydrothermal flow**

SN: Before 1982 search  
 HYDROTHERMAL  
 CIRCULATION  
 UF: Hydrothermal circulation  
 BT: Fluid flow  
 RT: Hydrothermal activity  
 Hydrothermal springs

Hydrothermal fluids  
 USE: **Hydrothermal solutions**

Hydrothermal metamorphism  
 USE: **Hydrothermal alteration**

Hydrothermal processes  
 USE: **Hydrothermal activity**

Hydrothermal sediments  
 USE: **Hydrothermal deposits**

**Hydrothermal solutions**

UF: Geothermal fluids  
 Hydrothermal fluids  
 Hydrothermal waters  
 BT: Solutions  
 NT: Hot brines  
 RT: Hydrothermal activity  
 Hydrothermal alteration  
 Hydrothermal deposits  
 Hydrothermal springs  
 Pore water

**Hydrothermal springs**

UF: Hydrothermal vents  
 Thermal springs (hydrothermal)  
 Vents (hydrothermal)  
 BT: Geothermal springs  
 RT: Hot springs  
 Hydrothermal activity  
 Hydrothermal deposits  
 Hydrothermal fields  
 Hydrothermal flow  
 Hydrothermal solutions

Hydrothermal systems

USE: **Hydrothermal activity**

Hydrothermal vents  
 USE: **Hydrothermal springs**

Hydrothermal waters  
 USE: **Hydrothermal solutions**

**Hydroxides**

BT: Hydrogen compounds

**Hydroxylamines**

BT: Amines

**Hygiene**

SN: Hygienic practices and precautions for public health  
 RT: Diseases  
 Public health  
 Sanitary engineering

**Hygrometers**

UF: Humidity sensors  
 BT: Measuring devices  
 RT: Humidity  
 Hygrometry  
 Water vapour

**Hygrometry**

UF: Humidity measurement  
 BT: Measurement  
 RT: Earth atmosphere  
 Humidity  
 Hygrometers  
 Lidar  
 Water content  
 Water vapour

**Hyperbaric**

SN: Used only as qualifier  
 RT: Decompression chambers  
 High pressure effects  
 Hydrostatic pressure

Hyperbaric chambers  
 USE: **Decompression chambers**

**Hypercapnia**

UF: Carbon dioxide poisoning  
 BT: Human diseases  
 RT: Asphyxia  
 Blood  
 Carbon dioxide  
 Mortality causes  
 Underwater medicine

**Hypereutrophic waters**

BT: Water  
 RT: Dystrophic lakes  
 Eutrophic lakes  
 Eutrophic waters  
 Eutrophication  
 Hyperoligotrophic waters  
 Mesotrophic waters  
 Oligotrophic lakes  
 Oligotrophic waters  
 Trophic state

**Hyperoligotrophic waters**

BT: Water  
 RT: Dystrophic lakes  
 Eutrophic lakes  
 Eutrophic waters  
 Eutrophication  
 Hypereutrophic waters  
 Mesotrophic waters  
 Oligotrophic waters  
 Trophic state

**Hyperthermia**

RT: Body temperature  
 Diving hazards  
 Diving physiology  
 Hypothermia  
 Underwater medicine

**Hypertrophy**

RT: Eutrophication  
 Mesotrophic waters  
 Nutrients (mineral)  
 Oligotrophic waters  
 Trophic state

**Hypolimnion**

UF: Deep layers (lakes)  
 RT: Deep layer  
 Deep water  
 Epilimnion  
 Metalimnion  
 Stagnant water  
 Thermal stratification  
 Thermocline  
 Water column

Hypophysation  
 USE: **Induced breeding**

**Hypophysectomy**

BT: Organ removal  
 RT: Pituitary gland

Hypophysis  
 USE: **Pituitary gland**

Hyporheic environments  
 USE: **Hyporheic zone**

**Hyporheic zone**

SN: A region beneath and alongside a stream bed, where there is mixing of shallow groundwater and surface water  
 UF: Hyporheic environments  
 BT: Benthic environment  
 RT: Ground water  
 Inland water environment  
 Interfaces  
 Interstitial environment  
 Riparian environments  
 River beds  
 Rivers  
 Sediment-water interface  
 Sediments  
 Surface water

**Hypothalamus**

BT: Brain

**Hypothermia**

BT: Human diseases  
 RT: Body temperature  
 Diving physiology  
 Hyperthermia  
 Mortality causes  
 Survival at sea  
 Underwater medicine

**Hypoxia**

UF: Oxygen poisoning  
 BT: Human diseases  
 RT: Anoxia  
 Oxygen consumption  
 Oxygen depletion  
 Underwater medicine

Hypsographic curves

USE: **Hypsometric curves**

**Hypsometric curves**

UF: Hypsographic curves  
 BT: Graphs  
 RT: Area  
 Depth  
 Height  
 Morphometry

**Hypsometry**

RT: Atmospheric pressure  
 Sea level

**Ice**

SN: Use for ice in the environment or as a preservative  
 UF: Sludge (ice)  
 NT: Floating ice  
 Freshwater ice  
 Glaciers  
 Lake ice  
 Land ice  
 Sea ice  
 RT: Air-ice interface  
 Cryosphere  
 Ice-oil interface  
 Ice-water interface  
 Ice breakup  
 Ice cover  
 Ice fishing  
 Ice prevention  
 Ice properties  
 Ice ridges  
 Ice thickness  
 Ice volume  
 Icing  
 Navigation in ice  
 Post harvest losses  
 Snow  
 Water

Ice-air interface

USE: **Air-ice interface**

**Ice-free periods**

RT: Ice breakup  
 Ice cover  
 Navigation in ice

**Ice-oil interface**

UF: Oil-ice interface  
 BT: Interfaces  
 RT: Ice  
 Oil pollution  
 Oil spills

Ice-rafted detritus

USE: **Glacial erratics**

**Ice-water interface**

UF: Water-ice interface  
 BT: Interfaces  
 RT: Heat exchange  
 Ice  
 Ice canopy  
 Ice formation

**Ice accretion**

BT: Accretion  
 NT: Icing  
 RT: Ablation  
 Ice volume

**Ice ages**

UF: Glacial periods  
 RT: Glacial erratics  
 Glaciation  
 Ice volume  
 Palaeoclimate  
 Pleistocene

**Ice barriers**

SN: Protection for offshore structures subject to floating ice  
 BT: Barriers  
 RT: Ice loads  
 Pack ice

**Ice breakers**

BT: Ships  
 RT: Ice breaking  
 Ice breakup  
 Navigation in ice

**Ice breaking**

RT: Ice breakers  
 Ice breakup  
 Navigation in ice  
 Sea ice

**Ice breakup**

RT: Ice  
 Ice-free periods  
 Ice breakers  
 Ice breaking  
 Ice formation  
 Ice jams  
 Ice melting  
 Navigation in ice

**Ice canopy**

UF: Submarine ice profiles

Underwater ice profiles

RT: Ice-water interface  
 Pack ice  
 Polynyas

**Ice caps**

UF: Ice mantle  
 Ice sheets  
 BT: Land ice  
 RT: Ablation  
 Air-ice interface  
 Cryosphere  
 Floating ice  
 Ice cover  
 Ice thickness  
 Ice volume

**Ice charts**

BT: Hydrographic charts  
 RT: Ice conditions  
 Ice cover  
 Ice edge  
 Ice observations  
 Ice routing

Ice clearings

USE: **Polynyas**

**Ice conditions**

RT: Ice charts  
 Ice cover  
 Weather

Ice control

USE: **Ice prevention**

**Ice cover**

RT: Ice  
 Ice-free periods  
 Ice caps  
 Ice charts  
 Ice conditions  
 Ice edge  
 Ice volume  
 Palaeoclimate  
 Winterkill

**Ice drift**

UF: Drift (ice)  
 Ice movement  
 BT: Drift  
 RT: Glacial deposits  
 Ice islands  
 Icebergs  
 Pack ice  
 Rafting  
 Wind stress

**Ice edge**

UF: Ice limit  
 RT: Ice charts  
 Ice cover

**Ice fields**

BT: Fields  
 RT: Pack ice  
 Sea ice

**Ice fishing**

SN: Fishing through holes cut in the ice  
 BT: Fishing  
 RT: Bait fishing  
 Ice  
 Sport fishing

Ice floes

USE: **Pack ice**

Ice forces

USE: **Ice loads**

**Ice forecasting**

BT: Prediction

**Ice formation**

RT: Freezing  
 Ice-water interface  
 Ice breakup  
 Ice nuclei  
 Icing  
 Sublimation

**Ice fronts**

RT: Ice shelves

**Ice islands**

BT: Floating ice  
 RT: Ablation  
 Artificial islands  
 Drifting stations  
 Ice drift  
 Ice rafts  
 Ice shelves  
 Islands

**Ice jams**

RT: Floating ice  
 Ice breakup  
 Ice loads  
 Ice pressure  
 Navigation in ice

**Ice keels**

BT: Floating ice  
 RT: Iceberg scouring  
 Icebergs  
 Pack ice  
 Sea ice

Ice leads

USE: **Leads**

Ice limit

USE: **Ice edge**

**Ice loads**

UF: Ice forces  
 BT: Loads (forces)  
 RT: Ice barriers  
 Ice jams  
 Ice pressure  
 Ice prevention  
 Sea walls

Ice mantle

USE: **Ice caps**

**Ice melting**

SN: Used for melting of ice and snow on land and in frozen soil. For thawing of frozen fishery products, use THAWING. For preventing and removing rime and glaze from decks, superstructures, equipment, etc., use DEICING  
 BT: Melting  
 RT: Ablation  
 Deicing  
 Ice breakup  
 Melt water  
 Snowmelt  
 Thawing

Ice movement

USE: **Ice drift**

Ice navigation

USE: **Navigation in ice**

**Ice nuclei**

RT: Ice formation  
 Nuclei

**Ice observations**

UF: Ice reporting  
 RT: Hydrographic data  
 Ice charts  
 Iceberg detection

**Ice pressure**

RT: Ice jams  
 Ice loads

**Ice prevention**

UF: Ice control  
 RT: Deicing  
 Deicing equipment  
 Heating  
 Ice  
 Ice loads

**Ice properties**

BT: Properties  
 RT: Dielectric constant  
 Ice  
 Thermal conductivity

**Ice rafting**

SN: Transport of sediments by ice  
 BT: Rafting  
 RT: Glacial erratics  
 Glacial transport  
 Ice rafts  
 Palaeocurrents  
 Sea ice

**Ice rafts**

BT: Artificial islands  
 RT: Floating structures  
 Ice islands

Ice rafting

Ice reporting

USE: **Ice observations**

**Ice ridges**

RT: Ice  
 Ice thickness

**Ice routing**

BT: Ship routing  
 RT: Ice charts  
 Navigation in ice

Ice scouring

USE: **Iceberg scouring**

Ice sheets

USE: **Ice caps**

**Ice shelves**

BT: Floating ice  
 RT: Ablation  
 Calving  
 Fast ice  
 Ice fronts  
 Ice islands  
 Ice thickness

**Ice thickness**

BT: Thickness  
 RT: Ice  
 Ice caps  
 Ice ridges  
 Ice shelves

**Ice volume**

SN: Estimates of total volume of ice caps, glaciers, sea ice, etc. in the cryosphere  
 BT: Volume  
 RT: Ablation  
 Cryosphere  
 Glaciers  
 Ice  
 Ice accretion  
 Ice ages  
 Ice caps  
 Ice cover  
 Water budget

**Iceberg detection**

BT: Detection  
 RT: Ice observations  
 Icebergs  
 Warning services

Iceberg scour marks

USE: **Ploughmarks**

**Iceberg scouring**

UF: Ice scouring  
 BT: Scouring  
 RT: Bed forms  
 Glacial erosion  
 Ice keels  
 Ploughmarks

**Icebergs**

UF: Calved ice  
 Tabular bergs  
 BT: Floating ice  
 RT: Ablation  
 Calving  
 Glaciers  
 Ice drift  
 Ice keels  
 Iceberg detection  
 Melt water

**Ichthyocides**

UF: Piscicides  
 Polychloropinene  
 BT: Pesticides  
 RT: Molluscicides

**Ichthyofauna**

USE: **Fish**

**Ichthyologists**

UF: Fish scientists  
 BT: Zoologists  
 RT: Fishery biologists  
 Ichthyology  
 Taxonomists

**Ichthyology**

BT: Vertebrate zoology  
 RT: Biogeography  
 Fish  
 Fish physiology  
 Fishery biology  
 Hydrobiology  
 Ichthyologists

**Ichthyoplankton**

BT: Zooplankton  
 RT: Fish eggs  
 Fish larvae  
 Ichthyoplankton surveys  
 Meroplankton

**Ichthyoplankton surveys**

BT: Plankton surveys  
 RT: Fishery surveys  
 Ichthyoplankton  
 Survey design

**Icing**

SN: Formation of ice on ships and offshore structures by freezing of spray on impact  
 BT: Ice accretion  
 Weather hazards  
 RT: Deicing  
 Deicing equipment  
 Freezing  
 Ice  
 Ice formation

**ICZM**

USE: **Integrated coastal zone management**

**Identification**

NT: Pollutant identification  
 Species identification  
 RT: Detection  
 Identification keys  
 Inspection  
 Tracking

**Identification keys**

UF: Keys  
 Taxonomic keys  
 RT: Check lists  
 Identification  
 Species identification  
 Taxonomy

**IFQs**

USE: **Individual transferable quotas**

**Igneous dikes**

BT: Igneous intrusions  
 RT: Batholiths  
 Igneous rocks

**Igneous intrusions**

UF: Intrusions (igneous)  
 NT: Batholiths  
 Igneous dikes  
 RT: Diapirism  
 Magma chambers  
 Plutons

**Igneous rocks**

BT: Rocks  
 NT: Gabbros  
 Granite  
 Plutons  
 Ultramafic rocks  
 Volcanic rocks  
 RT: Batholiths  
 Igneous dikes  
 Magma

**Illegal fishing**

RT: Exclusive economic zone  
 Fishery disputes  
 Fishery protection

**Illite**

BT: Clay minerals

**Illumination**

USE: **Lighting systems**

**Illustrations**

UF: Drawings  
 Zoological drawings  
 BT: Graphics

**Ilmenite**

BT: Oxide minerals  
 RT: Placers  
 Titanium

**Image enhancement**

BT: Imaging techniques

RT: Imagery  
 Pattern recognition

**Image processing**

RT: Imagery  
 Imaging techniques

**Image sensors**

USE: **Remote sensing equipment**

**Imagery**

UF: Images  
 NT: Acoustic imagery  
 Infrared imagery  
 Microwave imagery  
 Photography  
 RT: Image enhancement  
 Image processing  
 Imaging techniques  
 Remote sensing  
 Social media

**Images**

USE: **Imagery**

**Imaging**

USE: **Imaging techniques**

**Imaging techniques**

UF: Imaging  
 NT: Image enhancement  
 RT: Image processing  
 Imagery  
 Tomography

**Immersion effects**

RT: Light measurement

**Immigrations**

BT: Migrations

**Immobilization**

RT: Mobility

**Immune response**

USE: **Immunity**

**Immunity**

SN: The ability of an animal or plant to resist and/or overcome harmful infection or agents  
 UF: Immune response  
 Innate immunity  
 Natural immunity  
 BT: Biological properties  
 RT: Antibodies  
 Defence mechanisms  
 Disease resistance  
 Immunization  
 Immunoassays  
 Immunology

**Immunization**

SN: The process of rendering an animal resistant to infection or harmful agents  
 NT: Vaccination

RT: Bacterial diseases  
Immunity  
Immunology  
Protozoan diseases  
Viral diseases

**Immunoassays**

NT: Enzyme-linked immunosorbent assay  
RT: Bioassays  
Immunity

**Immunocontraception**

SN: Use of the body's natural immune defence mechanisms to control or prevent conception and pregnancy by triggering an antibody response to the species own sex cells (i.e. to render the organism infertile)  
BT: Contraception  
RT: Defence mechanisms  
Fecundity  
Sexual maturity  
Sexual reproduction

**Immunofluorescence**

RT: Fluorescence

**Immunology**

RT: Allergic reactions  
Antibodies  
Biomarkers  
Diseases  
Immunity  
Immunization  
Immunoprecipitation  
Medicine  
Serological studies  
Therapy  
Toxicity

**Immunoprecipitation**

RT: Antibodies  
Antigens  
Immunology  
Vaccination  
Vaccines

Impact (waves)  
USE: **Wave forces**

Impacts  
USE: **Collisions**

Impaling gear  
USE: **Wounding gear**

**Impedance**

NT: Acoustic impedance  
Electric impedance

**Impingement**

SN: Trapping of aquatic organisms by power plant screens  
UF: Fish impingement

Power plant impingement  
RT: Entrainment

**Implosions**

RT: Explosions  
High pressure effects

Imports

USE: **Trade**

**Imposex**

SN: Development of male sex organs on the female  
RT: Animal reproductive organs  
Hermaphroditism

Impounding lakes

USE: **Water reservoirs**

**Impoundments**

RT: Dams  
Lakes

**Impressed currents**

BT: Electric currents  
RT: Cathodic protection

**Imprinting**

SN: A learning process in animals, especially birds  
UF: Odour imprinting  
BT: Learning behaviour  
RT: Aquatic birds

Improved products

USE: **New products**

**In situ density**

BT: Water density  
RT: In situ measurements  
In situ temperature  
Potential density  
Salinity  
Sigma-T  
Thermosteric anomalies  
Water masses

In situ instrumentation

USE: **In situ measurements**

**In situ measurements**

UF: In situ instrumentation  
RT: In situ density  
In situ temperature

**In situ temperature**

BT: Water temperature  
RT: In situ density  
In situ measurements  
Sigma-T

**Inbreeding**

SN: Breeding within the descendants of a foundation stock of related animals  
BT: Breeding

**Incentives**

SN: Something, such as the fear of punishment or the expectation of reward, that induces action or motivates effort  
RT: Fishery economics  
Fishery management  
Production management  
Subsidies

**Incineration**

UF: Incinerators  
RT: Waste disposal

Incinerators

USE: **Incineration**

Inclinometers

USE: **Slope indicators**

**Incubation**

UF: Incubation time  
RT: Eggs  
Hatcheries  
Hatching  
Incubators

Incubation time

USE: **Incubation**

**Incubators**

RT: Hatching  
Incubation

Indicator organisms

USE: **Indicator species**

**Indicator species**

SN: Organisms or species used to indicate current patterns, water masses or environmental changes  
UF: Bioindicator organisms  
Bioindicators  
Biological indicators  
Indicator organisms  
BT: Species  
RT: Coliforms  
Indicators  
Salinity tolerance  
Temperature tolerance  
Test organisms

**Indicators**

NT: Pollution indicators  
RT: Indicator species

**Indigenous fishing**

SN: Fishing undertaken by peoples native to a land or region  
UF: Aboriginal fishing  
Native fishing  
BT: Fishing  
RT: Artisanal fishing

**Indigenous knowledge**

SN: Local knowledge that is unique to a given culture or society. Before 2016, search FISHERY MANAGEMENT + SOCIOLOGICAL ASPECTS  
 UF: Local knowledge  
 Traditional ecological knowledge  
 Traditional knowledge  
 RT: Education  
 Fishery management

Indigenous species

USE: **Natural populations**

**Indium**

BT: Heavy metals

Individual fishing quotas

USE: **Individual transferable quotas**

**Individual transferable quotas**

SN: A right to harvest a particular amount of resources, that can be transferred, e.g. by sale, lease, or will. A type of quota (a part of a Total Allowable Catch) allocated to individual fishermen or vessel owners and which can be sold to others. Before 2016, search QUOTA  
 REGULATIONS + TOTAL ALLOWABLE CATCH + PROPERTY RIGHTS  
 UF: IFQs  
 Individual fishing quotas  
 ITQs  
 RT: Fishery management  
 Property rights  
 Quota regulations  
 Resource depletion  
 Resource management  
 Total allowable catch

**Indoles**

BT: Bioactive compounds

**Induced breeding**

SN: Spawning or breeding under artificial conditions using physiological techniques and/or biological products  
 UF: Artificial fecundation  
 Artificial spawning  
 Hypophysation  
 Induced ovulation  
 Induced spawning  
 BT: Breeding  
 RT: Aquaculture techniques  
 Gonadosomatic index

Induced ovulation

USE: **Induced breeding**

Induced spawning

USE: **Induced breeding**

Industrial effluents

USE: **Industrial wastes**

Industrial fish

USE: **Trash fish**

**Industrial fisheries**

SN: Capital-intensive fisheries with high production capacity and relatively high catch per unit effort. Characterized by relatively large vessels, high degree of mechanization, advanced fish finding or navigational equipment. In some areas of the world, the term is synonymous with fisheries for species that are used for reduction to fishmeal and fish oil  
 BT: Fisheries  
 RT: Commercial fishing  
 Factory ships  
 Fishery industry  
 High seas fisheries

Industrial land use

USE: **Land use**

**Industrial pollution**

BT: Pollution  
 RT: Industrial wastes  
 Pollution control  
 Pollution detection  
 Pollution effects  
 Pollution legislation  
 Pollution monitoring  
 Pollution surveys  
 Pollution tolerance

**Industrial production**

UF: Production (industrial)  
 RT: Industrial products  
 Industries  
 Production cost  
 Production management

**Industrial products**

BT: Products  
 RT: Byproducts  
 Industrial production  
 Industries  
 New products

**Industrial products statistics**

SN: Restricted to statistics of processed products derived from fishery industry  
 UF: Commodity statistics  
 Fishery products statistics  
 BT: Fishery statistics

**Industrial wastes**

SN: Before 1982 for non-organic domestic wastes search also

DOMESTIC WASTES

UF: Industrial effluents  
 BT: Wastes  
 NT: Bleaching wastes  
 RT: Chemical pollutants  
 Hazardous materials  
 Industrial pollution  
 Industries  
 Oil wastes  
 Phenols  
 Sewage  
 Urban watersheds  
 Waste water

**Industrialization**

RT: Industries

**Industries**

SN: Use of a more specific term is recommended  
 UF: Industry  
 NT: Aquaculture enterprises  
 Diving industry  
 Fishery industry  
 Forest industry  
 Mineral industry  
 Oil and gas industry  
 Seaweed industry  
 RT: Industrial production  
 Industrial products  
 Industrial wastes  
 Industrialization

Industry

USE: **Industries**

Inert gases

USE: **Rare gases**

**Inertia**

UF: Inertial forces  
 RT: Forces  
 Froude number  
 Inertial oscillations  
 Inertial waves  
 Motion  
 Rossby number

**Inertial currents**

BT: Water currents

Inertial forces

USE: **Inertia**

**Inertial guidance**

RT: Inertial navigation

**Inertial navigation**

BT: Navigation  
 Position fixing  
 RT: Celestial navigation  
 Dead reckoning  
 Inertial guidance  
 Navigation under ice  
 Navigation underwater

## ASFA THESAURUS

### **Inertial oscillations**

RT: Inertia  
Inertial waves

### **Inertial waves**

UF: Gyroscopic waves  
BT: Water waves  
RT: Inertia  
Inertial oscillations

### Infections

USE: **Infectious diseases**

### **Infectious diseases**

UF: Biotic diseases  
Communicable diseases  
Contagious diseases  
Infections  
BT: Diseases  
NT: Bacterial diseases  
Fungal diseases  
Parasitic diseases  
Protozoan diseases  
Septicaemia  
Viral diseases  
RT: Epidemics  
Epidemiology  
Microbiology  
Vaccination  
Viral replication

### **Infestation**

RT: Pest control  
Pesticides  
Post harvest losses

### Infinitesimal waves

USE: **Linear waves**

### **Inflatable craft**

BT: Surface craft  
RT: Lifeboats

### **Inflow**

SN: Component of water budget of a body of water  
NT: River discharge  
RT: Outflow  
Water budget  
Water exchange

### **Influents**

RT: Effluents

### Information analysis services

USE: **Information services**

### **Information centres**

SN: Before 1995 search also  
DATA CENTRES  
UF: Data centres  
BT: Organizations  
NT: Libraries  
Museums  
Warning services  
RT: Information handling  
Information retrieval

### Information services

Internet

### **Information handling**

SN: Control of literature and information  
RT: Information centres  
Information systems  
Social media

### **Information retrieval**

SN: Location of required information previously classified and stored. Before 1995 search also DATA RETRIEVAL  
UF: Data retrieval  
RT: Information centres  
Information systems  
Internet  
Online instruction

### **Information scientists**

UF: Information specialists  
BT: Scientific personnel  
RT: Archivists  
Librarians

### **Information services**

UF: Documentation services  
Information analysis services  
RT: Information centres  
Information systems  
Online instruction

### Information specialists

USE: **Information scientists**

### **Information systems**

NT: Decision support systems  
GIS  
Information technology  
RT: Information handling  
Information retrieval  
Information services  
Online instruction  
Social media

### **Information technology**

BT: Information systems

### **Infrared detectors**

BT: Radiometers  
RT: Infrared imagery  
Infrared radiation  
Lasers  
Remote sensing

### **Infrared imagery**

UF: Infrared sensing  
IR imagery  
Thermal imagery  
Thermal infrared imagery  
Thermal IR imagery  
BT: Imagery  
RT: Infrared detectors  
Infrared radiation  
Satellite mosaics

### Satellite sensing

### **Infrared radiation**

BT: Electromagnetic radiation  
RT: Infrared detectors  
Infrared imagery  
Solar radiation  
Terrestrial radiation

### Infrared sensing

USE: **Infrared imagery**

### **Infrared spectroscopy**

BT: Spectroscopic techniques

### **Ingestion**

RT: Animal nutrition  
Biological uptake  
Digestion

### **Inhibitors**

SN: Chemicals used to slow down reactions  
BT: Agents  
NT: Enzyme inhibitors  
RT: Anaesthetics  
Catalysts  
Drugs  
Growth regulators

### Initial value problems

USE: **Boundary value problems**

### Injection temperature

USE: **Intake temperature**

### **Injuries**

SN: Used for injuries to man or animals. Before 1986 search also WOUNDS  
UF: Fishing injuries  
Wounds  
RT: Accidents  
Hazards  
Lesions  
Necroses

### Injurious organisms

USE: **Noxious organisms**

### **Inland fisheries**

BT: Fisheries  
NT: Lagoon fisheries  
Lake fisheries  
Reservoir fisheries  
River fisheries  
Swamp fisheries  
RT: Freshwater fish

### **Inland lagoons**

UF: Freshwater lagoons  
BT: Inland waters  
Lagoons  
RT: Lentic environment

### **Inland seas**

SN: Use for Great Lakes, Caspian,



Aral Sea and other large inland  
bodies of water  
BT: Inland waters  
RT: Lakes

Inland water aquaculture  
USE: **Freshwater aquaculture**

**Inland water environment**

UF: Freshwater environment  
BT: Aquatic environment  
NT: Lentic environment  
Lotic environment  
RT: Brackishwater environment  
Eutrophic waters  
Freshwater ecology  
Freshwater fish  
Hyporheic zone  
Inland waters

**Inland waters**

SN: Use of a more specific term is  
recommended  
UF: Inland waterways  
BT: Water bodies  
NT: Canals  
Headwaters  
Inland lagoons  
Inland seas  
Lakes  
Ponds  
Rivers  
Water reservoirs  
Wetlands  
RT: Ephemeral water bodies  
Hydrosphere  
Inland water environment  
Intermittent water bodies

Inland waterways  
USE: **Inland waters**

**Inlets (waterways)**

BT: Coastal inlets  
RT: Bays  
Canals  
Channels  
Estuaries  
Fjords

Innate immunity  
USE: **Immunity**

Innovation processes  
USE: **Technology transfer**

**Innovations**

SN: A good, service, procedure,  
method, or practice that is new  
or significantly improved  
NT: Technology transfer

**Inorganic acids**

BT: Acids  
Hydrogen compounds  
NT: Boric acid  
Chloric acid

Nitric acids  
Phosphoric acid  
Silicic acid  
Sulphuric acid  
RT: Chemical compounds  
Inorganic compounds  
Organic acids

**Inorganic carbon**

BT: Carbon  
Inorganic matter  
NT: Dissolved inorganic carbon

**Inorganic compounds**

BT: Chemical compounds  
RT: Inorganic acids  
Inorganic matter

**Inorganic matter**

NT: Dissolved inorganic matter  
Inorganic carbon  
Suspended inorganic matter  
RT: Inorganic compounds

Inorganic suspended matter  
USE: **Suspended inorganic  
matter**

**Insect eggs**

BT: Eggs  
RT: Aquatic insects  
Insect larvae  
Nymphs

**Insect larvae**

BT: Invertebrate larvae  
NT: Instars  
Nymphs  
Pupae  
RT: Aquatic insects  
Insect eggs

**Insecticide resistance**

BT: Pesticide resistance  
RT: Defence mechanisms  
Herbicide resistance  
Herbicides  
Insecticides  
Pest control

**Insecticides**

BT: Pesticides  
RT: Aldrin  
Dieldrin  
Herbicide resistance  
Insecticide resistance  
Lindane  
PCB  
Pesticide resistance  
Repellents

Insects (aquatic)  
USE: **Aquatic insects**

Inshore currents  
USE: **Nearshore currents**

**Inshore stations**

UF: Shore stations  
BT: Fixed stations  
RT: Lightships

Inshore waters  
USE: **Coastal waters**

**Insolation**

RT: Cloud cover  
Solar radiation

**Insonification**

SN: Irradiation by acoustic waves  
UF: Irradiation (acoustic waves)  
RT: Active sonar  
Sonar imagery  
Sonographs  
Sound

**Inspection**

UF: Examinations  
Inspectors  
NT: Fish inspection  
Underwater inspection  
Visual inspection  
X-ray inspection  
RT: Acceptability  
Detection  
Food traceability  
Identification  
Maintenance and repair  
Monitoring  
Quality control  
Testing

Inspectors  
USE: **Inspection**

**Instability**

UF: Dynamic instability  
NT: Baroclinic instability  
Barotropic instability  
Benjamin Feir instability  
Double diffusive instability  
Kelvin-Helmholtz instability  
Static instability  
RT: Capsizing  
Richardson number  
Stability  
Unsteady state

**Installation**

SN: Before 1984 search also  
INSTALLING  
UF: Installing  
BT: Construction  
RT: Removal

Installing  
USE: **Installation**

**Instars**

BT: Insect larvae

**Instinct**

RT: Behaviour  
Biological properties

**Institutional resources**

BT: Resources  
RT: Organizations

Institutions (financial)

USE: **Financial institutions**

Institutions (research)

USE: **Research institutions**

Instrument carriers

USE: **Instrument platforms**

**Instrument depth measurement**

BT: Depth measurement  
RT: Instruments

Instrument handbooks

USE: **Manuals**

**Instrument platforms**

UF: Instrument carriers  
Observation platforms  
Platforms (instrument)  
Wave followers  
Wave slope followers  
NT: Stabilized platforms

Instrument resolutions

USE: **Resolution**

**Instrument responses**

NT: Dynamic response  
RT: Instruments

**Instruments**

BT: Equipment  
NT: Accelerometers  
Direction indicators  
Free-fall instruments  
Gyroscopes  
Meteorological instruments  
Profilers  
RT: Flow cytometry  
Instrument depth measurement  
Instrument responses  
Measuring devices

Instruments (acoustic)

USE: **Acoustic equipment**

Insular slope

USE: **Island slope**

**Insulating materials**

UF: Insulation  
Lagging  
BT: Materials  
NT: Acoustic insulation  
Electrical insulation  
Thermal insulation  
RT: Asbestos

Insulation

USE: **Insulating materials**

**Insulin**

SN: Before 1982 search  
HORMONES  
BT: Hormones  
RT: Pancreas  
Proteins

**Insurance**

UF: Marine insurance  
RT: Financing  
Liability  
Risks

**Intake temperature**

UF: Injection temperature  
BT: Surface temperature

**Integral equations**

BT: Equations  
RT: Differential equations  
Nonlinear equations  
Numerical analysis

Integrated agriculture

USE: **Agropisciculture**

**Integrated coastal zone management**

SN: The process of combining all aspects of the human, physical and biological aspects of the coastal zone within a single management framework  
UF: ICZM  
BT: Coastal zone management

**Integumentary system**

BT: Anatomical structures  
NT: Feathers  
RT: Epithelia  
Scales

Intensive aquaculture

USE: **Intensive culture**

**Intensive culture**

UF: Intensive aquaculture  
BT: Aquaculture techniques  
RT: Cage culture  
Fish culture  
Hybrid culture  
Monosex culture  
Polyculture  
Raceway culture  
Selective breeding  
Shellfish culture  
Silo culture

Intentional inundation

USE: **Flooding**

Inter-arc basins

USE: **Marginal basins**

**Interactions**

NT: Air-sea interaction  
Tide-surge interaction

Wave interactions

Interbreeding

USE: **Hybridization**

**Intercalibration**

BT: Calibration  
RT: Intercomparison  
Performance assessment

**Intercomparison**

RT: Intercalibration  
Performance assessment  
Standardization  
Testing

Interdependent species

USE: **Associated species**

**Interface phenomena**

SN: Interface strata and their phenomena  
NT: Frontogenesis  
RT: Dead water  
Energy budget  
Interfaces  
Interfacial waves  
Salt fingers  
Surface properties  
Surface tension

**Interfaces**

NT: Air-ice interface  
Air-water interface  
Density interfaces  
Ice-oil interface  
Ice-water interface  
Oil-gas interface  
Oil-water interface  
Sediment-water interface  
RT: Boundaries  
Boundary layers  
Discontinuity layers  
Fronts  
Hyporheic zone  
Interface phenomena  
Mixing processes  
Surfaces

Interfacial tension

USE: **Surface tension**

**Interfacial waves**

RT: Interface phenomena  
Internal waves  
Surface water waves

**Interferometry**

BT: Analytical techniques

**Interglacial periods**

RT: Deglaciation  
Palaeoclimate  
Pleistocene

**Intermediate fishing**

SN: Fishing carried out in a fish

pond during growing season to decrease the density of a stock or to obtain marketable fish  
BT: Fishing

Intermediate hosts  
USE: **Hosts**

**Intermediate water masses**  
BT: Water masses  
RT: Metalimnion  
Thermal stratification

**Intermittent lakes**  
SN: Intermittent (or temporary) lakes dry out every year or at least twice every five years. The extent of intermittent lakes is increasing because of increasing water demand combined with global warming  
UF: Temporary lakes  
BT: Intermittent water bodies  
RT: Ephemeral lakes  
Intermittent rivers

**Intermittent rivers**  
SN: Intermittent (or temporary) streams and rivers cease to flow every year or at least twice every five years. The extent of temporary rivers is increasing, as many formerly perennial rivers are becoming temporary because of increasing water demand, particularly for irrigation  
UF: Intermittent streams  
Temporary rivers  
BT: Intermittent water bodies  
RT: Ephemeral streams  
Intermittent lakes  
Intermittent springs

**Intermittent springs**  
SN: Intermittent springs are springs which flow at intervals, not apparently dependent upon rain or drought. They probably owe their intermittent action to their being connected with natural reservoirs in hills or mountains by passages having the form of a siphon  
BT: Intermittent water bodies  
RT: Ephemeral springs  
Intermittent rivers  
Water springs

Intermittent streams  
USE: **Intermittent rivers**

**Intermittent water bodies**  
SN: Intermittent water bodies dry out either once a year (seasonal) or at least twice within five years

UF: Seasonal water bodies  
BT: Temporary water bodies  
NT: Intermittent lakes  
Intermittent rivers  
Intermittent springs  
RT: Ephemeral water bodies  
Inland waters  
Water bodies

Internal fertilization  
USE: **Biological fertilization**

Internal gravity waves  
USE: **Internal waves**

**Internal tides**  
UF: Baroclinic tides  
BT: Internal waves  
RT: Baroclinic mode  
Baroclinic motion

**Internal wave breaking**  
BT: Wave breaking  
RT: Internal waves  
Trans-isopycnal mixing

**Internal wave effects**  
RT: Dead water  
Sound propagation

**Internal wave generation**  
BT: Wave generation  
RT: Internal waves  
Surface wave-internal wave interactions

**Internal waves**  
UF: Internal gravity waves  
BT: Water waves  
NT: Internal tides  
Lee waves  
RT: Billows  
Directional spectra  
Interfacial waves  
Internal wave breaking  
Internal wave generation  
Nonlinear waves  
Resonant wave interaction  
Surface wave-internal wave interactions

International agencies  
USE: **International organizations**

**International agreements**  
UF: Conventions  
Treaties  
BT: Agreements  
NT: Bilateral agreements  
Pollution convention  
Seabed conventions  
United Nations Convention on Law of the Sea  
United Nations Fish Stock Agreement  
RT: Fishery agreements  
International law

International policy  
Legislation  
Protocols  
Whaling regulations

International allocation  
USE: **Allocation systems**

**International boundaries**  
UF: Frontiers (national)  
National boundaries  
BT: Boundaries  
RT: Territorial waters

International case law  
USE: **International law**

**International cooperation**  
SN: Including exchange of information and technical aid  
UF: International exchange  
International relations  
RT: Development projects  
Fishery aid  
International organizations  
International policy  
Technology transfer

International exchange  
USE: **International cooperation**

International expeditions  
USE: **Multiship expeditions**

International joint ventures  
USE: **Joint ventures**

**International law**  
UF: International case law  
NT: Law of the sea  
RT: Disputes  
Human trafficking  
International agreements  
Soft law

International law of the sea  
USE: **Law of the sea**

International organisations  
USE: **International organizations**

**International organizations**  
UF: International agencies  
International organisations  
BT: Organizations  
RT: International cooperation  
International policy

**International policy**  
UF: Policy (international)  
BT: Policies  
RT: International agreements  
International cooperation  
International organizations

International relations  
USE: **International cooperation**

- International sea area  
USE: **International waters**
- International trade  
USE: **Trade**
- International waters**  
UF: International sea area  
BT: Ocean space  
RT: High seas
- Internet**  
SN: Interconnected system of networks that connects computers around the world via the TCP/IP protocol.  
UF: World Wide Web  
WWW  
BT: Communication systems  
RT: Computers  
Information centres  
Information retrieval  
Online instruction  
Social media  
Telephone systems
- Internet training  
USE: **Online instruction**
- Interocean canals**  
BT: Canals  
RT: Ship canals
- Interoceptors  
USE: **Receptors**
- Interspecific interactions  
USE: **Interspecific relationships**
- Interspecific relationships**  
UF: Interspecific interactions  
NT: Commensalism  
Competition  
Epibiosis  
Parasitism  
Predation  
Symbiosis  
RT: Associated species  
Behaviour  
Biological phenomena  
Biotic factors  
Intraspecific relationships  
Segregation  
Stable isotopes  
Trophic relationships
- Interstitial environment**  
BT: Aquatic environment  
RT: Benthic environment  
Benthos  
Hyporheic zone  
Pore water
- Interstitial water  
USE: **Pore water**
- Intertidal environment**  
UF: Tidal environment  
BT: Marine environment  
RT: Air exposure  
Beaches  
Benthic environment  
Ecological zonation  
Eulittoral zone  
Exposed habitats  
Intertidal sedimentation  
Tidal flats  
Tidal pools  
Tidal waves
- Intertidal flats  
USE: **Tidal flats**
- Intertidal sedimentation**  
BT: Sedimentation  
RT: Estuarine sedimentation  
Intertidal environment  
Nearshore sedimentation  
Tidal deposits  
Tidal flats
- Intertidal zonation  
USE: **Ecological zonation**
- Intertropical convergence zone**  
BT: Atmospheric convergences  
Convergence zones  
RT: Equatorial trough
- Intestines**  
BT: Alimentary organs  
RT: Cloaca  
Pyloric caeca
- Intraspecific relationships**  
UF: Intraspecific selection  
RT: Associated species  
Behaviour  
Biological phenomena  
Interspecific relationships  
Segregation  
Stable isotopes  
Trophic relationships
- Intraspecific selection  
USE: **Intraspecific relationships**
- Introduced species**  
SN: Establishment in a new geographical area by migration or artificial transportation  
UF: Alien species  
Exotic species  
Non-indigenous species  
Non-native species  
Nonindigenous species  
BT: Species  
NT: Invasive species  
RT: Ballast  
Biosecurity  
Colonies  
Colonization  
Domestic species
- Endemic species  
Transplantation
- Intrusions (igneous)  
USE: **Igneous intrusions**
- Inundation  
USE: **Flooding**
- Inundation (irrigation)  
USE: **Irrigation**
- Invasive organisms  
USE: **Invasive species**
- Invasive species**  
SN: An alien or introduced species whose introduction does or is likely to cause economic or environmental harm or harm to human health  
UF: Invasive organisms  
Nuisance species  
BT: Introduced species  
RT: Ballast
- Inventories**  
UF: Data catalogues  
BT: Catalogues  
RT: Data collections
- Inversion layers  
USE: **Inversions**
- Inversions**  
UF: Inversion layers  
NT: Temperature inversions  
RT: Layers
- Invertebrate larvae**  
SN: Use of a more specific term is recommended  
BT: Larvae  
NT: Crustacean larvae  
Insect larvae  
Molluscan larvae
- Invertebrate roe  
USE: **Roes**
- Invertebrate zoology**  
BT: Zoology  
NT: Carcinology  
Entomology  
Malacology  
RT: Brackishwater invertebrates  
Freshwater invertebrates  
Marine invertebrates
- Investment management  
USE: **Financial management**
- Investments**  
UF: Capital investments  
RT: Financing  
Private sector  
Return on investment

**Iodates**

BT: Iodine compounds

**Iodides**

BT: Iodine compounds

RT: Halides

**Iodinated hydrocarbons**

BT: Hydrocarbons

Iodine compounds

NT: Iodomethane

**Iodine**

BT: Halogens

RT: Iodine compounds

Iodine isotopes

**Iodine compounds**

BT: Halogen compounds

NT: Iodates

Iodides

Iodinated hydrocarbons

Iodophors

RT: Iodine

**Iodine isotopes**

BT: Isotopes

RT: Iodine

**Iodomethane**

BT: Iodinated hydrocarbons

**Iodophors**

SN: A complex of iodine and a surface-active agent that releases iodine gradually and serves as a disinfectant

BT: Iodine compounds

RT: Disinfectants

Fish eggs

Hatcheries

**Ion accumulation**

UF: Accumulation of ions

BT: Accumulation

RT: Ion exchange

Ion transport

Ions

Osmoregulation

**Ion association**

RT: Chemical reactions

Ions

**Ion channels**

SN: Pore-forming proteins (present in the membranes of all biological cells) that help establish the small voltage gradient that exists across the membrane of all living cells by allowing the flow of ions down their electrochemical gradient.

BT: Cell membranes

**Ion exchange**

UF: Anion exchange

Cation exchange

BT: Separation processes

RT: Biological membranes

Chemical reactions

Deminceralization

Diffusion

Ion accumulation

Ion transport

Water purification

Water treatment

**Ion pairs**

RT: Ions

**Ion pumps**

USE: **Ion transport**

**Ion selective electrode analysis**

BT: Analytical techniques

**Ion transport**

UF: Ion pumps

RT: Biological membranes

Diffusion

Electrolysis

Ion accumulation

Ion exchange

Ions

Osmoregulation

**Ionizing radiation**

BT: Radiations

NT: Cosmic radiation

Nuclear radiations

RT: Irradiation

Radioactivity

Sterilization

**Ionosphere**

BT: Upper atmosphere

RT: Atmospheric electricity

Stratosphere

**Ions**

NT: Anions

Cations

Hydrogen ions

Metal ions

RT: Exchange capacity

Hydrates

Ion accumulation

Ion association

Ion pairs

Ion transport

Ligands

Osmoregulation

**IR imagery**

USE: **Infrared imagery**

**Iridium**

BT: Heavy metals

RT: Iridium isotopes

**Iridium isotopes**

BT: Isotopes

RT: Iridium

**Iron**

BT: Heavy metals

Transition elements

RT: Ferromanganese nodules

Ferromanganese oxides

Iron compounds

Iron isotopes

Ironstone

Metalliferous sediments

**Iron compounds**

UF: Ferric compounds

Ferrous compounds

BT: Chemical compounds

NT: Iron oxides

Iron phosphates

Iron silicates

Iron sulphides

RT: Iron

**Iron isotopes**

BT: Isotopes

RT: Iron

**Iron oxides**

BT: Iron compounds

Oxides

RT: Haematite

Magnetite

**Iron phosphates**

UF: Ferric phosphate

BT: Iron compounds

Phosphates

**Iron silicates**

BT: Iron compounds

Silicates

**Iron sulphides**

BT: Iron compounds

Sulphides

**Ironstone**

BT: Authigenic minerals

RT: Ferruginous deposits

Iron

Sedimentary rocks

**Irradiance**

SN: Flux density of radiant energy in water

NT: Downward irradiance

Upward irradiance

RT: Cosine collectors

Irradiance meters

Light

Light fields

Optical classification

Optical properties

Optical water types

Radiance

Radiative transfer

Solar radiation

Volume scattering function

**Irradiance meters**

BT: Light measuring instruments  
RT: Irradiance  
Quanta meters

**Irradiation**

UF: Irradiation (fishery products)  
RT: Ionizing radiation  
Radiochemistry  
Radiography

Irradiation (acoustic waves)  
USE: **Insonification**

Irradiation (fishery products)  
USE: **Irradiation**

**Irregular waves**

BT: Water waves

**Irrigation**

UF: Flooding (irrigation)  
Inundation (irrigation)  
RT: Agriculture  
Irrigation water  
Water rights

Irrigation canals  
USE: **Canals**

**Irrigation water**

BT: Water  
RT: Irrigation  
Riparian rights  
Water policy  
Water reservoirs  
Water rights

Irrotational flow  
USE: **Potential flow**

Isentropic analysis  
USE: **Analytical techniques**

**Island arcs**

UF: Arcs (island)  
RT: Continental margins  
Continents  
Converging plate boundaries  
Forearc basins  
Islands  
Marginal basins  
Oceanic trenches  
Plate convergence  
Subduction  
Volcanic islands  
Volcanism

**Island slope**

UF: Insular slope  
BT: Slopes (topography)  
Submarine features  
RT: Continental slope  
Islands

**Islands**

BT: Landforms

NT: Atolls

Barrier islands  
Cays  
Oceanic islands  
RT: Archipelagoes  
Artificial islands  
Ice islands  
Island arcs  
Island slope

**Isobaric surfaces**

BT: Surfaces  
RT: Baroclinic mode  
Barotropic mode  
Dynamic height anomaly  
Dynamic topography  
Hydrostatic pressure  
Isopycnic surfaces  
Level of no motion  
Pressure field

Isobars

USE: **Isopleths**

**Isobaths**

UF: Depth contours  
BT: Contours  
RT: Bathymetric charts  
Bathymetry  
Bottom topography  
Water depth

Isodynamic enzymes  
USE: **Enzymes**

**Isoenzymes**

UF: Isozymes  
BT: Enzymes

**Isohalines**

BT: Isopleths  
RT: Environmental charts  
Halocline  
Mixed layer  
Salinity  
Salinity charts  
Salinity sections

Isohyets

USE: **Isopleths**

**Isolating mechanisms**

SN: Methods that prevent  
breeding between populations,  
so that the genes of each do not  
mix  
NT: Genetic isolation  
Geographical isolation  
Sexual isolation  
RT: Biological speciation  
Population genetics

Isolation (genetics)  
USE: **Genetic isolation**

Isolation (geographical)  
USE: **Geographical isolation**

Isolation (sexual)  
USE: **Sexual isolation**

Isolines  
USE: **Isopleths**

**Isomerases**

BT: Enzymes

**Isomerization**

BT: Chemical reactions

**Isopach maps**

BT: Geological maps  
RT: Stratigraphy

Isopachs

USE: **Isopleths**

**Isopleths**

UF: Coamplitude lines  
Corange lines  
Isobars  
Isohyets  
Isolines  
Isopachs  
BT: Map graphics  
NT: Contours  
Cotidal lines  
Isohalines  
Isopycnics  
Isotherms  
RT: Graphs

**Isopycnic surfaces**

BT: Surfaces  
RT: Baroclinic mode  
Barotropic mode  
Isobaric surfaces  
Isopycnics  
Water density

**Isopycnics**

BT: Isopleths  
RT: Density charts  
Density fronts  
Isopycnic surfaces  
Pycnocline  
Specific volume  
Water density

**Isostasy**

UF: Compensation depth  
(isostasy)  
Isostatic adjustment  
Isostatic compensation  
Isostatic equilibrium  
BT: Crustal adjustment  
RT: Asthenosphere  
Earth crust  
Equilibrium  
Geodesy  
Vertical tectonics

Isostatic adjustment  
USE: **Isostasy**

Isostatic compensation  
USE: **Isostasy**

Isostatic equilibrium  
USE: **Isostasy**

**Isostatic sea level**  
BT: Sea level  
RT: Steric sea level

**Isothermal processes**  
NT: Adiabatic processes  
RT: Thermodynamics  
Thermosteric anomalies

**Isotherms**  
UF: Temperature contours  
BT: Isoleths  
RT: Air temperature  
Environmental charts  
Temperature charts  
Temperature sections  
Thermocline  
Water temperature

Isotope dating  
USE: **Radiometric dating**

**Isotope dilution**  
BT: Tracer techniques  
RT: Isotopes

**Isotope fractionation**  
RT: Isotopes  
Stable isotopes

**Isotopes**  
UF: Nuclides  
NT: Americium isotopes  
Antimony isotopes  
Argon isotopes  
Barium isotopes  
Beryllium isotopes  
Bismuth isotopes  
Boron isotopes  
Bromine isotopes  
Cadmium isotopes  
Caesium isotopes  
Calcium isotopes  
Californium isotopes  
Carbon isotopes  
Cerium isotopes  
Chlorine isotopes  
Chromium isotopes  
Cobalt isotopes  
Curium isotopes  
Europium isotopes  
Gadolinium isotopes  
Germanium isotopes  
Hafnium isotopes  
Helium isotopes  
Hydrogen isotopes  
Iodine isotopes  
Iridium isotopes  
Iron isotopes  
Krypton isotopes

Lanthanium isotopes  
Lead isotopes  
Lithium isotopes  
Magnesium isotopes  
Manganese isotopes  
Mercury isotopes  
Molybdenum isotopes  
Neodymium isotopes  
Neon isotopes  
Neptunium isotopes  
Nickel isotopes  
Niobium isotopes  
Nitrogen isotopes  
Osmium isotopes  
Oxygen isotopes  
Palladium isotopes  
Phosphorus isotopes  
Plutonium isotopes  
Polonium isotopes  
Potassium isotopes  
Protactinium isotopes  
Radioisotopes  
Radium isotopes  
Radon isotopes  
Rhenium isotopes  
Rubidium isotopes  
Ruthenium isotopes  
Samarium isotopes  
Scandium isotopes  
Selenium isotopes  
Silicon isotopes  
Silver isotopes  
Sodium isotopes  
Stable isotopes  
Strontium isotopes  
Sulphur isotopes  
Technetium isotopes  
Tellurium isotopes  
Thorium isotopes  
Uranium isotopes  
Xenon isotopes  
Ytterbium isotopes  
Yttrium isotopes  
Zinc isotopes  
Zirconium isotopes  
RT: Chemical elements  
Chemical fingerprinting  
Fission products  
Isotope dilution  
Isotope fractionation  
Radiometric dating  
Tracers

Isotopic labelling  
USE: **Radioactive labelling**

**Isotropic materials**  
BT: Materials  
RT: Anisotropy  
Isotropy

Isotropic turbulence  
USE: **Turbulence**

**Isotropy**  
RT: Anisotropy  
Isotropic materials

Orientation

Isozymes  
USE: **Isoenzymes**

ITQs  
USE: **Individual transferable quotas**

Jack fisheries  
USE: **Carangid fisheries**

Jackets  
USE: **Piled platforms**

**Jackup platforms**  
SN: Towed or self-propelled  
platforms supportable on  
extending legs  
BT: Mobile platforms  
RT: Submersible platforms

**Jellyfish blooms**  
BT: Blooms  
RT: Gelatinous zooplankton

**Jet stream**  
UF: Polar front jet stream  
Subtropical jet stream  
RT: Jets  
Planetary waves  
Troposphere

**Jets**  
UF: Turbulent jets  
BT: Fluid flow  
NT: Buoyant jets  
Coastal jets  
RT: Jet stream

Jetsam  
USE: **Flotsam**

Jetties  
USE: **Port installations**

**Jigging**  
BT: Line fishing  
RT: Handlining

**Joint ventures**  
SN: Enterprises owned jointly by  
interests of different  
nationalities  
UF: International joint ventures  
Partnerships  
Public-private partnerships  
RT: Bilateral agreements

**Joints**  
UF: Nodes  
RT: Node construction

**Jurassic**  
SN: Before 1982 search  
JURASSIC PERIOD  
BT: Mesozoic

**Jurisdiction**

UF: Federal jurisdiction  
State jurisdiction  
NT: Extended jurisdiction  
RT: Legislation  
Rights

**Juveniles**

UF: Elvers  
Parrs  
Post larvae  
BT: Developmental stages  
NT: Pups  
Smolts  
RT: Children

**Kainite**

BT: Sulphate minerals

**Kalman filters**

BT: Filters

Kamaboko

USE: **Minced products**

**Kaolin**

BT: Clay minerals  
RT: Clays  
Kaolinite

**Kaolinite**

BT: Clay minerals  
RT: Kaolin

Karokinesis

USE: **Mitosis**

**Karst**

SN: A geological formation shaped by dissolution of rock leading to the development of subterranean channels through which groundwater flows in conduits (enclosed or semi-enclosed channels)  
UF: Karsts  
BT: Topographic features  
RT: Channels  
Dissolution  
Ground water  
Karst hydrology

**Karst hydrology**

BT: Hydrology  
RT: Geohydrology  
Ground water  
Karst  
Spelaology

Karsts

USE: **Karst**

Karyological studies

USE: **Karyology**

**Karyology**

UF: Karyological studies

BT: Cytology

RT: Chromosomes

Meiosis

Mitosis

Nuclei

Karyomites

USE: **Chromosomes**

**Karyotypes**

RT: Chromosomes  
Genomes  
Genotypes

Katadromous species

USE: **Catadromous species**

**Keel clearance**

UF: Under keel clearance  
Underkeel clearance  
RT: Groundings

**Kelps**

SN: Brown algae harvested and dried as a source of alginic acid or for animal feeding  
UF: Tangle  
BT: Seaweeds  
RT: Alginates  
Holdfasts

**Kelt**

UF: Spawned salmon  
Spawned trout  
RT: Developmental stages

Kelvin-Helmholtz billows

USE: **Billows**

**Kelvin-Helmholtz instability**

UF: Helmholtz instability  
Shear flow instability  
Shear instability  
BT: Instability  
RT: Billows  
Trans-isopycnal mixing

**Kelvin waves**

UF: Double kelvin waves  
BT: Trapped waves  
NT: Equatorial trapped waves

**Kerogen**

BT: Petroleum hydrocarbons  
RT: Oil shale  
Organic matter

**Ketones**

BT: Organic compounds  
NT: Acetone

Kettle lakes

USE: **Glacial lakes**

Keys

USE: **Identification keys**

Keys (islands)

USE: **Cays**

**Kidneys**

SN: Before 1982 search KIDNEY  
UF: Nephrons  
BT: Excretory organs  
RT: Adrenal glands  
Urinary system  
Urine  
Water balance

**Kimberlites**

RT: Biotite  
Conglomerates  
Diamonds  
Peridotite

Kinematic eddy viscosity

USE: **Eddy viscosity**

**Kinematics**

BT: Mechanics  
RT: Acceleration  
Velocity

**Kinesis**

BT: Orientation behaviour

**Kinetic energy**

BT: Energy  
NT: Eddy kinetic energy  
RT: Drag coefficient  
Froude number  
Green energy  
Potential energy

**Kinetics**

BT: Mechanics  
NT: Chemical kinetics  
Radionuclide kinetics

Kinetics of chemical reactions

USE: **Chemical kinetics**

King crab fisheries

USE: **Crab fisheries**

King mackerel fisheries

USE: **Tuna fisheries**

Knolls (submarine)

USE: **Seaknolls**

**Kortweg Devries equation**

BT: Equations

**Krill fisheries**

BT: Crustacean fisheries  
RT: Krill products  
Pelagic fisheries

Krill meal

USE: **Krill products**

Krill paste

USE: **Krill products**



Krill powders  
USE: **Krill products**

**Krill products**  
UF: Krill meal  
Krill paste  
Krill powders  
Krill protein concentrates  
BT: Processed fishery products  
RT: Krill fisheries

Krill protein concentrates  
USE: **Krill products**

Kryogenic marking  
USE: **Cold branding**

**Krypton**  
BT: Rare gases  
RT: Krypton isotopes

**Krypton isotopes**  
BT: Isotopes  
RT: Krypton

**Kurtosis**  
RT: Coefficients  
Particle distribution  
Particle size  
Skewness  
Statistical analysis

**Kyanite**  
BT: Silicate minerals

Labelling (products)  
USE: **Product labelling**

Labelling (radioactive)  
USE: **Radioactive labelling**

Labor  
USE: **Labour**

**Laboratories**  
RT: Controlled conditions  
Laboratory equipment  
Research institutions

Laboratory conditions  
USE: **Controlled conditions**

**Laboratory culture**  
UF: Biological culture  
NT: Cell culture  
Microbiological culture  
Tissue culture  
RT: Controlled conditions  
Culture media  
Culture tanks  
Cultures  
Experimental culture

**Laboratory equipment**  
BT: Equipment  
NT: Centrifuges

Flumes  
Microscopes  
RT: Laboratories  
Limnological equipment  
Measuring devices  
Oceanographic equipment  
Test equipment  
Towing tanks  
Wave tanks

Laboratory models  
USE: **Scale models**

Laboratory rearing  
USE: **Rearing**

Laboratory research  
USE: **Experimental research**

Laboratory tests  
USE: **Tests**

**Labour**  
UF: Labor  
RT: Labour costs  
Labour legislation  
Personnel

**Labour costs**  
BT: Costs  
RT: Labour

**Labour legislation**  
SN: Before 1982 search LABOUR  
BT: Legislation  
RT: Labour

**Lactate**  
UF: Lactic acid  
RT: Organic acids

**Lactation**  
SN: The process of milk  
production by the mammary  
glands  
BT: Secretion  
RT: Milk

Lactic acid  
USE: **Lactate**

**Lacustrine sedimentation**  
BT: Sedimentation  
RT: Anoxic sediments  
Lake deposits  
Sedimentary environments

Lagging  
USE: **Insulating materials**

**Lagoon fisheries**  
BT: Inland fisheries  
RT: Artisanal fisheries  
Artisanal fishing  
Brackishwater fish  
Demersal fisheries  
Fishing barriers

Lagoons  
Shrimp fisheries

**Lagoonal sedimentation**  
BT: Sedimentation  
RT: Lagoons  
Sedimentary environments

**Lagoons**  
BT: Water bodies  
NT: Atoll lagoons  
Coastal lagoons  
Inland lagoons  
RT: Backwaters  
Barrier reefs  
Brackishwater environment  
Coral reefs  
Lagoon fisheries  
Lagoonal sedimentation  
Shallow water  
Valliculture

**Lagrangian current measurement**  
SN: Before 1982 search also  
LAGRANGIAN METHODS  
(CURRENT MEASUREMENT)  
UF: Lagrangian methods (current  
measurement)  
BT: Current measurement  
RT: Data buoys  
Drogues  
Rhodamine B-dye  
Ship drift  
Subsurface drifters

Lagrangian drifters  
USE: **Drifters**

Lagrangian drifting buoys  
USE: **Drifting data buoys**

Lagrangian methods (current  
measurement)  
USE: **Lagrangian current  
measurement**

**Lake basins**  
BT: Basins  
RT: Catchment area  
Lake deposits  
Lake morphology  
Lakes  
River basins  
Watersheds

Lake beaches  
USE: **Lake shores**

Lake breezes  
USE: **Sea breezes**

Lake circulation  
USE: **Lake dynamics**

**Lake currents**

SN: Before 1982 search also  
LENITIC CURRENTS  
UF: Lenitic currents  
BT: Water currents  
RT: Bottom currents  
Coastal jets  
Lake dynamics  
Lakes  
Longshore currents  
Subsurface currents  
Surface currents

**Lake deposits**

RT: Anoxic sediments  
Glacial deposits  
Lacustrine sedimentation  
Lake basins  
Lakes  
Playas

**Lake dynamics**

UF: Lake circulation  
Reservoir dynamics  
BT: Water circulation  
RT: Coastal boundary layer  
Coastal jets  
Flushing time  
Lake currents  
Nearshore dynamics  
Overturn  
Physical limnology  
Seiches  
Surface circulation  
Water levels  
Wind setup

Lake ecology

USE: **Ecology**

**Lake fisheries**

BT: Inland fisheries  
RT: Artisanal fisheries  
Artisanal fishing  
Coastal fisheries  
Demersal fisheries  
Fishery limnology  
Reservoir fisheries  
Salmon fisheries

**Lake ice**

BT: Ice  
RT: Fast ice  
Floating ice  
Freshwater ice  
Lakes

**Lake morphology**

BT: Geomorphology  
RT: Lake basins  
Lakes

**Lake reclamation**

UF: Reclamation (lakes)  
BT: Reclamation  
RT: Coastal zone management  
Lakes

Shore protection

**Lake restoration**

BT: Environmental restoration

**Lake shores**

UF: Lake beaches  
RT: Coastal morphology  
Lakes  
Riparian environments

**Lakes**

BT: Inland waters  
NT: Artificial lakes  
Dystrophic lakes  
Eutrophic lakes  
Freshwater lakes  
Glacial lakes  
Meromictic lakes  
Oligotrophic lakes  
Oxbow lakes  
Relict lakes  
Salt lakes  
Strip mine lakes  
Tropical lakes  
RT: Ephemeral lakes  
Impoundments  
Inland seas  
Lake basins  
Lake currents  
Lake deposits  
Lake ice  
Lake morphology  
Lake reclamation  
Lake shores  
Lentic environment  
Limnology

**Laminar boundary layer**

BT: Boundary layers  
RT: Laminar flow  
Turbulent boundary layer

**Laminar flow**

UF: Poiseuille flow  
BT: Fluid flow  
NT: Couette flow  
RT: Atmospheric turbulence  
Channel flow  
Forced convection  
Laminar boundary layer  
Molecular viscosity  
Multiphase flow  
Reynolds number  
Stratified flow  
Turbulent flow  
Unsteady flow

Lampara nets

USE: **Surrounding nets**

**Lamprey attachment**

UF: Attachment (lampreys)  
BT: Parasite attachment  
RT: Ectoparasites

Land-based litter

USE: **Litter**

**Land-based pollution**

SN: Use of a more specific term is recommended  
UF: Landbased pollution  
BT: Pollution  
RT: Coastal waters  
Coastal zone  
Eutrophication  
Marine pollution  
Turbidity

**Land breezes**

SN: Blowing from land to sea.  
Before 1995 search also LAND  
+ SEA BREEZES  
BT: Breezes  
RT: Sea breezes

**Land bridges**

RT: Palaeoecology

Land forms

USE: **Landforms**

**Land ice**

SN: Use of a more specific term is recommended  
BT: Ice  
NT: Ice caps  
RT: Freshwater ice  
Permafrost

**Land management**

BT: Resource management  
RT: Agriculture  
Catchment area  
Coastal zone management  
Environment management  
Environmental restoration  
Land reclamation  
Land use  
Riparian buffers  
Watersheds

**Land reclamation**

SN: Restoring degraded land or recovering land from the sea  
UF: Coastal reclamation  
Reclamation (land)  
BT: Reclamation  
RT: Coastal erosion  
Coastal zone management  
Land management  
Land use  
Polders  
Wetlands

**Land use**

UF: Commercial land use  
Industrial land use  
Land utilization  
RT: Best practices  
Land management  
Land reclamation

Land utilization  
USE: **Land use**

Landbased pollution  
USE: **Land-based pollution**

**Landforms**

UF: Land forms  
BT: Topographic features  
NT: Alluvial fans  
Alluvial terraces  
Coastal landforms  
Coasts  
Continents  
Flood plains  
Islands  
Mountains  
Oases  
Plains  
Plateaux  
Ridges  
Valleys  
RT: Erosion features  
Hydrogeomorphology  
Physiographic provinces

**Landing statistics**

BT: Fishery statistics  
RT: Catch statistics  
Fishing time  
Stock assessment

Landlocked countries  
USE: **Landlocked states**

**Landlocked states**

UF: Continental nations  
Landlocked countries  
BT: Countries  
RT: Coastal states

**Landslides**

BT: Geological hazards  
Slides  
RT: Avalanches  
Creep  
Retrogradation  
Slope stability  
Tsunami generation

**Langmuir circulation**

BT: Fluid motion  
RT: Convergence  
Divergence  
Surface circulation  
Surface layers  
Vortices  
Windrows  
Winds

**Lanthanides**

BT: Rare earths  
NT: Cerium  
Dysprosium  
Erbium  
Europium

Gadolinium  
Lanthanum  
Lutetium  
Neodymium  
Samarium  
Terbium  
Ytterbium

**Lanthanum**

UF: Lanthanum  
BT: Lanthanides  
RT: Lanthanum isotopes

**Lanthanum isotopes**

BT: Isotopes  
RT: Lanthanum

Lanthanum

USE: **Lanthanum**

**Laplace equation**

BT: Equations  
RT: Harmonic functions  
Poisson's equation  
Tidal equations

Laplace transformation

USE: **Functional analysis**

**Larvae**

UF: Larval stages  
BT: Developmental stages  
NT: Fish larvae  
Invertebrate larvae  
RT: Embryos  
Larval development  
Larval settlement  
Meroplankton  
Neoteny  
Seed (aquaculture)

Larvae development

USE: **Larval development**

**Larval development**

UF: Larvae development  
BT: Biological development  
RT: Larvae  
Metamorphosis  
Rearing

**Larval settlement**

UF: Larval settling  
Settlement (larvae)  
BT: Biological settlement  
RT: Cultch  
Larvae  
Settling behaviour  
Substrate preferences

Larval settling

USE: **Larval settlement**

Larval stages

USE: **Larvae**

**Larynx**

SN: Before 1982 search  
RESPIRATORY ORGANS  
BT: Vocal organs  
RT: Sound production

**Laser altimeters**

BT: Altimeters  
RT: Laser bathymeters

Laser altimetry

USE: **Altimetry**

**Laser bathymeters**

BT: Bathymeters  
RT: Laser altimeters  
Lasers  
Remote sensing equipment

Laser bathymetry

USE: **Bathymetry**

**Lasers**

UF: Optical masers  
Pulsed lasers  
RT: Electromagnetic radiation  
Holography  
Infrared detectors  
Laser bathymeters  
Lidar  
Optics

Latent heat of sublimation

USE: **Sublimation heat**

Latent heat of vaporization

USE: **Vaporization heat**

**Latent heat transfer**

BT: Heat exchange  
RT: Bowen ratio

**Lateral line**

UF: Lateral line system  
BT: Sense organs  
RT: Mechanical stimuli  
Mechanoreceptors

Lateral line system

USE: **Lateral line**

**Latitude**

BT: Geographical coordinates  
NT: Palaeolatitude  
RT: Equator  
Latitudinal variations  
Longitude

Latitude correction

USE: **Gravity corrections**

**Latitudinal variations**

SN: Variation in the value of some  
physical property along a  
meridian  
BT: Spatial variations  
RT: Latitude  
Meridional distribution

Lattice charts  
USE: **Navigational charts**

**Launching**  
RT: Deployment  
Recovery

**Lava**  
BT: Volcanic rocks  
NT: Pillow lava  
RT: Basalts  
Lava flows

**Lava flows**  
RT: Lava  
Volcanoes

**Law enforcement**  
USE: Surveillance and enforcement

**Law of the sea**  
SN: National and international laws concerning marine water and its resources. Before 1982 search also SEA LAW  
UF: International law of the sea  
Ocean law  
Sea law  
BT: International law  
RT: Environmental legislation  
Fishery agreements  
Ocean policy  
Piracy  
Regulatory compliance  
Seabed conventions  
United Nations Convention on Law of the Sea  
United Nations Fish Stock Agreement

Laws (scientific laws)  
USE: **Scientific laws**

Laws (statute law)  
USE: **Legislation**

Laws of nature  
USE: **Scientific laws**

Laws of science  
USE: **Scientific laws**

Layer of no motion  
USE: **Level of no motion**

**Layers**  
NT: Boundary layers  
Core layers (water)  
Discontinuity layers  
Seismic layers  
Water column  
RT: Inversions  
Levels  
Stratification  
Surface films  
Surfaces

**Leaching**  
BT: Separation processes  
RT: Degradation  
Diffusion  
Dissolution  
Percolation  
Permeability  
Solubility  
Solvent extraction  
Weathering

**Lead**  
BT: Heavy metals  
RT: Ferromanganese nodules  
Lead compounds  
Lead isotopes  
Metalliferous sediments

**Lead 210**  
BT: Lead isotopes

**Lead compounds**  
BT: Chemical compounds  
RT: Lead

**Lead isotopes**  
BT: Isotopes  
NT: Lead 210  
RT: Lead

**Leads**  
UF: Ice leads  
RT: Floating ice  
Navigation in ice  
Polynyas

Leaf  
USE: **Leaves**

**Leaf litter**  
SN: Detritus of leaves  
BT: Detritus  
RT: Leaves

**Leaks**  
BT: Defects  
RT: Seals (stoppers)

Leaks (oil)  
USE: **Oil spills**

**Learning behaviour**  
SN: Conditioned response or reflex of aquatic organisms  
BT: Behaviour  
NT: Imprinting  
RT: Stimuli

**Leases**  
RT: Oil and gas exploration  
Rental

**Least squares method**  
BT: Approximation  
RT: Regression analysis

**Leaves**  
UF: Leaf  
BT: Plant organs  
RT: Humus  
Leaf litter  
Photosynthesis  
Stomata

**Lectins**  
BT: Bioactive compounds

**Lectotype**  
SN: A specimen designated as the type of a species or subspecies when no holotype was designated at the time of publication  
RT: Biological speciation  
Holotypes  
New taxa  
Taxonomy  
Typology

**Lectures**  
UF: Talks  
RT: Conferences  
Publicity material

**Lee eddies**  
SN: Eddies formed on the lee of obstacles. Before 1982 search EDDIES (LEE)  
UF: Eddies (lee)  
BT: Eddies  
Water motion  
RT: Flow around objects  
Vortices

**Lee waves**  
UF: Mountain waves  
BT: Internal waves  
RT: Atmospheric motion  
Stratified shear flow  
Topographic effects

**Legal aspects**  
SN: Before 1982 search LEGISLATION  
RT: Disputes  
Legislation  
Political aspects  
Rights

**Legislation**  
SN: Enter title of legislation, if reported, in Identifiers field  
UF: Clean Water Act  
Laws (statute law)  
Regulations  
NT: Aquaculture regulations  
Commercial legislation  
Environmental legislation  
Fishery industry legislation  
Fishery regulations  
Labour legislation  
Maritime legislation  
Mining legislation  
Navigation regulations

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Oil and gas legislation  
 Quarantine regulations  
 Safety regulations  
 Soft law  
 Water use regulations  
 RT: Fishery agreements  
 Guidelines  
 International agreements  
 Jurisdiction  
 Legal aspects  
 Policies  
 Regulatory compliance  
 Rights

**Legs (structural)**  
 RT: Structures

Leisure activities  
 USE: **Recreation**

**Length**  
 BT: Dimensions  
 NT: Fork length  
 Mixing length

Length-frequency distribution  
 USE: **Length frequency**

**Length-weight relationships**  
 UF: Size-weight relationships  
 Weight-length relationships  
 BT: Population factors  
 RT: Body shape  
 Body size  
 Body weight  
 Condition factor  
 Fork length  
 Growth curves  
 Size distribution

**Length frequency**  
 SN: An arrangement of recorded lengths (in a total catch, a stock, or a sample) which indicates the number of individuals encountered in each length interval.  
 UF: Length-frequency distribution  
 BT: Population structure

Lenitic currents  
 USE: **Lake currents**

Lenitic environment  
 USE: **Lentic environment**

**Lentic environment**  
 SN: Before 2016 search also LENTIC ENVIRONMENT  
 UF: Lenitic environment  
 BT: Inland water environment  
 RT: Benthic environment  
 Euphotic zone  
 Inland lagoons  
 Lakes  
 Lotic environment  
 Marshes

Pelagic environment  
 Ponds  
 Water reservoirs

Leptocephalus  
 USE: **Fish larvae**

**Lesions**  
 SN: For either aquatic animals or man  
 UF: Scars  
 RT: Injuries

**Lethal effects**  
 RT: Bioaccumulation  
 Biological poisons  
 Biotesting  
 Mortality causes  
 Pollution effects  
 Sublethal effects  
 Toxicity

**Lethal limits**  
 RT: Biological poisons  
 Hazard assessment  
 Limiting factors  
 Pesticides  
 Pollutants  
 Starvation  
 Survival  
 Tolerance  
 Toxicity

Lethal mutations  
 USE: **Mutations**

**Leucine**  
 BT: Amino acids

Leucocytes  
 USE: **Leukocytes**

**Leukocytes**  
 UF: Leucocytes  
 BT: Blood cells  
 RT: Haemolymph

**Levees**  
 BT: Embankments  
 RT: Alluvial deposits  
 Flood plains  
 Fluvial features  
 River banks  
 Seachannels

**Level of no motion**  
 UF: Layer of no motion  
 Surface of no motion  
 BT: Reference levels  
 RT: Geostrophic flow  
 Geostrophic method  
 Isobaric surfaces

**Levelling**  
 RT: Bench marks  
 Datum levels  
 Geodesy

Geoid  
 Mean sea level

**Levels**  
 NT: Reference levels  
 Water levels  
 RT: Layers  
 Surfaces

Lexicons  
 USE: **Glossaries**

**Liability**  
 RT: Insurance

**Librarians**  
 RT: Archivists  
 Data  
 Documentation  
 Information scientists  
 Libraries

**Libraries**  
 BT: Information centres  
 RT: Archives  
 Data collections  
 Librarians

**Licences**  
 NT: Concessions  
 Permits  
 RT: Licensing

**Licensing**  
 RT: Licences

**Lidar**  
 UF: Coherent Light Detection and Ranging  
 RT: Hygrometry  
 Lasers  
 Meteorological instruments  
 Radar  
 Remote sensing equipment  
 Sodar

**Life cycle**  
 SN: Morphological changes and growth from egg to adult stages  
 BT: Cycles  
 RT: Biological age  
 Biological aging  
 Biological development  
 Developmental stages  
 Differential distribution  
 Gametophytes  
 Glochidia  
 Life history  
 Longevity  
 Metamorphosis  
 Ontogeny  
 Reproductive cycle  
 Sexual maturity

**Life history**  
 SN: Taxonomic, biological and ecological studies of a species

RT: Autecology  
Biological traits  
Biology  
Life cycle

**Life jackets**

RT: Life saving equipment  
Survival at sea

**Life saving equipment**

RT: Life jackets  
Life support systems  
Lifeboats  
Safety devices

Life sciences (agriculture)

USE: **Agriculture**

Life sciences (biology)

USE: **Biology**

Life sciences (medicine)

USE: **Medicine**

Life span

USE: **Longevity**

**Life support systems**

UF: Atmosphere (life support)  
NT: Breathing apparatus  
RT: Diving equipment  
Life saving equipment  
One-atmosphere systems  
Umbilicals

**Lifeboats**

UF: Liferrafts  
Rafts (life)  
Survival capsules  
BT: Boats  
RT: Inflatable craft  
Life saving equipment  
Safety devices  
Survival at sea

Liferrafts

USE: **Lifeboats**

**Lift-nets**

UF: Scooping gear  
BT: Fishing nets

**Lifting**

UF: Hoisting  
Loading (operation)  
RT: Lifting tackle  
Port operations

Lifting gear

USE: **Lifting tackle**

**Lifting tackle**

UF: Lifting gear  
BT: Deck equipment  
NT: Cranes  
Davits  
Winches

RT: Lifting  
Salvage equipment

**Ligands**

RT: Ions  
Molecules  
Organometallic complexes

Ligases

USE: **Enzymes**

**Light**

UF: Light rays  
Visible radiation  
BT: Electromagnetic radiation  
RT: Abiotic factors  
Atmospheric optical phenomena  
Irradiance  
Light absorption  
Light attenuation  
Light fields  
Light intensity  
Light measurement  
Light measuring instruments  
Light penetration  
Light reflection  
Light refraction  
Light scattering  
Light sources  
Light transmission  
Luminescence  
Optical properties  
Optics  
Photoperiodicity  
Photoreceptors  
Phototaxis  
Phototropism  
Radiance  
Solar radiation  
Ultraviolet radiation

**Light absorption**

SN: Before 1982 search also  
ABSORPTIVITY  
UF: Absorption (light)  
BT: Absorption (physics)  
RT: Absorbance  
Absorption coefficient  
Absorption spectra  
Chromatographic techniques  
Extinction coefficient  
Light  
Light attenuation  
Light penetration  
Light propagation  
Light transmission  
Optical filters  
Transmissometers  
Transparency  
Turbidity  
Water colour  
Water transparency

**Light attenuation**

UF: Attenuation (light)  
BT: Attenuation

RT: Attenuance  
Extinction coefficient  
Light  
Light absorption  
Light penetration  
Light scattering  
Transmittance  
Turbidity  
Water transparency

**Light diffraction**

BT: Diffraction  
RT: Holography

**Light dispersion**

BT: Dispersion  
RT: Light refraction  
Refractive index

Light duration

USE: **Photoperiods**

**Light effects**

UF: Photoperiod effects  
BT: Environmental effects  
RT: Chromatic behaviour  
Light penetration  
Nyctimeral rhythms  
Optical properties  
Photoperiodicity  
Photoperiods  
Phototaxis  
Phototropism

**Light fields**

UF: Radiance distribution  
BT: Fields  
RT: Irradiance  
Light  
Light measurement  
Radiance  
Radiative transfer

**Light fishing**

SN: Use of light to attract fish for capture with different types of gears  
BT: Catching methods  
RT: Pump fishing

**Light intensity**

UF: Light quantity  
RT: Light  
Light penetration  
Optical properties  
Photometry

**Light measurement**

BT: Measurement  
NT: Photometry  
RT: Colorimetric techniques  
Immersion effects  
Light  
Light fields  
Light measuring instruments

**Light measuring instruments**

BT: Measuring devices  
 NT: Beam transmittance meters  
 Cosine collectors  
 Irradiance meters  
 Photometers  
 Quanta meters  
 Radiance meters  
 Scatterance meters  
 Secchi discs  
 Transmissometers  
 RT: Fluorimeters  
 Light  
 Light measurement  
 Nephelometers  
 Optical instruments  
 Radiometers  
 Turbidimeters

Light microscopes  
 USE: **Microscopes**

**Light microscopy**

UF: Optical microscopy  
 BT: Microscopy

**Light minerals**

BT: Minerals  
 RT: Heavy minerals

**Light organs**

SN: Before 1995 search  
 PHOTOPHORES  
 RT: Photophores

**Light penetration**

RT: Absorption coefficient  
 Absorption spectra  
 Aphotic zone  
 Compensation depth  
 Euphotic zone  
 Light  
 Light absorption  
 Light attenuation  
 Light effects  
 Light intensity  
 Light reflection  
 Light refraction  
 Light scattering  
 Phototaxis  
 Phototropism  
 Primary production  
 Solar radiation  
 Spectral composition  
 Transmittance

**Light propagation**

RT: Light absorption  
 Light transmission

Light quantity  
 USE: **Light intensity**

Light rays  
 USE: **Light**

**Light reflection**

UF: Reflection (light)  
 BT: Reflection  
 RT: Air-water interface  
 Glitter  
 Light  
 Light penetration  
 Light refraction  
 Reflectance

**Light refraction**

SN: Before 1982 search also  
 REFRACTION  
 UF: Refraction (light)  
 BT: Refraction  
 RT: Air-water interface  
 Light  
 Light dispersion  
 Light penetration  
 Light reflection  
 Refractive index  
 Transparency

**Light scattering**

UF: Scattering (light)  
 NT: Particle scattering  
 RT: Fluorescence  
 Light  
 Light attenuation  
 Light penetration  
 Nepheloid layer  
 Particle concentration  
 Polarization  
 Refractive index  
 Scattering coefficient  
 Turbidity  
 Volume scattering function  
 Water transparency

Light sensitive pigments

USE: **Visual pigments**

**Light sources**

UF: Underwater light sources  
 RT: Light  
 Lighting systems

**Light stimuli**

BT: Stimuli  
 RT: Photoperiodicity  
 Photoreception  
 Photosynthesis  
 Phototaxis  
 Phototropism  
 Vision

**Light transmission**

BT: Transmission  
 RT: Light  
 Light absorption  
 Light propagation  
 Optical filters  
 Transparency

Light vessels  
 USE: **Lightships**

Lighthouses  
 BT: **Navigational aids**

**Lighting systems**

UF: Illumination  
 RT: Light sources

**Lightning**

BT: Atmospheric electricity  
 RT: Thunderstorms  
 Weather

**Lightships**

UF: Light vessels  
 BT: Ships  
 RT: Inshore stations  
 Navigational aids

**Limbs**

SN: Legs or limbs of aquatic animals  
 BT: Animal appendages

**Limestone**

BT: Carbonate rocks  
 RT: Bioherms  
 Calcarenite  
 Calcite  
 Dolomitization  
 Marlstone  
 Oolites  
 Quarries

**Liming**

BT: Scaling

**Limiting factors**

UF: Limiting nutrients  
 RT: Anthropogenic factors  
 Ecological distribution  
 Environmental conditions  
 Environmental factors  
 Lethal limits  
 Nutrients (mineral)  
 Tolerance

Limiting nutrients

USE: **Limiting factors**

**Limnological data**

BT: Data  
 RT: Bathymetric data  
 Limnological surveys  
 Limnology  
 Water temperature data

**Limnological equipment**

BT: Equipment  
 RT: Bathythermographs  
 Collecting devices  
 Laboratory equipment  
 Limnological surveys  
 Limnology  
 Measuring devices  
 Water samplers

**Limnological institutions**

BT: Research institutions  
 RT: Biological institutions  
 Fishery institutions  
 Limnology

**Limnological surveys**

BT: Environmental surveys  
 RT: Limnological data  
 Limnological equipment  
 Limnology

Limnologists

USE: **Freshwater scientists**

**Limnology**

BT: Aquatic sciences  
 NT: Chemical limnology  
 Fishery limnology  
 Palaeolimnology  
 Physical limnology  
 RT: Freshwater sciences  
 Freshwater scientists  
 Hydrography  
 Hydrology  
 Lakes  
 Limnological data  
 Limnological equipment  
 Limnological institutions  
 Limnological surveys  
 Ponds  
 Water reservoirs

Limnology (biological)

USE: **Freshwater ecology**

Limnology (chemical)

USE: **Chemical limnology**

Limnology (physical)

USE: **Physical limnology**

**Lindane**

BT: Chlorinated hydrocarbons  
 RT: Herbicides  
 Insecticides

**Line fishing**

SN: Any type of fishing using lines, movable or fixed, with or without attached hooks, gorges, or other catching means  
 BT: Catching methods  
 Fishing  
 NT: Handlining  
 Jigging  
 Longlining  
 Pole-line fishing  
 Trolling  
 RT: Artisanal fishing  
 Bait  
 Bait fishing  
 Lines

Line fishing gear

USE: **Lines**

Line pipe

USE: **Pipes**

**Linear programming**

BT: Mathematical programming  
 RT: Computer programs  
 Econometrics  
 Mathematical models

**Linear waves**

UF: Airy waves  
 Infinitesimal waves  
 Sinusoidal waves  
 BT: Water waves  
 RT: Nonlinear waves

**Liners**

UF: Trollers  
 BT: Fishing vessels  
 RT: Lines  
 Trolling

Liners (passengers)

USE: **Passenger ships**

**Lines**

UF: Drift lines  
 Hand lines  
 Line fishing gear  
 Set lines  
 Troll lines  
 BT: Fishing gear  
 NT: Hooks  
 RT: Line fishing  
 Liners  
 Trolling

**Linoleic acid**

BT: Polyunsaturated fatty acids

**Lipids**

SN: Before 1982 search FATS  
 UF: Derived lipids  
 BT: Organic compounds  
 NT: Complex lipids  
 Fats  
 Steroids  
 Waxes  
 RT: Adipose tissue  
 Blubber  
 Choline  
 Esters  
 Lipoproteins

**Lipoproteins**

SN: Before 1982 search  
 PROTEINS  
 BT: Proteins  
 RT: Blood  
 Lipids  
 Lymph

**Liquefaction**

BT: Fluidization  
 RT: Liquefied sediment flow  
 Liquids

**Liquefied natural gas**

UF: LNG  
 BT: Natural gas  
 RT: Gas processing

**Liquefied petroleum gas**

UF: LPG  
 BT: Fuels  
 RT: Gas terminals  
 Petroleum

**Liquefied sediment flow**

BT: Fluidized sediment flow  
 RT: Grain flow  
 Liquefaction

Liquid fish products

USE: **Fish silage**

**Liquids**

BT: Fluids  
 RT: Gases  
 Liquefaction

**Literature reviews**

UF: Literature surveys  
 Review articles  
 Reviews (literature)  
 State-of-the-art reviews  
 RT: Bibliographies  
 Documents

Literature surveys

USE: **Literature reviews**

**Lithification**

BT: Diagenesis  
 RT: Cementation  
 Compaction  
 Compression  
 Consolidation

**Lithium**

BT: Alkali metals  
 RT: Lithium compounds  
 Lithium isotopes

**Lithium compounds**

BT: Alkali metal compounds  
 RT: Lithium

**Lithium isotopes**

BT: Isotopes  
 RT: Lithium

**Lithofacies**

BT: Facies  
 RT: Lithology  
 Sediments

**Lithogenesis**

RT: Lithology  
 Rocks

**Lithology**

BT: Geology  
 RT: Lithofacies



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- Lithogenesis  
Petrology
- Lithosphere**  
SN: Use as tectonic term. Do not use as part of classification: atmosphere, hydrosphere, lithosphere  
BT: Earth structure  
RT: Asthenosphere  
Benioff zone  
Earth crust  
Moho  
Plate tectonics  
Plates  
Upper mantle
- Lithospheric plates  
USE: **Plates**
- Litter**  
SN: Not used for leaf litter or for brood/offspring of mammals  
UF: Debris (rubbish)  
Garbage  
Land-based litter  
Refuse  
Rubbish  
Trash  
BT: Solid impurities  
Wastes  
NT: Marine debris  
RT: Detritus  
Plastic debris
- Littoral currents  
USE: **Nearshore currents**
- Littoral deposits**  
BT: Sediments  
RT: Longshore sediment transport  
Nearshore sedimentation
- Littoral drift  
USE: **Longshore sediment transport**
- Littoral sedimentation  
USE: **Nearshore sedimentation**
- Littoral states  
USE: **Coastal states**
- Littoral transport  
USE: **Longshore sediment transport**
- Littoral zonation  
USE: **Ecological zonation**
- Littoral zone**  
BT: Benthic environment  
NT: Eulittoral zone  
Sublittoral zone  
Supralittoral zone  
RT: Beaches  
Coastal waters
- Coastal zone  
Continental shelves  
Ecological zonation  
Epipelagic zone  
Neritic province  
Shallow water
- Live feed  
USE: **Food organisms**
- Live food  
USE: **Food organisms**
- Live storage**  
SN: Storage of live fish  
UF: Wet storage (live organisms)  
BT: Fish storage
- Live weight  
USE: **Biomass**
- Livelihoods**  
SN: The capabilities, assets (including both material and social resources) and activities required for a means of living).  
RT: Economics  
Fishers  
Fishing
- Liver**  
BT: Digestive glands  
RT: Bile  
Glycogen
- Livestock food**  
BT: Food  
NT: Feed
- Living fossils**  
SN: Any organism alive today whose closest relatives are known only as fossils  
RT: Fossils  
Relict species
- Living quarters  
USE: **Accommodation**
- Living resources**  
SN: Applies to both plant and animal resources of the aquatic environment  
UF: Aquatic living resources  
Biological resources  
Biotic natural resources  
BT: Natural resources  
NT: Botanical resources  
Fishery resources  
RT: Bioeconomics  
Food resources  
Freshwater resources  
Marine resources  
Potential resources  
Protected resources  
Rare resources  
Renewable resources
- Unconventional resources
- LNG  
USE: **Liquefied natural gas**
- Load pressure  
USE: **Loads (forces)**
- Loading (operation)  
USE: **Lifting**
- Loading buoys**  
BT: Mooring buoys  
RT: Articulated columns  
Floating hoses  
Offshore terminals  
Single point moorings  
Tanker loading
- Loads (forces)**  
UF: Load pressure  
BT: Forces (mechanics)  
NT: Current forces  
Cyclic loading  
Dynamic loads  
Earthquake loading  
Ice loads  
Ocean loading  
Wave-induced loading  
Wave forces  
Wind pressure  
RT: Ballast  
Bearing capacity  
Pressure  
Weight
- Lobster culture**  
SN: Before 1982 search  
CRUSTACEAN CULTURE  
BT: Crustacean culture
- Lobster fisheries**  
UF: Cape rock lobster fisheries  
Crayfish fisheries  
Deep-sea lobster fisheries  
Northern lobster fisheries  
Rocklobster fisheries  
Spiny lobster fisheries  
BT: Crustacean fisheries  
RT: Trap fishing
- Lobster pots  
USE: **Pots**
- Local knowledge  
USE: **Indigenous knowledge**
- Local movements**  
SN: Movements of organisms other than migrational movements, within home range  
UF: Movements (local)  
RT: Activity patterns  
Home range  
Homing behaviour

Local names  
USE: **Vernacular names**

**Local winds**  
UF: Bora  
Mistral  
BT: Winds  
NT: Breezes

**Locating**  
NT: Underwater object location  
RT: Detection  
Dynamic positioning  
Position fixing  
RFID tags  
Salvaging  
Search and rescue  
Surveying  
Tracking

**Locations (working)**  
UF: Working locations  
RT: Offshore operations  
Working underwater

Lockout submersibles  
USE: **Submersibles**

**Locomotion**  
SN: Including theory of  
locomotion in aquatic organisms  
NT: Flying  
Swimming  
RT: Activity patterns  
Animal navigation  
Cilia  
Locomotory appendages  
Mobility

**Locomotory appendages**  
UF: Locomotory organs  
BT: Animal appendages  
NT: Fins  
Wings  
RT: Flagella  
Locomotion

Locomotory organs  
USE: **Locomotory appendages**

**Logbooks**  
UF: Scientific logbooks  
Ships logbooks  
BT: Documents  
RT: Records  
Station lists

**Logging**  
NT: Well logging

**Long-crested waves**  
BT: Surface water waves  
RT: Directional spectra  
Short-crested waves  
Wave crests  
Wave direction

Long-line culture  
USE: **Off-bottom culture**

Long-period seismic waves  
USE: **Seismic waves**

**Long-period tides**  
BT: Tides  
RT: Nodal tides  
Pole tides

Long-period water waves  
USE: **Shallow water waves**

Long-period waves  
USE: **Shallow water waves**

**Long-term changes**  
UF: Long-term variations  
Secular fluctuations  
BT: Temporal variations  
NT: Sea level changes  
RT: Baseline studies  
Climatic changes  
Long-term records  
Monitoring  
Periodic variations  
Prediction  
Short-term changes

**Long-term planning**  
BT: Planning  
RT: Short-term planning

**Long-term records**  
BT: Records  
RT: Long-term changes

Long-term variations  
USE: **Long-term changes**

Long gravity waves  
USE: **Shallow water waves**

Long wave-short wave interactions  
USE: **Short wave-long wave interactions**

Long wave radiation  
USE: **Terrestrial radiation**

Long waves  
USE: **Shallow water waves**

**Longevity**  
UF: Life span  
BT: Biological properties  
RT: Age determination  
Biological age  
Biological aging  
Life cycle  
Mortality

**Longitude**  
BT: Geographical coordinates  
RT: Latitude

**Longitudinal dispersion**  
BT: Dispersion  
RT: Estuarine dynamics

**Longlining**  
BT: Line fishing  
RT: Demersal fisheries  
Flatfish fisheries  
Pelagic fisheries

**Longshore bars**  
BT: Nearshore bars  
RT: Break-point bars

**Longshore currents**  
SN: Currents bordering coastlines.  
Before 1982 search ONSHORE  
CURRENTS  
BT: Nearshore currents  
RT: Beach cusps  
Coastal jets  
Estuarine dynamics  
Lake currents  
Longshore sediment transport  
Rip currents  
Surf zone  
Tidal currents  
Wave-current interaction  
Wave processes on beaches  
Wind-driven currents

Longshore drift  
USE: **Longshore sediment transport**

Longshore sand transport  
USE: **Longshore sediment transport**

**Longshore sediment transport**  
SN: Before 1982 search also  
LONGSHORE SAND  
TRANSPORT  
UF: Littoral drift  
Littoral transport  
Longshore drift  
Longshore sand transport  
BT: Sediment transport  
RT: Beach nourishment  
Littoral deposits  
Longshore currents

**Lophophores**  
SN: Filter feeding organs  
BT: Alimentary organs  
RT: Filter feeders

**Loran**  
BT: Radio navigation  
RT: Navigational tables

**Lotic environment**  
BT: Inland water environment  
RT: Benthic environment  
Lentic environment  
Rivers  
Spring streams  
Water springs

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**Love waves**

BT: Surface seismic waves

**Low-velocity layer**

BT: Seismic layers  
RT: Asthenosphere  
Seismic velocities

**Low frequency**

BT: Frequency  
RT: High frequency

**Low pressure systems**

NT: Cyclones  
Low pressure troughs  
RT: Atmospheric disturbances  
Atmospheric pressure  
Tornadoes

**Low pressure troughs**

BT: Low pressure systems  
NT: Equatorial trough

**Low temperature**

BT: Temperature  
RT: Metamorphism

**Low tide**

UF: Low water  
BT: Tides  
RT: Ebb currents  
High tide

Low water

USE: **Low tide**

**Lower mantle**

BT: Earth mantle  
RT: Upper mantle

Lower tertiary

USE: **Palaeogene**

Lowest astronomical tides

USE: **Astronomical tides**

LPG

USE: **Liquefied petroleum gas**

**Lubricants**

RT: Fuels

**Luciferin**

UF: Photophelein  
BT: Proteins  
RT: Luminous organisms

**Luminescence**

NT: Bioluminescence  
Chemiluminescence  
Fluorescence  
Phosphorescence  
RT: Chemical properties  
Electrical properties  
Electromagnetic radiation  
Light

Luminous organisms

Luminescent organs

USE: **Photophores**

**Luminous organisms**

BT: Aquatic organisms  
RT: Luciferin  
Luminescence  
Photophores  
Plankton

Luminous organs

USE: **Photophores**

Lunar cycles

USE: **Moon phases**

Lunar diurnal tides

USE: **Diurnal tides**

Lunar effects

USE: **Moon phases**

Lunar semidiurnal tides

USE: **Semidiurnal tides**

**Lunar tides**

SN: Before 1982 search TIDES  
BT: Tides  
RT: Meteorological tides  
Tidal constituents

**Lungs**

SN: Before 1982 search  
RESPIRATORY ORGANS  
BT: Respiratory organs  
RT: Aerobic respiration

Lures

USE: **Bait**

Luring

USE: **Attracting techniques**

**Lutetium**

BT: Lanthanides

**Lutites**

RT: Argillaceous deposits  
Bentonite  
Marlstone  
Mudstone  
Shale  
Silt  
Siltstone

**Lyases**

SN: Before 1982 search  
ENZYMES  
BT: Enzymes

**Lymph**

SN: Before 1982 search BODY  
FLUIDS  
BT: Body fluids  
RT: Lipoproteins

Lymphatic system

Lymphocytes

Lymph system

USE: **Lymphatic system**

Lymph vessels

USE: **Lymphatic system**

**Lymphatic system**

UF: Lymph system  
Lymph vessels  
BT: Anatomical structures  
RT: Lymph

**Lymphocytes**

BT: Blood cells  
RT: Lymph  
Spleen

**Lysine**

BT: Amino acids

**Lysocline**

BT: Discontinuity layers  
RT: Carbonate compensation  
depth  
Clines

**Lysosomes**

BT: Cell organelles

**Machinery**

NT: Harvesting machines  
Pumps  
RT: Equipment  
Mechanization

**Mackerel fisheries**

BT: Finfish fisheries  
RT: Tuna fisheries

Macrobenthos

USE: **Benthos**

**Macroinvertebrates**

UF: Aquatic macroinvertebrates  
BT: Aquatic invertebrates  
RT: Brackishwater invertebrates  
Freshwater invertebrates  
Marine invertebrates  
Microinvertebrates

**Macrophages**

SN: A large phagocytic cell  
BT: Blood cells  
RT: Phagocytosis

**Macrophytes**

SN: Any macroscopic vegetal  
organism living in aquatic  
environment  
BT: Aquatic plants  
NT: Sea grass

Macroplankton

USE: **Zooplankton**

**Mafic magma**

UF: Mafics  
BT: Magma

Mafics

USE: **Mafic magma**

**Magma**

UF: Magmatism  
NT: Mafic magma  
RT: Asthenosphere  
Hot spots  
Igneous rocks  
Magma chambers  
Volcanism

**Magma chambers**

UF: Magma reservoirs  
RT: Igneous intrusions  
Magma

Magma reservoirs

USE: **Magma chambers**

Magmatism

USE: **Magma**

**Magnesite**

BT: Carbonate minerals

**Magnesium**

BT: Alkaline earth metals  
RT: Barium  
Ferromanganese nodules  
Magnesium compounds  
Magnesium isotopes

**Magnesium compounds**

BT: Alkaline earth metal compounds  
NT: Magnesium silicates  
Magnesium sulphates  
RT: Magnesium

**Magnesium isotopes**

BT: Isotopes  
RT: Magnesium

**Magnesium silicates**

BT: Magnesium compounds  
Silicates

**Magnesium sulphates**

BT: Magnesium compounds  
Sulphates

**Magnetic anomalies**

BT: Anomalies  
RT: Geomagnetic field  
Gravity anomalies  
Magnetic anomaly charts  
Magnetic data  
Magnetic exploration  
Palaeomagnetism  
Seafloor spreading

**Magnetic anomaly charts**

BT: Magnetic charts  
RT: Magnetic anomalies

**Magnetic charts**

BT: Geological maps  
NT: Magnetic anomaly charts  
RT: Magnetic data  
Magnetic exploration  
Magnetic intensity  
Magnetic variations

Magnetic compasses

USE: **Compasses**

Magnetic core orientation

USE: **Core orientation**

**Magnetic data**

BT: Geophysical data  
RT: Magnetic anomalies  
Magnetic charts

Magnetic declination

USE: **Magnetic variations**

Magnetic dip

USE: **Magnetic inclination**

**Magnetic exploration**

UF: Geomagnetic surveys  
Magnetic surveys  
BT: Geophysical exploration  
RT: Aeromagnetic surveys  
Coast effect  
Magnetic anomalies  
Magnetic charts  
Magnetometers

Magnetic field (earth)

USE: **Geomagnetic field**

**Magnetic field elements**

BT: Magnetic properties  
NT: Magnetic inclination  
Magnetic intensity  
Magnetic variations  
RT: Geomagnetic field

**Magnetic fields**

NT: Geomagnetic field  
RT: Electromagnetic radiation  
Magnetism  
Magnets

**Magnetic inclination**

UF: Magnetic dip  
BT: Magnetic field elements

**Magnetic intensity**

BT: Magnetic field elements  
RT: Magnetic charts

Magnetic particle testing

USE: **Nondestructive testing**

**Magnetic properties**

BT: Physical properties  
NT: Magnetic field elements  
Magnetic susceptibility  
Remanent magnetization  
RT: Magnetism  
Magnets

Magnetic remanence

USE: **Remanent magnetization**

**Magnetic reversals**

UF: Geomagnetic reversals  
RT: Geomagnetic field  
Magnetostratigraphy  
Palaeomagnetism  
Pole positions

Magnetic spherules

USE: **Cosmic spherules**

Magnetic stratigraphy

USE: **Magnetostratigraphy**

Magnetic surveys

USE: **Magnetic exploration**

**Magnetic susceptibility**

BT: Magnetic properties  
RT: Anisotropy  
Geomagnetic field  
Palaeomagnetism

**Magnetic tape recordings**

RT: Audio recordings  
Magnetic tapes  
Records  
Videotape recordings

**Magnetic tapes**

RT: Audiovisual materials  
Magnetic tape recordings

**Magnetic variations**

UF: Magnetic declination  
Variations (magnetic)  
BT: Magnetic field elements  
RT: Magnetic charts

**Magnetism**

NT: Electromagnetism  
Geomagnetism  
Palaeomagnetism  
RT: Magnetic fields  
Magnetic properties  
Magnets

**Magnetite**

BT: Oxide minerals  
RT: Cosmic spherules  
Iron oxides  
Placers

**Magnetometers**

BT: Measuring devices  
RT: Geomagnetism  
Geophysical equipment  
Magnetic exploration

**Magnetostratigraphy**

UF: Magnetic stratigraphy  
BT: Stratigraphy  
RT: Magnetic reversals

**Magnetotelluric methods**

UF: Magnetotelluric surveys  
RT: Coast effect  
Electrical resistivity  
Electromagnetic exploration  
Geomagnetic field  
Geomagnetism  
Telluric currents

Magnetotelluric surveys

USE: **Magnetotelluric methods**

**Magnets**

RT: Magnetic fields  
Magnetic properties  
Magnetism

**Maintenance and repair**

SN: Before 1995, search also  
MAINTENANCE; REPAIR;  
REPLACING  
UF: Repair  
Replacing  
RT: Corrosion control  
Damage  
Deterioration  
Drydocks  
Fouling control  
Inspection  
Restoration  
Shipyards

**Major constituents**

RT: Composition

**Major elements**

SN: In geochemistry, major  
elements comprise most of the  
rock, expressed as weight %  
oxides, each is > 0.1%  
BT: Chemical composition  
RT: Chemical elements

**Malacologists**

BT: Zoologists  
RT: Fishery biologists  
Malacology  
Taxonomists

**Malacology**

BT: Invertebrate zoology  
RT: Aquatic molluscs  
Conchology  
Freshwater molluscs  
Hydrobiology  
Malacologists  
Marine molluscs  
Shells

**Malaria**

UF: Paludism

BT: Human diseases  
RT: Parasitic diseases  
Protozoan diseases

**Males**

BT: Gender  
NT: Men  
RT: Females

Malformations

USE: **Abnormalities**

**Mammal entanglement**

BT: Entanglement

**Mammalian physiology**

UF: Physiology (aquatic  
mammals)  
BT: Animal physiology  
RT: Aquatic mammals  
Mammalogy

**Mammalogists**

BT: Zoologists  
RT: Aquatic mammals  
Mammalogy

**Mammalogy**

BT: Vertebrate zoology  
NT: Cetology  
RT: Aquatic mammals  
Mammalian physiology  
Mammalogists

Mammals (aquatic)

USE: **Aquatic mammals**

Mammals (marine)

USE: **Marine mammals**

**Man-induced effects**

SN: Effects of human activities on  
aquatic ecosystems  
UF: Anthropogenic effects  
Human impact  
RT: Environmental degradation  
Environmental impact  
Pollution effects  
Vulnerable marine ecosystems

Man-made disasters

USE: **Accidents**

Man-made lakes

USE: **Artificial lakes**

**Management**

SN: Use of a more specific term is  
recommended  
UF: Administration  
NT: Co-management  
Ecosystem management  
Environment management  
Financial management  
Production management  
Resource management

Risk management  
RT: Bench marks  
Best practices  
Case studies  
Governance  
Marketing  
Mitigation  
Personnel  
PERT  
Planning  
Stewardship  
Uncertainty

Maneuverability

USE: **Manoeuvrability**

**Manganese**

BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Ferromanganese oxides  
Manganese compounds  
Manganese isotopes  
Metalliferous sediments

**Manganese compounds**

BT: Chemical compounds  
NT: Manganese dioxide  
Manganese oxides  
RT: Manganese

**Manganese deposits**

BT: Chemical sediments  
RT: Ferromanganese nodules  
Manganese oxides

**Manganese dioxide**

BT: Manganese compounds  
Manganese oxides

**Manganese isotopes**

BT: Isotopes  
RT: Manganese

**Manganese minerals**

BT: Minerals  
RT: Pyrolusite

Manganese nodules

USE: **Ferromanganese nodules**

**Manganese oxides**

BT: Manganese compounds  
Oxides  
NT: Ferromanganese oxides  
Manganese dioxide  
RT: Manganese deposits

**Mangrove conservation**

UF: Mangrove forest conservation  
Mangrove swamp conservation  
BT: Nature conservation  
RT: Mangrove restoration

Mangrove forest conservation

USE: **Mangrove conservation**

**Mangrove restoration**

UF: Restoration of mangroves  
 BT: Environmental restoration  
 RT: Mangrove conservation

Mangrove swamp conservation  
 USE: **Mangrove conservation**

**Mangrove swamps**

SN: Mangrove aquatic  
 environment and its communities  
 BT: Swamps  
 RT: Brackishwater ecology  
 Brackishwater environment  
 Mangroves

**Mangroves**

RT: Halophytes  
 Mangrove swamps

**Manifolds**

SN: Seabed multiple flowline  
 connectors  
 RT: Connectors  
 Flowlines  
 Wellheads

**Manipulators**

RT: Diving suits  
 Robots  
 Underwater vehicles

**Manned submersibles**

USE: **Submersibles**

**Manned vehicles**

UF: Diving chambers  
 Diving vehicles  
 BT: Underwater vehicles  
 NT: Diving bells  
 Observation chambers  
 Submarines  
 Submersibles  
 RT: Unmanned vehicles

**Mannose**

BT: Monosaccharides  
 RT: Aldehydes

**Manoeuvrability**

UF: Maneuverability  
 RT: Propulsion systems  
 Ship handling  
 Steering systems  
 Vehicles

**Manometers**

BT: Measuring devices  
 RT: Barometers  
 Pressure  
 Pressure gauges

**Manpower resources**

USE: **Human resources**

**Mantle**

SN: Fold of epidermal tissue  
 covering dorsal or lateral  
 surfaces of the body of the  
 Mollusca and Brachiopoda;  
 body wall of the Urochordata.  
 For earth mantle use EARTH  
 MANTLE

BT: Body walls  
 RT: Gills  
 Mantle cavity  
 Shells

**Mantle (earth)**

USE: **Earth mantle**

**Mantle cavity**

BT: Body cavities  
 RT: Gills  
 Mantle

**Mantle convection**

BT: Convection  
 RT: Cellular convection  
 Earth mantle  
 Heat flow  
 Mantle plumes  
 Plate tectonics  
 Seafloor spreading

**Mantle plumes**

BT: Plumes  
 RT: Diverging plate boundaries  
 Earth mantle  
 Hot spots  
 Mantle convection  
 Plate divergence  
 Plate tectonics

**Manuals**

SN: Documents containing  
 instructions and/or procedures  
 for performing operations or  
 handling equipment  
 UF: Guidebooks  
 Handbooks  
 Instrument handbooks  
 BT: Documents  
 RT: Guidelines  
 Methodology  
 Training aids

**Manufacturing costs**

USE: **Operational costs**

**Manure**

SN: Any substance, usually of  
 natural origin, used as fertilizer  
 UF: Animal manure  
 Artificial manure  
 Dung  
 Manurial salts  
 BT: Animal products  
 Organic fertilizers  
 RT: Coliforms  
 Composting  
 Composts

Faeces  
 Guano  
 Wastes

**Manurial salts**

USE: **Manure**

**Manuscripts (historical)**

USE: **Documents**

**Map graphics**

SN: Cartographic representation  
 of data on maps. Use of a more  
 specific term is recommended  
 BT: Graphics  
 NT: Current roses  
 Isopleths  
 Streamlines  
 Vertical sections  
 Wind roses  
 Wind vectors  
 RT: Cartography  
 Hodographs

**Map projections**

RT: Cartography  
 Geographical coordinates  
 Maps

**Mapping**

SN: Mapping of aquatic and  
 terrestrial environments. Before  
 1982 search CHARTING for  
 aquatic environments  
 UF: Charting (distributions)  
 Charting (environmental  
 conditions)  
 NT: Seafloor mapping  
 RT: Cartography  
 Geography  
 Maps  
 Plotting  
 Spatial planning  
 Surveying  
 Surveys  
 Topography

**Maps**

SN: Before 1982 search also  
 CHARTS (MAPS)  
 UF: Charts (maps)  
 BT: Graphics  
 NT: Biological charts  
 Climatological charts  
 Control charts  
 Environmental charts  
 Fishery charts  
 Geological maps  
 Hydrographic charts  
 Meteorological charts  
 Navigational charts  
 Pollution maps  
 Topographic maps  
 Track charts  
 RT: Atlases  
 Cartography

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Chart datum  
Map projections  
Mapping

**Marginal basins**  
UF: Back-arc basins  
Inter-arc basins  
BT: Structural basins  
RT: Active margins  
Continental slope  
Forearc basins  
Island arcs  
Marginal seas  
Subduction

**Marginal fields**  
BT: Oil and gas fields

**Marginal seas**  
UF: Adjacent seas  
Deep adjacent seas  
BT: Oceans  
NT: Semi-enclosed seas  
Shelf seas  
RT: Anoxic basins  
Coastal waters  
Hydrosphere  
Marginal basins

Margins (continental)  
USE: **Continental margins**

Margins (plate)  
USE: **Plate margins**

Mariculture  
USE: **Marine aquaculture**

Marigram  
USE: **Tidal curves**

**Marinas**  
UF: Yacht harbours  
BT: Artificial harbours  
RT: Recreational waters  
Yachts

Marinated products  
USE: **Cured products**

**Marine accidents**  
BT: Accidents  
NT: Capsizing  
Drowning  
Groundings  
RT: Diving accidents  
Survival at sea

Marine advection  
USE: **Advection**

Marine aerosols  
USE: **Aerosols**

**Marine aquaculture**  
UF: Coastal aquaculture  
Mariculture

Ocean farming  
Open sea aquaculture  
Sea farming  
BT: Aquaculture  
RT: Algal culture  
Cage culture  
Coral farming  
Fish culture  
Marine fish  
Seaweed culture  
Shellfish culture  
Sponge culture

Marine archaeology  
USE: **Archaeology**

Marine biological noise  
USE: **Biological noise**

Marine biologists  
USE: **Marine ecologists**

Marine biology  
USE: **Marine ecology**

Marine biotelemetry  
USE: **Biotelemetry**

**Marine birds**  
UF: Birds (marine)  
BT: Aquatic birds  
Marine organisms  
NT: Guano birds

Marine chemistry  
USE: **Chemical oceanography**

Marine crab culture  
USE: **Crab culture**

**Marine crustaceans**  
UF: Crustaceans (marine)  
BT: Aquatic crustaceans  
Marine invertebrates  
RT: Crustacean culture  
Crustacean fisheries  
Crustacean larvae  
Shellfish

**Marine debris**  
UF: Debris (marine)  
Marine garbage  
Marine litter  
Marine trash  
Ocean trash  
BT: Litter  
RT: Plastic debris

**Marine ecologists**  
UF: Marine biologists  
BT: Ecologists  
RT: Marine ecology

**Marine ecology**  
UF: Biological oceanography  
Marine biology  
Oceanology (biological)

Seashore ecology  
BT: Ecology  
Marine sciences  
RT: Aquatic communities  
Environmental factors  
Marine ecologists  
Oceanography

Marine engineering  
USE: **Ship technology**

**Marine environment**  
SN: Related to oceans and seas  
UF: Ocean environment  
BT: Aquatic environment  
NT: Intertidal environment  
RT: Aphotic zone  
Benthic environment  
Brackishwater environment  
Coastal zone  
Continental shelves  
Coral reefs  
Euphotic zone  
Eutrophic waters  
Marine fish  
Oceanography  
Pelagic environment  
Sea water

**Marine fish**  
BT: Fish  
Marine organisms  
NT: Reef fish  
RT: Demersal fisheries  
Marine aquaculture  
Marine environment  
Marine fisheries  
Tropical fish

**Marine fisheries**  
UF: Sea bass fisheries  
Sea fisheries  
BT: Fisheries  
NT: Deep-sea fisheries  
High seas fisheries  
Pelagic fisheries  
Reef fisheries  
RT: Carangid fisheries  
Cephalopod fisheries  
Coastal fisheries  
Demersal fisheries  
Echinoderm fisheries  
Estuarine fisheries  
Finfish fisheries  
Gastropod fisheries  
Marine fish  
Shellfish fisheries  
Sponge fisheries  
Tuna fisheries

Marine fittings  
USE: **Shipboard equipment**

Marine foundations  
USE: **Foundations**

Marine garbage  
USE: **Marine debris**

**Marine geodesy**

BT: Geodesy  
 Marine sciences  
 RT: Coastal geodesy  
 Dynamical oceanography  
 Surface topography

**Marine geology**

UF: Geological oceanography  
 Submarine geology  
 BT: Geology  
 Marine sciences  
 NT: Shelf geology  
 RT: Oceanic crust  
 Oceanography  
 Sedimentology  
 Stratigraphy  
 Tectonics

Marine insurance

USE: **Insurance**

**Marine invertebrates**

BT: Aquatic invertebrates  
 Marine organisms  
 NT: Marine crustaceans  
 Marine molluscs  
 RT: Brackishwater invertebrates  
 Freshwater invertebrates  
 Invertebrate zoology  
 Macroinvertebrates  
 Microinvertebrates

Marine litter

USE: **Marine debris**

**Marine mammals**

SN: Before 1982 search  
 AQUATIC MAMMALS  
 UF: Mammals (marine)  
 BT: Aquatic mammals  
 Marine organisms  
 RT: Blubber  
 Freshwater mammals

Marine meteorology

USE: **Meteorology**

**Marine molluscs**

UF: Molluscs (marine)  
 Mollusks (marine)  
 BT: Aquatic molluscs  
 Marine invertebrates  
 RT: Malacology  
 Mollusc culture  
 Mollusc fisheries  
 Shellfish

**Marine organisms**

BT: Aquatic organisms  
 NT: Marine birds  
 Marine fish  
 Marine invertebrates  
 Marine mammals  
 Marine plants  
 Sea turtles

RT: Marine resources

Seaweeds

**Marine parks**

SN: Marine areas protected  
 against human impact.  
 UF: Marine protected areas  
 Marine reserves  
 BT: Protected areas  
 RT: Freshwater parks  
 Protected resources  
 Recreational waters  
 Refuges  
 Sanctuaries  
 Spatial planning

Marine physics

USE: **Physical oceanography**

**Marine plants**

SN: Any microscopic or  
 macroscopic vegetal organism  
 living in the marine environment  
 BT: Aquatic plants  
 Marine organisms  
 NT: Sea grass  
 Seaweeds  
 RT: Algae

Marine policy

USE: **Ocean policy**

**Marine pollution**

BT: Water pollution  
 RT: Groundwater pollution  
 Land-based pollution  
 Ocean dumping

Marine propulsion

USE: **Propulsion systems**

Marine protected areas

USE: **Marine parks**

Marine regressions

USE: **Regressions**

Marine reserves

USE: **Marine parks**

**Marine resources**

BT: Natural resources  
 RT: Food resources  
 Living resources  
 Marine organisms  
 Mineral resources  
 Renewable resources

Marine risers

USE: **Riser pipes**

**Marine sciences**

BT: Aquatic sciences  
 NT: Marine ecology  
 Marine geodesy  
 Marine geology  
 Oceanography

RT: Algology

Fishery sciences  
 Hydrobiology  
 Marine scientists  
 Marine technology  
 Planktonology

**Marine scientists**

UF: Oceanographers  
 BT: Scientific personnel  
 RT: Marine sciences

Marine sedimentation

USE: **Sedimentation**

Marine shrimp culture

USE: **Shrimp culture**

**Marine snow**

SN: Large, fragile, flocculent,  
 rapidly sinking detrital organic  
 aggregates, usually comprising a  
 matrix of bacteria, protozoa and  
 phytoplankton; site of  
 photosynthesis and nutrient  
 regeneration, and an important  
 food source for some  
 zooplankton species. Before  
 1995 search SUSPENDED  
 PARTICULATE MATTER  
 RT: Algal blooms  
 Suspended particulate matter

Marine structures

USE: **Offshore structures**

**Marine technology**

BT: Technology  
 RT: Coastal engineering  
 Marine sciences  
 Offshore engineering

Marine transgressions

USE: **Transgressions**

**Marine transportation**

SN: All forms of waterborne  
 transportation  
 BT: Transportation  
 RT: Port operations  
 Shipping  
 Shipping lanes

Marine trash

USE: **Marine debris**

Marine turtles

USE: **Sea turtles**

Marine water

USE: **Sea water**

**Maritime legislation**

BT: Legislation  
 RT: Fishery regulations

Maritime piracy

USE: **Piracy**



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**Maritime safety**

SN: The protection of life and property through regulation, management and technology development of all forms of waterborne transportation. Before 2016, search MARINE TRANSPORTATION + HEALTH AND SAFETY  
BT: Health and safety  
NT: Navigational safety

Maritime space

USE: **Ocean space**

Maritime structures

USE: **Hydraulic structures**

Mark-recapture data

USE: **Capture-recapture studies**

Mark-recapture studies

USE: **Capture-recapture studies**

**Marker buoys**

BT: Buoys  
Navigational aids

Market crab fisheries

USE: **Crab fisheries**

Market management

USE: **Production management**

Market prices

USE: **Pricing**

**Market research**

UF: Marketing research  
RT: Cost analysis  
Marketing  
Pricing

**Marketing**

SN: All aspects related to the structure, process and logistics as well as performance of marketing system  
UF: Commercialization  
Marketing and distribution  
Markets  
RT: Financing  
Food traceability  
Globalization  
Management  
Market research  
Pricing  
Private sector  
Product development  
Trade

Marketing and distribution

USE: **Marketing**

Marketing legislation

USE: **Commercial legislation**

Marketing research

USE: **Market research**

Markets

USE: **Marketing**

**Marking**

SN: Any procedure which makes fish subsequently identifiable which does not employ the use of tags  
UF: Electrophoretic marking  
NT: Cold branding  
RT: Capture-recapture studies  
Staining  
Tagging

**Marl**

RT: Argillaceous deposits  
Clays  
Marlstone  
Mud  
Sedimentary rocks

**Marlstone**

BT: Clastics  
Sedimentary rocks  
RT: Argillaceous deposits  
Limestone  
Lutites  
Marl

Marsden chart

USE: **Marsden squares**

**Marsden squares**

UF: Marsden chart  
BT: Geographical reference systems  
RT: Geographical coordinates  
Meteorological data  
Oceanographic data

**Marshes**

SN: Marshes are defined as wetlands frequently or continually inundated with water, characterized by emergent soft-stemmed vegetation (rather than woody plants) adapted to saturated soil conditions. Marshes are characterized by nutrient-rich stagnant or slow-moving waters. Unlike bogs which are nutrient-poor  
UF: Prairie potholes  
Wet meadows  
BT: Wetlands  
NT: Coastal marshes  
Salt marshes  
Tidal marshes  
RT: Bayous  
Bogs  
Fens  
Lentic environment  
Mires

Muskeg

Shallow water  
Swamps

Mascaret

USE: **Tidal bores**

**Masculinization**

SN: Production of normal secondary sexual characters in a male or to produce male secondary sexual characters in a female  
RT: Aquaculture techniques  
Secondary sexual characters  
Selective breeding  
Sex characters  
Sex determination  
Sex hormones  
Sex reversal

**Mass**

BT: Physical properties  
RT: Conservation of mass  
Weight

**Mass culture**

SN: Culture of organisms in large number. Before 1982 search PHYTOPLANKTON CULTURE  
BT: Aquaculture techniques  
RT: Algal culture  
Brine shrimp culture  
Crustacean culture  
Phytoplankton culture  
Shrimp culture

**Mass extinctions**

RT: Climatic changes  
Fish kill  
Species extinction

**Mass gravity transport (sediments)**

SN: Use of a more specific term is recommended  
BT: Sediment transport  
NT: Debris flow  
Slumping

Mass mortality

USE: **Fish kill**

**Mass movement**

BT: Sediment movement  
NT: Slides  
RT: Creep  
Mass transport  
Sediment transport  
Slope stability

**Mass spectroscopy**

BT: Spectroscopic techniques  
RT: Stable isotopes

**Mass transfer**

RT: Convection  
 Diffusion  
 Energy transfer  
 Osmosis

Mass transfer (air-water exchanges)

USE: **Moisture transfer**

**Mass transport**

UF: Mass transport (water waves)  
 BT: Transport  
 RT: Mass movement  
 Sverdrup transport  
 Wave drift velocity

Mass transport (water currents)

USE: **Volume transport**

Mass transport (water waves)

USE: **Mass transport**

Mass transport velocity

USE: **Wave drift velocity**

Massive open online courses

USE: **Online instruction**

**Masticatory stomach**

BT: Stomach

**Masts**

SN: Use only for masts on buoys  
 to carry an array of  
 meteorological instruments  
 UF: Buoy masts  
 RT: Buoys

**Materials**

SN: Use of a more specific term is  
 recommended  
 NT: Alloys  
 Biogenic material  
 Buoyancy materials  
 Ceramics  
 Coating materials  
 Composite materials  
 Construction materials  
 Fibre glass  
 Gear materials  
 Hazardous materials  
 Insulating materials  
 Isotropic materials  
 Packing materials  
 Plastics  
 Radioactive materials  
 Raw materials  
 Rubber  
 Wood  
 RT: Components  
 Materials technology  
 Materials testing

Materials science

USE: **Materials technology**

**Materials technology**

UF: Materials science  
 BT: Technology  
 RT: Materials  
 Materials testing

**Materials testing**

BT: Testing  
 NT: Nondestructive testing  
 RT: Materials  
 Materials technology  
 Tomography

**Mathematical analysis**

BT: Analysis  
 NT: Convolution  
 Deconvolution  
 Fourier analysis  
 Numerical analysis  
 Spectral analysis  
 Statistical analysis  
 RT: Chaos theory  
 Green's function  
 Mathematics  
 Structural analysis

**Mathematical models**

UF: Compartmental models  
 Computer models  
 Numerical models  
 Stochastic models  
 BT: Models  
 NT: Economic models  
 Statistical models  
 Tidal models  
 RT: Algorithms  
 Analogs  
 Boundary conditions  
 Formulae  
 Game theory  
 Linear programming  
 Mathematics  
 Operations research  
 Probability theory  
 Scale models  
 Stochastic processes  
 System analysis  
 Theories

**Mathematical programming**

BT: Operations research  
 NT: Linear programming  
 RT: Game theory  
 Modelling

Mathematical tables

USE: **Tables**

**Mathematics**

NT: Chaos theory  
 RT: Biometrics  
 Computation  
 Eigenfunctions  
 Equations  
 Mathematical analysis  
 Mathematical models  
 Numerical analysis

Statistics

Maturation

USE: **Sexual maturity**

**Maximum entropy spectral analysis**

BT: Spectral analysis

Maximum sustainable yield

USE: **Potential yield**

**Mean sea level**

SN: Before 1982 search SEA  
 LEVEL  
 BT: Sea level  
 RT: Geodesy  
 Geoid  
 Levelling  
 Tidal datum

**Meandering**

BT: Water motion  
 NT: Current meandering  
 RT: Fluid motion  
 River meanders

Meandering (currents)

USE: **Current meandering**

Meanders (current)

USE: **Current rings**

Meanders (rivers)

USE: **River meanders**

Means

USE: **Resources**

**Measurement**

UF: Measuring  
 Measuring techniques  
 NT: Calorimetry  
 Density measurement  
 Depth measurement  
 Flow measurement  
 Geochronometry  
 Granulometry  
 Gravimetry  
 Hygrometry  
 Light measurement  
 Photogrammetry  
 Pressure measurement  
 Salinity measurement  
 Sound measurement  
 Telemetry  
 Temperature measurement  
 Water level measurement  
 RT: Accuracy  
 Methodology

Measuring

USE: **Measurement**

**Measuring devices**

SN: Apparatus for measuring  
 distance, volume, weight, etc.

- UF: Measuring equipment  
Measuring instruments  
Micrometer calipers  
BT: Equipment  
NT: Altimeters  
Barometers  
Bathymeters  
Chronometers  
Compasses  
Density measuring equipment  
Flow measuring equipment  
Gauges  
Gravity meters  
Hydrometers  
Hygrometers  
Light measuring instruments  
Magnetometers  
Manometers  
Mesh gauges  
Nephelometers  
Penetrometers  
Pressure gauges  
Radiometers  
Respirometers  
Salinity measuring equipment  
Scatterometers  
Seismometers  
Slope indicators  
Speedometers  
Tellurometers  
Tensometers  
Thermometers  
Turbidimeters  
Wave measuring equipment  
RT: Instruments  
Laboratory equipment  
Limnological equipment  
Oceanographic equipment  
Recording equipment  
Sensors  
Test equipment
- Measuring equipment  
USE: **Measuring devices**
- Measuring instruments  
USE: **Measuring devices**
- Measuring techniques  
USE: **Measurement**
- Mechanical bathythermographs  
USE: **Bathythermographs**
- Mechanical properties**  
BT: Physical properties  
NT: Brittleness  
Compressibility  
Deformation  
Elasticity  
Flexibility  
Strength  
Toughness  
Viscosity  
Yield point  
RT: Anisotropy  
Stress-strain relations
- Stress (mechanics)
- Mechanical stimuli**  
BT: Stimuli  
RT: Auditory organs  
Lateral line  
Mechanoreceptors
- Mechanics**  
BT: Physics  
NT: Dynamics  
Fluid mechanics  
Hydraulics  
Kinematics  
Kinetics  
Rheology  
Rock mechanics  
Soil mechanics  
RT: Momentum
- Mechanization**  
RT: Automation  
Machinery
- Mechanoreceptors**  
SN: Sense organs specialized to respond to mechanical stimuli such as pressure or deformation  
BT: Sense organs  
RT: Lateral line  
Mechanical stimuli  
Pressure effects
- Median valleys**  
SN: Before 1982 search RIFT  
VALLEYS  
BT: Rift valleys  
RT: Escarpments  
Mid-ocean ridges  
Plate divergence  
Seafloor spreading  
Submarine scarps
- Medical practice  
USE: **Medicine**
- Medicine**  
SN: Restricted to marine and underwater medical practice  
UF: Life sciences (medicine)  
Medical practice  
BT: Health and safety  
NT: Aetiology  
Underwater medicine  
RT: Biotechnology  
Diseases  
Drugs  
Human physiology  
Immunology  
Pharmacology  
Public health  
Symptoms  
Therapy
- Meetings  
USE: **Conferences**
- Megalopae  
USE: **Megalops**
- Megalops**  
UF: Megalopae  
BT: Crustacean larvae
- Megaripples  
USE: **Sand waves**
- Meiobenthic organisms  
USE: **Meiobenthos**
- Meiobenthos**  
SN: Benthic micrometazoans and foraminiferans between 63 microns and 500 microns in size  
UF: Meiobenthic organisms  
Meiofauna  
BT: Benthos  
RT: Sand
- Meiofauna  
USE: **Meiobenthos**
- Meiosis**  
UF: Reduction division  
BT: Cell division  
RT: Chromosomes  
Karyology  
Mitosis  
Nuclei
- Melanges**  
RT: Boudinage  
Debris flow  
Deformation  
Olistostromes  
Sediments
- Melanophores  
USE: **Chromatophores**
- Melt water**  
BT: Water  
RT: Ice melting  
Icebergs  
Snowmelt
- Melting**  
BT: Phase changes  
NT: Ice melting  
RT: Freezing  
Melting point  
Snowmelt  
Solidification  
Sublimation
- Melting point**  
BT: Transition temperatures  
RT: Melting
- Membranes**  
NT: Biological membranes  
Cell membranes
- Membranes (biological)  
USE: **Biological membranes**

Membranes (cells)  
USE: **Cell membranes**

**Men**  
BT: Gender  
Males  
RT: Women

**Merchant ships**  
UF: Cargo ships  
BT: Ships  
NT: Bulk carriers  
Container ships  
Passenger ships  
Selected ships  
Tanker ships  
RT: Cargoes

**Mercury**  
SN: Before 1982 search also  
MERCURY (METAL)  
UF: Mercury (metal)  
BT: Heavy metals  
RT: Mercury compounds  
Mercury isotopes

Mercury (metal)  
USE: **Mercury**

**Mercury compounds**  
BT: Chemical compounds  
RT: Mercury  
Organometallic compounds

**Mercury isotopes**  
BT: Isotopes  
RT: Mercury

**Meridional atmospheric circulation**  
BT: Atmospheric circulation  
RT: Meridional oceanic circulation

**Meridional distribution**  
SN: Distribution North-South along lines of longitude. Used only as a qualifier  
BT: Geographical distribution  
RT: Hydrographic sections  
Latitudinal variations  
Meridional oceanic circulation  
Zonal distribution

**Meridional oceanic circulation**  
SN: North-South component of ocean circulation as seen in vertical section  
BT: Ocean circulation  
RT: Meridional atmospheric circulation  
Meridional distribution  
Vertical water movement

Meristic characters  
USE: **Meristic counts**

**Meristic counts**  
UF: Meristic characters  
NT: Fin ray counts  
Gillraker counts  
Vertebrae counts  
RT: Bony fins  
Numerical taxonomy  
Stock identification  
Taxonomy

**Meromictic lakes**  
BT: Lakes  
RT: Meromixis

**Meromixis**  
RT: Meromictic lakes

**Meroplankton**  
UF: Temporary plankton  
BT: Zooplankton  
RT: Ichthyoplankton  
Larvae  
Veligers

**Mesh gauges**  
BT: Measuring devices  
RT: Mesh regulations  
Mesh selectivity

**Mesh regulations**  
BT: Fishery regulations  
RT: Mesh gauges  
Mesh selectivity  
Size-limit regulations

**Mesh selectivity**  
UF: Size selectivity  
BT: Gear selectivity  
RT: Codends  
Mesh gauges  
Mesh regulations

**Mesocosms**  
RT: Microcosms

**Mesopelagic zone**  
SN: Waters between about 200 and 500 m depth  
BT: Oceanic province  
RT: Bathyal-benthic zone  
Euphotic zone

**Mesoscale eddies**  
SN: Oceanic eddies of the order 100 km diameter  
UF: Mid-ocean eddies  
BT: Oceanic eddies  
RT: Baroclinic instability  
Conservation of vorticity  
Current meandering  
Eddy kinetic energy  
Mesoscale features

**Mesoscale features**  
UF: Mesoscale motion  
NT: Frontal features

RT: Current meandering  
Mesoscale eddies

Mesoscale motion  
USE: **Mesoscale features**

**Mesotrophic waters**  
BT: Water  
RT: Dystrophic lakes  
Eutrophic waters  
Eutrophication  
Hypereutrophic waters  
Hyperoligotrophic waters  
Hypertrophy  
Oligotrophic waters  
Trophic state

**Mesozoic**  
SN: Before 1982 search  
MESOZOIC ERA  
BT: Geological time  
NT: Cretaceous  
Jurassic  
Triassic  
RT: Phanerozoic

Messengers (chemicals)  
USE: **Hormones**

**Messinian**  
UF: Messinian events  
BT: Miocene  
RT: Palaeosalinity

Messinian events  
USE: **Messinian**

Metabolic diseases  
USE: **Metabolic disorders**

**Metabolic disorders**  
UF: Metabolic diseases  
BT: Diseases  
RT: Metabolism  
Nutrition disorders

Metabolic processes  
USE: **Metabolism**

Metabolic rate  
USE: **Metabolism**

**Metabolism**  
UF: Metabolic processes  
Metabolic rate  
NT: Anabolism  
Animal metabolism  
Catabolism  
Plant metabolism  
RT: Aestivation  
Allometry  
Biochemical oxygen demand  
Biochemical phenomena  
Bioenergetics  
Body temperature  
Digestion  
Dormancy

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- Endocrinology  
Energy flow  
Enzymatic activity  
Enzyme inhibitors  
Glands  
Growth  
Hibernation  
Hormones  
Metabolic disorders  
Metabolites  
Nutrition  
Oxygen consumption  
Oxygen demand  
Physiology  
Radionuclide kinetics  
Respiration  
Stable isotopes  
Water balance
- Metabolites**  
NT: Allelochemicals  
RT: Bioactive compounds  
Biological poisons  
Ectocrines  
Metabolism
- Metal fatigue**  
BT: Fatigue (materials)  
RT: Stress corrosion
- Metal ions**  
BT: Ions  
RT: Metals
- Metalimnion**  
UF: Seasonal thermocline (lakes)  
Thermocline (lakes)  
RT: Epilimnion  
Hypolimnion  
Intermediate water masses  
Seasonal thermocline  
Thermal stratification  
Thermocline
- Metallic elements  
USE: **Metals**
- Metalliferous brines  
USE: **Hot brines**
- Metalliferous sediments**  
BT: Chemical sediments  
RT: Copper  
Hot brines  
Hydrothermal deposits  
Iron  
Lead  
Manganese  
Metallogenesis  
Mineral resources  
Seabed deposits  
Silver  
Sulphide deposits  
Zinc
- Metallogenesis**  
UF: Metallogeny
- RT: Metalliferous sediments  
Mineral deposits
- Metallogeny  
USE: **Metallogenesis**
- Metallothioneins**  
BT: Proteins
- Metallurgy**  
BT: Technology  
RT: Alloys  
Mineral resources
- Metals**  
UF: Metallic elements  
Metals (chemical elements)  
BT: Chemical elements  
NT: Alkali metals  
Alkaline earth metals  
Heavy metals  
Rare earths  
Transition elements  
Transuranic elements  
RT: Alloys  
Chelates  
Metal ions  
Organometallic complexes  
Steel  
Trace metals
- Metals (chemical elements)  
USE: **Metals**
- Metals (materials)  
USE: **Alloys**
- Metamorphic facies**  
BT: Facies  
NT: Amphibolite facies  
Greenschist facies
- Metamorphic rocks**  
BT: Rocks  
NT: Amphibolites  
Schists  
Serpentinite  
RT: Metamorphism  
Slates  
Zeolites
- Metamorphism**  
NT: Hydrothermal alteration  
RT: Low temperature  
Metamorphic rocks  
Metasomatism
- Metamorphosis**  
SN: Any marked change in stage  
of life cycle  
BT: Biological phenomena  
NT: Moulting  
RT: Developmental stages  
Larval development  
Life cycle
- Metasomatism**  
RT: Chertification  
Diagenesis  
Hydrothermal alteration  
Metamorphism  
Serpentinization  
Silicification
- Meteorological balloons  
USE: **Balloons**
- Meteorological buoys  
USE: **Data buoys**
- Meteorological charts**  
SN: Use of a more specific term is  
recommended  
BT: Maps  
NT: Weather maps  
RT: Meteorological data  
Meteorology
- Meteorological data**  
BT: Data  
NT: Climatic data  
Meteorological observations  
Wind data  
RT: Marsden squares  
Meteorological charts  
Meteorological instruments  
Meteorology
- Meteorological equipment  
USE: **Meteorological instruments**
- Meteorological forcing  
USE: **Atmospheric forcing**
- Meteorological fronts  
USE: **Atmospheric fronts**
- Meteorological instruments**  
UF: Meteorological equipment  
BT: Instruments  
NT: Rain gauges  
RT: Actinometers  
Balloons  
Lidar  
Meteorological data  
Radiosondes  
Sodar  
Wind measuring equipment
- Meteorological observations**  
BT: Meteorological data  
RT: Weather maps
- Meteorological satellites  
USE: **Scientific satellites**
- Meteorological tables**  
UF: Conversion tables  
(meteorology)  
BT: Tables  
RT: Conversion tables  
Nautical almanacs  
Oceanographic tables

**Meteorological tides**

- BT: Tides
- RT: Atmospheric tides
  - Lunar tides
  - Radiational tides
  - Solar tides
  - Storm surges

Meteorological weather fronts

USE: **Coastal atmospheric fronts**

**Meteorologists**

- UF: Climatologists
- BT: Scientific personnel
- RT: Meteorology

**Meteorology**

- UF: Marine meteorology
- BT: Atmospheric sciences
- NT: Polar meteorology
  - Tropical meteorology
- RT: Air-sea coupling
  - Air-sea interaction
  - Atmospheric disturbances
  - Atmospheric fronts
  - Atmospheric motion
  - Atmospheric physics
  - Atmospheric precipitations
  - Atmospheric pressure
  - Earth atmosphere
  - Meteorological charts
  - Meteorological data
  - Meteorologists
  - Oceanography
  - Weather
  - Weather forecasting

**Methane**

- BT: Acyclic hydrocarbons
- RT: Chloroform
  - Gas hydrates
  - Methanogenesis

**Methanogenesis**

- RT: Methane

**Methionine**

- BT: Amino acids

**Methodology**

- UF: Methods
- RT: Analytical techniques
  - Best practices
  - Framework
  - Genotyping
  - Graphic methods
  - Manuals
  - Measurement
  - Planning
  - Standardization
  - System analysis
  - Technology

Methods

USE: **Methodology**

**Methyl mercury**

- BT: Organometallic compounds

**Micas**

- BT: Silicate minerals
- NT: Biotite
  - Glauconite
  - Muscovite
- RT: Slates

**Micro-plastic pollution**

- UF: Microplastic pollution
  - Microplastic waste
- BT: Pollution
- RT: Plastic debris

Microalgae culture

USE: **Algal culture**

Microbenthos

USE: **Benthos**

Microbial activity

USE: **Microorganisms**

**Microbial contamination**

- UF: Biological contamination
  - Microbial pollution
- BT: Pollution
- RT: Biological pollutants
  - Botulism
  - Diseases
  - Disinfection
  - Food contamination
  - Food poisoning
  - Fungi
  - Microbiological analysis
  - Microbiology
  - Microorganisms
  - Pathogens
  - Public health

Microbial degradation

USE: **Biodegradation**

**Microbial mats**

- BT: Biofilms
- RT: Algal mats
  - Biocoenosis
  - Biota
  - Biotopes
  - Microorganisms
  - Stromatolites

Microbial pollution

USE: **Microbial contamination**

**Microbiological analysis**

- BT: Analysis
- RT: Fungi
  - Microbial contamination
  - Microbiological culture
  - Microbiology
  - Microorganisms

**Microbiological culture**

- BT: Laboratory culture
- RT: Cultured organisms
  - Fungi
  - Microbiological analysis
  - Microbiology
  - Microorganisms

**Microbiological strains**

- SN: A strain is a genetic variant or subtype of a micro-organism (e.g., virus or bacterium or fungus). Before 2016 search STRAINS + MICROORGANISMS
- UF: Strains (microbiology)
- BT: Taxa
- RT: Bacteria
  - Viruses
  - Yeasts

**Microbiologists**

- BT: Biologists
- RT: Microbiology

**Microbiology**

- BT: Biology
- NT: Bacteriology
  - Mycology
  - Virology
- RT: Food technology
  - Infectious diseases
  - Microbial contamination
  - Microbiological analysis
  - Microbiological culture
  - Microbiologists
  - Microorganisms
  - Parasitology
  - Pharmacology
  - Taxonomy

Microcards

USE: **Microforms**

Microcomputers

USE: **Computers**

**Microcosms**

- RT: Mesocosms

**Microearthquakes**

- BT: Earthquakes
- RT: Microseisms

Microfauna

USE: **Microorganisms**

Microfiches

USE: **Microforms**

Microfilms

USE: **Microforms**

Microflora

USE: **Microorganisms**

**Microforms**

UF: Microcards  
 Microfiches  
 Microfilms  
 RT: Documents  
 Microphotography

**Microhabitats**

BT: Habitat  
 RT: Biotopes

**Microinjection**

SN: The injection of very small amounts of fluid, often with the aid of a microscope and microsyringes  
 BT: Genetic techniques  
 RT: Biotechnology  
 Genetically modified organisms

**Microinvertebrates**

UF: Aquatic microinvertebrates  
 BT: Aquatic invertebrates  
 RT: Brackishwater invertebrates  
 Freshwater invertebrates  
 Macroinvertebrates  
 Marine invertebrates

Micrometer calipers

USE: **Measuring devices**

Micronekton

USE: **Nekton**

**Microorganisms**

SN: Use of a more specific term is recommended. Before 1982 search MICRO-ORGANISMS  
 UF: Microbial activity  
 Microfauna  
 Microflora  
 NT: Bacteria  
 Phytoplankton  
 Probiotics  
 Viruses  
 Yeasts  
 RT: Algae  
 Algal blooms  
 Aquatic organisms  
 Biofilms  
 Epipsammon  
 Fungi  
 Microbial contamination  
 Microbial mats  
 Microbiological analysis  
 Microbiological culture  
 Microbiology  
 Nannoplankton  
 Phytobenthos  
 Prebiotics

**Micropalaeontology**

BT: Palaeontology  
 RT: Foraminifera  
 Geoid  
 Stratigraphy

**Microphones**

BT: Acoustic transducers  
 RT: Hydrophones

**Microphotography**

BT: Photography  
 RT: Microforms

Microplastic pollution

USE: **Micro-plastic pollution**

Microplastic waste

USE: **Micro-plastic pollution**

**Microprocessors**

RT: Computers

**Microsatellites**

SN: Short segments of DNA that consist of repeated sequences of nucleotides. A set of short repeated nucleotide sequences  
 RT: Chromosomes  
 DNA fingerprinting  
 Genomes  
 Nucleotide sequence

**Microscopes**

UF: Light microscopes  
 Optical microscopes  
 BT: Laboratory equipment  
 RT: Microscopy

**Microscopy**

BT: Analytical techniques  
 NT: Electron microscopy  
 Fluorescence microscopy  
 Light microscopy  
 RT: Chemical analysis  
 Cytology  
 Histology  
 Microscopes

**Microseisms**

BT: Seismic waves  
 RT: Microearthquakes

Microsomes

USE: **Ribosomes**

**Microstructure**

SN: Variations in the distribution of temperature, salinity and velocity on a scale of 10 cm or less  
 UF: Oceanic microstructure  
 BT: Spatial variations  
 NT: Salinity microstructure  
 Thermal microstructure  
 Velocity microstructure  
 RT: Double diffusion  
 Finestructure  
 Oceanic turbulence  
 Salt fingers

**Microtopography**

RT: Bottom erosion

Pock marks

Seachannels

**Microwave imagery**

UF: Radiometers (microwave)  
 BT: Imagery  
 NT: Radar imagery  
 RT: Microwave radiometers  
 Microwaves  
 Satellite mosaics  
 Satellite sensing

**Microwave radar**

BT: Radar  
 NT: Synthetic aperture radar  
 RT: Microwaves

Microwave radiation

USE: **Microwaves**

**Microwave radiometers**

BT: Radiometers  
 RT: Microwave imagery  
 Microwaves

**Microwaves**

UF: Microwave radiation  
 BT: Electromagnetic radiation  
 RT: Communication systems  
 Microwave imagery  
 Microwave radar  
 Microwave radiometers  
 Scatterometers

Mid-ocean eddies

USE: **Mesoscale eddies**

**Mid-ocean ridges**

UF: Mid-ocean rises  
 Mid-oceanic ridges  
 Midocean ridges  
 Rise (oceanic)  
 BT: Submarine ridges  
 RT: Diverging plate boundaries  
 Fracture zones  
 Median valleys  
 Plate divergence  
 Seafloor spreading  
 Seismic ridges  
 Transform faults

Mid-ocean rises

USE: **Mid-ocean ridges**

Mid-oceanic ridges

USE: **Mid-ocean ridges**

Midlatitude anticyclones

USE: **Anticyclones**

Midlatitude cyclones

USE: **Cyclones**

Midocean ridges

USE: **Mid-ocean ridges**

Midwater cages

USE: **Submerged cages**

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**Midwater trawls**

UF: Beam trawls (midwater)  
 Floating trawls  
 Otter trawls (midwater)  
 Pair trawls (midwater)  
 BT: Trawl nets  
 RT: Codends

Migrant species

USE: **Migratory species**

**Migrations**

UF: Animal migrations  
 BT: Behaviour  
 NT: Feeding migrations  
 Immigrations  
 Oceanodromous migrations  
 Potadromous migrations  
 Spawning migrations  
 Vertical migrations  
 RT: Activity patterns  
 Animal navigation  
 Autecology  
 Avoidance reactions  
 Ecological distribution  
 Geographical distribution  
 Horizontal distribution  
 Migratory species  
 Orientation behaviour  
 Overwintering  
 Phenology  
 Photoperiodicity  
 Regional variations  
 Seasonal distribution

**Migratory species**

UF: Highly migratory species  
 Migrant species  
 BT: Species  
 RT: Endemic species  
 Migrations  
 Overwintering  
 Sedentary species  
 United Nations Fish Stock Agreement

Military activities

USE: **Military operations**

**Military oceanography**

BT: Oceanography  
 RT: Defence craft  
 Military operations  
 Undersea warfare

**Military operations**

UF: Military activities  
 RT: Defence craft  
 Military oceanography  
 Military ports  
 Security  
 Surveillance and enforcement  
 Undersea warfare

**Military ports**

BT: Harbours

RT: Artificial harbours  
 Military operations  
 Naval bases

**Milk**

RT: Lactation

**Milkfish culture**

SN: Before 2016 search FISH CULTURE + species name  
 BT: Fish culture

Milt

USE: **Roes**

**Mimicry**

SN: Imitation of another organism or object in the environment (in form, color, and/or behaviour)  
 UF: Adaptive colouration  
 BT: Adaptations  
 RT: Camouflage  
 Defence mechanisms  
 Protective behaviour

**Minced products**

UF: Comminuted products  
 Fish balls  
 Fish mince  
 Fish paste  
 Kamaboko  
 Surimi  
 BT: Processed fishery products  
 RT: Fermented products

**Mine tailings**

BT: Wastes  
 RT: Bioreactors  
 Mining  
 Strip mine lakes

**Mineral assemblages**

RT: Mineral deposits

**Mineral collections**

SN: Collections of materials obtained by geological surveys  
 BT: Collections  
 RT: Mineral resources

**Mineral composition**

BT: Composition  
 RT: Hydrothermal alteration  
 Mineral resources  
 Mineralogy

**Mineral deposits**

BT: Mineral resources  
 NT: Seabed deposits  
 Subsurface deposits  
 RT: Chemical sediments  
 Metallogenesis  
 Mineral assemblages  
 Mineral exploration  
 Mineral samples  
 Mineralization  
 Minerals

Ores  
 Outcrops  
 Placer mining

**Mineral exploration**

UF: Exploratory mining  
 BT: Geophysical exploration  
 Resource exploration  
 RT: Concessions  
 Geostatistics  
 Mineral deposits  
 Mineral industry  
 Offshore operations  
 Placer mining  
 Sediment sampling

**Mineral industry**

SN: Industries of mineral resources or extraction of mineralized products of organic origin  
 BT: Industries  
 RT: Bioreactors  
 Desalination plants  
 Mineral exploration  
 Mineral processing  
 Mineral resources  
 Mining

Mineral oils

USE: **Petroleum**

**Mineral processing**

RT: Mineral industry  
 Mineral resources  
 Process plants

**Mineral resources**

BT: Natural resources  
 NT: Mineral deposits  
 Ores  
 RT: Freshwater resources  
 Marine resources  
 Metalliferous sediments  
 Metallurgy  
 Mineral collections  
 Mineral composition  
 Mineral industry  
 Mineral processing  
 Mining  
 Nodules  
 Nonrenewable resources  
 Salts  
 Underwater exploitation  
 Underwater exploration

Mineral rights

USE: **Concessions**

Mineral salts

USE: **Salts**

**Mineral samples**

BT: Geological samples  
 RT: Mineral deposits  
 Mineralogy



**Mineralization**

RT: Mineral deposits

**Mineralogy**

RT: Geochemistry  
 Geology  
 Mineral composition  
 Mineral samples  
 Minerals  
 Sediment chemistry  
 Sedimentology

**Minerals**

NT: Borate minerals  
 Carbonate minerals  
 Graphite  
 Halide minerals  
 Heavy minerals  
 Light minerals  
 Manganese minerals  
 Oxide minerals  
 Phosphate minerals  
 Silicate minerals  
 Sulphate minerals  
 Sulphide minerals  
 RT: Mineral deposits  
 Mineralogy  
 Mining

**Minicomputers**

USE: **Computers**

**Mining**

UF: Exploitation (minerals)  
 NT: Deep-sea mining  
 Placer mining  
 RT: Acid mine drainage  
 Bioreactors  
 Mine tailings  
 Mineral industry  
 Mineral resources  
 Minerals  
 Mining equipment  
 Mining legislation  
 Non-living resources

**Mining equipment**

BT: Equipment  
 RT: Hydraulic systems  
 Mining  
 Mining vessels

**Mining legislation**

BT: Legislation  
 RT: Concessions  
 Mining  
 Oil and gas legislation

**Mining vessels**

RT: Deep-sea mining  
 Mining equipment  
 Surface craft

**Miocene**

SN: Before 1982 search  
 MIOCENE EPOCH  
 BT: Neogene

NT: Messinian

**Mirages**

USE: **Atmospheric optical phenomena**

**Mires**

SN: A mire or quagmire, is a wetland terrain which is non-forested and peat-forming. Mire waters are located mostly below the soil surface level as are most of its plants. [Note: Bogs receive water mainly from precipitation, while fens are supplied with water mostly from surface and groundwater sources] Marshes and Swamps are non-peat forming. Marsh vegetation is dominated by grasses, Swamp vegetation by trees

UF: Quagmires

BT: Wetlands

NT: Bogs

Fens

RT: Marshes

Swamps

**Mist**

USE: **Fog**

**Mistral**

USE: **Local winds**

**Mitigation**

SN: Action(s) aimed at the root cause of a phenomenon so as to reduce the severity (e.g. for global warming = reducing greenhouse gases, planting trees)

RT: Management

Risk management

**Mitochondria**

SN: Before 1995 search CELL ORGANELLES

BT: Cell organelles

**Mitosis**

UF: Karokinesis

BT: Cell division

RT: Chromosomes

Gametophytes

Karyology

Meiosis

Nuclei

**Mixed gas**

UF: Helium oxygen mixture

BT: Breathing mixtures

**Mixed layer**

BT: Water column

NT: Bottom mixed layer

Surface mixed layer

RT: Isohalines

Mixed layer depth

**Mixed layer depth**

UF: Thermocline depth

BT: Depth

RT: Atmospheric forcing

Hurricanes

Mixed layer

Pycnocline

Thermocline

Mixed species culture

USE: **Polyculture**

Mixing (sediments)

USE: **Sediment mixing**

Mixing (water)

USE: **Water mixing**

**Mixing length**

BT: Length

RT: Eddy flux

Eddy viscosity

Exchange coefficients

Shear flow

Vortices

**Mixing processes**

RT: Aeration

Bioturbation

Cabbeling

Diffusion

Dispersion

Downwelling

Gas turbation

Interfaces

Overtum

Sediment mixing

Trans-isopycnal mixing

Turbulent diffusion

Turbulent entrainment

Upwelling

Water mixing

**Mixing ratio**

BT: Dimensionless numbers

Ratios

RT: Dew point

Humidity

Water vapour

**Mobile platforms**

SN: Towed or self-propelled structures with the working level above water operated in a fixed position, excluding vessels in conventional ship form

BT: Floating structures

NT: Jackup platforms

Semisubmersible platforms

Submersible platforms

RT: Decks

Fixed platforms

**Mobility**

RT: Immobilization

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Locomotion  
Motion

**Modelling**  
SN: Before 1982 search  
SIMULATION  
RT: Geostatistics  
Mathematical programming  
Models  
Simulation  
Spatial analysis  
Surplus production

**Models**  
NT: Analog models  
Mathematical models  
Scale models  
RT: Computation  
Modelling  
Prototypes  
Simulators

**Modes**  
NT: Baroclinic mode  
Barotropic mode

Modifiers  
USE: **Additives**

**Modules**  
SN: Use for prefabricated units of equipment  
UF: Skid mounted units  
RT: Equipment

**Moho**  
UF: Mohorovicic discontinuity  
BT: Seismic discontinuities  
RT: Asthenosphere  
Basement rock  
Continental drift  
Earth mantle  
Earth structure  
Lithosphere  
Plate tectonics  
Seafloor spreading  
Seismic velocities  
Tectonophysics

Mohorovicic discontinuity  
USE: **Moho**

**Moisture**  
RT: Evaporation  
Moisture transfer  
Water vapour

Moisture content  
USE: **Water content**

Moisture flux  
USE: **Moisture transfer**

**Moisture transfer**  
UF: Mass transfer (air-water exchanges)  
Moisture flux

Water vapour transfer  
RT: Air-water exchanges  
Air-water interface  
Atmospheric boundary layer  
Energy transfer  
Evaporation  
Moisture

**Molecular biology**  
SN: Used only for general overviews; use of a more specific term is recommended  
BT: Biology

**Molecular diffusion**  
BT: Diffusion  
NT: Double diffusion  
RT: Osmosis

Molecular heat conduction  
USE: **Heat conduction**

Molecular hybridization  
USE: **Hybridization**

Molecular markers  
USE: **Genetic markers**

Molecular mass  
USE: **Molecular weight**

**Molecular structure**  
RT: Molecular weight  
Molecules

Molecular taxonomy  
USE: **Chemotaxonomy**

**Molecular viscosity**  
BT: Viscosity  
RT: Laminar flow  
Momentum transfer

**Molecular weight**  
UF: Molecular mass  
BT: Weight  
RT: Chemical properties  
Molecular structure

**Molecules**  
NT: Biochemical substrates  
RT: Ligands  
Molecular structure  
Plasmids

**Mollusc culture**  
UF: Mollusk culture  
BT: Shellfish culture  
NT: Bivalve culture  
Cephalopod culture  
Gastropod culture  
RT: Aquatic molluscs  
Brackishwater molluscs  
Freshwater molluscs  
Marine molluscs  
Raft culture

**Mollusc fisheries**  
UF: Mollusk fisheries  
BT: Shellfish fisheries  
NT: Cephalopod fisheries  
Clam fisheries  
Gastropod fisheries  
Mussel fisheries  
Oyster fisheries  
Scallop fisheries  
RT: Aquatic molluscs  
Brackishwater molluscs  
Freshwater molluscs  
Marine molluscs

**Molluscan larvae**  
UF: Molluscan larvae  
BT: Invertebrate larvae  
NT: Glochidia  
Spat  
Veligers

**Molluscicides**  
UF: Molluscicides  
BT: Pesticides  
RT: Ichthyocides

Molluscs (aquatic)  
USE: **Aquatic molluscs**

Molluscs (brackishwater)  
USE: **Brackishwater molluscs**

Molluscs (freshwater)  
USE: **Freshwater molluscs**

Molluscs (marine)  
USE: **Marine molluscs**

Mollusk culture  
USE: **Mollusc culture**

Mollusk fisheries  
USE: **Mollusc fisheries**

Molluscan larvae  
USE: **Molluscan larvae**

Molluscicides  
USE: **Molluscicides**

Mollusks (brackishwater)  
USE: **Brackishwater molluscs**

Mollusks (freshwater)  
USE: **Freshwater molluscs**

Mollusks (marine)  
USE: **Marine molluscs**

Molting  
USE: **Moulting**

**Molybdenum**  
BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Molybdenum compounds  
Molybdenum isotopes

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### **Molybdenum compounds**

BT: Chemical compounds  
RT: Molybdenum

### **Molybdenum isotopes**

BT: Isotopes  
RT: Molybdenum

### **Momentum**

NT: Angular momentum  
RT: Conservation of momentum  
Diffusion  
Mechanics  
Momentum transfer

### Momentum conservation

USE: **Conservation of momentum**

### Momentum flux

USE: **Momentum transfer**

### **Momentum transfer**

UF: Momentum flux  
RT: Air-water exchanges  
Air-water interface  
Atmospheric boundary layer  
Dynamic viscosity  
Eddy viscosity  
Energy transfer  
Molecular viscosity  
Momentum  
Prandtl number  
Reynolds stresses  
Wave-current interaction  
Wave interactions  
Wind wave generation

### **Monazite**

BT: Phosphate minerals  
RT: Placers  
Thorium

### **Monin-Obukhov length**

RT: Density stratification  
Stability  
Water density

### **Monitoring**

NT: Environmental monitoring  
RT: Baseline studies  
Control  
Inspection  
Long-term changes  
Monitoring systems  
Observers

### Monitoring stations

USE: **Monitoring systems**

### **Monitoring systems**

SN: Before 1982 search  
MONITORING STATIONS  
UF: Monitoring stations  
RT: Equipment  
Fixed stations

### Monitoring

Recording equipment  
Telemetry

### **Monoclonal antibodies**

BT: Antibodies

### **Monoculture**

UF: Monospecific culture  
BT: Aquaculture techniques  
RT: Axenic culture  
Cage culture  
Crustacean culture  
Fish culture  
Freshwater aquaculture  
Polyculture  
Raceway culture

### Monocyclic hydrocarbons

USE: **Aromatic hydrocarbons**

### Monographs

USE: **Synopsis**

### Monolayers

USE: **Monomolecular films**

### **Monomolecular films**

UF: Monolayers  
BT: Surface films  
RT: Surface microlayer

### **Monosaccharides**

BT: Saccharides  
NT: Arabinose  
Fucose  
Glucose  
Mannose  
Ribose  
Xylose

### **Monosex culture**

BT: Aquaculture techniques  
RT: Fish culture  
Intensive culture

### Monospecific culture

USE: **Monoculture**

### Monoterpenes

USE: **Terpenes**

### **Monsoon reversal**

RT: Current reversal  
Equatorial circulation  
Equatorial dynamics  
Monsoons  
Tropical oceanography

### **Monsoons**

BT: Planetary winds  
RT: Monsoon reversal  
Rainy season  
Sea breezes  
Tropical environment  
Tropical meteorology  
Tropical oceanography

### **Monthly**

BT: Periodicity

### **Monthly distribution**

BT: Temporal distribution

### **Montmorillonite**

BT: Clay minerals  
RT: Bentonite

### **Moon**

RT: Astronomy  
Moon phases

### Moon effects

USE: **Moon phases**

### **Moon phases**

SN: Moon phases and their influence on behaviour of aquatic organisms and on sea level  
UF: Lunar cycles  
Lunar effects  
Moon effects  
RT: Astronomy  
Circadian rhythms  
Cycles  
Moon  
Nyctimeral rhythms  
Tides

### **Mooring buoys**

BT: Buoys  
NT: Loading buoys  
RT: Berthing  
Mooring lines  
Mooring systems

### **Mooring lines**

BT: Cables  
RT: Catenary  
Chain  
Mooring buoys  
Mooring motion effects  
Mooring systems  
Ropes  
Towing lines  
Wire angle

### **Mooring motion effects**

SN: Influence of motion on instrumental observations made from moored equipment  
BT: Motion effects  
RT: Buoy motion effects  
Mooring lines  
Mooring systems

### **Mooring recovery**

SN: Recovery of moorings for oceanographic equipment  
BT: Recovery  
RT: Buoy mooring systems

### Mooring ships

USE: **Berthing**

**Mooring systems**

SN: Use of a more specific term is recommended. Before 1982 search also MOORINGS  
 UF: Moorings  
 NT: Buoy mooring systems  
     Current meter moorings  
     Ship mooring systems  
 RT: Anchoring  
     Mooring buoys  
     Mooring lines  
     Mooring motion effects

Moorings

USE: **Mooring systems**

**Moraines**

BT: Glacial features  
 RT: Glacial deposits

**Moratoria**

SN: A mandatory cessation of fishing activities on a species, in an area, with a particular gear, and for a specified period of time.  
 UF: Moratorium  
 BT: Fishery regulations

Moratorium

USE: **Moratoria**

Morbidity

USE: **Diseases**

**Morison's equation**

BT: Equations  
 RT: Wave forces

**Morphogenesis**

SN: The development of form and structure of an organism or part of an organism  
 NT: Gametogenesis  
 RT: Embryology  
     Embryonic development  
     Evolution  
     Genetics  
     Ontogeny  
     Organism morphology  
     Organogenesis  
     Vitellogenesis

Morphology (animal)

USE: **Animal morphology**

Morphology (coastal)

USE: **Coastal morphology**

Morphology (plant)

USE: **Plant morphology**

Morphometric analysis

USE: **Morphometry**

**Morphometry**

SN: Measurement and mathematical analysis of the configuration of the earth's surface (e.g. shape and dimension of rivers, lakes, bays, water sheds, river basins etc.)  
 UF: Morphometric analysis  
     Morphometry (hydrology)  
 RT: Bathymetry  
     Bottom topography  
     Dimensions  
     Hypsometric curves  
     Shape

Morphometry (biology)

USE: **Organism morphology**

Morphometry (hydrology)

USE: **Morphometry**

Morphometry (organisms)

USE: **Organism morphology**

**Mortality**

UF: Death rate  
     Mortality rate  
 BT: Population functions  
 NT: Fishing mortality  
     Natural mortality  
     Tagging mortality  
     Total mortality  
 RT: Longevity  
     Mortality causes  
     Survival

**Mortality causes**

SN: Any known or hypothesized causes for mortality  
 RT: Algal blooms  
     Anoxia  
     Asphyxia  
     Cancer  
     Diseases  
     Diving accidents  
     Drowning  
     Epidemics  
     Famine  
     Fish kill  
     Hypercapnia  
     Hypothermia  
     Lethal effects  
     Mortality  
     Pollutants  
     Pollution effects  
     Predation  
     Slaughter  
     Starvation  
     Survival  
     Toxicants

Mortality rate

USE: **Mortality**

**Mother ships**

SN: Before 1982 search MOTHERSHIPS

BT: Support ships

RT: Fishing vessels  
     Submersibles  
     Underwater vehicles

**Motion**

UF: Movement  
 NT: Anticyclonic motion  
     Atmospheric motion  
     Buoy motion  
     Cyclonic motion  
     Fluid motion  
     Ground motion  
     Particle motion  
     Rotation  
     Sediment movement  
     Ship motion  
     Tidal motion  
     Water motion  
 RT: Displacement  
     Drift  
     Inertia  
     Mobility  
     Motion effects  
     Oscillations

**Motion effects**

SN: Effects of motion on instrumental observations  
 NT: Buoy motion effects  
     Mooring motion effects  
 RT: Motion

Motion sickness

USE: **Sea sickness**

**Motor boats**

SN: Before 1982 search BOATS  
 BT: Boats

Motor fuels

USE: **Fuels**

**Motors**

UF: Engines  
 NT: Diesel engines  
     Turbines  
 RT: Electric generators  
     Electric power sources  
     Propulsion systems

**Moulting**

UF: Ecdysis  
     Molting  
     Moulting cycle  
     Moult  
 BT: Metamorphosis  
 RT: Ecdysons

Moulting cycle

USE: **Moulting**

Moulting hormones

USE: **Ecdysons**

Moult

USE: **Moulting**

Mountain building  
USE: **Orogeny**

Mountain waves  
USE: **Lee waves**

**Mountains**  
BT: Landforms  
RT: Orogeny  
Seamounts  
Submarine ridges

Mouth (biological)  
USE: **Mouth parts**

Mouth (river)  
USE: **River mouth**

**Mouth parts**  
SN: Used for animals only  
UF: Mouth (biological)  
NT: Baleens  
Beaks  
Radulae  
Teeth  
RT: Alimentary organs

Movement  
USE: **Motion**

Movements (local)  
USE: **Local movements**

**mtDNA**  
SN: DNA of the mitochondria;  
carrier of genetic information  
useful in examining genetic  
identity of an individual  
BT: DNA

**Mucins**  
UF: Mucoproteins  
BT: Proteins  
RT: Exocrine glands  
Mucus

**Mucopolysaccharides**  
BT: Polysaccharides  
NT: Chitin  
Heparin

Mucoproteins  
USE: **Mucins**

**Mucus**  
BT: Body fluids  
Secretory products  
RT: Exocrine glands  
Mucins

**Mud**  
BT: Clastics  
NT: Fluid mud  
RT: Clays  
Cohesive sediments  
Marl

Mud banks  
Mud flats  
Oozes  
Silt  
Sludge  
Slurries  
Soils  
Tidal flats

**Mud banks**  
BT: Banks (topography)  
Bed forms  
RT: Mud  
Sand banks  
Submarine banks  
Tidal flats

**Mud flats**  
BT: Sedimentary structures  
RT: Mud

**Mud volcanoes**  
SN: Formations created created  
when mud and sand under the  
surface are squeezed upward by  
compressive forces and/or gas -  
commonly found in areas rich in  
oil and natural gas.  
BT: Volcanoes  
RT: Continental shelves  
Petroleum geology

Mudflows  
USE: **Debris flow**

Muds (drilling)  
USE: **Drilling fluids**

**Mudstone**  
BT: Clastics  
Sedimentary rocks  
RT: Lutites  
Siltstone  
Slates

**Mullet fisheries**  
BT: Finfish fisheries

**Multibeam sonar**  
BT: Active sonar

Multinational expeditions  
USE: **Multiship expeditions**

**Multiphase flow**  
UF: Three phase flow  
Two phase flow  
BT: Fluid flow  
RT: Laminar flow  
Turbulent flow  
Unsteady flow

**Multiple use of resources**  
RT: Exploitation  
Natural resources

**Multiship expeditions**  
SN: Surveys involving the use of  
two or more research vessels  
UF: Expeditions (multiship)  
International expeditions  
Multinational expeditions  
BT: Expeditions  
RT: Cruises  
Research vessels

**Multispecies fisheries**  
BT: Fisheries  
RT: Catch composition  
Dominant species  
Ecological succession

**Multispectral scanners**  
RT: Radiometers  
Remote sensing equipment  
Satellite photography  
Water colour

**Multivariate analysis**  
BT: Variance analysis

Muscle fibers  
USE: **Muscles**

**Muscles**  
UF: Muscle fibers  
Red muscles  
Smooth muscles  
Striated muscles  
Tendous musculature  
White muscles  
BT: Musculoskeletal system  
RT: Actin  
Cholinesterase inhibitors  
Glycogen  
Myoglobins  
Myosin  
Tissues

**Muscovite**  
BT: Micas

Muscular system  
USE: **Musculoskeletal system**

**Musculoskeletal system**  
SN: Before 1982 search  
MUSCULAR SYSTEM and/or  
SKELETON  
UF: Muscular system  
NT: Muscles  
Skeleton  
RT: Cartilage  
Connective tissues

**Museum collections**  
BT: Collections  
RT: Archivists  
Museums

**Museums**  
BT: Information centres  
RT: Exhibitions  
Museum collections

**Muskeg**

SN: Muskeg is a bog with scattered or clumped, stunted conifer trees. It is common in Arctic and boreal areas

BT: Bogs

RT: Fens

Marshes

Swamps

Wetlands

**Mussel culture**

SN: Before 1982 use MOLLUSC CULTURE

BT: Bivalve culture

RT: Mussel fisheries

Spat

**Mussel fisheries**

BT: Mollusc fisheries

RT: Mussel culture

**Mutagenesis**

BT: Genetics

RT: Mutagens

Mutations

**Mutagenic agents**

USE: **Mutagens**

**Mutagens**

SN: Substances producing mutations

UF: Mutagenic agents

BT: Agents

RT: Genetics

Mutagenesis

Mutations

**Mutations**

SN: Change in the characteristics of an organism by alteration of hereditary material

UF: Chromosome mutations

Gene mutations

Lethal mutations

Somatic mutations

BT: Biological phenomena

RT: Biological speciation

Bioselection

Chromosomes

Degeneration

Evolution

Genes

Genetic abnormalities

Genetic drift

Genetics

Genotypes

Mutagenesis

Mutagens

New species

**Mutualism**

USE: **Symbiosis**

**Mycobacterial infections**

USE: **Tuberculosis**

**Mycology**

BT: Microbiology

RT: Fungal diseases

Fungi

Fungicides

Parasitology

Mycoses

USE: **Fungal diseases**

Mycotic diseases

USE: **Fungal diseases**

**Myoglobins**

BT: Proteins

RT: Blood

Muscles

Myoneme

USE: **Cell organelles**

**Myosin**

BT: Proteins

RT: Muscles

**Nannofossil ooze**

RT: Calcareous ooze

Coccoliths

**Nannoplankton**

SN: Planktonic organisms smaller than 60 microns

UF: Bacterioplankton

Nanoplankton

BT: Plankton

RT: Bacteria

Filter feeders

Microorganisms

**Nanoparticles**

SN: Ultrafine particles sized between 1 and 100 nanometers

UF: Nanotubules

RT: Bioaccumulation

Ecotoxicology

Particle size

Pollutants

Pollution

Toxicity

Nanoplankton

USE: **Nannoplankton**

Nanotubules

USE: **Nanoparticles**

Nansen bottles

USE: **Water samplers**

**Naphthalene**

BT: Aromatic hydrocarbons

**Nappes**

SN: Large horizontal recumbent tectonic folds that have travelled along thrust planes

BT: Folds

RT: Tectonics

**Narcosis**

NT: Nitrogen narcosis

**Narcotics**

BT: Drugs

RT: Anaesthetics

Natality

USE: **Fecundity**

National allocation

USE: **Allocation systems**

National boundaries

USE: **International boundaries**

**National planning**

UF: Planning (national)

BT: Planning

RT: Regional planning

Native fishing

USE: **Indigenous fishing**

Native species

USE: **Natural populations**

Natural breeding

USE: **Breeding**

Natural disasters

USE: **Disasters**

Natural fibre rope

USE: **Fibre rope (natural)**

Natural food

USE: **Food organisms**

Natural frequency

USE: **Resonant frequency**

**Natural gas**

BT: Fossil fuels

Gases

NT: Liquefied natural gas

RT: Crude oil

Gas condensates

Gas fields

Gas production

Gas seepages

Gas terminals

Oil

Oil-gas interface

Oil and gas exploration

Oil and gas industry

Oil and gas legislation

Petroleum

Natural habitat

USE: **Habitat**

Natural immunity

USE: **Immunity**

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Natural increase  
USE: **Biological production**

### Natural mortality

UF: Natural mortality coefficient  
BT: Mortality  
RT: Biotic pressure  
Diseases  
Predation  
Total mortality

Natural mortality coefficient  
USE: **Natural mortality**

### Natural populations

SN: All individuals of a certain species inhabiting a specified region  
UF: Indigenous species  
Native species  
Populations (natural)  
Wild fish  
NT: Animal populations  
Plant populations  
RT: Population characteristics  
Population control  
Population dynamics  
Population factors  
Population functions  
Population genetics  
Population structure

Natural production  
USE: **Biological production**

### Natural resources

SN: Restricted to resources within or beneath the aquatic environment  
UF: Aquatic natural resources  
BT: Resources  
NT: Common property resources  
Energy resources  
Food resources  
Freshwater resources  
Living resources  
Marine resources  
Mineral resources  
Nonrenewable resources  
Renewable resources  
Unconventional resources  
Water resources  
RT: Multiple use of resources  
Protected resources  
Rare resources  
Raw materials  
Resource conservation  
Resource management  
Spatial planning

### Natural selection

UF: Survival of the fittest  
BT: Bioselection  
RT: Competition  
Environmental effects

### Nature conservation

UF: Wildlife conservation  
BT: Conservation  
NT: Coral reef conservation  
Mangrove conservation  
RT: Cryptic species  
Environment management  
Rare species  
Refuges  
Sanctuaries  
Species extinction  
Threatened species  
Vulnerable species

Nature reserves  
USE: **Protected areas**

Nature tourism  
USE: **Ecotourism**

### Nauplii

BT: Crustacean larvae

### Nautical almanacs

UF: Ephemeris  
BT: Almanacs  
RT: Meteorological tables  
Navigational tables

Nautical archaeology  
USE: **Archaeology**

Nautical bottom  
USE: **Water depth**

Nautical charts  
USE: **Navigational charts**

Naval architecture  
USE: **Ship technology**

### Naval bases

BT: Harbours  
RT: Defence craft  
Military ports

Naval craft  
USE: **Defence craft**

Naval engineering  
USE: **Ship technology**

Naval technology  
USE: **Ship technology**

### Navier-Stokes equations

BT: Equations  
RT: Hydrodynamics  
Reynolds stresses

Naviface  
USE: **Air-water interface**

Navigable channels  
USE: **Navigational channels**

### Navigation

SN: Use of a more specific term is

recommended; used only for general aspects  
UF: Surface navigation  
NT: Acoustic navigation  
Celestial navigation  
Dead reckoning  
Inertial navigation  
Navigation in ice  
Navigation underwater  
Radar navigation  
Radio navigation  
Satellite navigation  
RT: Animal navigation  
Direction finding  
Dynamic positioning  
Navigation policy  
Navigation regulations  
Navigational aids  
Navigational buoys  
Navigational hazards  
Position fixing  
Seamanship  
Ship handling  
Ship routeing  
Standard signals

Navigation (animal)  
USE: **Animal navigation**

Navigation canals  
USE: **Ship canals**

Navigation channels  
USE: **Navigational channels**

**Navigation in ice**  
SN: Before 1982 search ICE  
NAVIGATION  
UF: Ice navigation  
Polar navigation  
BT: Navigation  
RT: Ice  
Ice-free periods  
Ice breakers  
Ice breaking  
Ice breakup  
Ice jams  
Ice routeing  
Leads  
Navigation under ice  
Polar exploration

**Navigation policy**  
BT: Policies  
RT: Navigation  
Navigation regulations

**Navigation regulations**  
UF: Navigational regulations  
Shipping rules  
BT: Legislation  
NT: Harbour regulations  
RT: Collision avoidance  
Navigation  
Navigation policy  
Shipping  
Traffic management

**Navigation systems**

RT: Autopilots  
 Navigational aids

**Navigation under ice**

BT: Navigation underwater  
 RT: Inertial navigation  
 Navigation in ice  
 Polar exploration

**Navigation underwater**

UF: Seabed acoustic position fixing  
 Underwater navigation  
 BT: Navigation  
 NT: Navigation under ice  
 RT: Acoustic navigation  
 Acoustic tracking systems  
 Inertial navigation

**Navigational aids**

NT: Acoustic beacons  
 Compasses  
 Lighthouses  
 Marker buoys  
 Navigational buoys  
 Navigational charts  
 Navigational tables  
 RT: Autopilots  
 Lightships  
 Navigation  
 Navigation systems  
 Navigational safety  
 Position fixing  
 Radar

**Navigational buoys**

SN: Before 1982 search also NAVIGATION BUOYS  
 BT: Buoys  
 Navigational aids  
 RT: Navigation

**Navigational channels**

UF: Navigable channels  
 Navigation channels  
 BT: Channels  
 RT: Ship canals

**Navigational charts**

SN: Before 1982 search also NAVIGATION CHARTS  
 UF: Lattice charts  
 Nautical charts  
 Pilot charts  
 BT: Maps  
 Navigational aids  
 RT: Hydrographic surveys  
 Navigational hazards  
 Navigational safety  
 Navigational tables

**Navigational hazards**

BT: Hazards  
 RT: Navigation  
 Navigational charts

Shoals  
 Wrecks

Navigational regulations  
 USE: **Navigation regulations**

**Navigational safety**

BT: Maritime safety  
 RT: Collision avoidance  
 Collisions  
 Groundings  
 Navigational aids  
 Navigational charts

**Navigational satellites**

BT: Satellites  
 RT: Satellite navigation

**Navigational tables**

BT: Navigational aids  
 Tables  
 RT: Decca  
 Loran  
 Nautical almanacs  
 Navigational charts  
 Oceanographic tables  
 Omega

**Neap tides**

BT: Tides

Near-bottom currents  
 USE: **Bottom currents**

Near-surface circulation  
 USE: **Surface circulation**

**Near-surface layer**

SN: Part of surface layer in which surface water wave motion is a major factor in buoy and mooring motions and instrument observations, e.g. current meter readings  
 BT: Surface layers  
 RT: Surface microlayer  
 Surface water waves

**Nearshore bars**

UF: Bars  
 Offshore bars  
 Submarine bars  
 BT: Beach features  
 NT: Break-point bars  
 Longshore bars  
 Transverse bars  
 RT: Barrier beaches  
 Bed forms  
 Deposition features  
 Destructive waves  
 Nearshore dynamics  
 Sand bars

Nearshore circulation  
 USE: **Nearshore dynamics**

**Nearshore currents**

SN: Before 1982 search LITTORAL CURRENTS and ONSHORE CURRENTS  
 UF: Coastal currents (littoral)  
 Inshore currents  
 Littoral currents  
 Onshore currents  
 BT: Water currents  
 NT: Longshore currents  
 Rip currents  
 Undertow  
 RT: Coastal currents  
 Coastal oceanography  
 Estuarine dynamics  
 Nearshore dynamics  
 Upwelling  
 Wind-driven currents

**Nearshore dynamics**

UF: Nearshore circulation  
 BT: Shelf dynamics  
 RT: Bay dynamics  
 Coastal boundary layer  
 Coastal jets  
 Coastal oceanography  
 Coastal waters  
 Dynamical oceanography  
 Estuarine dynamics  
 Lake dynamics  
 Nearshore bars  
 Nearshore currents  
 Nearshore sedimentation  
 Surf zone  
 Waves on beaches

Nearshore environment  
 USE: **Coastal zone**

Nearshore oceanography  
 USE: **Coastal oceanography**

**Nearshore sedimentation**

UF: Littoral sedimentation  
 BT: Sedimentation  
 RT: Intertidal sedimentation  
 Littoral deposits  
 Nearshore dynamics  
 Sedimentary environments  
 Sublittoral zone

**Necroses**

UF: Gangrenes  
 Piscine erythrocyte necrosis  
 BT: Symptoms  
 NT: Ulcerative dermal necrosis  
 RT: Anoxia  
 Cells  
 Diseases  
 Injuries

Necton  
 USE: **Nekton**

Necton collecting devices  
 USE: **Nekton collecting devices**



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Negative ions

USE: **Anions**

Nehrung

USE: **Barrier spits**

**Nekton**

UF: Micronekton

Necton

BT: Aquatic communities

RT: Nekton collecting devices

**Nekton collecting devices**

UF: Nekton collecting devices

BT: Collecting devices

RT: Fishing nets

Nekton

Zooplankton

Nematocysts

USE: **Stinging organs**

**Neodymium**

BT: Lanthanides

RT: Neodymium isotopes

**Neodymium isotopes**

BT: Isotopes

RT: Neodymium

**Neogene**

UF: Upper tertiary

BT: Tertiary

NT: Miocene

Pliocene

**Neon**

BT: Rare gases

RT: Neon isotopes

**Neon isotopes**

BT: Isotopes

RT: Neon

Neoplasms

USE: **Tumours**

**Neoteny**

SN: Retention of larval characters

beyond the usual period

UF: Paedomorphism

BT: Biological properties

RT: Larvae

**Nepheloid layer**

UF: Nepheloid zone

BT: Discontinuity layers

RT: Continental rise

Contour currents

Light scattering

Nephelometers

Suspended particulate matter

Turbidity

Turbidity currents

Nepheloid zone

USE: **Nepheloid layer**

**Nephelometers**

BT: Measuring devices

RT: Light measuring instruments

Nepheloid layer

Photometers

Water transparency

Nephrons

USE: **Kidneys**

**Neptunium**

BT: Actinides

Transuranic elements

RT: Neptunium isotopes

**Neptunium isotopes**

BT: Isotopes

RT: Neptunium

**Neritic province**

SN: All of the water mass from the lowest tide line to the outer edge of the continental shelf

UF: Neritic region

Neritic zone

BT: Pelagic environment

RT: Continental shelves

Epipelagic zone

Littoral zone

Oceanic province

Neritic region

USE: **Neritic province**

Neritic zone

USE: **Neritic province**

Nerve cells

USE: **Neurons**

Nerve fibers

USE: **Nerves**

Nerve ganglia

USE: **Ganglia**

Nerve tissues

USE: **Nervous tissues**

**Nerves**

UF: Afferent nerves

Efferent nerves

Nerve fibers

Peripheral nerves

BT: Peripheral nervous system

RT: Brain

Connective tissues

Ganglia

Nervous tissues

**Nervous system**

BT: Anatomical structures

NT: Autonomic nervous system

Central nervous system

Peripheral nervous system

RT: Nervous tissues

Neurons

Neurophysiology

Neurosecretion

Neurosecretory system

Neurotransmitters

Synapses

Thyroid

**Nervous tissues**

UF: Nerve tissues

BT: Tissues

RT: Ganglia

Nerves

Nervous system

Neurons

Neurosecretion

Sense organs

**Nesting**

UF: Nesting activity

Nesting behaviour

RT: Bird eggs

Breeding

Breeding seasons

Breeding sites

Clutch

Hatching

Nests

Reproductive behaviour

Nesting activity

USE: **Nesting**

Nesting behaviour

USE: **Nesting**

**Nests**

RT: Bird eggs

Breeding sites

Clutch

Nesting

Redds

Net avoidance

USE: **Avoidance reactions**

Net construction

USE: **Gear construction**

Net culture

USE: **Cage culture**

**Net fishing**

BT: Catching methods

NT: Seining

Trawling

RT: Fishing nets

Net radiation

USE: **Radiation balance**

Net solar radiation

USE: **Solar radiation**

**Net sounders**

UF: Netsondes

BT: Acoustic equipment

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RT: Trawl nets  
Trawling

Net terrestrial radiation  
USE: **Terrestrial radiation**

**Nets**

NT: Fishing nets  
RT: Netting materials  
Ropes

Netsondes  
USE: **Net sounders**

**Netting materials**

SN: Hand- or machine-made material for fishing nets  
BT: Gear materials  
RT: Nets  
Synthetic fibres

Neurohumor  
USE: **Neurotransmitters**

Neurones  
USE: **Neurons**

**Neurons**

SN: Search also NEURONES  
UF: Axons  
Dendrites  
Nerve cells  
Neurones  
BT: Cells  
RT: Nervous system  
Nervous tissues  
Neurotransmitters  
Receptors  
Synapses

**Neurophysiology**

BT: Physiology  
RT: Nervous system  
Neurosecretory system  
Neurotransmitters  
Sense functions  
Sense organs

**Neurosecretion**

BT: Secretion  
RT: Nervous system  
Nervous tissues  
Neurosecretory system  
Pineal organ

**Neurosecretory system**

BT: Anatomical structures  
RT: Nervous system  
Neurophysiology  
Neurosecretion  
Pineal organ

**Neurotoxins**

SN: Toxins which affect the nervous system. Before 1982 search  
POISONS (BIOLOGICAL)

BT: Biological poisons  
RT: Botulism  
Tetrodotoxin

**Neurotransmitters**

UF: Acetylcholine  
Neurohumor  
BT: Hormones  
RT: Nervous system  
Neurons  
Neurophysiology  
Synapses

**Neuston**

BT: Aquatic communities  
RT: Plankton collecting devices

Neutrally buoyant floats

USE: **Swallow floats**

**Neutron activation analysis**

BT: Activation analysis

**New classes**

BT: New taxa

New distribution

USE: **New records**

**New families**

BT: New taxa

**New genera**

UF: New genus  
BT: New taxa  
RT: Evolution

New genus

USE: **New genera**

**New orders**

BT: New taxa

New product development

USE: **Product development**

**New products**

UF: Improved products  
BT: Products  
RT: Industrial products  
Product development

**New records**

UF: New distribution  
RT: Distribution

**New species**

BT: New taxa  
Species  
RT: Biological speciation  
Evolution  
Mutations

**New taxa**

BT: Taxa  
NT: New classes  
New families

New genera  
New orders  
New species  
New varieties  
RT: Holotypes  
Lectotype  
Type localities

**New varieties**

BT: New taxa

**New vessels**

BT: Surface craft  
RT: Ship design  
Ship technology  
Shipyards

**Niches**

UF: Ecological niches  
RT: Aquatic communities  
Behaviour  
Biotopes  
Ecosystems  
Habitat

**Nickel**

BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Nickel compounds  
Nickel isotopes

**Nickel compounds**

BT: Chemical compounds  
RT: Nickel

**Nickel isotopes**

BT: Isotopes  
RT: Nickel

**Nicotinic acid**

BT: Organic acids

**Nighttime**

RT: Daytime  
Diurnal variations

**Niobium**

UF: Columbium  
BT: Heavy metals  
RT: Niobium isotopes

**Niobium isotopes**

BT: Isotopes  
RT: Niobium

Niskin samplers

USE: **Water samplers**

Nitrate cycle

USE: **Nitrogen cycle**

**Nitrates**

BT: Nitrogen compounds  
RT: Nitrites  
Nitrogen cycle  
Nutrients (mineral)  
Salts

**Nitric acids**

SN: Before 1978 search  
INORGANIC ACIDS  
UF: Nitrous acid  
BT: Inorganic acids

**Nitrification**

BT: Chemical reactions  
RT: Denitrification  
Nitrogen cycle

**Nitrites**

BT: Nitrogen compounds  
RT: Nitrates  
Nitrogen cycle  
Salts

**Nitrogen**

BT: Atmospheric gases  
Nonmetals  
NT: Organic nitrogen  
RT: Carbon-nitrogen ratio  
Nitrogen compounds  
Nitrogen cycle  
Nitrogen fixation  
Nitrogen isotopes  
Non-conservative properties

**Nitrogen compounds**

UF: Nitrogenous compounds  
BT: Chemical compounds  
NT: Ammonia  
Nitrates  
Nitrites  
Nitrous oxide  
RT: Amino acids  
Chemical fertilizers  
Cyanides  
Nitrogen  
Nitrogen cycle  
Nitrogen fixation  
Organic compounds  
Organic nitrogen  
Proteins  
Urea

**Nitrogen cycle**

UF: Nitrate cycle  
BT: Nutrient cycles  
RT: Ammonia  
Denitrification  
Nitrates  
Nitrification  
Nitrites  
Nitrogen  
Nitrogen compounds  
Nitrogen fixation

**Nitrogen fixation**

SN: The process by which certain bacteria are able to transform elemental nitrogen into ammonia  
BT: Chemical reactions  
RT: Ammonia  
Biochemical phenomena

Nitrogen  
Nitrogen compounds  
Nitrogen cycle

**Nitrogen isotopes**

BT: Isotopes  
RT: Nitrogen

**Nitrogen narcosis**

BT: Narcosis  
RT: Decompression sickness  
Underwater medicine

**Nitrogenous compounds**

USE: **Nitrogen compounds**

**Nitrosamines**

BT: Amines

**Nitrous acid**

USE: **Nitric acids**

**Nitrous oxide**

BT: Nitrogen compounds  
Oxides

**NMR techniques**

USE: **Nuclear magnetic resonance**

**Nobbing**

USE: **Gutting**

**Noble gases**

USE: **Rare gases**

**Nodal tides**

BT: Tides  
RT: Long-period tides  
Tidal perturbation

**Node construction**

RT: Joints  
Offshore structures  
Tubing

**Nodes**

USE: **Joints**

**Nodules**

SN: Use only for chemical sediments found on seafloor  
BT: Chemical sediments  
NT: Ferromanganese nodules  
Phosphorite nodules  
RT: Cherts  
Concretions  
Mineral resources  
Seabed deposits  
Sedimentary structures

**Noise (electronics)**

USE: **Electronic noise**

**Noise (radar echoes)**

USE: **Radar clutter**

**Noise (sound)**

BT: Sound  
NT: Ambient noise  
Underwater noise  
RT: Noise reduction  
Vibration

**Noise generators**

USE: **Sound generators**

**Noise reduction**

UF: Noise suppression  
BT: Damping  
RT: Acoustic insulation  
Noise (sound)

**Noise suppression**

USE: **Noise reduction**

**Nomenclature**

USE: **Terminology**

**Nomograms**

USE: **Conversion tables**

**Non-cohesive sediments**

USE: **Cohesionless sediments**

**Non-conservative properties**

BT: Properties  
RT: Conservative properties  
Dissolved oxygen  
Nitrogen  
Phosphates  
Silicates  
Water masses

**Non-indigenous species**

USE: **Introduced species**

**Non-living resources**

SN: Use of a more specific term is recommended  
BT: Resources  
RT: Desalination  
Drinking water  
Ferromanganese nodules  
Mining  
Oil and gas production  
Power from the sea

**Non-native species**

USE: **Introduced species**

**Non-Newtonian fluids**

BT: Fluids  
RT: Rheology

**Non-parametric methods**

SN: A method commonly used in statistics to model and analyze ordinal or nominal data with small sample sizes. Unlike parametric models, nonparametric models do not require the modeler to make any assumptions about the

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- distribution of the population,  
and so is sometimes referred to  
as a distribution-free method  
UF: Distribution-free methods  
BT: Statistical analysis  
RT: Parametric methods
- Non-target species  
USE: **By catch**
- Non penaeid shrimp fisheries  
USE: **Shrimp fisheries**
- Non point pollution sources  
USE: **Nonpoint pollution sources**
- Nonconventional resources  
USE: **Unconventional resources**
- Nondestructive testing**  
UF: Acoustic emission testing  
Flaw detection  
Magnetic particle testing  
Radiographic testing  
Ultrasonic testing  
BT: Materials testing  
RT: Acoustic emission  
Tomography
- Nonferrous alloys**  
BT: Alloys
- Nonindigenous species  
USE: **Introduced species**
- Nonlinear equations**  
BT: Equations  
RT: Differential equations  
Integral equations  
Numerical analysis
- Nonlinear wave interactions**  
BT: Wave interactions  
RT: Nonlinear waves
- Nonlinear waves**  
BT: Water waves  
NT: Finite amplitude waves  
Stokes waves  
RT: Capillary waves  
Internal waves  
Linear waves  
Nonlinear wave interactions  
Shallow water waves  
Surface gravity waves  
Trapped waves
- Nonlinearity**  
RT: Variability
- Nonmetals**  
BT: Chemical elements  
NT: Aluminium  
Boron  
Carbon  
Germanium  
Halogens
- Hydrogen  
Nitrogen  
Oxygen  
Phosphorus  
Polonium  
Scandium  
Silicon  
Sulphur
- Nonpoint pollution  
USE: **Nonpoint pollution sources**
- Nonpoint pollution sources**  
UF: Diffuse pollution  
Non point pollution sources  
Nonpoint pollution  
Nonpoint source pollution  
Nonpoint sources  
BT: Pollution sources  
RT: Effluents  
Point source pollution  
Pollution  
Runoff  
Wastes  
Water pollution
- Nonpoint source pollution  
USE: **Nonpoint pollution sources**
- Nonpoint sources  
USE: **Nonpoint pollution sources**
- Nonrenewable resources**  
BT: Natural resources  
RT: Fossil fuels  
Mineral resources  
Renewable resources  
Seabed deposits
- Nontronite**  
BT: Clay minerals
- Northern lobster fisheries  
USE: **Lobster fisheries**
- Noxious organisms**  
UF: Injurious organisms  
Stinging organisms  
BT: Aquatic organisms  
NT: Poisonous organisms  
RT: Parasites  
Stinging organs  
Venom apparatus
- Nuclear division  
USE: **Cell division**
- Nuclear energy**  
UF: Atomic energy  
BT: Energy  
RT: Green energy  
Nuclear power plants  
Radioactivity
- Nuclear explosions**  
BT: Explosions  
RT: Fission products
- Radioactive contamination  
Underwater explosions
- Nuclear magnetic resonance**  
UF: NMR techniques  
RT: Spectroscopic techniques
- Nuclear membranes  
USE: **Cell membranes**
- Nuclear physics**  
UF: Atomic physics  
BT: Physics  
RT: Radioactivity  
Radioisotopes
- Nuclear power plants**  
SN: Before 1982 search POWER  
PLANTS  
UF: Atomic power plants  
BT: Power plants  
RT: Nuclear energy  
Radioactive contamination  
Radioactive wastes
- Nuclear propulsion**  
RT: Propulsion systems  
Submarines  
Underwater propulsion
- Nuclear radiations**  
BT: Ionizing radiation  
RT: Electromagnetic radiation  
Fallout  
Radioactive wastes  
Radioactivity  
Radiochemistry  
Radiometric dating
- Nuclear wastes  
USE: **Radioactive wastes**
- Nuclei**  
UF: Nucleus  
BT: Cell constituents  
RT: Genomes  
Ice nuclei  
Karyology  
Meiosis  
Mitosis  
Protooplasts
- Nucleic acids**  
BT: Organic acids  
NT: DNA  
Plasmids  
Promoters  
RNA  
RT: DNA replication  
Genetics  
Nucleotides  
Protein denaturation  
Proteins  
RNA replication
- Nucleotide sequence**  
RT: DNA fingerprinting

- Microsatellites  
Nucleotides  
Protein sequencing  
RNA sequencing  
Sequencing
- Nucleotides**  
BT: Organic compounds  
NT: ADP  
AMP  
ATP  
RT: Nucleic acids  
Nucleotide sequence  
Organic acids
- Nucleus  
USE: **Nuclei**
- Nuclides  
USE: **Isotopes**
- Nuisance species  
USE: **Invasive species**
- Numerical analysis**  
BT: Mathematical analysis  
NT: Approximation  
Finite difference method  
Finite element method  
Functional analysis  
Perturbation method  
RT: Algorithms  
Boundary value problems  
Computer programs  
Conversion tables  
Critical path method  
Differential equations  
Game theory  
Integral equations  
Mathematics  
Nonlinear equations  
Numerical taxonomy  
PERT  
Splines  
Statistical analysis  
Tidal equations
- Numerical models  
USE: **Mathematical models**
- Numerical taxonomy**  
BT: Taxonomy  
RT: Biometrics  
Correlation analysis  
Meristic counts  
Numerical analysis  
Variance analysis
- Nursery grounds**  
SN: Regions particularly rich in food organisms where feeding of fish larvae and juveniles takes place  
UF: Feeding ground  
RT: Nursery ponds  
Spawning  
Spawning grounds
- Nursery ponds**  
UF: Fish rearing ponds  
BT: Growing ponds  
RT: Nursery grounds
- Nutrient cycles**  
SN: Cycle of nutrients in aquatic environments  
BT: Biogeochemical cycle  
NT: Carbon cycle  
Nitrogen cycle  
Phosphorus cycle  
Silicon cycle  
RT: Biological production  
Nutrient deficiency  
Nutrients (mineral)
- Nutrient deficiency**  
UF: Nutrient depletion  
BT: Dietary deficiencies  
RT: Nutrient cycles  
Nutrients (mineral)  
Nutrition  
Vitamin deficiencies
- Nutrient depletion  
USE: **Nutrient deficiency**
- Nutrient salts  
USE: **Nutrients (mineral)**
- Nutrients (mineral)**  
SN: Inorganic and organic nutrients in water  
UF: Nutrient salts  
RT: Biological production  
Biological uptake  
Chemosynthesis  
Energy budget  
Eutrophication  
Fertilizers  
Hypertrophy  
Limiting factors  
Nitrates  
Nutrient cycles  
Nutrient deficiency  
Nutrition  
Phosphates  
Silicates  
Trace elements
- Nutrition**  
SN: Use of a more specific term is recommended  
UF: Human nutrition  
NT: Animal nutrition  
Plant nutrition  
RT: Feeding  
Food  
Food absorption  
Food insecurity  
Food security  
Metabolism  
Nutrient deficiency  
Nutrients (mineral)  
Nutritional requirements  
Nutritional types
- Nutritive value  
Physiology
- Nutrition disorders**  
SN: Diseases caused by deficiencies and imbalances of major dietary components  
UF: Nutritional diseases  
BT: Diseases  
RT: Anaemia  
Animal diseases  
Deficiency diseases  
Dietary deficiencies  
Diets  
Human diseases  
Husbandry diseases  
Metabolic disorders  
Nutritional requirements  
Starvation  
Vitamin deficiencies
- Nutritional diseases  
USE: **Nutrition disorders**
- Nutritional requirements**  
UF: Food requirements  
RT: Balanced diets  
Balanced rations  
Body conditions  
Deficiency diseases  
Dietary deficiencies  
Diets  
Ecological efficiency  
Feeding experiments  
Food consumption  
Hunger  
Nutrition  
Nutrition disorders  
Nutritive value  
Trophodynamic cycle
- Nutritional types**  
NT: Autotrophy  
Heterotrophy  
RT: Nutrition
- Nutritive value**  
RT: Balanced rations  
Calories  
Carbohydrates  
Dietary deficiencies  
Diets  
Feed efficiency  
Food  
Food composition  
Nutrition  
Nutritional requirements  
Proteins  
Vitamins
- Nyctimeral rhythms**  
BT: Biological rhythms  
RT: Diurnal variations  
Light effects  
Moon phases  
Phototaxis  
Phototropism

ASFA THESAURUS

**Nymphs**

BT: Insect larvae  
RT: Emergence  
Insect eggs

**Oases**

SN: Fertile or green spots in a desert or wasteland, made so by the presence of the water due to the water table reaching the surface  
BT: Landforms  
RT: Aquifers  
Deserts  
Vegetation cover

**Obduction**

RT: Continental crust  
Plate tectonics  
Plates  
Subduction

**Obituaries**

RT: Documents

**OBS**

USE: **Ocean bottom seismometers**

**Observation chambers**

BT: Manned vehicles  
NT: Bathyspheres  
RT: Tethered vehicles

**Observation platforms**

USE: **Instrument platforms**

**Observers**

SN: A certified person on board fishing vessels that collects scientific and technical information on the fishing operations and the catch for the Management Authority  
RT: Data acquisition  
Data processing  
Fishery data  
Fishery management  
Fishery policy  
Fishery protection  
Fishery surveys  
Monitoring  
Sampling  
Surveillance and enforcement  
Training

**Obsidian**

BT: Glass  
RT: Volcanic glass

**Occluded fronts**

USE: **Atmospheric fronts**

**Ocean-atmosphere system**

UF: Atmosphere-ocean system  
RT: Air-sea coupling

Air-sea interaction  
Air-water exchanges  
Climate  
Dynamical oceanography  
Earth atmosphere  
Hydrosphere  
Ocean-ice-atmosphere system  
Ocean circulation  
Teleconnections

**Ocean-ice-atmosphere system**

RT: Air-sea coupling  
Ocean-atmosphere system  
Sea ice

**Ocean basin floor**

USE: **Ocean floor**

**Ocean basins**

SN: Use for studies on major ocean basins, their origin, evolution and present configuration. Use OCEAN FLOOR for basins with each ocean and for sedimentation studies  
UF: Submarine basins  
BT: Basins  
Submarine features  
RT: Abyssal plains  
Bottom topography  
Continental drift  
Epeirogeny  
Forearc basins  
Ocean floor  
Oceanic crust  
Structural basins

**Ocean beaches**

USE: **Beaches**

**Ocean bottom seismometers**

UF: OBS  
BT: Seismometers

**Ocean bottom topography**

USE: **Bottom topography**

**Ocean circulation**

UF: General circulation (oceans)  
Oceanic circulation  
BT: Water circulation  
NT: Abyssal circulation  
Equatorial circulation  
Gyres  
Meridional oceanic circulation  
Oceanic eddies  
Thermohaline circulation  
RT: Atmospheric circulation  
Bottom topography effects  
Heat transport  
Ocean-atmosphere system  
Ocean currents  
Surface circulation  
Sverdrup transport  
Wind-driven circulation

**Ocean color**

USE: **Ocean colour**

**Ocean colour**

UF: Ocean colour  
BT: Water colour  
RT: Chlorophylls  
Environmental monitoring  
Optical properties  
Optical water types  
Phytoplankton  
Reflectance  
Remote sensing  
Suspended particulate matter

**Ocean crust**

USE: **Oceanic crust**

**Ocean current energy conversion**

USE: **Current power**

**Ocean currents**

SN: Search also WATER CURRENTS  
BT: Water currents  
RT: Bottom currents  
Boundary currents  
Countercurrents  
Current rings  
Dynamical oceanography  
Ocean circulation  
Palaeocurrents  
Shelf currents  
Subsurface currents  
Surface currents  
Undercurrents  
Wind-driven currents

**Ocean data routes**

USE: **Standard ocean sections**

**Ocean dumping**

SN: The dumping of wastes at sea  
UF: Dumping  
BT: Waste disposal  
RT: Marine pollution  
Pollution convention

**Ocean engineering**

USE: **Offshore engineering**

**Ocean environment**

USE: **Marine environment**

**Ocean farming**

USE: **Marine aquaculture**

**Ocean floor**

SN: Use for natural phenomena and processes taking place on seafloor. For tectonic studies use OCEAN BASINS. Before 1983 search also SEABED  
UF: Deep-sea bed  
Floor (ocean)  
Ocean basin floor  
Sea bed

ASFA THESAURUS

Sea floor  
Seabed  
RT: Abyssal plains  
Bottom topography  
Bottom tow  
Continental rise  
Continental slope  
Ocean basins  
Oceanic crust  
Seafloor mapping  
Seafloor sampling  
Seafloor spreading  
Submarine features  
Trenches (pipelines)

Ocean floor topography  
USE: **Bottom topography**

Ocean law  
USE: **Law of the sea**

**Ocean loading**  
UF: Tidal loading  
BT: Loads (forces)  
RT: Cyclic loading  
Earth tides  
Tides

Ocean outfalls  
USE: **Outfalls**

Ocean plateaux  
USE: **Submarine plateaux**

**Ocean policy**  
SN: Search also MARINE POLICY  
UF: Marine policy  
BT: Policies  
RT: Law of the sea  
Ocean space  
Seabed conventions

Ocean ranching  
USE: **Ranching**

**Ocean space**  
SN: In the legal aspect only  
UF: Maritime space  
NT: Contiguous zones  
Exclusive economic zone  
High seas  
International waters  
Territorial waters  
RT: Extended jurisdiction  
Ocean policy

**Ocean stations**  
UF: Ocean weather stations  
BT: Fixed stations  
RT: Data buoys  
Data reports  
Weather ships

Ocean surface temperature  
USE: **Surface temperature**

Ocean surveillance  
USE: **Surveillance and enforcement**

Ocean thermal energy conversion  
USE: **OTEC**

**Ocean tides**  
BT: Tides

Ocean trash  
USE: **Marine debris**

Ocean water  
USE: **Sea water**

Ocean waves  
USE: **Surface water waves**

Ocean weather ships  
USE: **Weather ships**

Ocean weather stations  
USE: **Ocean stations**

Oceanaria  
USE: **Aquaria**

**Oceanic boundary layer**  
BT: Boundary layers  
RT: Air-water interface  
Surface Ekman layer  
Surface mixed layer  
Upper ocean

Oceanic circulation  
USE: **Ocean circulation**

**Oceanic convection**  
BT: Convection

**Oceanic convergences**  
BT: Convergence zones  
NT: Polar convergences  
Subtropical convergences  
RT: Advection  
Downwelling  
Oceanic divergences  
Water masses

**Oceanic crust**  
SN: Before 1983 search also SUBMARINE CRUST  
UF: Crust (ocean)  
Ocean crust  
Submarine crust  
Suboceanic crust  
BT: Earth crust  
RT: Continental crust  
Crustal accretion  
Marine geology  
Ocean basins  
Ocean floor  
Oceanization  
Sima  
Subduction

**Oceanic deserts**  
RT: Gyres

**Oceanic divergences**  
BT: Divergence zones  
RT: Oceanic convergences  
Upwelling

**Oceanic eddies**  
SN: Before 1982 search EDDIES (OCEANIC)  
UF: Eddies (oceanic)  
BT: Eddies  
Ocean circulation  
NT: Current rings  
Mesoscale eddies  
RT: Oceanic fronts

**Oceanic fronts**  
SN: Waters from the shelf breaks towards deeper waters; not a synonym of marine fronts  
UF: Oceanographic fronts  
BT: Fronts  
NT: Benthic fronts  
Density fronts  
RT: Convergence  
Divergence  
Estuarine fronts  
Frontal features  
Oceanic eddies  
Subtropical convergences

**Oceanic islands**  
BT: Islands  
NT: Volcanic islands

Oceanic microstructure  
USE: **Microstructure**

**Oceanic province**  
UF: Oceanic region  
BT: Pelagic environment  
NT: Abyssopelagic zone  
Bathypelagic zone  
Epipelagic zone  
Mesopelagic zone  
RT: Neritic province

Oceanic region  
USE: **Oceanic province**

**Oceanic response**  
UF: Response (oceanic)  
RT: Atmospheric forcing  
Hurricanes  
Response time

Oceanic ridges  
USE: **Submarine ridges**

**Oceanic trenches**  
SN: Before 1982 search TRENCHES  
UF: Submarine trenches  
Trenches (oceanic)  
BT: Submarine features

RT: Benioff zone  
 Continental margins  
 Converging plate boundaries  
 Deep-sea furrows  
 Forearc basins  
 Island arcs  
 Plate convergence  
 Potential temperature  
 Subduction zones  
 Valleys

**Oceanic turbulence**

BT: Turbulence  
 RT: Dye dispersion  
 Microstructure  
 Water motion  
 Wave dissipation

**Oceanite**

BT: Basalts

**Oceanization**

SN: Conversion of continental  
 crust into oceanic crust  
 RT: Continental crust  
 Oceanic crust

**Oceanodromous migrations**

BT: Migrations  
 RT: Feeding migrations  
 Spawning migrations

Oceanographers

USE: **Marine scientists**

**Oceanographic atlases**

BT: Atlases  
 RT: Climatological charts  
 Geological maps  
 Hydrographic charts  
 Hydrographic sections  
 Oceanographic data  
 Oceanography

Oceanographic buoys

USE: **Data buoys**

Oceanographic cartography

USE: **Cartography**

Oceanographic charts

USE: **Hydrographic charts**

**Oceanographic data**

BT: Data  
 NT: Bathymetric data  
 Bathythermographic data  
 RT: Current data  
 Marsden squares  
 Oceanographic atlases  
 Oceanographic surveys  
 Salinity data  
 Standard ocean sections  
 Time series  
 Water temperature data  
 Wave data

**Oceanographic equipment**

UF: Oceanographic instruments  
 BT: Equipment  
 RT: Bathymeters  
 Cable depressors  
 Collecting devices  
 Data buoys  
 Deck equipment  
 Depth recorders  
 Free-fall instruments  
 GEK  
 Geophysical equipment  
 Laboratory equipment  
 Measuring devices  
 Profilers  
 Remote sensing equipment  
 Samplers  
 Sensors  
 Sound recorders  
 Sounding lines  
 Streamers  
 Thermistor chains  
 Undulators

Oceanographic fronts

USE: **Oceanic fronts**

**Oceanographic institutions**

SN: Before 1982 use  
 OCEANOLOGICAL  
 INSTITUTIONS  
 UF: Oceanological institutions  
 BT: Research institutions  
 RT: Biological institutions  
 Fishery institutions  
 Oceanography

Oceanographic instruments

USE: **Oceanographic equipment**

Oceanographic satellites

USE: **Scientific satellites**

**Oceanographic stations**

SN: Use of a more specific term is  
 recommended  
 UF: Stations (oceanographic)  
 NT: Cruise stations  
 Drifting stations  
 Fixed stations  
 Standard ocean sections  
 RT: Station keeping  
 Station lists

**Oceanographic surveys**

SN: Before 1983 search also  
 ENVIRONMENTAL  
 SURVEYS  
 BT: Environmental surveys  
 RT: Geological surveys  
 Hydrography  
 Oceanographic data  
 Oceanography  
 Site surveys  
 Standard ocean sections

**Oceanographic tables**

BT: Tables  
 NT: Salinity tables  
 RT: Conversion tables  
 Meteorological tables  
 Navigational tables  
 Tide tables

**Oceanography**

SN: Before 1982 search also  
 OCEANOLOGY  
 UF: Oceanology  
 BT: Earth sciences  
 Marine sciences  
 NT: Chemical oceanography  
 Coastal oceanography  
 Dynamical oceanography  
 Fishery oceanography  
 Military oceanography  
 Palaeoceanography  
 Physical oceanography  
 Polar oceanography  
 Radio oceanography  
 Tropical oceanography  
 RT: Marine ecology  
 Marine environment  
 Marine geology  
 Meteorology  
 Oceanographic atlases  
 Oceanographic institutions  
 Oceanographic surveys

Oceanological institutions

USE: **Oceanographic institutions**

Oceanology

USE: **Oceanography**

Oceanology (biological)

USE: **Marine ecology**

**Oceans**

UF: Seas  
 BT: Water bodies  
 NT: Marginal seas  
 RT: Upper ocean

OCS

USE: **Outer continental shelf**

**Octopus culture**

BT: Cephalopod culture  
 RT: Cephalopod fisheries

Octopus fisheries

USE: **Cephalopod fisheries**

Odor

USE: **Odour**

**Odour**

SN: Before 1982 search  
 ORGANOLEPTIC  
 PROPERTIES  
 UF: Aroma  
 Odor  
 BT: Organoleptic properties



- RT: Olfaction
- Odour imprinting  
USE: **Imprinting**
- Oesophagus**  
UF: Esophagus  
RT: Digestive system
- Oestrogen**  
UF: Estrogens  
BT: Sex hormones  
RT: Sex characters  
Sex determination
- Off-bottom culture**  
UF: Hanging culture  
Long-line culture  
Pole culture  
Rack culture  
Suspended culture  
BT: Aquaculture techniques  
RT: Raft culture  
Seaweed culture  
Shellfish culture
- Off flavour**  
RT: Palatability  
Taste
- Offshore**  
RT: Continental shelves
- Offshore bars  
USE: **Nearshore bars**
- Offshore completion  
USE: **Well completion**
- Offshore docking**  
BT: Berthing  
RT: Artificial harbours  
Deep-water terminals  
Tanker terminals
- Offshore drilling  
USE: **Drilling**
- Offshore engineering**  
SN: Before 1982 search also  
MARINE ENGINEERING and  
OFFSHORE TECHNOLOGY  
UF: Ocean engineering  
Offshore technology  
Seabed engineering  
Underwater engineering  
BT: Engineering  
RT: Geotechnology  
Marine technology  
Offshore structures  
Petroleum engineering  
Underwater exploitation  
Underwater exploration  
Underwater structures
- Offshore equipment**  
BT: Equipment
- RT: Offshore operations
- Offshore operations**  
NT: Deep-sea drilling  
Deep-sea mining  
RT: Locations (working)  
Mineral exploration  
Offshore equipment  
Oil and gas exploration  
Tanker loading  
Wind farms
- Offshore platforms  
USE: **Offshore structures**
- Offshore protection  
USE: **Surveillance and enforcement**
- Offshore structures**  
SN: Before 1982 search MARINE  
STRUCTURES  
UF: Marine structures  
Offshore platforms  
Platforms (offshore)  
BT: Hydraulic structures  
NT: Articulated columns  
Artificial islands  
Artificial reefs  
Caissons  
Fixed platforms  
Floating structures  
Underwater structures  
RT: Accommodation  
Concrete structures  
Decommissioning  
Design wave  
Node construction  
Offshore engineering  
Perforated structures  
Steel structures  
Structural engineering  
Wind farms  
Work platforms
- Offshore technology  
USE: **Offshore engineering**
- Offshore terminals**  
BT: Tanker terminals  
RT: Berthing  
Loading buoys
- Offspring**  
SN: New organisms produced by  
either sexual or asexual  
reproduction  
NT: Genets  
Progeny  
RT: Children
- Oil**  
RT: Crude oil  
Hydrocarbons  
Natural gas  
Oil and gas exploration  
Oil and gas industry
- Oil and gas legislation  
Oil fields  
Oil pollution  
Oil production  
Petroleum
- Oil-gas interface**  
UF: Gas-oil interface  
BT: Interfaces  
RT: Gases  
Natural gas  
Oil-water interface  
Petroleum
- Oil-ice interface  
USE: **Ice-oil interface**
- Oil-water interface**  
UF: Water-oil interface  
BT: Interfaces  
RT: Oil-gas interface  
Oil in water content  
Petroleum
- Oil and gas exploration**  
UF: Exploratory drilling  
BT: Geophysical exploration  
Resource exploration  
RT: Concessions  
Drilling  
Hydraulic fracturing  
Leases  
Natural gas  
Offshore operations  
Oil  
Oil and gas fields  
Oil and gas industry  
Petroleum geology
- Oil and gas fields**  
NT: Gas condensate fields  
Gas fields  
Marginal fields  
Oil fields  
RT: Oil and gas exploration  
Oil and gas industry  
Oil and gas production  
Petroleum
- Oil and gas industry**  
SN: Before 1982 search OIL  
INDUSTRY  
UF: Gas industry  
Oil industry  
Petroleum industry  
BT: Industries  
RT: Gas terminals  
Natural gas  
Oil  
Oil and gas exploration  
Oil and gas fields  
Oil and gas legislation  
Oil and gas production  
Oil refineries  
Oil wastes  
Petroleum  
Process plants

**Oil and gas legislation**

BT: Legislation  
 RT: Concessions  
 Mining legislation  
 Natural gas  
 Oil  
 Oil and gas industry

**Oil and gas production**

SN: Pertains to petroleum production  
 UF: Exploitation (oil and gas)  
 Production (oil and gas)  
 NT: Gas production  
 Oil production  
 RT: Decommissioning  
 Gas oil separation  
 Gas processing  
 Non-living resources  
 Oil and gas fields  
 Oil and gas industry  
 Oil recovery  
 Oil treating  
 Oil wells  
 Production platforms  
 Subsea production systems  
 Well workover operations

Oil barriers

USE: **Oil removal**

Oil booms

USE: **Floating barriers**

Oil extraction (animal)

USE: **Animal oil extraction**

**Oil fields**

BT: Oil and gas fields  
 RT: Oil  
 Oil production  
 Oil reservoirs

Oil films

USE: **Surface films**

Oil gas separation

USE: **Gas oil separation**

**Oil in water content**

RT: Emulsions  
 Oil-water interface  
 Oil production

Oil industry

USE: **Oil and gas industry**

Oil leaks

USE: **Oil spills**

**Oil pollution**

BT: Pollution  
 RT: Ice-oil interface  
 Oil  
 Oil removal  
 Oil seepages

Oil slicks  
 Oil spills  
 Oil wastes  
 Sediment pollution  
 Tar balls  
 Water pollution

Oil potential

USE: **Oil reserves**

Oil processing

USE: **Oil treating**

**Oil production**

SN: Pertains to surface equipment and methods used to produce oil from underground reservoirs  
 UF: Crude oil production  
 BT: Oil and gas production  
 RT: Crude oil  
 Oil  
 Oil fields  
 Oil in water content  
 Oil reserves

**Oil recovery**

RT: Crude oil  
 Oil and gas production

**Oil refineries**

UF: Refineries  
 RT: Oil and gas industry  
 Process plants

**Oil removal**

SN: Oil removal in aquatic environment by mechanical or chemical techniques. Before 1982 search also SKIMMERS and OIL SKIMMERS  
 UF: Oil barriers  
 Oil removers  
 Oil skimmers  
 Skimmers (oil removal)  
 RT: Adsorption  
 Dispersants  
 Oil pollution  
 Oil slicks  
 Oil spills  
 Solvents  
 Water pollution treatment

Oil removers

USE: **Oil removal**

**Oil reserves**

UF: Oil potential  
 RT: Energy resources  
 Geostatistics  
 Green energy  
 Oil production  
 Oil reservoirs

**Oil reservoirs**

UF: Reservoirs (oil)  
 RT: Cap rocks  
 Geostatistics

Oil fields  
 Oil reserves  
 Petroleum geology

Oil rigs

USE: **Drilling rigs**

**Oil sands**

UF: Tar sands  
 BT: Sandstone  
 RT: Asphalt  
 Bitumens  
 Hydrocarbons  
 Oil shale  
 Petroleum residues  
 Subsurface deposits  
 Tar

Oil seals

USE: **Seals (stoppers)**

**Oil seepages**

BT: Seepages  
 RT: Oil pollution

**Oil shale**

BT: Shale  
 RT: Hydrocarbons  
 Kerogen  
 Oil sands  
 Petroleum residues  
 Subsurface deposits

Oil skimmers

USE: **Oil removal**

**Oil slicks**

SN: Layers of oily substances on water surface. Before 1982 search also SLICKS  
 UF: Slicks (oil)  
 BT: Slicks  
 RT: Containment  
 Oil pollution  
 Oil removal  
 Oil spills  
 Oil wastes  
 Surface films

**Oil spills**

SN: Spilling from tankers, pipelines and drilling operations  
 UF: Leaks (oil)  
 Oil leaks  
 BT: Accidents  
 RT: Containment  
 Dispersants  
 Fire hazards  
 Ice-oil interface  
 Oil pollution  
 Oil removal  
 Oil slicks  
 Oil wastes

Oil tankers

USE: **Tanker ships**

**Oil tanks**

BT: Tanks  
RT: Underwater structures

## Oil terminals

USE: **Tanker terminals**

**Oil treating**

SN: Pertains to field operations  
UF: Crude oil treating  
Oil processing  
RT: Gas flaring  
Oil and gas production  
Separation processes

**Oil wastes**

BT: Wastes  
RT: Industrial wastes  
Oil and gas industry  
Oil pollution  
Oil slicks  
Oil spills

**Oil water separation**

UF: Water oil separation  
BT: Separation  
RT: Adsorption  
Water treatment

## Oil well blowouts

USE: **Blowouts**

**Oil wells**

UF: Wells (oil and gas)  
RT: Drilling  
Oil and gas production  
Petroleum  
Underwater exploitation  
Well completion

## Oils (fish)

USE: **Fish oils**

**Oleic acid**

BT: Organic acids

**Olfaction**

BT: Sense functions  
RT: Alarm substances  
Chemoreception  
Odour  
Olfactory organs

**Olfactory organs**

BT: Sense organs  
RT: Chemical stimuli  
Chemoreceptors  
Chemotaxis  
Olfaction

## Olfactory stimuli

USE: **Chemical stimuli**

**Oligocene**

BT: Palaeogene

**Oligotrophic lakes**

BT: Lakes  
RT: Dystrophic lakes  
Eutrophic lakes  
Eutrophic waters  
Hypereutrophic waters  
Oligotrophic waters

**Oligotrophic waters**

BT: Water  
RT: Dystrophic lakes  
Eutrophic waters  
Eutrophication  
Hypereutrophic waters  
Hyperoligotrophic waters  
Hypertrophy  
Mesotrophic waters  
Oligotrophic lakes  
Trophic state

## Olistoliths

USE: **Sedimentary structures**

**Olistostromes**

RT: Debris flow  
Melanges  
Sedimentary structures  
Slump structures  
Turbidity current structures

**Olivine**

BT: Silicate minerals

**Omega**

BT: Radio navigation  
RT: Navigational tables

**Omnivores**

BT: Heterotrophic organisms  
RT: Carnivores  
Detritus feeders  
Herbivores  
Piscivores  
Trophic levels

**One-atmosphere systems**

RT: Deep-sea diving  
Diving bells  
Diving suits  
Life support systems

## Online courses

USE: **Online instruction**

**Online instruction**

SN: Learning process that is facilitated by or based entirely on the use of electronic tools and content  
UF: Electronic learning  
Internet training  
Massive open online courses  
Online courses  
Online training  
Virtual classrooms  
Web-based instruction  
Web-based training

## Web based training

RT: Education  
Extension activities  
Information retrieval  
Information services  
Information systems  
Internet  
Research  
Technology transfer  
Training  
Training aids

## Online training

USE: **Online instruction**

## Onshore currents

USE: **Nearshore currents**

**Ontogeny**

BT: Biogeny  
RT: Biological development  
Developmental stages  
Embryology  
Life cycle  
Morphogenesis  
Organogenesis  
Phylogeny

**Oocytes**

BT: Eggs

**Oogenesis**

UF: Ovogenesis  
BT: Gametogenesis  
RT: Eggs  
Ovaries  
Ovulation  
Sexual cells  
Vitellogenesis

**Ooids**

RT: Concretions  
Oolites

**Oolites**

RT: Concretions  
Limestone  
Ooids

## Oospores

USE: **Spores**

## Ooze (calcareous)

USE: **Calcareous ooze**

## Ooze (siliceous)

USE: **Siliceous ooze**

**Oozes**

NT: Calcareous ooze  
Siliceous ooze  
RT: Biogenic deposits  
Mud  
Sapropels  
Sediments  
Shells

**Opal**

UF: Opaline  
BT: Silicate minerals

Opaline

USE: **Opal**

Open access resources

USE: **Common property resources**

Open channel flow

USE: **Channel flow**

Open mines

USE: **Pits**

Open running water culture

USE: **Open systems**

Open sea aquaculture

USE: **Marine aquaculture**

**Open systems**

SN: An aquaculture water system in which water continuously flows through the culture area and is discharged after a single pass

UF: Open running water culture

BT: Aquaculture systems

RT: Cooling systems

Thermal aquaculture

Operating costs

USE: **Operational costs**

**Operational costs**

UF: Manufacturing costs

Operating costs

BT: Costs

RT: Taxes

**Operations research**

NT: Critical path method

Game theory

Mathematical programming

PERT

RT: Mathematical models

Planning

Probability theory

Simulation

Statistical models

Stochastic processes

System analysis

Ophiolite complexes

USE: **Ophiolites**

**Ophiolites**

UF: Ophiolite complexes

BT: Ultramafic rocks

**Optical classification**

SN: Optical classification of water masses

BT: Classification

RT: Irradiance

Optical water types

Water masses

**Optical filters**

BT: Filters

RT: Cameras

Light absorption

Light transmission

Optical instruments

**Optical instruments**

RT: Light measuring instruments

Optical filters

Optics

Optical masers

USE: **Lasers**

Optical microscopes

USE: **Microscopes**

Optical microscopy

USE: **Light microscopy**

**Optical properties**

BT: Physical properties

NT: Absorptance

Angular distribution

Attenuance

Colour

Extinction coefficient

Reflectance

Refractive index

Scattering coefficient

Spectral composition

Transmittance

Transparency

Volume scattering function

RT: Anisotropy

Emissivity

Irradiance

Light

Light effects

Light intensity

Ocean colour

Optics

Polarization

Radiance

Surface properties

**Optical water types**

BT: Water types

RT: Irradiance

Ocean colour

Optical classification

Transmittance

**Optics**

BT: Physics

RT: Atmospheric optical phenomena

Fibre optics

Lasers

Light

Optical instruments

Optical properties

Photography

Visibility

Vision

**Orbital velocity**

UF: Particle velocity (waves)

Wave particle velocity

BT: Velocity

RT: Particle motion

Water waves

Wave drift velocity

Wave velocity

**Ordovician**

SN: Before 1982 search

ORDOVICIAN SYSTEM

BT: Palaeozoic

Ore carriers

USE: **Bulk carriers**

**Ores**

BT: Mineral resources

RT: Mineral deposits

Subsurface deposits

**Organ removal**

BT: Removal

NT: Castration

Eyestalk extirpation

Hypophysectomy

Ovariectomy

RT: Body organs

Contraception

Regeneration

Transplants

Organ transplants

USE: **Transplants**

Organelles

USE: **Cell organelles**

**Organic acids**

UF: Carboxylic acids

BT: Acids

Organic compounds

NT: Acrylic acid

Amino acids

Arachidonic acid

Carbonic acid

Fatty acids

Fulvic acids

Glycolic acid

Humic acids

Nicotinic acid

Nucleic acids

Oleic acid

RT: Alginates

Carboxylic acid salts

Inorganic acids

Lactate

Nucleotides

**Organic aquaculture**

SN: The system of management and production that combines

best environmental practices,  
high level of biodiversity,  
preservation of natural resources,  
application of high animal  
welfare standards and a reduction  
method in line with the  
preferences of certain consumers  
for products produced using  
natural substances and processes  
BT: Aquaculture  
RT: Certification  
Ecolabelling

**Organic carbon**

BT: Carbon  
Organic matter  
NT: Dissolved organic carbon  
Particulate organic carbon  
Total organic carbon

**Organic compounds**

UF: Compounds (organic)  
BT: Chemical compounds  
NT: Alcohols  
Aldehydes  
Alkaloids  
Amines  
Azines  
Bioactive compounds  
Carbohydrates  
Esters  
Histamines  
Hydrocarbons  
Ketones  
Lipids  
Nucleotides  
Organic acids  
Organometallic compounds  
Proteins  
Purines  
Urea  
RT: Aromatics  
Boron compounds  
Carbon compounds  
Chelates  
Chlorine compounds  
Fluorine compounds  
Halogen compounds  
Nitrogen compounds  
Organic constituents  
Organometallic complexes  
Phosphorus compounds

**Organic constituents**

SN: Any organic components of  
biological material  
NT: Dietary fibre  
RT: Amino acids  
Biochemical analysis  
Biochemical composition  
Carbohydrates  
Fats  
Organic compounds  
Proteins

Organic detritus  
USE: **Detritus**

**Organic fertilizers**

SN: Substances of natural origin  
used to fertilize soils or the  
aquatic environment  
BT: Fertilizers  
NT: Composts  
Guano  
Manure  
RT: Fish meal  
Urea

**Organic matter**

NT: Dissolved organic matter  
Humus  
Organic carbon  
Organic sediments  
Particulate organic matter  
RT: Anoxic sediments  
Kerogen

**Organic nitrogen**

BT: Nitrogen  
NT: Dissolved organic nitrogen  
Particulate organic nitrogen  
RT: Nitrogen compounds

**Organic phosphorus**

BT: Phosphorus  
NT: Dissolved organic phosphorus  
Particulate organic phosphorus

**Organic production**

USE: **Biological production**

**Organic sediments**

UF: Carbonaceous deposits  
BT: Biogenic deposits  
Organic matter  
NT: Peat  
Sapropels  
RT: Chemical sediments  
Petroleum

**Organic suspended matter**

USE: **Suspended organic matter**

**Organic wastes**

UF: Animal wastes  
BT: Wastes  
NT: Fish wastes  
RT: Biological treatment  
Domestic wastes  
Sewage  
Sludge

**Organisations**

USE: **Organizations**

**Organism aggregations**

SN: A grouping or crowding of  
separate organisms  
UF: Aggregations (organisms)  
RT: Aquatic communities  
Aquatic organisms

**Organism associations**

USE: **Ecological associations**

**Organism dating**

USE: **Age determination**

**Organism guiding**

USE: **Guiding devices**

**Organism morphology**

SN: Before 1982 search  
MORPHOLOGY  
(ORGANISMS)  
UF: External anatomy  
Morphometry (biology)  
Morphometry (organisms)  
BT: Biology  
NT: Animal morphology  
Cell morphology  
Plant morphology  
RT: Anatomy  
Biopolymorphism  
Functional morphology  
Morphogenesis  
Ornamentation  
Phenotypes  
Sexual dimorphism  
Taxonomy  
Tomography

**Organisms (aquatic)**

USE: **Aquatic organisms**

**Organizations**

UF: Associations  
Organisations  
Societies  
NT: Companies  
Education establishments  
Financial institutions  
Fishery organizations  
Information centres  
International organizations  
Research institutions  
Trade organizations  
Water authorities  
RT: Conferences  
Institutional resources  
Personnel

**Organogenesis**

SN: The formation and  
development of organs  
UF: Organogeny  
RT: Body organs  
Embryology  
Morphogenesis  
Ontogeny  
Vitellogenesis

**Organogeny**

USE: **Organogenesis**

**Organoleptic properties**

BT: Properties  
NT: Digestibility  
Odour  
Taste  
RT: Water properties

**Organometallic complexes**

RT: Ligands  
Metals  
Organic compounds

**Organometallic compounds**

BT: Organic compounds  
NT: Methyl mercury  
RT: Mercury compounds

Organs (animal)

USE: **Animal organs**

Organs (body)

USE: **Body organs**

Organs (plant)

USE: **Plant organs**

**Orientation**

SN: For biological purposes use  
ORIENTATION BEHAVIOUR  
NT: Core orientation  
Grain orientation  
RT: Animal navigation  
Anisotropy  
Isotropy  
Orientation behaviour  
Polarization  
Vertical migrations

Orientation (biological)

USE: **Orientation behaviour**

**Orientation behaviour**

UF: Animal orientation  
Orientation (biological)  
BT: Behaviour  
NT: Kinesis  
Taxis  
RT: Antennae  
Migrations  
Orientation  
Sense functions  
Stimuli  
Tropism

Ormer culture

USE: **Abalone culture**

Ormer fisheries

USE: **Gastropod fisheries**

Ornament (biological)

USE: **Ornamentation**

**Ornamental fish**

UF: Aquarium fish  
BT: Fish  
RT: Aquaria  
Aquarium culture  
Tropical fish

**Ornamentation**

SN: Secondary sexual  
characteristic of an animal that  
appears to serve a decorative

function rather than an  
ostensible, utilitarian function.  
Ornaments are used in displays  
to attract mates in a process  
known as sexual selection

UF: Ornament (biological)  
BT: Secondary sexual characters  
RT: Genes  
Organism morphology  
Sexual behaviour  
Sexual selection

**Ornithine**

BT: Amino acids

**Ornithologists**

BT: Zoologists  
RT: Ornithology

**Ornithology**

BT: Vertebrate zoology  
RT: Aquatic birds  
Ornithologists

Orogenesis

USE: **Orogeny**

**Orogeny**

UF: Mountain building  
Orogenesis  
BT: Tectonics  
RT: Active margins  
Epeirogeny  
Geosynclines  
Mountains  
Plate tectonics  
Rifting

**Orthoclase**

BT: Feldspars

**Orthogonals**

RT: Caustics  
Wave refraction diagrams

**Orthophosphate**

BT: Phosphates

**Oscillations**

NT: Forced oscillations  
Southern oscillation  
Tidal oscillations  
RT: Motion  
Perturbations  
Resonance  
Temporal variations  
Vibration

Oscillatory currents

USE: **Oscillatory flow**

**Oscillatory flow**

UF: Oscillatory currents  
RT: Bed forms  
Fluid flow  
Tidal currents  
Unidirectional flow

**Oscillatory waves**

BT: Water waves  
NT: Progressive waves  
Standing waves

**Osmium**

BT: Heavy metals  
RT: Osmium isotopes

**Osmium isotopes**

BT: Isotopes  
RT: Osmium

**Osmoregulation**

RT: Amphihaline species  
Euryhalinity  
Ion accumulation  
Ion transport  
Ions  
Osmosis  
Osmotic adaptations  
Osmotic pressure  
Salinity tolerance

**Osmosis**

BT: Separation processes  
NT: Reverse osmosis  
RT: Adsorption  
Dialysis  
Diffusion  
Mass transfer  
Molecular diffusion  
Osmoregulation  
Osmotic adaptations  
Osmotic pressure  
Permeability

**Osmotic adaptations**

BT: Adaptations  
RT: Amphihaline species  
Euryhalinity  
Osmoregulation  
Osmosis  
Osmotic pressure

**Osmotic pressure**

SN: Before 1982 search  
OSMOSIS  
UF: Pressure (osmotic)  
BT: Pressure  
RT: Osmoregulation  
Osmosis  
Osmotic adaptations  
Salinity power

**Osteology**

BT: Vertebrate zoology  
RT: Anatomy  
Bones  
Skeleton

Osteonecrosis

USE: **Bone necrosis**

Ostreaculture

USE: **Oyster culture**

**OTEC**

UF: Ocean thermal energy conversion  
Thalassothermal power  
BT: Thermal power  
RT: Artificial upwelling  
OTEC plants

**OTEC plants**

BT: Power plants  
RT: Heat exchangers  
OTEC  
Process plants

**Otolith reading**

BT: Age determination  
RT: Otoliths

**Otoliths**

RT: Bones  
Endoskeleton  
Otolith reading  
Skull

**Otter boards**

RT: Codends  
Trawl nets  
Trawling

Otter trawlers

USE: **Trawlers**

Otter trawls (bottom)

USE: **Bottom trawls**

Otter trawls (midwater)

USE: **Midwater trawls**

**Outcrops**

RT: Mineral deposits  
Rocks

Outdoor recreation

USE: **Recreation**

**Outer continental shelf**

UF: OCS  
BT: Continental shelves

Outer mantle

USE: **Upper mantle**

**Outfalls**

SN: Before 1986 search also  
SEWAGE OUTFALLS  
UF: Ocean outfalls  
Sewage outfalls  
BT: Hydraulic structures  
RT: Buoyant jets  
Effluents  
Sewage  
Water pollution

**Outflow**

SN: Component of water budget  
NT: Overflow

River outflow  
RT: Inflow  
Outflow waters  
Water budget  
Water exchange

**Outflow waters**

BT: Water masses  
RT: Core layer method  
Outflow

Outreach

USE: **Extension activities**

Ova

USE: **Eggs**

Ovalbumin

USE: **Albumins**

**Ovariectomy**

BT: Organ removal  
RT: Castration  
Contraception

**Ovaries**

BT: Gonads  
RT: Fecundity  
Gonadosomatic index  
Oogenesis  
Ovulation  
Sterility

**Overcapacity**

SN: In simple terms too many vessels, or the capability to harvest more than is sustainable in the long-run given a desired or optimal level of resources.  
BT: Fishing capacity

**Overcrowding**

SN: Condition in which numerical densities of animals per unit area lead to disruptive and/or damaging physiological and behavioural effects  
RT: Competition  
Stocking density

**Overexploitation**

NT: Overfishing  
RT: Fishing capacity  
Rare resources

Overfalls

USE: **Spillways**

**Overfishing**

SN: Fishing more intensely than a desirable level  
UF: Fishing overexploitation  
BT: Commercial fishing  
Overexploitation  
RT: Depleted stocks  
Fishing capacity

Fishing down aquatic food webs  
Fishing mortality  
Species extinction  
Vulnerable marine ecosystems  
Yield

**Overflow**

BT: Outflow  
RT: Boluses  
Cascading

**Overtopping**

UF: Wave overtopping  
RT: Breakwaters  
Water waves

**Overturn**

UF: Convective overturn  
Overturning  
Turnover  
BT: Vertical water movement  
RT: Lake dynamics  
Mixing processes  
Renewal  
Water mixing

Overturning

USE: **Overturn**

**Overwash**

SN: That portion of the uprush that carries over the crest of a berm or of a structure  
RT: Water waves

**Overwintering**

UF: Overwintering sites  
RT: Migrations  
Migratory species  
Overwintering techniques  
Winter

Overwintering sites

USE: **Overwintering**

**Overwintering techniques**

SN: Aquaculture technique to reduce winter effects on ponds  
BT: Aquaculture techniques  
RT: Overwintering  
Winter  
Winterkill

**Oviparity**

UF: Oviparous  
RT: Eggs  
Ovoviviparity  
Sexual reproduction  
Viviparity

Oviparous

USE: **Oviparity**

**Oviposition**

RT: Eggs

Ovogenesis  
USE: **Oogenesis**

Ovoviparous  
USE: **Ovoviviparity**

**Ovoviviparity**  
UF: Ovoviparous  
RT: Eggs  
Oviparity  
Sexual reproduction

**Ovulation**  
RT: Eggs  
Oogenesis  
Ovaries  
Sexual maturity  
Sexual reproduction

Ownership  
USE: **Property rights**

**Oxbow lakes**  
BT: Lakes  
RT: River meanders  
Rivers

**Oxic conditions**  
UF: Aerobic conditions  
RT: Anoxic conditions  
Oxic sediments

**Oxic sediments**  
UF: Aerobic sediments  
BT: Sediments  
RT: Anoxic sediments  
Oxic conditions

**Oxidation**  
BT: Chemical reactions  
RT: Antioxidants  
Biogeochemical cycle  
Corrosion  
Cytochromes  
Detoxification  
Electrolysis  
Oxygen demand  
Oxygenation  
Redox potential  
Redox reactions

Oxidation-reduction potential  
USE: **Redox potential**

Oxidation-reduction reactions  
USE: **Redox reactions**

Oxidation lagoons  
USE: **Sewage ponds**

**Oxide minerals**  
BT: Minerals  
NT: Bauxite  
Birnessite  
Boehmite  
Brucite  
Cassiterite

Chromite  
Cristobalite  
Gibbsite  
Goethite  
Haematite  
Ilmenite  
Magnetite  
Pyrolusite  
Rutile  
Todorokite

**Oxides**  
BT: Oxygen compounds  
NT: Iron oxides  
Manganese oxides  
Nitrous oxide  
Sulphur oxides

**Oxidoreductases**  
SN: Before 1982 search  
ENZYMES  
BT: Enzymes  
RT: Redox potential  
Redox reactions

**Oxygen**  
BT: Atmospheric gases  
Nonmetals  
NT: Dissolved oxygen  
RT: Air  
Anoxia  
Anoxic sediments  
Biological uptake  
Deoxygenation  
Oxygen compounds  
Oxygen consumption  
Oxygen demand  
Oxygen depletion  
Oxygen isotopes  
Oxygen minimum layer  
Oxygen sections  
Oxygenation  
Ozone

**Oxygen compounds**  
BT: Chemical compounds  
NT: Oxides  
RT: Oxygen  
Water

**Oxygen consumption**  
SN: Consumption of oxygen by aquatic organisms, including consumption rate and measuring methods  
RT: Aerobic respiration  
Anoxic conditions  
Conversion factors  
Hypoxia  
Metabolism  
Oxygen  
Oxygen depletion  
Respirometers

Oxygen content  
USE: **Dissolved oxygen**

**Oxygen demand**  
UF: Total oxygen demand  
NT: Biochemical oxygen demand  
Chemical oxygen demand  
RT: Biological production  
Deoxygenation  
Metabolism  
Oxidation  
Oxygen  
Oxygenation  
Photosynthesis  
Respiration

**Oxygen depletion**  
SN: Depletion of dissolved oxygen by biological oxidation reduction process of organic matter or by mass development of phytoplankton  
BT: Depletion  
NT: Anoxia  
RT: Anoxic basins  
Anoxic conditions  
Anoxic sediments  
Degradation  
Deoxygenation  
Hypoxia  
Oxygen  
Oxygen consumption  
Redox potential  
Winterkill

**Oxygen isotope dating**  
BT: Radiometric dating  
RT: Oxygen isotopes

**Oxygen isotope ratio**  
RT: Oxygen isotope stratigraphy  
Oxygen isotopes  
Radiometric dating

**Oxygen isotope stratigraphy**  
BT: Stratigraphy  
RT: Oxygen isotope ratio  
Oxygen isotopes

**Oxygen isotopes**  
BT: Isotopes  
RT: Oxygen  
Oxygen isotope dating  
Oxygen isotope ratio  
Oxygen isotope stratigraphy

**Oxygen maximum layer**  
BT: Core layers (water)  
RT: Oxygen profiles

**Oxygen minimum layer**  
BT: Core layers (water)  
RT: Dissolved oxygen  
Oxygen  
Oxygen profiles  
Oxygen sections

Oxygen poisoning  
USE: **Hypoxia**



**Oxygen profiles**

SN: Vertical distribution of dissolved oxygen in water bodies  
 BT: Vertical profiles  
 RT: Dissolved oxygen  
 Oxygen maximum layer  
 Oxygen minimum layer  
 Oxygen sections

**Oxygen sections**

BT: Hydrographic sections  
 RT: Oxygen  
 Oxygen minimum layer  
 Oxygen profiles  
 Vertical distribution

**Oxygenation**

RT: Aeration  
 Biochemical oxygen demand  
 Deoxygenation  
 Ecosystem services  
 Oxidation  
 Oxygen  
 Oxygen demand  
 Water treatment

**Oyster beds**

USE: **Oyster reefs**

**Oyster culture**

UF: Ostreaculture  
 BT: Bivalve culture  
 NT: Pearl culture  
 RT: Cultch  
 Oyster fisheries  
 Oyster reefs  
 Spat  
 Tray culture

**Oyster fisheries**

BT: Mollusc fisheries  
 NT: Pearl fisheries  
 RT: Estuarine fisheries  
 Oyster culture  
 Oyster reefs

**Oyster reefs**

UF: Oyster beds  
 BT: Reefs  
 RT: Oyster culture  
 Oyster fisheries

**Ozonation**

SN: The sterilization of culture system water through the addition of ozone  
 BT: Sterilization  
 RT: Ozone

**Ozone**

BT: Atmospheric gases  
 RT: Earth atmosphere  
 Oxygen  
 Ozonation  
 Ultraviolet radiation

**P-waves**

UF: Compressional waves (seismic)  
 Primary waves  
 BT: Body waves  
 RT: Compressional wave velocities  
 S-waves

**Pack ice**

UF: Ice floes  
 BT: Floating ice  
 RT: Ice barriers  
 Ice canopy  
 Ice drift  
 Ice fields  
 Ice keels

**Packages**

USE: **Containers**

**Packaging fishery products**

USE: **Packing fishery products**

**Packaging materials**

USE: **Packing materials**

**Packing fishery products**

SN: Referring to methods, techniques and material for packing industrial fishery products  
 UF: Packaging fishery products  
 RT: Fishery industry  
 Fishery products  
 Packing materials  
 Processed fishery products

**Packing materials**

UF: Packaging materials  
 BT: Materials  
 RT: Packing fishery products

**Paddy fields**

USE: **Rice fields**

**Paedomorphism**

USE: **Neoteny**

**Paints**

BT: Coating materials  
 RT: Antioxidants  
 Chemical pollutants  
 Primers

**Pair seines**

USE: **Boat seines**

**Pair trawlers**

USE: **Trawlers**

**Pair trawling**

USE: **Trawling**

**Pair trawls (bottom)**

USE: **Bottom trawls**

**Pair trawls (midwater)**

USE: **Midwater trawls**

**Palaemonid fisheries**

USE: **Shrimp fisheries**

**Palaeo studies**

UF: Paleo studies  
 NT: Palaeoceanography  
 Palaeoclimatology  
 Palaeoecology  
 Palaeolimnology  
 Palaeontology  
 Palaeotopography

**Palaeobathymetry**

USE: **Palaeotopography**

**Palaeoceanography**

SN: Before 1986 search also PALAEOOCEANOGRAPHY  
 UF: Palaeoceanography  
 BT: Oceanography  
 Palaeo studies  
 RT: Fossil sea water  
 Palaeoenvironments  
 Palaeontology  
 Palaeosalinity  
 Palaeotemperature  
 Palaeotopography

**Palaeocene**

SN: Before 1982 search PALEOCENE EPOCH  
 BT: Palaeogene

**Palaeoclimate**

BT: Climate  
 RT: Climatic changes  
 Continental drift  
 Fossils  
 Ice ages  
 Ice cover  
 Interglacial periods  
 Palaeoclimatology  
 Palaeoenvironments

**Palaeoclimatology**

BT: Climatology  
 Palaeo studies  
 RT: Eolian dust  
 Geomorphology  
 Palaeoclimate  
 Palaeontology  
 Stratigraphy

**Palaeocurrents**

RT: Ice rafting  
 Ocean currents  
 Provenance

**Palaeoecology**

BT: Ecology  
 Palaeo studies  
 RT: Fossils  
 Land bridges  
 Palaeoenvironments

ASFA THESAURUS

- Palaeontology  
Stratigraphy
- Palaeoenvironments**  
BT: Environments  
RT: Palaeoceanography  
Palaeoclimate  
Palaeoecology  
Palaeontology  
Palaeosalinity  
Palaeotemperature
- Palaeogene**  
UF: Lower tertiary  
BT: Tertiary  
NT: Eocene  
Oligocene  
Palaeocene
- Palaeogeography**  
SN: The study of the ancient geography of the Earth's surface.  
BT: Geography
- Palaeolatitude**  
BT: Latitude  
RT: Palaeomagnetism  
Polar wandering
- Palaeolimnology**  
BT: Limnology  
Palaeo studies  
RT: Palaeontology
- Palaeomagnetism**  
BT: Geophysics  
Magnetism  
RT: Continental drift  
Geomagnetism  
Magnetic anomalies  
Magnetic reversals  
Magnetic susceptibility  
Palaeolatitude  
Plate tectonics  
Polar wandering  
Pole positions  
Remanent magnetization  
Seafloor spreading
- Palaeontology**  
UF: Paleontology  
BT: Palaeo studies  
NT: Micropalaeontology  
RT: Archaeology  
Biofacies  
Botany  
Fossils  
Geology  
Palaeoceanography  
Palaeoclimatology  
Palaeoecology  
Palaeoenvironments  
Palaeolimnology  
Palaeosalinity  
Palynology  
Sedimentology  
Stratigraphy
- Taxonomy  
Trace fossils  
Zoology
- Palaeoceanography  
USE: **Palaeoceanography**
- Palaeosalinity**  
BT: Salinity  
RT: Messinian  
Palaeoceanography  
Palaeoenvironments  
Palaeontology
- Palaeoshorelines**  
BT: Coastal landforms  
RT: Palaeotopography  
Sea level changes
- Palaeotemperature**  
BT: Water temperature  
RT: Climatic changes  
Palaeoceanography  
Palaeoenvironments
- Palaeotopography**  
UF: Palaeobathymetry  
BT: Bottom topography  
Palaeo studies  
RT: Palaeoceanography  
Palaeoshorelines
- Palaeozoic**  
SN: Before 1982 search  
PALEOZOIC ERA  
BT: Geological time  
NT: Cambrian  
Carboniferous  
Devonian  
Ordovician  
Permian  
Silurian  
RT: Phanerozoic
- Palagonite**  
BT: Volcanic rocks  
RT: Basalt-seawater interaction  
Glass  
Pillow lava
- Palatability**  
RT: Off flavour  
Taste  
Taste tests
- Palatability tests  
USE: **Taste tests**
- Paleo studies  
USE: **Palaeo studies**
- Paleontology  
USE: **Palaeontology**
- Palladium**  
BT: Heavy metals  
RT: Palladium isotopes
- Palladium isotopes**  
BT: Isotopes  
RT: Palladium
- Paludism  
USE: **Malaria**
- Palygorskite**  
BT: Clay minerals
- Palynology**  
UF: Pollen analysis  
RT: Botany  
Fossil pollen  
Fossil spores  
Geology  
Palaeontology  
Pollen  
Spores  
Taxonomy
- Pancreas**  
BT: Digestive glands  
RT: Insulin
- Pandalid fisheries  
USE: **Shrimp fisheries**
- Paralytic shellfish poisoning**  
UF: Shellfish poisoning (paralytic)  
BT: Human diseases  
RT: Diarrhetic shellfish poisoning
- Parameterization**  
RT: Parameters
- Parameters**  
NT: Coriolis parameters  
Rossby parameter  
Wind wave parameters  
RT: Parameterization  
Properties
- Parametric methods**  
BT: Statistical analysis  
RT: Non-parametric methods
- Parasite attachment**  
UF: Attachment (parasites)  
Parasitic attachment  
BT: Biological attachment  
NT: Lamprey attachment  
RT: Parasites  
Parasitism
- Parasite control**  
BT: Control  
RT: Parasite resistance  
Parasites  
Parasitic diseases  
Parasitism  
Parasitology  
Pest control  
Protozoan diseases

**Parasite resistance**

UF: Resistance to parasites  
 BT: Biological resistance  
 RT: Parasite control  
 Parasites  
 Parasitism

**Parasites**

UF: Parasitofauna  
 NT: Ectoparasites  
 Endoparasites  
 RT: Biological vectors  
 Commensalism  
 Glochidia  
 Hosts  
 Noxious organisms  
 Parasite attachment  
 Parasite control  
 Parasite resistance  
 Parasitic diseases  
 Parasitism  
 Parasitology  
 Protozoan diseases  
 Symbiosis

Parasitic attachment  
 USE: **Parasite attachment**

**Parasitic castration**

SN: Failure of a host to reproduce due to partial or complete destruction of its gonads caused by parasitic activities  
 UF: Castration by parasites  
 BT: Castration  
 RT: Parasitic diseases

**Parasitic diseases**

UF: Parasitic infestation  
 BT: Infectious diseases  
 NT: Schistosomiasis  
 RT: Antihelminthic agents  
 Antiparasitic agents  
 Biological vectors  
 Boil disease  
 Fish diseases  
 Fungal diseases  
 Malaria  
 Parasite control  
 Parasites  
 Parasitic castration  
 Parasitism  
 Parasitology  
 Plant diseases  
 Protozoan diseases  
 Whirling disease

Parasitic infestation  
 USE: **Parasitic diseases**

**Parasitism**

BT: Interspecific relationships  
 NT: Ectoparasitism  
 Endoparasitism  
 RT: Glochidia  
 Host preferences  
 Hosts

Parasite attachment  
 Parasite control  
 Parasite resistance  
 Parasites  
 Parasitic diseases  
 Parasitology  
 Pathology  
 Prophylaxis  
 Protozoan diseases

Parasitofauna  
 USE: **Parasites**

**Parasitology**

BT: Ecology  
 RT: Bacteriology  
 Epidemiology  
 Microbiology  
 Mycology  
 Parasite control  
 Parasites  
 Parasitic diseases  
 Parasitism  
 Protozoan diseases

Parasympathetic nervous system  
 USE: **Autonomic nervous system**

Parathyroid  
 USE: **Thyroid**

Parent stocks  
 USE: **Brood stocks**

**Parental behaviour**

SN: Before 1982 search  
 REPRODUCTIVE  
 BEHAVIOUR  
 UF: Parental care  
 BT: Behaviour  
 RT: Reproductive behaviour

Parental care  
 USE: **Parental behaviour**

Parks  
 USE: **Protected areas**

Parrs  
 USE: **Juveniles**

**Parthenogenesis**

BT: Reproduction  
 RT: Clones  
 Gynogenesis

Partial tides  
 USE: **Tidal constituents**

**Partially-mixed estuaries**  
 BT: Estuaries

Participation  
 USE: **Participatory approach**

**Participatory approach**  
 SN: A means to assist individuals

and communities to analyze their situation, identify their priorities and decide which actions to undertake. As a result, they mobilize their resources and know-how to realize what they want and to achieve their objectives. As opposed to top-down development.  
 UF: Participation  
 BT: User participation  
 RT: Co-management

**Particle concentration**

SN: Use only for suspended particulate matter  
 RT: Gravimetric techniques  
 Light scattering  
 Particle scattering  
 Suspended particulate matter  
 Turbidity

**Particle counters**

BT: Counters  
 RT: Suspended particulate matter

**Particle distribution**

RT: Kurtosis  
 Particle scattering  
 Turbidity

**Particle motion**

UF: Grain motion  
 Sediment particle motion  
 Suspended particle motion  
 Wave particle motion  
 BT: Motion  
 NT: Particle settling  
 RT: Orbital velocity  
 Particulate flux  
 Resuspended sediments  
 Saltation  
 Sediment dynamics  
 Sediment movement  
 Sediment transport  
 Settling rate  
 Suspension  
 Traction  
 Wave drift velocity

**Particle scattering**

SN: Scattering of light in water by suspended particles  
 BT: Light scattering  
 RT: Particle concentration  
 Particle distribution  
 Particle size  
 Suspended particulate matter

**Particle settling**

BT: Particle motion  
 RT: Particulate flux  
 Settling rate  
 Stokes law  
 Winnowing

**Particle size**

BT: Size  
RT: Kurtosis  
Nanoparticles  
Particle scattering  
Turbidity

Particle velocity (waves)

USE: **Orbital velocity**

**Particulate flux**

SN: Vertical flux of particulates in water column  
RT: Particle motion  
Particle settling  
Sediment traps  
Settling rate  
Suspended particulate matter

Particulate matter

USE: **Suspended particulate matter**

Particulate matter (air)

USE: **Atmospheric particulates**

**Particulate organic carbon**

BT: Organic carbon  
Particulate organic matter

**Particulate organic matter**

BT: Organic matter  
Particulates  
NT: Particulate organic carbon  
Particulate organic nitrogen  
Particulate organic phosphorus

**Particulate organic nitrogen**

BT: Organic nitrogen  
Particulate organic matter

**Particulate organic phosphorus**

BT: Organic phosphorus  
Particulate organic matter

**Particulates**

NT: Atmospheric particulates  
Particulate organic matter  
Suspended particulate matter

Particulates (aquatic)

USE: **Suspended particulate matter**

Particulates (atmospheric)

USE: **Atmospheric particulates**

Partnerships

USE: **Joint ventures**

**Parturition**

UF: Birth  
BT: Sexual reproduction  
RT: Foetus  
Pregnancy

**Passenger ships**

UF: Ferries  
Liners (passengers)  
BT: Merchant ships

**Passive margins**

UF: Aseismic margins  
Divergent margins  
BT: Continental margins  
RT: Plate divergence

**Passive sonar**

BT: Sonar  
RT: Ambient noise  
Sonobuoys

**Patchiness**

UF: Spatial heterogeneity  
BT: Spatial variations  
RT: Distribution  
Phytoplankton  
Plankton  
Vegetation cover  
Zooplankton

**Patents**

SN: Patent of new equipment and apparatus  
RT: Documents

Pathogen resistance

USE: **Disease resistance**

**Pathogenic bacteria**

BT: Bacteria  
Pathogens  
RT: Bacterial diseases

Pathogenic species

USE: **Pathogens**

**Pathogens**

UF: Pathogenic species  
NT: Pathogenic bacteria  
RT: Bacterins  
Disease control  
Diseases  
Disinfection  
Microbial contamination

**Pathology**

UF: Animal pathology  
Fish pathology  
NT: Histopathology  
RT: Diseases  
Epidemics  
Parasitism  
Physiology  
Therapy  
Toxicity

**Pattern recognition**

RT: Image enhancement

**PCB**

SN: Before 1982 search also

**POLYCHLORINATED BIPHENYLS**

UF: Polychlorinated biphenyls  
BT: Aromatic hydrocarbons  
RT: Chemical pollutants  
Insecticides  
Toxicants

PCR

USE: **Polymerase chain reaction**

**Pearl culture**

BT: Oyster culture  
RT: Pearl fisheries  
Pearl oysters  
Pearls

**Pearl fisheries**

BT: Oyster fisheries  
RT: Fishing by diving  
Pearl culture  
Pearl oysters  
Pearls

**Pearl oysters**

RT: Pearl culture  
Pearl fisheries  
Pearls

**Pearls**

SN: Including their formation by natural or artificial biosynthetic processes  
BT: Animal products  
RT: Biosynthesis  
Pearl culture  
Pearl fisheries  
Pearl oysters

**Peat**

SN: Remains of bog and fen vegetation  
BT: Organic sediments  
RT: Humus  
Sapropels

**Pebbles**

BT: Clastics  
RT: Rudites  
Shingle

**Pecking order**

SN: Social hierarchy occurring in many animals that live together in groups  
BT: Dominance hierarchies  
RT: Aggressive behaviour

Pecten fisheries

USE: **Scallop fisheries**

**Peduncle disease**

UF: Cold water diseases  
BT: Fish diseases  
RT: Bacterial diseases

Pelage

USE: **Hair**

**Pelagic clay**

UF: Red clay

BT: Clays

RT: Pelagic sediments

Pelagic deposits

USE: **Pelagic sediments**

**Pelagic environment**

UF: Pelagic regions

BT: Aquatic environment

NT: Neritic province

Oceanic province

RT: Abyssal zone

Bathyal zone

Bathypelagic zone

Lentic environment

Marine environment

Pelagic sedimentation

**Pelagic fish**

SN: Fish that spend most of their life swimming in the water column with little contact with or dependency on the bottom.

BT: Fish

RT: Pelagic fisheries

**Pelagic fisheries**

BT: Marine fisheries

RT: Finfish fisheries

Krill fisheries

Longlining

Pelagic fish

Trawlers

Tuna fisheries

Pelagic regions

USE: **Pelagic environment**

**Pelagic sedimentation**

BT: Sedimentation

RT: Pelagic environment

Pelagic sediments

**Pelagic sediments**

UF: Pelagic deposits

BT: Sediments

RT: Carbonate sediments

Chemical sediments

Pelagic clay

Pelagic sedimentation

Radiolarite

Siliceous sediments

**Pellet feeds**

UF: Pelleted foods

BT: Feed

Pelleted foods

USE: **Pellet feeds**

Pen culture

USE: **Cage culture**

Penaeid shrimp fisheries

USE: **Shrimp fisheries**

**Penetration depth**

RT: Penetrometers

Sediment properties

Soil mechanics

**Penetrometers**

BT: Measuring devices

RT: Corers

Geological equipment

Penetration depth

Seafloor sampling

Sediment sampling

Peptide mass fingerprinting

USE: **Protein fingerprinting**

Peptide synthesis

USE: **Protein synthesis**

**Peptides**

BT: Proteins

NT: Polypeptides

RT: Amino acids

Peptization

USE: **Deflocculation**

**Peptones**

SN: Before 1982 search

PROTEINS

BT: Proteins

**Percoid fisheries**

SN: Exclude carangid fisheries

UF: Croaker fisheries

Grouper fisheries

Seabream fisheries

Snapper fisheries

BT: Finfish fisheries

RT: Carangid fisheries

Coastal fisheries

Reef fisheries

**Percolation**

BT: Fluid flow

RT: Ground water

Leaching

Porosity

Seepages

Voids

**Perforated structures**

BT: Structures

RT: Offshore structures

**Performance assessment**

BT: Evaluation

RT: Acceptability

Certification

Efficiency

Guidelines

Intercalibration

Intercomparison

Quality control

Reliability

Specifications

Testing

**Peridotite**

BT: Ultramafic rocks

RT: Kimberlites

**Periodic variations**

BT: Temporal variations

NT: Annual variations

Diurnal variations

Seasonal variations

RT: Cyclic loading

Long-term changes

Periodicity

**Periodicity**

UF: Frequency (time)

NT: Annual

Biennial

Daily

Hourly

Monthly

Seasonality

Weekly

RT: Frequency

Periodic variations

Peripheral nerves

USE: **Nerves**

**Peripheral nervous system**

UF: PNS

BT: Nervous system

NT: Nerves

RT: Sense organs

**Periphyton**

SN: Assemblage of organisms on submerged objects

BT: Aquatic communities

RT: Epiphytes

Peritoneum

USE: **Abdomen**

**Permafrost**

UF: Submarine permafrost

RT: Arctic zone

Cryosphere

Land ice

**Permanence**

RT: Fate

Persistence

Permanent plankton

USE: **Holoplankton**

**Permanent thermocline**

BT: Thermocline

RT: Upper ocean

**Permeability**

UF: Sediment permeability  
 BT: Physical properties  
 RT: Capillarity  
 Diffusion  
 Electrical resistivity  
 Grain size  
 Leaching  
 Osmosis  
 Porosity  
 Void ratio  
 Voids

**Permeases**

USE: **Enzymes**

**Permian**

SN: Before 1982 search  
 PERMIAN SYSTEM  
 BT: Palaeozoic

**Permits**

SN: Including statistics relating to fisheries licences and licence fees  
 BT: Licences  
 RT: Quota regulations  
 Season regulations

**Persistence**

NT: Pollutant persistence  
 RT: Fate  
 Permanence

**Personal bibliographies**

SN: Bibliographies of individual workers  
 BT: Bibliographies

**Personnel**

SN: Before 1982 search  
 SCIENTIFIC PERSONNEL  
 UF: Employees  
 Staff (personnel)  
 Workers  
 NT: Consultants  
 Contractors  
 Crew  
 Experts  
 Scientific personnel  
 RT: Careers  
 Human resources  
 Labour  
 Management  
 Organizations

**PERT**

UF: Programme evaluation  
 Project evaluation  
 BT: Operations research  
 RT: Critical path method  
 Management  
 Numerical analysis

**Perturbation method**

BT: Numerical analysis  
 RT: Perturbations

**Perturbations**

NT: Tidal perturbation  
 RT: Oscillations  
 Perturbation method  
 Steady state

**Pest control**

BT: Control  
 RT: Biological control  
 Chemical control  
 Disease control  
 Herbicide resistance  
 Infestation  
 Insecticide resistance  
 Parasite control  
 Pesticide resistance  
 Pesticides  
 Plant control  
 Repellents

**Pesticide residues**

SN: Any substance or mixture of substances in food for man or animals resulting from the use of a pesticide and includes any specified derivatives, such as degradation and conversion products, metabolites, reaction products, and impurities that are considered to be of toxicological significance  
 BT: Chemical pollutants  
 RT: Food  
 Pesticides  
 Veterinary drugs residues

**Pesticide resistance**

BT: Control resistance  
 NT: Herbicide resistance  
 Insecticide resistance  
 RT: Defence mechanisms  
 Herbicides  
 Insecticides  
 Pest control

**Pesticides**

SN: Different chlorinated hydrocarbon products  
 BT: Biocides  
 NT: Algicides  
 Antihelminthic agents  
 Antiparasitic agents  
 Bacteriocides  
 Fungicides  
 Herbicides  
 Ichthyocides  
 Insecticides  
 Molluscicides  
 RT: Chemical pollutants  
 Chlorinated hydrocarbons  
 DDT  
 Disinfectants  
 Hazardous materials  
 Infestation  
 Lethal limits  
 Pest control  
 Pesticide residues

**Repellents**

Toxicants

**Petrogenesis**

SN: Formation of rocks  
 RT: Petrology  
 Rocks

**Petrography**

USE: **Petrology**

**Petroleum**

UF: Mineral oils  
 BT: Fossil fuels  
 NT: Crude oil  
 Gas condensates  
 Petroleum residues  
 RT: Hydrocarbon analysis  
 Liquefied petroleum gas  
 Natural gas  
 Oil  
 Oil-gas interface  
 Oil-water interface  
 Oil and gas fields  
 Oil and gas industry  
 Oil wells  
 Organic sediments  
 Petroleum engineering  
 Petroleum geology  
 Petroleum hydrocarbons  
 Waxes

**Petroleum engineering**

BT: Engineering  
 RT: Chemical engineering  
 Offshore engineering  
 Petroleum

**Petroleum geology**

BT: Geology  
 RT: Geostatistics  
 Mud volcanoes  
 Oil and gas exploration  
 Oil reservoirs  
 Petroleum

**Petroleum hydrocarbon residues**

USE: **Petroleum residues**

**Petroleum hydrocarbons**

BT: Hydrocarbons  
 NT: Asphalt  
 Bitumens  
 Kerogen  
 Tar  
 Volatile hydrocarbons  
 RT: Petroleum

**Petroleum industry**

USE: **Oil and gas industry**

**Petroleum residues**

UF: Petroleum hydrocarbon residues  
 BT: Petroleum  
 RT: Asphalt  
 Bitumens

- Oil sands  
Oil shale  
Tar  
Tar balls
- Petrology**  
UF: Petrography  
Sedimentary petrography  
BT: Geology  
RT: Geochemistry  
Lithology  
Petrogenesis  
Rocks  
Sediments
- pH**  
UF: Hydrogen ion concentration  
BT: Chemical properties  
RT: Acid mine drainage  
Acidification  
Acidity  
Alkalinity  
Buffers  
Hydrogen  
pH effects  
pH sensors  
Water properties
- pH effects**  
BT: Environmental effects  
RT: Acidity  
Alkalinity  
pH
- pH sensors**  
BT: Sensors  
RT: pH
- Phagocytosis**  
BT: Defence mechanisms  
RT: Amoebocytes  
Cells  
Endoparasites  
Endoparasitism  
Granulomas  
Macrophages
- Phanerozoic**  
SN: Before 1982 search  
PHANEROZOIC EON  
BT: Geological time  
RT: Cenozoic  
Mesozoic  
Palaeozoic
- Pharmaceutical pollution**  
UF: Drug pollution  
BT: Pollution  
RT: Drugs  
Sewage  
Sewage disposal  
Sewage treatment  
Veterinary drugs  
Water pollution
- Pharmaceutical products  
USE: **Drugs**
- Pharmacodynamics  
USE: **Pharmacology**
- Pharmacology**  
UF: Pharmacodynamics  
RT: Bioactive compounds  
Biochemistry  
Drugs  
Medicine  
Microbiology  
Therapy  
Toxicology
- Phase changes**  
UF: Changes of state  
Phase transformations  
NT: Condensation  
Fluidization  
Freezing  
Melting  
Solidification  
Vaporization  
RT: Heat transfer  
Thermodynamics  
Transition temperatures
- Phase transformations  
USE: **Phase changes**
- Phase velocity**  
BT: Velocity  
RT: Group velocity  
Water waves  
Wave dispersion  
Wave velocity
- Phenology**  
RT: Behaviour  
Biological rhythms  
Breeding  
Climate  
Climatology  
Ecology  
Migrations  
Photoperiodicity  
Seasonal variations  
Temporal variations
- Phenols**  
BT: Aromatics  
RT: Chemical pollutants  
Industrial wastes  
Toxicants
- Phenomena (biological)  
USE: **Biological phenomena**
- Phenotypes**  
SN: Refers to the observable physical properties of an organism; these include the organism's appearance, development, and behaviour (e.g. biological trait = eye colour; Phenotype = blue eyed). An organism's phenotype is determined by its genotype, which is the set of genes the organism carries, as well as by environmental influences upon these genes during the organisms development. Usually referred to in papers which also mention genetics and genotypes. Phenotype can refer collectively to all the biological traits belonging to an organism  
RT: Biological traits  
Ecophene  
Environmental effects  
Genotypes  
Organism morphology  
Phenotypic variations  
Typology
- Phenotypic variations**  
UF: Variations (phenotypic)  
RT: Environmental effects  
Phenotypes
- Phenylalanine**  
BT: Amino acids
- Pheromones**  
BT: Hormones
- Phillipsite**  
BT: Zeolites
- Phonoreceptors  
USE: **Auditory organs**
- Phosphatase**  
BT: Enzymes
- Phosphate cycle  
USE: **Phosphorus cycle**
- Phosphate deposits**  
SN: Use only for deposits of economic value  
BT: Chemical sediments  
Subsurface deposits  
RT: Authigenic minerals  
Guano  
Phosphate rocks  
Phosphates  
Phosphorite nodules
- Phosphate minerals**  
BT: Minerals  
NT: Apatite  
Francolite  
Monazite  
RT: Phosphate rocks  
Phosphates  
Phosphorite nodules
- Phosphate rocks**  
BT: Rocks  
RT: Phosphate deposits  
Phosphate minerals  
Phosphates

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Phosphorite  
Sedimentary rocks

**Phosphates**

BT: Phosphorus compounds  
NT: ADP  
AMP  
ATP  
Calcium phosphates  
Iron phosphates  
Orthophosphate  
RT: Non-conservative properties  
Nutrients (mineral)  
Phosphate deposits  
Phosphate minerals  
Phosphate rocks  
Phosphatization  
Phosphoric acid  
Phosphorus cycle  
Salts

Phosphatic concretions  
USE: **Phosphorite nodules**

**Phosphatization**

RT: Phosphates

Phospholipids  
USE: **Complex lipids**

**Phosphorescence**

UF: Phosphorescent wheels  
BT: Luminescence  
RT: Biological properties  
Bioluminescence  
Chemiluminescence  
Fluorescence

Phosphorescent wheels  
USE: **Phosphorescence**

**Phosphoric acid**

SN: Before 1982 search also  
INORGANIC ACIDS  
BT: Inorganic acids  
RT: Phosphates

**Phosphorite**

RT: Authigenic minerals  
Phosphate rocks  
Phosphorite nodules

Phosphorite concretions  
USE: **Phosphorite nodules**

**Phosphorite nodules**

UF: Phosphatic concretions  
Phosphorite concretions  
BT: Nodules  
Seabed deposits  
RT: Phosphate deposits  
Phosphate minerals  
Phosphorite

**Phosphorus**

BT: Nonmetals  
NT: Organic phosphorus

RT: Phosphorus compounds  
Phosphorus cycle  
Phosphorus isotopes

**Phosphorus compounds**

BT: Chemical compounds  
NT: Phosphates  
RT: Chemical fertilizers  
Organic compounds  
Phosphorus  
Phosphorus cycle

**Phosphorus cycle**

UF: Phosphate cycle  
BT: Nutrient cycles  
RT: Phosphates  
Phosphorus  
Phosphorus compounds

**Phosphorus isotopes**

BT: Isotopes  
RT: Phosphorus

Photic environment  
USE: **Epipelagic zone**

**Photochemical reactions**

UF: Photoionization  
Photoreduction  
BT: Chemical reactions  
NT: Photolysis  
Photosynthesis  
RT: Photochemistry

**Photochemistry**

BT: Chemistry  
RT: Photochemical reactions  
Photolysis  
Photosynthesis

Photogenic organs  
USE: **Photophores**

**Photogrammetry**

UF: Photographic measurement  
BT: Measurement  
RT: Cartography  
Current measurement  
Photography  
Surveying underwater  
Wave measurement

**Photographic equipment**

BT: Equipment  
NT: Cameras  
RT: Photographs  
Photography  
Remote sensing equipment  
Surveying equipment

Photographic measurement  
USE: **Photogrammetry**

Photographic techniques  
USE: **Photography**

Photographs  
BT: Audiovisual materials

NT: Aerial photographs  
Underwater photographs  
RT: Photographic equipment  
Photography

**Photography**

UF: Photographic techniques  
BT: Imagery  
NT: Aerial photography  
Microphotography  
Stereophotography  
Underwater photography  
RT: Cameras  
Films  
Holography  
Optics  
Photogrammetry  
Photographic equipment  
Photographs  
Radiography

Photoionization  
USE: **Photochemical reactions**

**Photolysis**

BT: Photochemical reactions  
RT: Photochemistry

**Photometers**

UF: Hydrophotometers  
BT: Light measuring instruments  
NT: Spectrophotometers  
RT: Nephelometers  
Photometry  
Radiometers

**Photometry**

BT: Light measurement  
RT: Colorimetric techniques  
Light intensity  
Photometers  
Quanta meters  
Spectroscopic techniques

Photoperiod effects  
USE: **Light effects**

**Photoperiodicity**

UF: Photoperiodism  
RT: Biological rhythms  
Breeding  
Diapause  
Diurnal variations  
Ecology  
Light  
Light effects  
Light stimuli  
Migrations  
Phenology  
Photoperiods

Photoperiodism  
USE: **Photoperiodicity**

**Photoperiods**

SN: Before 1982 search  
PHOTOPERIODICITY



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- UF: Day length  
Light duration  
RT: Circadian rhythms  
Diurnal variations  
Ecophysiology  
Light effects  
Photoperiodicity
- Photophelein  
USE: **Luciferin**
- Photophores**  
UF: Luminescent organs  
Luminous organs  
Photogenic organs  
BT: Animal organs  
RT: Bioluminescence  
Light organs  
Luminous organisms
- Photopolymerization  
USE: **Polymerization**
- Photoreception**  
BT: Sense functions  
RT: Light stimuli  
Vision
- Photoreceptors**  
BT: Sense organs  
NT: Eyes  
RT: Light  
Vision
- Photoreduction  
USE: **Photochemical reactions**
- Photosynthesis**  
BT: Photochemical reactions  
NT: Carbon fixation  
RT: Biogeochemical cycle  
Biosynthesis  
Carbon dioxide  
Carotenoids  
Chemical reactions  
Chemosynthesis  
Compensation depth  
Leaves  
Light stimuli  
Oxygen demand  
Photochemistry  
Photosynthetic pigments  
Photosystem I  
Photosystem II  
Phytobenthos  
Phytoplankton  
Plant metabolism  
Plant nutrition  
Plant physiology  
Primary production  
Solar radiation  
Transpiration  
Xanthophylls
- Photosynthetic pigments**  
BT: Pigments  
NT: Chlorophylls
- Xanthophylls  
RT: Carotenoids  
Chloroplasts  
Photosynthesis
- Photosynthetic zone  
USE: **Euphotic zone**
- Photosystem I**  
RT: Photosynthesis  
Photosystem II
- Photosystem II**  
RT: Photosynthesis  
Photosystem I
- Phototaxis**  
BT: Taxis  
RT: Light  
Light effects  
Light penetration  
Light stimuli  
Nyctimeral rhythms  
Phototropism  
Solar radiation  
Vertical migrations
- Phototropism**  
UF: Thermophototropism  
BT: Tropism  
RT: Circadian rhythms  
Light  
Light effects  
Light penetration  
Light stimuli  
Nyctimeral rhythms  
Phototaxis  
Solar radiation  
Vertical migrations
- Phreatic water  
USE: **Ground water**
- Phthalate esters**  
UF: Phthalic acid esters  
BT: Esters  
RT: Chemical pollutants
- Phthalic acid esters  
USE: **Phthalate esters**
- Phycologists  
USE: **Algologists**
- Phycology  
USE: **Algae**
- Phyllosomae**  
BT: Crustacean larvae
- Phylogenetics**  
SN: The study of evolutionary relationships  
RT: Biological speciation  
DNA barcoding  
Evolution  
Phylogeny
- Taxonomy
- Phylogeny**  
BT: Biogeny  
RT: Biological speciation  
Bioselection  
Ontogeny  
Phylogenetics  
Taxonomy
- Physical limnology**  
SN: Before 1982 search  
LIMNOLOGY (PHYSICAL)  
UF: Limnology (physical)  
BT: Limnology  
RT: Hydrodynamics  
Lake dynamics  
Physical oceanography  
Physics  
Thermal stratification  
Water analysis  
Water circulation  
Water currents  
Water properties  
Water temperature  
Water waves
- Physical models  
USE: **Scale models**
- Physical oceanography**  
UF: Marine physics  
BT: Oceanography  
NT: Hydrography  
RT: Hydrodynamics  
Physical limnology  
Physics  
Thermal stratification  
Water analysis  
Water circulation  
Water currents  
Water properties  
Water temperature  
Water waves
- Physical properties**  
BT: Properties  
NT: Acoustic properties  
Anisotropy  
Buoyancy  
Density  
Electrical properties  
Geothermal properties  
Magnetic properties  
Mass  
Mechanical properties  
Optical properties  
Permeability  
Porosity  
Pressure  
Specific gravity  
Thermodynamic properties  
Turbidity  
Water hardness  
Weight  
RT: Chemical properties  
Physicochemical properties

Sediment properties  
 Surface properties  
 Water properties  
 Wave properties

**Physicochemical properties**  
 BT: Properties  
 RT: Biological properties  
 Chemical properties  
 Physical properties  
 Water properties

**Physics**  
 NT: Acoustics  
 Atmospheric physics  
 Biophysics  
 Mechanics  
 Nuclear physics  
 Optics  
 Thermodynamics  
 RT: Physical limnology  
 Physical oceanography

Physiochemistry  
 USE: **Biochemistry**

Physiographic features  
 USE: **Topographic features**

**Physiographic provinces**  
 RT: Bottom topography  
 Landforms  
 Topographic features

Physiography  
 USE: **Geomorphology**

Physiological adaptations  
 USE: **Acclimatization**

Physiological calcification  
 USE: **Calcification**

Physiological ecology  
 USE: **Ecophysiology**

Physiological markers  
 USE: **Biomarkers**

**Physiology**  
 BT: Biology  
 NT: Animal physiology  
 Diving physiology  
 Ecophysiology  
 Electrophysiology  
 Endocrinology  
 Human physiology  
 Neurophysiology  
 Plant physiology  
 RT: Anatomy  
 Biochemistry  
 Biomarkers  
 Biophysics  
 Cryobiology  
 Digestion  
 Hormones  
 Hunger

Metabolism  
 Nutrition  
 Pathology  
 Stable isotopes  
 Synergism

Physiology (animal)  
 USE: **Animal physiology**

Physiology (aquatic mammals)  
 USE: **Mammalian physiology**

Physiology (fish)  
 USE: **Fish physiology**

Physiology (plants)  
 USE: **Plant physiology**

**Phytoplankton**  
 UF: Benthic algae  
 Benthic flora  
 BT: Benthos  
 RT: Algology  
 Aquatic plants  
 Microorganisms  
 Photosynthesis  
 Primary production

Phytogeography  
 USE: **Biogeography**

**Phytohormones**  
 SN: Before 1982 search  
 HORMONES  
 UF: Cytokinins  
 Gibberellins  
 Plant hormones  
 BT: Hormones  
 RT: Aquatic plants  
 Auxins  
 Plant physiology

Phytology  
 USE: **Botany**

Phytophagous fishes  
 USE: **Herbivorous fish**

**Phytoplankton**  
 UF: Planktonic algae  
 BT: Microorganisms  
 Plankton  
 RT: Algal blooms  
 Algology  
 Aquatic plants  
 Blooms  
 Botany  
 Ecosystem services  
 Food organisms  
 Ocean colour  
 Patchiness  
 Photosynthesis  
 Phytoplankton culture  
 Primary production  
 Red tides

**Phytoplankton culture**  
 UF: Diatom culture  
 Single cell culture  
 BT: Algal culture  
 RT: Cell culture  
 Continuous culture  
 Cultured organisms  
 Mass culture  
 Phytoplankton  
 Plant culture

**Phytosociology**  
 UF: Plant sociology  
 BT: Ecology  
 RT: Aquatic plants  
 Biogeography  
 Botany

**Picoplankton**  
 BT: Plankton

**Piers**  
 BT: Coastal structures

**Piezoelectric transducers**  
 BT: Transducers  
 RT: Acoustic transducers  
 Hydrophones

Pig-fish culture  
 USE: **Agropisciculture**

Pig farms  
 USE: **Agropisciculture**

**Pigging**  
 RT: Cleaning  
 Pipeline pigs

**Pigments**  
 BT: Glycosides  
 NT: Chromatic pigments  
 Photosynthetic pigments  
 Respiratory pigments  
 Visual pigments  
 RT: Discolouration  
 Dyes  
 Porphyrins

Pigs (pipeline)  
 USE: **Pipeline pigs**

Pilchard fisheries  
 USE: **Clupeoid fisheries**

**Pile driving**  
 RT: Bearing capacity  
 Piles

**Piled platforms**  
 UF: Jackets  
 BT: Fixed platforms  
 RT: Guyed towers

**Piles**

SN: Before 1986 search also  
PILES (FOUNDATIONS) and  
PILING  
UF: Piles (foundations)  
Piling  
BT: Foundations  
RT: Pile driving

Piles (foundations)

USE: **Piles**

Piling

USE: **Piles**

**Pillow lava**

BT: Lava  
RT: Palagonite  
Pillow structures

**Pillow structures**

BT: Sedimentary structures  
RT: Pillow lava

Pilot-scale culture

USE: **Experimental culture**

Pilot charts

USE: **Navigational charts**

Pineal gland

USE: **Pineal organ**

**Pineal organ**

UF: Pineal gland  
BT: Brain  
RT: Neurosecretion  
Neurosecretory system

**Pingers**

UF: Acoustic pingers  
BT: Sound generators  
RT: Electroacoustic devices  
Swallow floats

Pinnipeds

USE: **Aquatic mammals**

**Pipe buckling**

UF: Buckling (pipe)  
RT: Deformation  
Pipelines  
Pipes

**Pipe laying**

SN: Pipeline construction from  
barges  
BT: Pipeline construction  
RT: Pipelines  
Pipes

**Pipe stringers**

UF: Stringers  
RT: Pipelaying barges

**Pipelaying barges**

BT: Barges

RT: Pipe stringers

**Pipeline construction**

BT: Construction  
NT: Bottom tow  
Pipe laying  
RT: Anchoring  
Burying  
Connecting  
Pipeline crossing  
Pipelines  
Trenching  
Welding

**Pipeline crossing**

RT: Pipeline construction  
Pipelines

**Pipeline pigs**

UF: Pigs (pipeline)  
RT: Pigging

**Pipeline protection**

BT: Erosion control  
RT: Burying  
Pipelines  
Scour protection

Pipeline pumping stations

USE: **Pump stations**

**Pipelines**

UF: Submarine pipelines  
BT: Underwater structures  
NT: Flowlines  
Gathering lines  
RT: Gas terminals  
Pipe buckling  
Pipe laying  
Pipeline construction  
Pipeline crossing  
Pipeline protection  
Pump stations  
Trenches (pipelines)

**Pipes**

SN: Before 1986 search also PIPE  
UF: Line pipe  
NT: Riser pipes  
RT: Hoses  
Pipe buckling  
Pipe laying  
Tubing

**Piracy**

SN: Any robbery or other violent  
action, for private ends and  
without authorization by public  
authority, committed on the seas  
or in the air outside the normal  
jurisdiction of any state  
UF: Hijacking of ships  
Hijacking of yachts  
Maritime piracy  
RT: Hazards  
Health and safety  
High seas

Law of the sea

Security

Smuggling

Surveillance and enforcement

Territorial waters

Piscicides

USE: **Ichthyocides**

Pisciculture

USE: **Fish culture**

Piscine erythrocyte necrosis

USE: **Necroses**

**Piscivores**

UF: Piscivory  
BT: Heterotrophic organisms  
RT: Carnivores  
Herbivores  
Omnivores  
Predators  
Trophic levels

Piscivory

USE: **Piscivores**

**Piston corers**

SN: Before 1986 use also PISTON  
SAMPLERS  
UF: Piston samplers  
BT: Corers

Piston samplers

USE: **Piston corers**

Pitch (mineral)

USE: **Bitumens**

**Pitch response**

BT: Dynamic response  
RT: Buoy motion effects  
Pitching

**Pitching**

BT: Ship motion  
RT: Buoy motion effects  
Pitch response

**Pits**

UF: Gravel pits  
Open mines  
Sand pits  
RT: Quarries  
Strip mine lakes

Pitting

USE: **Corrosion**

**Pituitary gland**

UF: Hypophysis  
BT: Endocrine glands  
RT: Hypophysectomy

**Placenta**

RT: Foetus  
Pregnancy

Placer deposits  
USE: **Placers**

**Placer mining**  
BT: Mining  
RT: Mineral deposits  
Mineral exploration  
Placers

**Placers**  
UF: Placer deposits  
BT: Seabed deposits  
NT: Diamonds  
RT: Arenites  
Barite  
Cassiterite  
Chromite  
Garnet  
Gold  
Ilmenite  
Magnetite  
Monazite  
Placer mining  
Platinum  
Rutile  
Zircon

**Plagioclase**  
BT: Feldspars

Plaice fisheries  
USE: **Flatfish fisheries**

**Plains**  
BT: Landforms  
RT: Abyssal plains  
Flood plains

Planation surfaces  
USE: **Erosion surfaces**

**Planetary atmospheres**  
UF: Atmosphere (planetary)  
NT: Earth atmosphere  
RT: Atmosphere evolution

Planetary boundary layer  
USE: **Atmospheric boundary layer**

**Planetary vorticity**  
BT: Vorticity  
RT: Coriolis parameters  
Westward intensification

**Planetary waves**  
UF: Quasi-geostrophic waves  
Rossby waves  
Topographic planetary waves  
Waves (planetary)  
RT: Atmospheric motion  
Equatorial dynamics  
Fluid motion  
Jet stream  
Rossby parameter  
Water motion  
Water waves

**Planetary winds**  
UF: Zonal wind systems  
BT: Winds  
NT: Monsoons  
Trade winds  
Westerlies

Planktivores  
USE: **Plankton feeders**

**Plankton**  
BT: Aquatic communities  
NT: Cryoplankton  
Nannoplankton  
Phytoplankton  
Picoplankton  
Zooplankton  
RT: Luminous organisms  
Patchiness  
Plankton collecting devices  
Plankton equivalents  
Plankton feeders  
Plankton surveys  
Planktonology  
Seston

Plankton blooms  
USE: **Algal blooms**

**Plankton collecting devices**  
UF: Plankton nets  
BT: Collecting devices  
RT: Fishing nets  
Neuston  
Plankton  
Plankton surveys

Plankton entrainment  
USE: **Entrainment**

**Plankton equivalents**  
BT: Population factors  
RT: Biological production  
Biomass  
Plankton

**Plankton feeders**  
UF: Planktivores  
BT: Heterotrophic organisms  
RT: Carnivores  
Filter feeders  
Plankton

Plankton nets  
USE: **Plankton collecting devices**

Plankton studies  
USE: **Planktonology**

**Plankton surveys**  
BT: Biological surveys  
NT: Ichthyoplankton surveys  
RT: Plankton  
Plankton collecting devices  
Planktonology

Planktonic algae  
USE: **Phytoplankton**

**Planktonology**  
UF: Plankton studies  
BT: Ecology  
RT: Marine sciences  
Plankton  
Plankton surveys

**Planning**  
UF: Aquaculture planning  
Programming  
NT: Community planning  
Long-term planning  
National planning  
Regional planning  
Short-term planning  
Spatial planning  
RT: Co-management  
Framework  
Governance  
Guidelines  
Management  
Methodology  
Operations research  
Procedures  
Programmes  
Scientific advice

Planning (national)  
USE: **National planning**

Plant (equipment)  
USE: **Equipment**

**Plant control**  
SN: Chemical, biological and mechanical control of aquatic weeds and injurious algae  
UF: Aquatic weed control  
Vegetation control  
Weed cutting  
BT: Control  
RT: Biological control  
Chemical control  
Herbicides  
Herbivorous fish  
Pest control  
Plant diseases  
Plant utilization  
Vegetation cover  
Weeds

**Plant culture**  
SN: Applies only to culture of aquatic macrophytes  
UF: Aquatic plant culture  
BT: Cultures  
NT: Seaweed culture  
RT: Agropisciculture  
Aquatic plants  
Botany  
Phytoplankton culture

**Plant diseases**  
BT: Diseases

## ASFA THESAURUS

RT: Parasitic diseases  
Plant control  
Plant physiology

Plant fossils  
USE: **Vegetal fossils**

### **Plant growth**

BT: Growth  
RT: Gametophytes  
Growth rings  
Hydroponics  
Vegetation cover

Plant hormones  
USE: **Phytohormones**

### **Plant metabolism**

SN: Before 1982 search  
METABOLISM  
BT: Metabolism  
RT: Photosynthesis  
Plant physiology

### **Plant morphology**

SN: Before 1982 search  
MORPHOLOGY  
(ORGANISMS)  
UF: Morphology (plant)  
BT: Organism morphology  
RT: Plant organs  
Plant physiology

### **Plant nutrition**

BT: Nutrition  
RT: Autotrophy  
Hydroponics  
Photosynthesis  
Plant physiology

### **Plant organs**

UF: Organs (plant)  
BT: Body organs  
NT: Holdfasts  
Leaves  
Plant reproductive structures  
Rhizomes  
Roots  
Shoots  
Stems  
Thallus  
RT: Buds  
Plant morphology  
Plant physiology  
Tissues

### **Plant physiology**

SN: Before 1982 search  
PHYSIOLOGY  
UF: Physiology (plants)  
BT: Physiology  
RT: Aestivation  
Algology  
Auxins  
Botany  
Photosynthesis  
Phytohormones

Plant diseases  
Plant metabolism  
Plant morphology  
Plant nutrition  
Plant organs  
Stomata

### **Plant populations**

UF: Populations (plants)  
BT: Natural populations

### **Plant reproductive structures**

UF: Reproductive structures  
(plant)  
BT: Plant organs  
NT: Turions  
RT: Asexual reproduction  
Pollen  
Pollination  
Rhizomes  
Vegetative reproduction

Plant resources  
USE: **Botanical resources**

Plant sociology  
USE: **Phytosociology**

### **Plant strains**

SN: The term has no official ranking status in botany. It is a pre-cultivar stage of breeding. Before 2016 search STRAINS + FLORA  
UF: Strains (plants)  
BT: Botanical resources  
RT: Flora  
Selective breeding  
Taxa

### **Plant utilization**

UF: Aquatic plant utilization  
Aquatic weed utilization  
Water weed utilization  
BT: Utilization  
RT: Aquatic plants  
Plant control  
Shading

Plants  
USE: **Flora**

Plants (aquatic)  
USE: **Aquatic plants**

Plasma (blood)  
USE: **Blood**

Plasma membranes  
USE: **Cell membranes**

Plasmalemma  
USE: **Cell membranes**

### **Plasmids**

SN: Extrachromosomal, usually circular DNA molecules that are

self-replicating and transferable from one organism to another. They are found in a variety of bacterial, archaeal, fungal, algal, and plant species. They are used in genetic engineering as cloning vectors  
BT: Nucleic acids  
RT: Bacteria  
DNA  
Genetics  
Molecules

### **Plastic coatings**

BT: Coating materials  
RT: Epoxy resins  
Plastics

### **Plastic debris**

BT: Solid impurities  
RT: Litter  
Marine debris  
Micro-plastic pollution  
Plastics

### **Plastic flow**

RT: Deformation  
Plasticity  
Rheology

Plastic materials  
USE: **Plastics**

### **Plasticity**

RT: Compressibility  
Deformation  
Elasticity  
Plastic flow

### **Plastics**

UF: Plastic materials  
BT: Materials  
NT: Acrylics  
Glass-reinforced plastics  
RT: Plastic coatings  
Plastic debris  
Synthetic fibres

### **Plastids**

RT: Cytoplasm

### **Plate boundaries**

NT: Converging plate boundaries  
Diverging plate boundaries  
Transform plate boundaries  
RT: Active margins  
Boundaries  
Plate margins  
Plate tectonics  
Plates  
Submarine volcanoes  
Triple junctions  
Volcanism

### **Plate convergence**

BT: Convergence  
RT: Active margins

Converging plate boundaries  
Island arcs  
Oceanic trenches  
Plate divergence  
Plate motion  
Plate tectonics  
Subduction zones

**Plate divergence**

BT: Divergence  
RT: Crustal accretion  
Diverging plate boundaries  
Mantle plumes  
Median valleys  
Mid-ocean ridges  
Passive margins  
Plate convergence  
Plate motion  
Rift zones  
Rifting  
Spreading centres

**Plate margins**

UF: Margins (plate)  
RT: Active margins  
Plate boundaries  
Plates

**Plate motion**

RT: Plate convergence  
Plate divergence  
Plate tectonics  
Plates  
Rotation

**Plate tectonics**

UF: Global tectonics  
BT: Tectonics  
RT: Asthenosphere  
Benioff zone  
Continental drift  
Crustal adjustment  
Fracture zones  
Hot spots  
Lithosphere  
Mantle convection  
Mantle plumes  
Moho  
Obduction  
Orogeny  
Palaeomagnetism  
Plate boundaries  
Plate convergence  
Plate motion  
Plates  
Polar wandering  
Rotation  
Seafloor spreading  
Spreading centres  
Subduction  
Subduction zones  
Transform faults

**Plateaux**

BT: Landforms  
NT: Submarine plateaux

**Plates**

UF: Lithospheric plates  
Tectonic plates  
BT: Earth structure  
RT: Lithosphere  
Obduction  
Plate boundaries  
Plate margins  
Plate motion  
Plate tectonics  
Subduction  
Subduction zones  
Triple junctions

Platforms (geology)

RT: **Cratons**

Platforms (instrument)

USE: **Instrument platforms**

Platforms (offshore)

USE: **Offshore structures**

Platforms (work)

USE: **Work platforms**

**Platinum**

BT: Heavy metals  
Transition elements  
RT: Placers

Playa lakes

USE: **Playas**

**Playas**

SN: Use for continental or inland  
sabkhas  
UF: Playa lakes  
BT: Ephemeral lakes  
Sabkhas  
RT: Arid environments  
Lake deposits  
Salt deposits  
Salt lakes

**Pleistocene**

SN: Before 1982 search  
PLEISTOCENE EPOCH  
UF: Glacial epoch  
BT: Quaternary  
RT: Ice ages  
Interglacial periods  
Plio-pleistocene boundary

**Pleuston**

SN: Freefloating plants  
BT: Aquatic communities  
RT: Aquatic plants  
Weeds

**Plio-pleistocene boundary**

RT: Pleistocene  
Pliocene

**Pliocene**

SN: Before 1982 search  
PLIOCENE EPOCH

BT: Neogene  
RT: Plio-pleistocene boundary

**Ploidy**

UF: Ploidy level  
NT: Diploids  
Haploids  
Polyploids  
RT: Chromosomes  
Genetics  
Zygotes

Ploidy level

USE: **Ploidy**

**Plotting**

RT: Geographical coordinates  
Mapping

Ploughing trenches

USE: **Trenching**

**Ploughmarks**

UF: Iceberg scour marks  
BT: Bed forms  
RT: Glacial erosion  
Glacial features  
Iceberg scouring

**Ploughs**

UF: Plows  
RT: Trenching

Plows

USE: **Ploughs**

**Plumblin deflection**

BT: Deflection  
RT: Geodesy  
Gravity

**Plumes**

SN: Before 1982 search PLUMES  
(AQUATIC). Use of a more  
specific term is recommended  
UF: Plumes (aquatic)  
BT: Fluid flow  
NT: Chemical plumes  
Mantle plumes  
River plumes  
Thermal plumes  
RT: Buoyant jets  
Coastal fronts  
Turbulent entrainment

Plumes (aquatic)

USE: **Plumes**

Plumulae

USE: **Feathers**

**Plutonium**

BT: Actinides  
Transuranic elements  
RT: Plutonium isotopes  
Radioactivity

**Plutonium isotopes**

BT: Isotopes  
RT: Plutonium

**Plutons**

BT: Igneous rocks  
RT: Batholiths  
Igneous intrusions

**PMF**

USE: **Protein fingerprinting**

**PNS**

USE: **Peripheral nervous system**

**Pock marks**

BT: Bed forms  
RT: Gas turbation  
Microtopography

**Poikilothermic animals**

USE: **Poikilothermy**

**Poikilothermy**

UF: Cold blooded animals  
Poikilothermic animals  
BT: Biological properties  
RT: Body temperature  
Homoiothermy  
Thermoregulation

**Poincare waves**

USE: **Tidal waves**

**Point pollution**

USE: **Point source pollution**

**Point pollution sources**

USE: **Point source pollution**

**Point source pollution**

UF: Point pollution  
Point pollution sources  
Point sources  
BT: Pollution sources  
RT: Effluents  
Nonpoint pollution sources  
Pollution  
Runoff  
Wastes  
Water pollution

**Point sources**

USE: **Point source pollution**

**Poiseuille flow**

USE: **Laminar flow**

**Poison fishing**

USE: **Fish poisoning**

**Poison tolerance**

USE: **Toxicity tolerance**

**Poisoning**

USE: **Fish poisoning**

**Poisonous fish**

BT: Fish  
Poisonous organisms  
RT: Ciguatera  
Ciguatoxin  
Venom apparatus

**Poisonous organisms**

UF: Toxic organisms  
BT: Noxious organisms  
NT: Poisonous fish  
RT: Allergic reactions  
Biological poisons  
Red tides

**Poisons (biological)**

USE: **Biological poisons**

**Poisson's equation**

BT: Equations  
RT: Harmonic functions  
Laplace equation

**Poisson's ratio**

BT: Ratios  
RT: Compressive strength  
Elastic constants  
Elasticity  
Flexibility  
Strain  
Tensile strength

**Polar air masses**

BT: Air masses  
RT: Antarctic front  
Polar meteorology

**Polar convergences**

BT: Oceanic convergences  
NT: Antarctic convergence

**Polar environment**

USE: **Polar zones**

**Polar exploration**

BT: Exploration  
RT: Geographical exploration  
Navigation in ice  
Navigation under ice  
Polar zones

**Polar front jet stream**

USE: **Jet stream**

**Polar fronts**

SN: Use only for semi-permanent  
front separating air masses of  
tropical and polar origin  
UF: Atmospheric polar fronts  
BT: Atmospheric convergences  
Fronts  
NT: Antarctic front  
RT: Cyclones

**Polar meteorology**

BT: Meteorology  
RT: Antarctic front

Polar air masses  
Polar oceanography  
Polar zones

**Polar migration**

USE: **Polar wandering**

**Polar motion**

USE: **Polar wandering**

**Polar navigation**

USE: **Navigation in ice**

**Polar oceanography**

BT: Oceanography  
RT: Polar meteorology  
Polar waters  
Polar zones

**Polar wandering**

UF: Polar migration  
Polar motion  
RT: Continental drift  
Earth rotation  
Palaeolatitide  
Palaeomagnetism  
Plate tectonics  
Pole positions  
Rotation

**Polar waters**

UF: Antarctic waters  
Arctic waters  
RT: Polar oceanography  
Polar zones

**Polar zones**

UF: Polar environment  
BT: Climatic zones  
NT: Antarctic zone  
Arctic zone  
RT: Polar exploration  
Polar meteorology  
Polar oceanography  
Polar waters

**Polarisation**

USE: **Polarization**

**Polarization**

UF: Polarisation  
Polarizing  
RT: Electrolysis  
Electromagnetic radiation  
Light scattering  
Optical properties  
Orientation  
Radiative transfer

**Polarizing**

USE: **Polarization**

**Polarography**

BT: Analytical techniques  
RT: Electroanalysis  
Electrolysis  
Redox reactions  
Voltammetry

**Polders**

RT: Embankments  
Land reclamation  
Sea level

**Pole-line fishing**

BT: Line fishing  
RT: Angling

**Pole culture**

USE: **Off-bottom culture**

**Pole positions**

RT: Geomagnetic field  
Magnetic reversals  
Palaeomagnetism  
Polar wandering

**Pole tides**

BT: Tides  
RT: Chandler wobble  
Long-period tides  
Tidal constituents

**Poleward heat flux**

USE: **Heat transport**

**Policies**

SN: Use of a more specific term is recommended  
UF: Government policy  
Policy (government)  
NT: Fishery policy  
Food-chain approach  
International policy  
Navigation policy  
Ocean policy  
Poverty alleviation  
Water policy  
RT: Food insecurity  
Food security  
Governance  
Governments  
Legislation  
Political aspects  
Public sector  
Regulatory compliance  
Scientific advice

**Policy (government)**

USE: **Policies**

**Policy (international)**

USE: **International policy**

**Political aspects**

UF: Political constraints  
RT: Governments  
Legal aspects  
Policies  
Public sector

**Political constraints**

USE: **Political aspects**

**Pollack fisheries**

USE: **Gadoid fisheries**

**Pollen**

RT: Atmospheric particulates  
Fossil pollen  
Palynology  
Plant reproductive structures  
Pollination

**Pollen analysis**

USE: **Palynology**

**Pollination**

UF: Cross pollination  
Self pollination  
RT: Plant reproductive structures  
Pollen  
Sexual reproduction

**Pollutant detection**

USE: **Pollution detection**

**Pollutant identification**

BT: Identification  
RT: Pollutants  
Toxicity tests  
Water analysis

**Pollutant persistence**

BT: Persistence  
RT: Pollutants  
Pollution data  
Pollution effects

**Pollutants**

SN: Harmful substances of chemical, physical or biological origin  
UF: Contaminants (pollution)  
Polluting substances  
NT: Biological pollutants  
Chemical pollutants  
Radioactive pollutants  
Solid impurities  
RT: Body burden  
Flushing time  
Lethal limits  
Mortality causes  
Nanoparticles  
Pollutant identification  
Pollutant persistence  
Pollution  
Toxicology  
Veterinary drugs residues  
Wastes

**Polluting substances**

USE: **Pollutants**

**Pollution**

SN: Use of a more specific term is recommended  
UF: Contamination (pollutants)  
Environmental contamination  
Environmental pollution  
NT: Agricultural pollution  
Air pollution  
Chemical pollution

Faecal pollution  
Food contamination  
Industrial pollution  
Land-based pollution  
Micro-plastic pollution  
Microbial contamination  
Oil pollution  
Pharmaceutical pollution  
Radioactive contamination  
Sea-based pollution  
Sediment pollution  
Thermal pollution  
Water pollution  
RT: Ecological crisis  
Nanoparticles  
Nonpoint pollution sources  
Point source pollution  
Pollutants  
Pollution control  
Pollution convention  
Pollution data  
Pollution detection  
Pollution effects  
Pollution gradients  
Pollution legislation  
Pollution maps  
Pollution monitoring  
Pollution surveys  
Pollution tolerance  
Seepages

**Pollution abatement**

USE: **Pollution control**

**Pollution charts**

USE: **Pollution maps**

**Pollution control**

SN: Control of pollution in aquatic environment only  
UF: Pollution abatement  
Pollution prevention  
Water pollution control  
BT: Control  
NT: Containment  
RT: Bioremediation  
Environmental protection  
Industrial pollution  
Pollution  
Pollution convention  
Pollution legislation  
Water pollution treatment  
Water quality control

**Pollution control legislation**

USE: **Pollution legislation**

**Pollution convention**

UF: Pollution treaties  
BT: International agreements  
RT: Ocean dumping  
Pollution  
Pollution control  
Pollution legislation  
Pollution monitoring  
Regulatory compliance



**Pollution data**

BT: Data  
RT: Pollutant persistence  
Pollution  
Pollution dispersion  
Pollution monitoring  
Pollution surveys

**Pollution detection**

UF: Pollutant detection  
BT: Detection  
RT: Chemical analysis  
Industrial pollution  
Pollution  
Pollution legislation  
Pollution surveys  
Sediment analysis  
Water analysis

**Pollution dispersion**

RT: Pollution data  
Pollution monitoring  
Pollution surveys

**Pollution effects**

SN: Pollution effects on aquatic environment, organisms, fisheries and human health  
UF: Water pollution effects  
RT: Anoxic conditions  
Anthropogenic factors  
Bioaccumulation  
Biological uptake  
Carcinogenesis  
Environmental degradation  
Environmental impact  
Eutrophication  
Industrial pollution  
Lethal effects  
Man-induced effects  
Mortality causes  
Pollutant persistence  
Pollution  
Pollution gradients  
Pollution monitoring  
Pollution surveys  
Pollution tolerance  
Sublethal effects  
Toxicity

**Pollution gradients**

BT: Gradients  
RT: Pollution  
Pollution effects  
Pollution monitoring  
Pollution surveys

**Pollution indicators**

BT: Indicators  
RT: Pollution monitoring

**Pollution legislation**

UF: Pollution control legislation  
Pollution regulations  
BT: Environmental legislation  
RT: Industrial pollution  
Pollution

Pollution control  
Pollution convention  
Pollution detection  
Pollution monitoring

**Pollution maps**

SN: Before 1982 search  
POLLUTION CHARTS.  
Distributional charts of pollutants or polluted areas in aquatic environment  
UF: Pollution charts  
BT: Maps  
RT: Pollution  
Pollution monitoring  
Pollution surveys

Pollution measurements

USE: **Pollution monitoring**

**Pollution monitoring**

UF: Pollution measurements  
Pollution surveillance  
BT: Environmental monitoring  
RT: Coliforms  
Industrial pollution  
Pollution  
Pollution convention  
Pollution data  
Pollution dispersion  
Pollution effects  
Pollution gradients  
Pollution indicators  
Pollution legislation  
Pollution maps  
Pollution surveys

Pollution prevention

USE: **Pollution control**

Pollution regulations

USE: **Pollution legislation**

Pollution self-control

USE: **Self purification**

**Pollution sources**

SN: Refers to origin of the pollutant which can be point specific or non-point specific. Use of a more specific term(s) is recommended  
UF: Water pollution sources  
NT: Nonpoint pollution sources  
Point source pollution  
RT: Port operations  
Shipyards

Pollution surveillance

USE: **Pollution monitoring**

**Pollution surveys**

SN: Surveys of polluted areas of aquatic environment  
BT: Environmental surveys  
RT: Industrial pollution  
Pollution

Pollution data  
Pollution detection  
Pollution dispersion  
Pollution effects  
Pollution gradients  
Pollution maps  
Pollution monitoring

**Pollution tolerance**

BT: Tolerance  
RT: Bioaccumulation  
Industrial pollution  
Pollution  
Pollution effects  
Sublethal effects

Pollution treaties

USE: **Pollution convention**

**Polonium**

BT: Nonmetals  
RT: Polonium isotopes

**Polonium isotopes**

BT: Isotopes  
RT: Polonium

Polychlorinated biphenyls

USE: **PCB**

Polychlorinated dibenzodioxins

USE: **Dioxins**

Polychlorinated dibenzofurans

USE: **Furans**

Polychloropinene

USE: **Ichthyocides**

**Polyculture**

UF: Composite cultures  
Mixed species culture  
BT: Aquaculture techniques  
RT: Crab culture  
Fish culture  
Frog culture  
Intensive culture  
Monoculture  
Pond culture  
Prawn culture  
Shrimp culture

Polycyclic hydrocarbons

USE: **Aromatic hydrocarbons**

**Polyhalite**

BT: Sulphate minerals  
RT: Gypsum

**Polymerase chain reaction**

SN: In vitro method for producing large amounts of specific DNA or RNA fragments of defined length and sequence from small amounts of short oligonucleotide flanking sequences (primers)  
UF: PCR

BT: Genetic techniques  
RT: DNA  
DNA fingerprinting  
DNA replication  
Polymerization

**Polymerization**

UF: Copolymerization  
Photopolymerization  
BT: Chemical reactions  
RT: Depolymerization  
DNA  
Polymerase chain reaction  
Polymers  
RNA

**Polymers**

RT: Chemical compounds  
Polymerization

Polymetallic nodules

USE: **Ferromanganese nodules**

Polymetallic sulphide deposits

USE: **Sulphide deposits**

Polymorphism (biological)

USE: **Biopolymorphism**

**Polynyas**

UF: Ice clearings  
RT: Floating ice  
Ice canopy  
Leads

**Polypeptides**

BT: Peptides

**Polyploids**

UF: Polyploidy  
BT: Ploidy  
RT: Chromosomes  
Diploids  
Genetics  
Haploids

Polyploidy

USE: **Polyploids**

**Polyps**

SN: Cylindrical sedentary body form in Hydrozoa and Anthozoa  
RT: Budding  
Buds  
Coral reefs  
Tentacles

**Polysaccharides**

BT: Saccharides  
NT: Agarose  
Alginic acid  
Cellulose  
Mucopolysaccharides  
Starch  
RT: Agar  
Dietary fibre

**Polyspermy**

RT: Biological fertilization  
Sexual cells  
Sexual reproduction  
Sperm

**Polyunsaturated fatty acids**

BT: Fatty acids  
NT: Linoleic acid  
RT: Polyunsaturated hydrocarbons

**Polyunsaturated hydrocarbons**

BT: Unsaturated hydrocarbons  
NT: Squalene  
Terpenes  
RT: Polyunsaturated fatty acids

**Pond construction**

SN: Referring to design and hydrotechnical characteristics of pond construction mainly for aquaculture  
RT: Dams  
Grouting  
Hydraulic engineering  
Ponds

**Pond culture**

UF: Fish pond culture  
Static water culture  
BT: Aquaculture techniques  
RT: Agropisciculture  
Crab culture  
Crayfish culture  
Crustacean culture  
Extensive culture  
Fish culture  
Fish ponds  
Frog culture  
Polyculture  
Prawn culture  
Shrimp culture  
Thermal aquaculture  
Valliculture

Pond weeds

USE: **Freshwater weeds**

Ponderal index

USE: **Condition factor**

**Ponds**

UF: Pools  
BT: Inland waters  
NT: Cooling ponds  
Fish ponds  
Sewage ponds  
Temporary ponds  
RT: Dams  
Lentic environment  
Limnology  
Pond construction  
Water reservoirs  
Water resources

**Pontoons**

BT: Floating structures

RT: Barges  
Bridges

Pools

USE: **Ponds**

Popeye

USE: **Exophthalmia**

Population abundance (in number)

USE: **Population number**

Population abundance (in weight)

USE: **Biomass**

**Population characteristics**

UF: Population estimates  
Population parameters  
NT: Biomass  
Population density  
Population number  
Population structure  
RT: Natural populations  
Population dynamics  
Population factors  
Population functions  
Stock assessment

**Population control**

SN: Inhibitive action on populations by biological (introduction, exclusion or removal of organisms), chemical or physical means  
BT: Control  
NT: Culling  
RT: Biotic pressure  
Natural populations

**Population density**

UF: Density (population)  
Density dependent factor  
Stock density  
BT: Population characteristics  
RT: Biomass  
Biotic pressure  
Density dependence  
Population number  
Quantitative distribution  
Resource availability  
Stocking density

**Population dynamics**

SN: Studies of changes that take place during the life span of a population  
UF: Population studies  
RT: Growth curves  
Natural populations  
Population characteristics  
Population factors  
Population functions  
Population structure  
Virtual population analysis

Population estimates

USE: **Population characteristics**

**Population factors**

NT: Condition factor  
 Fish conversion factors  
 Gonadosomatic index  
 Length-weight relationships  
 Plankton equivalents  
 RT: Natural populations  
 Population characteristics  
 Population dynamics  
 Population functions  
 Population structure

**Population functions**

SN: Including dynamic parameters (rates)  
 NT: Growth  
 Mortality  
 Recruitment  
 RT: Density dependence  
 Natural populations  
 Population characteristics  
 Population dynamics  
 Population factors  
 Population structure

**Population genetics**

SN: Relative frequency of hereditary characters and population or populations of a given species  
 BT: Genetics  
 RT: Biological speciation  
 Biopolymorphism  
 Genetic distance  
 Genetic drift  
 Isolating mechanisms  
 Natural populations  
 Stock identification  
 Subpopulations  
 Sympatric populations  
 Unit stocks

**Population number**

UF: Population abundance (in number)  
 Population size (in number)  
 Standing crop (in number)  
 Standing stock (in number)  
 BT: Population characteristics  
 RT: Abundance  
 Biomass  
 Capture-recapture studies  
 Culling  
 Population density  
 Quantitative distribution  
 Resource availability  
 Stock assessment  
 Yield

Population parameters

USE: **Population characteristics**

Population pressure

USE: **Biotic pressure**

Population size (in number)

USE: **Population number**

Population size (in weight)

USE: **Biomass**

**Population structure**

SN: Composition by size, sex and age groups of a breeding population (exploited or unexploited)  
 BT: Population characteristics  
 NT: Age composition  
 Length frequency  
 Sex ratio  
 Size-at-age  
 Size-at-first-maturity  
 Size distribution  
 RT: Natural populations  
 Population dynamics  
 Population factors  
 Population functions  
 Recruitment  
 Stock assessment  
 Subpopulations

Population studies

USE: **Population dynamics**

Populations (animal)

USE: **Animal populations**

Populations (natural)

USE: **Natural populations**

Populations (plants)

USE: **Plant populations**

**Porcellanite**

BT: Siliceous rocks

**Pore pressure**

UF: Pore water pressure  
 BT: Pressure  
 RT: Fluidized sediment flow  
 Hydrostatic pressure  
 Pore water  
 Sediment properties  
 Shear strength  
 Water content  
 Wave-induced loading

**Pore water**

SN: Before 1983 search also INTERSTITIAL WATER  
 UF: Interstitial water  
 Pore water content  
 BT: Water  
 RT: Dewatering  
 Fluidized sediment flow  
 Hydrothermal solutions  
 Interstitial environment  
 Pore pressure  
 Pore water samplers  
 Water content

Pore water content

USE: **Pore water**

Pore water pressure

USE: **Pore pressure**

**Pore water samplers**

BT: Sediment samplers  
 RT: Pore water  
 Water samplers

**Porosity**

BT: Physical properties  
 RT: Capillarity  
 Compaction  
 Compressibility  
 Electrical resistivity  
 Grain size  
 Percolation  
 Permeability  
 Texture  
 Void ratio  
 Voids  
 Water content  
 Wet bulk density

**Porphyryns**

BT: Glycosides  
 RT: Chlorophylls  
 Pigments

**Port installations**

UF: Docks  
 Harbour installations  
 Harbour structures  
 Jetties  
 Quays  
 BT: Coastal structures  
 RT: Drydocks  
 Gas terminals  
 Harbours  
 Port operations

**Port operations**

RT: Berthing  
 Cargo handling  
 Dredging  
 Handling  
 Health and safety  
 Lifting  
 Marine transportation  
 Pollution sources  
 Port installations  
 Shipping

Ports

USE: **Harbours**

**Position fixing**

UF: Fixing position  
 Position fixing systems  
 NT: Inertial navigation  
 Radar navigation  
 Radio navigation  
 Satellite navigation  
 Sofar  
 RT: Geographical coordinates  
 Locating  
 Navigation  
 Navigational aids  
 Positioning systems

Position fixing systems

USE: **Position fixing**

Positioning

USE: **Positioning systems**

### Positioning systems

SN: Systems for keeping ships, mobile platforms etc. on station relative to a point on the seabed

UF: Positioning

NT: Dynamic positioning

Global positioning systems

RT: Acoustic beacons

Berthing

Position fixing

Ship mooring systems

Steering systems

### Post harvest losses

SN: The degradation in both quantity and quality of a food production from harvest to consumption. Quality losses include those that affect the nutrient/caloric composition, the acceptability, and the edibility of a given product.

NT: Fish spoilage

RT: By catch

Fish handling

Ice

Infestation

Processing fishery products

Storage conditions

Temperature effects

Transportation

Post larvae

USE: **Juveniles**

### Pot fishing

BT: Catching methods

RT: Cephalopod fisheries

Pots

Potable water

USE: **Drinking water**

### Potadromous migrations

BT: Migrations

RT: Anadromous migrations

Catadromous migrations

Freshwater fish

### Potash deposits

RT: Subsurface deposits

### Potassium

BT: Alkali metals

RT: Potassium compounds

Potassium isotopes

### Potassium-argon dating

BT: Radiometric dating

RT: Argon isotopes

Potassium isotopes

### Potassium compounds

BT: Alkali metal compounds

RT: Potassium

### Potassium isotopes

BT: Isotopes

RT: Potassium

Potassium-argon dating

### Potential density

SN: Use for potential density of seawater ( $\sigma\text{-O}$ )

BT: Water density

RT: Adiabatic processes

In situ density

Potential temperature

Salinity

Sigma-T

Vertical stability

### Potential energy

UF: Available potential energy

BT: Energy

NT: Dynamic height

RT: Froude number

Green energy

Kinetic energy

### Potential flow

UF: Irrotational flow

BT: Fluid flow

RT: Vorticity

### Potential resources

UF: Reserves

BT: Resources

RT: Living resources

Potential yield

Resource development

Unconventional resources

### Potential temperature

BT: Temperature

RT: Adiabatic processes

Air temperature

Bottom temperature

Oceanic trenches

Potential density

Vertical stability

Water temperature

### Potential vorticity

BT: Vorticity

RT: Baroclinic instability

Barotropic instability

### Potential yield

UF: Maximum sustainable yield

Sustainable yield

BT: Yield

RT: Potential resources

Unconventional resources

Potentialities

USE: **Resources**

Potentiometric titration

USE: **Titration**

### Pots

UF: Lobster pots

BT: Fishing gear

RT: Pot fishing

Trap nets

Pound nets

USE: **Trap nets**

### Poverty alleviation

SN: Programs, actions initiatives aimed at improving the quality of life for people living in poverty

BT: Policies

RT: Developed countries

Developing countries

Development projects

Economic benefits

Economics

Socioeconomic aspects

### Powdered products

BT: Processed fishery products

NT: Fish meal

RT: Byproducts

### Power cables

BT: Electric cables

### Power consumption

RT: Electric power sources

Electricity

### Power from the sea

BT: Energy resources

NT: Electromagnetic power

Salinity power

Thermal power

Tidal power

Wave power

RT: Current power

Geothermal power

Green energy

Non-living resources

Renewable resources

Wind farms

Wind power

Power plant entrainment

USE: **Entrainment**

Power plant impingement

USE: **Impingement**

### Power plants

UF: Electric power plants

Power stations

NT: Fossil fueled power plants

Hydroelectric power plants

Nuclear power plants

OTEC plants

RT: Cooling ponds

Cooling water

Decommissioning  
Electric power sources  
Turbines  
Waste heat

Power spectra  
USE: **Energy spectra**

Power stations  
USE: **Power plants**

Power supplies  
USE: **Electric power sources**

Power systems  
USE: **Electric power sources**

**Practical salinity scale**  
SN: World standard for salinity data  
BT: Salinity scales  
Standards

Prairie potholes  
USE: **Marshes**

**Prandtl number**  
RT: Dimensionless numbers  
Forced convection  
Heat transfer  
Momentum transfer  
Reynolds number

**Prawn culture**  
SN: Before 1982 search  
CRUSTACEAN CULTURE.  
Restricted to rearing of freshwater prawns  
BT: Crustacean culture  
RT: Freshwater aquaculture  
Polyculture  
Pond culture

Prawn fisheries  
USE: **Shrimp fisheries**

Prawn wastes  
USE: **Wastes**

Prebiotic food  
USE: **Prebiotics**

**Prebiotics**  
SN: Prebiotics are plant fibres that beneficially nourish the good bacteria already in the large bowel or colon. While probiotics introduce good bacteria into the gut, prebiotics act as a fertilizer for the good bacteria that's already there  
UF: Prebiotic food  
BT: Carbohydrates  
RT: Digestive system  
Microorganisms

**Precambrian**  
SN: Before 1982 search  
PRECAMBRIAN ERA  
UF: Archean  
Proterozoic  
BT: Geological time

Precautionary approach  
USE: **Precautionary principle**

**Precautionary principle**  
SN: A set of agreed cost-effective measures and actions, including future courses of action, which ensures prudent foresight, reduces or avoids risk to the resource, the environment, and the people, to the extent possible, taking explicitly into account existing uncertainties and the potential consequences of being wrong.  
UF: Precautionary approach  
BT: Risk management  
RT: Environment management  
Resource management  
Risks  
Scientific advice

Precipitation (atmospheric)  
USE: **Atmospheric precipitations**

Precipitation (chemistry)  
USE: **Chemical precipitation**

Precipitation (meteorology)  
USE: **Atmospheric precipitations**

Precision depth recorders  
USE: **Depth recorders**

Precision echosounders  
USE: **Echosounders**

Precision gyroscopes  
USE: **Gyroscopes**

Precision pressure recorders  
USE: **Pressure sensors**

**Predation**  
SN: Including predator/prey relationship  
UF: Prey  
BT: Interspecific relationships  
NT: Prey selection  
RT: Associated species  
Feeding behaviour  
Mortality causes  
Natural mortality  
Predator control  
Predator prey interactions  
Predators

**Predator control**  
BT: Control  
RT: Biological control

Predation  
Predators  
Prey selection

**Predator prey interactions**  
RT: Predation  
Predators

**Predators**  
BT: Heterotrophic organisms  
RT: Carnivores  
Competitors  
Piscivores  
Predation  
Predator control  
Predator prey interactions  
Prey selection  
Protective behaviour  
Secondary production

Predicting  
USE: **Prediction**

**Prediction**  
UF: Forecasting  
Forecasts  
Predicting  
Predictions  
NT: Climate prediction  
Current prediction  
Earthquake prediction  
Flood forecasting  
Ice forecasting  
Storm surge prediction  
Tidal prediction  
Tsunami prediction  
Wave predicting  
Weather forecasting  
RT: Approximation  
Critical path method  
Long-term changes  
Short-term changes  
Simulation  
Statistical analysis  
Yield predictions

Predictions  
USE: **Prediction**

Preferred temperature  
USE: **Temperature preferences**

**Pregnancy**  
UF: Gestation  
RT: Parturition  
Placenta  
Sexual reproduction  
Viviparity

Preservation (fishery products)  
USE: **Processing fishery products**

Preservation (organisms)  
USE: **Fixation**

**Preservatives**

BT: Agents  
Biocides  
RT: Anticoagulants  
Fixation

**Pressure**

BT: Physical properties  
NT: Atmospheric pressure  
Blood pressure  
Hydrostatic pressure  
Osmotic pressure  
Pore pressure  
Sound pressure  
Vapour pressure  
RT: Compression  
Loads (forces)  
Manometers  
Pressure measurement  
Weight

Pressure (atmospheric)  
USE: **Atmospheric pressure**

Pressure (osmotic)  
USE: **Osmotic pressure**

Pressure (populations)  
USE: **Biotic pressure**

Pressure (water)  
USE: **Hydrostatic pressure**

Pressure chambers  
USE: **Decompression chambers**

**Pressure effects**

SN: Hydrostatic influence upon  
behaviour of aquatic organisms  
UF: Pressure tolerance  
BT: Environmental effects  
NT: High pressure effects  
RT: Diving physiology  
Hydrostatic pressure  
Mechanoreceptors

**Pressure field**

BT: Fields  
RT: Atmospheric pressure  
Hydrostatic pressure  
Isobaric surfaces  
Pressure gradients

**Pressure gauges**

BT: Measuring devices  
Pressure sensors  
RT: Manometers  
Pressure measurement

**Pressure gradients**

RT: Hydrostatics  
Pressure field

**Pressure measurement**

BT: Measurement  
RT: Pressure  
Pressure gauges

**Pressure sensors**

UF: Precision pressure recorders  
Pressure transducers  
BT: Sensors  
NT: Pressure gauges  
RT: Tide gauges  
Transducers  
Wave measuring equipment

Pressure test facilities  
USE: **Pressure vessels**

Pressure tolerance  
USE: **Pressure effects**

Pressure transducers  
USE: **Pressure sensors**

**Pressure vessels**

UF: Pressure test facilities  
RT: High pressure effects

Pressure waves  
USE: **Elastic waves**

**Prestressed concrete**

BT: Concrete

Prey  
USE: **Predation**

**Prey selection**

BT: Predation  
RT: Competition  
Predator control  
Predators

Prices  
USE: **Costs**

**Pricing**

UF: Fish prices  
Market prices  
RT: Commercial legislation  
Cost analysis  
Costs  
Financing  
Globalization  
Market research  
Marketing  
Trade

Primary fishery products  
USE: **Fishery products**

**Primary production**

BT: Biological production  
RT: Algal blooms  
Biogeochemical cycle  
Compensation depth  
Eutrophication  
Light penetration  
Photosynthesis  
Phytobenthos  
Phytoplankton  
Secondary production

Primary sedimentary structures  
USE: **Sedimentary structures**

Primary waves  
USE: **P-waves**

**Primers**

BT: Coating materials  
RT: Paints

**Private sector**

SN: Part of a country's economic  
system that is run by individuals  
and companies, rather than the  
government  
RT: Commerce  
Economic models  
Investments  
Marketing

**Probability theory**

RT: Bayesian analysis  
Game theory  
Mathematical models  
Operations research  
Random processes  
Statistical analysis  
Statistical models  
Statistical sampling  
Stochastic processes  
Time series  
Uncertainty

Probes (instruments)  
USE: **Sensors**

Probes (sensors)  
USE: **Sensors**

**Probiotics**

SN: Live microbial feed  
supplements which improve the  
host's intestinal microbial  
balance  
BT: Microorganisms  
RT: Animal nutrition  
Aquaculture  
Digestive system  
Disease control  
Feed composition  
Feeding

**Procedures**

RT: Planning  
Tests

Proceedings  
USE: **Conferences**

**Process plants**

RT: Mineral processing  
Oil and gas industry  
Oil refineries  
OTEC plants

**Processed fishery products**

SN: Use of a more specific term is recommended. Before 1982 search FISHERY PRODUCTS

UF: Fish sausage  
BT: Fishery products  
NT: Canned products

Chilled products  
Cured products  
Dried products  
Fermented products  
Fish fillets  
Fish glue  
Fish leather  
Fish oils  
Fish silage  
Frozen products  
Krill products  
Minced products  
Powdered products  
Roes  
Seaweed products  
Stickwater

RT: Byproducts

Fish skin  
Packing fishery products  
Processing fishery products  
Seafood

**Processing fishery products**

SN: Methods and techniques of processing commercial species, mainly fish and shellfish

UF: Conservation (fishery products)  
Preservation (fishery products)

NT: Animal oil extraction

Canning  
Curing  
Drying  
Fish meal processing  
Seaweed processing

RT: Codex standards

Fish handling  
Fish utilization  
Fishery industry  
Food technology  
Food traceability  
Post harvest losses  
Processed fishery products  
Shrimp spoilage

**Product development**

UF: Development (products)  
New product development  
Product improvement

RT: Marketing

New products  
Production cost

Product improvement

USE: **Product development**

**Product labelling**

SN: Displaying of information about a product on its container, packaging, or the product itself

UF: Labelling (products)

RT: Fishery products  
Food traceability  
Health and safety  
Quality control  
Trade

Production (biological)

USE: **Biological production**

Production (industrial)

USE: **Industrial production**

Production (oil and gas)

USE: **Oil and gas production**

**Production cost**

UF: GER  
Gross energy requirement

BT: Costs

RT: Feasibility

Industrial production

Product development

Production management

**Production management**

UF: Market management

BT: Management

RT: Incentives

Industrial production

Production cost

Quality control

Subsidies

**Production platforms**

BT: Work platforms

RT: Drilling

Drilling equipment

Drilling platforms

Drilling rigs

Drilling vessels

Oil and gas production

Production rate

USE: **Biological production**

**Products**

UF: Goods

NT: Aquaculture products

Byproducts

Fishery products

Industrial products

New products

RT: Raw materials

Professionals

USE: **Experts**

**Profilers**

UF: Continuous profilers

Shear probes

BT: Instruments

NT: Bathythermographs

CTD profilers

Dropsonde

Free-fall profilers

STD profilers

Velocity profilers

RT: Oceanographic equipment  
Profiles

**Profiles**

NT: Horizontal profiles

Vertical profiles

RT: Contours

Gradients

Graphs

Profilers

Profiling

**Profiling**

SN: Use of a more specific term is recommended

NT: Seismic reflection profiling

Seismic refraction profiling

Sub-bottom profiling

Vertical profiling

RT: Profiles

Profiling current meters

USE: **Velocity profilers**

Profit

USE: **Profits**

**Profits**

SN: Financial benefit that is realized when the amount of revenue gained from a business activity exceeds the expenses, costs and taxes

UF: Profit

RT: Economic analysis

Economic benefits

Return on investment

**Progeny**

SN: New organisms produced by sexual reproduction

BT: Offspring

RT: Children

**Progradation**

UF: Coast accretion

RT: Beach accretion

Coastal morphology

Coasts

Deltas

Emergent shorelines

Eustatic changes

Regressions

Retrogradation

Salt marshes

Uplift

Programme evaluation

USE: **PERT**

**Programmes**

NT: Cruise programmes

Research programmes

RT: Planning

## ASFA THESAURUS

- Programming  
USE: **Planning**
- Progress reports**  
BT: Report literature  
RT: Annual reports
- Progressive waves**  
BT: Oscillatory waves
- Project evaluation  
USE: **PERT**
- Proliferation**  
SN: The reproduction or multiplication of similar forms, especially of cells and morbid cysts  
RT: Cell culture  
Cells  
Growth  
Tumours
- Proline**  
BT: Amino acids  
RT: Pyrrolidine
- Promontories  
USE: **Headlands**
- Promoters**  
SN: A region of DNA that initiates the transcription of a particular gene  
UF: Promoters (genetics)  
BT: Nucleic acids  
RT: DNA  
Genes
- Promoters (genetics)  
USE: **Promoters**
- Promoters (growth)  
USE: **Growth regulators**
- Propagation  
USE: **Reproduction**
- Propagation (water waves)  
USE: **Wave propagation**
- Propane**  
BT: Acyclic hydrocarbons
- Propellers**  
RT: Cavitation  
Propulsion systems  
Thrusters
- Properties**  
SN: Use of a more specific term is recommended  
NT: Biological properties  
Chemical properties  
Conservative properties  
Ice properties  
Non-conservative properties
- Organoleptic properties  
Physical properties  
Physicochemical properties  
Sediment properties  
Surface properties  
Water properties  
RT: Parameters
- Property rights**  
UF: Ownership  
Tenure rights  
BT: Rights  
RT: Individual transferable quotas  
Rental  
Riparian rights  
Water rights
- Prophylaxis**  
UF: Disease preventive treatment  
RT: Disease control  
Diseases  
Parasitism  
Therapy
- Proposed research  
USE: **Research proposals**
- Propulsion engines  
USE: **Propulsion systems**
- Propulsion systems**  
SN: Before 1982 search also PROPULSION ENGINES. For propulsion of aquatic organisms use LOCOMOTION  
UF: Marine propulsion  
Propulsion engines  
NT: Sails  
Thrusters  
RT: Diesel engines  
Manoeuvrability  
Motors  
Nuclear propulsion  
Propellers  
Ship technology  
Shipboard equipment  
Steering systems  
Turbines  
Underwater propulsion  
Vehicles
- Protactinium**  
BT: Actinides  
RT: Protactinium isotopes
- Protactinium isotopes**  
BT: Isotopes  
RT: Protactinium
- Protandry**  
RT: Hermaphroditism  
Self fertilization
- Protected areas**  
SN: An area set aside for the preservation and protection of highly important natural and cultural features and for the regulation of the scientific, educational and recreational use.  
Before 2008 search MARINE PARKS  
UF: Nature reserves  
Parks  
NT: Freshwater parks  
Marine parks
- Protected resources**  
BT: Resources  
RT: Freshwater parks  
Living resources  
Marine parks  
Natural resources  
Rare resources  
Rare species  
Resource conservation
- Protection**  
NT: Environmental protection  
Fishery protection  
Scour protection  
Seabed protection  
RT: Accident prevention
- Protection (coastal)  
USE: **Shore protection**
- Protection (human)  
USE: **Health and safety**
- Protection (security)  
USE: **Surveillance and enforcement**
- Protection vessels**  
UF: Fishery protection vessels  
RT: Defence craft  
Fishery protection  
Security  
Surface craft  
Surveillance and enforcement
- Protective behaviour**  
SN: Avoiding or hiding from predators  
BT: Behaviour  
RT: Allelochemicals  
Autotomy  
Burrowing organisms  
Camouflage  
Chemical defence  
Chromatic behaviour  
Defence mechanisms  
Mimicry  
Predators  
Schooling behaviour
- Protective clothing**  
RT: Diving equipment  
Safety devices
- Protective coatings  
USE: **Coating materials**



**Protein deficiency**

BT: Dietary deficiencies  
RT: Protein synthesis  
Proteins

**Protein denaturation**

UF: Denaturation (proteins)  
BT: Biochemical phenomena  
RT: Nucleic acids  
Protein synthesis  
Proteins

**Protein fingerprinting**

UF: Peptide mass fingerprinting  
PMF  
BT: Fingerprinting  
RT: Analytical techniques  
Electrophoresis  
Proteins

Protein metabolism

USE: **Protein synthesis**

Protein sequence analysis

USE: **Protein sequencing**

**Protein sequencing**

SN: A process that includes the determination of the Amino acid sequence of a protein (or peptide, oligopeptide or peptide fragment) and the information analysis of the sequence  
UF: Protein sequence analysis  
BT: Sequencing  
RT: Biochemistry  
DNA  
Genetics  
Nucleotide sequence  
Proteins  
RNA

**Protein synthesis**

UF: Peptide synthesis  
Protein metabolism  
BT: Biochemical phenomena  
RT: Amino acids  
Protein deficiency  
Protein denaturation  
Proteins  
Ribosomes  
RNA replication

Proteinase

USE: **Enzymes**

**Proteins**

BT: Organic compounds  
NT: Actin  
Albumins  
Collagen  
Globulins  
Glycoproteins  
Histones  
Lipoproteins  
Luciferin  
Metallothioneins

Mucins  
Myoglobins  
Myosin  
Peptides  
Peptones  
Single cell proteins

RT: Amino acids  
Cytochromes  
Enzymes  
Haemocyanins  
Insulin  
Nitrogen compounds  
Nucleic acids  
Nutritive value  
Organic constituents  
Protein deficiency  
Protein denaturation  
Protein fingerprinting  
Protein sequencing  
Protein synthesis  
Ribosomes  
RNA sequencing  
Sequencing  
Serological studies  
Serological taxonomy  
Yolk

Protozoic

USE: **Precambrian**

**Protists**

SN: The primitive organisms from which animals and plants arose  
UF: Protobionta  
RT: Evolution

Protobionta

USE: **Protists**

**Protocols**

SN: A system of rules that explain the correct conduct and procedures to be followed in formal situations. A plan for a scientific experiment or for medical treatment  
RT: Health and safety  
International agreements  
Research  
Standards

**Protogyny**

RT: Hermaphroditism

Protoplasm

USE: **Cytoplasm**

**Protoplasts**

RT: Cell membranes  
Cells  
Cytoplasm  
Nuclei

**Prototypes**

RT: Models  
Specifications

Protozoal diseases

USE: **Protozoan diseases**

Protozoal pesticides

USE: **Antiprotozoal agents**

**Protozoan diseases**

UF: Protozoal diseases  
BT: Infectious diseases  
RT: Antiprotozoal agents  
Biological control  
Biological vectors  
Fish diseases  
Immunization  
Malaria  
Parasite control  
Parasites  
Parasitic diseases  
Parasitism  
Parasitology

**Provenance**

UF: Sediment source region  
RT: Palaeocurrents  
Sedimentation  
Sediments

Proximal composition

USE: **Chemical composition**

**Psammon**

SN: The biota existing immediately below the upper layer of sand on beaches, existing in films of water in the interstices  
BT: Aquatic communities  
RT: Epipsammon  
Sand

**Pteropod ooze**

BT: Calcareous ooze  
RT: Aragonite  
Fossil pteropods

Public-private partnerships

USE: **Joint ventures**

**Public access**

BT: Access  
RT: Recreation

**Public health**

UF: Health  
Human health  
BT: Health and safety  
RT: Biosecurity  
Children  
Epidemics  
Food-chain approach  
Food contamination  
Food safety  
Food traceability  
Human diseases  
Human trafficking  
Hygiene  
Medicine

- Microbial contamination  
Quarantine regulations  
Radiation protection  
Water pollution treatment  
Water purification
- Public outreach  
USE: **Extension activities**
- Public sector**  
SN: The part of a country's economy that consists of state-owned institutions, including nationalized industries and services provided by local authorities  
RT: Governments  
Policies  
Political aspects
- Publications  
USE: **Documents**
- Publicity material**  
UF: Advertisements  
RT: Documents  
Lectures
- Pulp wastes**  
BT: Wastes  
NT: White water effluents  
RT: Bleaching wastes
- Pulsed lasers  
USE: **Lasers**
- Pumice**  
BT: Volcanic rocks
- Pump fishing**  
BT: Catching methods  
RT: Electric fishing  
Light fishing  
Pumping  
Pumps
- Pump stations**  
UF: Booster stations  
Pipeline pumping stations  
RT: Pipelines  
Pumps
- Pumping**  
RT: Pump fishing  
Pumps  
Slurries
- Pumps**  
UF: Air pumps  
BT: Machinery  
NT: Fish pumps  
Water pumps  
RT: Pump fishing  
Pump stations  
Pumping
- Pumps (water)
- USE: **Water pumps**
- Pupae**  
BT: Insect larvae
- Pups**  
BT: Juveniles
- Purchasers  
USE: **Consumers**
- Purchasing**  
NT: Buyback  
RT: Acquisition  
Consumers  
Costs
- Purification (water)  
USE: **Water purification**
- Purines**  
BT: Organic compounds
- Purse seiners  
USE: **Seiners**
- Purse seines**  
BT: Surrounding nets  
RT: Purse seining  
Seiners
- Purse seining**  
BT: Seining  
RT: Bait fishing  
Purse seines
- Pycnocline**  
UF: Density layer  
BT: Discontinuity layers  
RT: Density fronts  
Density gradients  
Density profiles  
Density stratification  
Isopycnics  
Mixed layer depth  
Thermocline  
Water density  
Water masses
- Pyloric caeca**  
BT: Alimentary organs  
RT: Digestive glands  
Intestines  
Stomach
- Pyranometers  
USE: **Actinometers**
- Pyrgometers  
USE: **Actinometers**
- Pyridines**  
BT: Azines
- Pyrimidines**  
BT: Azines
- Pyrite**  
BT: Sulphide minerals
- Pyroclastics  
USE: **Volcanic rocks**
- Pyrolusite**  
BT: Oxide minerals  
RT: Manganese minerals
- Pyrolysis**  
BT: Degradation  
RT: Biogeochemistry  
Dissociation  
Temperature effects
- Pyroxenes**  
BT: Silicate minerals  
NT: Augite  
RT: Alkali basalts  
Tholeiite
- Pyrrhotite**  
BT: Sulphide minerals
- Pyrrolidine**  
BT: Amines  
RT: Proline
- Quagmires  
USE: **Mires**
- Quahog fisheries  
USE: **Clam fisheries**
- Quality**  
UF: Grades  
RT: Acceptability  
Best practices  
Guidelines  
Quality assurance  
Quality control
- Quality analysis  
USE: **Quality assurance**
- Quality assurance**  
UF: Quality analysis  
Reliability assurance  
RT: Quality  
Quality control  
Storage life  
Tests  
Visual inspection
- Quality control**  
SN: Methods and procedures for testing and monitoring quality at acceptable levels  
UF: Fish freshness  
BT: Control  
NT: Food traceability  
HACCP  
Water quality control  
RT: Acceptance tests  
Bench marks  
Certification

## ASFA THESAURUS

- Commercial legislation  
Control charts  
Fish spoilage  
Food safety  
Inspection  
Performance assessment  
Product labelling  
Production management  
Quality  
Quality assurance  
RFID tags  
Shrimp spoilage  
Standards  
Storage effects  
Testing
- Quanta meters**  
BT: Light measuring instruments  
RT: Irradiance meters  
Photometry
- Quantitative distribution**  
BT: Distribution  
RT: Abundance  
Biological charts  
Biomass  
Geographical distribution  
Population density  
Population number  
Resource availability  
Spatial variations  
Temporal distribution
- Quarantine regulations**  
SN: Regulations for protecting public health  
BT: Legislation  
RT: Epidemics  
Public health  
Safety regulations
- Quarries**  
SN: Before 2016 search also PITS  
RT: Aggregates  
Granite  
Limestone  
Pits  
Rocks
- Quartz**  
BT: Silicate minerals  
RT: Tholeiite
- Quartzite**  
BT: Silicate minerals
- Quasi-geostrophic motion**  
BT: Geostrophic flow
- Quasi-geostrophic waves  
USE: **Planetary waves**
- Quaternary**  
SN: Before 1982 search also QUATERNARY PERIOD  
UF: Quaternary period  
BT: Cenozoic
- NT: Holocene  
Pleistocene  
RT: Sea level
- Quaternary period  
USE: **Quaternary**
- Quays  
USE: **Port installations**
- Quinolines**  
BT: Azines
- Quota regulations**  
UF: Catch limit  
Catch quota  
BT: Fishery regulations  
RT: Blue whale unit  
Catch statistics  
Individual transferable quotas  
Permits  
Total allowable catch
- Race  
USE: **Subpopulations**
- Raceway culture**  
UF: River culture  
Running water culture  
BT: Aquaculture techniques  
RT: Crustacean culture  
Fish culture  
Freshwater aquaculture  
Intensive culture  
Monoculture
- Racial studies**  
RT: Genetics  
Stock identification  
Subpopulations
- Rack culture  
USE: **Off-bottom culture**
- Radar**  
UF: Radar equipment  
Radar systems  
BT: Remote sensing equipment  
NT: Microwave radar  
RT: Lidar  
Navigational aids  
Radar altimetry  
Radar clutter  
Radar imagery  
Radar navigation  
Radio oceanography  
Sonar
- Radar altimeters**  
BT: Altimeters  
RT: Wave measuring equipment
- Radar altimetry**  
BT: Altimetry  
RT: Radar  
Radar imagery  
Radio oceanography
- Satellite altimetry  
Wave measurement
- Radar clutter**  
UF: Noise (radar echoes)  
NT: Surface clutter  
RT: Radar  
Radar imagery
- Radar equipment  
USE: **Radar**
- Radar imagery**  
UF: Radar methods (sensing)  
BT: Microwave imagery  
RT: Electromagnetic radiation  
Radar  
Radar altimetry  
Radar clutter  
Radio oceanography  
Scatterometers
- Radar methods (sensing)  
USE: **Radar imagery**
- Radar navigation**  
BT: Navigation  
Position fixing  
RT: Collision avoidance  
Radar  
Radio navigation
- Radar systems  
USE: **Radar**
- Radiance**  
SN: Flux of radiant energy in water  
RT: Emissivity  
Irradiance  
Light  
Light fields  
Optical properties  
Radiance meters  
Radiative transfer  
Solar radiation
- Radiance distribution  
USE: **Light fields**
- Radiance meters**  
BT: Light measuring instruments  
RT: Radiance
- Radiation  
USE: **Radiations**
- Radiation balance**  
SN: Net flux of solar and terrestrial radiation at water surface  
UF: Net radiation  
Radiation budget  
RT: Heat budget  
Heat exchange  
Solar radiation  
Terrestrial radiation

Radiation budget  
USE: **Radiation balance**

Radiation fog  
USE: **Fog**

**Radiation hazards**  
UF: Radioactive exposure  
BT: Hazards  
RT: Radiation leaks  
Radiation protection  
Radioactive contamination  
Radioactive wastes

**Radiation leaks**  
BT: Accidents  
RT: Radiation hazards  
Radioactive waste disposal

Radiation measuring equipment  
USE: **Radiometers**

**Radiation protection**  
UF: Radiological protection  
BT: Health and safety  
RT: Public health  
Radiation hazards  
Radioactive contamination  
Radioactive waste disposal  
Safety regulations

**Radiational tides**  
BT: Tides  
RT: Meteorological tides  
Solar radiation  
Tidal constituents

**Radiations**  
SN: Use of a more specific term is recommended  
UF: Radiation  
NT: Electromagnetic radiation  
Ionizing radiation  
Thermal radiation

**Radiative transfer**  
UF: Radiative transfer equation  
BT: Energy transfer  
RT: Electromagnetic radiation  
Heat transfer  
Irradiance  
Light fields  
Polarization  
Radiance  
Solar radiation  
Terrestrial radiation

Radiative transfer equation  
USE: **Radiative transfer**

**Radio**  
BT: Communication systems  
RT: Radio aids  
Radio buoys  
Television systems

**Radio aids**  
SN: Equipment used for position fixing in navigation  
RT: Radio  
Radio navigation

**Radio buoys**  
BT: Buoys  
RT: Communication systems  
Fishing buoys  
Radio

Radio frequency identification tags  
USE: **RFID tags**

**Radio navigation**  
BT: Navigation  
Position fixing  
NT: Decca  
Loran  
Omega  
RT: Radar navigation  
Radio aids

**Radio oceanography**  
BT: Oceanography  
RT: Radar  
Radar altimetry  
Radar imagery  
Remote sensing  
Satellite sensing

**Radio telemetry**  
BT: Telemetry

Radio tracking  
USE: **Tracking**

**Radio waves**  
BT: Electromagnetic radiation

**Radioactive aerosols**  
UF: Radioactive particulates  
BT: Aerosols  
RT: Fallout

**Radioactive contamination**  
UF: Contamination (radioactive)  
Radioactive pollution  
BT: Pollution  
RT: Body burden  
Dust  
Fallout  
Nuclear explosions  
Nuclear power plants  
Radiation hazards  
Radiation protection  
Radioactive pollutants  
Radioactive waste disposal  
Radioactive wastes  
Radioactivity  
Radiochemistry  
Radioecology  
Radioisotopes  
Radionuclide kinetics  
Toxicity  
Water pollution

Radioactive dating  
USE: **Radiometric dating**

Radioactive exposure  
USE: **Radiation hazards**

Radioactive fallout  
USE: **Fallout**

Radioactive isotopes  
USE: **Radioisotopes**

**Radioactive labelling**  
UF: Isotopic labelling  
Labelling (radioactive)  
Radioactive tagging  
RT: Radioactive tracers  
Radioactivity

**Radioactive materials**  
BT: Materials  
NT: Fission products  
RT: Radioactive wastes  
Radioisotopes

Radioactive particulates  
USE: **Radioactive aerosols**

**Radioactive pollutants**  
BT: Pollutants  
RT: Carcinogens  
Fallout  
Radioactive contamination  
Radioactive wastes  
Radioactivity  
Radioisotopes

Radioactive pollution  
USE: **Radioactive contamination**

Radioactive tagging  
USE: **Radioactive labelling**

**Radioactive tracers**  
BT: Tracers  
RT: Autoradiography  
Carbon 13  
Carbon 14  
Radioactive labelling  
Radioactivity  
Radioecology  
Radiography  
Radioisotopes

**Radioactive waste disposal**  
BT: Waste disposal  
RT: Radiation leaks  
Radiation protection  
Radioactive contamination  
Radioactive wastes

**Radioactive wastes**  
SN: Radioactive wastes in aquatic environment  
UF: Nuclear wastes  
BT: Hazardous materials

## ASFA THESAURUS

- Wastes  
 RT: Fallout  
 Nuclear power plants  
 Nuclear radiations  
 Radiation hazards  
 Radioactive contamination  
 Radioactive materials  
 Radioactive pollutants  
 Radioactive waste disposal  
 Radioactivity  
 Radioecology  
 Thermal pollution
- Radioactivity**  
 RT: Actinium  
 Fallout  
 Gamma spectroscopy  
 Geiger counters  
 Ionizing radiation  
 Nuclear energy  
 Nuclear physics  
 Nuclear radiations  
 Plutonium  
 Radioactive contamination  
 Radioactive labelling  
 Radioactive pollutants  
 Radioactive tracers  
 Radioactive wastes  
 Radiochemistry  
 Radioecology  
 Radiography  
 Radioisotopes  
 Radiometric dating  
 Radionuclide kinetics  
 Radium  
 Uranium
- Radiocarbon dating**  
 BT: Radiometric dating  
 RT: Carbon 13  
 Carbon 14
- Radiochemistry**  
 BT: Chemistry  
 RT: Irradiation  
 Nuclear radiations  
 Radioactive contamination  
 Radioactivity  
 Radioecology  
 Radioisotopes
- Radioecology**  
 SN: Use of a more specific term is recommended  
 BT: Ecology  
 RT: Radioactive contamination  
 Radioactive tracers  
 Radioactive wastes  
 Radioactivity  
 Radiochemistry  
 Radioisotopes
- Radiographic testing  
 USE: **Nondestructive testing**
- Radiography**  
 NT: Autoradiography
- Tomography  
 RT: Fluorescence microscopy  
 Irradiation  
 Photography  
 Radioactive tracers  
 Radioactivity  
 X-ray spectroscopy
- Radioisotope kinetics  
 USE: **Radionuclide kinetics**
- Radioisotopes**  
 UF: Radioactive isotopes  
 Radionuclides  
 BT: Isotopes  
 NT: Carbon 14  
 RT: Carbon 13  
 Europium  
 Nuclear physics  
 Radioactive contamination  
 Radioactive materials  
 Radioactive pollutants  
 Radioactive tracers  
 Radioactivity  
 Radiochemistry  
 Radioecology  
 Radiometric dating  
 Radionuclide kinetics  
 Stable isotopes
- Radiolarian ooze**  
 SN: Composed of skeletons of planktonic animals  
 BT: Siliceous ooze  
 RT: Fossil radiolaria  
 Radiolarite
- Radiolarite**  
 BT: Siliceous rocks  
 RT: Clastics  
 Pelagic sediments  
 Radiolarian ooze
- Radiological protection  
 USE: **Radiation protection**
- Radiometers**  
 UF: Radiation measuring equipment  
 BT: Measuring devices  
 Remote sensing equipment  
 NT: Actinometers  
 Infrared detectors  
 Microwave radiometers  
 RT: Electromagnetic radiation  
 Light measuring instruments  
 Multispectral scanners  
 Photometers  
 Sensors
- Radiometers (microwave)  
 USE: **Microwave imagery**
- Radiometric dating**  
 SN: Before 1982 search  
 RADIOACTIVE DATING  
 UF: Isotope dating
- Radioactive dating  
 BT: Geochronometry  
 NT: Oxygen isotope dating  
 Potassium-argon dating  
 Radiocarbon dating  
 Rubidium-strontium dating  
 Thorium 230-thorium 232 dating  
 Uranium-helium dating  
 RT: Absolute age  
 Geological time  
 Isotopes  
 Nuclear radiations  
 Oxygen isotope ratio  
 Radioactivity  
 Radioisotopes  
 Uranium 234-Uranium 238 ratio
- Radionuclide kinetics**  
 SN: For radionuclides in living organisms only  
 UF: Contamination (internal)  
 Radioisotope kinetics  
 Radionuclide metabolism  
 Radionuclide transfer (in organisms)  
 Radionuclide turnover (in organisms)  
 BT: Kinetics  
 RT: Biological half life  
 Body burden  
 Metabolism  
 Radioactive contamination  
 Radioactivity  
 Radioisotopes
- Radionuclide metabolism  
 USE: **Radionuclide kinetics**
- Radionuclide transfer (in organisms)  
 USE: **Radionuclide kinetics**
- Radionuclide turnover (in organisms)  
 USE: **Radionuclide kinetics**
- Radionuclides  
 USE: **Radioisotopes**
- Radiosondes**  
 UF: Dropwindsondes  
 Rawinsondes  
 RT: Air temperature  
 Atmospheric pressure  
 Balloons  
 Humidity  
 Meteorological instruments  
 Wind measuring equipment
- Radium**  
 BT: Alkaline earth metals  
 Heavy metals  
 RT: Radioactivity  
 Radium isotopes

**Radium isotopes**

BT: Isotopes  
RT: Radium

**Radon**

BT: Rare gases  
RT: Radon isotopes

**Radon isotopes**

BT: Isotopes  
RT: Radon

**Radulae**

SN: Before 1982 search MOUTH  
PARTS  
BT: Mouth parts  
RT: Alimentary organs  
Teeth

**Raft culture**

SN: Before 1982 search OFF-  
BOTTOM CULTURE  
BT: Aquaculture techniques  
RT: Cage culture  
Mollusc culture  
Off-bottom culture

**Rafting**

BT: Sediment transport  
NT: Biological rafting  
Ice rafting  
RT: Glacial deposits  
Ice drift

**Rafts**

USE: **Boats**

**Rafts (instrument carriers)**

USE: **Data buoys**

**Rafts (life)**

USE: **Lifeboats**

**Rail bridges**

USE: **Bridges**

**Rain**

UF: Rain water  
BT: Atmospheric precipitations  
NT: Acid rain  
RT: Droughts  
Hail  
Rain gauges  
Rainfall  
Rainy season  
Snow

**Rain drops**

USE: **Droplets**

**Rain gauges**

BT: Meteorological instruments  
RT: Rain  
Rainfall

**Rain water**

USE: **Rain**

**Rainfall**

SN: Amount of both rain and  
water equivalent of frozen  
precipitation  
RT: Climate  
Droughts  
Hail  
Hydrologic cycle  
Rain  
Rain gauges  
Runoff  
Snow  
Weather

**Rainy season**

UF: Wet season  
BT: Seasons  
RT: Dry season  
Monsoons  
Rain  
Tropical environment

**Raised beaches**

BT: Beaches  
RT: Emergent shorelines  
Sea level changes  
Strandlines  
Terraces  
Uplift

**Rakes**

USE: **Grappling gear**

**Ramets**

SN: Individuals in a group of new  
organisms produced by asexual  
reproduction  
BT: Genets

**Ranching**

SN: Use of the natural aquatic  
environment as free feeding  
grounds for culturing organisms  
UF: Ocean ranching  
RT: Stocking (organisms)  
Water rights

**Random processes**

RT: Probability theory  
Statistical analysis  
Stochastic processes

**Random sampling**

USE: **Statistical sampling**

**Range action**

USE: **Harbour oscillations**

**Rare earth elements**

USE: **Rare earths**

**Rare earths**

UF: Rare earth elements  
BT: Metals  
NT: Actinides  
Lanthanides

**RT: Gadolinium isotopes**

Transition elements

**Rare gases**

UF: Inert gases  
Noble gases  
BT: Chemical elements  
Gases  
NT: Argon  
Helium  
Krypton  
Neon  
Radon  
Xenon

**Rare resources**

BT: Resources  
RT: Living resources  
Natural resources  
Overexploitation  
Protected resources  
Rare species  
Resource conservation

**Rare species**

UF: Endangered organisms  
Endangered species  
Species rarity  
BT: Species  
RT: Aquatic animals  
Aquatic plants  
Habitat loss  
Nature conservation  
Protected resources  
Rare resources  
Species extinction  
Threatened species  
Vulnerable species

**Rates and taxes**

USE: **Taxes**

**Ratios**

NT: Bowen ratio  
Carbon-nitrogen ratio  
Carbon isotope ratio  
Conductivity ratio  
Mixing ratio  
Poisson's ratio  
Signal-to-noise ratio  
Void ratio  
RT: Albedo  
Coefficients  
Constants  
Dimensionless numbers  
Rossby number

**Raw materials**

BT: Materials  
RT: Natural resources  
Products

**Rawinsondes**

USE: **Radiosondes**

**Ray paths**

UF: Seismic ray path

Sound ray paths  
 RT: Seismic propagation  
 Seismic waves  
 Sound waves

**Rayleigh waves**  
 BT: Surface seismic waves

Rays fisheries  
 USE: **Shark fisheries**

Re-entry (deep-sea drilling)  
 USE: **Hole re-entry**

Reaction kinetics  
 USE: **Chemical kinetics**

Reactions (chemical)  
 USE: **Chemical reactions**

Reading lists  
 USE: **Bibliographies**

**Rearing**  
 UF: Artificial rearing  
     Experimental rearing  
     Laboratory rearing  
 RT: Aquaculture  
     Aquaculture techniques  
     Artificial feeding  
     Capture-based aquaculture  
     Culture tanks  
     Hatching  
     Larval development

Recent epoch  
 USE: **Holocene**

**Recent sediments**  
 UF: Holocene sediments  
 BT: Sediments

Receptor cells  
 USE: **Receptors**

**Receptors**  
 UF: Exteroceptors  
     Interoceptors  
     Receptor cells  
     Sensory receptors  
 BT: Cells  
 NT: Target cells  
     Thermoreceptors  
 RT: Neurons  
     Sense organs

**Recipes**  
 SN: A set of directions with a list of ingredients for making or preparing food for human consumption  
 UF: Recipes (cooking)  
 RT: Human food

Recipes (animal feed)  
 USE: **Feed composition**

Recipes (cooking)  
 USE: **Recipes**

**Recirculating systems**  
 UF: Closed recirculating systems  
     Recirculating water systems  
     Recirculation systems  
     Water circulating systems  
 BT: Aquaculture systems  
 RT: Aquaculture equipment  
     Biofilters  
     Culture tanks  
     Water circulation  
     Water filtration  
     Water pumps

Recirculating water systems  
 USE: **Recirculating systems**

Recirculation systems  
 USE: **Recirculating systems**

**Reclamation**  
 SN: Use of a more specific term is recommended  
 NT: Lake reclamation  
     Land reclamation  
     Water reclamation  
 RT: Conservation  
     Depletion

Reclamation (lakes)  
 USE: **Lake reclamation**

Reclamation (land)  
 USE: **Land reclamation**

Reclamation (water)  
 USE: **Water reclamation**

**Recombinants**  
 RT: Recombination

**Recombination**  
 RT: Recombinants

Recorders  
 USE: **Recording equipment**

**Recording equipment**  
 UF: Recorders  
     Recording instruments  
 BT: Equipment  
 NT: Depth recorders  
     Sound recorders  
     Wave recorders  
 RT: Data buoys  
     Data loggers  
     Electronic equipment  
     Measuring devices  
     Monitoring systems  
     Sensors

Recording instruments  
 USE: **Recording equipment**

**Records**  
 NT: Analog records  
     Digital records  
     Long-term records  
     Short-term records  
 RT: Audio recordings  
     Logbooks  
     Magnetic tape recordings  
     Videotape recordings

**Recovery**  
 SN: Recovery of materials and equipment including underwater vehicles  
 UF: Recovery of equipment  
 NT: Core recovery  
     Mooring recovery  
 RT: Deployment  
     Gear handling  
     Launching  
     Station keeping

Recovery of equipment  
 USE: **Recovery**

Recovery of wrecks  
 USE: **Salvaging**

**Recreation**  
 UF: Leisure activities  
     Outdoor recreation  
 NT: Bathing  
     Boating  
     Sport fishing  
     Surfing  
 RT: Public access  
     Recreational waters  
     River restoration  
     Tourism  
     White water river recreation

Recreational fishing  
 USE: **Sport fishing**

Recreational swimming  
 USE: **Bathing**

**Recreational waters**  
 RT: Beaches  
     Freshwater parks  
     Marinas  
     Marine parks  
     Recreation  
     Riparian rights  
     Water  
     Water bodies  
     Water use regulations

**Recruitment**  
 SN: Including animal recruitment, length, weight and age at first capture, number of recruits  
 UF: Recruitment rate  
 BT: Population functions  
 RT: Age at recruitment  
     Population structure  
     Spawning stock biomass

- Yield  
Yield-per-recruit
- Recruitment rate  
USE: **Recruitment**
- Red blood cells  
USE: **Erythrocytes**
- Red blood corpuscles  
USE: **Erythrocytes**
- Red boil disease  
USE: **Boil disease**
- Red clay  
USE: **Pelagic clay**
- Red crab fisheries  
USE: **Squat lobster fisheries**
- Red muscles  
USE: **Muscles**
- Red pest  
USE: **Vibriosis**
- Red tides**  
RT: Algal blooms  
Biological poisons  
Discoloured water  
Phytoplankton  
Poisonous organisms  
Toxicity
- Redds**  
SN: Spawning area of trout or salmon on the bottom of a lake or stream; usually a clear circular depression in gravel  
UF: Salmon nests  
RT: Nests  
Spawning grounds
- Redfish fisheries**  
UF: Rockfish fisheries  
Scorpionfish fisheries  
BT: Finfish fisheries
- Redmouth disease**  
UF: Enteric redmouth  
Hagermon redmouth  
RM  
BT: Fish diseases  
RT: Bacterial diseases
- Redox potential**  
UF: EH  
Oxidation-reduction potential  
BT: Chemical properties  
RT: Chemical reactions  
Oxidation  
Oxidoreductases  
Oxygen depletion  
Redox reactions  
Reduction
- Redox processes  
USE: **Redox reactions**
- Redox reactions**  
UF: Oxidation-reduction reactions  
Redox processes  
BT: Chemical reactions  
RT: Oxidation  
Oxidoreductases  
Polarography  
Redox potential  
Reduction
- Reduction**  
BT: Chemical reactions  
NT: Sulphate reduction  
RT: Redox potential  
Redox reactions
- Reduction division  
USE: **Meiosis**
- Reef fish**  
BT: Marine fish  
RT: Artificial reefs  
Coral reef conservation  
Coral reef restoration  
Coral reefs
- Reef fisheries**  
BT: Marine fisheries  
RT: Artificial reefs  
Coral reef conservation  
Coral reef restoration  
Coral reefs  
Percoid fisheries
- Reef formation**  
RT: Reefs  
Sedimentation
- Reefs**  
UF: Rocky reefs  
NT: Bioherms  
Coral reefs  
Oyster reefs  
RT: Artificial reefs  
Reef formation  
Shallow water  
Shoals
- Reefs (artificial)  
USE: **Artificial reefs**
- Reefs (coral)  
USE: **Coral reefs**
- Reefs (navigational hazard)  
USE: **Shoals**
- Reference levels**  
BT: Levels  
NT: Datum levels  
Level of no motion  
RT: Data reduction
- Refineries  
USE: **Oil refineries**
- Reflectance**  
UF: Reflectivity  
BT: Optical properties  
RT: Air-water interface  
Albedo  
Glitter  
Light reflection  
Ocean colour  
Reflected global radiation  
Surface roughness  
Wave effects
- Reflected global radiation**  
BT: Solar radiation  
RT: Air-water interface  
Reflectance
- Reflection**  
NT: Light reflection  
Seismic reflection  
Sound reflection  
Wave reflection  
RT: Absorption (physics)  
Albedo  
Reverberation  
Transmission  
Wave motion
- Reflection (light)  
USE: **Light reflection**
- Reflection (water waves)  
USE: **Wave reflection**
- Reflection loss  
USE: **Transmission loss**
- Reflectivity  
USE: **Reflectance**
- Refraction**  
NT: Light refraction  
Seismic refraction  
Sound refraction  
Wave refraction  
RT: Wave motion
- Refraction (light)  
USE: **Light refraction**
- Refraction (water waves)  
USE: **Wave refraction**
- Refraction loss  
USE: **Transmission loss**
- Refractive index**  
SN: Before 1982 search  
REFRACTIVITY  
UF: Refractivity  
BT: Optical properties  
RT: Electrical conductivity  
Light dispersion  
Light refraction



Light scattering  
Salinity  
Salinity measurement  
Water temperature

Refractivity  
USE: **Refractive index**

**Refrigeration**  
SN: Before 1982 search  
FREEZING  
RT: Chilled products  
Chilling storage  
Cold storage  
Freezing  
Frozen products  
Refrigerators  
Thawing

Refrigeration storage  
USE: **Cold storage**

**Refrigerators**  
RT: Cold storage  
Refrigeration

**Refuges**  
SN: Isolated localities, where organisms are free from natural or man-induced pressures  
UF: Refugia  
Wildlife refuges  
RT: Freshwater parks  
Marine parks  
Nature conservation  
Sanctuaries

Refugia  
USE: **Refuges**

Refuse  
USE: **Litter**

**Regeneration**  
SN: Regeneration processes of tissue, organs and appendices lost by injuries in natural or experimental conditions  
BT: Biological phenomena  
RT: Autotomy  
Body organs  
Degeneration  
Growth  
Organ removal

**Regional planning**  
BT: Planning  
RT: National planning  
Regions

**Regional variations**  
BT: Spatial variations  
RT: Annual variations  
Migrations  
Seasonal variations

**Regions**  
RT: Regional planning

**Regression analysis**  
BT: Statistical analysis  
RT: Correlation analysis  
Least squares method  
Scatter diagrams  
Variance analysis

**Regressions**  
UF: Marine regressions  
RT: Coasts  
Emergent shorelines  
Eustatic changes  
Glaciation  
Progradation  
Sea level changes  
Transgressions  
Uplift

**Regular waves**  
BT: Water waves  
RT: Wave period

Regulation compliance  
USE: **Regulatory compliance**

Regulations  
USE: **Legislation**

**Regulatory compliance**  
SN: Pertaining to a law, rule, or other order prescribed by authority, especially to regulate conduct. Before 2016 search  
REGULATION COMPLIANCE  
UF: Regulation compliance  
RT: Fishery regulations  
Law of the sea  
Legislation  
Policies  
Pollution convention  
Surveillance and enforcement

Rehabilitation  
USE: **Restoration**

**Reinforced concrete**  
BT: Concrete  
RT: Steel

Relative abundance  
USE: **Abundance**

**Relative density**  
SN: Use for specific gravity of sea water. Before 1984 search also  
SPECIFIC GRAVITY  
BT: Water density  
RT: Sea water  
Specific gravity  
Water properties

**Relative humidity**  
BT: Humidity  
RT: Specific humidity

**Relative vorticity**  
BT: Vorticity  
RT: Absolute vorticity  
Vertical shear

**Release mechanisms**  
NT: Acoustic release mechanisms

**Reliability**  
RT: Acceptability  
Accuracy  
Certification  
Evaluation  
Failures  
Performance assessment  
Risks

Reliability assurance  
USE: **Quality assurance**

**Relict lakes**  
BT: Lakes  
RT: Fossil sea water

Relict organisms  
USE: **Relict species**

**Relict sediments**  
BT: Sediments

**Relict shorelines**  
BT: Coasts

**Relict species**  
SN: A species that is the remainder of a formerly more widely distributed species  
UF: Relict organisms  
BT: Species  
RT: Ecological distribution  
Geographical distribution  
Living fossils

Relief forms  
USE: **Topographic features**

Remanent magnetism  
USE: **Remanent magnetization**

**Remanent magnetization**  
UF: Magnetic remanence  
Remanent magnetism  
Rock magnetism  
BT: Magnetic properties  
RT: Core orientation  
Geomagnetic field  
Palaeomagnetism

**Remote control**  
BT: Control  
RT: Acoustic command systems  
Automation  
Robots  
Untethered vehicles

Remote satellite sensing

USE: **Remote sensing**

**Remote sensing**

SN: Remote sensing of the environment from all locations, i.e. sea surface, space, etc. For sensing from space use

GEOSENSING

UF: Remote satellite sensing

Remote sensing techniques

NT: Geosensing

RT: Data acquisition

Echosounding

Electromagnetic radiation

Geostatistics

Imagery

Infrared detectors

Ocean colour

Radio oceanography

Remote sensing equipment

Spatial planning

Remote sensing (earth)

USE: **Geosensing**

**Remote sensing equipment**

UF: Image sensors

Remote sensors

BT: Equipment

NT: Radar

Radiometers

Sonar

RT: Electronic equipment

Laser bathymeters

Lidar

Multispectral scanners

Oceanographic equipment

Photographic equipment

Remote sensing

Scatterometers

Sensors

Sodar

Surveying equipment

Remote sensing techniques

USE: **Remote sensing**

Remote sensors

USE: **Remote sensing equipment**

Remotely operated vehicles

USE: **Unmanned vehicles**

**Removal**

NT: Organ removal

RT: Installation

Salvaging

**Renewable resources**

BT: Natural resources

RT: Food resources

Freshwater resources

Geothermal power

Green energy

Hydroelectric power

Living resources

Marine resources

Nonrenewable resources

Power from the sea

Solar power

Visual impact

Water resources

Wind farms

Wind power

**Renewal**

RT: Flushing time

Overturn

Residence time

Rent

USE: **Rental**

**Rental**

SN: Renting of land, water bodies or water resources for exploitation purposes

UF: Rent

Renting

RT: Leases

Property rights

Water rights

Renting

USE: **Rental**

Repair

USE: **Maintenance and repair**

**Repellents**

NT: Fish repellents

RT: Insecticides

Pest control

Pesticides

Toxicants

Replacing

USE: **Maintenance and repair**

**Replication**

SN: Specifically genetical or biochemical replication

BT: Biochemical phenomena

NT: DNA replication

RNA replication

Viral replication

**Report literature**

SN: Unpublished scientific and technical documents, in most cases describing the results of research and development projects. Use of a more specific term is recommended. Before 1982 search REPORTS

UF: Reports

NT: Annual reports

Data reports

Progress reports

RT: Case studies

Data collections

Documents

Reports

USE: **Report literature**

**Reproduction**

SN: Before 1982 search

REPRODUCTION (BIOLOGY)

UF: Propagation

Reproduction (biology)

Reproduction rate

NT: Alternate reproduction

Androgenesis

Asexual reproduction

Cell division

Parthenogenesis

Sexual reproduction

Vegetative reproduction

RT: Biogenesis

Reproductive behaviour

Reproductive cycle

Zygotes

Reproduction (biology)

USE: **Reproduction**

Reproduction rate

USE: **Reproduction**

**Reproductive behaviour**

BT: Behaviour

RT: Breeding

Courtship

Nesting

Parental behaviour

Reproduction

Sexual behaviour

Spawning

Spawning migrations

**Reproductive cycle**

SN: A period between hatching and the first spawning of a given generation

UF: Breeding cycle

RT: Breeding

Life cycle

Reproduction

Spawning

Reproductive fertilization

USE: **Biological fertilization**

Reproductive isolation

USE: **Sexual isolation**

Reproductive organs (animal)

USE: **Animal reproductive organs**

Reproductive structures (plant)

USE: **Plant reproductive structures**

Reproductive system

USE: **Animal reproductive organs**

**Reptile culture**

UF: Alligator culture  
Crocodile farming  
BT: Cultures  
NT: Turtle culture  
RT: Aquatic reptiles

Reptiles (aquatic)  
USE: **Aquatic reptiles**

Rescue  
USE: **Search and rescue**

**Research**

UF: Research and development  
Scientific research  
NT: Experimental research  
RT: Case studies  
Online instruction  
Protocols  
Research institutions  
Research programmes  
Research proposals  
Scientific laws  
Theories

Research (experimental)  
USE: **Experimental research**

Research and development  
USE: **Research**

**Research institutions**

UF: Institutions (research)  
BT: Organizations  
NT: Biological institutions  
Fishery institutions  
Geological institutions  
Limnological institutions  
Oceanographic institutions  
RT: Education establishments  
Laboratories  
Research  
Research programmes

**Research programmes**

BT: Programmes  
RT: Cruise programmes  
Fellowships  
Grants  
Research  
Research institutions  
Research proposals

**Research proposals**

SN: Before 1982 search  
PROPOSED RESEARCH  
UF: Proposed research  
RT: Research  
Research programmes

Research ships  
USE: **Research vessels**

**Research vessels**

SN: Vessels used for ceanographic and limnological exploration

UF: Research ships  
RT: Cruise programmes  
Hydrographic surveying  
Hydrographic surveys  
Multiship expeditions  
Surface craft  
Survey vessels  
Weather ships

Research workers  
USE: **Scientific personnel**

Researchers  
USE: **Scientific personnel**

Reserves  
USE: **Potential resources**

Reservoir dynamics  
USE: **Lake dynamics**

**Reservoir fisheries**  
BT: Inland fisheries  
RT: Lake fisheries  
Water reservoirs

Reservoirs (oil)  
USE: **Oil reservoirs**

Reservoirs (water)  
USE: **Water reservoirs**

**Residence time**

RT: Age  
Flushing time  
Renewal  
Veterinary drugs residues

Residual circulation  
USE: **Residual flow**

Residual currents  
USE: **Residual flow**

**Residual flow**

UF: Residual circulation  
Residual currents  
RT: Fluid motion  
Unidirectional flow  
Water currents

Resilience (ecosystem)  
USE: **Ecosystem resilience**

Resistance (biological)  
USE: **Biological resistance**

**Resistance mechanisms**  
RT: Biological resistance  
Defence mechanisms

Resistance to chemicals  
USE: **Control resistance**

Resistance to disease  
USE: **Disease resistance**

Resistance to drugs  
USE: **Drug resistance**

Resistance to parasites  
USE: **Parasite resistance**

Resistivity (electrical)  
USE: **Electrical resistivity**

**Resolution**

UF: Instrument resolutions  
Resolving power  
RT: Accuracy  
Errors

Resolving power  
USE: **Resolution**

**Resonance**

NT: Roll resonance  
Tidal resonance  
RT: Oscillations  
Resonant frequency  
Vibration

**Resonant frequency**

UF: Natural frequency  
BT: Frequency  
RT: Resonance  
Vibration

**Resonant wave interaction**

BT: Wave interactions  
RT: Internal waves  
Wave-wave interaction

**Resource availability**

BT: Availability  
RT: Development potential  
Exploitation  
Population density  
Population number  
Quantitative distribution  
Resource surveys  
Resources

**Resource conservation**

BT: Conservation  
RT: Environment management  
Fuel economy  
Natural resources  
Protected resources  
Rare resources  
Resource management

**Resource depletion**

BT: Depletion  
RT: Individual transferable quotas  
Resource management  
Resources

**Resource development**

SN: Economic development of living and non-living aquatic resources  
UF: Development (resources)  
NT: Aquaculture development

## ASFA THESAURUS

- Fishery development  
 RT: Development potential  
 Development projects  
 Exploitation  
 Fish leather  
 Potential resources  
 Resource management
- Resource exploitation  
 USE: **Exploitation**
- Resource exploration**  
 BT: Exploration  
 NT: Mineral exploration  
 Oil and gas exploration  
 RT: Geostatistics  
 Resource surveys  
 Resources
- Resource management**  
 BT: Management  
 NT: Fishery management  
 Land management  
 Water management  
 RT: Culling  
 Ecosystem approach  
 Environment management  
 Individual transferable quotas  
 Natural resources  
 Precautionary principle  
 Resource conservation  
 Resource depletion  
 Resource development  
 Spatial planning  
 Stewardship  
 Visual impact
- Resource surveys**  
 BT: Surveys  
 RT: Resource availability  
 Resource exploration
- Resources**  
 SN: Before 1982 search  
 NATURAL RESOURCES  
 UF: Economic resources  
 Means  
 Potentialities  
 NT: Financial resources  
 Human resources  
 Institutional resources  
 Natural resources  
 Non-living resources  
 Potential resources  
 Protected resources  
 Rare resources  
 RT: Resource availability  
 Resource depletion  
 Resource exploration
- Respiration**  
 UF: Respiration rate  
 Respiratory quotients  
 NT: Aerobic respiration  
 Anaerobic respiration  
 RT: Metabolism  
 Oxygen demand
- Respiratory organs  
 Respiratory pigments  
 Respiratory system  
 Stomata  
 Transpiration
- Respiration rate  
 USE: **Respiration**
- Respiratory organs**  
 UF: Accessory respiratory organs  
 BT: Animal organs  
 NT: Gills  
 Lungs  
 Trachea  
 RT: Respiration  
 Respiratory pigments  
 Respiratory system
- Respiratory pigments**  
 UF: Respiratory proteins  
 BT: Pigments  
 NT: Haemocyanins  
 Haemoglobins  
 RT: Respiration  
 Respiratory organs
- Respiratory proteins  
 USE: **Respiratory pigments**
- Respiratory quotients  
 USE: **Respiration**
- Respiratory system**  
 BT: Anatomical structures  
 RT: Respiration  
 Respiratory organs
- Respirometers**  
 BT: Measuring devices  
 RT: Aerobic respiration  
 Oxygen consumption
- Response (oceanic)  
 USE: **Oceanic response**
- Response analysis**  
 BT: Analysis  
 RT: Response time  
 Tidal analysis
- Response time**  
 RT: Atmospheric forcing  
 Oceanic response  
 Response analysis  
 Salinity
- Response traits  
 USE: **Biological traits**
- Responsible aquaculture  
 USE: **Sustainable aquaculture**
- Responsible fisheries  
 USE: **Sustainable fishing**
- Resting eggs**  
 UF: Winter eggs  
 BT: Eggs  
 RT: Resting stages
- Resting spores**  
 BT: Spores  
 RT: Resting stages
- Resting stages**  
 RT: Developmental stages  
 Dormancy  
 Environmental effects  
 Resting eggs  
 Resting spores  
 Sleep
- Restocking  
 USE: **Stocking (organisms)**
- Restoration**  
 UF: Rehabilitation  
 NT: Biomanipulation  
 Environmental restoration  
 RT: Deterioration  
 Maintenance and repair
- Restoration of mangroves  
 USE: **Mangrove restoration**
- Resuspended sediments**  
 UF: Sediments in suspension  
 Suspended sediments  
 BT: Sediments  
 Suspended particulate matter  
 RT: Particle motion  
 Resuspension  
 Sediment traps  
 Suspended load
- Resuspension**  
 BT: Suspension  
 RT: Resuspended sediments  
 Suspended load
- Retinas**  
 UF: Blind spot  
 Fovea  
 BT: Eyes  
 RT: Visual pigments
- Retrogradation**  
 RT: Coastal erosion  
 Coastal morphology  
 Coasts  
 Eustatic changes  
 Landslides  
 Progradation  
 Submerged shorelines  
 Submergence  
 Transgressions
- Return on investment**  
 SN: A performance measure used to evaluate the efficiency of an investment or to compare the

efficiency of a number of  
different investments  
UF: ROI  
RT: Economic analysis  
Investments  
Profits

**Reverberation**

UF: Sound reverberation  
BT: Underwater noise  
NT: Bottom reverberation  
RT: Backscatter  
Reflection  
Sound scattering

**Reverse osmosis**

BT: Osmosis  
RT: Desalination  
Wastewater treatment

Reversing thermometers  
USE: **Thermometers**

Review articles  
USE: **Literature reviews**

Reviews (literature)  
USE: **Literature reviews**

**Reynolds number**

RT: Dimensionless numbers  
Drag coefficient  
Froude number  
Laminar flow  
Prandtl number  
Turbulent flow

**Reynolds stresses**

UF: Eddy stresses  
Turbulent shear stresses  
BT: Stress (mechanics)  
RT: Bottom stress  
Eddy viscosity  
Momentum transfer  
Navier-Stokes equations  
Shear stress  
Turbulence  
Turbulent boundary layer  
Turbulent flow  
Wind stress

**RFID tags**

SN: Automatic identification  
technology which uses radio-  
frequency electromagnetic fields  
to identify objects carrying tags  
when they come close to a  
reader  
UF: Radio frequency  
identification tags  
BT: Tags  
RT: Food technology  
Food traceability  
Locating  
Quality control  
Tracking

**Rhenium**

BT: Heavy metals  
RT: Rhenium isotopes

**Rhenium isotopes**

BT: Isotopes  
RT: Rhenium

**Rheology**

BT: Mechanics  
RT: Deformation  
Non-Newtonian fluids  
Plastic flow  
Viscosity

**Rheotaxis**

BT: Taxis  
RT: Water currents

**Rheotropism**

BT: Tropism  
RT: Water currents

**Rhizomes**

BT: Plant organs  
RT: Plant reproductive structures  
Roots  
Stems  
Stomata  
Vegetative reproduction

**Rhodamine B-dye**

SN: Synthetic red or pink  
substance used as tracer in study  
of water currents, turbulence  
BT: Dyes  
RT: Lagrangian current  
measurement

**Rhodium**

BT: Heavy metals

**Rhodopsin**

USE: **Visual pigments**

**Rhyolites**

BT: **Volcanic rocks**

**Rhythms**

USE: **Cycles**

**Rhythms (biological)**

USE: **Biological rhythms**

**Ria coasts**

USE: **Submerged shorelines**

**Rias**

USE: **Drowned valleys**

**Riboflavin**

USE: **Vitamin B**

**Ribonucleic acid**

USE: **RNA**

**Ribose**

BT: Monosaccharides  
RT: Aldehydes  
Vitamin B

**Ribosomes**

UF: Microsomes  
RT: Cytoplasm  
Protein synthesis  
Proteins  
RNA

**Rice-cum-fish culture**

USE: **Rice field aquaculture**

**Rice-fish culture**

USE: **Rice field aquaculture**

**Rice field aquaculture**

SN: Before 1982 search  
AGROPISCICULTURE  
UF: Rice-cum-fish culture  
Rice-fish culture  
Rizipisciculture  
BT: Agropisciculture  
RT: Aquaculture techniques  
Crayfish culture  
Fish culture  
Freshwater aquaculture  
Rice fields

**Rice fields**

UF: Paddy fields  
RT: Rice field aquaculture

**Richardson number**

RT: Instability  
Shear flow  
Vertical shear

**Ridges**

BT: Landforms  
NT: Continental ridges  
Submarine ridges

**Rift systems**

USE: **Rift zones**

**Rift valleys**

BT: Valleys  
NT: Median valleys  
RT: Fault zones  
Faults  
Graben  
Rift zones  
Rifting

**Rift zones**

SN: Previously indexed as RIFTS  
UF: Rift systems  
Rifts  
RT: Diverging plate boundaries  
Fault zones  
Plate divergence  
Rift valleys  
Rifting

**Rifting**

UF: Taphrogeny  
 RT: Fault zones  
 Orogeny  
 Plate divergence  
 Rift valleys  
 Rift zones  
 Seafloor spreading  
 Tectonics

Rifts

USE: **Rift zones**

**Rigging**

RT: Deck equipment  
 Sailing ships

**Righting**

BT: Ship motion  
 RT: Capsizing  
 Ship stability

**Rights**

SN: Use of a more specific term is recommended  
 NT: Exclusive rights  
 Exploration rights  
 Fishing rights  
 Property rights  
 Riparian rights  
 Water rights  
 RT: Jurisdiction  
 Legal aspects  
 Legislation

Rigidity

USE: **Flexibility**

Rigidity modulus

USE: **Shear modulus**

Rigs

USE: **Drilling rigs**

**Rip channels**

BT: Beach features  
 Channels  
 RT: Rip currents

**Rip currents**

BT: Nearshore currents  
 RT: Beach cusps  
 Coasts  
 Edge waves  
 Longshore currents  
 Rip channels  
 Surf zone  
 Undertow  
 Wave-current interaction  
 Wind-driven currents

**Riparian buffers**

SN: Areas that are managed to protect the aquatic and riparian ecosystem. A riparian buffer protects water quality and temperature, habitat along the

banks, upland habitat for aquatic and riparian species, and some or all of the floodplain.

RT: Land management  
 Riparian environments  
 Riparian vegetation  
 Riparian zone

**Riparian environments**

RT: Coasts  
 Hyporheic zone  
 Lake shores  
 Riparian buffers  
 Riparian zone  
 River banks

Riparian plants

USE: **Riparian vegetation**

**Riparian rights**

SN: Belonging to a person who owns land bordering a body of water  
 BT: Rights  
 RT: Irrigation water  
 Property rights  
 Recreational waters  
 Riparian zone  
 Water rights

**Riparian vegetation**

UF: Riparian plants  
 BT: Flora  
 RT: Riparian buffers

**Riparian zone**

RT: Coastal zone  
 Riparian buffers  
 Riparian environments  
 Riparian rights

**Ripple marks**

BT: Bedding structures  
 RT: Sand ripples  
 Transverse bed forms

Ripples (sand)

USE: **Sand ripples**

Ripples (water)

USE: **Water ripples**

**Riprap**

BT: Breakwaters

Rise (continental)

USE: **Continental rise**

Rise (oceanic)

USE: **Mid-ocean ridges**

**Riser cables**

BT: Cables  
 RT: Catenary  
 Electric cables

**Riser pipes**

UF: Marine risers  
 BT: Pipes  
 RT: Flowlines

**Risk management**

SN: The process of evaluating and selecting regulatory and non-regulatory responses to risk, taking into consideration legal, economic, and behavioural factor.

BT: Management

NT: Precautionary principle

RT: Biosecurity

Mitigation

Risks

**Risks**

SN: Includes risk analysis

RT: Feasibility

Hazards

Insurance

Precautionary principle

Reliability

Risk management

Uncertainty

**River banks**

BT: Banks (topography)

RT: Fluvial morphology

Levees

Riparian environments

River beds

Rivers

**River basin management**

BT: Ecosystem management

RT: Flood control

River basins

Water management

**River basins**

UF: Drainage basins

BT: Basins

RT: Catchment area

Fluvial features

Lake basins

River basin management

River valleys

Rivers

Watersheds

**River beds**

RT: Bed load

Bed roughness

Bottom friction

Fluvial morphology

Hyporheic zone

River banks

Rivers

River culture

USE: **Raceway culture**

River currents

USE: **Stream flow**

**River discharge**

SN: Flow from rivers into lakes and seas, contribution to water budget of seas and lakes, influence on environment and organisms

UF: River discharge effects

River inflow

BT: Inflow

RT: Fluvial transport

River outflow

River plumes

Rivers

Stream flow

Water budget

River discharge effects

USE: **River discharge**

**River engineering**

BT: Engineering

RT: Coastal engineering

Fluvial morphology

Rivers

Stream flow

Structural engineering

**River fisheries**

UF: Stream fisheries

BT: Inland fisheries

RT: Artisanal fisheries

Artisanal fishing

Crustacean fisheries

Estuarine fisheries

Rivers

Salmon fisheries

River flow

USE: **Stream flow**

River inflow

USE: **River discharge**

**River meanders**

SN: Before 1986 use

MEANDERS (RIVERS)

UF: Meanders (rivers)

RT: Flood plains

Fluvial features

Fluvial morphology

Meandering

Oxbow lakes

Rivers

River morphology

USE: **Fluvial morphology**

**River mouth**

SN: A river mouth is the part of a river that flows into a lake, reservoir or ocean

UF: Mouth (river)

RT: Estuaries

River outflow

**River outflow**

SN: Outflow of water from lakes and other inland water bodies

BT: Outflow

RT: River discharge

River mouth

Rivers

**River plumes**

SN: Plumes mainly caused by suspended material from river discharge into lakes, estuaries or marine coastal areas

BT: Plumes

RT: Estuarine fronts

River discharge

Salt-wedge estuaries

Sediment transport

Suspended particulate matter

Thermal decomposition

Turbidity

Water mixing

**River restoration**

BT: Environmental restoration

RT: Biodiversity

Flood control

Recreation

User participation

**River valleys**

UF: Stream valleys

BT: Valleys

RT: Alluvial terraces

Flood plains

Fluvial features

Fluvial morphology

River basins

Rivers

Thalweg

**River water**

BT: Water

RT: Blackwater rivers

Clearwater rivers

Rivers

Whitewater rivers

**Rivers**

UF: Creeks

Streams

BT: Inland waters

NT: Blackwater rivers

Clearwater rivers

Distributaries

Tributaries

Whitewater rivers

RT: Bayous

Channels

Deltas

Ephemeral streams

Flood plains

Fluvial features

Fluvial morphology

Fluvial sedimentation

Fluvial transport

Headwaters

Hyporheic zone

Lotic environment

Oxbow lakes

River banks

River basins

River beds

River discharge

River engineering

River fisheries

River meanders

River outflow

River valleys

River water

Stream flow

Stream flow rate

Water resources

White water river recreation

Rizipisciculture

USE: **Rice field aquaculture**

RM

USE: **Redmouth disease**

**RNA**

SN: Before 1982 search

RIBONUCLEIC ACID

UF: Ribonucleic acid

BT: Nucleic acids

RT: Polymerization

Protein sequencing

Ribosomes

RNA replication

RNA sequencing

Sequencing

**RNA replication**

SN: Before 2016 search

REPLICATION + RNA

BT: Replication

RT: Genes

Genomes

Nucleic acids

Protein synthesis

RNA

RNA sequence analysis

USE: **RNA sequencing**

**RNA sequencing**

SN: A multistage process that includes cloning, physical mapping, subcloning, sequencing, and information analysis of an RNA sequence

UF: RNA sequence analysis

BT: Sequencing

RT: Biochemistry

DNA

Genetics

Nucleotide sequence

Proteins

RNA

Road bridges

USE: **Bridges**

Roadsteads  
USE: **Anchorage**

**Robots**

BT: Electronic equipment  
RT: Automation  
Computers  
Manipulators  
Remote control

**Rock deformation**

BT: Deformation  
NT: Diapirism  
RT: Faults  
Folds  
Rock mechanics  
Rocks

Rock density  
USE: **Sediment density**

Rock falls  
USE: **Debris flow**

Rock magnetism  
USE: **Remanent magnetization**

**Rock mechanics**

UF: Rock shear  
Rock stress  
BT: Mechanics  
RT: Elasticity  
Rock deformation  
Rocks  
Soil mechanics

Rock pools  
USE: **Tidal pools**

Rock properties  
USE: **Sediment properties**

Rock samples  
USE: **Sediment samples**

Rock sampling  
USE: **Sediment sampling**

Rock shear  
USE: **Rock mechanics**

Rock stress  
USE: **Rock mechanics**

Rockfish fisheries  
USE: **Redfish fisheries**

Rocklobster fisheries  
USE: **Lobster fisheries**

**Rocks**

NT: Anisotropic rocks  
Bleached rocks  
Carbonate rocks  
Igneous rocks  
Metamorphic rocks  
Phosphate rocks

Sedimentary rocks  
Siliceous rocks  
RT: Basement rock  
Hydraulic fracturing  
Lithogenesis  
Outcrops  
Petrogenesis  
Petrology  
Quarries  
Rock deformation  
Rock mechanics  
Rocky shores

Rocky reefs  
USE: **Reefs**

**Rocky shores**

BT: Coastal landforms  
RT: Coasts  
Rocks

**Roe fisheries**

BT: Fisheries  
RT: Roes

**Roes**

SN: Gonads of fish or invertebrates marketed in various ways and usually referred to by individual species, e.g. cod roe, salmon roe, etc.  
UF: Fish roe  
Hard roe  
Invertebrate roe  
Milt  
Soft roe  
BT: Processed fishery products  
NT: Caviar  
RT: Roe fisheries

**ROI**

USE: **Return on investment**

**Roll resonance**

BT: Resonance  
RT: Buoy motion effects  
Rolling

**Roll response**

BT: Dynamic response  
RT: Buoy motion effects  
Rolling

**Rollers**

BT: Swell  
RT: Breakers  
Shoaling waves

**Rolling**

BT: Ship motion  
RT: Buoy motion effects  
Roll resonance  
Roll response  
Yawing

Root systems  
USE: **Roots**

**Roots**

UF: Root systems  
BT: Plant organs  
RT: Rhizomes

**Rope**

USE: **Ropes**

**Ropes**

UF: Rope  
NT: Fibre rope (natural)  
Fibre rope (synthetic)  
Wire rope  
RT: Cables  
Chain  
Mooring lines  
Nets  
Towing lines

**Rosby number**

RT: Coriolis force  
Dimensionless numbers  
Inertia  
Ratios  
Rosby parameter

**Rosby parameter**

BT: Parameters  
RT: Baroclinic instability  
Beta-plane  
Coriolis parameters  
Planetary waves  
Rosby number

**Rosby waves**

USE: **Planetary waves**

**Rotary currents**

BT: Tidal currents  
RT: Coriolis force  
Current ellipses

**Rotating fluids**

BT: Fluids  
RT: Fluid motion  
Vortices

**Rotation**

BT: Motion  
NT: Earth rotation  
RT: Anticyclonic motion  
Cyclonic motion  
Plate motion  
Plate tectonics  
Polar wandering  
Vorticity

**Rotenone**

RT: Toxicants

**Rough fish**

USE: **Trash fish**

**Roughness**

SN: Use of a more specific term is recommended



BT: Surface properties  
 NT: Bed roughness  
 Surface roughness  
 RT: Friction

ROVs  
 USE: **Unmanned vehicles**

**Row boats**  
 SN: Before 1982 search BOATS  
 BT: Boats

**Rubber**  
 SN: Rubber as a material used in the aquatic environment. For rubber cements or adhesives use ADHESIVES  
 BT: Materials

Rubber (adhesives)  
 USE: **Adhesives**

Rubbish  
 USE: **Litter**

**Rubblemound breakwaters**  
 BT: Breakwaters

**Rubidium**  
 BT: Alkali metals  
 RT: Rubidium isotopes

**Rubidium-strontium dating**  
 BT: Radiometric dating  
 RT: Rubidium isotopes  
 Strontium isotopes

**Rubidium isotopes**  
 BT: Isotopes  
 RT: Rubidium  
 Rubidium-strontium dating

**Rudites**  
 RT: Boulder clay  
 Boulders  
 Breccia  
 Cobblestone  
 Pebbles

**Runnels**  
 BT: Beach features  
 RT: Beaches  
 Channels

Running water culture  
 USE: **Raceway culture**

**Runoff**  
 SN: Water derived from atmospheric precipitation which reaches streams and rivers. The term must not be confused in this thesaurus with RIVER DISCHARGE  
 BT: Drainage water  
 NT: Agricultural runoff  
 Stormwater runoff

Urban runoff  
 RT: Catchment area  
 Nonpoint pollution sources  
 Point source pollution  
 Rainfall  
 Snowmelt  
 Waste water  
 Watersheds

Runoff from agricultural land  
 USE: **Agricultural runoff**

**Rural development**  
 UF: Development (rural)  
 RT: Fishery aid  
 Fishing communities  
 Urbanization

Rust  
 USE: **Corrosion**

**Ruthenium**  
 BT: Heavy metals  
 RT: Ruthenium isotopes

**Ruthenium isotopes**  
 BT: Isotopes  
 RT: Ruthenium

**Rutile**  
 BT: Oxide minerals  
 RT: Heavy minerals  
 Placers  
 Titanium

**S-waves**  
 UF: Secondary waves  
 Shear waves  
 BT: Body waves  
 RT: P-waves  
 Shear wave velocities

**Sabkhas**  
 UF: Salt flats  
 NT: Playas  
 RT: Arid environments  
 Coastal lagoons  
 Deserts  
 Eolian deposits  
 Evaporites  
 Salt deposits  
 Supralittoral zone

**Saccharides**  
 UF: Sugars  
 BT: Carbohydrates  
 NT: Monosaccharides  
 Polysaccharides

**Sacrificial anodes**  
 BT: Anodes  
 RT: Cathodic protection

Safety  
 USE: **Health and safety**

**Safety devices**  
 UF: Deck safety equipment  
 Safety equipment  
 BT: Equipment  
 RT: Accident prevention  
 Alarm systems  
 Breathing apparatus  
 Deck equipment  
 Fire extinguishers  
 Health and safety  
 Life saving equipment  
 Lifeboats  
 Protective clothing  
 Safety regulations  
 Warning systems

Safety equipment  
 USE: **Safety devices**

**Safety regulations**  
 BT: Legislation  
 NT: Diving regulations  
 RT: Accident prevention  
 Evacuation  
 Fire prevention  
 Health and safety  
 Quarantine regulations  
 Radiation protection  
 Safety devices

Sailing  
 USE: **Boating**

**Sailing ships**  
 BT: Ships  
 NT: Yachts  
 RT: Rigging  
 Sails

**Sails**  
 BT: Propulsion systems  
 RT: Sailing ships

**Saline fronts**  
 BT: Fronts

**Saline intrusion**  
 RT: Coastal aquifers  
 Ground water  
 Saline water  
 Salt-wedge estuaries  
 Salt wedges  
 Water mass intrusions  
 Water salinization

**Saline water**  
 SN: Water with high salt concentration in inland water bodies  
 UF: Salt water  
 BT: Water  
 RT: Brines  
 Desalination  
 Saline intrusion  
 Salt lakes  
 Salt marshes  
 Sea water  
 Water properties

**Salinity**

BT: Chemical properties  
 NT: Chlorinity  
 Chlorosity  
 Palaeosalinity  
 Surface salinity  
 RT: Abiotic factors  
 Cabbeling  
 Conservative properties  
 Desalination  
 Dissolved salts  
 Halocline  
 Hydroclimate  
 In situ density  
 Isohalines  
 Potential density  
 Refractive index  
 Response time  
 Salinity charts  
 Salinity data  
 Salinity effects  
 Salinity gradients  
 Salinity maximum layer  
 Salinity measurement  
 Salinity measuring equipment  
 Salinity microstructure  
 Salinity minimum layer  
 Salinity power  
 Salinity profiles  
 Salinity scales  
 Salinity sections  
 Salinity tolerance  
 Salt flux  
 Sea water  
 Sigma-T  
 Soil salinization  
 T-S diagrams  
 Water density  
 Water salinization  
 Water types

Salinity-temperature-depth observations

USE: **STD observations**

Salinity-temperature-depth profilers

USE: **STD profilers**

Salinity-temperature-depth profiles

USE: **STD profiles**

**Salinity charts**

BT: Hydrographic charts  
 RT: Isohalines  
 Salinity  
 Salinity data  
 Salinity sections  
 Salinity tables

**Salinity data**

BT: Hydrographic data  
 RT: Oceanographic data  
 Salinity  
 Salinity charts  
 Salinity tables

**Salinity effects**

BT: Environmental effects  
 RT: Salinity  
 Salinity tolerance  
 Water salinization

Salinity gradient energy conversion

USE: **Salinity power**

**Salinity gradients**

BT: Gradients  
 RT: Double diffusion  
 Salinity  
 Salinity power  
 Salinity profiles  
 Salt fingers

**Salinity maximum layer**

BT: Core layers (water)  
 RT: Salinity  
 Salinity minimum layer  
 Salinity profiles  
 Salinity sections

**Salinity measurement**

BT: Measurement  
 RT: Refractive index  
 Salinity  
 Salinity measuring equipment  
 Salinity tables  
 Standard sea water  
 Titration  
 Water analysis  
 Water salinization

**Salinity measuring equipment**

BT: Measuring devices  
 NT: Salinometers  
 RT: Conductivity sensors  
 CTD profilers  
 Salinity  
 Salinity measurement  
 STD profilers

**Salinity microstructure**

SN: Variations in the distribution of salinity on a scale of 10 cm or less.

BT: Microstructure

RT: Salinity

**Salinity minimum layer**

BT: Core layers (water)  
 RT: Salinity  
 Salinity maximum layer  
 Salinity profiles  
 Salinity sections

**Salinity power**

SN: Power derived from the osmotic pressure difference between two bodies of water of differing salinities  
 UF: Salinity gradient energy conversion  
 BT: Power from the sea  
 RT: Osmotic pressure

Salinity  
 Salinity gradients

**Salinity profiles**

BT: Vertical profiles  
 RT: CTD profilers  
 Salinity  
 Salinity gradients  
 Salinity maximum layer  
 Salinity minimum layer  
 Salinity sections  
 STD profilers

**Salinity scales**

NT: Practical salinity scale  
 RT: Salinity

**Salinity sections**

BT: Hydrographic sections  
 RT: Isohalines  
 Salinity  
 Salinity charts  
 Salinity maximum layer  
 Salinity minimum layer  
 Salinity profiles  
 Salinity stratification  
 Vertical distribution

**Salinity stratification**

UF: Stratification (salinity)  
 BT: Stratification  
 RT: Density stratification  
 Halocline  
 Salinity sections  
 Salt-wedge estuaries

**Salinity tables**

BT: Oceanographic tables  
 RT: Salinity charts  
 Salinity data  
 Salinity measurement

Salinity temperature depth profiles

USE: **STD profiles**

**Salinity tolerance**

BT: Tolerance  
 RT: Amphihaline species  
 Brackishwater organisms  
 Euryhalinity  
 Halophytes  
 Indicator species  
 Osmoregulation  
 Salinity  
 Salinity effects  
 Stenohalinity

**Salinization**

NT: Soil salinization  
 Water salinization

Salinization (soil)

USE: **Soil salinization**

Salinization (water)

USE: **Water salinization**

## ASFA THESAURUS

### **Salinometers**

BT: Salinity measuring equipment

### **Salmon culture**

SN: Before 2016 search FISH

CULTURE + species name

BT: Fish culture

### **Salmon fisheries**

UF: Trout fisheries

BT: Finfish fisheries

RT: Lake fisheries

River fisheries

Salmon nests

USE: **Redds**

### **Salp blooms**

BT: Blooms

### **Salt-wedge estuaries**

BT: Estuaries

RT: Halocline

River plumes

Saline intrusion

Salinity stratification

Salt wedges

Turbulent entrainment

### **Salt advection**

UF: Salt transport

BT: Advection

RT: Conservation of salt

Salt budget

### **Salt budget**

RT: Conservation of salt

Dissolved salts

Salt advection

Salt flux

Water budget

### **Salt deposits**

RT: Evaporites

Playas

Sabkhas

Salt lakes

Sediments

Subsurface deposits

### **Salt domes**

BT: Structural domes

RT: Anticlines

Cap rocks

Diapirism

Diapirs

Domes

Salt finger convection

USE: **Double diffusion**

Salt fingering

USE: **Double diffusion**

### **Salt fingers**

RT: Dissolved salts

Double diffusion

Interface phenomena

Microstructure

Salinity gradients

Transport processes

Salt flats

USE: **Sabkhas**

### **Salt flux**

RT: Dissolved salts

Salinity

Salt budget

### **Salt lakes**

BT: Lakes

RT: Dissolved salts

Halophytes

Playas

Saline water

Salt deposits

### **Salt marshes**

BT: Marshes

RT: Coastal marshes

Halophytes

Progradation

Saline water

Tidal flats

Tidal marshes

### **Salt nuclei**

UF: Sea salt nuclei

BT: Salt particles

### **Salt particles**

BT: Atmospheric particulates

NT: Salt nuclei

Salt spray

USE: **Spray**

Salt transport

USE: **Salt advection**

Salt water

USE: **Saline water**

Salt water wedges

USE: **Salt wedges**

### **Salt wedges**

UF: Salt water wedges

RT: Estuarine dynamics

Saline intrusion

Salt-wedge estuaries

### **Saltation**

RT: Bed load

Particle motion

Sediment transport

Suspension

Salting

USE: **Curing**

### **Salts**

UF: Mineral salts

NT: Carboxylic acid salts

Dissolved salts

RT: Carbonates

Chemical compounds

Conservation of salt

Cyanides

Desalination

Halogen compounds

Mineral resources

Nitrates

Nitrites

Phosphates

Salts extraction

USE: **Demineralization**

Saltwater shrimp culture

USE: **Shrimp culture**

Salvage

USE: **Salvaging**

### **Salvage equipment**

BT: Equipment

RT: Lifting tackle

Salvaging

Water pumps

### **Salvaging**

SN: Before 1986 search also

SALVAGE

UF: Recovery of wrecks

Salvage

Wreck recovery

RT: Locating

Removal

Salvage equipment

Search and rescue

Wrecks

### **Samarium**

BT: Lanthanides

RT: Samarium isotopes

### **Samarium isotopes**

BT: Isotopes

RT: Samarium

### **Sample contamination**

UF: Contamination of samples

RT: Sample storage

Samples

Sampling

### **Sample storage**

BT: Storage

RT: Core handling

Gene banks

Sample contamination

Samples

Sampling

### **Samplers**

UF: Sampling devices

NT: Sediment samplers

Water samplers

RT: Collecting devices

Oceanographic equipment  
Sampling

**Samples**

NT: Geological samples  
Water samples  
RT: Sample contamination  
Sample storage  
Sampling

**Sampling**

SN: Use of a more specific term is recommended  
UF: Sampling methods  
Sampling techniques  
NT: Air sampling  
Biological sampling  
Seafloor sampling  
Sediment sampling  
Statistical sampling  
Water sampling  
RT: Census  
Observers  
Sample contamination  
Sample storage  
Samplers  
Samples  
Surveying

Sampling (biological)  
USE: **Biological sampling**

Sampling (statistical)  
USE: **Statistical sampling**

Sampling devices  
USE: **Samplers**

Sampling methods  
USE: **Sampling**

Sampling techniques  
USE: **Sampling**

**Sanctuaries**

SN: Areas reserved for the protection of particular species of animals during part or all of the year  
RT: Freshwater parks  
Marine parks  
Nature conservation  
Refuges

**Sand**

BT: Clastics  
RT: Aggregates  
Arenites  
Beaches  
Berms  
Dunes  
Epipsammon  
Gravel  
Meiobenthos  
Psammon  
Sand bars  
Sand patches

Sand ribbons  
Sandstone  
Sediment load  
Sediment texture  
Silicates  
Silt  
Soils

**Sand banks**

BT: Banks (topography)  
Bed forms  
RT: Mud banks  
Shoals  
Submarine banks

**Sand bars**

BT: Bed forms  
RT: Nearshore bars  
Sand  
Shoals

Sand dunes (subaerial)

USE: **Dunes**

**Sand patches**

BT: Bed forms  
RT: Sand  
Transverse bed forms

Sand pits

USE: **Pits**

**Sand ribbons**

BT: Bed forms  
RT: Sand

**Sand ripples**

UF: Ripples (sand)  
Wave sand ripples  
BT: Bed forms  
RT: Beach features  
Ripple marks  
Transverse bed forms

**Sand structures**

BT: Artificial islands

Sand transport

USE: **Sediment transport**

Sand traps

USE: **Sediment traps**

**Sand waves**

UF: Megaripples  
Waves (sand)  
BT: Bed forms  
RT: Dunes  
Transverse bed forms  
Wave slope

**Sandstone**

BT: Clastics  
Sedimentary rocks  
NT: Oil sands  
RT: Arenites  
Eolian deposits

Graywacke  
Sand  
Siliceous rocks

Sandy beaches  
USE: **Beaches**

**Sanitary engineering**

BT: Engineering  
RT: Hygiene  
Sewage disposal  
Sewage ponds  
Sewage treatment  
Sludge treatment  
Waste disposal  
Waste treatment  
Waste water  
Wastewater treatment  
Water filtration  
Water pollution treatment  
Water purification

**Saponins**

BT: Glycosides

**Saponite**

BT: Clay minerals

**Saprobionts**

SN: Organisms feeding on decaying organic matters  
UF: Saprophag organisms  
Saprophytes  
Saprozoic organisms  
Saprozoites  
BT: Decomposers  
RT: Biodegradation  
Detritus feeders

Sapropelite

USE: **Sapropels**

**Sapropels**

SN: Black or brown sediments made up of organic debris. Before 1982 search SAPROPEL  
UF: Sapropelite  
BT: Organic sediments  
RT: Anoxic sediments  
Detritus  
Hydrocarbons  
Oozes  
Peat  
Stagnant water  
Suspended organic matter

Saprophag organisms

USE: **Saprobionts**

Saprophytes

USE: **Saprobionts**

**Saproplankton**

SN: Plankton found on the surface of stagnant water, developing on decaying organic matter  
BT: Zooplankton

- Saprozotic organisms  
USE: **Saprobionts**
- Saprozites  
USE: **Saprobionts**
- Sarcoma  
USE: **Tumours**
- Sardine fisheries  
USE: **Clupeoid fisheries**
- Sardinella fisheries  
USE: **Clupeoid fisheries**
- Sashimi**  
SN: Sliced fish and shellfish served raw  
BT: Fishery products
- Satellite-aided navigation  
USE: **Satellite navigation**
- Satellite-aided sensing  
USE: **Satellite sensing**
- Satellite-borne radar altimetry  
USE: **Satellite altimetry**
- Satellite-tracked buoys  
USE: **Drifting data buoys**
- Satellite altimetry**  
UF: Satellite-borne radar altimetry  
BT: Altimetry  
RT: Geoid  
Radar altimetry  
Sea level measurement  
Surface topography  
Wave measurement
- Satellite communication**  
BT: Communication  
RT: Communication satellites  
Telemetry
- Satellite imagery  
USE: **Satellite sensing**
- Satellite mosaics**  
SN: Satellite-sensed images assembled to form a continuous picture of portions of the Earth's surface  
UF: Satellite photographs  
BT: Audiovisual materials  
RT: Aerial photographs  
Infrared imagery  
Microwave imagery  
Satellite photography  
Satellite sensing
- Satellite navigation**  
UF: Satellite-aided navigation  
Satellite position fixing  
BT: Navigation
- Position fixing  
RT: Navigational satellites
- Satellite photographs  
USE: **Satellite mosaics**
- Satellite photography**  
UF: Visible and near-infrared imagery  
BT: Aerial photography  
RT: Multispectral scanners  
Satellite mosaics  
Satellite sensing
- Satellite position fixing  
USE: **Satellite navigation**
- Satellite sensing**  
UF: Satellite-aided sensing  
Satellite imagery  
BT: Geosensing  
RT: Infrared imagery  
Microwave imagery  
Radio oceanography  
Satellite mosaics  
Satellite photography  
Satellites
- Satellites**  
UF: Artificial satellites  
Satellites (artificial)  
NT: Communication satellites  
Navigational satellites  
Scientific satellites  
RT: Astronomy  
Electronic equipment  
Satellite sensing
- Satellites (artificial)  
USE: **Satellites**
- Saturated hydrocarbons**  
UF: Aliphatic hydrocarbons  
Alkanes  
BT: Hydrocarbons  
NT: Acyclic hydrocarbons  
Alicyclic hydrocarbons
- Saturation**  
UF: Saturation index  
NT: Supersaturation  
RT: Condensation  
Evaporation  
Saturation depth  
Solubility  
Solutions
- Saturation depth**  
RT: Saturation  
Water depth
- Saturation diving**  
BT: Diving  
RT: Breathing mixtures  
Decompression  
Diving bells  
Diving suits
- Working underwater
- Saturation index  
USE: **Saturation**
- Saturation vapour pressure  
USE: **Vapour pressure**
- Scad fisheries  
USE: **Carangid fisheries**
- Scale formation  
USE: **Scaling**
- Scale models**  
UF: Laboratory models  
Physical models  
BT: Models  
NT: Hydraulic models  
Ship models  
RT: Audiovisual materials  
Mathematical models
- Scale reading**  
BT: Age determination  
RT: Scales
- Scales**  
UF: Dermal denticles  
Fish scales  
BT: Exoskeleton  
RT: Integumentary system  
Scale reading
- Scaling**  
SN: Lime or other scale formation on structures and equipment  
UF: Scale formation  
NT: Liming  
RT: Fouling
- Scallop culture**  
SN: Before 1982 search  
MOLLUSC CULTURE  
BT: Bivalve culture
- Scallop fisheries**  
UF: Pecten fisheries  
BT: Mollusc fisheries  
RT: Coastal fisheries
- Scandium**  
BT: Nonmetals  
Transition elements  
RT: Scandium isotopes
- Scandium isotopes**  
BT: Isotopes  
RT: Scandium
- Scanning electron microscopy  
USE: **Electron microscopy**
- Scarps  
USE: **Escarments**

Scars

USE: **Lesions**

**Scatter diagrams**

BT: Statistical tables

RT: Regression analysis

**Scatterance meters**

BT: Light measuring instruments

RT: Scattering coefficient

Volume scattering function

Scattering (light)

USE: **Light scattering**

Scattering (sound)

USE: **Sound scattering**

Scattering (water waves)

USE: **Wave scattering**

**Scattering coefficient**

UF: Total scattering coefficient

BT: Optical properties

RT: Light scattering

Scatterance meters

**Scattering layers**

UF: Deep scattering layers

Sound scattering layers

BT: Discontinuity layers

RT: Echosounding

Scattering loss

USE: **Transmission loss**

**Scatterometers**

BT: Measuring devices

RT: Backscatter

Microwaves

Radar imagery

Remote sensing equipment

Synthetic aperture radar

**Scavengers**

SN: Animals feeding on dead animal material

BT: Heterotrophic organisms

**Schistosomiasis**

BT: Parasitic diseases

**Schists**

BT: Metamorphic rocks

NT: Greenschists

Scholarships

USE: **Fellowships**

**Schooling behaviour**

SN: Swarming, herding and flocking of any aquatic population

UF: Schools (biological)

BT: Social behaviour

RT: Feeding behaviour

Protective behaviour

Schools (biological)

USE: **Schooling behaviour**

Schools (educational)

USE: **Education establishments**

**Scientific advice**

SN: The conclusion of a skilled evaluation taking account of scientific evidence including uncertainty

RT: Fishery management

Planning

Policies

Precautionary principle

Uncertainty

**Scientific laws**

SN: A generalized description of how things behave in nature under a variety of circumstances

UF: Laws (scientific laws)

Laws of nature

Laws of science

RT: Research

Scientific logbooks

USE: **Logbooks**

**Scientific personnel**

SN: Before 1986 search also SCIENTISTS

UF: Research workers

Researchers

Scientific research workers

Scientific researchers

Scientists

BT: Personnel

NT: Biologists

Ecologists

Freshwater scientists

Geologists

Information scientists

Marine scientists

Meteorologists

Statisticians

Veterinarians

RT: Consultants

Experts

Technicians

Scientific research

USE: **Research**

Scientific research workers

USE: **Scientific personnel**

Scientific researchers

USE: **Scientific personnel**

**Scientific satellites**

UF: Meteorological satellites

Oceanographic satellites

BT: Satellites

RT: Geosensing

Scientists

USE: **Scientific personnel**

Scooping gear

USE: **Lift-nets**

Scorpionfish fisheries

USE: **Redfish fisheries**

Scottish seines

USE: **Boat seines**

**Scour and fill**

BT: Sedimentary structures

RT: Current scouring

Scouring

**Scour hollows**

BT: Bed forms

RT: Current scouring

**Scour marks**

BT: Current marks

RT: Current scouring

**Scour protection**

BT: Protection

RT: Artificial seaweed

Pipeline protection

Scouring

**Scouring**

SN: Use of a more specific term is recommended

BT: Erosion

NT: Current scouring

Iceberg scouring

Wave scouring

RT: Bottom currents

Deterioration

Failures

Scour and fill

Scour protection

Wind abrasion

SCP

USE: **Single cell proteins**

**Screening**

RT: Filtration

Screens

**Screens**

UF: Fish screens

RT: Aquaculture equipment

Fishways

Screening

**Scuba diving**

SN: Before 1982 search DIVING

UF: Skin diving

BT: Diving

RT: Breathing apparatus

Breathing mixtures

Sea-air exchanges

USE: **Air-water exchanges**

**Sea-based pollution**

BT: Pollution  
RT: Vessel wastes

**Sea bass culture**

SN: Before 2016 search FISH  
CULTURE + species  
BT: Fish culture

Sea bass fisheries

USE: **Marine fisheries**

Sea bed

USE: **Ocean floor**

Sea blooms

USE: **Algal blooms**

**Sea bream culture**

SN: Before 2016 search FISH  
CULTURE + species name  
BT: Fish culture

**Sea breezes**

SN: Blowing from sea to land.  
Before 1995 search also LAND  
+ SEA BREEZES  
UF: Lake breezes  
BT: Breezes  
RT: Land breezes  
Monsoons

Sea caves

USE: **Caves**

Sea clutter

USE: **Surface clutter**

Sea coast

USE: **Coasts**

**Sea cucumber culture**

UF: Beche-de-mer culture  
BT: Echinoderm culture

**Sea cucumber fisheries**

SN: Before 2016 search  
ECHINODERM FISHERIES  
UF: Beche-de-mer fisheries  
Trepang fisheries  
BT: Echinoderm fisheries

Sea fans

USE: **Deep-sea fans**

Sea farming

USE: **Marine aquaculture**

Sea fisheries

USE: **Marine fisheries**

Sea floor

USE: **Ocean floor**

Sea floor topography

USE: **Bottom topography**

Sea fog

USE: **Fog**

**Sea grass**

SN: Species of embryophytes  
living in marine coastal waters.  
Flowering plants (angiosperms)  
that colonised the sea. They are  
the only flowering plants that  
can live under seawater and are  
not related to seaweeds

UF: Sea grasses

Seagrass

Seagrasses

BT: Macrophytes

Marine plants

NT: Artificial sea grass

RT: Seaweeds

Sea grasses

USE: **Sea grass**

**Sea ice**

BT: Ice

RT: Brines

Fast ice

Floating ice

Ice breaking

Ice fields

Ice keels

Ice rafting

Ocean-ice-atmosphere system

Sea water

Sea law

USE: **Law of the sea**

**Sea level**

SN: Height or level of the sea  
surface

UF: Half tide level

Sea level data

Sea level records

Still water level

BT: Water levels

NT: Isostatic sea level

Mean sea level

Steric sea level

RT: Datum levels

Hypsometry

Polders

Quaternary

Sea level changes

Sea level measurement

Sea level pressure

Southern oscillation

Surface slope

Surface topography

Tides

**Sea level changes**

SN: Before 1995 search also SEA  
LEVEL VARIATIONS

UF: Sea level variations

BT: Long-term changes

NT: Eustatic changes

RT: Climatic changes

Palaeoshorelines

Raised beaches

Regressions

Sea level

Sea level measurement

Solar-terrestrial activity

Strandlines

Transgressions

Sea level data

USE: **Sea level**

**Sea level measurement**

SN: Before 1984 search also SEA  
LEVEL MEASURING

BT: Water level measurement

RT: Bench marks

Satellite altimetry

Sea level

Sea level changes

Surface topography

**Sea level pressure**

BT: Atmospheric pressure

RT: High pressure systems

Sea level

Southern oscillation

Weather

Winds

Sea level records

USE: **Sea level**

Sea level slope

USE: **Surface slope**

Sea level variations

USE: **Sea level changes**

Sea mist

USE: **Fog**

Sea salt nuclei

USE: **Salt nuclei**

**Sea sickness**

UF: Motion sickness

BT: Human diseases

RT: Ship motion

Sea smoke

USE: **Fog**

Sea snail fisheries

USE: **Gastropod fisheries**

Sea spray

USE: **Spray**

**Sea state**

RT: Environmental conditions

Sea state scales

Surface water waves

Wave climate

Wave predicting

Weather

**Sea state scales**

UF: Douglas scale  
RT: Beaufort scale  
Sea state  
Surface water waves

Sea states (countries)

USE: **Coastal states**

**Sea surface**

BT: Surfaces  
RT: Air-sea interaction  
Air-water interface  
Surface chemistry  
Surface films  
Surface microlayer  
Surface properties  
Surface radiation temperature  
Surface salinity  
Surface slope  
Surface temperature  
Surface topography  
Surface water waves

Sea surface clutter

USE: **Surface clutter**

Sea surface salinity

USE: **Surface salinity**

Sea surface slope

USE: **Surface slope**

Sea surface temperature

USE: **Surface temperature**

Sea surface topography

USE: **Surface topography**

**Sea turtles**

UF: Marine turtles  
BT: Aquatic reptiles  
Marine organisms  
RT: Freshwater turtles

**Sea urchin culture**

BT: Echinoderm culture

**Sea urchin fisheries**

SN: Before 2016 search  
ECHINODERM FISHERIES  
BT: Echinoderm fisheries

**Sea walls**

BT: Coast defences  
RT: Breakwaters  
Ice loads  
Wave runup

**Sea water**

UF: Marine water  
Ocean water  
Seawater  
BT: Water  
NT: Dense water  
Fossil sea water

Standard sea water  
RT: Artificial seawater  
Desalination  
Marine environment  
Relative density  
Saline water  
Salinity  
Sea ice  
Seawater evolution

Sea water conversion  
USE: **Desalination**

Seabed  
USE: **Ocean floor**

Seabed acoustic position fixing  
USE: **Navigation underwater**

**Seabed conventions**  
UF: Seabed treaties  
BT: International agreements  
RT: Law of the sea  
Ocean policy  
Undersea warfare

**Seabed deposits**  
BT: Mineral deposits  
NT: Aggregates  
Ferromanganese nodules  
Phosphorite nodules  
Placers  
RT: Deep-sea mining  
Metalliferous sediments  
Nodules  
Nonrenewable resources  
Sulphide deposits

**Seabed drifters**  
BT: Subsurface drifters  
RT: Bottom currents

Seabed engineering  
USE: **Offshore engineering**

Seabed farming  
USE: **Bottom culture**

Seabed foundations  
USE: **Foundations**

Seabed habitats  
USE: **Underwater habitats**

Seabed photographs  
USE: **Bottom photographs**

**Seabed protection**  
BT: Protection  
RT: Artificial seaweed

Seabed samplers  
USE: **Sediment samplers**

Seabed sampling  
USE: **Seafloor sampling**

Seabed treaties  
USE: **Seabed conventions**

**Seabed vehicles**  
UF: Bottom crawlers  
Crawlers  
BT: Unmanned vehicles  
RT: Self-propelled vehicles  
Tethered vehicles

**Seabights**  
BT: Submarine features

Seabream fisheries  
USE: **Percoid fisheries**

**Seachannels**  
BT: Bed forms  
Channels  
NT: Deep-sea channels  
RT: Abyssal plains  
Bottom erosion  
Deep-sea fans  
Levees  
Microtopography

Seacoast  
USE: **Coasts**

**Seafloor mapping**  
BT: Mapping  
RT: Bathymetry  
Echosounding  
Geological surveys  
Ocean floor  
Sediment sampling  
Sonographs  
Swaths  
Underwater exploration

**Seafloor sampling**  
UF: Bottom sampling  
Seabed sampling  
BT: Sampling  
RT: Benthos collecting devices  
Dredges (geology)  
Drilling  
Geological surveys  
Ocean floor  
Penetrometers  
Sediment sampling  
Surveying underwater

**Seafloor spreading**  
UF: Spreading rate  
RT: Continental drift  
Fracture zones  
Magnetic anomalies  
Mantle convection  
Median valleys  
Mid-ocean ridges  
Moho  
Ocean floor  
Palaeomagnetism  
Plate tectonics  
Rifting  
Spreading centres



**Seafood**

BT: Human food  
 RT: Allergens  
 Processed fishery products  
 Shellfish

Seafood products  
 USE: **Fishery products**

Seagrass  
 USE: **Sea grass**

Seagrass resources  
 USE: **Botanical resources**

Seagrasses  
 USE: **Sea grass**

Seakeeping  
 USE: **Ship motion**

**Seaknolls**  
 UF: Knolls (submarine)  
 BT: Submarine features

Sealing  
 USE: **Seals (stoppers)**

**Seals (stoppers)**  
 UF: Oil seals  
 Sealing  
 RT: Leaks

**Seamanship**  
 RT: Navigation  
 Ship handling  
 Station keeping

**Seamount chains**  
 BT: Submarine features  
 RT: Hot spots  
 Seamounts  
 Submarine volcanoes

**Seamounts**  
 SN: Elevations of sea floor, usually volcanic, which may form islands  
 BT: Submarine features  
 NT: Guyots  
 RT: Mountains  
 Seamount chains

**Seaquakes**  
 RT: Earthquakes

**Search and rescue**  
 UF: Rescue  
 RT: Accidents  
 Diving  
 Emergency vessels  
 Locating  
 Salvaging  
 Survival at sea  
 Underwater object location

Seas  
 USE: **Oceans**

Seashells  
 USE: **Shells**

Seashore ecology  
 USE: **Marine ecology**

**Season regulations**  
 UF: Closed seasons  
 Fishing seasons  
 BT: Fishery regulations  
 RT: Permits

Seasonal changes  
 USE: **Seasonal variations**

**Seasonal distribution**  
 SN: Before 1982 search  
 TEMPORAL DISTRIBUTION  
 BT: Temporal distribution  
 RT: Migrations  
 Seasonal variations  
 Seasonality

Seasonal patterns  
 USE: **Seasonality**

Seasonal ponds  
 USE: **Temporary ponds**

**Seasonal thermocline**  
 BT: Thermocline  
 RT: Metalimnion  
 Seasonal variations  
 Tidal fronts

Seasonal thermocline (lakes)  
 USE: **Metalimnion**

Seasonal variability  
 USE: **Seasonal variations**

**Seasonal variations**  
 SN: Changes between successive seasons  
 UF: Seasonal changes  
 Seasonal variability  
 Within-year variations  
 BT: Periodic variations  
 RT: Annual variations  
 Horizontal distribution  
 Phenology  
 Regional variations  
 Seasonal distribution  
 Seasonal thermocline  
 Seasonality  
 Seasons  
 Vertical distribution

Seasonal water bodies  
 USE: **Intermittent water bodies**

**Seasonality**  
 SN: A pattern, variation, or fluctuation that is correlated

with a season, day of the week, or other period of time. Before 1982 search also SEASONAL VARIATIONS  
 UF: Seasonal patterns  
 BT: Periodicity  
 RT: Seasonal distribution  
 Seasonal variations  
 Seasons

**Seasons**  
 SN: Use of a more specific term is recommended  
 NT: Autumn  
 Cold season  
 Dry season  
 Rainy season  
 Spring  
 Summer  
 Winter  
 RT: Climate  
 Climatic zones  
 Climatology  
 Seasonal variations  
 Seasonality  
 Spawning seasons

Seawall wright effect  
 USE: **Genetic drift**

Seawater  
 USE: **Sea water**

Seawater ballast  
 USE: **Ballast**

Seawater conversion  
 USE: **Desalination**

**Seawater evolution**  
 UF: Evolution (seawater)  
 History of sea water  
 RT: Atmosphere evolution  
 Geochemistry  
 Sea water

Seaweed  
 USE: **Seaweeds**

Seaweed (artificial)  
 USE: **Artificial seaweed**

**Seaweed culture**  
 SN: Methods and techniques for culture and harvesting of seaweeds  
 UF: Seaweed farming  
 BT: Plant culture  
 RT: Algae  
 Brackishwater aquaculture  
 Marine aquaculture  
 Off-bottom culture  
 Seaweed industry  
 Seaweeds

Seaweed farming  
 USE: **Seaweed culture**

## ASFA THESAURUS

### Seaweed harvesting

BT: Harvesting  
RT: Seaweed industry  
Seaweed processing  
Seaweed products  
Seaweed statistics  
Seaweeds

### Seaweed industry

SN: Including any industries of seaweed products obtained by handling or processing methods.  
BT: Industries  
NT: Seaweed processing  
Seaweed products  
RT: Seaweed culture  
Seaweed harvesting

Seaweed meal

USE: **Alginates**

### Seaweed processing

SN: Processing of marine plants and marine plant products  
BT: Processing fishery products  
Seaweed industry  
RT: Seaweed harvesting  
Seaweed products  
Seaweeds

### Seaweed products

BT: Processed fishery products  
Seaweed industry  
NT: Agar  
Alginates  
Carrageenins  
RT: Seaweed harvesting  
Seaweed processing  
Seaweeds

Seaweed resources

USE: **Botanical resources**

### Seaweed statistics

SN: Tabulation of harvested macro algae from natural beds or artificial culture  
BT: Catch statistics  
RT: Aquaculture statistics  
Seaweed harvesting  
Seaweeds

### Seaweeds

SN: Any macro-algae of marine environment, mainly species of coastal region  
UF: Seaweed  
BT: Marine plants  
Weeds  
NT: Kelps  
RT: Algae  
Artificial seaweed  
Holdfasts  
Marine organisms  
Sea grass  
Seaweed culture

Seaweed harvesting  
Seaweed processing  
Seaweed products  
Seaweed statistics  
Terpenes

### Secchi discs

BT: Light measuring instruments

### Secondary production

BT: Biological production  
RT: Predators  
Primary production  
Zooplankton

Secondary sedimentary structures

USE: **Sedimentary structures**

Secondary sex characteristics

USE: **Secondary sexual characters**

### Secondary sexual characters

UF: Secondary sex characteristics  
BT: Sex characters  
NT: Ornamentation  
RT: Feminization  
Masculinization  
Sexual dimorphism

Secondary waves

USE: **S-waves**

### Secretion

NT: Lactation  
Neurosecretion  
RT: Byssus  
Excretion  
Hormones  
Secretory organs  
Secretory products

### Secretory organs

NT: Glands  
Stomach  
RT: Secretion  
Secretory products  
Venom apparatus

### Secretory products

NT: Hormones  
Mucus  
Semen  
RT: Secretion  
Secretory organs

Secular fluctuations

USE: **Long-term changes**

### Security

SN: Use for national defence, and for protective measures for drilling platforms, fishing fleets etc. against terrorism and sabotage  
UF: Defence  
RT: Defence craft

Military operations  
Piracy  
Protection vessels  
Surveillance and enforcement

Sedentary organisms

USE: **Sessile species**

Sedentary resources

USE: **Sedentary species**

### Sedentary species

UF: Sedentary resources  
BT: Species  
RT: Migratory species  
Sessile species

### Sediment-water exchanges

RT: Gas exchange  
Heat exchange  
Heat flow  
Sediment-water interface

### Sediment-water interface

SN: Including chemical or physical phenomena occurring in the sediment-water interface  
BT: Interfaces  
RT: Bed forms  
Benthic environment  
Heat exchange  
Heat flow  
Hyporheic zone  
Sediment-water exchanges  
Sediment pollution  
Sediment temperature  
Sediments  
Wave-seabed interaction

### Sediment analysis

SN: Analysis of sediments for determination of organic and inorganic components including minerals  
BT: Analysis  
NT: Core analysis  
RT: Chemical analysis  
Gravimetric techniques  
Hydrocarbon analysis  
Pollution detection  
Sediment chemistry  
Sediment composition  
Sediment density  
Sediment pollution  
Sediment properties  
Sediment samplers  
Sediment samples  
Sediment structure  
Sediment texture  
Sediments

### Sediment chemistry

BT: Geochemistry  
RT: Biogeochemistry  
Chemical properties  
Mineralogy  
Sediment analysis

- Sediment composition
- Sediment fingerprinting
- Sediment collections**
  - SN: Collections of sediment samples obtained mainly by coring
  - BT: Collections
  - RT: Sediment sampling
  - Sediments
- Sediment composition**
  - BT: Composition
  - RT: Sediment analysis
  - Sediment chemistry
  - Sediment fingerprinting
  - Sediment texture
- Sediment density**
  - UF: Rock density
  - BT: Density
  - Sediment properties
  - NT: Wet bulk density
  - RT: Sediment analysis
  - Sediments
- Sediment deposition
- USE: **Sedimentation**
- Sediment distribution**
  - SN: Geographic distribution of bottom sediments
  - BT: Distribution
  - RT: Bottom topography
  - Geographical distribution
  - Geological maps
  - Sediments
- Sediment drifts**
  - UF: Sediment ridges
  - BT: Bed forms
  - RT: Bottom currents
  - Deposition features
  - Soil mechanics
- Sediment dynamics**
  - BT: Dynamics
  - RT: Bottom stress
  - Channel flow
  - Particle motion
  - Sediment movement
  - Sediment stability
  - Sediment transport
- Sediment fingerprinting**
  - SN: A technique for quantifying the relative contribution of sediment from different sources in a catchment
  - BT: Fingerprinting
  - RT: Sediment chemistry
  - Sediment composition
  - Sediment properties
  - Sediment sources
  - Sediment transport
- Sediment flow
- USE: **Sediment gravity flows**
- Sediment gravity flows**
  - UF: Sediment flow
  - BT: Sediment movement
  - NT: Fluidized sediment flow
  - Grain flow
  - Turbidity currents
- Sediment load**
  - NT: Bed load
  - Suspended load
  - RT: Clays
  - Gravel
  - Sand
  - Sediment transport
- Sediment mixing**
  - UF: Mixing (sediments)
  - NT: Bioturbation
  - Gas turbation
  - RT: Mixing processes
  - Sediment sorting
  - Sediments
- Sediment movement**
  - BT: Motion
  - NT: Mass movement
  - Sediment gravity flows
  - RT: Particle motion
  - Sediment dynamics
  - Sediment noise
  - Sediment transport
  - Sediments
- Sediment noise**
  - SN: Noise created by movement of sand and shingle due to currents and waves
  - BT: Ambient noise
  - RT: Sediment movement
  - Sediments
- Sediment particle motion
- USE: **Particle motion**
- Sediment permeability
- USE: **Permeability**
- Sediment pollution**
  - SN: Pollution of sediments
  - BT: Pollution
  - RT: Chemical pollution
  - Groundwater pollution
  - Oil pollution
  - Sediment-water interface
  - Sediment analysis
  - Sediment sampling
- Sediment properties**
  - UF: Geotechnical properties
  - Rock properties
  - Soil properties
  - BT: Properties
  - NT: Grain properties
  - Sediment density
- Sediment stability
- Sediment structure
- Sediment temperature
- Sediment texture
- RT: Hard bottom habitats
- Penetration depth
- Physical properties
- Pore pressure
- Sediment analysis
- Sediment fingerprinting
- Soft bottom habitats
- Soil mechanics
- Water content
- Sediment ridges
- USE: **Sediment drifts**
- Sediment samplers**
  - UF: Seabed samplers
  - BT: Samplers
  - NT: Corers
  - Dredges (geology)
  - Drills
  - Grabs
  - Pore water samplers
  - RT: Geological equipment
  - Sediment analysis
  - Sediment samples
  - Sediment sampling
  - Sediment traps
- Sediment samples**
  - UF: Rock samples
  - BT: Geological samples
  - NT: Cores
  - Dredged samples
  - RT: Sediment analysis
  - Sediment samplers
  - Sediment sampling
- Sediment sampling**
  - UF: Rock sampling
  - Soil sampling
  - BT: Sampling
  - NT: Coring
  - RT: Mineral exploration
  - Penetrometers
  - Seafloor mapping
  - Seafloor sampling
  - Sediment collections
  - Sediment pollution
  - Sediment samplers
  - Sediment samples
  - Surveying underwater
- Sediment size
- USE: **Grain size**
- Sediment sorting**
  - NT: Winnowing
  - RT: Grain size
  - Sediment mixing
  - Sediments
- Sediment source region
- USE: **Provenance**

**Sediment sources**

BT: Sediments  
RT: Sediment fingerprinting

**Sediment stability**

BT: Sediment properties  
Stability  
RT: Sediment dynamics  
Settlement (structural)  
Slope stability  
Soil mechanics

**Sediment structure**

SN: Description of adhesive and cementive properties of sediment and sediment permeability and porosity  
BT: Sediment properties  
RT: Sediment analysis  
Sediment texture  
Stratigraphy

**Sediment temperature**

SN: Gradient or temperature fluxes in sediments  
UF: Beach temperature  
BT: Sediment properties  
Temperature  
RT: Geothermal measurement  
Heat flow  
Sediment-water interface  
Sediments  
Water temperature

Sediment temperature measurement

USE: **Geothermal measurement**

**Sediment texture**

SN: Description of particle size of sediments  
BT: Sediment properties  
Texture  
RT: Grain orientation  
Grain packing  
Grain shape  
Grain size  
Gravel  
Sand  
Sediment analysis  
Sediment composition  
Sediment structure  
Sediments

**Sediment transport**

UF: Sand transport  
Sediment transport rate  
Subaqueous sediment transport  
BT: Transport  
NT: Eolian transport  
Fluvial transport  
Glacial transport  
Longshore sediment transport  
Mass gravity transport (sediments)  
Rafting  
RT: Bed load  
Blackwater rivers

Bottom stress  
Channel flow  
Clearwater rivers  
Coastal erosion  
Mass movement  
Particle motion  
River plumes  
Saltation  
Sediment dynamics  
Sediment fingerprinting  
Sediment load  
Sediment movement  
Sedimentation  
Sediments  
Shoaling  
Suspended load  
Suspended particulate matter  
Suspension  
Tracers  
Traction  
Turbidity currents  
Wave effects  
Whitewater rivers

Sediment transport rate

USE: **Sediment transport**

**Sediment traps**

UF: Sand traps  
RT: Collecting devices  
Geological equipment  
Particulate flux  
Resuspended sediments  
Sediment samplers  
Silt meters  
Suspended particulate matter

**Sedimentary basins**

BT: Basins  
RT: Sedimentation  
Structural basins

Sedimentary deposits

USE: **Sediments**

**Sedimentary environments**

UF: Depositional environments  
BT: Environments  
RT: Deltaic sedimentation  
Estuarine sedimentation  
Fluvial sedimentation  
Glacial sedimentation  
Lacustrine sedimentation  
Lagoonal sedimentation  
Nearshore sedimentation  
Sediments  
Shelf sedimentation

**Sedimentary facies**

BT: Facies

Sedimentary petrography

USE: **Petrology**

**Sedimentary rocks**

UF: Sediments (consolidates)  
BT: Rocks

NT: Boulders  
Cobblestone  
Marlstone  
Mudstone  
Sandstone  
Shale  
Siltstone  
RT: Carbonate rocks  
Evaporites  
Graywacke  
Gypsum  
Ironstone  
Marl  
Phosphate rocks  
Sediments  
Siliceous rocks  
Slates  
Tephra

**Sedimentary structures**

SN: Features that originate within layers of sediments or along the sediment-water interface prior to lithification

UF: Olistoliths

Primary sedimentary structures

Secondary sedimentary structures

NT: Bed forms

Bedding structures  
Biogenic sedimentary structures  
Boudinage  
Flow structures  
Mud flats  
Pillow structures  
Scour and fill  
Slump structures  
Turbidity current structures

RT: Concretions

Erosion features  
Geological structures  
Nodules  
Olistostromes  
Sedimentation  
Sediments

**Sedimentation**

SN: Before 1983 search also **SEDIMENT DEPOSITION**

UF: Accumulation of sediments

Deposition (geology)  
Freshwater sedimentation  
Geological deposition  
Marine sedimentation  
Sediment deposition

NT: Deltaic sedimentation

Diagenesis  
Estuarine sedimentation  
Fluvial sedimentation  
Glacial sedimentation  
Intertidal sedimentation  
Lacustrine sedimentation  
Lagoonal sedimentation  
Nearshore sedimentation  
Pelagic sedimentation  
Shelf sedimentation

RT: Accretion

ASFA THESAURUS

Biofacies  
 Chemical precipitation  
 Decantation  
 Erosion  
 Provenance  
 Reef formation  
 Sediment transport  
 Sedimentary basins  
 Sedimentary structures  
 Sedimentology  
 Sediments  
 Silting  
 Suspended particulate matter

**Sedimentology**

BT: Geology  
 RT: Diagenesis  
 Geomorphology  
 Marine geology  
 Mineralogy  
 Palaeontology  
 Sedimentation  
 Sediments

**Sediments**

SN: Use of a more specific term is recommended; consult terms listed below  
 UF: Sedimentary deposits  
 NT: Alluvial deposits  
 Anoxic sediments  
 Authigenic minerals  
 Biogenic deposits  
 Carbonate sediments  
 Chemical sediments  
 Clastics  
 Cohesionless sediments  
 Cohesive sediments  
 Littoral deposits  
 Oxidic sediments  
 Pelagic sediments  
 Recent sediments  
 Relict sediments  
 Resuspended sediments  
 Sediment sources  
 Terrigenous sediments  
 Volcanogenic deposits  
 RT: Aggregates  
 Allochthonous deposits  
 Argillaceous deposits  
 Autochthonous deposits  
 Biological rafting  
 Bioturbation  
 Catagenesis  
 Cosmic dust  
 Detrital deposits  
 Hyporheic zone  
 Lithofacies  
 Melanges  
 Oozes  
 Petrology  
 Provenance  
 Salt deposits  
 Sediment-water interface  
 Sediment analysis  
 Sediment collections  
 Sediment density

Sediment distribution  
 Sediment mixing  
 Sediment movement  
 Sediment noise  
 Sediment sorting  
 Sediment temperature  
 Sediment texture  
 Sediment transport  
 Sedimentary environments  
 Sedimentary rocks  
 Sedimentary structures  
 Sedimentation  
 Sedimentology  
 Soils  
 Stratigraphic correlation  
 Tidal deposits

Sediments (consolidates)  
 USE: **Sedimentary rocks**

Sediments in suspension  
 USE: **Resuspended sediments**

**Seed (aquaculture)**

UF: Fish seed  
 RT: Fingerlings  
 Fry  
 Larvae  
 Seed collection  
 Seeding (aquaculture)  
 Spat

**Seed collection**

UF: Fish fry collection  
 Seed fishery  
 Seed fishing  
 Spat collection  
 Spore collection  
 RT: Fry  
 Hatcheries  
 Seed (aquaculture)  
 Seed production  
 Seeding (aquaculture)  
 Spores

Seed fishery  
 USE: **Seed collection**

Seed fishing  
 USE: **Seed collection**

**Seed production**

SN: Before 1982 search SEEDING (AQUACULTURE)  
 RT: Batch culture  
 Hatcheries  
 Seed collection  
 Seeding (aquaculture)

**Seeding (aquaculture)**

RT: Colonization  
 Seed (aquaculture)  
 Seed collection  
 Seed production  
 Stocking (organisms)  
 Transplantation

**Seedlings**

RT: Seeds

**Seeds**

RT: Germination  
 Seedlings

**Seepages**

SN: Use of a more specific term is recommended  
 UF: Seeps  
 NT: Gas seepages  
 Oil seepages  
 RT: Percolation  
 Pollution  
 Water springs

**Seeps**

USE: **Seepages**

**Segregation**

BT: Behaviour  
 RT: Activity patterns  
 Interspecific relationships  
 Intraspecific relationships

**Seiches**

UF: Surges (seiches)  
 BT: Surface water waves  
 NT: Harbour oscillations  
 RT: Dynamical oceanography  
 Lake dynamics  
 Standing waves  
 Surface gravity waves  
 Surges

**Seine nets**

BT: Fishing nets  
 NT: Beach seines  
 Boat seines  
 RT: Seiners  
 Seining

**Seiners**

SN: Any type of vessel used in seining or encircling operations  
 UF: Purse seiners  
 BT: Fishing vessels  
 RT: Purse seines  
 Seine nets  
 Seining  
 Surrounding nets

**Seining**

BT: Net fishing  
 NT: Purse seining  
 RT: Seine nets  
 Seiners  
 Surrounding nets

**Seismic activity**

SN: General phenomena of earth movement and effects on aquatic environment and its exploitation. Before 1983 search also SEISMIC EFFECTS and SEISMICITY

UF: Seismic effects  
Seismicity  
RT: Earthquake loading  
Earthquakes  
Environmental factors  
Ground motion  
Seismic waves  
Seismic zones  
Seismology

**Seismic arrays**

BT: Arrays  
RT: Acoustic arrays  
Seismic energy sources  
Seismic equipment

**Seismic attenuation**

SN: Seismic wave attenuation  
BT: Attenuation  
RT: Seismic waves

**Seismic data**

BT: Geophysical data  
RT: Seismic data processing

**Seismic data processing**

BT: Data processing  
NT: Bright spot technology  
RT: Convolution  
Data reduction  
Deconvolution  
Seismic data

Seismic deconvolution

USE: **Deconvolution**

**Seismic discontinuities**

NT: Moho  
RT: Seismic layers  
Seismic velocities

Seismic effects

USE: **Seismic activity**

**Seismic energy sources**

NT: Air guns  
Sparkers  
RT: Seismic arrays  
Seismic equipment  
Seismic exploration  
Sound generators

Seismic epicentres

USE: **Epicentres**

**Seismic equipment**

BT: Geophysical equipment  
RT: Seismic arrays  
Seismic energy sources  
Seismic exploration  
Seismometers  
Sonobuoys  
Streamers

Seismic events

USE: **Earthquakes**

**Seismic exploration**

SN: Before 1983 search also  
SEISMIC PROFILING  
UF: Seismic methods  
Seismic profiling  
BT: Geophysical exploration  
NT: Seismic reflection profiling  
Seismic refraction profiling  
Sub-bottom profiling  
RT: Geological surveys  
Seismic energy sources  
Seismic equipment  
Seismic profiles  
Seismology

**Seismic layers**

BT: Earth structure  
Layers  
NT: Low-velocity layer  
RT: Seismic discontinuities  
Seismic velocities

Seismic margins

USE: **Active margins**

Seismic methods

USE: **Seismic exploration**

**Seismic profiles**

UF: Seismic sections  
BT: Analog records  
NT: Seismic reflection profiles  
Seismic refraction profiles  
RT: Bright spot technology  
Geological sections  
Seismic exploration  
Seismic stratigraphy  
Vertical sections

Seismic profiling

USE: **Seismic exploration**

**Seismic propagation**

UF: Seismic wave propagation  
RT: Ray paths  
Seismic reflection  
Seismic refraction  
Seismic scattering  
Seismic waves

Seismic ray path

USE: **Ray paths**

Seismic records

USE: **Seismograms**

**Seismic reflection**

UF: Seismic wave reflection  
BT: Reflection  
RT: Seismic propagation  
Seismic reflection profiles  
Seismic reflection profiling  
Seismic scattering  
Seismic waves

Seismic reflection method

USE: **Seismic reflection profiling**

**Seismic reflection profiles**

BT: Seismic profiles  
RT: Seismic reflection  
Seismic reflection profiling

**Seismic reflection profiling**

UF: Seismic reflection method  
BT: Profiling  
Seismic exploration  
RT: Seismic reflection  
Seismic reflection profiles  
Sub-bottom profiling

**Seismic refraction**

UF: Seismic wave refraction  
BT: Refraction  
RT: Seismic propagation  
Seismic refraction profiles  
Seismic refraction profiling  
Seismic scattering

Seismic refraction method

USE: **Seismic refraction profiling**

**Seismic refraction profiles**

BT: Seismic profiles  
RT: Seismic refraction  
Seismic refraction profiling  
Seismic stratigraphy

**Seismic refraction profiling**

UF: Seismic refraction method  
BT: Profiling  
Seismic exploration  
RT: Seismic refraction  
Seismic refraction profiles

**Seismic ridges**

BT: Submarine ridges  
RT: Aseismic ridges  
Mid-ocean ridges

**Seismic scattering**

RT: Seismic propagation  
Seismic reflection  
Seismic refraction

Seismic sea waves

USE: **Tsunamis**

Seismic sections

USE: **Seismic profiles**

**Seismic stratigraphy**

UF: Acoustic stratigraphy  
BT: Stratigraphy  
RT: Seismic profiles  
Seismic refraction profiles

**Seismic tomography**

BT: Stratigraphy

**Seismic velocities**

UF: Wave velocity (seismic)  
BT: Velocity

NT: Compressional wave velocities  
 Shear wave velocities  
 RT: Low-velocity layer  
 Moho  
 Seismic discontinuities  
 Seismic layers  
 Seismic waves

Seismic wave propagation  
 USE: **Seismic propagation**

Seismic wave reflection  
 USE: **Seismic reflection**

Seismic wave refraction  
 USE: **Seismic refraction**

**Seismic waves**

UF: Earth waves  
 Earthquake waves  
 Long-period seismic waves  
 Waves (seismic)  
 BT: Elastic waves  
 NT: Body waves  
 Microseisms  
 Surface seismic waves  
 RT: Ray paths  
 Seismic activity  
 Seismic attenuation  
 Seismic propagation  
 Seismic reflection  
 Seismic velocities  
 Seismograms  
 Seismology  
 Wave properties

**Seismic zones**

BT: Earth structure  
 RT: Aseismic zones  
 Benioff zone  
 Seismic activity

Seismicity  
 USE: **Seismic activity**

**Seismograms**

UF: Seismic records  
 BT: Analog records  
 RT: Seismic waves  
 Seismometers

Seismographs  
 USE: **Seismometers**

**Seismology**

BT: Geophysics  
 RT: Earthquakes  
 Epicentres  
 Geomorphology  
 Ground motion  
 Seismic activity  
 Seismic exploration  
 Seismic waves  
 Seismometers  
 Tiltmeters

**Seismometers**

UF: Geophones  
 Seismographs  
 Strain seismometers  
 BT: Measuring devices  
 NT: Ocean bottom seismometers  
 RT: Accelerometers  
 Seismic equipment  
 Seismograms  
 Seismology

**Selected ships**

SN: Merchant vessels equipped to make basic meteorological and oceanographic observations  
 UF: Ships of opportunity  
 BT: Merchant ships  
 RT: Weather ships

Selection (biological)  
 USE: **Bioselection**

**Selective breeding**

BT: Breeding  
 RT: Aquaculture techniques  
 Domestic species  
 Feminization  
 Genetics  
 Gynogenesis  
 Hybrid culture  
 Hybrids  
 Intensive culture  
 Masculinization  
 Plant strains

**Selective feeding**

BT: Artificial feeding

**Selenium**

BT: Heavy metals  
 RT: Selenium compounds  
 Selenium isotopes

**Selenium compounds**

BT: Chemical compounds  
 RT: Selenium

**Selenium isotopes**

BT: Isotopes  
 RT: Selenium

**Self-propelled vehicles**

BT: Underwater vehicles  
 NT: Untethered vehicles  
 RT: Free-swimming vehicles  
 Seabed vehicles  
 Submersibles

**Self fertilization**

BT: Hermaphroditism  
 RT: Animal reproductive organs  
 Protandry  
 Sexual reproduction

Self pollination  
 USE: **Pollination**

**Self purification**

SN: Natural self purification of waters, sediments, organisms etc.  
 UF: Depuration  
 Pollution self-control  
 RT: Aeration  
 Aerobic bacteria  
 Biochemical oxygen demand  
 Water purification

**Semen**

BT: Secretory products  
 RT: Sperm

**Semi-enclosed seas**

BT: Marginal seas  
 RT: Embankments  
 Shelf seas

**Semidiurnal tides**

UF: Lunar semidiurnal tides  
 Solar semidiurnal tides  
 BT: Tides

Seminars

USE: **Conferences**

**Semisubmersible platforms**

SN: Towed or self-propelled structures partially submerged by flooding. Before 1982 search SEMISUBMERSIBLES  
 UF: Semisubmersibles (drilling platforms)  
 BT: Mobile platforms  
 RT: Anchoring  
 Submersible platforms

Semisubmersibles (drilling platforms)

USE: **Semisubmersible platforms**

Senescence

USE: **Biological aging**

**Sense functions**

NT: Audition  
 Hunger  
 Olfaction  
 Photoreception  
 Tactile functions  
 Taste functions  
 Vision  
 RT: Antennae  
 Chemoreception  
 Neurophysiology  
 Orientation behaviour  
 Sense organs  
 Stimuli

**Sense organs**

BT: Animal organs  
 NT: Auditory organs  
 Balance organs  
 Chemoreceptors  
 Lateral line

Mechanoreceptors  
 Olfactory organs  
 Photoreceptors  
 Sense tentacles  
 Tactile organs  
 Taste organs  
 RT: Central nervous system  
 Nervous tissues  
 Neurophysiology  
 Peripheral nervous system  
 Receptors  
 Sense functions

**Sense tentacles**

BT: Sense organs  
 Tentacles

**Sensible heat**

BT: Heat  
 RT: Heat conduction  
 Sensible heat transfer

Sensible heat flux

USE: **Sensible heat transfer**

**Sensible heat transfer**

SN: Sensible heat flux across air-water interface and air-ice interface  
 UF: Sensible heat flux  
 BT: Heat exchange  
 RT: Bowen ratio  
 Sensible heat

**Sensors**

UF: Probes (instruments)  
 Probes (sensors)  
 BT: Equipment  
 NT: Conductivity sensors  
 Current sensors  
 pH sensors  
 Pressure sensors  
 Towed sensors  
 Wave direction sensors  
 RT: Electronic equipment  
 Measuring devices  
 Oceanographic equipment  
 Radiometers  
 Recording equipment  
 Remote sensing equipment  
 Streamers  
 Test equipment

Sensory receptors

USE: **Receptors**

**Separation**

NT: Centrifugation  
 Chemical extraction  
 Chemical precipitation  
 Decantation  
 Desiccation  
 Gas oil separation  
 Gas water separation  
 Oil water separation  
 RT: Adsorption  
 Aeration

Animal oil extraction  
 Dehydration  
 Desalination  
 Diffusion  
 Dispersion  
 Drying  
 Electrophoresis  
 Gas processing  
 Separation processes  
 Turbulent entrainment  
 Water purification

**Separation processes**

SN: Before 1982 search also SEPARATION  
 NT: Demineralization  
 Dialysis  
 Dissolution  
 Distillation  
 Ion exchange  
 Leaching  
 Osmosis  
 Solvent extraction  
 RT: Oil treating  
 Separation

**Septicaemia**

UF: Bacterial haemorrhagic septicaemia  
 Septicemia  
 Viral haemorrhagic septicaemia  
 BT: Infectious diseases  
 RT: Fish diseases  
 Haematological diseases  
 Viral diseases

Septicemia

USE: **Septicaemia**

Sequence analysis

USE: **Sequencing**

**Sequence stratigraphy**

BT: Stratigraphy

**Sequencing**

SN: In genetics and biochemistry, to determine the primary structure of an unbranched biopolymer (e.g. DNA, RNA, Protein, Polysaccharide sequencing)  
 UF: Sequence analysis  
 BT: Genetic techniques  
 NT: DNA sequencing  
 Protein sequencing  
 RNA sequencing  
 RT: Biochemistry  
 DNA  
 Genetics  
 Nucleotide sequence  
 Proteins  
 RNA

**Serine**

BT: Amino acids

**Serological studies**

UF: Serology  
 RT: Antigens  
 Blood  
 Electrophoresis  
 Haematology  
 Immunology  
 Proteins  
 Serological taxonomy  
 Serum

**Serological taxonomy**

BT: Taxonomy  
 RT: Electrophoresis  
 Proteins  
 Serological studies  
 Serum

Serology

USE: **Serological studies**

**Serpentinite**

BT: Metamorphic rocks  
 RT: Serpentinization

Serpentinization

USE: **Serpentinization**

**Serpentinization**

SN: Geological metamorphic process involving heat and water in which low-silica mafic and ultramafic rocks are oxidized and hydrolyzed with water into serpentinite  
 UF: Serpentinization  
 RT: Hydrothermal alteration  
 Metasomatism  
 Serpentinite

**Serum**

BT: Body fluids  
 NT: Antibodies  
 RT: Haematology  
 Serological studies  
 Serological taxonomy

Serum albumins

USE: **Albumins**

Serum globulins

USE: **Globulins**

Sessile organisms

USE: **Sessile species**

**Sessile species**

UF: Sedentary organisms  
 Sessile organisms  
 BT: Species  
 RT: Benthos  
 Sedentary species  
 Substrata

**Seston**

BT: Aquatic communities  
 RT: Plankton  
 Suspended particulate matter



- Set lines  
USE: **Lines**
- Set nets  
USE: **Gillnets**
- Setae**  
SN: Slender, usually rigid bristles or hairs  
RT: Hair
- Settlement (biological)  
USE: **Biological settlement**
- Settlement (larvae)  
USE: **Larval settlement**
- Settlement (structural)**  
UF: Structural settlement  
RT: Compaction  
Failures  
Foundations  
Geological hazards  
Sediment stability  
Soil mechanics  
Structural engineering  
Structures
- Settling behaviour**  
BT: Behaviour  
RT: Algal settlements  
Artificial substrata  
Biological settlement  
Colonization  
Larval settlement  
Substrata
- Settling rate**  
UF: Settling velocity  
Sinking rate  
BT: Velocity  
RT: Particle motion  
Particle settling  
Particulate flux  
Stokes law
- Settling velocity  
USE: **Settling rate**
- Setup (wind)  
USE: **Wind setup**
- Sewage**  
SN: Before 1982 search also SEWAGE EFFLUENTS  
UF: Sewage effluents  
BT: Wastes  
RT: Coliforms  
Domestic wastes  
Drainage water  
Effluents  
Faeces  
Industrial wastes  
Organic wastes  
Outfalls  
Pharmaceutical pollution
- Sewage disposal  
Sewage ponds  
Sewage treatment  
Sludge  
Waste water
- Sewage disposal**  
UF: Sewage sludge disposal  
BT: Waste disposal  
RT: Faecal pollution  
Pharmaceutical pollution  
Sanitary engineering  
Sewage  
Sewage ponds  
Sewage treatment  
Urban watersheds
- Sewage effluents  
USE: **Sewage**
- Sewage outfalls  
USE: **Outfalls**
- Sewage oxidation ponds  
USE: **Sewage ponds**
- Sewage ponds**  
UF: Oxidation lagoons  
Sewage oxidation ponds  
BT: Ponds  
RT: Sanitary engineering  
Sewage  
Sewage disposal  
Sewage treatment  
Sludge  
Waste disposal
- Sewage sludge disposal  
USE: **Sewage disposal**
- Sewage tanks  
USE: **Sewage treatment**
- Sewage treatment**  
UF: Sewage tanks  
BT: Waste treatment  
NT: Bioaeration  
RT: Aeration  
Biodegradation  
Biological treatment  
Chemical degradation  
Chlorination  
Dechlorination  
Flocculation  
Pharmaceutical pollution  
Sanitary engineering  
Sewage  
Sewage disposal  
Sewage ponds  
Sludge treatment  
Wastewater treatment  
Water filtration
- Sewersheds  
USE: **Urban watersheds**
- Sex**  
RT: Gender  
Sex characters  
Sex determination  
Sex hormones  
Sex ratio  
Sex reversal  
Sexual behaviour  
Sexual reproduction  
Sexual selection
- Sex characteristics  
USE: **Sex characters**
- Sex characters**  
UF: Sex characteristics  
Sex differences  
Sexual differences  
NT: Secondary sexual characters  
RT: Animal reproductive organs  
Masculinization  
Oestrogen  
Sex  
Testosterone
- Sex composition  
USE: **Sex ratio**
- Sex determination**  
SN: Physiological mechanisms determining sex  
RT: Chromosomes  
Feminization  
Hermaphroditism  
Masculinization  
Oestrogen  
Sex  
Sex hormones  
Sex reversal  
Sexual dimorphism  
Testosterone
- Sex differences  
USE: **Sex characters**
- Sex dimorphism  
USE: **Sexual dimorphism**
- Sex hormones**  
SN: Any hormone having a morphological or physiological effect upon the reproductive organs, secondary sex characters or sexual behaviour  
UF: Androgens  
Gonad hormones  
Gonadotropic hormones  
BT: Hormones  
NT: Oestrogen  
Testosterone  
RT: Feminization  
Masculinization  
Sex  
Sex determination  
Sexual behaviour

**Sex ratio**

UF: Sex composition  
BT: Population structure  
RT: Sex

**Sex reversal**

RT: Animal reproductive organs  
Feminization  
Masculinization  
Sex  
Sex determination

**Sexual behaviour**

BT: Behaviour  
RT: Ornamentation  
Reproductive behaviour  
Sex  
Sex hormones  
Sexual reproduction

**Sexual cells**

BT: Cells  
NT: Eggs  
Gametes  
Sperm  
RT: Biological fertilization  
Genomes  
Oogenesis  
Polyspermy  
Sexual reproduction  
Zygotes

Sexual differences

USE: **Sex characters**

**Sexual dimorphism**

UF: Dimorphism (sexual)  
Sex dimorphism  
RT: Biopolymorphism  
Organism morphology  
Secondary sexual characters  
Sex determination  
Sexual maturity  
Sexual selection

Sexual glands

USE: **Animal reproductive organs**

**Sexual isolation**

UF: Isolation (sexual)  
Reproductive isolation  
BT: Isolating mechanisms  
RT: Breeding seasons  
Sexual selection

**Sexual maturity**

UF: Maturation  
BT: Biological properties  
RT: Adults  
Breeding  
Fecundity  
Gametogenesis  
Gonadosomatic index  
Immunocontraception  
Life cycle  
Ovulation

Sexual dimorphism  
Sexual reproduction  
Spermatophores

**Sexual reproduction**

SN: Natural or artificial sexual reproduction  
BT: Reproduction  
NT: Biological fertilization  
Gynogenesis  
Parturition  
RT: Animal reproductive organs  
Breeding  
Conjugation  
Immunocontraception  
Oviparity  
Ovoviviparity  
Ovulation  
Pollination  
Polyspermy  
Pregnancy  
Self fertilization  
Sex  
Sexual behaviour  
Sexual cells  
Sexual maturity  
Spawning  
Spermatophores  
Viviparity

**Sexual selection**

BT: Bioselection  
RT: Ornamentation  
Sex  
Sexual dimorphism  
Sexual isolation

**Shading**

SN: Provision of shade, e.g. by plant cover  
RT: Canopies  
Plant utilization

**Shale**

BT: Clastics  
Sedimentary rocks  
NT: Oil shale  
RT: Lutites

Shallow-sea fronts

USE: **Tidal fronts**

**Shallow water**

BT: Water  
RT: Continental shelves  
Deep water  
Lagoons  
Littoral zone  
Marshes  
Reefs  
Shallow water tides  
Shallow water waves  
Shelf dynamics  
Shelf seas  
Shoals  
Surface water  
Swamps

Water depth  
Wave refraction

Shallow water dynamics

USE: **Shelf dynamics**

**Shallow water tides**

BT: Tides  
RT: Estuarine tides  
Shallow water  
Tide-surge interaction

**Shallow water waves**

UF: Long-period water waves  
Long-period waves  
Long gravity waves  
Long waves  
BT: Water waves  
NT: Cnoidal waves  
Solitary waves  
Tidal bores  
RT: Nonlinear waves  
Shallow water  
Storm surges  
Tidal waves  
Tsunamis  
Wave scouring

**Shape**

UF: Configuration  
NT: Grain shape  
RT: Contours  
Deformation  
Dimensions  
Morphometry  
Size

**Shaped charges**

BT: Explosives

Shared fishery resources

USE: **Shared stocks**

Shared resources

USE: **Common property resources**

**Shared stocks**

SN: Stocks of associated species occurring within the EEZ of two or more coastal states  
UF: Shared fishery resources  
Transboundary stocks  
BT: Stocks  
RT: Allocation systems  
Exclusive economic zone  
United Nations Fish Stock Agreement

**Shark attacks**

BT: Diving hazards

**Shark fisheries**

UF: Chimaeras fisheries  
Rays fisheries  
Skates fisheries  
BT: Finfish fisheries

- Shark repellents  
USE: **Fish repellents**
- Shark utilization**  
BT: Fish utilization
- Shear**  
NT: Current shear  
Vertical shear  
Wind shear  
RT: Dynamic viscosity  
Shear flow  
Shear modulus  
Shear strength  
Shear stress
- Shear flow**  
BT: Fluid flow  
NT: Stratified shear flow  
Turbulent shear flow  
RT: Dynamic viscosity  
Mixing length  
Richardson number  
Shear  
Wave interactions
- Shear flow instability  
USE: **Kelvin-Helmholtz instability**
- Shear instability  
USE: **Kelvin-Helmholtz instability**
- Shear modulus**  
UF: Rigidity modulus  
BT: Elastic constants  
RT: Bulk modulus  
Elasticity  
Shear
- Shear probes  
USE: **Profilers**
- Shear strength**  
BT: Strength  
RT: Bearing capacity  
Cohesive sediments  
Pore pressure  
Shear  
Slope stability  
Strain  
Stress (mechanics)  
Tensile strength  
Vane devices  
Vane shear testing
- Shear stress**  
UF: Shearing stress  
Tangential stresses  
BT: Stress (mechanics)  
RT: Bottom stress  
Couette flow  
Dynamic viscosity  
Reynolds stresses  
Shear
- Torque  
Wind stress
- Shear wave velocities**  
BT: Seismic velocities  
RT: S-waves
- Shear waves  
USE: **S-waves**
- Shear zone**  
RT: Fault zones
- Shearing stress  
USE: **Shear stress**
- Shelf break fronts  
USE: **Shelf edge fronts**
- Shelf circulation  
USE: **Shelf dynamics**
- Shelf currents**  
BT: Water currents  
RT: Ocean currents  
Shelf dynamics  
Shelf waves
- Shelf dynamics**  
UF: Coastal circulation  
Shallow water dynamics  
Shelf circulation  
BT: Water circulation  
NT: Bay dynamics  
Estuarine dynamics  
Fjord dynamics  
Nearshore dynamics  
Shelf edge dynamics  
RT: Coastal countercurrents  
Coastal jets  
Coastal oceanography  
Coastal upwelling  
Coastal waters  
Continental shelves  
Dynamical oceanography  
Shallow water  
Shelf edge fronts  
Shelf currents  
Shelf edge fronts  
Shelf seas  
Shelf waves  
Tidal mixing
- Shelf edge**  
UF: Continental shelf break  
Continental shelf edge  
BT: Submarine features  
RT: Continental shelves  
Continental slope  
Shelf edge fronts  
Shelf edge dynamics  
Shelf edge fronts  
Shelf seas
- Shelf edge dynamics**  
BT: Shelf dynamics  
RT: Shelf edge
- Slope processes
- Shelf edge fronts**  
SN: Formed at the edge of continental shelves  
UF: Shelf break fronts  
BT: Coastal fronts  
RT: Continental shelves  
Shelf dynamics  
Shelf edge
- Shelf facies**  
BT: Facies  
RT: Shelf seas  
Shelf sedimentation
- Shelf fronts  
USE: **Tidal fronts**
- Shelf geology**  
BT: Marine geology  
RT: Bed load  
Continental shelves  
Shelf seas  
Shelf sedimentation
- Shelf life  
USE: **Storage life**
- Shelf seas**  
BT: Marginal seas  
RT: Bottom currents  
Continental shelves  
Semi-enclosed seas  
Shallow water  
Shelf dynamics  
Shelf edge  
Shelf facies  
Shelf geology  
Shelf sedimentation
- Shelf sedimentation**  
BT: Sedimentation  
RT: Bed load  
Continental shelves  
Sedimentary environments  
Shelf facies  
Shelf geology  
Shelf seas  
Tidal deposits
- Shelf waves**  
BT: Trapped waves  
RT: Shelf currents  
Shelf dynamics
- Shellfish**  
SN: Common category which includes shelled molluscs, crustaceans and echinoderms especially those used as human food  
BT: Aquatic invertebrates  
RT: Allergens  
Aquatic animals  
Aquatic crustaceans  
Aquatic mollusks

## ASFA THESAURUS

- Brackishwater crustaceans  
 Brackishwater molluscs  
 Fish  
 Freshwater crustaceans  
 Freshwater molluscs  
 Marine crustaceans  
 Marine molluscs  
 Seafood  
 Shellfish catch statistics  
 Shellfish culture  
 Shells
- Shellfish catch statistics**  
 SN: Catch tabulation in number or weight of shellfish species  
 BT: Catch statistics  
 RT: By catch  
 Shellfish  
 Shellfish fisheries
- Shellfish culture**  
 BT: Cultures  
 NT: Crustacean culture  
 Mollusc culture  
 RT: Aquaculture  
 Bottom culture  
 Brackishwater aquaculture  
 Freshwater aquaculture  
 Intensive culture  
 Marine aquaculture  
 Off-bottom culture  
 Shellfish  
 Shellfish fisheries  
 Thermal aquaculture
- Shellfish diseases  
 USE: **Fish diseases**
- Shellfish fisheries**  
 BT: Fisheries  
 NT: Crustacean fisheries  
 Echinoderm fisheries  
 Mollusc fisheries  
 RT: Marine fisheries  
 Shellfish catch statistics  
 Shellfish culture
- Shellfish nutrition  
 USE: **Animal nutrition**
- Shellfish poisoning (catching method)  
 USE: **Fish poisoning**
- Shellfish poisoning (diarrhetic)  
 USE: **Diarrhetic shellfish poisoning**
- Shellfish poisoning (paralytic)  
 USE: **Paralytic shellfish poisoning**
- Shells**  
 SN: Description and composition of exoskeletons of different shellfish species and their use as commercial products
- UF: Seashells  
 BT: Animal products  
 RT: Calcification  
 Conchology  
 Decalcification  
 Exoskeleton  
 Malacology  
 Mantle  
 Oozes  
 Shellfish
- Sheltered environments  
 USE: **Sheltered habitats**
- Sheltered habitats**  
 UF: Sheltered environments  
 BT: Habitat  
 RT: Ecological zonation  
 Exposed habitats  
 Exposure tolerance  
 Shelters
- Shelters**  
 SN: Natural or artificial underwater shelters made for improvement of the habitat or for fishing purposes  
 UF: Artificial shelters  
 Underwater shelters  
 RT: Artificial reefs  
 Artificial spawning grounds  
 Habitat improvement (physical)  
 Sheltered habitats
- Shingle**  
 BT: Clastics  
 RT: Beach ridges  
 Pebbles
- Shingle beaches  
 USE: **Beaches**
- Ship anchors  
 USE: **Anchors**
- Ship ballast water  
 USE: **Ballast**
- Ship behaviour  
 USE: **Ship motion**
- Ship building  
 USE: **Ship technology**
- Ship canals**  
 UF: Navigation canals  
 BT: Canals  
 RT: Harbours  
 Interocean canals  
 Navigational channels  
 Shipping
- Ship conversion**  
 RT: Drydocks  
 Ship design  
 Ship performance  
 Ship technology
- Ships  
 Shipyards
- Ship design**  
 BT: Design  
 RT: New vessels  
 Ship conversion  
 Ship hulls  
 Ship models  
 Ship performance  
 Ship technology
- Ship drift**  
 UF: Drift (ships)  
 BT: Drift  
 RT: Dead reckoning  
 Lagrangian current measurement  
 Station keeping
- Ship fittings  
 USE: **Shipboard equipment**
- Ship handling**  
 BT: Handling  
 RT: Manoeuvrability  
 Navigation  
 Seamanship
- Ship hulls**  
 BT: Hulls  
 RT: Catamarans  
 Ship design  
 Ship technology
- Ship losses**  
 RT: Capsizing  
 Collisions  
 Fire  
 Groundings  
 Wrecks
- Ship models**  
 BT: Scale models  
 RT: Ship design  
 Ship technology  
 Ships
- Ship mooring systems**  
 SN: To include systems for fixed and mobile platforms  
 BT: Mooring systems  
 NT: Single point moorings  
 RT: Berthing  
 Fenders  
 Positioning systems  
 Ships
- Ship motion**  
 UF: Seakeeping  
 Ship behaviour  
 BT: Motion  
 NT: Capsizing  
 Heaving  
 Pitching  
 Righting  
 Rolling

- Surging
  - Swaying
  - Yawing
  - RT: Buoy motion
  - Sea sickness
  - Ship stability
  - Ship technology
  - Ships
  - Stabilizers
  - Wakes
  - Wave action
  - Wave damping
  - Wave effects
  - Wave forces
- Ship performance**
- RT: Ship conversion
  - Ship design
  - Ship speed
  - Ship stability
  - Ship technology
  - Ships
- Ship routeing**
- UF: Weather routeing
  - NT: Ice routeing
  - RT: Navigation
    - Wave forecasting
    - Weather forecasting
- Ship speed**
- BT: Velocity
  - RT: Ship performance
  - Wakes
- Ship stability**
- BT: Stability
  - RT: Capsizing
    - Righting
    - Ship motion
    - Ship performance
    - Ship technology
    - Ships
    - Stabilizers
- Ship technology**
- SN: Restrict use to publications concerned with general aspects of the design and construction of vessels and propulsion systems. Before 1982 search SHIPBUILDING, MARINE ENGINEERING and NAVAL ARCHITECTURE
  - UF: Boat building
    - Marine engineering
    - Naval architecture
    - Naval engineering
    - Naval technology
    - Ship building
    - Shipbuilding
  - BT: Technology
  - RT: Drydocks
    - New vessels
    - Propulsion systems
    - Ship conversion
    - Ship design
- Ship hulls
  - Ship models
  - Ship motion
  - Ship performance
  - Ship stability
  - Ships
  - Shipyards
  - Steering systems
  - Towed body design
  - Underwater vehicles
- Ship wastes
- USE: **Vessel wastes**
- Shipboard analysis**
- SN: Use for analysis aboard research vessels
  - BT: Water analysis
- Shipboard computers
- USE: **Computers**
- Shipboard equipment**
- UF: Marine fittings
    - Ship fittings
  - BT: Equipment
  - RT: Diesel engines
    - Propulsion systems
    - Thrusters
- Shipborne wave recorders
- USE: **Wave recorders**
- Shipbuilding
- USE: **Ship technology**
- Shipping**
- SN: Use only as a collective term in the context of transportation, navigation, traffic on high seas, trade, commerce, maritime law, etc.
  - RT: Cargo handling
    - Cargoes
    - Marine transportation
    - Navigation regulations
    - Port operations
    - Ship canals
    - Shipping lanes
    - Ships
    - Traffic management
- Shipping lanes**
- SN: Routes used by merchant vessels
  - RT: Marine transportation
    - Shipping
    - Traffic management
- Shipping noise**
- BT: Ambient noise
  - RT: Surface noise
- Shipping rules
- USE: **Navigation regulations**
- Ships**
- SN: Use of a more specific term is recommended. See also SURFACE CRAFT
  - BT: Surface craft
  - NT: Cable ships
    - Ice breakers
    - Lightships
    - Merchant ships
    - Sailing ships
    - Supply boats
    - Support ships
    - Tugs
    - Weather ships
  - RT: Ship conversion
    - Ship models
    - Ship mooring systems
    - Ship motion
    - Ship performance
    - Ship stability
    - Ship technology
    - Shipping
    - Shipyards
- Ships logbooks
- USE: **Logbooks**
- Ships of opportunity
- USE: **Selected ships**
- Shipyards**
- RT: Antifouling substances
    - Corrosion control
    - Drydocks
    - Maintenance and repair
    - New vessels
    - Pollution sources
    - Ship conversion
    - Ship technology
    - Ships
- Shoaling**
- RT: Beach cusps
    - Sediment transport
    - Shoals
    - Waves on beaches
- Shoaling waves**
- RT: Beach cusps
    - Breaking waves
    - Rollers
    - Shoals
    - Waves on beaches
- Shoals**
- SN: Submerged ridges, banks, bars and reefs constituting a danger for navigation
  - UF: Reefs (navigational hazard)
  - BT: Submarine features
  - RT: Groundings
    - Navigational hazards
    - Reefs
    - Sand banks
    - Sand bars
    - Shallow water
    - Shoaling
    - Shoaling waves
    - Submarine banks

**Shoots**

BT: Plant organs

**Shore protection**

UF: Coast protection  
Protection (coastal)  
BT: Coastal zone management  
Environmental protection  
RT: Beach erosion  
Coast defences  
Coastal engineering  
Coastal erosion  
Coastal structures  
Lake reclamation

Shore stations

USE: **Inshore stations**

Shore whaling

USE: **Artisanal whaling**

Shoreline erosion

USE: **Coastal erosion**

Shoreline features

USE: **Coastal landforms**

Shorelines

USE: **Coasts**

**Short-crested waves**

BT: Surface water waves  
RT: Directional spectra  
Long-crested waves  
Wave crests  
Wave direction

**Short-term changes**

BT: Temporal variations  
RT: Long-term changes  
Prediction  
Short-term records

**Short-term planning**

BT: Planning  
RT: Long-term planning

**Short-term records**

BT: Records  
RT: Short-term changes

**Short wave-long wave interactions**

UF: Long wave-short wave interactions  
BT: Wave-wave interaction  
RT: Surface water waves

Short wave radiation

USE: **Solar radiation**

**Shrimp culture**

SN: Before 1982 search  
CRUSTACEAN CULTURE  
UF: Marine shrimp culture  
Saltwater shrimp culture  
Shrimp farming

BT: Crustacean culture

RT: Mass culture  
Polyculture  
Pond culture

Shrimp farming

USE: **Shrimp culture**

**Shrimp fisheries**

UF: Cangronid fisheries  
Caridean shrimp fisheries  
Non penaeid shrimp fisheries  
Palaemonid fisheries  
Pandalid fisheries  
Penaeid shrimp fisheries  
Prawn fisheries

BT: Crustacean fisheries

RT: Lagoon fisheries

Shrimp spoilage

Shrimp nutrition

USE: **Animal nutrition**

**Shrimp spoilage**

RT: Fish spoilage  
Processing fishery products  
Quality control  
Shrimp fisheries

**Sial**

UF: Granitic layer  
BT: Earth crust  
RT: Continental crust  
Sima

**Sibling species**

BT: Species  
RT: Evolution  
Genetics

Sickness

USE: **Human diseases**

Side fillets

USE: **Fish fillets**

**Side scan sonar**

BT: Active sonar  
RT: Gloria  
Sonographs

**Siderite**

BT: Carbonate minerals

**Sigma-T**

BT: Water density  
RT: Atmospheric pressure  
In situ density  
In situ temperature  
Potential density  
Salinity

**Signal-to-noise ratio**

BT: Ratios  
RT: Attenuation  
Electronic noise

**Signal processing**

BT: Data processing  
RT: Fourier analysis  
Spectral analysis  
Telemetry

**Significant wave height**

BT: Wave height  
RT: Significant waves  
Wave forecasting

**Significant waves**

BT: Surface water waves  
RT: Significant wave height  
Wave height  
Wave period

Silage from fish

USE: **Fish silage**

**Silica**

UF: Silicon dioxide  
BT: Silicon compounds  
RT: Cherts  
Cristobalite  
Siliceous ooze  
Tholeiite

**Silicate minerals**

BT: Minerals  
NT: Amphiboles  
Andalusite  
Clay minerals  
Feldspars  
Garnet  
Kyanite  
Micas  
Olivine  
Opal  
Pyroxenes  
Quartz  
Quartzite  
Titanite  
Tourmaline  
Zeolites  
Zircon  
RT: Silicates

**Silicates**

BT: Silicon compounds  
NT: Iron silicates  
Magnesium silicates  
RT: Non-conservative properties  
Nutrients (mineral)  
Sand  
Silicate minerals  
Silicic acid  
Silicon

**Siliceous ooze**

UF: Ooze (siliceous)  
BT: Oozes  
NT: Diatom ooze  
Radiolarian ooze  
RT: Silica  
Siliceous sediments

**Siliceous rocks**

BT: Rocks  
 NT: Cherts  
     Diatomites  
     Porcellanite  
     Radiolarite  
 RT: Sandstone  
     Sedimentary rocks  
     Siliceous sediments

**Siliceous sediments**

BT: Biogenic deposits  
 RT: Chemical sediments  
     Pelagic sediments  
     Siliceous ooze  
     Siliceous rocks

**Silicic acid**

BT: Inorganic acids  
 RT: Silicates  
     Silicon compounds

**Silicification**

RT: Chertification  
     Diagenesis  
     Metasomatism

**Silicon**

BT: Nonmetals  
 RT: Silicates  
     Silicon compounds  
     Silicon cycle  
     Silicon isotopes

**Silicon compounds**

BT: Chemical compounds  
 NT: Silica  
     Silicates  
 RT: Aluminium compounds  
     Silicic acid  
     Silicon  
     Silicon cycle

**Silicon cycle**

BT: Nutrient cycles  
 RT: Silicon  
     Silicon compounds

Silicon dioxide

USE: **Silica**

**Silicon isotopes**

BT: Isotopes  
 RT: Silicon

**Sill depth**

BT: Depth  
 RT: Fjords  
     Sills

**Sills**

BT: Submarine features  
 RT: Fjords  
     Sill depth  
     Submarine ridges

**Silo culture**

BT: Aquaculture techniques  
 RT: Fish culture  
     Intensive culture

**Silt**

BT: Clastics  
 RT: Cohesionless sediments  
     Lutites  
     Mud  
     Sand  
     Silt meters  
     Siltting  
     Siltstone

**Silt meters**

RT: Sediment traps  
     Silt

Siltation

USE: **Siltting**

**Siltting**

UF: Siltation  
 RT: Sedimentation  
     Silt

**Siltstone**

BT: Clastics  
     Sedimentary rocks  
 RT: Lutites  
     Mudstone  
     Silt  
     Slates

**Silurian**

SN: Before 1982 search  
     SILURIAN PERIOD  
 BT: Palaeozoic

**Silver**

BT: Heavy metals  
     Transition elements  
 RT: Ferromanganese nodules  
     Metalliferous sediments  
     Silver compounds  
     Silver isotopes

**Silver compounds**

BT: Chemical compounds  
 RT: Silver

**Silver isotopes**

BT: Isotopes  
 RT: Silver

**Sima**

UF: Basaltic layer  
 BT: Earth crust  
 RT: Oceanic crust  
     Sial

Similarity index

USE: **Species diversity**

**Simulation**

RT: Game theory

Geostatistics  
 Modelling  
 Operations research  
 Prediction  
 Simulators  
 System analysis

**Simulators**

RT: Models  
     Simulation  
     Training aids

Single anchor leg mooring

USE: **Single point moorings**

Single cell culture

USE: **Phytoplankton culture**

**Single cell proteins**

UF: ASCP  
     SCP  
 BT: Proteins  
 RT: Bacteria  
     Yeasts

**Single point moorings**

SN: Restricted to ships  
 UF: Single anchor leg mooring  
 BT: Ship mooring systems  
 RT: Articulated columns  
     Loading buoys

**Sinking**

RT: Collisions  
     Suspended particulate matter

Sinking rate

USE: **Settling rate**

Sinusoidal waves

USE: **Linear waves**

Site evaluation

USE: **Site selection**

Site exploration

USE: **Site surveys**

Site investigation

USE: **Site surveys**

**Site selection**

SN: Site selection and evaluation  
     for aquaculture purposes, siting  
     of power plants, fishing  
     harbours etc.  
 UF: Aquaculture sites  
     Site evaluation  
 BT: Evaluation  
 RT: Site surveys

**Site surveys**

SN: Before 1986 search also SITE  
     INVESTIGATION  
 UF: Site exploration  
     Site investigation  
 BT: Surveys

- RT: Geological surveys  
Geophysical surveys  
Hydrographic surveys  
Oceanographic surveys  
Site selection  
Surveying underwater
- Sitosterols  
USE: **Sterols**
- Size**  
BT: Dimensions  
NT: Grain size  
Particle size  
RT: Area  
Capacity  
Shape  
Size distribution  
Volume
- Size-at-age**  
SN: Length or weight at a particular age  
BT: Population structure
- Size-at-first-maturity**  
SN: Length or weight of the fish when it attains maturity  
BT: Population structure
- Size-limit regulations**  
BT: Fishery regulations  
RT: Mesh regulations
- Size-weight relationships  
USE: **Length-weight relationships**
- Size composition  
USE: **Size distribution**
- Size distribution**  
SN: Length and weight frequencies  
UF: Size composition  
BT: Population structure  
RT: Age composition  
Length-weight relationships  
Size
- Size grading (organisms)**  
SN: Before 2016 search  
GRADING + SIZE  
BT: Biological grading
- Size selectivity  
USE: **Mesh selectivity**
- Skates fisheries  
USE: **Shark fisheries**
- Skeleton**  
BT: Anatomical structures  
Musculoskeletal system  
NT: Endoskeleton  
Exoskeleton  
RT: Cartilage  
Osteology
- Skewness**  
RT: Coefficients  
Kurtosis  
Statistical analysis
- Skid mounted units  
USE: **Modules**
- Skimmers (oil removal)  
USE: **Oil removal**
- Skin**  
UF: Ectoderm  
Epidermis  
NT: Fish skin  
RT: Body walls  
Epithelia
- Skin diving  
USE: **Scuba diving**
- Skin temperature  
USE: **Surface radiation temperature**
- Skipjack tuna fisheries  
USE: **Tuna fisheries**
- Skull**  
BT: Bones  
RT: Brain  
Head  
Otoliths
- Sky radiation  
USE: **Solar radiation**
- Slamming  
USE: **Wave forces**
- Slates**  
RT: Argillaceous deposits  
Chlorite  
Metamorphic rocks  
Micas  
Mudstone  
Sedimentary rocks  
Siltstone
- Slaughter**  
RT: Mortality causes
- Slave labor  
USE: **Human trafficking**
- Slave labour  
USE: **Human trafficking**
- Sleep**  
RT: Hibernation  
Resting stages
- Slicks**  
NT: Oil slicks  
Windrows  
RT: Surface films
- Slicks (oil)  
USE: **Oil slicks**
- Slicks (surface)  
USE: **Surface films**
- Slides**  
BT: Mass movement  
NT: Avalanches  
Landslides  
RT: Creep  
Slumping
- Slides (photographic)**  
BT: Audiovisual materials  
RT: Filmstrips  
Graphics
- Sliding  
USE: **Slumping**
- Slimicides  
USE: **Fungicides**
- Slope currents**  
BT: Water currents
- Slope environment**  
RT: Continental slope
- Slope indicators**  
UF: Inclinometers  
BT: Measuring devices  
NT: Tiltmeters  
RT: Slopes (topography)
- Slope processes**  
RT: Cascading  
Shelf edge dynamics
- Slope stability**  
UF: Soil stability  
BT: Stability  
RT: Creep  
Landslides  
Mass movement  
Sediment stability  
Shear strength  
Slopes (topography)  
Slump structures  
Slumping  
Soil mechanics
- Slope water**  
BT: Water masses
- Slopes (topography)**  
NT: Beach slope  
Island slope  
RT: Continental slope  
Gradients  
Slope indicators  
Slope stability  
Topographic features



**Sludge**

UF: Activated sludge  
 Sludge (wastes)  
 BT: Wastes  
 RT: Mud  
 Organic wastes  
 Sewage  
 Sewage ponds  
 Sludge treatment

Sludge (drilling fluids)  
 USE: **Drilling fluids**

Sludge (ice)  
 USE: **Ice**

Sludge (wastes)  
 USE: **Sludge**

**Sludge treatment**

BT: Waste treatment  
 RT: Aeration  
 Biodegradation  
 Chemical degradation  
 Decantation  
 Sanitary engineering  
 Sewage treatment  
 Sludge  
 Water filtration

**Slump structures**

UF: Slumps  
 BT: Sedimentary structures  
 RT: Olistostromes  
 Slope stability  
 Slumping

**Slumping**

UF: Sliding  
 BT: Mass gravity transport (sediments)  
 RT: Continental slope  
 Creep  
 Earthquakes  
 Erosion  
 Flow structures  
 Fluidization  
 Geological hazards  
 Slides  
 Slope stability  
 Slump structures

Slumps  
 USE: **Slump structures**

**Slurries**

RT: Mud  
 Pumping  
 Suspension

Small-scale fish farming  
 USE: **Small scale aquaculture**

**Small scale aquaculture**

SN: Aquaculture system with a small annual production (max one tonne per unit and 10 tonnes

total), made of one or more small production units; family or communally run; low to moderate input levels and limited external labour. Own food supply may be a motive

UF: Artisanal aquaculture  
 Small-scale fish farming  
 Subsistence aquaculture  
 BT: Aquaculture  
 RT: Aquaculture techniques  
 Artisanal fisheries  
 Fish ponds

Small scale fishing  
 USE: **Artisanal fishing**

**Smectite**

BT: Clay minerals

**Smoke**

RT: Air pollution  
 Atmospheric particulates  
 Fire

Smoked products  
 USE: **Cured products**

Smoking  
 USE: **Curing**

**Smolts**

BT: Juveniles

Smooth muscles  
 USE: **Muscles**

**Smuggling**

SN: To move (someone or something) from one country into another illegally and secretly  
 RT: Fishery products  
 Piracy  
 Surveillance and enforcement  
 Trade

**Snapper culture**

SN: Before 2016 search FISH CULTURE + species name  
 BT: Fish culture

Snapper fisheries  
 USE: **Percoid fisheries**

**Snow**

BT: Atmospheric precipitations  
 RT: Hail  
 Ice  
 Rain  
 Rainfall

Snow avalanches  
 USE: **Avalanches**

Snow crab fisheries  
 USE: **Crab fisheries**

**Snowmelt**

SN: Surface runoff produced from melting snow. Also the period or season during which such runoff is produced  
 RT: Ice melting  
 Melt water  
 Melting  
 Runoff

Snowslides  
 USE: **Avalanches**

**Soaps**

BT: Detergents  
 RT: Domestic wastes  
 Surfactants  
 Water hardness

Social aspects  
 USE: **Sociological aspects**

**Social behaviour**

BT: Behaviour  
 NT: Schooling behaviour  
 RT: Dominance hierarchies  
 Ecological aggregations  
 Group effects

Social hierarchy  
 USE: **Dominance hierarchies**

**Social media**

SN: Social media are computer-mediated tools that allow people or companies to create, share, or exchange information  
 BT: Communication systems  
 RT: Imagery  
 Information handling  
 Information systems  
 Internet  
 Telephone systems

Societies  
 USE: **Organizations**

**Socioeconomic aspects**

RT: Bioeconomics  
 Case studies  
 Famine  
 Food insecurity  
 Food security  
 Globalization  
 Poverty alleviation  
 Sociological aspects  
 Spatial planning  
 Subsidies

**Sociological aspects**

UF: Social aspects  
 Sociology  
 RT: Demography  
 Socioeconomic aspects

Sociology

USE: **Sociological aspects**

**Sodar**

UF: Acoustic surveys  
(atmosphere)

SONic Detection And  
Rangefinding

RT: Acoustic imagery

Lidar

Meteorological instruments

Remote sensing equipment

**Sodium**

BT: Alkali metals

RT: Sodium compounds

Sodium isotopes

**Sodium chloride**

UF: Common salt

BT: Chlorides

Sodium compounds

RT: Evaporites

**Sodium compounds**

BT: Alkali metal compounds

NT: Sodium chloride

RT: Dissolved salts

Sodium

**Sodium isotopes**

BT: Isotopes

RT: Sodium

**Sofar**

UF: Sound Fixing And  
Rangefinding

BT: Position fixing

RT: Sofar floats

Sound channels

**Sofar floats**

BT: Swallow floats

RT: Sofar

**Soft bottom habitats**

BT: Habitat

RT: Benthic environment

Benthos

Hard bottom habitats

Sediment properties

Substrata

**Soft law**

SN: Law without legally binding components. Obligations which create the expectation that they will be used to avoid or resolve disputes. Before 2016 search INTERNATIONAL LAW + FISHERY AGREEMENTS

BT: Legislation

RT: Fishery agreements

Fishery disputes

International law

Soft roe

USE: **Roes**

**Soil algae**

SN: Before 2016 search also

SOILS + ALGAE as a taxonomic descriptor

UF: Algae (soil)

BT: Algae

RT: Alginidies

Algology

Soils

**Soil conservation**

BT: Conservation

RT: Erosion control

Soil erosion

Soil salinization

Soils

**Soil erosion**

BT: Erosion

RT: Soil conservation

Soils

Wind erosion

**Soil mechanics**

BT: Mechanics

RT: Cohesive sediments

Compaction

Consolidation

Creep

Elastic constants

Elasticity

Geotechnology

Penetration depth

Rock mechanics

Sediment drifts

Sediment properties

Sediment stability

Settlement (structural)

Slope stability

Soils

Stress-strain relations

Trenching

Void ratio

Soil properties

USE: **Sediment properties**

Soil salinisation

USE: **Soil salinization**

**Soil salinization**

SN: The accumulation of soluble salts at the surface or at some point below the surface of the soil profile to levels that have negative effects on plant growth and/or on soils. Before 2016 search SALINIZATION

UF: Salinization (soil)

Soil salinisation

BT: Salinization

RT: Environmental impact

Salinity

Soil conservation

Soils

Soil sampling

USE: **Sediment sampling**

Soil stability

USE: **Slope stability**

Soil water table

USE: **Water table**

**Soils**

UF: Earth (soil)

RT: Gravel

Humus

Mud

Sand

Sediments

Soil algae

Soil conservation

Soil erosion

Soil mechanics

Soil salinization

**Solar-terrestrial activity**

UF: Extraterrestrial interactions

RT: Climatic changes

Sea level changes

Solar activity

Solar radiation

Sun

Teleconnections

Temperature anomalies

**Solar activity**

UF: Sunspots

RT: Astronomy

Solar-terrestrial activity

Solar constant

Solar radiation

Sun

**Solar cells**

BT: Electric power sources

RT: Solar power

Solar radiation

Sun

**Solar constant**

BT: Constants

RT: Climatic changes

Solar activity

Solar radiation

Sun

Solar diurnal tides

USE: **Diurnal tides**

**Solar eclipse**

UF: Eclipse (solar)

RT: Astronomy

Solar radiation

Sun

**Solar power**

BT: Energy resources

RT: Green energy

Renewable resources

Solar cells

- Solar radiation  
Sun
- Solar radiation**  
UF: Diffuse sky radiation  
Global radiation  
Net solar radiation  
Short wave radiation  
Sky radiation  
BT: Electromagnetic radiation  
NT: Reflected global radiation  
RT: Albedo  
Astronomy  
Climate  
Cloud cover  
Energy flow  
Infrared radiation  
Insolation  
Irradiance  
Light  
Light penetration  
Photosynthesis  
Phototaxis  
Phototropism  
Radiance  
Radiation balance  
Radiational tides  
Radiative transfer  
Solar-terrestrial activity  
Solar activity  
Solar cells  
Solar constant  
Solar eclipse  
Solar power  
Sun  
Thermal radiation  
Ultraviolet radiation
- Solar semidiurnal tides  
USE: **Semidiurnal tides**
- Solar tides**  
SN: Before 1982 search also  
TIDES  
BT: Tides  
RT: Meteorological tides  
Sun  
Tidal constituents
- Sole fisheries  
USE: **Flatfish fisheries**
- Sole marks  
USE: **Current marks**
- Solid gas hydrates  
USE: **Gas hydrates**
- Solid hydrocarbons  
USE: **Hydrocarbons**
- Solid impurities**  
UF: Solid wastes  
BT: Pollutants  
NT: Litter  
Plastic debris  
Tar balls
- RT: Flotsam
- Solid wastes  
USE: **Solid impurities**
- Solidification**  
BT: Phase changes  
RT: Freezing  
Melting
- Solifluction  
USE: **Creep**
- Solitary waves**  
BT: Shallow water waves  
RT: Solitons  
Surface gravity waves
- Solitons**  
RT: Solitary waves
- Solubility**  
BT: Chemical properties  
NT: Gas solubility  
RT: Chemical precipitation  
Dissolution  
Dissolved chemicals  
Dissolved gases  
Leaching  
Saturation  
Solutes  
Solutions  
Solvents  
Supersaturation
- Solutes**  
RT: Crystallization  
Solubility  
Solutions  
Solvents
- Solution  
USE: **Dissolution**
- Solutions**  
NT: Brines  
Hydrothermal solutions  
RT: Buffers  
Dissolution  
Dissolved chemicals  
Dissolved gases  
Dissolved inorganic matter  
Dissolved organic matter  
Emulsions  
Exchange capacity  
Saturation  
Solubility  
Solutes  
Solvents
- Solvation**  
NT: Hydration
- Solvent extraction**  
BT: Separation processes  
RT: Dissolution  
Leaching
- Solvents**  
BT: Agents  
RT: Crystallization  
Dispersants  
Dissolution  
Oil removal  
Solubility  
Solutes  
Solutions
- Somatic mutations  
USE: **Mutations**
- Sonar**  
UF: Asdic  
Sonar equipment  
Sonar systems  
BT: Remote sensing equipment  
NT: Active sonar  
Gloria  
Passive sonar  
RT: Acoustic equipment  
Acoustic navigation  
Electronic equipment  
Radar  
Sonar arrays  
Sonar detection  
Sonar imagery  
Sonar receivers  
Sonar targets  
Sonar transducers  
Sound propagation  
Surveying equipment  
Underwater equipment
- Sonar arrays**  
BT: Acoustic arrays  
RT: Sonar
- Sonar buoys  
USE: **Sonobuoys**
- Sonar detection**  
UF: Acoustic detection  
Sonar interception  
BT: Detection  
RT: Echo integrators  
Echo ranging  
Echolocation  
Fish detection  
Sonar
- Sonar equipment  
USE: **Sonar**
- Sonar imagery**  
BT: Acoustic imagery  
RT: Insonification  
Sonar  
Sonographs
- Sonar interception  
USE: **Sonar detection**
- Sonar navigation  
USE: **Acoustic navigation**

**Sonar receivers**

RT: Acoustic equipment  
Sonar

Sonar systems

USE: **Sonar**

**Sonar targets**

RT: Acoustic equipment  
Sonar

**Sonar transducers**

BT: Acoustic transducers  
RT: Sonar

Sonar transponders

USE: **Acoustic transponders**

Sonic Detection And Ranging

USE: **Sodar**

**Sonic tags**

UF: Acoustic tags  
Tags (acoustic)  
BT: Tags  
RT: Acoustic equipment  
Biotelemetry  
Sound waves

Sonic waves

USE: **Sound waves**

**Sonobuoys**

UF: Sonar buoys  
BT: Buoys  
RT: Hydrophones  
Passive sonar  
Seismic equipment

Sonograms

USE: **Sonographs**

**Sonographs**

UF: Sonograms  
RT: Active sonar  
Gloria  
Insonification  
Seafloor mapping  
Side scan sonar  
Sonar imagery

**Sorption**

UF: Absorption (chemistry)  
Chemisorption  
NT: Adsorption  
Desorption  
RT: Biological uptake  
Surface properties

**Sound**

NT: Noise (sound)  
RT: Acoustics  
Insonification  
Sound absorption  
Sound diffraction  
Sound generators

Sound pressure  
Sound production  
Sound propagation  
Sound reflection  
Sound refraction  
Sound scattering  
Sound sources  
Sound transmission  
Sound velocity

**Sound absorption**

UF: Absorption (sound)  
Acoustic wave absorption  
BT: Absorption (physics)  
RT: Acoustic insulation  
Sound  
Sound attenuation  
Sound propagation  
Sound reflection  
Sound scattering

**Sound attenuation**

UF: Acoustic wave attenuation  
RT: Acoustic properties  
Sound absorption  
Sound pressure  
Sound scattering  
Sound transmission  
Wave attenuation

Sound backscatter

USE: **Backscatter**

Sound baffles

USE: **Acoustic insulation**

**Sound channels**

UF: Acoustic channels  
Channels (sound)  
RT: Acoustics  
Density stratification  
Sofar  
Sound velocity  
Thermal stratification

**Sound diffraction**

UF: Acoustic wave diffraction  
BT: Diffraction  
RT: Sound  
Sound dispersion  
Sound propagation  
Sound scattering

**Sound dispersion**

UF: Acoustic wave dispersion  
BT: Dispersion  
RT: Sound diffraction  
Sound propagation  
Sound refraction  
Sound scattering  
Sound velocity

Sound emission

USE: **Sound production**

Sound Fixing And Ranging

USE: **Sofar**

**Sound generation**

UF: Generation (sound waves)  
RT: Sound generators  
Sound propagation

**Sound generators**

UF: Acoustic generators  
Acoustic radiators  
Noise generators  
BT: Acoustic equipment  
NT: Pingers  
RT: Seismic energy sources  
Sound  
Sound generation  
Sound production  
Sound sources

Sound insulation

USE: **Acoustic insulation**

**Sound intensity**

UF: Acoustic intensity  
RT: Acoustic properties  
Sound measurement

**Sound measurement**

UF: Acoustic measurement  
BT: Measurement  
RT: Sound intensity  
Sound velocity

**Sound pressure**

BT: Pressure  
RT: Sound  
Sound attenuation

**Sound production**

SN: Restricted to vocalization or other sources of sound production such as stridulation by animals. Before 1982 search SOUND PRODUCTION (BIOLOGICAL)  
UF: Sound emission  
Sound production (biological)  
RT: Animal communication  
Audition  
Auditory organs  
Auditory stimuli  
Bioacoustics  
Biological noise  
Echolocation  
Larynx  
Sound  
Sound generators  
Vocal organs  
Vocalization behaviour

Sound production (biological)

USE: **Sound production**

**Sound propagation**

UF: Acoustic wave propagation  
RT: Internal wave effects  
Sonar  
Sound

Sound absorption  
 Sound diffraction  
 Sound dispersion  
 Sound generation  
 Sound reflection  
 Sound refraction  
 Sound scattering  
 Sound transmission  
 Sound velocity

Sound properties  
 USE: **Acoustic properties**

Sound ranging  
 USE: **Echo ranging**

Sound ray paths  
 USE: **Ray paths**

**Sound recorders**  
 BT: Recording equipment  
 RT: Acoustic equipment  
 Acoustics  
 Audio recordings  
 Echosounders  
 Hydrophones  
 Oceanographic equipment

Sound recordings  
 USE: **Audio recordings**

**Sound reflection**  
 UF: Acoustic wave reflection  
 BT: Reflection  
 RT: Sound  
 Sound absorption  
 Sound propagation  
 Sound scattering  
 Target strength

**Sound refraction**  
 UF: Acoustic wave refraction  
 BT: Refraction  
 RT: Sound  
 Sound dispersion  
 Sound propagation  
 Sound scattering

Sound reverberation  
 USE: **Reverberation**

**Sound scattering**  
 UF: Acoustic wave scattering  
 Scattering (sound)  
 NT: Backscatter  
 Bottom scattering  
 Forward scattering  
 RT: Reverberation  
 Sound  
 Sound absorption  
 Sound attenuation  
 Sound diffraction  
 Sound dispersion  
 Sound propagation  
 Sound reflection  
 Sound refraction

Sound scattering layers  
 USE: **Scattering layers**

**Sound sources**  
 UF: Sound wave sources  
 RT: Sound  
 Sound generators

**Sound spectra**  
 SN: Before 1986 search also  
 ACOUSTIC SPECTRA  
 UF: Acoustic spectra  
 BT: Spectra

Sound speed  
 USE: **Sound velocity**

**Sound transmission**  
 UF: Acoustic wave transmission  
 BT: Transmission  
 RT: Sound  
 Sound attenuation  
 Sound propagation

Sound transmission loss  
 USE: **Transmission loss**

**Sound velocity**  
 UF: Sound speed  
 Wave velocity (sound)  
 BT: Velocity  
 RT: Acoustic impedance  
 Acoustic properties  
 Sound  
 Sound channels  
 Sound dispersion  
 Sound measurement  
 Sound propagation

Sound wave sources  
 USE: **Sound sources**

**Sound waves**  
 SN: Sound waves and underwater  
 transmission of sound waves  
 UF: Acoustic waves  
 Sonic waves  
 Underwater sound transmission  
 Waves (acoustic)  
 Waves (sound)  
 BT: Elastic waves  
 RT: Acoustic equipment  
 Acoustics  
 Biological noise  
 Echosounding  
 Ray paths  
 Sonic tags  
 Wave properties

Sounding (water depth)  
 USE: **Bathymetry**

**Sounding lines**  
 RT: Bathymetry  
 Depth measurement  
 Oceanographic equipment  
 Soundings

**Soundings**  
 SN: Charted depth of water  
 UF: Bathymetric observations  
 BT: Bathymetric data  
 RT: Bathymetry  
 Echosounding  
 Sounding lines  
 Water depth

Source (river)  
 USE: **Headwaters**

**Southern oscillation**  
 BT: Oscillations  
 RT: Air temperature  
 Atmospheric circulation  
 El Nino phenomena  
 Sea level  
 Sea level pressure

**Spalling**  
 BT: Defects  
 RT: Deterioration

**Spar buoys**  
 BT: Buoy hulls

**Sparkers**  
 BT: Seismic energy sources

**Spat**  
 BT: Molluscan larvae  
 RT: Clam culture  
 Cultch  
 Mussel culture  
 Oyster culture  
 Seed (aquaculture)

Spat collection  
 USE: **Seed collection**

**Spatial analysis**  
 SN: Analytical techniques to  
 determine the spatial distribution  
 of a variable, the relationship  
 between the spatial distribution  
 of variables, and the association  
 of the variables of an area. It  
 refers to the analysis of  
 phenomena distributed in space  
 and having physical dimensions  
 (the location of, proximity to, or  
 orientation of objects with  
 respect to one another; relating  
 to an area of a map as in spatial  
 information and spatial analysis;  
 referenced or relating to a  
 specific location on the Earth's  
 surface)  
 BT: Analytical techniques  
 RT: Geostatistics  
 GIS  
 Modelling

Spatial distribution  
 USE: **Geographical distribution**

- Spatial heterogeneity  
USE: **Patchiness**
- Spatial isolation  
USE: **Geographical isolation**
- Spatial planning**  
SN: A process of analysing and allocating parts of three dimensional spaces to specific uses, to achieve ecological, economic, and social objectives that are usually specified through the political process  
BT: Planning  
RT: Environment management  
Environmental protection  
Fishery management  
GIS  
Mapping  
Marine parks  
Natural resources  
Remote sensing  
Resource management  
Socioeconomic aspects  
Sustainable development  
Water resources
- Spatial variations**  
UF: Variations (space)  
NT: Finestructure  
Latitudinal variations  
Microstructure  
Patchiness  
Regional variations  
RT: Dimensions  
Horizontal distribution  
Quantitative distribution  
Vertical distribution
- Spawned salmon  
USE: **Kelt**
- Spawned trout  
USE: **Kelt**
- Spawners  
USE: **Spawning populations**
- Spawning**  
NT: Wild spawning  
RT: Breeding  
Nursery grounds  
Reproductive behaviour  
Reproductive cycle  
Sexual reproduction  
Spawning grounds  
Spawning migrations  
Spawning populations  
Spawning seasons
- Spawning grounds**  
NT: Artificial spawning grounds  
RT: Fishing grounds  
Nursery grounds  
Redds
- Spawning  
Spawning migrations  
Spawning populations  
Spawning seasons
- Spawning migrations**  
BT: Migrations  
NT: Anadromous migrations  
Catadromous migrations  
RT: Amphihaline species  
Diadromy  
Oceanodromous migrations  
Reproductive behaviour  
Spawning  
Spawning grounds  
Spawning populations  
Spawning seasons
- Spawning populations**  
UF: Spawners  
BT: Animal populations  
RT: Spawning  
Spawning grounds  
Spawning migrations  
Spawning seasons
- Spawning seasons**  
RT: Seasons  
Spawning  
Spawning grounds  
Spawning migrations  
Spawning populations
- Spawning stock biomass**  
SN: Total weight of all sexually mature fish in the stock  
UF: SSB  
BT: Biomass  
RT: Fecundity  
Fishery resources  
Recruitment  
Stock assessment
- Spear fishing**  
SN: Impaling fish with a spear from either above or below the water surface  
BT: Catching methods  
RT: Diving  
Sport fishing  
Wounding gear
- Specialists  
USE: **Experts**
- Speciation (biological)  
USE: **Biological speciation**
- Speciation (chemical)  
USE: **Chemical speciation**
- Species**  
SN: Use of a more specific term is recommended  
BT: Taxa  
NT: Amphibiotic species  
Amphihaline species
- Associated species  
Cavernicolous species  
Commercial species  
Cosmopolite species  
Cryptic species  
Domestic species  
Dominant species  
Endemic species  
Indicator species  
Introduced species  
Migratory species  
New species  
Rare species  
Relict species  
Sedentary species  
Sessile species  
Sibling species  
Threatened species  
Vulnerable species  
RT: Aquatic organisms  
Biological speciation  
Botany  
Ecology  
Species identification  
Zoology
- Species composition  
USE: **Check lists**
- Species diversity**  
UF: Community diversity  
Diversity index  
Ecological diversity  
Similarity index  
RT: Biodiversity  
Climax community  
Community composition  
Community structure  
Dominant species  
Ecological succession  
Gene pool
- Species extinction**  
UF: Extinction of species  
RT: Mass extinctions  
Nature conservation  
Overfishing  
Rare species  
Threatened species  
Vulnerable species
- Species identification**  
SN: Before 2016 search  
IDENTIFICATION KEYS + TAXONOMY  
BT: Identification  
RT: Biological speciation  
DNA barcoding  
Holotypes  
Identification keys  
Species  
Taxonomy
- Species rarity  
USE: **Rare species**

Species traits  
USE: **Biological traits**

**Specific gravity**  
BT: Physical properties  
RT: Density  
Relative density  
Weight

Specific gravity measurement  
USE: **Density measurement**

**Specific heat**  
UF: Heat capacity  
Thermal capacity  
BT: Thermodynamic properties  
RT: Enthalpy  
Specific humidity  
Thermal conductivity

**Specific humidity**  
BT: Humidity  
RT: Relative humidity  
Specific heat

**Specific volume**  
RT: Isopycnics  
Specific volume anomalies  
Thermal expansion  
Volume  
Water density

**Specific volume anomalies**  
UF: Steric anomalies  
BT: Anomalies  
NT: Thermosteric anomalies  
RT: Dynamic height anomaly  
Specific volume  
Water density

**Specifications**  
RT: Design  
Guidelines  
Performance assessment  
Prototypes  
Standards

**Specificity**  
RT: Chemical reactions  
Host preferences  
Substrate preferences

**Spectra**  
UF: Spectrum  
NT: Absorption spectra  
Current spectra  
Directional spectra  
Energy spectra  
Frequency spectra  
Sound spectra  
Wave spectra

**Spectral analysis**  
BT: Mathematical analysis  
NT: Maximum entropy spectral analysis  
RT: Data reduction

Frequency analysis  
Signal processing  
Time series analysis  
Waveform analysis

**Spectral composition**  
BT: Optical properties  
RT: Colour  
Light penetration  
Spectrophotometers

**Spectrochemical analysis**  
RT: Spectrophotometers

**Spectrophotometers**  
BT: Photometers  
RT: Spectral composition  
Spectrochemical analysis  
Spectroscopic techniques

**Spectroscopic techniques**  
UF: Alpha spectroscopy  
Spectroscopy  
BT: Analytical techniques  
NT: Absorption spectroscopy  
Emission spectroscopy  
Fluorescence spectroscopy  
Gamma spectroscopy  
Infrared spectroscopy  
Mass spectroscopy  
X-ray spectroscopy  
RT: Chromatographic techniques  
Colorimetric techniques  
Nuclear magnetic resonance  
Photometry  
Spectrophotometers

Spectroscopy  
USE: **Spectroscopic techniques**

Spectrum  
USE: **Spectra**

**Speech distortion**  
RT: Communication

Speed  
USE: **Velocity**

**Speedometers**  
SN: Instruments for measuring vessel speed  
BT: Measuring devices

**Spelaeology**  
SN: The study of caves, their flora and fauna  
UF: Speleology  
RT: Cavernicolous species  
Caves  
Geomorphology  
Karst hydrology

Speleology  
USE: **Spelaeology**

**Sperm**  
SN: Before 1986 search also SPERMATOZOA  
UF: Spermatozoa  
BT: Sexual cells  
RT: Fecundity  
Gynogenesis  
Polyspermy  
Semen  
Spermatogenesis  
Spermatophores

Sperm oils  
USE: **Fish oils**

**Spermatogenesis**  
BT: Gametogenesis  
RT: Sperm  
Testes

**Spermatophores**  
RT: Biological fertilization  
Sexual maturity  
Sexual reproduction  
Sperm

Spermatozoa  
USE: **Sperm**

Sphene  
USE: **Titanite**

Sphingolipids  
USE: **Complex lipids**

**Spilling waves**  
BT: Breaking waves

**Spillways**  
SN: Structures constructed to provide safe release of flood waters from a dam to a downstream area  
UF: Overfalls  
RT: Dams  
Flood control  
Water reservoirs

Spin fishing  
USE: **Sport fishing**

**Spinal cord**  
BT: Central nervous system  
RT: Vertebrae

Spiny lobster fisheries  
USE: **Lobster fisheries**

**Spits**  
BT: Beach features  
NT: Barrier spits  
RT: Deposition features

**Splash zone**  
UF: Spray zone  
RT: Corrosion  
Spray

**Spleen**

BT: Excretory organs  
RT: Lymphocytes

**Splines**

RT: Numerical analysis

**Spoil**

RT: Dredge spoil  
Waste disposal sites

**Spoilage (fish)**

USE: **Fish spoilage**

**Sponge culture**

BT: Cultures  
RT: Marine aquaculture  
Sponge fisheries  
Sponges

**Sponge fisheries**

UF: Sponge harvesting  
BT: Fisheries  
RT: Fishing by diving  
Marine fisheries  
Sponge culture  
Sponges

**Sponge harvesting**

USE: **Sponge fisheries**

**Sponges**

BT: Animal products  
RT: Sponge culture  
Sponge fisheries

**Sporangia**

RT: Asexual reproduction  
Spores  
Sporogenesis

**Spore collection**

USE: **Seed collection**

**Spore formation**

USE: **Sporogenesis**

**Spores**

UF: Aplanospores  
Ascospores  
Basidiospores  
Blastospores  
Oospores  
Zoospores  
NT: Conidia  
Resting spores  
RT: Algal culture  
Asexual reproduction  
Atmospheric particulates  
Bacteria  
Budding  
Encystment  
Fossil spores  
Fungi  
Gametophytes  
Germination

Palynology  
Seed collection  
Sporangia  
Sporogenesis  
Sporophytes

**Sporogenesis**

UF: Spore formation  
Sporogony  
Sporulation  
RT: Sporangia  
Spores  
Sporophytes

**Sporogony**

USE: **Sporogenesis**

**Sporophytes**

RT: Alternate reproduction  
Spores  
Sporogenesis

**Sport fish**

USE: **Game fish**

**Sport fishing**

SN: Any activities of fishing with  
recreation or water sports  
purposes  
UF: Community fishing  
(recreational)  
Flyfishing  
Recreational fishing  
Spin fishing  
BT: Fishing  
Recreation  
NT: Angling  
RT: Fee fishing  
Game fish  
Ice fishing  
Spear fishing  
Sport fishing statistics

**Sport fishing statistics**

SN: Including number of sport  
fishermen and catches  
UF: Creel census  
BT: Fishery statistics  
RT: Game fish  
Sport fishing

**Sporulation**

USE: **Sporogenesis**

**Spotted pest**

USE: **Vibriosis**

**Sprat fisheries**

USE: **Clupeoid fisheries**

**Spray**

UF: Salt spray  
Sea spray  
BT: Hydrometeors  
RT: Droplets  
Splash zone

**Spray zone**

USE: **Splash zone**

**Spreading**

USE: **Dispersion**

**Spreading axis**

USE: **Spreading centres**

**Spreading centres**

UF: Spreading axis  
Spreading ridges  
RT: Diverging plate boundaries  
Plate divergence  
Plate tectonics  
Seafloor spreading

**Spreading rate**

USE: **Seafloor spreading**

**Spreading ridges**

USE: **Spreading centres**

**Spring**

SN: Used for the season  
UF: Spring (season)  
BT: Seasons

**Spring (season)**

USE: **Spring**

**Spring streams**

BT: Water springs  
RT: Ground water  
Lotic environment  
Water resources

**Spring tides**

BT: Tides

**Springs (water)**

USE: **Water springs**

**Squalene**

BT: Polyunsaturated hydrocarbons

**Squalls**

SN: Squalls refer to an increase in  
the sustained winds over a short  
time interval, as there may be  
higher gusts during a squall  
event  
BT: Atmospheric turbulence  
RT: Gusts  
Storms  
Weather  
Wind speed  
Winds

**Squat lobster fisheries**

UF: Galatheid fisheries  
Red crab fisheries  
BT: Crustacean fisheries



**Squid culture**

SN: Before 1982 search  
MOLLUSC CULTURE  
BT: Cephalopod culture  
RT: Cephalopod fisheries

Squid fisheries

USE: **Cephalopod fisheries**

SSB

USE: **Spawning stock biomass**

St Elmo's fire

USE: **Atmospheric electricity**

**Stability**

SN: Use of a more specific term is recommended

NT: Sediment stability

Ship stability

Slope stability

Vertical stability

RT: Ballast

Buoyancy

Equilibrium

Instability

Monin-Obukhov length

Stability constants

Stabilizing

Steady state

Stability (ecological)

USE: **Ecological balance**

**Stability constants**

BT: Constants

RT: Stability

Stability frequency

USE: **Brunt-Vaisala frequency**

Stabilization

USE: **Stabilizing**

**Stabilized platforms**

BT: Instrument platforms

NT: Towers

**Stabilizers**

UF: Stabilizing fins

RT: Ship motion

Ship stability

Stabilizing

**Stabilizing**

UF: Stabilization

RT: Heave compensators

Stability

Stabilizers

Stabilizing fins

USE: **Stabilizers**

**Stable isotopes**

SN: Chemical Isotopes that are not radioactive; Carbon, Nitrogen, Oxygen and Hydrogen are those

most commonly used in ecological and environmental research

BT: Isotopes

RT: Excretory products

Food consumption

Food webs

Interspecific relationships

Intraspecific relationships

Isotope fractionation

Mass spectroscopy

Metabolism

Physiology

Radioisotopes

Trophic levels

Trophic relationships

Trophic structure

Trophodynamic cycle

**Stacks**

BT: Coastal landforms

Staff (personnel)

USE: **Personnel**

Stages (water)

USE: **Water levels**

**Stagnant water**

BT: Water

RT: Anoxic conditions

Dystrophic lakes

Hypolimnion

Sapropels

Wetlands

**Staining**

SN: Staining of tissues and organisms

RT: Dye colouration

Dyes

Marking

**Stainless steel**

BT: Steel

RT: Corrosion control

**Standard depths**

SN: Recommended depths below sea surface at which water properties should be measured

BT: Depth

**Standard ocean sections**

SN: Routes along which oceanographic observations are made regularly over a period of time, e.g. Kola Section, Line P

UF: Ocean data routes

BT: Oceanographic stations

RT: Fixed stations

Hydrographic sections

Oceanographic data

Oceanographic surveys

Time series

**Standard sea water**

BT: Sea water

RT: Artificial seawater

Salinity measurement

**Standard signals**

RT: Communication systems

Navigation

**Standardization**

SN: Comparison of an instrument or device with a standard to determine its value in terms of an adopted unit

NT: Calibration

RT: FAO Code of Conduct for

Responsible Fisheries

Intercomparison

Methodology

Standards

Terminology

**Standards**

UF: Codes of practice

NT: Codex standards

Practical salinity scale

RT: Acceptability

Bench marks

Best practices

FAO Code of Conduct for

Responsible Fisheries

Guidelines

Protocols

Quality control

Specifications

Standardization

Terminology

Standby vessels

USE: **Emergency vessels**

Standing crop (in number)

USE: **Population number**

Standing crop (in weight)

USE: **Biomass**

Standing stock (in number)

USE: **Population number**

Standing stock (in weight)

USE: **Biomass**

**Standing waves**

UF: Clapotis

Stationary waves

BT: Oscillatory waves

RT: Hydraulic jump

Seiches

Wave reflection

**Starch**

SN: Before 1982 search  
CARBOHYDRATES

BT: Polysaccharides

**Starvation**

UF: Absolute food deficiency  
 RT: Famine  
 Food availability  
 Food insecurity  
 Food security  
 Hunger  
 Lethal limits  
 Mortality causes  
 Nutrition disorders  
 Survival

State-of-the-art reviews  
 USE: **Literature reviews**

State governments  
 USE: **Governments**

State jurisdiction  
 USE: **Jurisdiction**

States (political)  
 USE: **Countries**

**Static instability**  
 BT: Instability  
 RT: Vertical stability

Static stability  
 USE: **Vertical stability**

Static water culture  
 USE: **Pond culture**

**Station keeping**  
 RT: Deployment  
 Oceanographic stations  
 Recovery  
 Seamanship  
 Ship drift

**Station lists**  
 BT: Data reports  
 RT: Logbooks  
 Oceanographic stations  
 Track charts

Stationary waves  
 USE: **Standing waves**

Stations (oceanographic)  
 USE: **Oceanographic stations**

**Statistical analysis**  
 UF: Chi square test  
 Statistical methods  
 Statistical tests  
 Statistics (mathematics)  
 Tests for significant differences  
 BT: Mathematical analysis  
 NT: Bayesian analysis  
 Correlation analysis  
 Frequency analysis  
 Non-parametric methods  
 Parametric methods  
 Regression analysis  
 Time series analysis

Variance analysis  
 Virtual population analysis  
 RT: Approximation  
 Biometrics  
 Economic analysis  
 Gaussian distribution  
 Graphical analysis  
 Kurtosis  
 Numerical analysis  
 Prediction  
 Probability theory  
 Random processes  
 Skewness  
 Statistical models  
 Statistical sampling  
 Statistical tables  
 Statisticians  
 Statistics  
 Stochastic processes  
 Survey design

Statistical charts  
 USE: **Statistical tables**

Statistical methods  
 USE: **Statistical analysis**

**Statistical models**  
 BT: Mathematical models  
 RT: Operations research  
 Probability theory  
 Statistical analysis  
 Statistics  
 System analysis

**Statistical sampling**  
 SN: Before 1982 search  
 SAMPLING (STATISTICAL)  
 UF: Random sampling  
 Sampling (statistical)  
 Stratified sampling  
 BT: Sampling  
 RT: Biological sampling  
 Probability theory  
 Statistical analysis  
 Statistical tables  
 Statistics  
 Survey design

**Statistical tables**  
 UF: Statistical charts  
 Tables (statistical)  
 BT: Tables  
 NT: Scatter diagrams  
 RT: Graphical analysis  
 Statistical analysis  
 Statistical sampling  
 Statistics

Statistical tests  
 USE: **Statistical analysis**

**Statisticians**  
 BT: Scientific personnel  
 RT: Statistical analysis  
 Statistics

**Statistics**

NT: Fishery statistics  
 Geostatistics  
 Household statistics  
 Wave statistics  
 RT: Biometrics  
 Mathematics  
 Statistical analysis  
 Statistical models  
 Statistical sampling  
 Statistical tables  
 Statisticians

Statistics (mathematics)  
 USE: **Statistical analysis**

**Statocysts**  
 BT: Balance organs  
 RT: Statoliths

**Statoliths**  
 RT: Statocysts

**STD observations**  
 UF: Salinity-temperature-depth  
 observations  
 RT: CTD observations  
 Hydrographic data  
 STD profiles

STD probes  
 USE: **STD profilers**

**STD profilers**  
 UF: Salinity-temperature-depth  
 profilers  
 STD probes  
 STD sensors  
 BT: Profilers  
 RT: Conductivity sensors  
 CTD profilers  
 Salinity measuring equipment  
 Salinity profiles  
 STD profiles  
 Thermometers

**STD profiles**  
 UF: Salinity-temperature-depth  
 profiles  
 Salinity temperature depth  
 profiles  
 BT: Vertical profiles  
 RT: Hydrographic data  
 STD observations  
 STD profilers  
 Temperature profiles

STD sensors  
 USE: **STD profilers**

**Steady state**  
 RT: Equilibrium  
 Perturbations  
 Stability  
 Unsteady state

## ASFA THESAURUS

Steam fog  
USE: **Fog**

### **Steel**

BT: Ferrous alloys  
NT: Stainless steel  
RT: Metals  
Reinforced concrete  
Steel structures

Steel platforms  
USE: **Steel structures**

### **Steel structures**

UF: Steel platforms  
BT: Structures  
RT: Concrete structures  
Offshore structures  
Steel

Steel wire  
USE: **Wire rope**

### **Steering systems**

RT: Manoeuvrability  
Positioning systems  
Propulsion systems  
Ship technology  
Vehicles

### **Stems**

BT: Plant organs  
RT: Rhizomes  
Stomata

Stenohaline organisms  
USE: **Stenohalinity**

### **Stenohalinity**

UF: Stenohaline organisms  
BT: Biological properties  
RT: Euryhalinity  
Salinity tolerance

Stenothermal organisms  
USE: **Stenothermy**

### **Stenothermy**

UF: Stenothermal organisms  
BT: Biological properties  
RT: Eurythermy  
Temperature tolerance

### **Stereophotography**

BT: Photography  
RT: Aerial photography  
Depth measurement  
Surveying underwater  
Wave measurement

Steric anomalies  
USE: **Specific volume anomalies**

### **Steric sea level**

BT: Sea level  
RT: Isostatic sea level

### **Sterility**

SN: Natural or artificial sterility  
by irradiation or removal  
of reproductive organs  
RT: Animal reproductive organs  
Castration  
Ovaries  
Testes

### **Sterilization**

NT: Ozonation  
Ultraviolet sterilization  
RT: Ionizing radiation  
Ultraviolet radiation

### **Steroids**

BT: Lipids  
NT: Sterols  
RT: Drugs  
Hormones

### **Sterols**

UF: Sitosterols  
BT: Steroids  
NT: Cholesterol  
Fucosterol  
RT: Alcohols

### **Stewardship**

SN: The activity or job of  
protecting and being responsible  
for something. The responsible  
planning and management of  
resources. Use of a more  
specific term is recommended  
RT: Environment management  
Fishery management  
Governance  
Management  
Resource management

### **Stickwater**

UF: Fish solubles  
BT: Processed fishery products  
RT: Byproducts  
Fish oils  
Fish wastes

### **Still water level**

USE: **Sea level**

### **Stimulants (growth)**

USE: **Growth regulators**

### **Stimuli**

SN: Stimuli and their effects on  
aquatic organisms  
NT: Auditory stimuli  
Chemical stimuli  
Electric stimuli  
Light stimuli  
Mechanical stimuli  
Tactile stimuli  
Thermal stimuli  
Visual stimuli  
RT: Behavioural responses  
Biological stress

Coral bleaching  
Learning behaviour  
Orientation behaviour  
Sense functions  
Tropism

Stinging organisms  
USE: **Noxious organisms**

### **Stinging organs**

UF: Nematocysts  
RT: Electric organs  
Noxious organisms  
Venom apparatus

Stochastic models  
USE: **Mathematical models**

### **Stochastic processes**

RT: Mathematical models  
Operations research  
Probability theory  
Random processes  
Statistical analysis  
Time series analysis

### **Stock assessment**

UF: Stock evaluation  
RT: Catch-effort  
Catch statistics  
Census  
Exploratory fishing  
Fishery surveys  
Fishing down aquatic food  
webs  
Fork length  
Landing statistics  
Population characteristics  
Population number  
Population structure  
Spawning stock biomass  
Stock identification  
Stocks  
Surplus production  
Survey design  
Swept area  
Virtual population analysis

Stock density  
USE: **Population density**

Stock depletion  
USE: **Depleted stocks**

Stock evaluation  
USE: **Stock assessment**

### **Stock identification**

RT: Meristic counts  
Population genetics  
Racial studies  
Stock assessment  
Subpopulations

**Stocking (organisms)**

UF: Restocking  
 Stocking operations  
 RT: Aquaculture  
 Aquaculture techniques  
 Density dependence  
 Ranching  
 Seeding (aquaculture)  
 Stocking density  
 Stocking ponds  
 Transplantation

**Stocking density**

UF: Crowding  
 Density (stocking)  
 RT: Biotic factors  
 Density dependence  
 Overcrowding  
 Population density  
 Stocking (organisms)  
 Stocking ponds

Stocking operations

USE: **Stocking (organisms)**

**Stocking ponds**

BT: Fish ponds  
 RT: Stocking (organisms)  
 Stocking density

**Stocks**

SN: The exploitable group of individuals of the same species existing in a particular area at a particular time  
 UF: Fish stocks  
 Wild fish stocks  
 NT: Brood stocks  
 Depleted stocks  
 Shared stocks  
 Straddling stocks  
 Unit stocks  
 RT: Animal populations  
 Fishery resources  
 Stock assessment

Stokes drift

USE: **Wave drift velocity**

**Stokes law**

RT: Particle settling  
 Settling rate  
 Viscosity

**Stokes waves**

BT: Nonlinear waves

Stoma

USE: **Stomata**

**Stomach**

BT: Alimentary organs  
 Secretory organs  
 NT: Masticatory stomach  
 RT: Hunger  
 Pyloric caeca  
 Stomach content

**Stomach content**

RT: Food consumption  
 Gastric evacuation  
 Stomach

**Stomata**

UF: Stoma  
 RT: Leaves  
 Plant physiology  
 Respiration  
 Rhizomes  
 Stems  
 Transpiration

Stoneley waves

USE: **Surface seismic waves**

**Storage**

SN: Use of a more specific term is recommended; consult narrower terms listed below  
 UF: Capacity (storage)  
 NT: Cold storage  
 Data storage  
 Fish storage  
 Sample storage  
 RT: Storage conditions  
 Storage effects  
 Storage life  
 Storage tanks

Storage (fish)

USE: **Fish storage**

**Storage conditions**

UF: Storage humidity  
 Storage temperature  
 RT: Air temperature  
 Humidity  
 Post harvest losses  
 Storage  
 Storage effects  
 Storage life

**Storage effects**

SN: Any action of storage on the quality of processed fishery products, sediment samples and water samples, etc.  
 RT: Quality control  
 Storage  
 Storage conditions  
 Storage life

Storage humidity

USE: **Storage conditions**

**Storage life**

UF: Shelf life  
 RT: Quality assurance  
 Storage  
 Storage conditions  
 Storage effects

**Storage tanks**

BT: Tanks

RT: Storage

Storage temperature

USE: **Storage conditions**

**Storm surge barriers**

UF: Tidal barriers  
 BT: Barriers  
 Coast defences  
 RT: Storm surges  
 Tidal barrages  
 Tide-surge interaction

Storm surge forecasts

USE: **Storm surge prediction**

**Storm surge generation**

BT: Wave generation  
 RT: Storm surges

**Storm surge prediction**

UF: Storm surge forecasts  
 BT: Prediction  
 RT: Storm surges  
 Storm tide warning services

**Storm surges**

UF: Storm tides  
 Surges (storm)  
 BT: Surface water waves  
 Surges  
 NT: Hurricane waves  
 RT: Catastrophic waves  
 Disasters  
 Flooding  
 Floods  
 Meteorological tides  
 Shallow water waves  
 Storm surge barriers  
 Storm surge generation  
 Storm surge prediction  
 Storm tide warning services  
 Surface gravity waves  
 Tide-surge interaction  
 Wind setup

**Storm tide warning services**

BT: Warning services  
 RT: Storm surge prediction  
 Storm surges

Storm tides

USE: **Storm surges**

**Storms**

UF: Gales  
 BT: Weather hazards  
 NT: Hurricanes  
 Thunderstorms  
 RT: Squalls  
 Tornadoes  
 Winds

**Stormwater runoff**

BT: Runoff

**Straddling stocks**

SN: Stock which occurs both within the EEZ and in an area beyond and adjacent to EEZ  
 BT: Stocks  
 RT: United Nations Fish Stock Agreement

Straight chain saturated hydrocarbons

USE: **Acyclic hydrocarbons**

**Strain**

BT: Deformation  
 RT: Elasticity  
 Poisson's ratio  
 Shear strength  
 Strain gauges  
 Stress-strain relations  
 Stress (mechanics)

**Strain gauges**

BT: Gauges  
 RT: Strain  
 Tiltmeters  
 Transducers

Strain seismometers  
 USE: **Seismometers**

Strains (microbiology)  
 USE: **Microbiological strains**

Strains (plants)  
 USE: **Plant strains**

**Straits**

BT: Coastal waters  
 RT: Channels  
 Tunnels  
 Water exchange

Strand lines  
 USE: **Strandlines**

Stranded organisms  
 USE: **Stranding**

Strandflats  
 USE: **Wave-cut platforms**

**Stranding**

SN: Whales or other organisms washed ashore  
 UF: Stranded organisms  
 Whale stranding  
 RT: Aquatic mammals  
 Carcasses

**Strandlines**

UF: Ancient shorelines  
 Strand lines  
 BT: Coasts  
 RT: Glacial lakes  
 Raised beaches  
 Sea level changes  
 Terraces

Wave-cut platforms

**Stratification**

NT: Density stratification  
 Salinity stratification  
 Thermal stratification  
 RT: Baroclinic mode  
 Barotropic mode  
 Destratification  
 Layers  
 Stratified flow  
 Water column

Stratification (density)  
 USE: **Density stratification**

Stratification (salinity)  
 USE: **Salinity stratification**

Stratification (thermal)  
 USE: **Thermal stratification**

**Stratified flow**

BT: Fluid flow  
 RT: Baroclinic mode  
 Baroclinic motion  
 Density flow  
 Laminar flow  
 Stratification  
 Stratified shear flow

Stratified sampling  
 USE: **Statistical sampling**

**Stratified shear flow**

BT: Shear flow  
 RT: Lee waves  
 Stratified flow

**Stratigraphic correlation**

BT: Geological correlation  
 RT: Geochronometry  
 Sediments  
 Stratigraphy

Stratigraphic systems  
 USE: **Geological time**

**Stratigraphic traps**

RT: Geological equipment  
 Stratigraphy

**Stratigraphy**

BT: Geology  
 NT: Biostratigraphy  
 Chronostratigraphy  
 Magnetostratigraphy  
 Oxygen isotope stratigraphy  
 Seismic stratigraphy  
 Seismic tomography  
 Sequence stratigraphy  
 RT: Geochronometry  
 Geological time  
 Isopach maps  
 Marine geology  
 Micropalaeontology  
 Palaeoclimatology

Palaeoecology  
 Palaeontology  
 Sediment structure  
 Stratigraphic correlation  
 Stratigraphic traps

**Stratosphere**

BT: Earth atmosphere  
 RT: Ionosphere  
 Tropopause  
 Troposphere

Stream conservation  
 USE: **Conservation**

Stream ecology  
 USE: **Freshwater ecology**

Stream fisheries  
 USE: **River fisheries**

**Stream flow**

UF: River currents  
 River flow  
 BT: Water currents  
 RT: Backwaters  
 Flood control  
 Fluid motion  
 Hydrodynamics  
 River discharge  
 River engineering  
 Rivers  
 Stream flow rate  
 Unidirectional flow  
 Watersheds

**Stream flow rate**

BT: Current velocity  
 RT: Rivers  
 Stream flow

**Stream functions**

RT: Coriolis parameters  
 Dynamic height  
 Geostrophic equilibrium  
 Streamlines

Stream valleys  
 USE: **River valleys**

**Streamers**

BT: Cables  
 RT: Hydrophones  
 Oceanographic equipment  
 Seismic equipment  
 Sensors

**Streamlines**

BT: Map graphics  
 RT: Current charts  
 Current direction  
 Current vectors  
 Dynamic topography  
 Stream functions  
 Water currents

Streams

USE: **Rivers****Strength**

SN: Use for mechanical strength

BT: Mechanical properties

NT: Bearing capacity

Collapse strength

Compressive strength

Shear strength

Tensile strength

RT: Yield point

Stress

USE: **Stress (mechanics)****Stress-strain relations**

RT: Deformation

Mechanical properties

Soil mechanics

Strain

Stress (mechanics)

Tensile strength

Stress (biological)

USE: **Biological stress****Stress (mechanics)**

SN: Before 1995 search also

STRESS

UF: Stress

BT: Forces (mechanics)

NT: Bottom stress

Compression

Reynolds stresses

Shear stress

Tension

Torque

Wind stress

RT: Biological stress

Elasticity

Fatigue (materials)

Mechanical properties

Shear strength

Strain

Stress-strain relations

Stress (physiological)

USE: **Biological stress****Stress corrosion**

BT: Corrosion

RT: Embrittlement

Fatigue (materials)

Metal fatigue

Striated muscles

USE: **Muscles****Strike-slip faults**

BT: Faults

Stringers

USE: **Pipe stringers****Strip mine lakes**

BT: Lakes

RT: Mine tailings

Pits

**Stripping analysis**

UF: Anodic stripping voltammetry

Cathodic stripping voltammetry

BT: Analytical techniques

**Stromatolites**

BT: Biogenic sedimentary structures

RT: Algae

Algal mats

Microbial mats

**Strontium**

BT: Alkaline earth metals

RT: Strontium isotopes

**Strontium isotopes**

BT: Isotopes

RT: Rubidium-strontium dating

Strontium

**Structural analysis**

BT: Structural engineering

RT: Design

Mathematical analysis

Tolerances (dimensional)

**Structural basins**

BT: Basins

NT: Forearc basins

Marginal basins

RT: Ocean basins

Sedimentary basins

Tectonics

**Structural domes**

UF: Geological domes

BT: Folds

NT: Salt domes

RT: Diapirs

**Structural dynamics**

BT: Dynamics

RT: Dynamic loads

Structural engineering

**Structural engineering**

BT: Engineering

NT: Structural analysis

RT: Coastal engineering

Geotechnology

Hydraulic engineering

Offshore structures

River engineering

Settlement (structural)

Structural dynamics

**Structural geology**

BT: Geology

RT: Geological structures

Tectonics

Structural settlement

USE: **Settlement (structural)****Structures**

SN: Use only for man-made structures. Use of a more specific term is recommended

NT: Concrete structures

Cylindrical structures

Hydraulic structures

Perforated structures

Steel structures

RT: Legs (structural)

Settlement (structural)

Strumming

USE: **Vibration****Stunting**

RT: Growth

**Stupefying methods**

RT: Electric fishing

Electrified gear

Explosive fishing

Fish poisoning

**Sub-bottom profiling**

SN: Profiling using systems employing discrete sound sources, e.g. echosounders

BT: Profiling

Seismic exploration

RT: Echosounding

Seismic reflection profiling

**Subaerial topography**

BT: Topography (geology)

Subaqueous sediment transport

USE: **Sediment transport****Subduction**

SN: A continental plate of greater density forced beneath an adjoining plate

RT: Active margins

Forearc basins

Island arcs

Marginal basins

Obduction

Oceanic crust

Plate tectonics

Plates

Subduction zones

**Subduction zones**

RT: Benioff zone

Converging plate boundaries

Oceanic trenches

Plate convergence

Plate tectonics

Plates

Subduction

Subgravel filters

USE: **Biofilters**

**Sublethal effects**

SN: Effects, not immediately identifiable, of harmful substances on organisms  
 RT: Bioaccumulation  
 Biological poisons  
 Biotesting  
 Diseases  
 Lethal effects  
 Pollution effects  
 Pollution tolerance  
 Survival  
 Toxicity  
 Toxicity tolerance

**Sublimation**

BT: Vaporization  
 RT: Ablation  
 Condensation  
 Evaporation  
 Freezing  
 Hydrometeors  
 Ice formation  
 Melting  
 Sublimation heat  
 Water vapour

**Sublimation heat**

UF: Latent heat of sublimation  
 BT: Enthalpy  
 RT: Sublimation

**Sublittoral zone**

BT: Littoral zone  
 RT: Nearshore sedimentation

**Submarine banks**

BT: Banks (topography)  
 Submarine features  
 RT: Fishing grounds  
 Mud banks  
 Sand banks  
 Shoals

Submarine bars

USE: **Nearshore bars**

Submarine basins

USE: **Ocean basins**

**Submarine cable breaks**

UF: Cable breaks  
 RT: Submarine cables

**Submarine cables**

BT: Electric cables  
 RT: Cable laying  
 Cable ships  
 Coaxial cables  
 Communication systems  
 Submarine cable breaks  
 Telephone systems

**Submarine canyons**

BT: Submarine features  
 RT: Continental shelves  
 Continental slope

Deep-sea fans  
 Submarine valleys  
 Thalweg

**Submarine cements**

SN: Chemically precipitated mineral material  
 UF: Cements (geology)  
 BT: Chemical sediments  
 RT: Authigenic minerals  
 Cementation

Submarine crust

USE: **Oceanic crust**

Submarine erosion

USE: **Bottom erosion**

Submarine escarpments

USE: **Submarine scarps**

Submarine fans

USE: **Deep-sea fans**

**Submarine features**

UF: Bottom features  
 Submarine topographic features  
 BT: Topographic features  
 NT: Abyssal hills  
 Abyssal plains  
 Continental margins  
 Continental ridges  
 Continental rise  
 Continental shelves  
 Continental slope  
 Deep-sea channels  
 Deep-sea fans  
 Deep-sea furrows  
 Fracture zones  
 Island slope  
 Ocean basins  
 Oceanic trenches  
 Seabights  
 Seaknolls  
 Seamount chains  
 Seamounts  
 Shelf edge  
 Shoals  
 Sills  
 Submarine banks  
 Submarine canyons  
 Submarine plateaux  
 Submarine ridges  
 Submarine scarps  
 Submarine troughs  
 Submarine valleys  
 RT: Bed forms  
 Bottom topography  
 Ocean floor  
 Submarine volcanoes

Submarine geology

USE: **Marine geology**

Submarine ice profiles

USE: **Ice canopy**

Submarine permafrost

USE: **Permafrost**

Submarine pipelines

USE: **Pipelines**

**Submarine plateaux**

UF: Ocean plateaux  
 BT: Plateaux  
 Submarine features

**Submarine ridges**

UF: Oceanic ridges  
 BT: Ridges  
 Submarine features  
 NT: Aseismic ridges  
 Mid-ocean ridges  
 Seismic ridges  
 RT: Mountains  
 Sills  
 Submarine scarps

**Submarine scarps**

SN: Before 1984 search also SCARPS and UNDERWATER ESCARPMENTS  
 UF: Submarine escarpments  
 Underwater escarpments  
 BT: Escarpments  
 Submarine features  
 RT: Fault scarps  
 Median valleys  
 Submarine ridges

**Submarine springs**

SN: Offshore emergence of fresh water  
 UF: Water seepages  
 BT: Water springs

**Submarine tankers**

BT: Submarines  
 RT: Tanker ships

Submarine terraces

USE: **Terraces**

Submarine topographic features

USE: **Submarine features**

Submarine trenches

USE: **Oceanic trenches**

**Submarine troughs**

BT: Submarine features

**Submarine valleys**

BT: Submarine features  
 Valleys  
 RT: Drowned valleys  
 Submarine canyons

**Submarine volcanoes**

BT: Volcanoes  
 RT: Plate boundaries  
 Seamount chains  
 Submarine features

**Submarines**

SN: Use only for manned underwater vehicles designed for military purposes  
 BT: Manned vehicles  
 NT: Submarine tankers  
 RT: Nuclear propulsion  
 Submersibles  
 Undersea warfare

**Submerged cages**

UF: Bottom cages  
 Midwater cages  
 BT: Cages

**Submerged shorelines**

UF: Ria coasts  
 BT: Coasts  
 RT: Drowned valleys  
 Emergent shorelines  
 Epeirogeny  
 Fjords  
 Retrogradation  
 Submergence  
 Transgressions

**Submergence**

RT: Epeirogeny  
 Retrogradation  
 Submerged shorelines  
 Transgressions

**Submersible platforms**

SN: Towed or self-propelled platforms supportable on flooded hulls  
 BT: Mobile platforms  
 RT: Caissons  
 Jackup platforms  
 Semisubmersible platforms

**Submersibles**

UF: Lockout submersibles  
 Manned submersibles  
 Submersibles (manned)  
 BT: Manned vehicles  
 NT: Wet submersibles  
 RT: Deep-sea diving  
 Diving bells  
 Diving equipment  
 Diving suits  
 Free-swimming vehicles  
 Mother ships  
 Self-propelled vehicles  
 Submarines

Submersibles (manned)  
 USE: **Submersibles**

Submersibles (unmanned)  
 USE: **Unmanned vehicles**

Suboceanic crust  
 USE: **Oceanic crust**

**Subpopulations**

SN: Subset of a population which comprises a self-sustained genetic unit  
 UF: Race  
 RT: Genotypes  
 Population genetics  
 Population structure  
 Racial studies  
 Stock identification  
 Unit stocks

**Subsea production systems**

RT: Oil and gas production  
 Wellheads

**Subsidence**

SN: Use only in tectonic context  
 BT: Epeirogeny  
 RT: Tectonics  
 Uplift

**Subsidies**

SN: Payment or benefit given to partially offset the cost of specific activities, such as the manufacture, production, or export of an article  
 BT: Grants  
 RT: Fishery aid  
 Fishery management  
 Food aid  
 Incentives  
 Production management  
 Socioeconomic aspects

**Subsistence aquaculture**

USE: **Small scale aquaculture**

**Subsistence fisheries**

SN: A fishery where the fish caught are shared and consumed directly by the families  
 BT: Fisheries

**Substrata**

UF: Substrates (physical)  
 NT: Artificial substrata  
 RT: Benthic environment  
 Benthos  
 Ecological zonation  
 Hard bottom habitats  
 Sessile species  
 Settling behaviour  
 Soft bottom habitats  
 Substrate preferences

**Substrate affinities**

USE: **Substrate preferences**

**Substrate preferences**

UF: Substrate affinities  
 RT: Algal settlements  
 Biological settlement  
 Colonization  
 Cultch  
 Larval settlement

Specificity  
 Substrata

Substrates (biochemistry)  
 USE: **Biochemical substrates**

Substrates (physical)  
 USE: **Substrata**

Subsurface buoyancy floats  
 USE: **Buoyancy floats**

**Subsurface currents**

BT: Water currents  
 NT: Deep currents  
 RT: Bottom currents  
 Lake currents  
 Ocean currents

**Subsurface deposits**

BT: Mineral deposits  
 NT: Fossil fuels  
 Phosphate deposits  
 RT: Deep-sea mining  
 Oil sands  
 Oil shale  
 Ores  
 Potash deposits  
 Salt deposits

**Subsurface drifters**

UF: Floats (subsurface)  
 Subsurface floats  
 BT: Drifters  
 NT: Seabed drifters  
 Swallow floats  
 RT: Lagrangian current measurement

**Subsurface floats**

USE: **Subsurface drifters**

**Subsurface water**

BT: Water masses

**Subtropical convergences**

BT: Oceanic convergences  
 RT: Gyres  
 Oceanic fronts

**Subtropical gyres**

USE: **Gyres**

**Subtropical jet stream**

USE: **Jet stream**

**Subtropical zones**

BT: Climatic zones

**Succession (ecological)**

USE: **Ecological succession**

**Suffocation**

USE: **Asphyxia**

**Sugars**

USE: **Saccharides**



Sulfide deposits  
USE: **Sulphide deposits**

Sulfur  
USE: **Sulphur**

**Sulphate minerals**  
BT: Minerals  
NT: Anhydrite  
Barite  
Gypsum  
Kainite  
Polyhalite  
RT: Sulphates  
Sulphide deposits

**Sulphate reduction**  
BT: Reduction  
RT: Biogeochemistry  
Sulphates

**Sulphates**  
SN: Before 1982 search  
SULPHUR COMPOUNDS  
BT: Sulphur compounds  
NT: Calcium sulphates  
Magnesium sulphates  
RT: Sulphate minerals  
Sulphate reduction  
Sulphide deposits

**Sulphide deposits**  
UF: Polymetallic sulphide  
deposits  
Sulfide deposits  
BT: Chemical sediments  
RT: Hydrothermal deposits  
Metalliferous sediments  
Seabed deposits  
Sulphate minerals  
Sulphates  
Sulphide minerals  
Sulphides

**Sulphide minerals**  
BT: Minerals  
NT: Greigite  
Pyrite  
Pyrrhotite  
RT: Sulphide deposits  
Sulphides

**Sulphides**  
SN: Before 1982 search  
SULPHUR COMPOUNDS  
BT: Sulphur compounds  
NT: Carbon sulphides  
Hydrogen sulphide  
Iron sulphides  
RT: Sulphide deposits  
Sulphide minerals

**Sulphites**  
SN: Before 1982 search  
SULPHUR COMPOUNDS  
BT: Sulphur compounds

**Sulphonates**  
BT: Sulphur compounds

**Sulphur**  
UF: Sulfur  
BT: Nonmetals  
RT: Sulphur compounds  
Sulphur isotopes

**Sulphur compounds**  
BT: Chemical compounds  
NT: Sulphates  
Sulphides  
Sulphites  
Sulphonates  
Sulphur oxides  
RT: Sulphur  
Sulphuric acid  
Volatile compounds

**Sulphur dioxide**  
BT: Sulphur oxides

**Sulphur isotopes**  
BT: Isotopes  
RT: Sulphur

**Sulphur oxides**  
BT: Oxides  
Sulphur compounds  
NT: Sulphur dioxide

**Sulphuric acid**  
BT: Inorganic acids  
RT: Sulphur compounds

Summaries  
USE: **Abstracts**

**Summer**  
BT: Seasons

**Sun**  
RT: Astronomy  
Solar-terrestrial activity  
Solar activity  
Solar cells  
Solar constant  
Solar eclipse  
Solar power  
Solar radiation  
Solar tides

Sun dried products  
USE: **Dried products**

**Sunburn**  
SN: Pathological condition  
ascribed to excessive level of  
ultraviolet irradiation  
BT: Fish diseases  
RT: Environmental diseases

Sunspots  
USE: **Solar activity**

**Supersaturation**  
BT: Saturation  
RT: Chemical precipitation  
Crystallization  
Dissolution  
Solubility

**Supply boats**  
BT: Ships  
RT: Support ships

Support craft  
USE: **Support ships**

**Support ships**  
SN: Applied to auxiliary ships of  
fishing fleets and from 1981 also  
to vessels serving oil rigs and  
other offshore installations  
UF: Support craft  
Work boats  
BT: Ships  
NT: Factory ships  
Mother ships  
RT: Crane barges  
Diving bells  
Diving equipment  
Emergency vessels  
Fishing vessels  
Supply boats  
Tugs

Suppressing  
USE: **Damping**

**Suppressors**  
RT: Acoustic insulation  
Damping

**Supralittoral zone**  
UF: Supratidal zone  
BT: Littoral zone  
RT: Sabkhas

Suprarenal glands  
USE: **Adrenal glands**

Supratidal zone  
USE: **Supralittoral zone**

**Surf**  
BT: Breaking waves  
RT: Beaches  
Surf zone  
Surfing  
Waves on beaches

**Surf beats**  
BT: Trapped waves

**Surf zone**  
UF: Breaker zone  
BT: Beach features  
RT: Breaking waves  
Longshore currents  
Nearshore dynamics  
Rip currents

Surf  
Undertow  
Wave dissipation  
Waves on beaches

Surface active agents  
USE: **Surfactants**

**Surface activity**  
RT: Surface properties

Surface area  
USE: **Area**

Surface boundary layer  
USE: **Atmospheric boundary layer**

**Surface chemistry**  
BT: Chemistry  
RT: Air-water exchanges  
Bubble bursting  
Foams  
Sea surface  
Surface films  
Surface microlayer  
Surface properties  
Surfactants

**Surface circulation**  
UF: Near-surface circulation  
BT: Water circulation  
RT: Lake dynamics  
Langmuir circulation  
Ocean circulation  
Surface currents  
Wind-driven circulation

**Surface clutter**  
UF: Sea clutter  
Sea surface clutter  
BT: Radar clutter

**Surface craft**  
SN: Use of a narrower term is recommended  
UF: Surface vessels  
Vessels  
BT: Vehicles  
NT: Barges  
Boats  
Dredgers  
Hovercraft  
Hydrofoils  
Inflatable craft  
New vessels  
Ships  
RT: Decommissioning  
Defence craft  
Drilling vessels  
Drydocks  
Emergency vessels  
Fishing vessels  
Floating structures  
Mining vessels  
Protection vessels  
Research vessels

Survey vessels  
Work platforms

**Surface currents**  
BT: Water currents  
NT: Contour currents  
RT: Lake currents  
Ocean currents  
Surface circulation  
Surface layers  
Wind-driven currents

**Surface drifters**  
BT: Drifters  
NT: Drift bottles  
Drift cards  
Drifting data buoys  
Drogues  
RT: Flotsam

**Surface Ekman layer**  
BT: Ekman layers  
RT: Oceanic boundary layer  
Wind-driven currents

Surface energy  
USE: **Surface tension**

**Surface films**  
UF: Films (surface)  
Oil films  
Slicks (surface)  
NT: Biofilms  
Monomolecular films  
RT: Capillarity  
Layers  
Oil slicks  
Sea surface  
Slicks  
Surface chemistry  
Surface microlayer  
Wave damping  
Windrows

Surface geometry (water waves)  
USE: **Wave geometry**

**Surface gravity waves**  
BT: Water waves  
RT: Cnoidal waves  
Nonlinear waves  
Seiches  
Solitary waves  
Storm surges  
Swell  
Tsunamis  
Wind waves

Surface layer temperature  
USE: **Surface temperature**

**Surface layers**  
BT: Water column  
NT: Near-surface layer  
Surface microlayer  
Surface mixed layer  
RT: Epilimnion

Langmuir circulation  
Surface currents  
Surface water  
Surface water masses  
Thermocline  
Upper ocean  
Wave interactions

**Surface microlayer**  
BT: Surface layers  
RT: Air-water interface  
Biofilms  
Monomolecular films  
Near-surface layer  
Sea surface  
Surface chemistry  
Surface films  
Surface radiation temperature  
Surfactants

**Surface mixed layer**  
BT: Mixed layer  
Surface layers  
RT: Atmospheric forcing  
Oceanic boundary layer  
Thermocline  
Thermocline decay  
Upper ocean

Surface navigation  
USE: **Navigation**

**Surface noise**  
SN: Wind-generated noise, wave breaking, etc.  
UF: Wind-generated noise  
BT: Ambient noise  
RT: Shipping noise

Surface of no motion  
USE: **Level of no motion**

Surface phenomena  
USE: **Surface properties**

**Surface potential**  
RT: Surface properties

**Surface properties**  
UF: Surface phenomena  
BT: Properties  
NT: Roughness  
Texture  
RT: Adhesion  
Adsorption  
Air-water interface  
Albedo  
Capillarity  
Desorption  
Emissivity  
Flotation  
Interface phenomena  
Optical properties  
Physical properties  
Sea surface  
Sorption  
Surface activity

- Surface chemistry  
 Surface potential  
 Surface tension  
 Surfaces  
 Surfactants  
 Water properties  
 Wave geometry  
 Windrows
- Surface radiation temperature**  
 UF: Brightness temperature  
 Skin temperature  
 BT: Surface temperature  
 RT: Air-water interface  
 Sea surface  
 Surface microlayer  
 Terrestrial radiation
- Surface roughness**  
 SN: Roughness of water surface  
 BT: Roughness  
 RT: Drag coefficient  
 Reflectance  
 Wind wave generation
- Surface salinity**  
 UF: Sea surface salinity  
 Water surface salinity  
 BT: Salinity  
 RT: Sea surface
- Surface seismic waves**  
 SN: Use of a more specific term is recommended  
 UF: Stoneley waves  
 Surface waves (seismic)  
 BT: Seismic waves  
 NT: Love waves  
 Rayleigh waves  
 RT: Ground motion
- Surface slope**  
 UF: Sea level slope  
 Sea surface slope  
 Water surface slope  
 RT: Dynamic topography  
 Geostrophic flow  
 Sea level  
 Sea surface  
 Surface topography  
 Wave slope
- Surface stress  
 USE: **Wind stress**
- Surface temperature**  
 SN: Before 1985 search also SEA  
 SURFACE TEMPERATURE  
 UF: Bucket temperature  
 Ocean surface temperature  
 Sea surface temperature  
 Surface layer temperature  
 Water surface temperature  
 BT: Water temperature  
 NT: Intake temperature  
 Surface radiation temperature  
 RT: Sea surface
- Surface tension**  
 UF: Interfacial tension  
 Surface energy  
 BT: Tension  
 RT: Capillarity  
 Capillary waves  
 Flotation  
 Interface phenomena  
 Surface properties  
 Surfactants
- Surface tension waves  
 USE: **Capillary waves**
- Surface topography**  
 SN: Before 1984 search also SEA  
 SURFACE TOPOGRAPHY  
 UF: Sea surface topography  
 Water surface topography  
 BT: Topography  
 RT: Dynamic topography  
 Geoid  
 Geoid anomalies  
 Marine geodesy  
 Satellite altimetry  
 Sea level  
 Sea level measurement  
 Sea surface  
 Surface slope
- Surface vessels  
 USE: **Surface craft**
- Surface water**  
 BT: Water  
 RT: Bottom water  
 Epilimnion  
 Evaporation  
 Groundwater recharge  
 Hyporheic zone  
 Shallow water  
 Surface layers  
 Surface water masses
- Surface water bodies  
 USE: **Water bodies**
- Surface water masses**  
 BT: Water masses  
 RT: Surface layers  
 Surface water  
 Upper ocean
- Surface water waves**  
 UF: Ocean waves  
 Surface waves (water)  
 BT: Water waves  
 NT: Breaking waves  
 Capillary waves  
 Long-crested waves  
 Seiches  
 Short-crested waves  
 Significant waves  
 Storm surges  
 Swell  
 Tidal waves
- Tsunamis  
 Wind waves  
 RT: Design wave  
 Directional spectra  
 Extreme waves  
 Interfacial waves  
 Near-surface layer  
 Sea state  
 Sea state scales  
 Sea surface  
 Short wave-long wave interactions  
 Wave analysis  
 Wave damping  
 Wave geometry  
 Wave measuring equipment  
 Wave scouring
- Surface wave-internal wave interactions**  
 BT: Wave-wave interaction  
 RT: Dead water  
 Internal wave generation  
 Internal waves
- Surface wave recorders  
 USE: **Wave recorders**
- Surface waves (seismic)  
 USE: **Surface seismic waves**
- Surface waves (water)  
 USE: **Surface water waves**
- Surfaces**  
 NT: Erosion surfaces  
 Isobaric surfaces  
 Isopycnic surfaces  
 Sea surface  
 RT: Area  
 Boundaries  
 Interfaces  
 Layers  
 Levels  
 Surface properties
- Surfacing behaviour**  
 BT: Behaviour
- Surfactants**  
 UF: Surface active agents  
 BT: Agents  
 RT: Detergents  
 Dispersants  
 Soaps  
 Surface chemistry  
 Surface microlayer  
 Surface properties  
 Surface tension
- Surfing**  
 BT: Recreation  
 RT: Bathing  
 Surf
- Surge-tide interaction  
 USE: **Tide-surge interaction**

**Surge response**

BT: Dynamic response  
RT: Buoy motion effects  
Surging

Surge waves

USE: **Surges**

**Surges**

UF: Surge waves  
NT: Storm surges  
RT: Seiches  
Tides  
Wave period  
Wind waves

Surges (beach)

USE: **Wave runup**

Surges (seiches)

USE: **Seiches**

Surges (storm)

USE: **Storm surges**

**Surging**

BT: Ship motion  
RT: Buoy motion effects  
Surge response

Surimi

USE: **Minced products**

**Surplus production**

SN: Net annual increase in the resource biomass in the absence of fishing, due to the difference between growth + recruitment minus natural mortality  
RT: Biomass  
Modelling  
Stock assessment

**Surrounding nets**

UF: Lampara nets  
BT: Fishing nets  
NT: Purse seines  
RT: Seiners  
Seining

**Surveillance and enforcement**

SN: Surveillance of marine space and enforcement of related laws  
UF: Enforcement  
Law enforcement  
Ocean surveillance  
Offshore protection  
Protection (security)  
Vessel seizure  
RT: Coastguards  
Defence craft  
Detection  
Fishery protection  
Military operations  
Observers  
Piracy

Protection vessels  
Regulatory compliance  
Security  
Smuggling

**Survey design**

RT: Aerial surveys  
Echo surveys  
Fishery charts  
Fishery resources  
Ichthyoplankton surveys  
Statistical analysis  
Statistical sampling  
Stock assessment

**Survey vessels**

RT: Hydrographic surveying  
Hydrographic surveys  
Research vessels  
Surface craft

**Surveying**

SN: Use of a more specific term is recommended  
NT: Hydrographic surveying  
Surveying underwater  
Topographic surveying  
RT: Cartography  
Compasses  
Locating  
Mapping  
Sampling  
Surveying equipment  
Surveys

**Surveying equipment**

BT: Equipment  
RT: Airborne equipment  
Diving equipment  
Photographic equipment  
Remote sensing equipment  
Sonar  
Surveying

**Surveying underwater**

UF: Underwater surveying  
BT: Surveying  
Working underwater  
RT: Diving  
Diving surveys  
Photogrammetry  
Seafloor sampling  
Sediment sampling  
Site surveys  
Stereophotography  
Underwater exploration  
Underwater photography  
Wreck location

**Surveys**

SN: Use of a more specific term is recommended  
NT: Aerial surveys  
Aeromagnetic surveys  
Biological surveys  
Diving surveys  
Echo surveys

Environmental surveys  
Fishery surveys  
Frame surveys  
Geochemical surveys  
Geological surveys  
Hydrographic surveys  
Resource surveys  
Site surveys  
RT: Baseline studies  
Bench marks  
Cartography  
Census  
Cruises  
Data collections  
Expeditions  
Exploration  
Mapping  
Surveying

**Survival**

UF: Survival aptitude  
Survival rate  
RT: Ecophysiology  
Escapement  
Lethal limits  
Mortality  
Mortality causes  
Starvation  
Sublethal effects  
Tolerance  
Toxicity

Survival aptitude

USE: **Survival**

**Survival at sea**

RT: Hypothermia  
Life jackets  
Lifeboats  
Marine accidents  
Search and rescue

Survival capsules

USE: **Lifeboats**

Survival of the fittest

USE: **Natural selection**

Survival rate

USE: **Survival**

Suspended culture

USE: **Off-bottom culture**

**Suspended inorganic matter**

SN: Before 1983 search also INORGANIC SUSPENDED MATTER  
UF: Inorganic suspended matter  
BT: Inorganic matter  
NT: Colloidal clay  
RT: Suspended organic matter  
Suspended particulate matter  
Turbidity  
Water colour

**Suspended load**

SN: Sediment in transport  
 UF: Suspended load transport  
 BT: Sediment load  
 RT: Bed load  
 Resuspended sediments  
 Resuspension  
 Sediment transport  
 Suspension

Suspended load transport  
 USE: **Suspended load**

Suspended matter  
 USE: **Suspended particulate matter**

**Suspended organic matter**

SN: Before 1983 search also  
 ORGANIC SUSPENDED  
 MATTER  
 UF: Organic suspended matter  
 RT: Biogenic material  
 Detritus  
 Sapropels  
 Suspended inorganic matter  
 Suspended particulate matter  
 Turbidity  
 Water colour

Suspended particle motion  
 USE: **Particle motion**

Suspended particles  
 USE: **Suspended particulate matter**

**Suspended particulate matter**

SN: Before 1984 search also  
 SUSPENDED MATTER  
 UF: Particulate matter  
 Particulates (aquatic)  
 Suspended matter  
 Suspended particles  
 Suspended solids  
 Suspensoids  
 BT: Particulates  
 NT: Resuspended sediments  
 RT: Biogeochemical cycle  
 Colloids  
 Detrital deposits  
 Detritus  
 Eolian dust  
 Flocculation  
 Marine snow  
 Nepheloid layer  
 Ocean colour  
 Particle concentration  
 Particle counters  
 Particle scattering  
 Particulate flux  
 River plumes  
 Sediment transport  
 Sediment traps  
 Sedimentation  
 Seston  
 Sinking

Suspended inorganic matter  
 Suspended organic matter  
 Suspension  
 Turbidity  
 Water colour

Suspended sediments  
 USE: **Resuspended sediments**

Suspended solids  
 USE: **Suspended particulate matter**

**Suspension**

NT: Resuspension  
 RT: Flocculation  
 Particle motion  
 Saltation  
 Sediment transport  
 Slurries  
 Suspended load  
 Suspended particulate matter

Suspension currents  
 USE: **Turbidity currents**

Suspension feeders  
 USE: **Filter feeders**

Suspensoids  
 USE: **Suspended particulate matter**

**Sustainability**

SN: Ability to persist in the long-term. Often used as a short hand for sustainable development.  
 NT: Sustainable development  
 RT: Bioeconomics  
 Sustainable aquaculture  
 Sustainable fishing

**Sustainable aquaculture**

SN: Aquaculture activities that do not cause or lead to undesirable changes in the biological and economic productivity, biological diversity, or ecosystem structure and functioning from one generation to the next.  
 UF: Responsible aquaculture  
 BT: Aquaculture  
 RT: Sustainability

**Sustainable development**

SN: Management and conservation of the natural resource base, and the orientation of technological and institutional change in such a manner as to ensure the attainment of continued satisfaction of human needs for present and future generations.  
 UF: Sustainable management  
 BT: Sustainability

RT: Ecosystem approach  
 Spatial planning

**Sustainable fishing**

SN: Fishing activities that do not cause or lead to undesirable changes in the biological and economic productivity, biological diversity, or ecosystem structure and functioning from one human generation to the next  
 UF: Responsible fisheries  
 BT: Fishing  
 RT: FAO Code of Conduct for Responsible Fisheries  
 Sustainability

Sustainable management  
 USE: **Sustainable development**

Sustainable yield  
 USE: **Potential yield**

**Sverdrup transport**

BT: Transport  
 RT: Mass transport  
 Ocean circulation  
 Wind-driven circulation  
 Wind-driven currents  
 Wind stress

**Swallow floats**

UF: Neutrally buoyant floats  
 BT: Subsurface drifters  
 NT: Sofar floats  
 RT: Acoustic transponders  
 Pingers

**Swamp fisheries**

BT: Inland fisheries  
 RT: Swamps

**Swamps**

SN: A swamp is a wetland that is forested  
 BT: Wetlands  
 NT: Mangrove swamps  
 RT: Bogs  
 Deltas  
 Fens  
 Marshes  
 Mires  
 Muskeg  
 Shallow water  
 Swamp fisheries

Swash  
 USE: **Wave runup**

**Swaths**

RT: Seafloor mapping

**Swaying**

BT: Ship motion

**Swell**

UF: Ground swell  
 BT: Surface water waves  
 NT: Rollers  
 RT: Beach cusps  
 Surface gravity waves  
 Wind waves

**Swept area**

SN: The area of seabed swept by the trawl net during a fishing operation. Used in assessing the standing stock of demersal fish species and impact of fishing on the seabed  
 BT: Area  
 RT: Environmental assessment  
 Stock assessment  
 Trawling

**Swim bladder**

SN: Considered as hydrostatic organ  
 UF: Air bladder  
 Gas bladders  
 BT: Bladders  
 RT: Buoyancy  
 Flotation  
 Hydrostatic behaviour  
 Swimming  
 Whirling disease

**Swimming**

SN: Restricted to aquatic organisms. For recreational swimming use BATHING. Before 1982 search LOCOMOTION  
 BT: Locomotion  
 RT: Fins  
 Swim bladder

Swimming (recreation)

USE: **Bathing**

Swordfish fisheries

USE: **Tuna fisheries**

Syllabuses

USE: **Curricula**

**Symbionts**

UF: Ectosymbionts  
 Endosymbionts  
 RT: Commensals  
 Epiphytes  
 Symbiosis  
 Zooxanthellae

**Symbiosis**

UF: Mutualism  
 BT: Interspecific relationships  
 RT: Cleaning behaviour  
 Commensalism  
 Epibiosis  
 Parasites  
 Symbionts

Sympathetic nervous system

USE: **Autonomic nervous system**

**Sympatric populations**

SN: Populations of two or more closely related species living in the same geographical area or having overlapped geographical areas  
 RT: Allopatric populations  
 Geographical distribution  
 Population genetics

Symposia

USE: **Conferences**

**Symptoms**

UF: Syndromes  
 NT: Exophthalmia  
 Haemorrhage  
 Necroses  
 RT: Disease detection  
 Diseases  
 Medicine

**Synapses**

SN: Area of functional contact between two nerve cells  
 RT: Nervous system  
 Neurons  
 Neurotransmitters

**Synclines**

BT: Folds  
 RT: Anticlines  
 Geosynclines

Syndromes

USE: **Symptoms**

**Synecology**

UF: Biosociology  
 BT: Ecology  
 RT: Adaptations  
 Aquatic communities  
 Ecological associations  
 Environmental effects

Synergetic effects

USE: **Synergism**

**Synergism**

UF: Synergetic effects  
 Synergists  
 RT: Antagonism  
 Behaviour  
 Physiology

Synergists

USE: **Synergism**

Syngamy

USE: **Biological fertilization**

**Synonymy**

UF: Alternative name

Synonymism

RT: Taxonomy  
 Terminology

Synonymism

USE: **Synonymy**

**Synopsis**

SN: Comprehensive study on taxonomy and biology of a species  
 UF: Monographs  
 RT: Documents  
 Taxonomy

**Synthetic aperture radar**

BT: Microwave radar  
 RT: Scatterometers

Synthetic fibers

USE: **Synthetic fibres**

Synthetic fibre rope

USE: **Fibre rope (synthetic)**

**Synthetic fibres**

SN: Any types of synthetic fibres used for construction of nets, ropes, etc.  
 UF: Synthetic fibers  
 RT: Fibre rope (synthetic)  
 Netting materials  
 Plastics  
 Yarns

Synthetic sea water

USE: **Artificial seawater**

**System analysis**

SN: Including flow charting  
 UF: Systems analysis  
 RT: Computer programs  
 Mathematical models  
 Methodology  
 Operations research  
 Simulation  
 Statistical models

Systematics

USE: **Taxonomy**

Systems analysis

USE: **System analysis**

**T-S diagrams**

UF: T/S curves  
 T/S diagrams  
 BT: Graphs  
 RT: Core layer method  
 Core layers (water)  
 Salinity  
 Vertical profiles  
 Water masses  
 Water temperature  
 Water types

T/S curves  
USE: **T-S diagrams**

T/S diagrams  
USE: **T-S diagrams**

Tablemounts  
USE: **Guyots**

**Tables**  
SN: Tabulations of predicted values or of conversions of units. Use of a more specific term is recommended  
UF: Mathematical tables  
Tables (data)  
Tables (mathematics)  
BT: Documents  
NT: Almanacs  
Conversion tables  
Decompression tables  
Meteorological tables  
Navigational tables  
Oceanographic tables  
Statistical tables  
Tide tables

Tables (data)  
USE: **Tables**

Tables (mathematics)  
USE: **Tables**

Tables (statistical)  
USE: **Statistical tables**

Tables (tides)  
USE: **Tide tables**

Tabular bergs  
USE: **Icebergs**

**Tactile functions**  
BT: Sense functions  
RT: Tactile organs

**Tactile organs**  
BT: Sense organs  
RT: Barbels  
Tactile functions  
Tactile stimuli

**Tactile stimuli**  
BT: Stimuli  
RT: Tactile organs

Tag returns  
USE: **Tagging**

Tag shedding  
USE: **Tags**

**Tagging**  
UF: Tag returns  
RT: Biotelemetry  
Capture-recapture studies  
Marking

Tagging mortality  
Tags  
Tracking

**Tagging mortality**  
BT: Mortality  
RT: Tagging

**Tags**  
SN: Before 1982 search  
TAGGING. Restricted to tags for aquatic organisms  
UF: Tag shedding  
NT: RFID tags  
Sonic tags  
RT: Tagging

Tags (acoustic)  
USE: **Sonic tags**

Talks  
USE: **Lectures**

Talweg  
USE: **Thalweg**

Tangential stresses  
USE: **Shear stress**

Tangle  
USE: **Kelps**

Tangle nets  
USE: **Gillnets**

**Tank cleaning**  
BT: Cleaning  
RT: Tanks

**Tanker loading**  
SN: Loading/unloading operations for oil tankers  
RT: Floating hoses  
Loading buoys  
Offshore operations  
Tanker ships  
Tanker terminals

**Tanker ships**  
UF: Oil tankers  
Tankers  
BT: Merchant ships  
RT: Submarine tankers  
Tanker loading  
Tanker terminals

**Tanker terminals**  
UF: Oil terminals  
Terminals (oil)  
BT: Harbours  
NT: Deep-water terminals  
Offshore terminals  
RT: Gas terminals  
Offshore docking  
Tanker loading  
Tanker ships

Tankers  
USE: **Tanker ships**

**Tanks**  
SN: Description of tanks, their construction and use  
UF: Water tanks  
BT: Containers  
NT: Culture tanks  
Evaporation tanks  
Oil tanks  
Storage tanks  
Towing tanks  
Wave tanks  
RT: Tank cleaning

Tanner crab fisheries  
USE: **Crab fisheries**

**Tantalum**  
BT: Heavy metals

Tape recordings (sound)  
USE: **Audio recordings**

Taphrogeny  
USE: **Rifting**

**Tar**  
BT: Petroleum hydrocarbons  
RT: Oil sands  
Petroleum residues  
Tar balls

**Tar balls**  
BT: Solid impurities  
RT: Oil pollution  
Petroleum residues  
Tar

Tar sands  
USE: **Oil sands**

**Target cells**  
BT: Receptors  
RT: Antibodies  
Hormones

**Target strength**  
RT: Fish detection  
Fish sizing  
Sound reflection

Tarns  
USE: **Glacial lakes**

**Taste**  
SN: Before 1982 search  
ORGANOLEPTIC  
PROPERTIES  
UF: Flavor  
Flavour  
Gustation  
BT: Organoleptic properties  
RT: Off flavour  
Palatability  
Taste functions  
Taste tests

**Taste functions**

BT: Sense functions  
RT: Taste  
Taste organs

**Taste organs**

BT: Sense organs  
RT: Chemoreceptors  
Taste functions

**Taste tests**

UF: Flavour tests  
Palatability tests  
BT: Tests  
RT: Palatability  
Taste

Tax rates

USE: **Taxes**

**Taxa**

NT: Microbiological strains  
New taxa  
Species  
RT: Plant strains  
Taxonomy

Taxation

USE: **Taxes**

**Taxes**

UF: Rates and taxes  
Tax rates  
Taxation  
RT: Operational costs

**Taxis**

BT: Orientation behaviour  
NT: Chemotaxis  
Phototaxis  
Rheotaxis

Taxonomic keys

USE: **Identification keys**

**Taxonomists**

BT: Biologists  
RT: Algologists  
Botanists  
Carcinologists  
Entomologists  
Ichthyologists  
Malacologists  
Taxonomy  
Zoologists

**Taxonomy**

UF: Biological classification  
Classification (biological)  
Systematics  
BT: Classification  
NT: Chemotaxonomy  
Numerical taxonomy  
Serological taxonomy  
RT: Biological speciation  
Botany

Cladistics  
Cryptic species  
DNA barcoding  
Holotypes  
Identification keys  
Lectotype  
Meristic counts  
Microbiology  
Organism morphology  
Palaeontology  
Palynology  
Phylogenetics  
Phylogeny  
Species identification  
Synonymy  
Synopsis  
Taxa  
Taxonomists  
Typology  
Zoology

Teaching

USE: **Education**

Teaching aids

USE: **Training aids**

**Technetium**

BT: Heavy metals  
Transition elements  
RT: Technetium compounds  
Technetium isotopes

**Technetium compounds**

BT: Chemical compounds  
RT: Technetium

**Technetium isotopes**

BT: Isotopes  
RT: Technetium

**Technical feasibility**

UF: Technological feasibility  
BT: Feasibility  
RT: Technology

**Technicians**

BT: Experts  
NT: Aquaculturists  
RT: Scientific personnel  
Technology

Technological feasibility

USE: **Technical feasibility**

Technological knowledge

USE: **Technology**

**Technology**

UF: Technological knowledge  
NT: Appropriate technology  
Biotechnology  
Fibre optics  
Fishery technology  
Fishing technology  
Food technology  
Geotechnology

Marine technology  
Materials technology  
Metallurgy  
Ship technology  
RT: Engineering  
Methodology  
Technical feasibility  
Technicians  
Technology transfer

**Technology transfer**

UF: Innovation processes  
Transfer of technologies  
BT: Innovations  
RT: Development projects  
Extension activities  
Fishery aid  
International cooperation  
Online instruction  
Technology

Tectonic plates

USE: **Plates**

**Tectonics**

UF: Geotectonics  
BT: Geology  
NT: Epeirogeny  
Orogeny  
Plate tectonics  
Vertical tectonics  
RT: Marine geology  
Nappes  
Rifting  
Structural basins  
Structural geology  
Subsidence  
Tectonophysics

**Tectonophysics**

UF: Geodynamics  
BT: Geophysics  
RT: Continental drift  
Earth crust  
Moho  
Tectonics

**Teeth**

BT: Mouth parts  
RT: Radulae

Tektites

USE: **Extraterrestrial material**

Telecommunications

USE: **Communication systems**

**Teleconnections**

SN: Correlations between oceanographic and climatic events thousands of miles apart  
RT: Air-sea interaction  
El Nino phenomena  
Ocean-atmosphere system  
Solar-terrestrial activity  
Temperature anomalies  
Varves



Teledetection

USE: **Geosensing**

Telemetering

USE: **Telemetry**

### Telemetry

UF: Telemetering

Telemetry systems

BT: Measurement

NT: Acoustic telemetry

Biotelemetry

Radio telemetry

RT: Communication systems

Data transmission

Monitoring systems

Satellite communication

Signal processing

Telemetry systems

USE: **Telemetry**

### Telephone systems

SN: Before 1983 search

TELEPHONES

UF: Telephones

BT: Communication systems

RT: Internet

Social media

Submarine cables

Telephones

USE: **Telephone systems**

Television

USE: **Television systems**

### Television systems

SN: Before 1982 search

TELEVISION

UF: Television

Video networks

BT: Communication systems

NT: Underwater television

RT: Cameras

Radio

### Telex

BT: Communication systems

### Telluric currents

UF: Earth currents

BT: Electric currents

RT: Coast effect

Geomagnetic field

Magnetotelluric methods

Tidal currents

### Tellurium

BT: Heavy metals

RT: Tellurium isotopes

### Tellurium isotopes

BT: Isotopes

RT: Tellurium

### Tellurometers

BT: Measuring devices

### Telson

BT: Animal appendages

### Temperate zones

BT: Climatic zones

### Temperature

BT: Thermodynamic properties

NT: Air temperature

Body temperature

Low temperature

Potential temperature

Sediment temperature

Temperature (air-sea)

Transition temperatures

Water temperature

RT: Heat

Heat budget

Heat transfer

Temperature anomalies

Temperature data

Temperature differences

Temperature fields

Temperature measurement

Temperature tolerance

Thermal radiation

Thermodynamics

Thermometers

Thermoreceptors

### Temperature (air-sea)

BT: Temperature

RT: Hurricanes

### Temperature anomalies

BT: Anomalies

RT: Solar-terrestrial activity

Teleconnections

Temperature

### Temperature charts

SN: Charts showing distribution of water temperature

BT: Hydrographic charts

RT: Isotherms

Temperature data

Temperature sections

Water temperature

Temperature contours

USE: **Isotherms**

### Temperature data

BT: Data

NT: Water temperature data

RT: Temperature

Temperature charts

Temperature differences

Temperature gradients

Temperature profiles

Temperature sections

### Temperature differences

NT: Air-water temperature difference

RT: Artificial upwelling

Heat transfer

Temperature

Temperature data

### Temperature effects

BT: Environmental effects

NT: Cold shock

Heat shock

RT: Bioclimatology

Post harvest losses

Pyrolysis

Temperature preferences

Temperature tolerance

Thermal aquaculture

Thermal stimuli

Water temperature

Winterkill

### Temperature fields

BT: Fields

RT: Temperature

### Temperature gradients

UF: Adiabatic lapse rates

Adiabatic temperature gradient

NT: Geothermal gradient

RT: Double diffusion

Temperature data

Temperature inversions

Temperature profiles

Thermal stratification

Thermal structure

Thermocline

Water temperature

Temperature inversion layers

USE: **Temperature inversions**

### Temperature inversions

UF: Dicotermal layer

Temperature inversion layers

BT: Inversions

RT: Temperature gradients

Thermal stratification

Vertical stability

### Temperature maximum layer

BT: Core layers (water)

RT: Temperature minimum layer

Temperature profiles

### Temperature measurement

UF: Temperature measuring

BT: Measurement

NT: Geothermal measurement

RT: Temperature

Temperature measuring

USE: **Temperature measurement**

### Temperature minimum layer

BT: Core layers (water)

RT: Temperature maximum layer

Temperature profiles

**Temperature preferences**

SN: Optimum temperature conditions for an organism  
 UF: Preferred temperature  
 RT: Temperature effects  
 Temperature tolerance  
 Thermal aquaculture

**Temperature profiles**

BT: Vertical profiles  
 RT: CTD profilers  
 STD profiles  
 Temperature data  
 Temperature gradients  
 Temperature maximum layer  
 Temperature minimum layer  
 Temperature sections  
 Water temperature

**Temperature sections**

BT: Hydrographic sections  
 RT: Bathythermographic data  
 Cold water masses  
 Isotherms  
 Temperature charts  
 Temperature data  
 Temperature profiles  
 Thermal stratification  
 Thermal structure  
 Vertical distribution  
 Water temperature

**Temperature tolerance**

UF: Cold tolerance  
 Heat tolerance  
 Thermal tolerance  
 BT: Tolerance  
 RT: Aestivation  
 Cold resistance  
 Cryobiology  
 Eurythermy  
 Homoiothermy  
 Indicator species  
 Stenothermy  
 Temperature  
 Temperature effects  
 Temperature preferences  
 Thermal stimuli  
 Thermoregulation

**Templates**

SN: Pertains to underwater drilling  
 RT: Drilling  
 Wellheads

**Temporal distribution**

BT: Distribution  
 NT: Monthly distribution  
 Seasonal distribution  
 RT: Geological time  
 Quantitative distribution  
 Temporal variations

**Temporal variations**

UF: Changes (time)

Variations (time)  
 NT: Long-term changes  
 Periodic variations  
 Short-term changes  
 RT: Oscillations  
 Phenology  
 Temporal distribution  
 Time series  
 Time series analysis  
 Variability

Temporary lakes  
 USE: **Intermittent lakes**

Temporary plankton  
 USE: **Meroplankton**

**Temporary ponds**

SN: Natural water bodies which remain dry for part of the year  
 UF: Seasonal ponds  
 Vernal pools  
 BT: Ephemeral water bodies  
 Ponds  
 RT: Drought resistance  
 Droughts  
 Ephemeral lakes  
 Ephemeral springs  
 Ephemeral streams  
 Temporary water bodies

Temporary rivers  
 USE: **Intermittent rivers**

**Temporary water bodies**

SN: A temporary water body is a wetland, spring, stream, river, pond or lake that only exists for a period of time i.e. is not perennial. They can be ephemeral or intermittent. Ephemeral water bodies exist for only a short time following precipitation or snowmelt - they are not the same as intermittent or seasonal water bodies, which exist for longer periods, but are still not perennial.  
 UF: Temporary waters  
 BT: Water bodies  
 NT: Ephemeral water bodies  
 Intermittent water bodies  
 RT: Ephemeral lakes  
 Ephemeral springs  
 Ephemeral streams  
 Temporary ponds

Temporary waters  
 USE: **Temporary water bodies**

Tendous musculature  
 USE: **Muscles**

**Tensile strength**

BT: Strength  
 RT: Deformation  
 Elasticity

Poisson's ratio  
 Shear strength  
 Stress-strain relations  
 Tension

Tensiometers  
 USE: **Tensometers**

**Tension**

BT: Stress (mechanics)  
 NT: Surface tension  
 RT: Tensile strength

**Tension leg platforms**

UF: Tethered buoyant platforms  
 BT: Fixed platforms  
 RT: Floating structures

**Tensometers**

UF: Tensiometers  
 BT: Measuring devices

**Tentacles**

BT: Animal appendages  
 NT: Sense tentacles  
 RT: Polyps

**Tenure rights**

USE: **Property rights**

**Tephra**

BT: Volcanic rocks  
 NT: Volcanic breccia  
 Volcanic lapilli  
 RT: Ash layers  
 Clastics  
 Sedimentary rocks  
 Volcanic eruptions

**Teratogens**

SN: Agents that raise the incidence of congenital malformations  
 RT: Genetic abnormalities  
 Teratology

**Teratology**

SN: Science treating malformations and monstrosities of plants and animals. Before 1982 search ABNORMALITIES  
 RT: Genetic abnormalities  
 Teratogens

**Terbium**

BT: Lanthanides

**Terminals (oil)**

USE: **Tanker terminals**

**Terminology**

SN: Standardization of common or scientific names and definition of technical or biological terms  
 UF: Definitions  
 Nomenclature

RT: Acronyms  
Glossaries  
Standardization  
Standards  
Synonymy  
Thesaurus  
Vernacular names

**Terpenes**

UF: Monoterpenes  
BT: Polyunsaturated hydrocarbons  
RT: Antibiotics  
Seaweeds

**Terraces**

UF: Deep-sea terraces  
Submarine terraces  
BT: Topographic features  
NT: Alluvial terraces  
RT: Beach morphology  
Fluvial morphology  
Raised beaches  
Strandlines  
Wave-cut platforms

Terrestrial atmosphere  
USE: **Earth atmosphere**

Terrestrial magnetism  
USE: **Geomagnetism**

**Terrestrial radiation**

SN: Use for long wave radiation component of atmosphere  
UF: Long wave radiation  
Net terrestrial radiation  
BT: Electromagnetic radiation  
NT: Downward long wave radiation  
Upward long wave radiation  
RT: Cloud cover  
Greenhouse effect  
Infrared radiation  
Radiation balance  
Radiative transfer  
Surface radiation temperature

Terrigenous deposits  
USE: **Terrigenous sediments**

**Terrigenous sediments**

UF: Terrigenous deposits  
BT: Sediments  
RT: Clastics  
Eolian deposits  
Eolian dust  
Flysch  
Glacial deposits  
Turbidites  
Volcanic ash  
Volcanogenic deposits

Territorial behaviour  
USE: **Territoriality**

Territorial boundaries  
USE: **Boundaries**

Territorial seas  
USE: **Territorial waters**

**Territorial waters**

UF: Territorial seas  
BT: Ocean space  
RT: Coastal states  
Contiguous zones  
Continental shelves  
Exclusive economic zone  
Fishing rights  
International boundaries  
Piracy

**Territoriality**

SN: Animal behaviour related to defending a territory from intruders. Before 1984 search also TERRITORIAL BEHAVIOUR  
UF: Territorial behaviour  
BT: Behaviour  
RT: Aggressive behaviour  
Competitive behaviour  
Dominance hierarchies  
Home range

Territory  
USE: **Home range**

**Tertiary**

SN: Before 1982 search  
TERTIARY PERIOD  
BT: Cenozoic  
NT: Neogene  
Palaeogene

**Test equipment**

SN: Equipment used for testing apparatus and efficiency of gear  
UF: Test facilities  
BT: Equipment  
RT: Electronic equipment  
Hydraulic models  
Laboratory equipment  
Measuring devices  
Sensors  
Testing  
Tests  
Towing tanks  
Wave tanks  
Wind tunnels

Test facilities  
USE: **Test equipment**

Test fishing  
USE: **Experimental fishing**

Test methods  
USE: **Tests**

**Test organisms**  
BT: Aquatic organisms  
RT: Bioassays  
Indicator species

Toxicity tests

**Testes**

BT: Gonads  
RT: Castration  
Fecundity  
Gonadosomatic index  
Spermatogenesis  
Sterility

**Testing**

NT: Biotesting  
Materials testing  
RT: Acceptability  
Calibration  
Inspection  
Intercomparison  
Performance assessment  
Quality control  
Test equipment  
Tests

**Testosterone**

BT: Sex hormones  
RT: Sex characters  
Sex determination

**Tests**

SN: More specific term is recommended  
UF: Laboratory tests  
Test methods  
NT: Acceptance tests  
Bioassays  
Taste tests  
Toxicity tests  
RT: Accuracy  
Analysis  
Certification  
Procedures  
Quality assurance  
Test equipment  
Testing

Tests for significant differences  
USE: **Statistical analysis**

Tethered buoyant platforms  
USE: **Tension leg platforms**

**Tethered free-swimming vehicles**

BT: Free-swimming vehicles  
Tethered vehicles

**Tethered vehicles**

SN: Underwater vehicles cable controlled and/or powered through a surface connecting cable. Before 1982 search TOWED BODIES  
BT: Underwater vehicles  
NT: Tethered free-swimming vehicles  
RT: Diving bells  
Observation chambers  
Seabed vehicles  
Towed vehicles

**Tetrodotoxin**

BT: Biological poisons  
RT: Neurotoxins

**Texture**

BT: Surface properties  
NT: Sediment texture  
RT: Porosity

Thalassothermal power

USE: **OTEC**

**Thallium**

BT: Heavy metals

**Thallus**

BT: Plant organs

**Thalweg**

SN: A line connecting the lowest points along a stream bed or a valley

UF: Talweg  
Valley line

BT: Horizontal profiles

RT: River valleys  
Submarine canyons

Thaw-drip

USE: **Thawing**

**Thawing**

SN: Thawing of frozen products. For melting of ice/snow on land and in frozen soil, use ICE MELTING. For preventing and removing rime and glaze from decks, superstructures, equipment, etc., use DE-ICING

UF: Defrosting  
Thaw-drip

RT: Deicing  
Freezing  
Frozen products  
Ice melting  
Refrigeration

**Theories**

SN: A working hypothesis given probable validity by experimental evidence. Use of a more specific term is recommended

UF: Theory  
RT: Fishery sciences  
Mathematical models  
Research

Theory

USE: **Theories**

**Therapy**

UF: Disease treatment  
Treatment for diseases  
RT: Cancer  
Disease control  
Disease detection

Diseases

Drugs

Immunology

Medicine

Pathology

Pharmacology

Prophylaxis

**Thermal aquaculture**

UF: Heated effluent systems

Thermal fish farming

BT: Aquaculture techniques

RT: Cage culture

Fish culture

Freshwater aquaculture

Open systems

Pond culture

Shellfish culture

Temperature effects

Temperature preferences

Thermal plumes

Thermal pollution

Warm-water aquaculture

Waste heat

Thermal capacity

USE: **Specific heat**

**Thermal conductivity**

UF: Conductivity (thermal)

BT: Thermodynamic properties

RT: Eddy conductivity

Geothermal gradient

Heat conduction

Heat flow

Ice properties

Specific heat

Thermal diffusivity

Water properties

Thermal convection

USE: **Cellular convection**

**Thermal decomposition**

BT: Degradation

RT: River plumes

Thermal plumes

Thermal pollution

Thermodynamic properties

**Thermal diffusion**

BT: Diffusion

RT: Thermal diffusivity

Thermal plumes

**Thermal diffusivity**

UF: Thermometric conductivity

BT: Thermodynamic properties

RT: Eddy diffusivity

Thermal conductivity

Thermal diffusion

Water properties

**Thermal domes**

RT: Thermal structure

Thermal effluents

USE: **Thermal pollution**

Thermal equilibrium

USE: **Thermodynamic equilibrium**

**Thermal expansion**

UF: Thermal expansion coefficient

BT: Thermodynamic properties

RT: Specific volume

Water properties

Thermal expansion coefficient

USE: **Thermal expansion**

Thermal fish farming

USE: **Thermal aquaculture**

**Thermal fronts**

BT: Fronts

RT: Tidal fronts

Thermal imagery

USE: **Infrared imagery**

Thermal infrared imagery

USE: **Infrared imagery**

Thermal insulation

BT: **Insulating materials**

Thermal IR imagery

USE: **Infrared imagery**

**Thermal microstructure**

SN: Variations in the distribution of temperature on a scale of 10 cm or less

BT: Microstructure

RT: Water temperature

**Thermal plumes**

SN: Plumes caused by discharge of heated effluents in lakes, estuaries or marine coastal zones

BT: Plumes

RT: Thermal aquaculture

Thermal decomposition

Thermal diffusion

Thermal pollution

Water mixing

**Thermal pollution**

UF: Thermal effluents

BT: Pollution

RT: Cooling ponds

Cooling water

Heat

Radioactive wastes

Thermal aquaculture

Thermal decomposition

Thermal plumes

Thermodynamic properties

Water pollution

Water temperature

**Thermal power**

BT: Power from the sea  
 NT: Geothermal power  
 OTEC  
 RT: Artificial upwelling

Thermal properties

USE: **Thermodynamic properties**

**Thermal radiation**

UF: Heat radiation  
 BT: Radiations  
 RT: Electromagnetic radiation  
 Heat  
 Heat transfer  
 Solar radiation  
 Temperature  
 Thermodynamic properties  
 Ultraviolet radiation

Thermal springs (geothermal)

USE: **Geothermal springs**

Thermal springs (hot)

USE: **Hot springs**

Thermal springs (hydrothermal)

USE: **Hydrothermal springs**

**Thermal stimuli**

BT: Stimuli  
 RT: Body temperature  
 Temperature effects  
 Temperature tolerance  
 Thermodynamic properties  
 Thermoregulation

**Thermal stratification**

UF: Stratification (thermal)  
 BT: Stratification  
 RT: Cold water masses  
 Discontinuity layers  
 Epilimnion  
 Heat budget  
 Hypolimnion  
 Intermediate water masses  
 Metalimnion  
 Physical limnology  
 Physical oceanography  
 Sound channels  
 Temperature gradients  
 Temperature inversions  
 Temperature sections  
 Thermal structure  
 Thermocline  
 Thermodynamic properties  
 Water circulation  
 Water temperature

**Thermal structure**

RT: Atmospheric forcing  
 Hurricanes  
 Temperature gradients  
 Temperature sections  
 Thermal domes  
 Thermal stratification  
 Thermocline

Thermostads

Water temperature

Thermal tolerance

USE: **Temperature tolerance**

Thermistor arrays

USE: **Thermistor chains**

**Thermistor chains**

UF: Thermistor arrays  
 BT: Arrays  
 RT: Oceanographic equipment  
 Thermistors

**Thermistors**

RT: Electronic equipment  
 Flowmeters  
 Thermistor chains  
 XBTs

**Thermocline**

BT: Discontinuity layers  
 NT: Diurnal thermocline  
 Permanent thermocline  
 Seasonal thermocline  
 RT: Clines  
 Environmental factors  
 Epilimnion  
 Hypolimnion  
 Isotherms  
 Metalimnion  
 Mixed layer depth  
 Pycnocline  
 Surface layers  
 Surface mixed layer  
 Temperature gradients  
 Thermal stratification  
 Thermal structure  
 Thermocline decay  
 Vertical distribution  
 Water column  
 Water masses  
 Water temperature

Thermocline (lakes)

USE: **Metalimnion**

**Thermocline decay**

UF: Erosion (thermocline)  
 Thermocline erosion  
 RT: Surface mixed layer  
 Thermocline

Thermocline depth

USE: **Mixed layer depth**

Thermocline erosion

USE: **Thermocline decay**

**Thermocouple arrays**

BT: Arrays  
 RT: Thermocouples

**Thermocouples**

RT: Electronic equipment  
 Thermocouple arrays

**Thermodynamic activity**

UF: Activity coefficient  
 Chemical activity  
 BT: Thermodynamic properties  
 RT: Chemical equilibrium  
 Chemical reactions  
 Thermodynamics

**Thermodynamic equilibrium**

UF: Thermal equilibrium  
 BT: Equilibrium  
 Thermodynamic properties  
 RT: Chemical equilibrium  
 Thermodynamics

**Thermodynamic properties**

SN: Before 1982 search  
 THERMAL PROPERTIES  
 UF: Heat properties  
 Thermal properties  
 BT: Physical properties  
 NT: Enthalpy  
 Entropy  
 Free energy  
 Specific heat  
 Temperature  
 Thermal conductivity  
 Thermal diffusivity  
 Thermal expansion  
 Thermodynamic activity  
 Thermodynamic equilibrium  
 RT: Chemical properties  
 Electrical properties  
 Heat  
 Thermal decomposition  
 Thermal pollution  
 Thermal radiation  
 Thermal stimuli  
 Thermal stratification  
 Thermodynamics  
 Vapour pressure

**Thermodynamics**

BT: Physics  
 RT: Adiabatic processes  
 Enthalpy  
 Entropy  
 Equations of state  
 Heat  
 Heat sinks  
 Heat transfer  
 Isothermal processes  
 Phase changes  
 Temperature  
 Thermodynamic activity  
 Thermodynamic equilibrium  
 Thermodynamic properties

**Thermohaline circulation**

BT: Ocean circulation  
 NT: Haline circulation  
 RT: Wind-driven circulation

**Thermometers**

UF: Deep-sea thermometers  
 Reversing thermometers  
 BT: Measuring devices  
 RT: Bathythermographs  
 CTD profilers  
 STD profilers  
 Temperature

Thermometric conductivity

USE: **Thermal diffusivity**

Thermophototropism

USE: **Phototropism**

**Thermoreceptors**

BT: Receptors  
 RT: Temperature  
 Thermoregulation

**Thermoregulation**

UF: Thermoregulators  
 Thermoregulatory behaviour  
 RT: Aestivation  
 Body temperature  
 Dormancy  
 Hibernation  
 Homiothermy  
 Poikilothermy  
 Temperature tolerance  
 Thermal stimuli  
 Thermoreceptors

Thermoregulators

USE: **Thermoregulation**

Thermoregulatory behaviour

USE: **Thermoregulation**

**Thermostads**

RT: Thermal structure  
 Water masses  
 Water temperature

**Thermosteric anomalies**

BT: Specific volume anomalies  
 RT: In situ density  
 Isothermal processes

**Thesaurus**

BT: Documents  
 RT: Terminology

Thiamine

USE: **Vitamin B**

**Thickness**

BT: Dimensions  
 NT: Crustal thickness  
 Ice thickness  
 RT: Depth

**Thixotropy**

RT: Gels

**Tholeiite**

BT: Basalts

RT: Pyroxenes

Quartz  
 Silica  
 Tholeiitic basalt

**Tholeiitic basalt**

BT: Basalts  
 RT: Tholeiite

**Thorax**

BT: Body regions  
 RT: Animal appendages  
 Cephalothorax

**Thorium**

BT: Actinides  
 RT: Monazite  
 Thorium compounds  
 Thorium isotopes

**Thorium 230-thorium 232 dating**

BT: Radiometric dating  
 RT: Thorium isotopes

**Thorium compounds**

BT: Actinide compounds  
 RT: Thorium

**Thorium isotopes**

BT: Isotopes  
 RT: Thorium  
 Thorium 230-thorium 232  
 dating

**Threatened species**

SN: Likely to become an  
 endangered species within the  
 foreseeable future through all or  
 a significant proportion of its  
 range. "Threatened" is an official  
 term on the IUCN Red List  
 BT: Species  
 RT: Aquatic animals  
 Aquatic plants  
 Nature conservation  
 Rare species  
 Species extinction  
 Vulnerable species

Three phase flow

USE: **Multiphase flow**

**Threonine**

BT: Amino acids

**Thrust faults**

BT: Faults

**Thrusters**

BT: Propulsion systems  
 RT: Dynamic positioning  
 Propellers  
 Shipboard equipment

**Thunderstorms**

BT: Storms  
 RT: Lightning

**Thymus**

SN: Before 1982 search  
 ENDOCRINE GLANDS  
 BT: Endocrine glands

**Thyroid**

SN: Before 1982 search  
 ENDOCRINE GLANDS  
 UF: Parathyroid  
 BT: Endocrine glands  
 RT: Nervous system

**Tidal amplitude**

BT: Wave amplitude  
 RT: Astronomical tides  
 Tidal power  
 Tidal range  
 Tidal waves

**Tidal analysis**

BT: Wave analysis  
 RT: Fourier analysis  
 Harmonic analysis  
 Response analysis  
 Tidal constants  
 Tidal constituents  
 Tidal motion  
 Tidal perturbation  
 Tidal prediction  
 Tide generating potential  
 Tides  
 Time series analysis

**Tidal barrages**

BT: Barrages  
 RT: Storm surge barriers  
 Tidal power  
 Tidal power plants

Tidal barriers

USE: **Storm surge barriers**

**Tidal bores**

UF: Bores  
 Bores in estuaries  
 Eagre  
 Mascaret  
 BT: Shallow water waves  
 RT: Hydraulic jump

Tidal channels

USE: **Tidal inlets**

**Tidal charts**

UF: Corange charts  
 BT: Hydrographic charts  
 NT: Cotidal charts  
 RT: Current charts  
 Tidal prediction  
 Tide tables

Tidal components

USE: **Tidal constituents**

**Tidal constants**

UF: Harmonic tidal constants

Tidal harmonic constants  
 RT: Harmonic functions  
 Tidal analysis  
 Tidal constituents

**Tidal constituents**

SN: Before 1983 search also  
 TIDAL COMPONENTS  
 UF: Harmonic tidal constituents  
 Partial tides  
 Tidal components  
 RT: Harmonic functions  
 Lunar tides  
 Pole tides  
 Radiational tides  
 Solar tides  
 Tidal analysis  
 Tidal constants

Tidal current charts  
 USE: **Current charts**

Tidal current tables  
 USE: **Tide tables**

**Tidal currents**

UF: Tidal flow  
 Tidal stream  
 BT: Water currents  
 NT: Ebb currents  
 Flood currents  
 Rotary currents  
 RT: Estuarine dynamics  
 Longshore currents  
 Oscillatory flow  
 Telluric currents  
 Tidal inlets  
 Tidal mixing  
 Tidal waves  
 Tide tables  
 Tides

**Tidal curves**

UF: Marigram  
 BT: Analog records  
 RT: Tidal records

**Tidal cycles**

BT: Cycles  
 RT: Eastern boundary currents  
 Ebb currents  
 Flood currents  
 Tidal models  
 Tidal range  
 Tides

**Tidal datum**

BT: Datum levels  
 RT: Mean sea level  
 Tide gauges

**Tidal deposits**

RT: Estuarine sedimentation  
 Intertidal sedimentation  
 Sediments  
 Shelf sedimentation  
 Trace fossils

**Tidal dissipation**

UF: Tidal energy dissipation  
 BT: Wave dissipation  
 RT: Tidal energy  
 Tidal friction  
 Tidal power

**Tidal dynamics**

BT: Wave dynamics  
 RT: Tidal motion  
 Tidal propagation  
 Tidal waves  
 Tides

**Tidal effects**

BT: Environmental effects  
 RT: Beach erosion  
 Tides

Tidal elevation

USE: **Tidal range**

**Tidal energy**

SN: Used for the natural energy  
 bound up in tidal motion of  
 water bodies. For exploitation of  
 that energy, e.g. for generating  
 electricity, use TIDAL POWER  
 BT: Wave energy  
 RT: Green energy  
 Tidal dissipation  
 Tidal friction  
 Tidal power

Tidal energy dissipation

USE: **Tidal dissipation**

Tidal environment

USE: **Intertidal environment**

**Tidal equations**

BT: Equations  
 RT: Laplace equation  
 Numerical analysis

**Tidal flats**

UF: Intertidal flats  
 BT: Coastal landforms  
 RT: Coastal zone  
 Estuarine sedimentation  
 Intertidal environment  
 Intertidal sedimentation  
 Mud  
 Mud banks  
 Salt marshes  
 Tidal marshes  
 Tides

Tidal flow

USE: **Tidal currents**

**Tidal friction**

BT: Friction  
 RT: Bottom friction  
 Earth rotation  
 Tidal dissipation

Tidal energy

**Tidal fronts**

SN: Formed in shallow seas where  
 well-stratified offshore waters  
 meet with coastal waters which  
 are well-mixed. Before 2016  
 search also for SHELF FRONTS  
 UF: Shallow-sea fronts  
 Shelf fronts  
 BT: Coastal fronts  
 RT: Benthic fronts  
 Coastal zone  
 Convergence  
 Density fronts  
 Downwelling  
 Estuarine fronts  
 Seasonal thermocline  
 Thermal fronts  
 Tides  
 Turbulence

Tidal harmonic constants

USE: **Tidal constants**

**Tidal inlets**

UF: Tidal channels  
 BT: Coastal inlets  
 RT: Barrier islands  
 Channels  
 Estuaries  
 Flushing  
 Tidal currents

Tidal loading

USE: **Ocean loading**

**Tidal marshes**

SN: Tidal marshes can be found  
 along protected coastlines in  
 middle and high latitudes  
 worldwide. Some are freshwater  
 marshes, others are brackish and  
 still others are saline, but they  
 are all influenced by the motion  
 of ocean tides. Tidal marshes are  
 normally categorized into two  
 distinct zones, the lower or  
 intertidal marsh and the upper or  
 high marsh  
 BT: Marshes  
 RT: Coastal marshes  
 Salt marshes  
 Tidal flats

**Tidal mixing**

UF: Tidal stirring  
 BT: Water mixing  
 RT: Shelf dynamics  
 Tidal currents

**Tidal models**

BT: Mathematical models  
 RT: Tidal cycles

**Tidal motion**

SN: Only to be used for general treatment of tidal motion in hydrosphere, atmosphere and solid earth

BT: Motion

NT: Atmospheric tides  
Earth tides  
Tides

RT: Fluid motion  
Tidal analysis  
Tidal dynamics

**Tidal oscillations**

BT: Oscillations

RT: Tidal resonance

**Tidal perturbation**

BT: Perturbations

RT: Nodal tides  
Tidal analysis

**Tidal pools**

UF: Rock pools

Tide pools

RT: Intertidal environment

**Tidal power**

BT: Power from the sea

RT: Hydroelectric power

Tidal amplitude

Tidal barrages

Tidal dissipation

Tidal energy

Tidal power plants

Tidal range

Tides

Wave power

**Tidal power plants**

BT: Hydroelectric power plants

RT: Tidal barrages

Tidal power

**Tidal prediction**

UF: Tide predicting machines

Tide prediction

BT: Prediction

RT: Tidal analysis

Tidal charts

Tide tables

Tides

**Tidal propagation**

BT: Wave propagation

RT: Cotidal charts

Tidal dynamics

Tidal waves

**Tidal range**

UF: Tidal elevation

RT: Cotidal lines

Tidal amplitude

Tidal cycles

Tidal power

**Tidal records**

BT: Analog records

RT: Tidal curves

Tide gauges

**Tidal resonance**

BT: Resonance

RT: Tidal oscillations

**Tidal scour**

USE: **Current scouring**

**Tidal stirring**

USE: **Tidal mixing**

**Tidal stream**

USE: **Tidal currents**

**Tidal waves**

SN: Not to be used for  
TSUNAMIS

UF: Poincare waves

BT: Surface water waves

RT: Intertidal environment

Shallow water waves

Tidal amplitude

Tidal currents

Tidal dynamics

Tidal propagation

Tides

Tsunamis

**Tide-surge interaction**

UF: Surge-tide interaction

BT: Interactions

Wave-wave interaction

RT: Shallow water tides

Storm surge barriers

Storm surges

**Tide gauges**

UF: Tide measuring equipment

Tide pole

Tide staff

BT: Gauges

NT: Deep-sea tide gauges

RT: Pressure sensors

Tidal datum

Tidal records

**Tide generating forces**

USE: **Tide generating potential**

**Tide generating potential**

UF: Tide generating forces

Tide potential

RT: Tidal analysis

**Tide measuring equipment**

USE: **Tide gauges**

**Tide pole**

USE: **Tide gauges**

**Tide pools**

USE: **Tidal pools**

**Tide potential**

USE: **Tide generating potential**

**Tide predicting machines**

USE: **Tidal prediction**

**Tide prediction**

USE: **Tidal prediction**

**Tide staff**

USE: **Tide gauges**

**Tide tables**

UF: Tables (tides)

Tidal current tables

BT: Tables

RT: Current charts

Current velocity

Oceanographic tables

Tidal charts

Tidal currents

Tidal prediction

**Tides**

SN: Use for general papers on tidal motion in oceans, seas, lakes etc.

UF: Tides (hydrosphere)

BT: Tidal motion

NT: Astronomical tides

Barotropic tides

Diurnal tides

Estuarine tides

High tide

Long-period tides

Low tide

Lunar tides

Meteorological tides

Neap tides

Nodal tides

Ocean tides

Pole tides

Radiational tides

Semidiurnal tides

Shallow water tides

Solar tides

Spring tides

RT: Atmospheric tides

Dynamical oceanography

Earth tides

Ecological zonation

Moon phases

Ocean loading

Sea level

Surges

Tidal analysis

Tidal currents

Tidal cycles

Tidal dynamics

Tidal effects

Tidal flats

Tidal fronts

Tidal power

Tidal prediction

Tidal waves

**Tides (atmospheric)**

USE: **Atmospheric tides**



- Tides (earth)  
USE: **Earth tides**
- Tides (hydrosphere)  
USE: **Tides**
- Tie-in  
USE: **Connecting**
- Tilapia culture**  
SN: Before 2016 search FISH  
CULTURE + species name  
BT: Fish culture
- Tilapia diseases  
USE: **Fish diseases**
- Tilapia industry  
USE: **Fishery industry**
- Tilapia nutrition  
USE: **Animal nutrition**
- Till  
USE: **Boulder clay**
- Tiltmeters**  
BT: Slope indicators  
RT: Earth tides  
Geophysical equipment  
Seismology  
Strain gauges
- Time measuring equipment  
USE: **Chronometers**
- Time series**  
RT: Fixed stations  
Oceanographic data  
Probability theory  
Standard ocean sections  
Temporal variations  
Time series analysis
- Time series analysis**  
BT: Statistical analysis  
RT: Correlation analysis  
Fourier analysis  
Harmonic analysis  
Spectral analysis  
Stochastic processes  
Temporal variations  
Tidal analysis  
Time series
- Timing devices  
USE: **Chronometers**
- Tin**  
BT: Heavy metals  
RT: Cassiterite  
Tin compounds  
Tributyltin
- Tin compounds**  
BT: Chemical compounds
- RT: Tin  
Tributyltin
- Tissue banks  
USE: **Gene banks**
- Tissue culture**  
BT: Laboratory culture  
RT: Cell culture  
Culture media  
Tissues
- Tissue morphology  
USE: **Histology**
- Tissue transplants  
USE: **Transplants**
- Tissues**  
SN: Aggregation of similar cells  
having the same functions  
UF: Biological tissues  
NT: Adipose tissue  
Connective tissues  
Epithelia  
Nervous tissues  
RT: Anatomical structures  
Animal organs  
Calcification  
Cells  
Grafting  
Histochemistry  
Histology  
Histopathology  
Muscles  
Plant organs  
Tissue culture  
Transplants  
Ultrastructure
- Titanite**  
UF: Sphene  
BT: Silicate minerals
- Titanium**  
BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Ilmenite  
Rutile  
Titanium compounds
- Titanium compounds**  
BT: Chemical compounds  
RT: Titanium
- Titration**  
UF: Amperometric titration  
Chelatometric titration  
Potentiometric titration  
Titration techniques  
BT: Analytical techniques  
RT: Chemical reactions  
Salinity measurement  
Volumetric analysis
- Titration techniques  
USE: **Titration**
- TOC  
USE: **Total organic carbon**
- Tocopherol  
USE: **Vitamin E**
- Todorokite**  
BT: Oxide minerals
- Tolerance**  
BT: Biological properties  
NT: Exposure tolerance  
Pollution tolerance  
Salinity tolerance  
Temperature tolerance  
Toxicity tolerance  
RT: Adaptations  
Biological resistance  
Biological traits  
Ecophysiology  
Environmental effects  
Lethal limits  
Limiting factors  
Survival
- Tolerances (dimensional)**  
RT: Design  
Structural analysis
- Tomboles**  
BT: Beach features
- Tomography**  
SN: A radiological technique that  
shows a single plane (slice) of  
the object under examination,  
typically a part of an organism.  
Also used in non-destructive  
materials testing.  
UF: CAT scan  
Computed tomography  
Computerized axial tomography  
CT scan  
BT: Radiography  
RT: Acoustic tomography  
Anatomy  
Imaging techniques  
Materials testing  
Nondestructive testing  
Organism morphology
- Tools (underwater)  
USE: **Diving tools**
- Topographic effects**  
SN: Influence of topography on  
fluid flow  
NT: Bottom topography effects  
RT: Contour currents  
Flow over surfaces  
Lee waves  
Wave trapping

**Topographic features**

UF: Physiographic features  
 Relief forms  
 NT: Banks (topography)  
 Beach features  
 Channels  
 Escarpments  
 Karst  
 Landforms  
 Submarine features  
 Terraces  
 RT: Basins  
 Bed forms  
 Erosion features  
 Geomorphology  
 Glacial features  
 Physiographic provinces  
 Slopes (topography)  
 Topographic maps  
 Topography

**Topographic maps**

BT: Maps  
 RT: Bathymetric charts  
 Geological maps  
 Topographic features  
 Topographic surveying

Topographic planetary waves

USE: **Planetary waves**

**Topographic surveying**

BT: Surveying  
 RT: Beach profiles  
 Topographic maps

**Topographic waves**

BT: Water waves

**Topography**

NT: Dynamic topography  
 Surface topography  
 Topography (geology)  
 RT: Contours  
 Mapping  
 Topographic features

**Topography (geology)**

BT: Topography  
 NT: Bottom topography  
 Subaerial topography

**Topshell culture**

BT: Gastropod culture

**Tornadoes**

RT: Atmospheric disturbances  
 Low pressure systems  
 Storms  
 Vortices  
 Waterspouts  
 Winds

**Torque**

BT: Stress (mechanics)  
 RT: Shear stress

**Total allowable catch**

UF: Allowable catch  
 RT: Catch statistics  
 Individual transferable quotas  
 Quota regulations

**Total mortality**

UF: Total mortality coefficient  
 BT: Mortality  
 RT: Fishing mortality  
 Natural mortality

Total mortality coefficient

USE: **Total mortality**

**Total organic carbon**

UF: TOC  
 BT: Organic carbon  
 RT: Dissolved organic carbon

Total oxygen demand

USE: **Oxygen demand**

Total scattering coefficient

USE: **Scattering coefficient**

**Toughness**

UF: Durability  
 BT: Mechanical properties  
 RT: Wear

**Tourism**

NT: Ecotourism  
 RT: Recreation

**Tourmaline**

BT: Silicate minerals

**Towed bodies**

RT: Towed body design  
 Towed sensors  
 Towing  
 Underwater vehicles

**Towed body design**

BT: Design  
 RT: Ship technology  
 Towed bodies  
 Towed sensors  
 Towed vehicles  
 Towing  
 Underwater vehicles

**Towed sensors**

UF: Fish (towed sensors)  
 BT: Sensors  
 RT: Cable depressors  
 Towed bodies  
 Towed body design  
 Towed vehicles  
 Towing lines  
 Underwater vehicles  
 Undulators

**Towed vehicles**

SN: Unmanned underwater vehicles lacking self-propulsion and free-swimming capability  
 UF: Deep tow  
 BT: Unmanned vehicles  
 RT: Tethered vehicles  
 Towed body design  
 Towed sensors  
 Towing  
 Towing lines

**Towers**

SN: Fixed structures used as instrument platforms  
 BT: Stabilized platforms

**Towing**

RT: Barges  
 Towed bodies  
 Towed body design  
 Towed vehicles  
 Towing lines  
 Tugs  
 Winches

**Towing lines**

BT: Cables  
 RT: Cable depressors  
 Mooring lines  
 Ropes  
 Towed sensors  
 Towed vehicles  
 Towing  
 Wire angle

**Towing tanks**

BT: Tanks  
 RT: Laboratory equipment  
 Test equipment  
 Wave tanks

Toxic organisms

USE: **Poisonous organisms**

**Toxicants**

SN: Artificial poisons and their effects  
 RT: Algicides  
 DDT  
 Detoxification  
 Hazardous materials  
 Heavy metals  
 Mortality causes  
 PCB  
 Pesticides  
 Phenols  
 Repellents  
 Rotenone  
 Toxicity  
 Toxicity tests  
 Toxicology

**Toxicity**

SN: Nature and virulence of toxic and poisonous substances  
 BT: Biological properties

NT: Cytotoxicity  
 RT: Allergic reactions  
 Antibodies  
 Biological poisons  
 Biotesting  
 Detoxification  
 Endoparasites  
 Food poisoning  
 Heavy metals  
 Immunology  
 Lethal effects  
 Lethal limits  
 Nanoparticles  
 Pathology  
 Pollution effects  
 Radioactive contamination  
 Red tides  
 Sublethal effects  
 Survival  
 Toxicants  
 Toxicity tests  
 Toxicology

Toxicity indices  
 USE: **Toxicity tests**

**Toxicity tests**  
 UF: Toxicity indices  
 BT: Tests  
 RT: Bioassays  
 Biotesting  
 Hazard assessment  
 Pollutant identification  
 Test organisms  
 Toxicants  
 Toxicity  
 Toxicity tolerance  
 Toxicology

**Toxicity tolerance**  
 UF: Poison tolerance  
 BT: Tolerance  
 RT: Bioaccumulation  
 Sublethal effects  
 Toxicity tests  
 Toxicology

**Toxicology**  
 UF: Drug toxicology  
 NT: Ecotoxicology  
 RT: Biological poisons  
 Detoxification  
 Pharmacology  
 Pollutants  
 Toxicants  
 Toxicity  
 Toxicity tests  
 Toxicity tolerance

Toxins  
 USE: **Biological poisons**

**Trace elements**  
 NT: Trace metals  
 RT: Chemical elements  
 Nutrients (mineral)  
 Tracers

**Trace fossils**  
 BT: Biogenic sedimentary structures  
 NT: Fossilized tracks  
 RT: Burrows  
 Fossils  
 Palaeontology  
 Tidal deposits

**Trace metals**  
 BT: Trace elements  
 RT: Metals

**Tracer techniques**  
 NT: Isotope dilution  
 RT: Tracers

**Tracers**  
 NT: Dyes  
 Radioactive tracers  
 RT: Isotopes  
 Sediment transport  
 Trace elements  
 Tracer techniques

**Trachea**  
 SN: Before 1982 search  
 RESPIRATORY ORGANS  
 UF: Tracheal system  
 BT: Respiratory organs

Tracheal system  
 USE: **Trachea**

**Track charts**  
 BT: Maps  
 RT: Cruise reports  
 Cruise stations  
 Cruises  
 Station lists

**Tracking**  
 UF: Acoustic tracking  
 Continuous tracking  
 Fish tracking  
 Radio tracking  
 Tracking systems  
 Ultrasonic tracking  
 NT: Hurricane tracking  
 RT: Biotelemetry  
 Detection  
 Echo surveys  
 Identification  
 Locating  
 RFID tags  
 Tagging

Tracking systems  
 USE: **Tracking**

**Traction**  
 RT: Bed load  
 Particle motion  
 Sediment transport

Traction load  
 USE: **Bed load**

**Trade**  
 UF: Exports  
 Foreign trade  
 Imports  
 International trade  
 RT: Commerce  
 Economics  
 Globalization  
 Marketing  
 Pricing  
 Product labelling  
 Smuggling  
 Trade organizations

Trade associations  
 USE: **Trade organizations**

**Trade organizations**  
 UF: Trade associations  
 BT: Organizations  
 RT: Trade

Trade shows  
 USE: **Exhibitions**

**Trade winds**  
 UF: Tropical easterlies  
 BT: Planetary winds  
 NT: Equatorial easterlies  
 RT: Coastal upwelling  
 Tropical meteorology

Traditional ecological knowledge  
 USE: **Indigenous knowledge**

Traditional fishing  
 USE: **Artisanal fishing**

Traditional knowledge  
 USE: **Indigenous knowledge**

**Traffic management**  
 RT: Collision avoidance  
 Navigation regulations  
 Shipping  
 Shipping lanes

**Training**  
 SN: Before 1982 search  
 EDUCATION  
 RT: Capacity building  
 Education  
 Extension activities  
 Observers  
 Online instruction  
 Training aids  
 Training centres

**Training aids**  
 UF: Teaching aids  
 RT: Audiovisual materials  
 Manuals  
 Online instruction  
 Simulators  
 Training

Training centers  
USE: **Training centres**

**Training centres**  
UF: Training centers  
RT: Education establishments  
Training

Training programmes  
USE: **Curricula**

Trammels  
USE: **Entangling nets**

**Trans-isopycnal mixing**  
BT: Water mixing  
RT: Double diffusive instability  
Internal wave breaking  
Kelvin-Helmholtz instability  
Mixing processes

Transboundary stocks  
USE: **Shared stocks**

**Transcription**  
RT: Documents

**Transducer arrays**  
BT: Acoustic arrays  
RT: Transducers

**Transducers**  
BT: Equipment  
NT: Acoustic transducers  
Piezoelectric transducers  
Ultrasonic transducers  
RT: Accelerometers  
Pressure sensors  
Strain gauges  
Transducer arrays

**Transduction**  
RT: Bacteriophages

Transfer chambers  
USE: **Decompression chambers**

Transfer of properties  
USE: **Energy transfer**

Transfer of technologies  
USE: **Technology transfer**

**Transferases**  
SN: Before 1982 search  
ENZYMES  
BT: Enzymes

**Transform faults**  
BT: Faults  
RT: Mid-ocean ridges  
Plate tectonics  
Transform plate boundaries

**Transform plate boundaries**  
BT: Plate boundaries

RT: Transform faults

Transgenic organisms  
USE: **Genetically modified organisms**

**Transgressions**  
UF: Marine transgressions  
RT: Coasts  
Deglaciation  
Eustatic changes  
Regressions  
Retrogradation  
Sea level changes  
Submerged shorelines  
Submergence

Transient polymorphism  
USE: **Biopolymorphism**

**Transition elements**  
BT: Metals  
NT: Chromium  
Cobalt  
Copper  
Gold  
Iron  
Manganese  
Molybdenum  
Nickel  
Platinum  
Scandium  
Silver  
Technetium  
Titanium  
Tungsten  
Vanadium  
Zirconium  
RT: Actinides  
Rare earths

**Transition temperatures**  
BT: Temperature  
NT: Boiling point  
Dew point  
Freezing point  
Melting point  
RT: Phase changes

**Translations**  
RT: Documents

**Transmission**  
NT: Light transmission  
Sound transmission  
RT: Absorption (physics)  
Attenuation  
Reflection  
Transmission loss  
Wave motion

Transmission (water waves)  
USE: **Wave propagation**

**Transmission loss**  
UF: Absorption loss  
Reflection loss

Refraction loss  
Scattering loss  
Sound transmission loss  
RT: Transmission

Transmission of diseases  
USE: **Disease transmission**

**Transmissometers**  
BT: Light measuring instruments  
RT: Light absorption

**Transmittance**  
BT: Optical properties  
NT: Beam transmittance  
RT: Attenuance  
Light attenuation  
Light penetration  
Optical water types  
Turbidity  
Water transparency

**Transparency**  
BT: Optical properties  
NT: Water transparency  
RT: Light absorption  
Light refraction  
Light transmission  
Turbidity

Transparency (water)  
USE: **Water transparency**

Transparency meters  
USE: **Beam transmittance meters**

**Transpiration**  
NT: Evapotranspiration  
RT: Carbon cycle  
Cuticles  
Dehydration  
Evaporation  
Photosynthesis  
Respiration  
Stomata  
Water balance  
Water content

**Transplantation**  
SN: Artificial introduction of organisms into habitats where they do not occur naturally. Before 1982 search STOCKING (ORGANISMS)  
UF: Transplantation techniques  
RT: Introduced species  
Seeding (aquaculture)  
Stocking (organisms)

Transplantation techniques  
USE: **Transplantation**

**Transplants**  
SN: Tissue or organ grafted or transplanted to another part of the same individual or to another individual

UF: Biological transplantation  
 Grafts  
 Organ transplants  
 Tissue transplants  
 RT: Body organs  
 Organ removal  
 Tissues

**Transponder arrays**

BT: Acoustic arrays  
 RT: Transponders

Transponder navigation  
 USE: **Acoustic navigation**

**Transponders**

NT: Acoustic transponders  
 RT: Electronic equipment  
 Transponder arrays

**Transport**

SN: Use of a more specific term is recommended. For carriage of goods and passengers, use TRANSPORTATION  
 NT: Ekman transport  
 Heat transport  
 Mass transport  
 Sediment transport  
 Sverdrup transport  
 Volume transport  
 RT: Transport processes

Transport (vehicular)  
 USE: **Transportation**

**Transport processes**

NT: Advection  
 Diffusion  
 RT: Salt fingers  
 Transport  
 Water motion

**Transportation**

SN: Carriage of goods and passengers  
 UF: Transport (vehicular)  
 NT: Air transportation  
 Marine transportation  
 RT: Cargoes  
 Post harvest losses  
 Vehicles

**Transuranic elements**

BT: Metals  
 NT: Americium  
 Californium  
 Curium  
 Neptunium  
 Plutonium

**Transverse bars**

UF: Finger bars  
 BT: Nearshore bars  
 RT: Transverse bed forms

**Transverse bed forms**

BT: Bed forms  
 RT: Antidunes  
 Gravel waves  
 Ripple marks  
 Sand patches  
 Sand ripples  
 Sand waves  
 Transverse bars  
 Unidirectional flow

**Transverse mixing**

BT: Water mixing

**Trap fishing**

UF: Trapping  
 BT: Catching methods  
 Fishing  
 RT: Artisanal fishing  
 Bait  
 Bait fishing  
 Crab fisheries  
 Gastropod fisheries  
 Lobster fisheries  
 Trap nets

**Trap nets**

UF: Fish traps  
 Fyke nets  
 Pound nets  
 Traps  
 BT: Fishing nets  
 RT: Pots  
 Trap fishing

**Trapped waves**

UF: Bottom trapped waves  
 Coastal trapped waves  
 BT: Water waves  
 NT: Edge waves  
 Kelvin waves  
 Shelf waves  
 Surf beats  
 RT: Nonlinear waves  
 Wave trapping

Trapping  
 USE: **Trap fishing**

Traps  
 USE: **Trap nets**

Trash  
 USE: **Litter**

**Trash fish**

SN: Fish and other aquatic organisms without commercial value for human food market  
 UF: Industrial fish  
 Rough fish  
 BT: Fish

Trawl fisheries  
 USE: **Trawling**

**Trawl nets**

UF: Trawls  
 BT: Fishing nets  
 NT: Bottom trawls  
 Midwater trawls  
 RT: Codends  
 Net sounders  
 Otter boards  
 Trawlers  
 Trawling

Trawl selectivity  
 USE: **Gear selectivity**

**Trawlers**

UF: Beam trawlers  
 Otter trawlers  
 Pair trawlers  
 BT: Fishing vessels  
 RT: Pelagic fisheries  
 Trawl nets  
 Trawling

**Trawling**

UF: Pair trawling  
 Trawl fisheries  
 BT: Net fishing  
 NT: Bottom trawling  
 RT: Codends  
 Flatfish fisheries  
 Gadoid fisheries  
 Net sounders  
 Otter boards  
 Swept area  
 Trawl nets  
 Trawlers  
 Wire angle

Trawls  
 USE: **Trawl nets**

**Tray culture**

BT: Aquaculture techniques  
 RT: Oyster culture

Treaties  
 USE: **International agreements**

Treatment for diseases  
 USE: **Therapy**

Treatment of animals  
 USE: **Animal welfare**

Trenches (oceanic)  
 USE: **Oceanic trenches**

**Trenches (pipelines)**

RT: Ocean floor  
 Pipelines  
 Trenching

**Trenching**

UF: Ditching  
 Ploughing trenches  
 RT: Burying  
 Dredging

## ASFA THESAURUS

- Pipeline construction  
Ploughs  
Soil mechanics  
Trenches (pipelines)
- Trepang fisheries  
USE: **Sea cucumber fisheries**
- Triassic**  
SN: Before 1982 search  
TRIASSIC PERIOD  
BT: Mesozoic
- Tributaries**  
SN: A river or stream flowing into a larger river or lake  
UF: Affluents  
BT: Rivers  
RT: Catchment area  
Distributaries  
Fluvial morphology  
Headwaters  
Water springs
- Tributyltin**  
RT: Tin  
Tin compounds
- Trichloroethylene**  
BT: Chlorinated hydrocarbons
- Triple junctions**  
RT: Plate boundaries  
Plates
- Tritium**  
BT: Hydrogen isotopes
- Troll lines  
USE: **Lines**
- Trollers  
USE: **Liners**
- Trolling**  
BT: Line fishing  
RT: Liners  
Lines
- Trophic levels**  
SN: The trophic level of an organism is the position it occupies in a food chain. A food chain represents a succession of organisms that eat another organism and are, in turn, eaten themselves. The number of steps an organism is from the start of the chain is a measure of its trophic level. Food chains start at trophic level 1 with primary producers such as plants, move to herbivores at level 2, predators at level 3 and typically finish with carnivores or apex predators at level 4 or 5. Ecological communities with higher biodiversity can form more complex trophic paths
- RT: Biological production  
Carnivores  
Ecosystems  
Energy flow  
Feeding behaviour  
Fishing down aquatic food webs  
Food chains  
Herbivores  
Omnivores  
Piscivores  
Stable isotopes  
Trophodynamic cycle
- Trophic relationships**  
RT: Food webs  
Interspecific relationships  
Intraspecific relationships  
Stable isotopes  
Trophic structure  
Trophodynamic cycle
- Trophic state**  
UF: Trophic state index  
RT: Eutrophic waters  
Eutrophication  
Hypereutrophic waters  
Hyperoligotrophic waters  
Hypertrophy  
Mesotrophic waters  
Oligotrophic waters
- Trophic state index  
USE: **Trophic state**
- Trophic status  
USE: **Trophic structure**
- Trophic structure**  
SN: Refers to the way in which organisms utilise food resources and hence where energy transfer occurs within an ecosystem  
UF: Trophic status  
Trophic zonality  
RT: Ecosystems  
Stable isotopes  
Trophic relationships
- Trophic zonality  
USE: **Trophic structure**
- Trophodynamic cycle**  
UF: Food cycle  
BT: Cycles  
RT: Biogenic material  
Biological production  
Energy flow  
Feeding behaviour  
Food webs  
Heterotrophic organisms  
Nutritional requirements  
Stable isotopes  
Trophic levels  
Trophic relationships
- Tropical aquaculture  
USE: **Warm-water aquaculture**
- Tropical climate  
USE: **Tropical environment**
- Tropical climatology  
USE: **Tropical meteorology**
- Tropical cyclones  
USE: **Hurricanes**
- Tropical depressions**  
SN: Before 1982 search also  
TROPICAL CYCLONES  
UF: Tropical storms  
BT: Atmospheric depressions  
NT: Hurricanes  
RT: Atmospheric disturbances  
Easterly waves  
Tropical meteorology  
Weather forecasting
- Tropical easterlies  
USE: **Trade winds**
- Tropical environment**  
SN: For global treatment of regional aspects of tropical waters use WORLD TROPICAL REGIONS in Geographic Authority List  
UF: Tropical climate  
BT: Environments  
RT: Dry season  
Monsoons  
Rainy season  
Tropical lakes  
Tropical meteorology  
Tropical oceanography
- Tropical fish**  
BT: Fish  
RT: Coral reefs  
Marine fish  
Ornamental fish
- Tropical lakes**  
BT: Lakes  
RT: Dry season  
Tropical environment
- Tropical meteorology**  
UF: Tropical climatology  
BT: Meteorology  
RT: Easterly waves  
Equatorial dynamics  
Equatorial trough  
Hurricanes  
Monsoons  
Trade winds  
Tropical depressions  
Tropical environment  
Tropical oceanography

**Tropical oceanography**

BT: Oceanography  
 RT: Equatorial circulation  
 Equatorial dynamics  
 Hurricane waves  
 Monsoon reversal  
 Monsoons  
 Tropical environment  
 Tropical meteorology

Tropical storms

USE: **Tropical depressions**

**Tropism**

NT: Chemotropism  
 Geotropism  
 Phototropism  
 Rheotropism  
 RT: Behaviour  
 Orientation behaviour  
 Stimuli

**Tropopause**

BT: Earth atmosphere  
 RT: Stratosphere  
 Troposphere

**Troposphere**

BT: Earth atmosphere  
 RT: Air temperature  
 Atmospheric boundary layer  
 Atmospheric fronts  
 Jet stream  
 Stratosphere  
 Tropopause  
 Weather

**Trout culture**

SN: Before 2016 search FISH  
 CULTURE + species name  
 BT: Fish culture

Trout fisheries

USE: **Salmon fisheries**

**Tsunami generation**

BT: Wave generation  
 RT: Earthquakes  
 Landslides  
 Tsunamis

**Tsunami prediction**

BT: Prediction  
 RT: Tsunamis  
 Warning services

**Tsunamis**

UF: Seismic sea waves  
 Tunamis  
 BT: Surface water waves  
 RT: Catastrophic waves  
 Damage assessment  
 Disasters  
 Earthquakes  
 Edge waves  
 Flooding  
 Floods

Shallow water waves  
 Surface gravity waves  
 Tidal waves  
 Tsunami generation  
 Tsunami prediction  
 Volcanic eruptions  
 Wave effects

**Tube dwellers**

SN: Organisms living in a  
 constructed tube  
 UF: Tube dwelling organisms  
 Tubiculous organisms  
 BT: Aquatic organisms  
 RT: Benthos

Tube dwelling organisms

USE: **Tube dwellers**

**Tuberculosis**

UF: Mycobacterial infections  
 BT: Bacterial diseases  
 RT: Fish diseases

Tubiculous organisms

USE: **Tube dwellers**

**Tubing**

SN: Use for tubular construction  
 and structural components  
 RT: Cylinders  
 Node construction  
 Pipes

**Tugs**

BT: Ships  
 RT: Support ships  
 Towing

Tumbling disease

USE: **Whirling disease**

Tumors

USE: **Tumours**

**Tumours**

UF: Carcinoma  
 Hepatoma  
 Neoplasms  
 Sarcoma  
 Tumors  
 BT: Diseases  
 RT: Antitumour agents  
 Cancer  
 Carcinogenesis  
 Proliferation

**Tuna fisheries**

UF: Albacore fisheries  
 Billfisheries  
 Bonito fisheries  
 King mackerel fisheries  
 Skipjack tuna fisheries  
 Swordfish fisheries  
 BT: Finfish fisheries  
 RT: Mackerel fisheries  
 Marine fisheries

Pelagic fisheries

Tunamis

USE: **Tsunamis**

**Tungsten**

BT: Heavy metals  
 Transition elements  
 RT: Tungsten compounds

**Tungsten compounds**

BT: Chemical compounds  
 RT: Tungsten

**Tunnels**

RT: Bridges  
 Straits

**Turbidimeters**

UF: Turbidity sensors  
 BT: Measuring devices  
 RT: Light measuring instruments  
 Turbidity

**Turbidites**

BT: Clastics  
 RT: Deep-sea fans  
 Terrigenous sediments  
 Turbidity currents

**Turbidity**

BT: Physical properties  
 RT: Absorption spectra  
 Aerosols  
 Colloids  
 Detritus  
 Haze  
 Land-based pollution  
 Light absorption  
 Light attenuation  
 Light scattering  
 Nepheloid layer  
 Particle concentration  
 Particle distribution  
 Particle size  
 River plumes  
 Suspended inorganic matter  
 Suspended organic matter  
 Suspended particulate matter  
 Transmittance  
 Transparency  
 Turbidimeters  
 Turbidity currents  
 Turbulence  
 Visibility underwater  
 Water colour  
 Water properties  
 Water transparency

**Turbidity current structures**

BT: Sedimentary structures  
 RT: Flow structures  
 Olistostromes  
 Turbidity currents

**Turbidity currents**

UF: Suspension currents  
 BT: Sediment gravity flows  
 RT: Bottom currents  
 Cohesionless sediments  
 Density flow  
 Nepheloid layer  
 Sediment transport  
 Turbidites  
 Turbidity  
 Turbidity current structures

Turbidity sensors

USE: **Turbidimeters**

**Turbines**

BT: Motors  
 RT: Power plants  
 Propulsion systems  
 Wind farms

**Turbulence**

UF: Isotropic turbulence  
 NT: Atmospheric turbulence  
 Oceanic turbulence  
 RT: Diffusion  
 Eddy conductivity  
 Eddy diffusivity  
 Eddy viscosity  
 Reynolds stresses  
 Tidal fronts  
 Turbidity  
 Turbulent boundary layer  
 Turbulent diffusion  
 Turbulent flow  
 Turbulent transfer  
 Vortices  
 Vorticity  
 Wakes  
 Water circulation  
 Wave interactions

**Turbulence measurement**

BT: Flow measurement  
 RT: Anemometers  
 Atmospheric turbulence  
 Wind measuring equipment

**Turbulent boundary layer**

BT: Boundary layers  
 RT: Laminar boundary layer  
 Reynolds stresses  
 Turbulence  
 Turbulent flow

**Turbulent diffusion**

UF: Eddy diffusion  
 BT: Diffusion  
 RT: Atmospheric diffusion  
 Dye dispersion  
 Eddy conduction  
 Eddy diffusivity  
 Eddy viscosity  
 Mixing processes  
 Turbulence

Turbulent energy

USE: **Eddy kinetic energy**

**Turbulent entrainment**

BT: Fluid motion  
 RT: Buoyant jets  
 Entrainment  
 Mixing processes  
 Plumes  
 Salt-wedge estuaries  
 Separation  
 Turbulent flow

Turbulent exchange

USE: **Eddy flux**

**Turbulent flow**

BT: Fluid flow  
 NT: Cavitation  
 Turbulent shear flow  
 RT: Channel flow  
 Eddy viscosity  
 Laminar flow  
 Multiphase flow  
 Reynolds number  
 Reynolds stresses  
 Turbulence  
 Turbulent boundary layer  
 Turbulent entrainment  
 White water river recreation

Turbulent heat transfer

USE: **Eddy conduction**

Turbulent jets

USE: **Jets**

**Turbulent shear flow**

BT: Shear flow  
 Turbulent flow

Turbulent shear stresses

USE: **Reynolds stresses**

**Turbulent transfer**

RT: Turbulence

**Turions**

BT: Plant reproductive structures

Turnover

USE: **Overturn**

**Turtle culture**

BT: Reptile culture  
 RT: Turtle fisheries

**Turtle entanglement**

BT: Entanglement

**Turtle excluder devices**

BT: By-catch excluder devices

**Turtle fisheries**

BT: Fisheries  
 RT: Turtle culture

Twine

USE: **Yarns**

Two phase flow

USE: **Multiphase flow**

**Type localities**

SN: Specific geographic area in which the type specimens were first collected  
 RT: Distribution records  
 Holotypes  
 New taxa

Type specimens

USE: **Holotypes**

Typhoons

USE: **Hurricanes**

**Typology**

SN: The study of types as of constitutional types  
 RT: Ecotypes  
 Genotypes  
 Holotypes  
 Lectotype  
 Phenotypes  
 Taxonomy

**Tyrosine**

BT: Amino acids

UDN

USE: **Ulcerative dermal necrosis**

Ulcer disease

USE: **Vibriosis**

**Ulcerative dermal necrosis**

UF: UDN  
 BT: Fish diseases  
 Necroses

**Ultramafic rocks**

BT: Igneous rocks  
 NT: Ophiolites  
 Peridotite

**Ultrasonic devices**

UF: Ultrasonic equipment  
 NT: Ultrasonic transducers  
 RT: Ultrasonics

Ultrasonic equipment

USE: **Ultrasonic devices**

Ultrasonic testing

USE: **Nondestructive testing**

Ultrasonic tracking

USE: **Tracking**

**Ultrasonic transducers**

BT: Transducers  
 Ultrasonic devices



**Ultrasonics**

BT: Acoustics  
RT: Ultrasonic devices

**Ultrastructure**

UF: Fine structure (biology)  
Finestructure (biology)  
RT: Biotechnology  
Cells  
Electron microscopy  
Tissues

**Ultraviolet radiation**

SN: Wavelength range between  
0.02-0.4 microns  
BT: Electromagnetic radiation  
RT: Light  
Ozone  
Solar radiation  
Sterilization  
Thermal radiation  
Ultraviolet sterilization

**Ultraviolet sterilization**

SN: The sterilization of water by  
passing it near sources of  
ultraviolet radiation  
BT: Sterilization  
RT: Ultraviolet radiation

**Umbilicals**

BT: Cables  
RT: Diving suits  
Electric cables  
Life support systems

UN Convention on Law of the Sea  
USE: **United Nations Convention  
on Law of the Sea**

UN Fish Stock Agreement  
USE: **United Nations Fish Stock  
Agreement**

**Uncertainty**

SN: Lack of perfect knowledge of  
many factors that effects stock  
assessments, estimation of  
biological reference points, and  
management Use as qualifier  
when searching  
RT: Climatic changes  
Management  
Probability theory  
Risks  
Scientific advice  
Weather forecasting

UNCLOS  
USE: **United Nations Convention  
on Law of the Sea**

Uncontrolled spawning  
USE: **Wild spawning**

**Unconventional resources**

UF: Nonconventional resources

BT: Natural resources  
RT: Food resources  
Living resources  
Potential resources  
Potential yield

Under-ice environment  
USE: **Epontic environment**

Under-ice organisms  
USE: **Epontic organisms**

Under keel clearance  
USE: **Keel clearance**

**Undercurrents**

BT: Water currents  
NT: Equatorial undercurrents  
Western boundary  
undercurrents  
RT: Coastal countercurrents  
Ocean currents

Underdeveloped countries  
USE: **Developing countries**

**Underfishing**

SN: Characteristic of a stock  
which may sustain catches  
higher than current ones  
BT: Commercial fishing

Underground water  
USE: **Ground water**

Underkeel clearance  
USE: **Keel clearance**

**Undersea warfare**

UF: Anti-submarine warfare  
RT: Military oceanography  
Military operations  
Seabed conventions  
Submarines  
Underwater explosions

**Undertow**

BT: Nearshore currents  
RT: Breakers  
Rip currents  
Surf zone  
Waves on beaches

**Underutilized species**

SN: Commercial species which  
are not fully utilized  
BT: Commercial species

Underwater acoustics  
USE: **Acoustics**

Underwater ambient noise  
USE: **Ambient noise**

Underwater biotelemetry  
USE: **Biotelemetry**

**Underwater cameras**

BT: Cameras  
Underwater equipment  
RT: Underwater photography  
Underwater television  
Visibility underwater

Underwater connectors  
USE: **Connectors**

Underwater engineering  
USE: **Offshore engineering**

**Underwater equipment**

BT: Equipment  
NT: Underwater cameras  
RT: Diving tools  
Sonar  
Underwater exploitation  
Underwater vehicles  
Working underwater

Underwater erosion  
USE: **Bottom erosion**

Underwater escarpments  
USE: **Submarine scarps**

Underwater excavation  
USE: **Excavation underwater**

**Underwater exploitation**

BT: Exploitation  
RT: Exclusive economic zone  
Mineral resources  
Offshore engineering  
Oil wells  
Underwater equipment

**Underwater exploration**

BT: Exploration  
RT: Bathyspheres  
Coring  
Deep-sea diving  
Diving  
Diving surveys  
Drilling  
Geographical exploration  
Mineral resources  
Offshore engineering  
Seafloor mapping  
Surveying underwater  
Underwater photography  
Underwater television  
Underwater vehicles

**Underwater explosions**

BT: Explosions  
RT: Nuclear explosions  
Undersea warfare

**Underwater habitats**

SN: Seabed chambers for human  
occupation. Before 1982 search  
ARTIFICIAL HABITATS  
UF: Artificial habitats  
Chambers (one-atmosphere)

Habitats (artificial)  
 Human underwater habitats  
 Seabed habitats  
 BT: Habitat  
 Underwater structures  
 RT: Accommodation  
 Caissons  
 Diving bells  
 Work platforms  
 Working underwater

Underwater ice profiles  
 USE: **Ice canopy**

**Underwater inspection**  
 BT: Inspection

Underwater light sources  
 USE: **Light sources**

**Underwater medicine**  
 UF: Diving medicine  
 BT: Medicine  
 RT: Bone necrosis  
 Decompression sickness  
 Diving  
 Diving physiology  
 Hypercapnia  
 Hyperthermia  
 Hypothermia  
 Hypoxia  
 Nitrogen narcosis

Underwater navigation  
 USE: **Navigation underwater**

**Underwater noise**  
 BT: Noise (sound)  
 NT: Reverberation  
 RT: Ambient noise

**Underwater object location**  
 BT: Locating  
 RT: Search and rescue  
 Wreck location

**Underwater photographs**  
 BT: Photographs  
 NT: Bottom photographs  
 RT: Underwater photography

**Underwater photography**  
 BT: Photography  
 RT: Surveying underwater  
 Underwater cameras  
 Underwater exploration  
 Underwater photographs  
 Underwater television  
 Visibility underwater  
 Working underwater

**Underwater propulsion**  
 UF: Underwater propulsion systems  
 RT: Nuclear propulsion  
 Propulsion systems  
 Underwater vehicles

Underwater propulsion systems  
 USE: **Underwater propulsion**

Underwater research vessels  
 USE: **Underwater vehicles**

Underwater shelters  
 USE: **Shelters**

Underwater sound transmission  
 USE: **Sound waves**

**Underwater structures**  
 SN: Work platforms and equipment located and fixed to seabed  
 BT: Offshore structures  
 NT: Pipelines  
 Underwater habitats  
 Wellheads  
 RT: Guide lines  
 Offshore engineering  
 Oil tanks  
 Work platforms  
 Working underwater

Underwater surveying  
 USE: **Surveying underwater**

**Underwater television**  
 BT: Television systems  
 RT: Underwater cameras  
 Underwater exploration  
 Underwater photography  
 Visibility underwater

Underwater tools  
 USE: **Diving tools**

Underwater topography  
 USE: **Bottom topography**

Underwater tracking systems  
 USE: **Acoustic tracking systems**

**Underwater vehicles**  
 SN: Before 1982 search UNDERWATER RESEARCH VESSELS  
 UF: Underwater research vessels  
 BT: Vehicles  
 NT: Free-swimming vehicles  
 Manned vehicles  
 Self-propelled vehicles  
 Tethered vehicles  
 Unmanned vehicles  
 RT: Ballast tanks  
 Defence craft  
 Manipulators  
 Mother ships  
 Ship technology  
 Towed bodies  
 Towed body design  
 Towed sensors  
 Underwater equipment  
 Underwater exploration

Underwater propulsion  
 Work platforms

Underwater viewing  
 USE: **Viewing underwater**

Underwater visibility  
 USE: **Visibility underwater**

Underwater wellheads  
 USE: **Wellheads**

Underwater work  
 USE: **Working underwater**

**Undulators**  
 UF: Batfish  
 RT: Oceanographic equipment  
 Towed sensors

**Unidirectional flow**  
 BT: Fluid motion  
 RT: Channel flow  
 Oscillatory flow  
 Residual flow  
 Stream flow  
 Transverse bed forms

**Unit stocks**  
 SN: Self-sustaining genetic entities  
 BT: Stocks  
 RT: Population genetics  
 Subpopulations

**United Nations Convention on Law of the Sea**  
 SN: Before 2016 search LAW OF THE SEA + INTERNATIONAL LAW  
 UF: UN Convention on Law of the Sea  
 UNCLOS  
 BT: International agreements  
 RT: Law of the sea  
 United Nations Fish Stock Agreement

**United Nations Fish Stock Agreement**  
 SN: Before 2016 search LAW OF THE SEA + STRADDLING STOCKS + MIGRATORY SPECIES  
 UF: UN Fish Stock Agreement  
 BT: International agreements  
 RT: Law of the sea  
 Migratory species  
 Shared stocks  
 Straddling stocks  
 United Nations Convention on Law of the Sea

Universities  
 USE: **Education establishments**







**Vertical shear**

BT: Shear  
RT: Ekman layers  
Relative vorticity  
Richardson number  
Velocity gradients  
Velocity profiles  
Wind shear

**Vertical stability**

UF: Static stability  
BT: Stability  
RT: Brunt-Vaisala frequency  
Potential density  
Potential temperature  
Static instability  
Temperature inversions

Vertical structure (water bodies)

USE: **Water column**

**Vertical tectonics**

BT: Tectonics  
RT: Epeirogeny  
Isostasy

Vertical transport

USE: **Vertical advection**

**Vertical water movement**

SN: Use of a more specific term is recommended  
BT: Water motion  
NT: Cabbeling  
Cascading  
Downwelling  
Overtum  
Upwelling  
RT: Meridional oceanic circulation  
Vertical advection  
Vertical mixing  
Vertical motion

Vessel seizure

USE: **Surveillance and enforcement**

**Vessel wastes**

SN: Waste materials generated onboard vessels (e.g. bilge water, waste water, solid wastes, hazardous materials, litter, oil/fuel/lubricants, fish wastes etc.) and which eventually need to be disposed of (onshore, at sea, incinerated etc.)  
UF: Boat wastes  
Ship wastes  
NT: Bilge water  
RT: Faeces  
Fish wastes  
Fuels  
Hazardous materials  
Sea-based pollution  
Waste water

Vessels

USE: **Surface craft**

**Veterinarians**

BT: Scientific personnel

**Veterinary drugs**

SN: Works regarding substance applied or administered to any animals whether used for therapeutic, prophylactic, or diagnostic purposes, or for modification of physiological functions or behaviour  
UF: Veterinary pharmaceuticals  
BT: Drugs  
RT: Pharmaceutical pollution

**Veterinary drugs residues**

SN: Works regarding any specified substances in food, agricultural commodities, or animal feed resulting from the use of veterinary drugs  
BT: Chemical pollutants  
RT: Food chains  
Pesticide residues  
Pollutants  
Residence time

Veterinary pharmaceuticals

USE: **Veterinary drugs**

**Vibrarory corers**

UF: Vibro-corers  
BT: Corers

**Vibration**

UF: Strumming  
RT: Damping  
Elastic waves  
Noise (sound)  
Oscillations  
Resonance  
Resonant frequency

Vibrio infections

USE: **Vibriosis**

**Vibriosis**

SN: A fish disease caused by *Vibrio anguillarum*  
UF: Red pest  
Spotted pest  
Ulcer disease  
Vibrio infections  
BT: Bacterial diseases  
Fish diseases

Vibro-corers

USE: **Vibrarory corers**

Video networks

USE: **Television systems**

**Videotape recordings**

UF: Videotapes  
BT: Audiovisual materials  
RT: Films  
Magnetic tape recordings  
Records

Videotapes

USE: **Videotape recordings**

**Viewing underwater**

UF: Underwater viewing  
RT: Visibility underwater

**Viral diseases**

BT: Infectious diseases  
RT: Antiviral agents  
Biological control  
Fish diseases  
Immunization  
Septicaemia  
Viral replication  
Virology  
Viruses

Viral haemorrhagic septicaemia

USE: **Septicaemia**

**Viral replication**

SN: Before 2016 search  
REPLICATION + Viruses as taxonomic descriptor  
UF: Virus replication  
BT: Replication  
RT: Infectious diseases  
Viral diseases  
Viruses

Viral vaccines

USE: **Vaccines**

**Virology**

BT: Microbiology  
RT: Viral diseases  
Viruses

Virtual classrooms

USE: **Online instruction**

**Virtual population analysis**

SN: Computation of historical fishing mortality rates and stock sizes by age, based on data on catches, natural mortality, and certain assumptions about mortality for the last year and last age group.  
UF: Cohort analysis  
VPA  
BT: Statistical analysis  
RT: Population dynamics  
Stock assessment

**Virulence**

RT: Diseases

Virus replication  
USE: **Viral replication**

**Viruses**

SN: Before 2016 search also as a taxonomic descriptor  
BT: Microorganisms  
RT: Antiviral agents  
Bacteriophages  
Microbiological strains  
Viral diseases  
Viral replication  
Virology

**Viscosity**

BT: Mechanical properties  
NT: Dynamic viscosity  
Eddy viscosity  
Molecular viscosity  
RT: Capillarity  
Rheology  
Stokes law  
Viscosity coefficients  
Water properties

**Viscosity coefficients**

BT: Exchange coefficients  
NT: Eddy viscosity coefficient  
RT: Viscosity

**Visibility**

NT: Visibility underwater  
RT: Atmospheric optical phenomena  
Fog  
Haze  
Optics  
Vision

**Visibility underwater**

UF: Underwater visibility  
BT: Visibility  
RT: Diving  
Turbidity  
Underwater cameras  
Underwater photography  
Underwater television  
Viewing underwater  
Working underwater

Visible and near-infrared imagery  
USE: **Satellite photography**

Visible radiation  
USE: **Light**

**Vision**

BT: Sense functions  
RT: Eyes  
Light stimuli  
Optics  
Photoreception  
Photoreceptors  
Visibility  
Visual pigments  
Visual stimuli

Visual aids  
USE: **Audiovisual materials**

**Visual impact**

SN: Effects on people of the changes in available views through intrusion or obstruction  
RT: Development projects  
Environment management  
Environmental assessment  
Renewable resources  
Resource management

**Visual inspection**

SN: Visual inspection for organoleptic quality of seafood  
BT: Inspection  
RT: Quality assurance

**Visual pigments**

UF: Light sensitive pigments  
Rhodopsin  
BT: Pigments  
RT: Retinas  
Vision  
Visual stimuli

**Visual stimuli**

BT: Stimuli  
RT: Eyes  
Vision  
Visual pigments

**Vitamin A**

SN: Before 1982 search  
VITAMINS  
UF: Carotenes  
BT: Vitamins

**Vitamin B**

SN: Before 1982 search  
VITAMINS  
UF: Biotin  
Riboflavin  
Thiamine  
Vitamin B complex  
BT: Vitamins  
RT: Ribose

Vitamin B complex  
USE: **Vitamin B**

**Vitamin C**

SN: Before 1982 search  
VITAMINS  
UF: Ascorbic acid  
BT: Vitamins

**Vitamin D**

SN: Before 1982 search  
VITAMINS  
UF: Calciferol  
Cholocalciferol  
BT: Vitamins  
RT: Calcification

**Vitamin deficiencies**

UF: Avitaminosis  
Vitamin deficiency  
BT: Dietary deficiencies  
RT: Nutrient deficiency  
Nutrition disorders  
Vitamins

Vitamin deficiency  
USE: **Vitamin deficiencies**

**Vitamin E**

SN: Before 1982 search  
VITAMINS  
UF: Fertility vitamin  
Tocopherol  
BT: Vitamins

**Vitamins**

NT: Vitamin A  
Vitamin B  
Vitamin C  
Vitamin D  
Vitamin E  
RT: Bioactive compounds  
Coenzymes  
Drugs  
Food additives  
Growth regulators  
Nutritive value  
Vitamin deficiencies

**Vitellogenesis**

UF: Yolk formation  
RT: Eggs  
Embryology  
Embryonic development  
Morphogenesis  
Oogenesis  
Organogenesis  
Yolk

**Viviparity**

SN: Giving birth to living young which have already reached an advanced stage of development  
UF: Viviparous  
RT: Oviparity  
Pregnancy  
Sexual reproduction

Viviparous  
USE: **Viviparity**

VMEs  
USE: **Vulnerable marine ecosystems**

Vocal behaviour  
USE: **Vocalization behaviour**

Vocal cords  
USE: **Vocal organs**

**Vocal organs**

UF: Vocal cords  
 Vocal sacs  
 BT: Animal organs  
 NT: Larynx  
 RT: Sound production  
 Vocalization behaviour

Vocal sacs

USE: **Vocal organs**

**Vocalization behaviour**

UF: Vocal behaviour  
 BT: Behaviour  
 RT: Animal communication  
 Auditory organs  
 Auditory stimuli  
 Bioacoustics  
 Cetology  
 Sound production  
 Vocal organs

Voers

USE: **Coastal inlets**

**Void ratio**

BT: Ratios  
 RT: Permeability  
 Porosity  
 Soil mechanics  
 Voids

**Voids**

RT: Percolation  
 Permeability  
 Porosity  
 Void ratio

**Volatile compounds**

BT: Chemical compounds  
 NT: Volatile hydrocarbons  
 RT: Ammonia  
 Sulphur compounds

**Volatile hydrocarbons**

BT: Petroleum hydrocarbons  
 Volatile compounds

**Volcanic ash**

UF: Dust (volcanic)  
 Volcanic dust  
 BT: Ashes  
 Volcanic rocks  
 RT: Bentonite  
 Dust clouds  
 Eolian deposits  
 Eolian dust  
 Eolian transport  
 Terrigenous sediments  
 Volcanic eruptions

**Volcanic belts**

RT: Volcanism  
 Volcanoes

**Volcanic breccia**

BT: Tephra

RT: Breccia

Volcanic dust

USE: **Volcanic ash**

**Volcanic eruptions**

BT: Geological hazards  
 RT: Disasters  
 Tephra  
 Tsunamis  
 Volcanic ash  
 Volcanic islands  
 Volcanoes

**Volcanic glass**

UF: Basaltic glass  
 BT: Volcanic rocks  
 RT: Glass  
 Obsidian  
 Volcanogenic deposits

**Volcanic islands**

BT: Oceanic islands  
 RT: Island arcs  
 Volcanic eruptions  
 Volcanism  
 Volcanoes

**Volcanic lapilli**

BT: Tephra

**Volcanic rocks**

UF: Pyroclastics  
 BT: Igneous rocks  
 NT: Andesite  
 Basalts  
 Lava  
 Palagonite  
 Pumice  
 Rhyolites  
 Tephra  
 Volcanic ash  
 Volcanic glass  
 RT: Allochthonous deposits  
 Volcanism  
 Volcanoes  
 Volcanogenic deposits

Volcanic sediments

USE: **Volcanogenic deposits**

Volcanicity

USE: **Volcanism**

**Volcanism**

SN: Before 1982 search  
 SUBMARINE VOLCANOES  
 UF: Volcanicity  
 Vulcanism  
 RT: Active margins  
 Hot spots  
 Island arcs  
 Magma  
 Plate boundaries  
 Volcanic belts  
 Volcanic islands  
 Volcanic rocks

Volcanoes

Volcanogenic deposits

**Volcanoes**

SN: Before 1982 search  
 SUBMARINE VOLCANOES  
 NT: Mud volcanoes  
 Submarine volcanoes  
 RT: Lava flows  
 Volcanic belts  
 Volcanic eruptions  
 Volcanic islands  
 Volcanic rocks  
 Volcanism  
 Volcanogenic deposits

**Volcanogenic deposits**

UF: Volcanic sediments  
 BT: Sediments  
 RT: Terrigenous sediments  
 Volcanic glass  
 Volcanic rocks  
 Volcanism  
 Volcanoes

**Voltammetry**

RT: Electroanalysis  
 Electrolysis  
 Polarography

**Volume**

UF: Capacity (volume)  
 BT: Dimensions  
 NT: Ice volume  
 RT: Capacity  
 Size  
 Specific volume

**Volume scattering function**

BT: Optical properties  
 RT: Irradiance  
 Light scattering  
 Scatterance meters

**Volume transport**

UF: Mass transport (water currents)  
 BT: Transport  
 RT: Current velocity

**Volumetric analysis**

BT: Analysis  
 RT: Titration

**Vortex shedding**

RT: Current forces  
 Velocity profiles

**Vortices**

RT: Cavitation  
 Current rings  
 Fluid motion  
 Langmuir circulation  
 Lee eddies  
 Mixing length  
 Rotating fluids  
 Tornadoes



- Turbulence  
Vorticity  
Waterspouts
- Vorticity**  
NT: Absolute vorticity  
Enstrophy  
Planetary vorticity  
Potential vorticity  
Relative vorticity  
RT: Atmospheric motion  
Beta-plane  
Coriolis force  
Curl (vectors)  
Hydrodynamics  
Potential flow  
Rotation  
Turbulence  
Vortices  
Water motion
- VPA  
USE: **Virtual population analysis**
- Vulcanism  
USE: **Volcanism**
- Vulnerability**  
BT: Biological properties  
RT: Catchability  
Fishing mortality
- Vulnerable marine ecosystems**  
SN: Assemblages of marine benthic organisms or habitats which are susceptible to anthropogenic disturbance, especially that arising from the impact of fishing gear used in bottom fishing  
UF: VMEs  
BT: Ecosystems  
RT: Benthic environment  
Benthos  
Biological properties  
Conservation  
Ecosystem disturbance  
Ecosystem management  
Fishing  
Man-induced effects  
Overfishing
- Vulnerable species**  
BT: Species  
RT: Aquatic animals  
Aquatic plants  
Nature conservation  
Rare species  
Species extinction  
Threatened species
- Wakes**  
RT: Hydrodynamics  
Ship motion  
Ship speed  
Turbulence
- Warm-blooded animals  
USE: **Homoiothermy**
- Warm-water aquaculture**  
SN: Culture of warm-water organisms  
UF: Tropical aquaculture  
BT: Aquaculture techniques  
RT: Thermal aquaculture
- Warm fronts  
USE: **Atmospheric fronts**
- Warning devices  
USE: **Alarm systems**
- Warning services**  
BT: Information centres  
NT: Storm tide warning services  
RT: Earthquake prediction  
Environmental monitoring  
Iceberg detection  
Tsunami prediction  
Warning systems
- Warning systems**  
UF: Alerting systems  
NT: Alarm systems  
RT: Safety devices  
Warning services
- Warships  
USE: **Defence craft**
- Waste disposal**  
UF: Chemical waste disposal  
Disposal (waste)  
NT: Ocean dumping  
Radioactive waste disposal  
Sewage disposal  
RT: Agricultural wastes  
Composting  
Gas flaring  
Incineration  
Sanitary engineering  
Sewage ponds  
Waste disposal sites  
Waste treatment  
Wastes
- Waste disposal sites**  
SN: Offshore sites selected for dumping of wastes  
UF: Dumping grounds  
RT: Spoil  
Waste disposal
- Waste heat**  
SN: Heated or thermal effluents produced by power plants  
BT: Heat  
Wastes  
RT: Power plants  
Thermal aquaculture
- Waste treatment**  
NT: Biological treatment
- Sewage treatment  
Sludge treatment  
Wastewater treatment  
RT: Anaerobic digestion  
Bioremediation  
Decantation  
Environment management  
Sanitary engineering  
Waste disposal  
Wastes  
Water pollution treatment
- Waste utilization**  
UF: Fish waste utilization  
BT: Utilization  
RT: Fish leather  
Fish skin  
Wastes  
Wastewater aquaculture
- Waste water**  
BT: Wastes  
Water  
RT: Biological treatment  
Drainage water  
Effluents  
Industrial wastes  
Runoff  
Sanitary engineering  
Sewage  
Urban watersheds  
Vessel wastes  
Wastewater aquaculture  
Wastewater treatment  
Water pollution  
Water reclamation
- Wastes**  
UF: Prawn wastes  
NT: Agricultural wastes  
Domestic wastes  
Dredge spoil  
Effluents  
Industrial wastes  
Litter  
Mine tailings  
Oil wastes  
Organic wastes  
Pulp wastes  
Radioactive wastes  
Sewage  
Sludge  
Waste heat  
Waste water  
RT: Bleaching wastes  
Byproducts  
Composting  
Manure  
Nonpoint pollution sources  
Point source pollution  
Pollutants  
Waste disposal  
Waste treatment  
Waste utilization

**Wastewater aquaculture**

SN: Use of sewage and residual water for aquaculture purposes  
 BT: Aquaculture techniques  
 RT: Fish culture  
 Waste utilization  
 Waste water  
 Wastewater treatment

Wastewater recycling

USE: **Wastewater treatment**

**Wastewater treatment**

SN: Including recycling of waste waters  
 UF: Wastewater recycling  
 BT: Waste treatment  
 Water treatment  
 RT: Biodegradation  
 Biological treatment  
 Effluents  
 Reverse osmosis  
 Sanitary engineering  
 Sewage treatment  
 Waste water  
 Wastewater aquaculture

**Water**

SN: Use of a more specific term is recommended; consult terms listed below  
 NT: Bottom water  
 Brackish water  
 Cooling water  
 Deep water  
 Discoloured water  
 Distilled water  
 Drainage water  
 Drinking water  
 Eutrophic waters  
 Fresh water  
 Ground water  
 Heavy water  
 Hypereutrophic waters  
 Hyperoligotrophic waters  
 Irrigation water  
 Melt water  
 Mesotrophic waters  
 Oligotrophic waters  
 Pore water  
 River water  
 Saline water  
 Sea water  
 Shallow water  
 Stagnant water  
 Surface water  
 Waste water  
 RT: Aquatic environment  
 Aquifers  
 Biological uptake  
 Dead water  
 Hydrogen compounds  
 Hydrography  
 Hydrologic cycle  
 Hydrology  
 Hydrometeors  
 Hydrosphere

Hydrostatic pressure  
 Ice  
 Oxygen compounds  
 Recreational waters  
 Water analysis  
 Water balance  
 Water circulation  
 Water colour  
 Water conservation  
 Water content  
 Water currents  
 Water density  
 Water depth  
 Water filters  
 Water filtration  
 Water hardness  
 Water levels  
 Water management  
 Water masses  
 Water mixing  
 Water motion  
 Water policy  
 Water pollution  
 Water properties  
 Water quality  
 Water resources  
 Water rights  
 Water ripples  
 Water sampling  
 Water springs  
 Water supply  
 Water table  
 Water temperature  
 Water transparency  
 Water treatment  
 Water types  
 Water use  
 Water vapour  
 Water waves

Water-air exchanges  
 USE: **Air-water exchanges**

Water-bearing formations  
 USE: **Aquifers**

Water-ice interface  
 USE: **Ice-water interface**

Water-oil interface  
 USE: **Oil-water interface**

**Water analysis**  
 SN: Before 1982 search also WATER ANALYSIS (BIOLOGICAL), WATER ANALYSIS (CHEMICAL) and WATER ANALYSIS (PHYSICAL)  
 UF: Water analysis (biological)  
 Water analysis (chemical)  
 Water analysis (physical)  
 BT: Analysis  
 NT: Shipboard analysis  
 RT: Chemical analysis  
 Chemical limnology  
 Chemical oceanography

Chemical oxygen demand  
 Dissolved gases  
 Hydrocarbon analysis  
 Physical limnology  
 Physical oceanography  
 Pollutant identification  
 Pollution detection  
 Salinity measurement  
 Water  
 Water hardness  
 Water pollution  
 Water quality  
 Water sampling  
 Water temperature  
 Water treatment

Water analysis (biological)  
 USE: **Water analysis**

Water analysis (chemical)  
 USE: **Water analysis**

Water analysis (physical)  
 USE: **Water analysis**

**Water authorities**  
 BT: Organizations  
 RT: Drinking water  
 Water conservation  
 Water management  
 Water resources

**Water balance**  
 RT: Evapotranspiration  
 Kidneys  
 Metabolism  
 Transpiration  
 Urine  
 Water

Water ballast  
 USE: **Ballast**

Water blooms  
 USE: **Algal blooms**

**Water bodies**  
 SN: Surface waters of the Earth.  
 Use of a narrower term is recommended  
 UF: Surface water bodies  
 NT: Bayous  
 Coastal waters  
 Inland waters  
 Lagoons  
 Oceans  
 Temporary water bodies  
 RT: Aquatic environment  
 Channels  
 Ephemeral water bodies  
 Hydrogeomorphology  
 Hydrosphere  
 Intermittent water bodies  
 Recreational waters  
 Water budget  
 Water column  
 Water resources

Water bottles  
USE: **Water samplers**

**Water budget**

RT: Eustatic changes  
Evaporation  
Heat budget  
Hydrologic cycle  
Hydrology  
Hydrosphere  
Ice volume  
Inflow  
Outflow  
River discharge  
Salt budget  
Water bodies  
Water exchange

Water channels  
USE: **Channels**

Water circulating systems  
USE: **Recirculating systems**

**Water circulation**

SN: Circulation in oceans and inland water bodies. Use of a more specific term is recommended  
BT: Circulation  
Water motion  
NT: Lake dynamics  
Ocean circulation  
Shelf dynamics  
Surface circulation  
Wind-driven circulation  
RT: Aeration  
Coriolis force  
Diffusion  
Fluid motion  
Gyres  
Hydrodynamics  
Hydrologic cycle  
Physical limnology  
Physical oceanography  
Recirculating systems  
Thermal stratification  
Turbulence  
Upwelling  
Water  
Water currents  
Water masses  
Water mixing

**Water colour**

BT: Colour  
Water properties  
NT: Ocean colour  
RT: Blackwater rivers  
Clearwater rivers  
Discoloured water  
Gelbstoff  
Light absorption  
Multispectral scanners  
Suspended inorganic matter  
Suspended organic matter

Suspended particulate matter  
Turbidity  
Water  
Water transparency  
Whitewater rivers

**Water column**

UF: Vertical structure (water bodies)  
BT: Layers  
NT: Deep layer  
Mixed layer  
Surface layers  
RT: Benthic boundary layer  
Epilimnion  
Heat budget  
Hydrosphere  
Hypolimnion  
Stratification  
Thermocline  
Vertical advection  
Vertical profiles  
Water bodies

**Water conservation**

SN: Concerning only the different types of water resources  
BT: Conservation  
RT: Evaporation reduction  
Water  
Water authorities  
Water management  
Water policy  
Water pollution  
Water quality  
Water resources  
Water use

**Water content**

UF: Moisture content  
RT: Biochemical composition  
Dehydration  
Dewatering  
Drying  
Evapotranspiration  
Humidity  
Hygrometry  
Pore pressure  
Pore water  
Porosity  
Sediment properties  
Transpiration  
Water  
Wet bulk density  
Wet weight

Water current data  
USE: **Current data**

Water current observations  
USE: **Current observations**

**Water currents**

UF: Currents (water)  
Flow (water)  
Water flow  
BT: Water motion

NT: Bottom currents  
Boundary currents  
Coastal currents  
Countercurrents  
Gradient currents  
Inertial currents  
Lake currents  
Nearshore currents  
Ocean currents  
Shelf currents  
Slope currents  
Stream flow  
Subsurface currents  
Surface currents  
Tidal currents  
Undercurrents  
Wind-driven currents  
RT: Bottom topography effects  
Channels  
Current charts  
Current data  
Current direction  
Current forces  
Current meandering  
Current measurement  
Current measuring equipment  
Current meters  
Current power  
Current prediction  
Current reversal  
Current roses  
Current scouring  
Current vectors  
Density flow  
Energy spectra  
Fluid flow  
Fluid motion  
Horizontal motion  
Physical limnology  
Physical oceanography  
Residual flow  
Rheotaxis  
Rheotropism  
Streamlines  
Water  
Water circulation  
White water river recreation

Water cycle  
USE: **Hydrologic cycle**

**Water density**

UF: Density (water)  
BT: Density  
Water properties  
NT: In situ density  
Potential density  
Relative density  
Sigma-T  
RT: Buoyancy  
Cabbeling  
Chlorinity  
Chlorosity  
Density charts  
Density field  
Density fronts  
Density gradients

Density interfaces  
 Density measurement  
 Density profiles  
 Density sections  
 Density stratification  
 Hydrostatic pressure  
 Isopycnic surfaces  
 Isopycnics  
 Monin-Obukhov length  
 Pycnocline  
 Salinity  
 Specific volume  
 Specific volume anomalies  
 Water

**Water depth**

UF: Nautical bottom  
 BT: Depth  
 RT: Bathymeters  
 Bathymetric charts  
 Bathymetric data  
 Bathymetric profiles  
 Bathymetric surveys  
 Bathymetry  
 Bathythermographic data  
 Bathythermographs  
 Deep currents  
 Deep water  
 Depth recorders  
 Hydrographic surveying  
 Hydrographic surveys  
 Isobaths  
 Saturation depth  
 Shallow water  
 Soundings  
 Water  
 Wave attenuation  
 Wave parameters  
 Wind wave parameters

Water depth measurement  
 USE: **Bathymetry**

Water desalting  
 USE: **Desalination**

**Water exchange**

SN: Net exchange of water  
 between adjacent water bodies  
 RT: Conservation of salt  
 Heat transport  
 Inflow  
 Outflow  
 Straits  
 Water budget

**Water filters**

BT: Filters  
 RT: Water  
 Water filtration

**Water filtration**

SN: Removal of ions and organic  
 matter from water  
 UF: Filtration (water)  
 BT: Filtration  
 RT: Aeration

Aquaria  
 Centrifugation  
 Recirculating systems  
 Sanitary engineering  
 Sewage treatment  
 Sludge treatment  
 Water  
 Water filters  
 Water purification  
 Water quality  
 Water treatment

Water flow  
 USE: **Water currents**

**Water hardness**

UF: Hardness (water)  
 BT: Physical properties  
 Water properties  
 RT: Alkalinity  
 Calcium  
 Calcium compounds  
 Carbonates  
 Soaps  
 Water  
 Water analysis  
 Water quality

**Water level measurement**

BT: Measurement  
 NT: Sea level measurement  
 RT: Water levels  
 Wave measurement

**Water levels**

SN: Before 1984 search also  
**WATER LEVELS (LAKES)**  
 UF: Stages (water)  
 Water levels (lakes)  
 BT: Levels  
 NT: Sea level  
 RT: Droughts  
 Flash floods  
 Floods  
 Lake dynamics  
 Water  
 Water level measurement  
 Wind setup

Water levels (lakes)

USE: **Water levels**

**Water management**

BT: Resource management  
 RT: Best practices  
 Flood control  
 River basin management  
 Water  
 Water authorities  
 Water conservation  
 Water policy  
 Water resources  
 Water supply

**Water mass intrusions**

NT: Boluses  
 RT: Saline intrusion  
 Water masses

**Water masses**

NT: Cold water masses  
 Deep-water masses  
 Intermediate water masses  
 Outflow waters  
 Slope water  
 Subsurface water  
 Surface water masses  
 Water types  
 RT: Cabbelling  
 Conservative properties  
 Convergence zones  
 Core layers (water)  
 Divergence zones  
 Frontogenesis  
 Hydrography  
 In situ density  
 Non-conservative properties  
 Oceanic convergences  
 Optical classification  
 Pycnocline  
 T-S diagrams  
 Thermocline  
 Thermostads  
 Water  
 Water circulation  
 Water mass intrusions  
 Water mixing  
 Water properties

**Water mixing**

UF: Mixing (water)  
 NT: Tidal mixing  
 Trans-isopycnal mixing  
 Transverse mixing  
 Vertical mixing  
 RT: Aeration  
 Buoyant jets  
 Cabbelling  
 Core layer method  
 Destratification  
 Diffusion  
 Dilution  
 Dispersion  
 Downwelling  
 Estuarine dynamics  
 Mixing processes  
 Overturn  
 River plumes  
 Thermal plumes  
 Upwelling  
 Water  
 Water circulation  
 Water masses  
 Water motion

**Water motion**

SN: Motion in oceans and inland  
 water bodies  
 UF: Water movements  
 BT: Motion  
 NT: Eddies  
 Lee eddies  
 Meandering  
 Vertical water movement  
 Water circulation

Water currents  
 RT: Fluid dynamics  
 Oceanic turbulence  
 Planetary waves  
 Transport processes  
 Vorticity  
 Water  
 Water mixing  
 Wave motion

Water movements  
 USE: **Water motion**

Water oil separation  
 USE: **Oil water separation**

**Water policy**  
 BT: Policies  
 RT: Irrigation water  
 Water  
 Water conservation  
 Water management  
 Water quality  
 Water resources  
 Water supply

**Water pollution**  
 UF: Aquatic pollution  
 BT: Pollution  
 NT: Brackishwater pollution  
 Freshwater pollution  
 Groundwater pollution  
 Marine pollution  
 RT: Acid mine drainage  
 Chemical pollution  
 Faecal pollution  
 Nonpoint pollution sources  
 Oil pollution  
 Outfalls  
 Pharmaceutical pollution  
 Point source pollution  
 Radioactive contamination  
 Thermal pollution  
 Waste water  
 Water  
 Water analysis  
 Water conservation  
 Water pollution treatment  
 Water resources  
 Water salinization  
 Water use  
 White water effluents

Water pollution control  
 USE: **Pollution control**

Water pollution effects  
 USE: **Pollution effects**

Water pollution sources  
 USE: **Pollution sources**

**Water pollution treatment**  
 BT: Water treatment  
 RT: Biodegradation  
 Biofloc technology  
 Biomanipulation

Bioreactors  
 Bioremediation  
 Chemical degradation  
 Decantation  
 Oil removal  
 Pollution control  
 Public health  
 Sanitary engineering  
 Waste treatment  
 Water pollution  
 Water purification  
 Water quality control

Water pressure  
 USE: **Hydrostatic pressure**

**Water properties**  
 SN: Use of a more specific term is recommended  
 BT: Properties  
 NT: Water colour  
 Water density  
 Water hardness  
 Water temperature  
 Water transparency  
 RT: Chemical properties  
 Dissolved oxygen  
 Dissolved salts  
 Environmental factors  
 Eutrophication  
 Evaporation  
 Organoleptic properties  
 pH  
 Physical limnology  
 Physical oceanography  
 Physical properties  
 Physicochemical properties  
 Relative density  
 Saline water  
 Surface properties  
 Thermal conductivity  
 Thermal diffusivity  
 Thermal expansion  
 Turbidity  
 Viscosity  
 Water  
 Water masses  
 Water quality  
 Water structure

**Water pumps**  
 UF: Pumps (water)  
 BT: Pumps  
 RT: Aquaculture equipment  
 Aquaria  
 Recirculating systems  
 Salvage equipment

**Water purification**  
 SN: Physical and chemical treatment for water purification  
 UF: Purification (water)  
 BT: Water treatment  
 RT: Centrifugation  
 Chlorination  
 Dechlorination  
 Desalination

Disinfection  
 Ecosystem services  
 Ion exchange  
 Public health  
 Sanitary engineering  
 Self purification  
 Separation  
 Water filtration  
 Water pollution treatment  
 Water quality

**Water quality**  
 UF: Water standards  
 NT: Biofloc technology  
 RT: Biochemical oxygen demand  
 Chemical oxygen demand  
 Coliforms  
 Consumer protection  
 Deoxygenation  
 Eutrophication  
 Water  
 Water analysis  
 Water conservation  
 Water filtration  
 Water hardness  
 Water policy  
 Water properties  
 Water purification  
 Water quality control  
 Water resources  
 Water salinization  
 Water sampling  
 Water supply  
 White water effluents

**Water quality control**  
 BT: Quality control  
 RT: Biofloc technology  
 Pollution control  
 Water pollution treatment  
 Water quality  
 Water sampling  
 Water treatment

**Water reclamation**  
 UF: Reclamation (water)  
 BT: Reclamation  
 RT: Waste water  
 Water resources

**Water reservoirs**  
 UF: Impounding lakes  
 Reservoirs (water)  
 BT: Inland waters  
 RT: Aquaculture facilities  
 Artificial lakes  
 Backwaters  
 Dams  
 Drinking water  
 Fishways  
 Flood control  
 Irrigation water  
 Lentic environment  
 Limnology  
 Ponds  
 Reservoir fisheries  
 Spillways

**Water resources**

SN: Mainly different types of water bodies or water sources of inland regions  
 BT: Natural resources  
 RT: Aquifers  
 Atmospheric precipitations  
 Coastal aquifers  
 Drinking water  
 Droughts  
 Glaciers  
 Ground water  
 Headwaters  
 Hydrologic cycle  
 Ponds  
 Renewable resources  
 Rivers  
 Spatial planning  
 Spring streams  
 Water  
 Water authorities  
 Water bodies  
 Water conservation  
 Water management  
 Water policy  
 Water pollution  
 Water quality  
 Water reclamation  
 Water use  
 White water effluents

**Water rights**

BT: Rights  
 RT: Exclusive rights  
 Irrigation  
 Irrigation water  
 Property rights  
 Ranching  
 Rental  
 Riparian rights  
 Water  
 Water supply  
 Water use  
 Water use regulations

**Water ripples**

UF: Ripples (water)  
 BT: Capillary waves  
 RT: Water

Water runup

USE: **Wave runup**

Water salinisation

USE: **Water salinization**

**Water salinization**

SN: Water salinization of inland waters and aquifers results from leaching of salts through irrigation, saltwater intrusion, impurities in wastewater discharges. Before 2016 search SALINIZATION  
 UF: Salinization (water)  
 Water salinisation

BT: Salinization  
 RT: Environmental impact  
 Saline intrusion  
 Salinity  
 Salinity effects  
 Salinity measurement  
 Water pollution  
 Water quality

**Water samplers**

UF: Nansen bottles  
 Niskin samplers  
 Water bottles  
 BT: Samplers  
 RT: Limnological equipment  
 Pore water samplers  
 Water samples  
 Water sampling

**Water samples**

BT: Samples  
 RT: Chemical analysis  
 Water samplers  
 Water sampling

**Water sampling**

BT: Sampling  
 RT: Water  
 Water analysis  
 Water quality  
 Water quality control  
 Water samplers  
 Water samples

Water seepages

USE: **Submarine springs**

**Water springs**

SN: Use of a more specific term is recommended  
 UF: Freshwater springs  
 Springs (water)  
 NT: Geothermal springs  
 Hot springs  
 Spring streams  
 Submarine springs  
 RT: Ephemeral springs  
 Headwaters  
 Intermittent springs  
 Lotic environment  
 Seepages  
 Tributaries  
 Water

Water standards

USE: **Water quality**

**Water structure**

RT: Water properties

**Water supply**

RT: Consumer protection  
 Desalination plants  
 Drinking water  
 Water  
 Water management  
 Water policy

Water quality  
 Water rights  
 Water treatment  
 Water use

Water surface salinity  
 USE: **Surface salinity**

Water surface slope  
 USE: **Surface slope**

Water surface temperature  
 USE: **Surface temperature**

Water surface topography  
 USE: **Surface topography**

**Water table**

UF: Soil water table  
 RT: Aquifers  
 Drainage water  
 Ground water  
 Water  
 Watersheds

Water tanks

USE: **Tanks**

**Water temperature**

BT: Temperature  
 Water properties  
 NT: Bottom temperature  
 In situ temperature  
 Palaeotemperature  
 Surface temperature  
 RT: Abiotic factors  
 Bathythermographs  
 Cabbelling  
 Cold season  
 Cold water masses  
 Evaporation  
 Geothermal springs  
 Heat content  
 Hydroclimate  
 Isotherms  
 Physical limnology  
 Physical oceanography  
 Potential temperature  
 Refractive index  
 Sediment temperature  
 T-S diagrams  
 Temperature charts  
 Temperature effects  
 Temperature gradients  
 Temperature profiles  
 Temperature sections  
 Thermal microstructure  
 Thermal pollution  
 Thermal stratification  
 Thermal structure  
 Thermocline  
 Thermostads  
 Water  
 Water analysis  
 Water temperature data  
 Water types

**Water temperature data**

BT: Hydrographic data  
 Temperature data  
 RT: Limnological data  
 Oceanographic data  
 Water temperature

**Water transparency**

UF: Transparency (water)  
 BT: Transparency  
 Water properties  
 RT: Extinction coefficient  
 Light absorption  
 Light attenuation  
 Light scattering  
 Nephelometers  
 Transmittance  
 Turbidity  
 Water  
 Water colour

**Water treatment**

NT: Desalination  
 Wastewater treatment  
 Water pollution treatment  
 Water purification  
 RT: Aeration  
 Biofilters  
 Biofloc technology  
 Bleaching wastes  
 Coagulation  
 Consumer protection  
 Decantation  
 Dechlorination  
 Drinking water  
 Ion exchange  
 Oil water separation  
 Oxygenation  
 Water  
 Water analysis  
 Water filtration  
 Water quality control  
 Water supply

**Water types**

BT: Water masses  
 NT: Optical water types  
 RT: Core layers (water)  
 Hydrography  
 Salinity  
 T-S diagrams  
 Water  
 Water temperature

**Water use**

UF: Use of water  
 Water utilization  
 BT: Utilization  
 RT: Water  
 Water conservation  
 Water pollution  
 Water resources  
 Water rights  
 Water supply  
 Water use regulations

**Water use regulations**

SN: Policy and ownership of land  
 and inland waters  
 BT: Legislation  
 RT: Recreational waters  
 Water rights  
 Water use

**Water utilization**

USE: **Water use**

**Water vapour**

RT: Condensation  
 Dew point  
 Greenhouse effect  
 Humidity  
 Hydrometeors  
 Hygrometers  
 Hygrometry  
 Mixing ratio  
 Moisture  
 Sublimation  
 Vapour pressure  
 Water

**Water vapour pressure**

USE: **Vapour pressure**

**Water vapour transfer**

USE: **Moisture transfer**

**Water wave forecasting**

USE: **Wave forecasting**

**Water wave motion**

USE: **Wave motion**

**Water wave propagation**

USE: **Wave propagation**

**Water wave statistics**

USE: **Wave statistics**

**Water waves**

UF: Waves (water)  
 NT: Catastrophic waves  
 Deep-water waves  
 Destructive waves  
 Equatorial waves  
 Freak waves  
 Giant waves  
 Gravity waves  
 Inertial waves  
 Internal waves  
 Irregular waves  
 Linear waves  
 Nonlinear waves  
 Oscillatory waves  
 Regular waves  
 Shallow water waves  
 Surface gravity waves  
 Surface water waves  
 Topographic waves  
 Trapped waves  
 RT: Energy spectra  
 Group velocity  
 Orbital velocity

Overtopping  
 Overwash  
 Phase velocity  
 Physical limnology  
 Physical oceanography  
 Planetary waves  
 Water  
 Wave-wave interaction  
 Wave attenuation  
 Wave diffraction  
 Wave dispersion  
 Wave dissipation  
 Wave drift velocity  
 Wave effects  
 Wave generation  
 Wave generators  
 Wave groups  
 Wave interactions  
 Wave parameters  
 Wave propagation  
 Wave properties  
 Wave recorders  
 Wave slope  
 Wave statistics  
 Wave trains  
 Wave trapping  
 Wave velocity

**Water waves action**

USE: **Wave effects**

**Water weed utilization**

USE: **Plant utilization**

**Watershed (divide)**

USE: **Watersheds**

**Watersheds**

UF: Watershed (divide)  
 NT: Urban watersheds  
 RT: Catchment area  
 Drainage water  
 Flood control  
 Ground water  
 Lake basins  
 Land management  
 River basins  
 Runoff  
 Stream flow  
 Valleys  
 Water table

**Waterspouts**

RT: Atmospheric motion  
 Hurricanes  
 Tornadoes  
 Vortices

**Wave-air interactions**

USE: **Wave interactions**

**Wave-current interaction**

BT: Wave interactions  
 RT: Giant waves  
 Longshore currents  
 Momentum transfer  
 Rip currents

**Wave-cut platforms**

UF: Beach platforms  
Erosion platforms  
Strandflats  
BT: Beach features  
RT: Cliffs  
Erosion surfaces  
Strandlines  
Terraces  
Wave scouring

Wave-ice interaction  
USE: **Wave interactions**

**Wave-induced loading**

BT: Loads (forces)  
RT: Cyclic loading  
Pore pressure  
Wave-seabed interaction

**Wave-seabed interaction**

BT: Wave interactions  
RT: Bed forms  
Benthic boundary layer  
Bottom pressure  
Cyclic loading  
Sediment-water interface  
Wave-induced loading

Wave-shore interaction  
USE: **Waves on beaches**

**Wave-wave interaction**

BT: Wave interactions  
NT: Short wave-long wave interactions  
Surface wave-internal wave interactions  
Tide-surge interaction  
RT: Resonant wave interaction  
Water waves

**Wave absorbers**

RT: Wave damping

**Wave action**

UF: Density (wave action)  
Wave action density  
BT: Wave effects  
RT: Ship motion

Wave action density  
USE: **Wave action**

Wave age  
USE: **Age**

**Wave amplitude**

BT: Amplitude  
NT: Tidal amplitude  
RT: Wave attenuation  
Wave damping  
Wave height  
Wave properties

**Wave analysis**

BT: Analysis  
NT: Tidal analysis  
Waveform analysis  
RT: Surface water waves

**Wave attenuation**

SN: Use for natural decrease of amplitude of water waves  
UF: Attenuation (water waves)  
BT: Attenuation  
Wave dissipation  
RT: Sound attenuation  
Water depth  
Water waves  
Wave amplitude  
Wave damping  
Wave dispersion  
Wave propagation  
Wave scattering

**Wave breaking**

BT: Wave dissipation  
NT: Internal wave breaking  
Whitecapping  
RT: Breaking waves  
Wave crests  
Wave dynamics  
Wave processes on beaches  
Waves on beaches

**Wave buoys**

BT: Data buoys  
RT: Wave direction sensors  
Wave measuring equipment  
Wave power devices

Wave celerity  
USE: **Wave velocity**

**Wave climate**

RT: Climate  
Climatological charts  
Design wave  
Environmental conditions  
Sea state  
Wave forces  
Wind waves

Wave control (water waves)  
USE: **Wave damping**

**Wave crests**

RT: Breaking waves  
Long-crested waves  
Short-crested waves  
Wave breaking  
Wave geometry  
Wave slope

**Wave damping**

SN: Induced reduction in water wave amplitude  
UF: Damping (water waves)  
Wave control (water waves)  
BT: Damping  
RT: Breakwaters

Ship motion  
Surface films  
Surface water waves  
Wave absorbers  
Wave amplitude  
Wave attenuation  
Wave dissipation

**Wave data**

SN: Data on water waves  
UF: Wave records  
BT: Data  
RT: Oceanographic data  
Wave statistics

Wave decay  
USE: **Wave dissipation**

**Wave diffraction**

SN: Use only for water waves and specify type of wave  
BT: Diffraction  
RT: Water waves  
Wave interactions  
Wave propagation

**Wave direction**

BT: Direction  
RT: Directional spectra  
Long-crested waves  
Short-crested waves  
Wave direction sensors  
Wave properties

**Wave direction sensors**

BT: Sensors  
RT: Wave buoys  
Wave direction  
Wave measuring equipment

**Wave dispersion**

SN: Use only for water waves and specify type of wave  
UF: Dispersion (water waves)  
BT: Dispersion  
RT: Group velocity  
Phase velocity  
Water waves  
Wave attenuation  
Wave groups  
Wave motion  
Wave propagation  
Wave trains

**Wave dissipation**

SN: Use only for water waves and specify type of wave  
UF: Dissipation (water waves)  
Wave decay  
Wave energy dissipation (water waves)  
BT: Energy dissipation  
NT: Tidal dissipation  
Wave attenuation  
Wave breaking  
RT: Bottom friction  
Breaking waves



Oceanic turbulence  
 Surf zone  
 Water waves  
 Wave damping  
 Wave energy  
 Wave motion  
 Wave scattering  
 Whitecapping

**Wave drift velocity**  
 UF: Mass transport velocity  
 Stokes drift  
 BT: Velocity  
 RT: Mass transport  
 Orbital velocity  
 Particle motion  
 Water waves  
 Wave dynamics

**Wave dynamics**  
 NT: Tidal dynamics  
 RT: Bay dynamics  
 Wave breaking  
 Wave drift velocity  
 Wave motion

**Wave effects**  
 UF: Water waves action  
 NT: Wave action  
 RT: Backwash  
 Beach erosion  
 Beach profiles  
 Buoy motion  
 Capsizing  
 Flooding  
 Reflectance  
 Sediment transport  
 Ship motion  
 Tsunamis  
 Water waves  
 Wave energy  
 Wave forces  
 Waves on beaches

**Wave energy**  
 SN: Used for the natural energy bound up in the motion of water waves. For exploitation of that energy use WAVE POWER  
 BT: Energy  
 NT: Tidal energy  
 RT: Energy transfer  
 Green energy  
 Wave dissipation  
 Wave effects  
 Wave power  
 Wave power devices  
 Wave spectra

Wave energy dissipation (water waves)  
 USE: **Wave dissipation**

Wave energy spectra  
 USE: **Wave spectra**

Wave fetch  
 USE: **Fetch**

Wave followers  
 USE: **Instrument platforms**

**Wave forces**  
 UF: Impact (waves)  
 Slamming  
 Wave load  
 Wave pressure  
 BT: Loads (forces)  
 RT: Design wave  
 Flow around objects  
 Hydrodynamics  
 Morison's equation  
 Ship motion  
 Wave climate  
 Wave effects

**Wave forecasting**  
 UF: Water wave forecasting  
 Wave forecasts  
 BT: Wave predicting  
 RT: Design wave  
 Ship routeing  
 Significant wave height  
 Wave hindcasting

Wave forecasts  
 USE: **Wave forecasting**

Wave formation (water waves)  
 USE: **Wave generation**

**Wave frequency**  
 SN: Before 1982 search WAVE PERIOD  
 BT: Frequency  
 RT: Wave period  
 Wave properties  
 Wave spectra

Wave gauges  
 USE: **Wave measuring equipment**

**Wave generation**  
 SN: Use only for water waves and specify type of wave  
 UF: Generation (water waves)  
 Wave formation (water waves)  
 Wave growth (water waves)  
 NT: Internal wave generation  
 Storm surge generation  
 Tsunami generation  
 Wind wave generation  
 RT: Energy transfer  
 Water waves  
 Wave generators  
 Wave motion

**Wave generators**  
 SN: Mechanical devices used to generate water waves in wave tanks  
 RT: Water waves  
 Wave generation  
 Wave tanks

**Wave geometry**  
 SN: Search also SURFACE GEOMETRY before 1982  
 UF: Surface geometry (water waves)  
 Wave shape  
 Wave topography  
 RT: Surface properties  
 Surface water waves  
 Wave crests  
 Wave height  
 Wave slope  
 Wave statistics

**Wave groups**  
 RT: Group velocity  
 Water waves  
 Wave dispersion  
 Wave statistics  
 Wave trains

Wave growth (water waves)  
 USE: **Wave generation**

**Wave height**  
 SN: Use for surface water waves except tides  
 NT: Significant wave height  
 RT: Design wave  
 Extreme waves  
 Giant waves  
 Significant waves  
 Wave amplitude  
 Wave geometry  
 Wave properties  
 Wave statistics

**Wave hindcasting**  
 UF: Hindcasting (waves)  
 BT: Wave predicting  
 RT: Wave forecasting

**Wave interactions**  
 SN: Use only for water waves  
 UF: Wave-air interactions  
 Wave-ice interaction  
 BT: Interactions  
 NT: Nonlinear wave interactions  
 Resonant wave interaction  
 Wave-current interaction  
 Wave-seabed interaction  
 Wave-wave interaction  
 Wave trapping  
 Wind-wave interaction  
 RT: Atmospheric boundary layer  
 Energy transfer  
 Momentum transfer  
 Shear flow  
 Surface layers  
 Turbulence  
 Water waves  
 Wave diffract  
 Wave motion  
 Wave reflection  
 Wave refraction  
 Waves on beaches



BT: Refraction  
 RT: Bottom topography effects  
 Shallow water  
 Wave interactions  
 Wave propagation  
 Wave refraction diagrams  
 Waves on beaches

**Wave refraction diagrams**

BT: Graphs  
 RT: Caustics  
 Orthogonals  
 Wave refraction

**Wave runup**

SN: Before 1986 search also  
 SWASH  
 UF: Surges (beach)  
 Swash  
 Water runup  
 BT: Wave processes on beaches  
 RT: Backwash  
 Breakwaters  
 Sea walls

Wave sand ripples

USE: **Sand ripples**

**Wave scattering**

SN: Use only for water waves  
 UF: Scattering (water waves)  
 RT: Wave attenuation  
 Wave dissipation  
 Wave propagation

**Wave scouring**

SN: Before 1983 search  
 CURRENT SCOURING  
 BT: Scouring  
 RT: Bed forms  
 Bottom erosion  
 Current scouring  
 Shallow water waves  
 Surface water waves  
 Wave-cut platforms

Wave setdown  
 USE: **Wave processes on beaches**

Wave setup  
 USE: **Wave processes on beaches**

Wave shape  
 USE: **Wave geometry**

**Wave slope**

UF: Wave steepness  
 RT: Sand waves  
 Surface slope  
 Water waves  
 Wave crests  
 Wave geometry  
 Wave properties

Wave slope followers  
 USE: **Instrument platforms**

**Wave spectra**

UF: Wave energy spectra  
 Wave power spectra  
 BT: Spectra  
 RT: Wave energy  
 Wave frequency  
 Wave number  
 Wave properties  
 Wave statistics

Wave staff sensors

USE: **Wave measuring equipment**

Wave staffs

USE: **Wave measuring equipment**

**Wave statistics**

UF: Water wave statistics  
 BT: Statistics  
 RT: Design wave  
 Water waves  
 Wave data  
 Wave geometry  
 Wave groups  
 Wave height  
 Wave period  
 Wave properties  
 Wave spectra  
 Wave velocity

Wave steepness

USE: **Wave slope**

**Wave tanks**

BT: Tanks  
 RT: Flumes  
 Hydraulic models  
 Laboratory equipment  
 Test equipment  
 Towing tanks  
 Wave generators  
 Wave measuring equipment

Wave theory

USE: **Wave motion**

Wave topography

USE: **Wave geometry**

**Wave trains**

RT: Benjamin Feir instability  
 Water waves  
 Wave dispersion  
 Wave groups

Wave transmission

USE: **Wave propagation**

**Wave trapping**

BT: Wave interactions  
 RT: Topographic effects  
 Trapped waves  
 Water waves

**Wave velocity**

SN: Use only for water waves  
 UF: Wave celerity  
 Wave velocity (water waves)  
 BT: Velocity  
 RT: Group velocity  
 Orbital velocity  
 Phase velocity  
 Water waves  
 Wave properties  
 Wave statistics

Wave velocity (seismic)  
 USE: **Seismic velocities**

Wave velocity (sound)  
 USE: **Sound velocity**

Wave velocity (water waves)  
 USE: **Wave velocity**

**Waveform analysis**

BT: Wave analysis  
 RT: Fourier analysis  
 Harmonic analysis  
 Spectral analysis

**Wavelength**

RT: Wave number  
 Wave properties

Waves (acoustic)  
 USE: **Sound waves**

Waves (elastic)  
 USE: **Elastic waves**

Waves (electromagnetic)  
 USE: **Electromagnetic radiation**

Waves (planetary)  
 USE: **Planetary waves**

Waves (sand)  
 USE: **Sand waves**

Waves (seismic)  
 USE: **Seismic waves**

Waves (sound)  
 USE: **Sound waves**

Waves (water)  
 USE: **Water waves**

**Waves on beaches**

UF: Wave-shore interaction  
 RT: Backwash  
 Breaking waves  
 Edge waves  
 Nearshore dynamics  
 Shoaling  
 Shoaling waves  
 Surf  
 Surf zone  
 Undertow  
 Wave breaking

Wave effects  
Wave interactions  
Wave processes on beaches  
Wave refraction

Wax  
USE: **Waxes**

**Waxes**  
UF: Wax  
BT: Lipids  
RT: Animal products  
Petroleum

**Wear**  
SN: As applied to materials  
RT: Deterioration  
Friction  
Toughness  
Weathering

**Weather**  
SN: State of the atmosphere at a given time as defined by the meteorological elements. Before 1982 search WEATHER  
CONDITIONS  
UF: Atmospheric conditions  
Weather conditions  
BT: Climate  
RT: Air temperature  
Atmospheric depressions  
Atmospheric precipitations  
Atmospheric pressure  
Cloud cover  
Clouds  
Fog  
Humidity  
Ice conditions  
Lightning  
Meteorology  
Rainfall  
Sea level pressure  
Sea state  
Squalls  
Troposphere  
Weather forecasting  
Weather hazards  
Weather maps  
Wind speed

Weather conditions  
USE: **Weather**

Weather forecast map  
USE: **Weather maps**

**Weather forecasting**  
UF: Weather forecasts  
BT: Prediction  
RT: Atmospheric fronts  
Atmospheric pressure  
Climate prediction  
Meteorology  
Ship routeing  
Tropical depressions  
Uncertainty

Weather  
Weather hazards  
Weather maps  
Weather ships

Weather forecasts  
USE: **Weather forecasting**

**Weather hazards**  
BT: Hazards  
NT: Droughts  
Floods  
Icing  
Storms  
RT: Weather  
Weather forecasting

**Weather maps**  
UF: Weather forecast map  
BT: Meteorological charts  
RT: Meteorological observations  
Weather  
Weather forecasting  
Wind direction  
Wind speed

Weather routeing  
USE: **Ship routeing**

**Weather ships**  
UF: Ocean weather ships  
BT: Ships  
RT: Data buoys  
Ocean stations  
Research vessels  
Selected ships  
Weather forecasting

**Weathering**  
RT: Corrosion  
Degradation  
Environmental effects  
Erosion  
Fate  
Leaching  
Wear

Web-based instruction  
USE: **Online instruction**

Web-based training  
USE: **Online instruction**

Web based training  
USE: **Online instruction**

Weed cutting  
USE: **Plant control**

**Weeds**  
UF: Aquatic weeds  
BT: Flora  
NT: Freshwater weeds  
Seaweeds  
RT: Aquatic plants  
Herbicide resistance  
Plant control  
Pleuston

**Weekly**  
BT: Periodicity

Wegener hypothesis  
USE: **Continental drift**

**Weight**  
BT: Physical properties  
NT: Dry weight  
Molecular weight  
Wet weight  
RT: Displacement  
Gravity  
Loads (forces)  
Mass  
Pressure  
Specific gravity

Weight-length relationships  
USE: **Length-weight relationships**

**Weight grading**  
SN: Before 2016 search  
GRADING + WEIGHT  
BT: Biological grading

**Weirs**  
SN: Structures built across rivers or channels to divert water and raise the water level  
BT: Barrages  
RT: Dams

**Welding**  
UF: Explosive welding  
NT: Electric arc welding  
Welding underwater  
RT: Cutting  
Heat affected zones  
Pipeline construction

**Welding underwater**  
BT: Welding  
Working underwater  
RT: Cutting underwater

**Well completion**  
UF: Completion (well)  
Offshore completion  
RT: Oil wells

**Well logging**  
BT: Logging  
RT: Boreholes

**Well workover operations**  
UF: Workovers  
RT: Oil and gas production

**Wellheads**  
UF: Christmas trees  
Underwater wellheads  
BT: Underwater structures  
RT: Blowout preventers  
Flowlines

- Manifolds  
Subsea production systems  
Templates
- Wells (oil and gas)  
USE: **Oil wells**
- Westerlies**  
BT: Planetary winds  
NT: Equatorial westerlies
- Western boundary currents**  
BT: Boundary currents  
RT: Western boundary undercurrents  
Westward intensification
- Western boundary undercurrents**  
BT: Undercurrents  
RT: Contour currents  
Western boundary currents
- Westward intensification**  
SN: Westward intensification of velocity of wind driven currents  
RT: Current velocity  
Planetary vorticity  
Western boundary currents
- Wet bulk density**  
BT: Sediment density  
RT: Grain size  
Porosity  
Water content
- Wet meadows  
USE: **Marshes**
- Wet season  
USE: **Rainy season**
- Wet storage (live organisms)  
USE: **Live storage**
- Wet storage (museum specimens)  
USE: **Fixation**
- Wet submersibles**  
BT: Submersibles  
RT: Untethered vehicles
- Wet weight**  
BT: Weight  
RT: Density  
Water content
- Wetland restoration**  
BT: Environmental restoration
- Wetlands**  
BT: Inland waters  
NT: Marshes  
Mires  
Swamps  
RT: Bayous  
Cheniers  
Deltas
- Flooding  
Land reclamation  
Muskeg  
Stagnant water
- Whale stranding  
USE: **Stranding**
- Whalebones  
USE: **Baleens**
- Whaling**  
UF: Whaling techniques  
BT: Hunting  
NT: Artisanal whaling  
RT: Blue whale unit  
Whaling regulations  
Whaling stations  
Whaling statistics
- Whaling regulations**  
BT: Fishery regulations  
RT: Blue whale unit  
International agreements  
Whaling
- Whaling stations**  
RT: Whaling
- Whaling statistics**  
SN: Catch tabulation of whales and allied species including derived industrial products  
BT: Catch statistics  
RT: Blue whale unit  
Whaling  
Wounding
- Whaling techniques  
USE: **Whaling**
- Whelk fisheries  
USE: **Gastropod fisheries**
- Whirling disease**  
UF: Tumbling disease  
BT: Fish diseases  
RT: Parasitic diseases  
Swim bladder
- White muscles  
USE: **Muscles**
- White water (colour)  
USE: **Whitewater rivers**
- White water (effluent)  
USE: **White water effluents**
- White water effluents**  
SN: White water effluent from pulp and paper mills  
UF: White water (effluent)  
BT: Pulp wastes  
RT: Effluents  
Water pollution  
Water quality
- Water resources
- White water river recreation**  
SN: Rivers used in recreation for canoeing or rafting. White water rivers are graded according to the difficulty, danger or severity of the rapids  
UF: White water rivers (recreation)  
Whitewater rivers (recreation)  
RT: Gradients  
Recreation  
Rivers  
Turbulent flow  
Water currents  
Whitecaps
- White water rivers (colour)  
USE: **Whitewater rivers**
- White water rivers (recreation)  
USE: **White water river recreation**
- Whitcapping**  
BT: Wave breaking  
RT: Wave dissipation  
Whitecaps
- Whitecaps**  
BT: Breaking waves  
RT: Foams  
White water river recreation  
Whitcapping
- Whitewater rivers**  
SN: Tropical rainforest rivers carrying a heavy sediment load, despite their cafe-au-lait appearance, are generally known as 'whitewater' or brown-water rivers  
UF: Brown water rivers  
White water (colour)  
White water rivers (colour)  
BT: Rivers  
RT: Blackwater rivers  
Classification  
Clearwater rivers  
River water  
Sediment transport  
Water colour
- Whitewater rivers (recreation)  
USE: **White water river recreation**
- Whiting fisheries  
USE: **Gadoid fisheries**
- Width**  
UF: Breadth  
BT: Dimensions
- Wild fish  
USE: **Natural populations**

Wild fish stocks  
USE: **Stocks**

**Wild spawning**  
SN: Before 1982 search  
SPAWNING  
UF: Uncontrolled spawning  
BT: Spawning

Wildlife conservation  
USE: **Nature conservation**

Wildlife refuges  
USE: **Refuges**

**Winches**  
BT: Lifting tackle  
RT: Fishing gear  
Gear handling  
Towing

Wind  
USE: **Winds**

**Wind-driven circulation**  
BT: Water circulation  
RT: Ocean circulation  
Surface circulation  
Sverdrup transport  
Thermohaline circulation  
Wind-driven currents

**Wind-driven currents**  
SN: Search also DRIFT  
CURRENTS  
UF: Barometric currents  
Drift currents  
Wind drift (current)  
BT: Water currents  
RT: Biological drift  
Boundary currents  
Coastal currents  
Ekman spiral  
Longshore currents  
Nearshore currents  
Ocean currents  
Rip currents  
Surface currents  
Surface Ekman layer  
Sverdrup transport  
Upwelling  
Wind-driven circulation  
Wind waves  
Winds

Wind-generated noise  
USE: **Surface noise**

**Wind-wave interaction**  
BT: Wave interactions  
RT: Air flow over water  
Wind stress  
Wind wave generation  
Wind waves

**Wind abrasion**  
RT: Eolian transport  
Scouring  
Winds

**Wind constancy**  
RT: Variability  
Wind power  
Wind speed

**Wind data**  
BT: Meteorological data  
RT: Wind direction  
Wind fields  
Wind measurement  
Wind speed  
Wind stress  
Winds

**Wind direction**  
BT: Direction  
RT: Weather maps  
Wind data  
Wind measurement  
Wind roses  
Wind speed  
Wind vectors  
Windrows  
Winds

Wind drift (current)  
USE: **Wind-driven currents**

Wind energy  
USE: **Wind power**

**Wind erosion**  
BT: Erosion  
RT: Soil erosion  
Winds

**Wind farms**  
RT: Energy resources  
Green energy  
Offshore operations  
Offshore structures  
Power from the sea  
Renewable resources  
Turbines  
Wind power

**Wind fields**  
RT: Wind data  
Winds

Wind forces  
USE: **Wind pressure**

Wind generated waves  
USE: **Wind waves**

Wind loading  
USE: **Wind pressure**

**Wind measurement**  
BT: Flow measurement  
RT: Wind data

Wind direction  
Wind measuring equipment  
Wind power  
Wind speed  
Winds

**Wind measuring equipment**  
BT: Flow measuring equipment  
NT: Anemometers  
Balloons  
RT: Flowmeters  
Meteorological instruments  
Radiosondes  
Turbulence measurement  
Wind measurement  
Winds

**Wind power**  
UF: Wind energy  
BT: Energy resources  
RT: Green energy  
Power from the sea  
Renewable resources  
Wind constancy  
Wind farms  
Wind measurement  
Wind pressure  
Wind speed  
Winds

**Wind pressure**  
SN: The force exerted on a  
structure by wind. Before 1983  
search also WIND FORCES  
UF: Wind forces  
Wind loading  
BT: Loads (forces)  
RT: Wind power  
Winds

**Wind profiles**  
UF: Wind speed profiles  
BT: Velocity profiles  
RT: Atmospheric boundary layer  
Velocity gradients  
Wind shear  
Wind speed  
Winds

**Wind roses**  
BT: Map graphics  
RT: Climatological charts  
Current roses  
Wind direction  
Wind speed

**Wind setup**  
SN: Use for changes in still water  
level due to wind stress in  
enclosed bodies of water  
UF: Setup (wind)  
Wind time  
RT: Lake dynamics  
Storm surges  
Water levels  
Wind stress

**Wind shear**

BT: Shear  
 RT: Current shear  
 Vertical shear  
 Wind profiles  
 Wind speed  
 Wind vectors

**Wind speed**

UF: Wind strength  
 Wind velocity  
 BT: Velocity  
 RT: Gusts  
 Squalls  
 Wave parameters  
 Weather  
 Weather maps  
 Wind constancy  
 Wind data  
 Wind direction  
 Wind measurement  
 Wind power  
 Wind profiles  
 Wind roses  
 Wind shear  
 Wind vectors  
 Wind wave parameters  
 Winds

Wind speed profiles  
 USE: **Wind profiles**

Wind strength  
 USE: **Wind speed**

**Wind stress**

UF: Surface stress  
 BT: Stress (mechanics)  
 RT: Atmospheric boundary layer  
 Atmospheric forcing  
 Drag  
 Drag coefficient  
 Ice drift  
 Reynolds stresses  
 Shear stress  
 Sverdrup transport  
 Wave parameters  
 Wind-wave interaction  
 Wind data  
 Wind setup  
 Wind stress curl  
 Wind wave generation  
 Wind wave parameters  
 Winds

**Wind stress curl**

UF: Curl of wind stress  
 BT: Curl (vectors)  
 RT: Wind stress  
 Wind vectors

Wind systems  
 USE: **Winds**

Wind time  
 USE: **Wind setup**

**Wind tunnels**

RT: Test equipment

Wind vanes

USE: **Vanes**

**Wind vectors**

BT: Map graphics  
 Vectors  
 RT: Wind direction  
 Wind shear  
 Wind speed  
 Wind stress curl

Wind velocity

USE: **Wind speed**

**Wind wave generation**

BT: Wave generation  
 RT: Air flow over water  
 Drag  
 Drag coefficient  
 Duration  
 Fetch  
 Momentum transfer  
 Surface roughness  
 Wind-wave interaction  
 Wind stress  
 Wind waves

**Wind wave parameters**

BT: Parameters  
 RT: Duration  
 Fetch  
 Water depth  
 Wave properties  
 Wind speed  
 Wind stress  
 Wind waves

**Wind waves**

UF: Wind generated waves  
 BT: Surface water waves  
 RT: Surface gravity waves  
 Surges  
 Swell  
 Wave climate  
 Wave recorders  
 Wind-driven currents  
 Wind-wave interaction  
 Wind wave generation  
 Wind wave parameters

**Windrows**

BT: Slicks  
 RT: Cellular convection  
 Langmuir circulation  
 Surface films  
 Surface properties  
 Wind direction

**Winds**

UF: Wind  
 Wind systems  
 BT: Atmospheric motion  
 NT: Gale force winds  
 Geostrophic winds

Local winds  
 Planetary winds  
 RT: Anticyclones  
 Atmospheric circulation  
 Atmospheric pressure  
 Atmospheric turbulence  
 Climate  
 Climatology  
 Cyclones  
 Eolian processes  
 Eolian transport  
 Fetch  
 Fluid flow  
 Gusts  
 Langmuir circulation  
 Sea level pressure  
 Squalls  
 Storms  
 Tornadoes  
 Upwelling  
 Wind-driven currents  
 Wind abrasion  
 Wind data  
 Wind direction  
 Wind erosion  
 Wind fields  
 Wind measurement  
 Wind measuring equipment  
 Wind power  
 Wind pressure  
 Wind profiles  
 Wind speed  
 Wind stress

**Wings**

SN: Before 1982 search  
 LOCOMOTORY  
 APPENDAGES  
 BT: Locomotory appendages  
 RT: Aquatic birds  
 Aquatic insects

Winkle fisheries  
 USE: **Gastropod fisheries**

**Winkler method**

BT: Analytical techniques  
 RT: Dissolved oxygen

**Winnowing**

BT: Sediment sorting  
 RT: Particle settling

**Winter**

BT: Seasons  
 RT: Cold season  
 Overwintering  
 Overwintering techniques  
 Winterkill

Winter eggs  
 USE: **Resting eggs**

**Winterkill**

SN: The loss of animals in a lake, pond or other water body as a result of heavy ice cover or mid-winter anoxia affecting eutrophic lakes  
 BT: Fish kill  
 RT: Anoxic conditions  
 Ice cover  
 Overwintering techniques  
 Oxygen depletion  
 Temperature effects  
 Winter

**Wire angle**

RT: Cables  
 Mooring lines  
 Towing lines  
 Trawling  
 Wire rope

**Wire rope**

SN: Do not use for electric cables  
 UF: Steel wire  
 Wires  
 BT: Ropes  
 RT: Cable dynamics  
 Cables  
 Guide lines  
 Wire angle

**Wires**

USE: **Wire rope**

**Within-year variations**

USE: **Seasonal variations**

**Women**

BT: Females  
 Gender  
 RT: Men

**Wood**

BT: Materials

**Work boats**

USE: **Support ships**

**Work platforms**

UF: Platforms (work)  
 NT: Drilling platforms  
 Production platforms  
 RT: Barges  
 Cable ships  
 Dredgers  
 Drilling vessels  
 Factory ships  
 Fishing vessels  
 Fixed platforms  
 Offshore structures  
 Surface craft  
 Underwater habitats  
 Underwater structures  
 Underwater vehicles

**Workers**

USE: **Personnel**

**Working locations**

USE: **Locations (working)**

**Working underwater**

UF: Divers work  
 Underwater work  
 NT: Cutting underwater  
 Surveying underwater  
 Welding underwater  
 RT: Diving  
 Diving bells  
 Diving industry  
 Diving physiology  
 Diving tools  
 Locations (working)  
 Saturation diving  
 Underwater equipment  
 Underwater habitats  
 Underwater photography  
 Underwater structures  
 Visibility underwater

**Workovers**

USE: **Well workover operations**

**Workshops**

USE: **Conferences**

**World**

SN: Use for worldwide studies, e.g. economics, commodity statistics. For world geographic descriptors, see World entries facet in Geographic Authority List  
 RT: Geographical distribution

**World Wide Web**

USE: **Internet**

**Worm culture**

BT: Cultures  
 RT: Aquatic invertebrates  
 Bait culture  
 Frog culture

**Wounding**

BT: Catching methods  
 RT: Hunting  
 Whaling statistics  
 Wounding gear

**Wounding gear**

UF: Harpoons  
 Impaling gear  
 BT: Fishing gear  
 RT: Spear fishing  
 Wounding

**Wounds**

USE: **Injuries**

**Wreck location**

BT: Detection  
 RT: Surveying underwater  
 Underwater object location  
 Wrecks

**Wreck recovery**

USE: **Salvaging**

**Wrecks**

RT: Flotsam  
 Navigational hazards  
 Salvaging  
 Ship losses  
 Wreck location

**WWW**

USE: **Internet**

**X-ray analysis**

USE: **X-ray spectroscopy**

**X-ray diffraction analysis**

BT: X-ray spectroscopy  
 RT: Diffraction

**X-ray emission analysis**

BT: X-ray spectroscopy

**X-ray fluorescence analysis**

BT: X-ray spectroscopy

**X-ray inspection**

BT: Inspection  
 RT: X-ray spectroscopy  
 X-rays

**X-ray spectroscopy**

SN: Before 1982 search also X-RAY ANALYSIS  
 UF: X-ray analysis  
 BT: Spectroscopic techniques  
 NT: X-ray diffraction analysis  
 X-ray emission analysis  
 X-ray fluorescence analysis  
 RT: Chemical analysis  
 Radiography  
 X-ray inspection  
 X-rays

**X-rays**

BT: Electromagnetic radiation  
 RT: X-ray inspection  
 X-ray spectroscopy

**Xanthophores**

USE: **Chromatophores**

**Xanthophylls**

BT: Photosynthetic pigments  
 RT: Photosynthesis

**XBTs**

UF: Expensible  
 bathythermographs  
 BT: Bathythermographs  
 NT: AXBTs  
 RT: Thermistors

**Xenon**

BT: Rare gases  
 RT: Xenon isotopes



**Xenon isotopes**

BT: Isotopes  
RT: Xenon

**Xylene**

BT: Aromatic hydrocarbons

**Xylose**

BT: Monosaccharides  
RT: Aldehydes

Yacht harbours

USE: **Marinas**

**Yachting**

BT: Boating  
RT: Yachts

**Yachts**

BT: Sailing ships  
RT: Marinas  
Yachting

**Yarns**

UF: Twine  
BT: Gear materials  
RT: Synthetic fibres

Yaw

USE: **Yawing**

**Yaw response**

BT: Dynamic response  
RT: Buoy motion effects  
Yawing

**Yawing**

UF: Yaw  
BT: Ship motion  
RT: Buoy motion effects  
Rolling  
Yaw response

**Year class**

RT: Age composition

Year to year variations

USE: **Annual variations**

Yearly changes

USE: **Annual variations**

**Yeasts**

BT: Microorganisms  
RT: Fermentation  
Microbiological strains  
Single cell proteins

Yellow substance

USE: **Gelbstoff**

Yellow tail fisheries

USE: **Carangid fisheries**

**Yield**

UF: Yield tables  
NT: Potential yield  
RT: Biological production  
Biomass  
Fishing mortality  
Overfishing  
Population number  
Recruitment  
Yield-per-recruit  
Yield predictions

**Yield-per-recruit**

UF: Yield/recruit  
YPR  
RT: Biomass  
Fishing mortality  
Recruitment  
Yield

**Yield point**

BT: Mechanical properties  
RT: Collapse strength  
Deformation  
Strength

**Yield predictions**

RT: Prediction  
Yield

Yield tables

USE: **Yield**

Yield/recruit

USE: **Yield-per-recruit**

**Yolk**

RT: Cytoplasm  
Eggs  
Proteins  
Vitellogenesis

Yolk formation

USE: **Vitellogenesis**

YPR

USE: **Yield-per-recruit**

**Ytterbium**

BT: Lanthanides  
RT: Ytterbium isotopes

**Ytterbium isotopes**

BT: Isotopes  
RT: Ytterbium

**Yttrium**

BT: Alkaline earth metals  
RT: Yttrium isotopes

**Yttrium isotopes**

BT: Isotopes  
RT: Yttrium

**Zeolites**

BT: Silicate minerals  
NT: Analcite

Clinoptilonite

Phillipsite

RT: Metamorphic rocks

**Zinc**

BT: Heavy metals  
RT: Ferromanganese nodules  
Metalliferous sediments  
Zinc compounds  
Zinc isotopes

**Zinc compounds**

BT: Chemical compounds  
RT: Zinc

**Zinc isotopes**

BT: Isotopes  
RT: Zinc

**Zircon**

BT: Silicate minerals  
RT: Placers  
Zirconium

**Zirconium**

BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Zircon  
Zirconium compounds  
Zirconium isotopes

**Zirconium compounds**

BT: Chemical compounds  
RT: Zirconium

**Zirconium isotopes**

BT: Isotopes  
RT: Zirconium

**Zoeae**

BT: Crustacean larvae

**Zonal distribution**

SN: Distribution East-West  
between or along lines of  
latitude. Used only as a qualifier  
BT: Geographical distribution  
RT: Hydrographic sections  
Meridional distribution

Zonal wind systems

USE: **Planetary winds**

Zonation (ecological)

USE: **Ecological zonation**

**Zoobenthos**

UF: Benthic fauna  
BT: Benthos  
RT: Aquatic animals

Zoogeography

USE: **Biogeography**

Zoological drawings

USE: **Illustrations**

**Zoologists**

BT: Biologists  
NT: Carcinologists  
Entomologists  
Ichthyologists  
Malacologists  
Mammalogists  
Ornithologists  
RT: Taxonomists  
Zoology

**Zygotes**

RT: Diploids  
Ploidy  
Reproduction  
Sexual cells

**Zoology**

BT: Biology  
NT: Conchology  
Invertebrate zoology  
Vertebrate zoology  
RT: Animal physiology  
Animal populations  
Aquatic animals  
Biogeography  
Embryology  
Palaeontology  
Species  
Taxonomy  
Zoologists

**Zooplankton**

UF: Animal plankton  
Macroplankton  
BT: Plankton  
NT: Gelatinous zooplankton  
Holoplankton  
Ichthyoplankton  
Meroplankton  
Sapropylankton  
RT: Aquatic animals  
Blooms  
Food organisms  
Nekton collecting devices  
Patchiness  
Secondary production  
Zooplankton culture

**Zooplankton culture**

BT: Cultures  
RT: Brine shrimp culture  
Continuous culture  
Cultured organisms  
Zooplankton

Zoosemiotics

USE: **Animal communication**

Zoospores

USE: **Spores**

**Zooxanthellae**

SN: Symbiotic unicellular yellow-green algae occurring in some radiolarians, flatworms and polyps  
BT: Algae  
RT: Symbionts

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