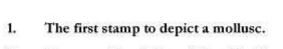
Classification of Mollusca: a classification of World-wide mollusca. (2019, 5th ed., 276p.)



2. Linnaeus, The father of Classification.

3. General 3.1 Recycled shells 3.2 South African Infra-tidal sea fauna.

3.3 Freshwater and mangrove shells 3.4 Land molluscs

3.4 Fossils Classification

4.1 Class Gastropoda 4.1.1. Patellogastropoda 4.1.2. Pulmonates 4.1.3. Opisthobranchia

4.1.4. Streptoneurous 4.2 Class Bivalvia—mussels 4.3 Class Polyplacophora- coat of mail shells

4.4 Class Cephalopoda-Octopus, Nautilus and squid Uses and Abuses

5.1 Edible and commercial exploitation 5.2 Jewellery and decorations

5.3 Money

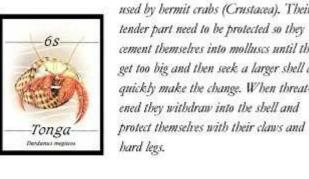
5.4 Poisonous molluscs

5.5 Molluscs in art 5.5.1. Drinking vessels 5.5.2. Musical instruments, trumpets

5.5.3. Ornaments

5.5.4. Coat of Arms 5.5.5. Mollusc Tales 5.5.6. Book Art. 5.5.7. Art.





3.1. Recycled Shells Discarded shells are often recycled and used by hermit crabs (Crustacea). Their tender part need to be protected so they cement themselves into molluscs until they get too big and then seek a larger shell and quickly make the change. When threatened they withdraw into the shell and



1. The First Stamp

The first stamp issued depicting a

mollusc was in 1859, only 10 years after the first stamp. It was printed in Bahamas. It depicts Queen Victoria

with a Queen Conch bottom right.

2. Linnaeus—Father of Classification

Classification of the animal kingdom is called

the Binominal System which was devised by

Carl Linnaeus at the Upsala University of

The Systema Naturae by Linnaeus, was on

flowers. The system was later accepted for the

Stamps commemorating Lin-

naeus (Linné) were issued in

many countries, some of them

Systema Naturae.

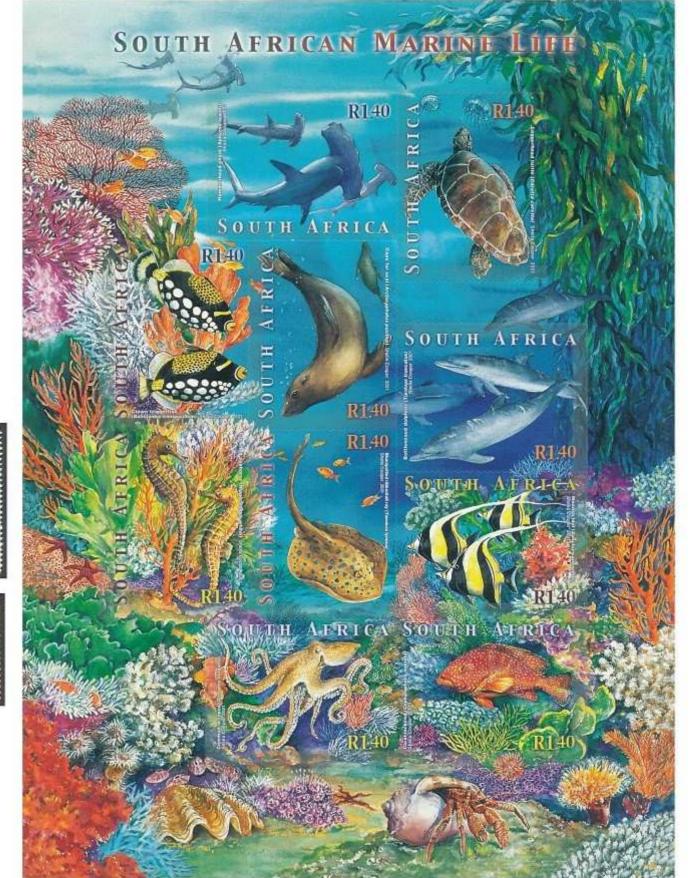
to commemorate the publication

classification of all living things. Classification

utilises Kingdoms, Classes, Families, Genera

and species for making sense of the world

3.2. South African Infra-Tidal sea fauna Stamp

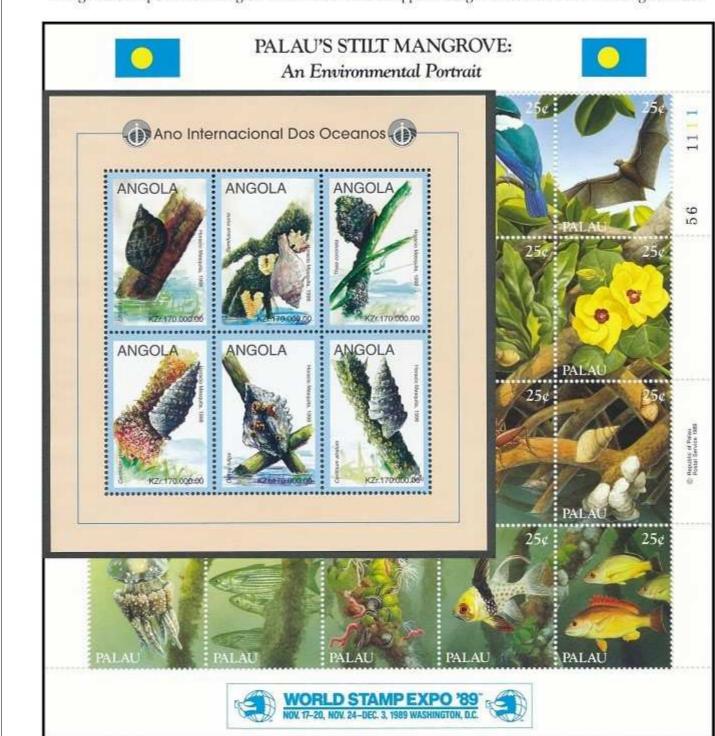


Molluscs in the sea generally don't stay off the ocean floor for long or without assistance. Molluses which float on the surface of the sea are called pelagic. The Cephalopods (Octopus and Squid) swim for short distances or at a low level searching for prey. The Patelogastropoda are herbivores and spend their lives on rocks grazing. Bivalves are filter feeders and either live cemented to rocks or under the sand.

Pages 1-2

3.3. Fresh water and Mangrove Molluscs.

Mangrove swamps are tidal and grow in shallow water and supports a large number of animals including molluscs.



Molluses in the mangrove swamps live in the tidal area of the roots of the mangroves. Bivalves cement themselves to the roots to take advantage of the food which is brought in

with the rising tide, they are filter feeders. The Gastropods are mobile so they can move to areas up and down the mangrove roots in

Their shells are generally very heavy and thick. They also lay their eggs above the water at low tide, they will be covered at high tide.

3.4. Land Molluscs. Land molluscs are generally hermaphrodites and live underground, on the surface on also in trees. Shells are thin.



Brightly coloured tree snails. Surface garden snail are generally very drab and edible. Those that live underground are very small.

3.5. Fossil Molluscs.

DOMINICA

4.1.4. Streptoneurous.

REPUBLIC*MALDIVE

Spiny Murex known

Trochus and Turbo a group of edi-

ble molluses and the operculum

is often called mermaid's money.

WALLIS ET FUTUNA

as a Venus Comb

fossil record

Fossils exist in all the classes but by far the greatest number are the Ammonites which can measure up to one metre across. Some fossils still exist today. If a fossil does not have a modern representative it is difficult to classify as they can not be properly analysed because what we see as the fossil shell is in fact sand which accumulated within it and was fossilised leaving no part of the original shell at all.

Streptoneurous (twisted) gastropods with an anteriorly located mantle cavity (space lined with epidermis); operculum (protective cover)

Tibia so named for the

long siphonal canal re-

praea is a favour-

te with collectors

oecause of the

shiny shells. This

sembling a tibia

generally present; sexes separate; shell can usually hold entire animal; primarily marine, several freshwater and terrestrial groups; about



Pages 3-4

Lambis lambis also

Afrivoluta pringeli known

only from off South Afri-

ca and the only shell in

the genus and used as the

emblem for the Concho-

Cypraeacassis rufa a heavy

logical Society.

known as the spider

4. Classification of Mollusca.

The Binominal System was devised by Carl Linnaeus at the Upsala University of Sweden. His classification system is like a family name and a given name and called them Genus (spelled with a capital letter) and a species (spelled with a small letter). Genera were collected into Families and families into Classes, the classes collected into a Phylum (in this case, Mollusca). Although it not always done, the full name of a shell is Genus species Author and Date.

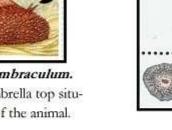
4.1. Class Gastropoda.

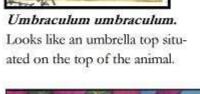
By far the largest group in the mollusca are the gastropods The Gastropoda has many sub-groups from ancient forms to modern. Sea, Land and Fresh water. Some Gastropods have begun developing smaller shells and in some cases none at all.

4.1.1. Patellogastropoda.

Conical-shelled limpets, without slits or holes, found in rocky shallow waters (Acmaeidae and Patellidae). Patellaogastropoda have not changed much over the centuries and are flat shells like a knee cap (called Patella after the shells). They graze on algae on rocks and hence do not move









Patella granatina or rock mussels are found intertid-

Giant clam, Tridacna gigas often

depicted in comic books trapping

diver's air supply





during war time.

4.1.2. Pulmonata.

Pulmonata, or "pulmonates", is

an informal group (previously

an order, and before that a sub-

class) of snails and slugs charac-

terized by the ability to breathe

air, by virtue of having a pallial

lung instead of a gill, or gills.

Pulmonates are hermaphrodit-

ic, and some groups possess

APUA NEW GUINE

love darts.

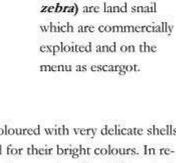
A group of molluses, the Pulmonata, which includes the

Some of the land

snails are very small and many

live under rocks or underground.

land snails and slugs and many freshwater snails





Helix aspersa and

Achatina immaculata

(previously Achatina





Grunay SCOTLAND





Pages 5-6

The octopus

has 8 tentacles

species two have

adapted to the

producing and

carrying of the

Nautilus shell

which they cre-

ate and is used

for carrying

their eggs

The squid (Sepia) is a multi-

ourpose animal and can grow

to very large sizes. There are stories of these animals en-

They are eaten as squid, cala-

Bird cages are festooned with cuttlefish which is produced

Sepia ink for printing was from squid, hence the name

to the surroundings while

waiting for their prey.

They pulse colour to blend in

Pages 9-10

gulfing sailing ships.

mari or chokka.

y some squids.

and in some

4.1.3. Opisthobranches.

front (of the heart).

Opisthobranchia, are the sea slugs, sea butterflies, and sea hares, characterized by a vestigial or absent mantle and shell and two pairs of tentacles. Opisthobranch means "gills behind" (and to the right) of the heart. In contrast, Prosobranch means gills in

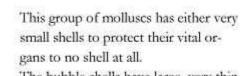


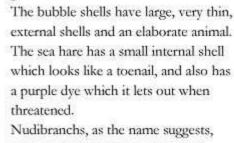
NOUVELLE - CALÉDONIE

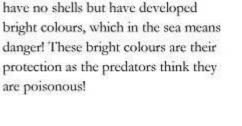
ET DÉPENDANCES

AQUARIUM DE NOUMEA

PREMIER JOUR D'ÉMISSION













Mitra so named because they resemble a papal crown, the mitre, and the red resembles the colour worn by cardinals and the pope.



'wentletrap", a circular

wet dissolved...

KYΠΡΟΣ-CYPRUS-KIBRIS

Murex brandaris used to

extract the purple dye for

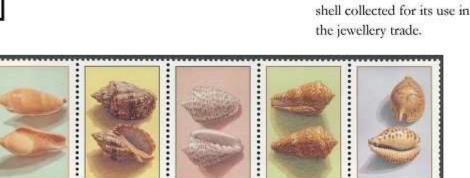
Imperial cloaks

SOLOMON ISLANDS

looking like lips which are

commonly called jam tarts.

Volva are generally small shells



Vermeiculata

known as the

Florida worm





lewellery made

with shells.

bracelets, ea

and necklaces

Voluta a very sought after

group by collectors be-

cause of their rarity.

ANGOLA NKZ 400

known as the pelican's



New Zealand

used in jewellery

making for its

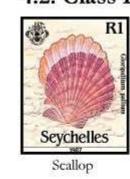
rich mother of

pearl colours

Pages 11-12

Pages 15-16

4.2. Class Bivalvia - mussels. R1 53p A BR DOMINICA

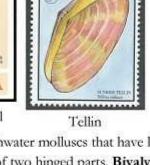


Jersey at





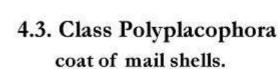
Haliotis or Abalone shells (known in South Africa as Perlemoen) an evolutionary old group of herbivores.



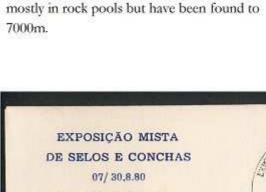


well as a number of families that live in freshwater. The majority are filter feeders.

Bivalvia, is a class of marine and freshwater molluses that have laterally compressed bodies enclosed by a shell consisting of two hinged parts. Bivalves as a group have no head and they lack some usual molluscan organs like the radula. They include the clams, oysters, cockles, mussels, scallops, and numerous other families that live in saltwater, as



Chitons are marine molluses of varying size in the class Polyplacophora, formerly known as Amphineura. About 940 extant and 430 fossil species are recognized. Chitons have segments on the back all held together by a girdle. They are grazers on algae







5.5. Molluscs in Art.

5.5.1. Drinking Vessels.

Nautilus shells trimmed in precious

metals on stands as chalices.

The US Submarine was named Triton after a mollusc

The cover shows a merman blowing on a Triton shell

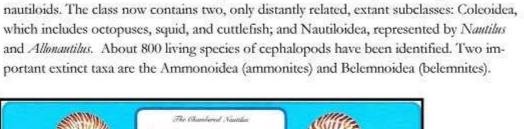
and a Triton shell also depicted below.

The name Argonauts is also a mollusc name, referring

to the Octopus shell.

4.4. Class Cephalopoda- Octopus, Nautilus, Squid and Ammonites.

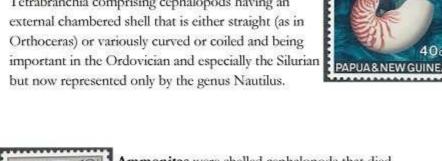
A cephalopod is any member of the molluscan class Cephalopoda meaning "head-feet") such as a squid, octopus, cuttlefish, or nautilus. They are exclusively marine animals and have a prominent head, and a set of arms or tentacles modified from the primitive molluscan foot. Fishermen sometimes call cephalopods "inkfish," referring to their common ability to squirt ink. The ink from squids was used in printing and resulted in Sepia printing (Sepia also the Genus of the squid)



Cephalopods became dominant during the Ordovician period, represented by primitive



Nautiloidea is an order or other subdivision of Tetrabranchia comprising cephalopods having an external chambered shell that is either straight (as in





Many cultures use conch

shells or Tritons as

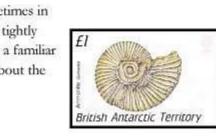
musical instruments or

in religious ceremonies

Ammonites were shelled cephalopods that died out about 66 million years ago. Fossils of them are found all around the world, sometimes in ery large concentrations. The often tightly ound shells of ammonites may be a familiar sight, but how much do you know about the mimals that once lived inside?

5.5.2. Musical Instruments, Trumpets.

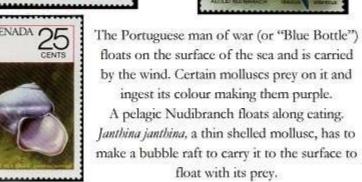




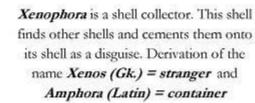


5.5.5. Mollusc Tales.



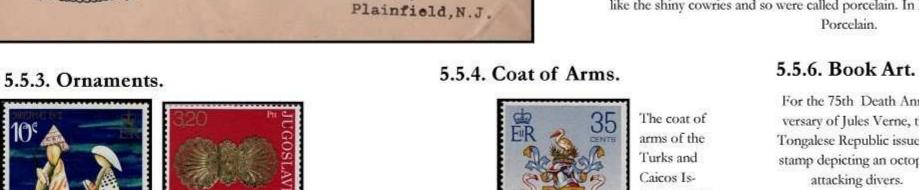


The Golden Cowrie with scientific name





ing them Porcello (piglets). When Marco Polo arrived back in Venice with shiny objects they looked like the shiny cowries and so were called porcelain. In French the word for cowrie is Porcelain.



Wm. Judisch

Box 11,

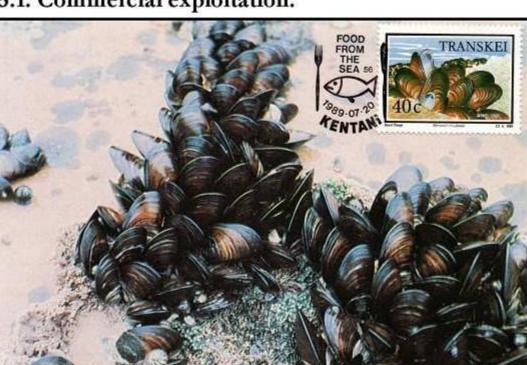


For the 75th Death Anniversary of Jules Verne, the Tongalese Republic issued a stamp depicting an octopus attacking divers. Verne also named his submarine The Nautilus a



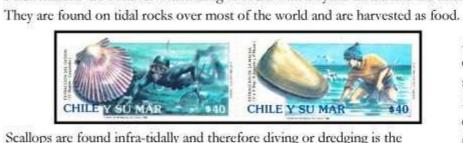
5.1. Commercial exploitation.

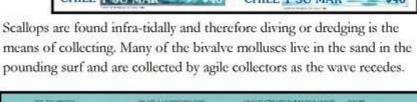
5. Uses and Abuses



"Bubble shells" (Hydatina) have a frilly animal which makes it look like a delicately flowing seaweed

Black mussels are Bivalves which cling to rocks with a byssal thread and are filter feeder.







Seychelles, being an island depends heavily on the sea for food. Molluscs play a large part in feeding the inhabitants, as a result there are many traditional recipes from families on the preparation of these dishes. These stamps issued in the Seychelles also includes recipes.



Land snails like Helix

複十字シール あなたを結核から守るために

A Japanese Tuberculosis Foundation issued a miniature sheet

depicting two mollusc designs. One depicting a Pecten and a

Turrid and the other two spiny Murex.

Amongst the

cephalopods t

squid is caught

for food and

ends up on the

table as chokka

or calamari.

The Queen Conch is harvest-

decoration and is used by

some tribes as a trumpet.

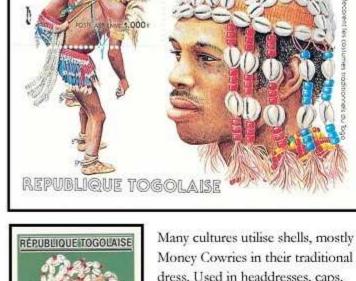
ed in the Caribbean for food,

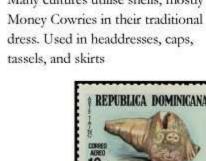
aspersa, are often eaten in restaurants as escargot with garlic butter. used as a lure.

the table. In the

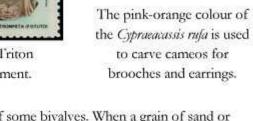
stamp above, an-

5.2. Jewellery and decorations.









Although not strictly a mollusc, the peal is a product of some bivalves. When a grain of sand or grit gets into the shell it is an irritant and nacre coated and is harvested as pearls. Since earliest times pearls have been harvested for their beauty, as ornamentation from jewellery to crowns.

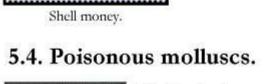


5. Uses and Abuses



Cowrie money. Cowrie shells have long been used as Octopus on coin. currency in many countries. A money cowrie is named Cypraea





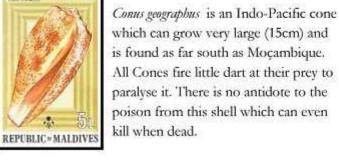


re poisonous.

marked cones are ven-

other tent marked cones

omous. Most of the





A gold ornament made in the form

URKS AND CAICOS ISLANDS

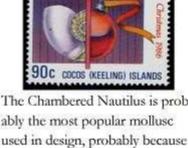
mollusc.



5.5.7. Molluscs used in Design.



Money cowries and beads used in the design of this Kenyan miniature sheet.



UNITAS MALACOLOGICA

8. NEMZETKÖZI KONGRESSZUS



1983 they produced a mmemorative postcard lepicting a Chambered Nautilus. The printed tamp is of a stylised land nail and the canceller of the live animal of Helix

A Helix aspersa in disguise watching a

farmer tilling the fields, oblivious of the

danger that he could end up being eaten.

ological Congress in

Oil is derived from shells

amongst others. The Shell Petrol Company of the Netherlands used mollusc in their logo, Pecten bivaly



Trochus used to

make buttons

Tunisia issued this stamp commemorating

the International

Amateur Film Festival in Kelibia. One of the in this design fro frames of the film shows a gastropod. Stylised Abalone shell on a stylised sea, showing one of the exports of Mexico.

stylised Conch use

ead art of South Africa utilising buttons made of shells (Trochus).

symbol of Tibetan

Buddhism, used on

and Travancore-

the Conch too.

Cochin. Often the

watermarks were of

tamps from Bhutan

SHELLFISH PURSUITS

The study of mollusca is called Conchology or Malacology. Not all molluscs produce shells and not all "shells" are molluscs. This exhibit begins with the first stamp to depict a shell. This is followed by a tribute to Linnaeus, the father of classification, and an outline of the system and describes the uses and abuses of mollusca. The exhibit is based on the exhibitor's research as published in Classification of Mollusca: a classification of World-wide mollusca. (2019, 5th ed., 276p.)

1. The First Stamp



The first stamp issued depicting a mollusc was in 1859, only 10 years after the first stamp. It was printed in Bahamas. It depicts Queen Victoria with a Queen Conch bottom right.

The first stamp to depict a mollusc. 1.

- Linnaeus, The father of Classification. 2.
- 3. General
 - Recycled shells 3.1
 - South African Infra-tidal sea fauna.
 - 3.3 Freshwater and mangrove shells
 - 3.4 Land molluscs
 - **Fossils** 3.4

Classification

- Class Gastropoda
 - 4.1.1. Patellogastropoda
 - 4.1.2. Pulmonates
 - 4.1.3. Opisthobranchia
 - 4.1.4. Streptoneurous
- Class Bivalvia—mussels
- Class Polyplacophora- coat of mail shells
- Class Cephalopoda-Octopus, Nautilus and squid

Uses and Abuses

- Edible and commercial exploitation 5.1
- 5.2 Jewellery and decorations
- 5.3 Money
- 5.4 Poisonous molluscs
- 5.5 Molluscs in art
 - 5.5.1. Drinking vessels
 - 5.5.2. Musical instruments, trumpets
 - 5.5.3. Ornaments
 - 5.5.4. Coat of Arms
 - 5.5.5. Mollusc Tales
 - 5.5.6. Book Art.
 - 5.5.7. Art.





2. Linnaeus—Father of Classification

Classification of the animal kingdom is called the Binominal System which was devised by Carl Linnaeus at the Upsala University of Sweden



The Systema Naturae by Linnaeus, was on flowers. The system was later accepted for the classification of all living things. Classification utilises Kingdoms, Classes, Families, Genera and species for making sense of the world





Stamps commemorating Linnaeus (Linné) were issued in many countries, some of them to commemorate the publication of **Systema Naturae**.

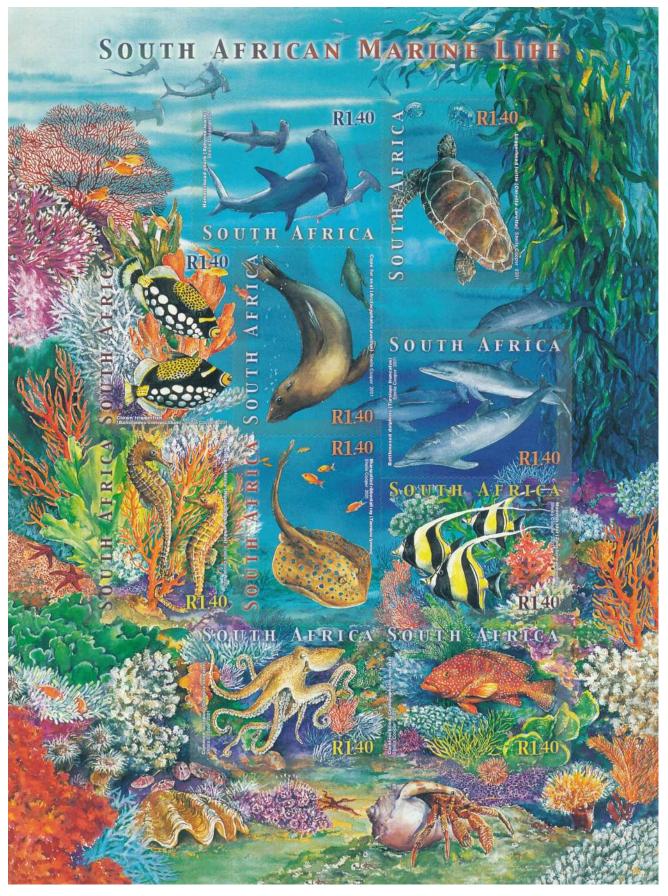


3.1. Recycled Shells

Discarded shells are often recycled and used by hermit crabs (Crustacea). Their tender part need to be protected so they cement themselves into molluscs until they get too big and then seek a larger shell and quickly make the change. When threatened they withdraw into the shell and protect themselves with their claws and hard legs.



3.2. South African Infra-Tidal sea fauna Stamp



Molluscs in the sea generally don't stay off the ocean floor for long or without assistance.

Molluscs which float on the surface of the sea are called pelagic. The Cephalopods (Octopus and Squid) swim for short distances or at a low level searching for prey. The Patelogastropoda are herbivores and spend their lives on rocks grazing. Bivalves are filter feeders and either live cemented to rocks or under the sand.

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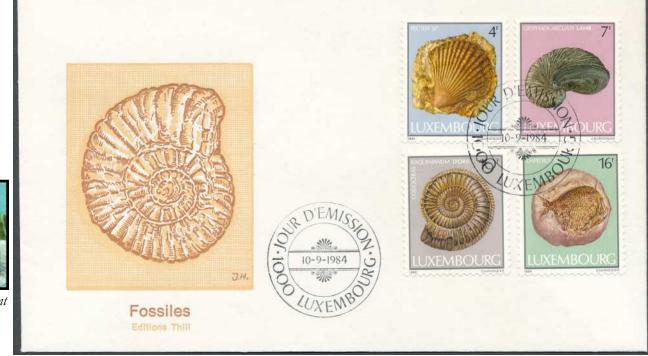
Land molluscs are generally hermaphrodites and live underground, on the surface on also in trees. Shells are thin.



Brightly coloured tree snails. Surface garden snail are generally very drab and edible. Those that live underground are very small.

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Voluta Junonia and extant mollusc also known from the fossil record

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4.1. Class Gastropoda.

By far the largest group in the mollusca are the gastropods.

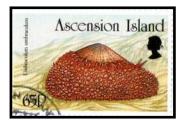
The Gastropoda has many sub-groups from ancient forms to modern.

Sea, Land and Fresh water.

Some Gastropods have begun developing smaller shells and in some cases none at all.

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Conical-shelled limpets, without slits or holes, found in rocky shallow waters (Acmaeidae and Patellidae). Patellaogastropoda have not changed much over the centuries and are flat shells like a knee cap (called *Patella* after the shells). They graze on algae on rocks and hence do not move

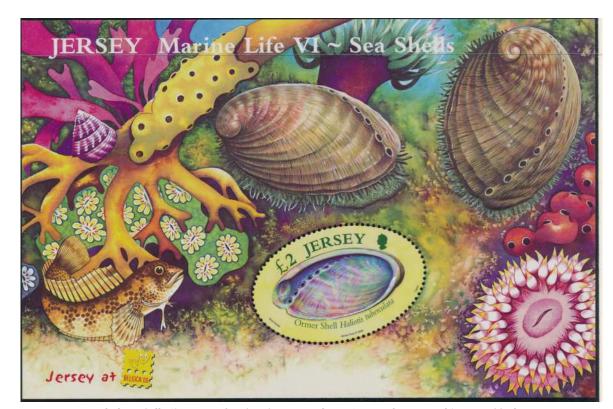


Umbraculum umbraculum.

Looks like an umbrella top situated on the top of the animal.



Patella granatina or rock mussels are found intertid-



Haliotis or Abalone shells (known in South Africa as Perlemoen) an evolutionary old group of herbivores.

4.1.2. Pulmonata.

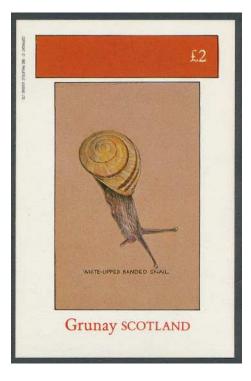
A group of molluscs, the Pulmonata, which includes the land snails and slugs and many freshwater snails



Some of the land snails are very small and many live under rocks or underground.

Pulmonata, or "pulmonates", is an informal group (previously an order, and before that a subclass) of snails and slugs characterized by the ability to breathe air, by virtue of having a pallial lung instead of a gill, or gills. Pulmonates are hermaphroditic, and some groups possess love darts.





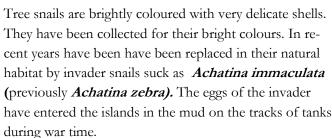




Helix aspersa and Achatina immaculata (previously Achatina zebra) are land snail which are commercially exploited and on the menu as escargot.



















4.1.3. Opisthobranches.

Opisthobranchia, are the sea slugs, sea butterflies, and sea hares, characterized by a vestigial or absent mantle and shell and two pairs of tentacles.

Opisthobranch means "gills behind" (and to the right) of the heart. In contrast, Prosobranch means gills in front (of the heart).









This group of molluscs has either very small shells to protect their vital organs to no shell at all.

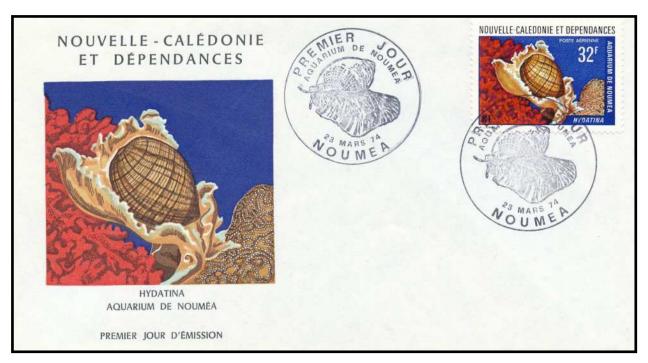
The bubble shells have large, very thin, external shells and an elaborate animal The sea hare has a small internal shell which looks like a toenail, and also has a purple dye which it lets out when threatened.

Nudibranchs, as the name suggests, have no shells but have developed bright colours, which in the sea means danger! These bright colours are their protection as the predators think they are poisonous!









"Bubble shells" (Hydatina) have a frilly animal which makes it look like a delicately flowing seaweed

4.1.4. Streptoneurous.

Streptoneurous (twisted) gastropods with an anteriorly located mantle cavity (space lined with epidermis); operculum (protective cover) generally present; sexes separate; shell can usually hold entire animal; primarily marine, several freshwater and terrestrial groups; about 33,000 species.



Spiny Murex known

as a Venus Comb

KYΠΡΟΣ · CYPRUS · KIBRIS

Murex brandaris used to extract the purple dye for Imperial cloaks



Tibia so named for the long siphonal canal resembling a tibia

Cypraea is a favour-

ite with collectors

because of the

shiny shells. This shiny surface and the wonderful pat-

terns are laid down

which completely

disguising it from

covers the shell

by the mantle



Voluta a very sought after group by collectors because of their rarity.



Lambis lambis also known as the spider conch

Afrivoluta pringeli known

ca and the only shell in

only from off South Afri-

the genus and used as the

emblem for the Concho-

logical Society.



Trochus and Turbo a group of edible molluscs and the operculum is often called mermaid's money.



Volva are generally small shells looking like lips which are commonly called jam tarts.

GILBERT&ELLICE ISLANDS



known as the pelican's





V ermeiculata known as the Florida worm

snail



Cypraeacassis rufa a heavy shell collected for its use in the jewellery trade.



Mitra so named because they re-

semble a papal crown, the mitre,

and the red resembles the colour

worn by cardinals and the pope.

Epitonium commonly known as the "wentletrap", a circular staircase. Once so sought after that someone made one of rice powder, which when wet dissolved..









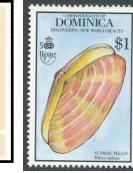


A selection of rare South African shells in this group. They include: Afrivoluta, Voluta, Marginella, Conus, Cypraea.

4.2. Class Bivalvia— mussels.







Tellin

Horse mussel

Giant clam, Tridacna gigas often depicted in comic books trapping diver's air supply

larshall Islands

Bivalvia, is a class of marine and freshwater molluscs that have laterally compressed bodies enclosed by a shell consisting of two hinged parts. Bivalves as a group have no head and they lack some usual molluscan organs like the radula. They include the clams, oysters, cockles, mussels, scallops, and numerous other families that live in saltwater, as well as a number of families that live in freshwater. The majority are filter feeders.

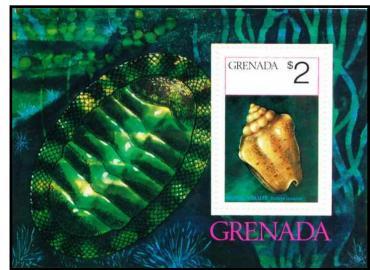


Angel Wings

4.3. Class Polyplacophora coat of mail shells.

Chitons are marine molluscs of varying size in the class *Polyplacophora*, formerly known as Amphineura. About 940 extant and 430 fossil species are recognized.

Chitons have segments on the back all held together by a girdle. They are grazers on algae mostly in rock pools but have been found to 7000m.

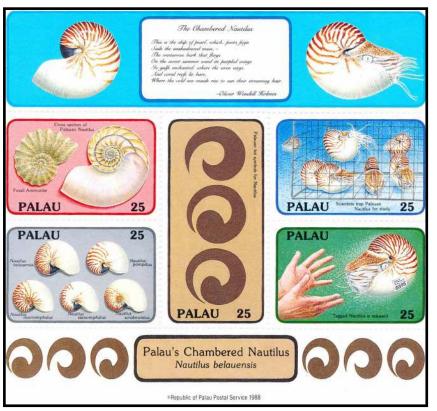




4.4. Class Cephalopoda - Octopus, Nautilus, Squid and Ammonites.

A **cephalopod** is any member of the molluscan class **Cephalopoda** meaning "head-feet") such as a squid, octopus, cuttlefish, or nautilus. They are exclusively marine animals and have a prominent head, and a set of arms or tentacles modified from the primitive molluscan foot. Fishermen sometimes call cephalopods "inkfish," referring to their common ability to squirt ink. The ink from squids was used in printing and resulted in Sepia printing (**Sepia** also the Genus of the squid)

Cephalopods became dominant during the Ordovician period, represented by primitive nautiloids. The class now contains two, only distantly related, extant subclasses: Coleoidea, which includes octopuses, squid, and cuttlefish; and Nautiloidea, represented by Nautilus and Allonautilus. About 800 living species of cephalopods have been identified. Two important extinct taxa are the Ammonoidea (ammonites) and Belemnoidea (belemnites).



Nautiloidea is an order or other subdivision of Tetrabranchia comprising cephalopods having an external chambered shell that is either straight (as in Orthoceras) or variously curved or coiled and being important in the Ordovician and especially the Silurian but now represented only by the genus Nautilus.





Ammonites were shelled cephalopods that died out about 66 million years ago. Fossils of them are found all around the world, sometimes in very large concentrations. The often tightly wound shells of ammonites may be a familiar sight, but how much do you know about the animals that once lived inside?





The **octopus** has 8 tentacles and in some species two have adapted to the producing and carrying of the Nautilus shell which they create and is used for carrying their eggs











The squid (*Sepia*) is a multipurpose animal and can grow to very large sizes. There are stories of these animals engulfing sailing ships.



They are eaten as squid, calamari or chokka. Bird cages are festooned with

cuttlefish which is produced by some squids.

Sepia ink for printing was from squid, hence the name ink fish.

They pulse colour to blend in to the surroundings while waiting for their prey.

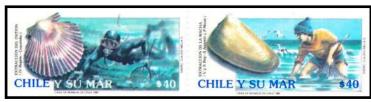


5. Uses and Abuses

5.1. Commercial exploitation.



Black mussels are Bivalves which cling to rocks with a byssal thread and are filter feeder. They are found on tidal rocks over most of the world and are harvested as food.



Scallops are found infra-tidally and therefore diving or dredging is the means of collecting. Many of the bivalve molluscs live in the sand in the pounding surf and are collected by agile collectors as the wave recedes.



Seychelles, being an island depends heavily on the sea for food. Molluscs play a large part in feeding the inhabitants, as a result there are many traditional recipes from families on the preparation of these dishes. These stamps issued in the Seychelles also includes recipes.



The Queen Conch is harvested in the Caribbean for food, decoration and is used by some tribes as a trumpet.









Amongst the

cephalopods the

squid is caught

ends up on the

table as chokka

or calamari.

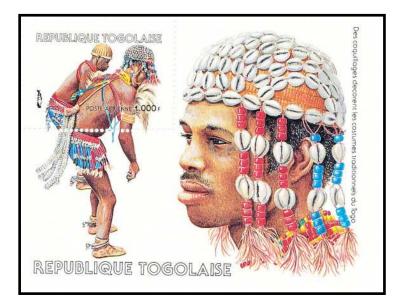
for food and

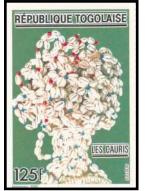
The octopus is also a delicacy for the table. In the stamp above, another mollusc, a Tiger cowrie is used as a lure.



Land snails like *Helix* aspersa, are often eaten in restaurants as escargot with garlic butter.

5.2. Jewellery and decorations.





Many cultures utilise shells, mostly Money Cowries in their traditional dress. Used in headdresses, caps, tassels, and skirts



A carved Triton shell ornament.







Jewellery made with shells, bracelets, earrings and necklaces



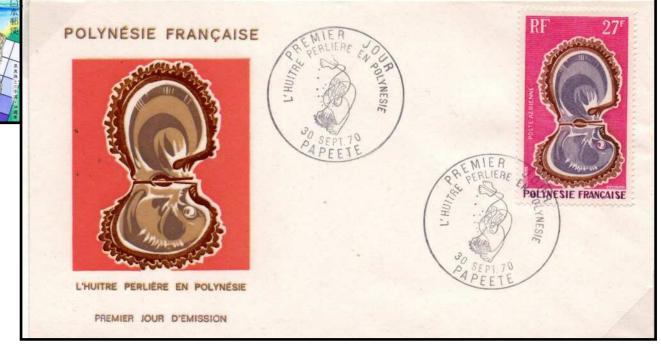


The pink-orange colour of the *Cypraeacassis rufa* is used to carve cameos for brooches and earrings.



The Paua shell of New Zealand used in jewellery making for its rich mother of pearl colours

Although not strictly a mollusc, the peal is a product of some bivalves. When a grain of sand or grit gets into the shell it is an irritant and nacre coated and is harvested as pearls. Since earliest times pearls have been harvested for their beauty, as ornamentation from jewellery to crowns.



5. Uses and Abuses

5.3. Money.





Cowrie money.

Cowrie shells have long been used as currency in many countries.

A money cowrie is named Cypraea moneta to illustrate their use as money. An Octopus depicted on the new

Tuvalu coin.





Octopus on coin.

Cypraea moneta

Shell money.

5.4. Poisonous molluscs.



The blue ringed octopus from Australia is small but very venomous.



Conus and other vividly marked cones are venomous. Most of the other tent marked cones are poisonous.



Conus geographus is an Indo-Pacific cone which can grow very large (15cm) and is found as far south as Moçambique. All Cones fire little dart at their prey to paralyse it. There is no antidote to the poison from this shell which can even kill when dead.

5.5. Molluscs in Art.

5.5.1. Drinking Vessels.





Nautilus shells trimmed in precious metals on stands as chalices.

The US Submarine was named Triton after a mollusc. The cover shows a merman blowing on a Triton shell and a Triton shell also depicted below.

The name Argonauts is also a mollusc name, referring to the Octopus shell.

5.5.2. Musical Instruments, Trumpets.



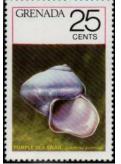




5.5.5. Mollusc Tales.







The Portuguese man of war (or "Blue Bottle") floats on the surface of the sea and is carried by the wind. Certain molluscs prey on it and ingest its colour making them purple.

A pelagic Nudibranch floats along eating. Janthina janthina, a thin shelled mollusc, has to make a bubble raft to carry it to the surface to float with its prey.

Xenophora is a shell collector. This shell finds other shells and cements them onto its shell as a disguise. Derivation of the name Xenos (Gk.) = stranger and Amphora (Latin) = container





The Golden Cowrie with scientific name Cypraea aurantia which means orange (fruit). If the intention was to name it **Golden** it should have been aureum.



The tiger cowrie was used by granny to darn socks and is carved to make grey cameos, while in Italy the children played with cowries calling them Porcello



(piglets). When Marco Polo arrived back in Venice with shiny objects they looked like the shiny cowries and so were called porcelain. In French the word for cowrie is Porcelain.



5.5.3. Ornaments.





A Nativity scene made of shells. A gold ornament made in the form of a Bivalve.

5.5.4. Coat of Arms.



The coat of arms of the Turks and Caicos Islands depicts a Queen Conch shell.

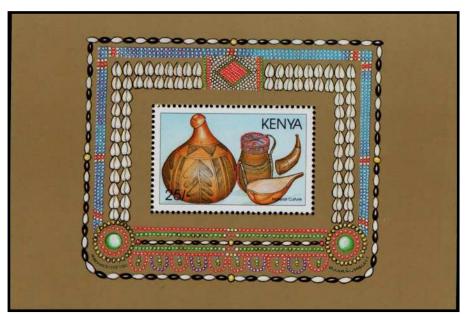
5.5.6. Book Art.

For the 75th Death Anniversary of Jules Verne, the Tongalese Republic issued a stamp depicting an octopus attacking divers.

Verne also named his submarine The Nautilus a mollusc.



5.5.7. Molluscs used in Design.



Money cowries and beads used in the design of this Kenyan miniature sheet.





The Chambered Nautilus is probably the most popular mollusc used in design, probably because of its perfect Archimedean Spiral.





A Japanese Tuberculosis Foundation issued a miniature sheet depicting two mollusc designs. One depicting a Pecten and a Turrid and the other two spiny Murex.



A *Helix aspersa* in disguise watching a farmer tilling the fields, oblivious of the danger that he could end up being eaten.

Tunisia issued this stamp commemorating the International Amateur Film Festival in Kelibia. One of the frames of the film shows a gastropod.



Trochus used to

make buttons



Stylised Conch shells, a symbol of Tibetan Buddhism, used on stamps from Bhutan and Travancore-Cochin. Often the watermarks were of the Conch too.





Portugal



Stylised Abalone shell on a stylised sea, showing one of the exports of Mexico.



For the Hungarian Malacological Congress in 1983 they produced a commemorative postcard depicting a Chambered Nautilus. The printed stamp is of a stylised land snail and the canceller of the live animal of *Helix aspersa*.

Oil is derived from shells amongst others. The *Shell Petrol Company* of the Netherlands used a mollusc in their logo, a Pecten bivalve.

