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FISHERIES RESEARCH BOARD OF CANADA

MANUSCRIPT REPORT SERIES

No. 1332

MAR 13 1975

A Preliminary Annotated Bibliography on Georgia Strait Fishes

by

B. E. McInnes, F. W. Nash and H. Godfrey

Pacific Biological Station, Nanaimo, B.C.

November 1974

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INTRODUCTION

Early in 1973, the "Georgia Strait Committee" was formed at this Station and given terms of reference to develop proposals for biological and oceanographic research in the Strait. Such research was to be directed towards obtaining information that is becoming increasingly needed to manage and conserve the marine resources of these unique waters. Problems of management and conservation are becoming critical in the Strait as the multiple-use demands on its resources spiral. The nature of these demands ranges from intensive industrial use such as ocean-floor mining and shipping, to sport fishing and the establishment of marine parks and estuaries.

From the outset, the Committee recognized that over the years a great amount of scientific investigation already had been conducted in the Strait, and that vast amounts of biological and oceanographic information on the Strait already existed. The Committee also appreciated, however, that this information was widely scattered in a considerable variety of publications, and in addition, and in particular, that much information yet remained unreported and unaccessible in files and in original field records. It was obvious that before new research projects were initiated, the existing data should be examined and synthesized. This bibliography has been compiled, therefore, to assist in that objective. It may be considered a "working" bibliography, in the sense that the format is designed in such a way that new documents can be entered into the punch card deck, and a new listing made quickly and at a low cost.

This particular bibliography is specifically concerned with the fishes of Georgia Strait, and other bibliographies are being prepared through the Committee on estuaries and on other marine organisms. However, a degree of flexibility has been maintained, through the inclusion of other documents that were considered useful for the general purpose of the bibliography, particularly reports on such related subjects as food organisms, migrations and so forth. Also included are some reports on research conducted in adjacent waters (Puget Sound, for example).

The authors of the bibliography recognize that it is by no means a completed compilation on the subject. From its users, we would welcome both suggestions for the inclusion of new material, and constructive comments on its design. In particular, we are anxious to obtain information and original data that are as yet unreported, or that to date have had only very limited dissemination. If readers agree on the usefulness of a "working" document such as this, then a more inclusive bibliography should prove especially valuable in this field in the future.

DEFINITIONS

Subject

In addition to material on fishes of the Strait, the bibliography includes documents on Georgia Strait oceanographic studies, on shellfish and

crustacea, fishing methods, catch statistics, stream surveys, and several other pertinent organisms and topics.

Area

Arbitrarily, Georgia Strait for these purposes extends from Johnstone Strait in the north to the entrance of the Strait of Juan de Fuca in the south (thus encompassing the islands of the Juan de Fuca Archipelago). However, some literature dealing with adjacent waters (particularly Puget Sound), and the Queen Charlotte Islands (information on certain organisms), also has been included.

LITERATURE SOURCES, CITATIONS, AND BIBLIOGRAPHY FORMAT

Literature sources

The bibliography consists primarily of publications of the Fisheries Research Board of Canada, (formerly, the Biological Board of Canada), and includes papers from its Journal, Studies, Studies Supplements, Interpretive Articles, the Bulletin, Circulars, Manuscript Reports, Technical Reports and Progress Reports of Pacific Coast Stations. In addition, some university theses, trade journal articles, statistical bulletins and some papers from Puget Sound area sources have been included.

Literature citations

All serial titles and other publications have been abbreviated in accordance with Biosis. List of serials.

Bibliography format

To facilitate the use of a keyword information retrieval system (Storie, 1971), each document was described in the following format:

AUTHOR(S) = DOCUMENT DESCRIPTION (E.G., PUBLISHER, DOCUMENT TYPE AND LOCATION CODE, NUMBER OF PAGES, ETC.) + PUBLISHING DATE = DOCUMENT TITLE + ADDITIONAL KEYWORDS TO THOSE IN THE TITLE = ABSTRACT =

The "ADDITIONAL KEYWORD" field (and the preceding + sign) may or may not be present. An unavailable abstract was indicated by the letters NA, an unavailable publishing date was indicated by the letters 00.

Five document location codes were used, and are as follows:

LIB - the Pacific Biological Station library.

GSM - The Georgia Strait Program file (Pacific Biological Station).

OPL - the Fisheries and Marine Service, Operations
(Vancouver) library.

AUT - not available in the above libraries, but
presumably available through the author(s)
or publisher.

OOO - not available from any known location.

ORGANIZATION OF THE BIBLIOGRAPHY

The bibliography contains 1410 references, and it consists of three parts:

1. Author Index. This is an alphabetical listing of the authors. For each author, one or more numbers (document numbers) are listed, which are the numbers given to their papers as they appear in the Bibliographic Listing (below).

2. Keyword Index. This is an alphabetical listing of significant words selected from the title of each document included, and of other pertinent words, in accordance with the instructions for using the bibliography as given below.

3. Bibliographic Listing. This is a non-ordered list of all the documents included in the bibliography, with their assigned document numbers in numerical sequence.

HOW TO USE THE BIBLIOGRAPHY

Its use is best illustrated by giving an example, employing the Keyword Index. Let us say that we are interested in: (a) COHO salmon; and (b) COHO salmon in SAANICH INLET.

For (a), we would refer to the Keyword Index for COHO, and find 115 documents listed by number from the Bibliographic Listing, all of which mention coho in some context.

For (b), we would refer to the Keyword Index for numbers repeated under the two keywords, COHO and SAANICH INLET -- which would be number 1231 only.

Another example, might be catch statistics information on coho salmon, for which the keywords would be COHO and CATCH STATISTICS. In this example, the numbers common to both would be 173, 243 and 284.

Further explanation on the use of the bibliography is made by explaining the source and selection of the words used in the Keyword Index. The computer program originally generated more than 15,000 keywords, most of which were irrelevant for the purpose at hand, and they were, therefore, discarded (such words from titles as "important," "spiny," "what," "Columbia," "analysis" and so forth).

Most generic and species names that appeared in titles also were discarded in favour of the appropriate general common name. For example, "dogfish" instead of Squalus suckleyi or Squalus acanthias. In addition, further reduction in the number of keywords was achieved by grouping taxonomically related organisms under an accepted common name (the several species of clams, for example, under the keyword "clam"), or under a common "Class," "Order," or "Family."

ACKNOWLEDGEMENTS

The authors wish to acknowledge the excellent assistance given by Mrs. Jocelyne Groves in searching for and selecting the documents contained herein; Mrs. Monica Mayes for her patience and accuracy in the IBM coding; the staffs of the Pacific Biological Station computing center and library, and the library staff of the Operations Branch of the Fisheries Service. We are especially grateful to those individuals who contributed unpublished reports and data.

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FISHES

70,	84,	98,	99,	176,	283,	365,	415,	418,
419,	432,	434,	439,	450,	496,	588,	612,	623,
624,	637,	677,	683,	687,	689,	717,	770,	771,
797,	830,	834,	968,	1008,	1042,	1043,	1044,	1087,
1304,	1305,	1311,	1312,	1328,	1338,	1397,		

FISHING

140,	141,	143,	144,	145,	146,	148,	149,	150,
151,	152,	153,	156,	157,	175,	280,	486,	826,
872,	1158,	1187,	1198,	1201,	1203,	1211,	1212,	1212,
1213,	1214,	1215,	1217,	1217,	1217,	1218,	1220,	1233,
1236,	1241,	1246,	1249,	1252,	1285,	1303,	1309,	1377,

FISHWAYS

522,	760,	1157,	1166,	1169,	1196,	1247,		
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FITZ HUGH SOUND

450,	899,							
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FJORD

30,	406,	765,						
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FOOD

24,	40,	49,	58,	58,	190,	205,	206,	207,
208,	209,	210,	305,	306,	307,	308,	432,	467,
474,	584,	588,	634,	701,	702,	703,	704,	781,
782,	846,	898,	902,	903,	1022,	1047,	1048,	1059,
1085,	1107,	1111,	1322,	1409,				

FRASER RIVER

13,	14,	15,	67,	76,	105,	106,	107,	108,
233,	244,	286,	288,	292,	303,	307,	345,	363,
375,	407,	436,	464,	469,	494,	524,	526,	527,
528,	529,	530,	531,	532,	533,	535,	536,	537,
538,	539,	553,	554,	595,	596,	597,	599,	600,
601,	602,	603,	604,	605,	618,	638,	648,	673,
674,	691,	720,	723,	724,	759,	774,	778,	810,
817,	842,	871,	896,	924,	1023,	1080,	1082,	1085,
1099,	1100,	1109,	1123,	1152,	1156,	1159,	1162,	1164,
1164,	1171,	1178,	1179,	1182,	1183,	1192,	1213,	1224,
1227,	1231,	1242,	1245,	1278,	1279,	1280,	1290,	1386,
1407,	1408,							

FRIDAY HARBOUR

96,	381,	511,	567,	614,	642,	645,	646,	650,
654,	655,	657,	658,	733,	736,	738,	739,	775,
776,	786,	789,	812,	813,	824,	840,	1006,	1009,

FRIDAY HARBOUR (CONT'D)
1025, 1027, 1031,

FRY
16, 338, 438, 810, 923, 926, 1091, 1092, 1385,
1403,

FULFORD HARBOUR
474, 865,

GABRIOLA ISLAND
95, 565,

GANGES HARBOUR
398, 1401,

GEAR
873, 967, 1212,

GEORGIA STRAIT
7, 10, 25, 51, 55, 56, 57, 58, 64,
65, 67, 70, 73, 79, 81, 85, 96, 98,
104, 105, 109, 111, 112, 115, 116, 117, 118,
121, 122, 173, 178, 186, 187, 191, 203, 204,
205, 206, 207, 208, 217, 222, 224, 227, 234,
236, 237, 239, 243, 252, 253, 277, 279, 286,
290, 295, 296, 299, 305, 306, 307, 308, 317,
335, 350, 351, 352, 353, 361, 363, 370, 372,
374, 375, 376, 388, 390, 391, 395, 396, 397,
398, 399, 400, 402, 403, 404, 405, 411, 413,
424, 428, 435, 449, 451, 454, 456, 464, 467,
473, 479, 480, 480, 486, 487, 487, 488, 488,
494, 497, 513, 517, 517, 519, 553, 564, 565,
573, 574, 578, 579, 580, 581, 582, 605, 647,
648, 673, 674, 677, 719, 798, 798, 799, 803,
804, 805, 808, 815, 820, 829, 842, 843, 844,
845, 848, 855, 856, 857, 858, 859, 861, 863,
864, 870, 871, 872, 875, 876, 877, 881, 884,
885, 886, 889, 893, 898, 901, 902, 903, 913,
914, 917, 919, 922, 938, 939, 940, 944, 951,
952, 965, 966, 971, 972, 976, 977, 978, 979,
980, 982, 993, 996, 1005, 1052, 1056, 1068, 1071,
1076, 1077, 1079, 1080, 1081, 1082, 1083, 1085, 1086,
1099, 1100, 1106, 1116, 1117, 1118, 1119, 1120, 1122,
1130, 1130, 1132, 1133, 1189, 1197, 1197, 1202, 1202,
1203, 1203, 1212, 1212, 1213, 1213, 1227, 1228, 1231,
1234, 1235, 1239, 1243, 1283, 1294, 1295, 1296, 1297,
1298, 1300, 1302, 1303, 1315, 1346, 1349, 1358, 1360,
1363, 1364, 1365, 1366, 1367, 1387, 1395, 1396, 1404,
1406, 1408, 1409, 1410, 7117,

GILLNET

13, 14, 15, 70, 186, 197, 244, 284, 286,
651, 652, 1023, 1143, 1144, 1145, 1146, 1147, 1200,
1203, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217,
1219, 1320, 1321, 1353, 1401,

GOOSE ISLANDS

899,

GORDEN BAY

729, 730,

GRANITE BAY

187, 900,

GREAT CENTRAL LAKE

1160, 1170,

GRILSE

290,

GROUND FISH

21, 22, 24, 38, 38, 51, 80, 84, 111,
118, 139, 159, 160, 161, 162, 163, 164, 165,
166, 167, 168, 170, 171, 172, 199, 225, 226,
227, 234, 278, 279, 280, 293, 310, 311, 312,
332, 349, 350, 351, 352, 353, 363, 391, 394,
395, 397, 398, 399, 400, 401, 402, 402, 411,
414, 421, 422, 423, 434, 443, 479, 485, 487,
488, 560, 564, 778, 797, 798, 843, 844, 845,
858, 859, 866, 867, 868, 869, 872, 874, 876,
877, 880, 881, 914, 915, 935, 942, 943, 944,
945, 946, 947, 948, 949, 949, 950, 950, 953,
955, 962, 963, 964, 965, 966, 979, 1005, 1022,
1050, 1059, 1071, 1109, 1208, 1308, 1329, 1331, 1331,
1336, 1339, 1340, 1340, 1341, 1341, 1342, 1342, 1343,
1343, 1354, 1354, 1355, 1362, 1363, 1364, 1365, 1366,
1367, 1377, 1378, 1379, 1380, 1389, 1392, 1392, 1400,

GROWTH

20, 76, 332, 386, 388, 395, 413, 421, 424,
433, 434, 437, 463, 507, 569, 589, 645, 737,
774, 781, 782, 802, 843, 844, 867, 868, 872,
881, 883, 884, 898, 910, 973, 1012, 1015, 1047,
1349, 1353,

GULF ALASKA

218, 232, 240, 287,

GULF ISLANDS

109, 297, 363, 605, 633, 1203, 1246, 1336, 1406,

HAKE	1361,								
HALIBUT	32,	753,	1211,						
HAMMOND BAY	447,	1093,							
HAND LINING	115,	479,	488,	677,					
HARBOUR	42,	196,	458,	511,	657,	658,	690,	729,	730,
	732,	736,	786,	789,	796,	813,	824,	850,	853,
	941,	1006,	1009,	1025,	1027,	1031,	1267,	1398,	
HATCHERIES	16,	113,	241,	245,	246,	247,	248,	359,	839,
	1197,	1303,							
HECATE STRAIT	51,	111,	112,	118,	286,	296,	297,	361,	381,
	424,	487,	495,	514,	564,	842,	872,	965,	966,
	982,	1066,	1071,	1202,	1314,	1320,	1321,	1346,	1354,
	1372,	1374,	1375,	1376,	1377,				
HELIOZOA	94,	818,	1093,						
HENRY BAY	295,	366,							
HERRING	47,	54,	55,	56,	60,	78,	102,	114,	121,
	122,	123,	124,	125,	126,	127,	128,	129,	130,
	131,	132,	133,	134,	135,	136,	137,	140,	141,
	142,	143,	144,	145,	146,	147,	148,	149,	150,
	151,	152,	153,	154,	155,	156,	157,	158,	184,
	197,	198,	203,	251,	254,	255,	256,	257,	258,
	259,	260,	261,	262,	263,	264,	265,	266,	267,
	268,	269,	270,	271,	272,	273,	274,	275,	290,
	325,	326,	327,	354,	375,	385,	410,	442,	444,
	447,	464,	470,	471,	474,	482,	562,	588,	621,
	625,	626,	633,	693,	753,	754,	790,	791,	792,
	793,	799,	800,	801,	802,	803,	804,	805,	816,
	837,	838,	864,	865,	870,	883,	897,	912,	913,
	916,	917,	918,	919,	921,	956,	957,	958,	959,
	960,	961,	974,	981,	982,	1051,	1075,	1076,	1077,
	1079,	1112,	1113,	1114,	1116,	1117,	1118,	1119,	1120,
	1121,	1122,	1205,	1209,	1234,	1235,	1300,	1303,	1319,
	1346,	1372,	1373,	1374,	1375,	1376,	1383,	1384,	1391,
	1398,	1399,	1401,	1404,					

HERSCHELL ISLAND
1063,

HIPPA ISLAND
523,

HORSWELL POINT
620,

HOTHAM SOUND
909,

HOWE SOUND
30, 56, 108, 135, 224, 352, 353, 366, 465,
478, 480, 486, 514, 1066, 1389,

HUMBOLT BAY
420,

HYDROIDS
79, 565, 566, 568, 572, 584, 585, 586,

INDIAN ARM
30, 392, 406, 440, 441, 510, 765, 1019, 1019,
1045, 1045,

INLETS
53, 202, 204, 209, 210, 238, 316, 392, 429,
510, 617, 836, 878, 938, 939, 940, 954, 1263,
1267,

INTERTIDAL
123, 334, 336, 477, 663, 697, 698, 726, 747,
776, 812, 840, 1040, 1058,

ISOPODA
71, 1024,

JERVIS INLET
106, 252, 253,

JOHNSTONE STRAIT
2, 103, 104, 105, 106, 107, 109, 112, 187,
191, 252, 253, 337, 369, 829, 882, 900, 966,
1185, 1186, 1188, 1190, 1193, 1202, 1213, 1227, 1228,
1231, 1243, 1244, 1250, 1283, 1289, 1290, 1291, 1382,
1383, 1384, 1410,

JONES CREEK
640, 676, 896, 924, 1148, 1150, 1173,

JUAN DE FUCA STRAIT

112,	284,	285,	377,	446,	465,	466,	477,	651,
652,	660,	695,	832,	939,	996,	1010,	1023,	1034,
1039,	1056,	1057,	1200,	1201,	1202,	1213,	1229,	1337,
1395,	1396,	1410,						

JUVENILE

2,	23,	40,	203,	205,	206,	207,	208,	209,
210,	243,	251,	278,	290,	305,	306,	307,	308,
309,	313,	314,	346,	442,	464,	561,	589,	669,
760,	843,	862,	865,	870,	882,	883,	957,	964,
1085,	1107,	1205,	1238,	1247,	1248,	1303,	1382,	1383,
1384,	1398,	1409,						

KILLER WHALE

504,	643,	690,	729,	730,	732,	784,
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KIMADE CREEK

338,

KINGCOME INLET

252, 253,

KNIGHT INLET

252,	253,	436,	478,	1250,	1289,	1291,	1383,
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KOKANEE

304, 756,

KUPER ISLAND

782,

KYUQUOT SOUND

183,

LADYSMITH

108,	444,	891,	895,
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LADYSMITH HARBOUR

178,	228,	302,	335,	458,	459,	745,	850,	851,
853,	865,	893,	907,	909,	910,	911,	1027,	1104,

LAMPREYS

464, 740,

LANCELOT INLET

456,

LANGARA ISLAND

297,

LARVAE	87,	205,	206,	207,	208,	209,	210,	305,	306,
	307,	308,	375,	385,	397,	462,	506,	581,	622,
	630,	851,	853,	891,	1012,	1074,	1085,	1409,	
LENGTHS	13,	14,	15,	200,	201,	401,	403,	411,	930,
	947,	965,	1284,	1333,	1334,				
LIFE HISTORY	373,	378,	379,	526,	527,	528,	529,	530,	531,
	532,	533,	535,	536,	537,	538,	539,	540,	541,
	542,	543,	544,	545,	546,	547,	548,	549,	550,
	561,	595,	596,	597,	599,	600,	601,	602,	603,
	604,	618,	655,	659,	691,	698,	740,	744,	826,
	827,	828,	945,	1091,	1092,	1350,	1356,	1360,	1399,
LINE FISHERY	70,	74,	115,	116,	293,	349,	845,	875,	1143,
	1144,	1145,	1146,	1147,	1214,	1215,	1217,		
LINGCOD	199,	391,	411,	479,	488,	843,	844,	845,	866,
	867,	868,	869,	875,	1059,				
LOBSTER	75,	223,							
LONG LINE	218,	278,	479,	488,	1400,				
LOUVERS	760,	1247,							
MACKEREL	435,	857,							
MALASPINA INLET	456,								
MAMMALS	42,	185,	196,	453,	796,	830,	1086,		
MANAGEMENT	174,	665,	792,	1185,	1186,				
MASSET INLET	478,								
MATURITY	244,	424,	437,	457,	524,	894,	1353,		

MCCLINTON CREEK

288, 457,

MIDWATER TRAWL

41, 102, 202, 204, 206, 277, 1361, 1371, 1372,
1374, 1375, 1376;

MIGRATION

11, 37, 44, 45, 90, 177, 186, 187, 188,
189, 191, 229, 233, 318, 337, 340, 453, 523,
553, 573, 638, 658, 669, 679, 723, 793, 864,
869, 877, 880, 882, 995, 1114, 1123, 1279, 1283,
1315, 1326, 1349,

MILLBANK SOUND

899,

MIRACLE BEACH

815,

MOLLUSCA

17, 18, 212, 458, 461, 505, 721, 722, 743,
998, 1029, 1030, 1057, 1064, 1094, 1095, 1097, 1098,

MORTALITY

142, 230, 231, 294, 295, 391, 422, 463, 471,
716, 748, 854, 885, 917, 918,

MUDGE ISLAND

61, 62, 63, 64,

NANAIMO

6, 8, 11, 35, 44, 61, 62, 63, 64,
65, 94, 101, 175, 228, 294, 309, 335, 364,
378, 379, 393, 398, 399, 502, 523, 567, 571,
573, 583, 620, 663, 787, 788, 826, 862, 884,
1061, 1326, 1398,

NANOOSE BAY

61, 62, 64, 115, 116, 250, 279, 397, 400,
447, 474, 573, 621, 858, 859, 865, 875, 876,
916, 918, 941, 1401,

NASS RIVER

103, 104, 105, 106, 107, 244, 524, 526, 527,
528, 529, 530, 531, 532, 533, 535, 536, 537,
538, 539, 540, 541, 542, 543, 544, 545, 546,
547, 548, 549, 550, 595, 596, 597, 599, 600,
601, 602, 603, 604, 618, 778, 1109, 1192, 1257,

PARASITIC COPEPODS									
	82,	101,	211,	211,	215,	382,	415,	416,	418,
	419,	450,	466,	571,	758,	1084,			
PARKSVILLE									
	115,	116,							
PARRY BAY									
	620,								
PENDER HARBOUR									
	70,	474,	690,	729,	730,	732,	1078,	1267,	
PENDRELL SOUND									
	299,	302,	319,	335,	364,	745,	909,	1104,	
PHILLIPS ARM									
	252,	253,							
PHOLIDAE									
	466,								
PHORONIDAE									
	1037,								
PHYTOPLANKTON									
	86,	647,	648,	1033,	1035,	1082,	1083,		
PILCHARD									
	48,	1060,	1078,						
PINK									
	2,	16,	19,	40,	50,	76,	104,	105,	120,
	139,	177,	180,	186,	187,	191,	219,	220,	221,
	229,	232,	240,	252,	253,	276,	281,	282,	287,
	288,	291,	304,	330,	337,	345,	365,	383,	384,
	407,	408,	445,	457,	463,	485,	525,	552,	605,
	638,	672,	673,	679,	681,	682,	685,	691,	692,
	716,	741,	742,	755,	756,	778,	814,	817,	831,
	862,	882,	896,	900,	905,	923,	924,	925,	926,
	930,	995,	1023,	1070,	1090,	1091,	1101,	1123,	1152,
	1152,	1159,	1162,	1165,	1167,	1172,	1186,	1188,	1190,
	1193,	1199,	1200,	1210,	1216,	1229,	1231,	1239,	1243,
	1243,	1244,	1250,	1254,	1257,	1266,	1289,	1291,	1336,
	1374,	1375,	1376,	1382,	1383,	1384,	1388,		
PIPER'S LAGOON									
	61,	62,	63,						
PLANKTON									
	57,	63,	427,	428,	440,	441,	462,	510,	609,
	630,	654,	736,	806,	878,	1019,	1046,		

POLLUTION	57,	320,	321,	331,	823,	1032,	1130,	1131,	1191,
POLYCHAETA	6,	35,	61,	62,	63,	64,	89,	368,	378,
	379,	380,	381,	446,	493,	498,	499,	499,	500,
	501,	502,	502,	570,	615,	636,	734,	735,	813,
	986,	987,	990,	1007,	1036,	1061,	1062,	1063,	1327,
POPULATIONS	114,	195,	254,	325,	445,	447,	470,	471,	589,
	698,	755,	756,	791,	791,	800,	817,	831,	913,
	957,	958,	974,	1050,	1113,	1116,			
PORT MOODY	475,								
PORT RENFREW	477,	1058,							
PRAWN	110,	175,	515,	680,	991,				
PREDATION	246,	426,	1336,	1346,	1361,				
PRINCE RUPERT	111,	827,	903,	947,	971,	972,	976,	977,	978,
	979,								
PRODUCTION	112,	113,	135,	361,	406,	451,	688,	715,	718,
	746,	874,	923,	1085,	1099,	1100,	1209,	1238,	1248,
	1358,								
PRODUCTIVITY	30,	139,	193,	194,	236,	237,	238,	239,	315,
	334,	336,	341,	361,	391,	406,	451,	460,	688,
	708,	709,	710,	711,	712,	714,	715,	718,	726,
	727,	744,	759,	773,	782,	933,	936,	937,	938,
	939,	940,	970,	1085,	1099,	1100,	1107,	1111,	1245,
	1295,	1296,	1297,	1298,	1358,	1381,	1407,		
PROTOZOA	97,	663,	1124,	1127,					
PUGET SOUND	37,	112,	113,	247,	248,	288,	366,	368,	446,
	558,	560,	565,	568,	578,	586,	590,	593,	609,
	615,	619,	623,	624,	631,	645,	662,	666,	671,
	691,	723,	734,	770,	772,	783,	786,	789,	806,
	825,	837,	905,	986,	987,	994,	997,	1003,	1007,
	1008,	1024,	1056,	1292,	1293,	1302,	1324,	1330,	1333,

PUGET SOUND (CONT'D)
1334, 1349, 1361,

PULP MILLS
298, 320, 823, 1130, 1170, 1171,

PUNTLEDGE RIVER
1, 3, 760, 1132, 1135, 1163, 1169, 1176, 1180,
1180, 1181, 1237, 1249, 1388,

PYCNOGONIDA
560, 606,

QUALICUM
615, 616,

QUALICUM BAY
815,

QUATSINO
523,

QUATSINO SOUND
576, 829,

QUEEN CHARLOTTE IS.
20, 55, 56, 104, 105, 112, 121, 122, 124,
125, 126, 127, 129, 130, 131, 132, 133, 134,
135, 136, 137, 140, 141, 143, 144, 145, 147,
149, 150, 151, 152, 153, 156, 157, 386, 568,
808, 809, 847, 899, 902, 903, 913, 973, 1117,
1118, 1119, 1120, 1234, 1235, 1254, 1255, 1256, 1371,

QUEEN CHARLOTTE SD.
51, 111, 112, 118, 252, 253, 296, 361, 403,
487, 523, 808, 809, 829, 965, 966, 1329, 1331,
1371, 1372, 1374, 1375, 1376,

QUEEN CHARLOTTE ST.
44, 45, 109, 112, 478, 803, 805, 966, 1122,
1378,

REFUGE COVE
364,

RHIZOPODA
94, 818,

RIVERS INLET
103, 104, 105, 106, 107, 304, 524, 526, 527,
528, 529, 530, 531, 532, 533, 535, 536, 537,
538, 539, 540, 541, 542, 543, 544, 545, 546,
547, 548, 549, 550, 576, 578, 595, 596, 597,

RIVERS INLET (CONT'D)									
	599,	600,	601,	602,	603,	604,	618,	778,	796,
	1109,	1263,							
ROBERTS BANK									
	395,								
ROBERTSON CREEK									
	288,	338,	760,	1132,	1247,				
ROBSONS BITE									
	187,								
ROSEWALL CREEK									
	348,								
SAANICH ARM									
	865,								
SAANICH INLET									
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	763,	870,							
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	929,	1102,	1115,	1199,	3000,				
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	296,	297,	413,	808,	932,				

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	852,	922,							
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	277,	323,	324,	387,	388,	389,	478,	480,	486,
	512,	515,	515,	516,	680,	783,	975,	989,	991,
	1067,								
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	452,	480,	783,	1066,					
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535,	536,	537,	538,	539,	540,	541,	542,	543,
544,	545,	546,	547,	548,	549,	550,	596,	597,
599,	600,	601,	602,	603,	604,	618,	778,	796,
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599,	600,	601,	602,	603,	604,	618,	672,	673,
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85,	88,	91,	111,	119,	120,	125,	126,	127,
129,	130,	131,	132,	133,	134,	135,	136,	137,
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490,	496,	517,	518,	555,	566,	568,	571,	620,
663,	721,	722,	787,	788,	790,	791,	807,	815,
847,	847,	884,	898,	904,	917,	964,	970,	1004,
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SMITH G=TRANS. ROY. SOC. CAN., SER. 3, 22(5), 287-291, LIB+ 28=FOOD MATERIAL AS A FACTOR IN GROWTH RATE OF SOME PACIFIC CLAMS.+ SIDNEY STOMACH-CONTENTS SPECIES-LIST CLAM=EXAMINATION OF THE DIGESTIVE TRACT CONTENTS OF CLAMS, PAPHIA STAMINEA AND SAXIDOMUS GIGANTEUS, FROM TWENTY-SIX BEACHES IN THE SIDNEY VICINITY, FOUND CORRELATION BETWEEN FOOD SUPPLY AND RATE OF GROWTH.=	781 781 781 781 781 781
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SMITH RT=STATE OF WASH., DEPT. FISH. BIOL. REP. 36D. LIB+ 37= OBSERVATIONS ON THE SHRIMP FISHERY IN PUGET SOUND.+ SHRIMP-TRAWL=BASED ON FIELD OBSERVATIONS OF PUGET SOUND SHRIMP FISHERY. COVERS SUCH TOPIC AS BIOLOGY OF SHRIMP, THE FISHERY, PRESENT STATE OF FISHERY, EFFECTS ON OTHER ORGANISMS, REGULATION OF SHRIMP FISHERY.=	783 783 783 783 783
SPONG P=VANCOUVER PUBLIC AQUARIUM NEWSL. 12(3) LIB+ 68=PROSPECTS FOR KILLER WHALE RESEARCH.+ KILLER-WHALE=NA=	784 784

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STAFFORD J=PROV. OF B.C. DEPT. FISH. REP., 1913, 79-102 LIB+ 14=THE NATIVE OYSTER OF BRITISH COLUMBIA (OSTREA LURIDA CARPENTER).+ VANCOUVER= INCLUDES INFORMATION ON EMBRYOLOGY, SPAWNING, SPATTING, METHODS OF RESEARCH, SWARMING, RATE OF GROWTH, TEMPERATURE AND SALINITY. PHOTOS.=	785 785 785 785
STEGGERDA M ESSEX HE=PUBL. PUGET SD. BIOL. STATION 5-29-31, LIB+ 25=ROCK BOTTOM FAUNA OF A RESTRICTED AREA NEAR FRIDAY HARBOUR, WASHINGTON.+ DREDGING SPECIES-LIST FRIDAY-HARBOUR=INTENSIVE SURVEYBOF FAUNA OF A RESTRICTED AREA OF SAN JUAN CHANNEL OF PUGET SOUND.=	786 786 786 786
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STEVENSON JC LANIGAN JA=PROV. OF B.C. DEPT. FISH. REP. 1949, 41-80 LIB+ 50=RESULTS OF THE WEST COAST OF VANCOUVER ISLAND HERRING INVESTIGATION, 1949-50.+ WEST-COAST TAGGING TAG-RECOVERIES=DISCUSSES THE 1949-50 FISHERY, TAGGING AND TAG-RECOVERY, SAMPLING OF CATCHES AND SPAWNING RUNS EXTENT AND INTENSITY OF SPAWNING. COMPARATIVE STUDY OF TWO POPULATIONS.=	790 790 790 790 790
STEVENSON JC OUTRAM DN=PROV. OF B.C. DEPT. FISH. REP., 1952, 57-84 LIB+ 53=RESULTS OF INVESTIGATION OF THE HERRING POPULATIONS ON THE WEST COAST AND LOWER EAST COAST OF VANCOUVER ISLAND IN, 1952-1953, WITH AN ANALYSIS OF FLUCTUATIONS IN POPULATION ABUNDANCE SINCE 1946-1947.+ WEST-COAST TAGGING TAG-RECOVERIES=DISCUSSES 1952-53 FISHERY TAGGING AND TAG-RECOVERY, SAMPLING OF WINTER RUNS AND SPAWNING STOCKS, EXTENT AND INTENSITY OF SPAWNING, POPULATION ABUNDANCE IN 1952-53, CATCH, SPAWN, AND ABUNDANCE. COMPARATIVE STUDY OF THE TWO POPULATIONS.=	791 791 791 791 791 791 791 791
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STUTZ SS=THESIS, UNIV. OF BRITISH COLUMBIA LIB+ 66=MOULT AND PELAGE PATTERNS IN THE PACIFIC HARBOUR SEAL PHOCA VITULINA.+ SKEENA-RIVER ECSTALL-RIVERS RIVERS-INLET=DESCRIBES MOULT PROGRESSION, PELAGE PATTERNS AND COLORS IN PHOCA VITULINA. BIOLOGICAL INFORMATION NEEDED FOR MANAGEMENT OF THE RESOURCES.=	796 796 796 796 796
SUNDE LA LINDSEY CC=UNIV. B.C., INST. OF FISH. MUS. CONTR. 1-1-6 LIB+ 58=REVISED KEY TO THE ROCK FISHES (SCORPAENIDAE) OF BRITISH COLUMBIA. + SPECIES-KEY GROUND FISH=KEY TO 25 SPECIES OF B.C. ROCKFISH IS PRESENTED .=	797 797 797 797
TAYLOR FHC=THESIS, UNIV. OF BRITISH COLUMBIA LIB+ 47=A STUDY OF THE PRINCIPAL SPAWNING GROUNDS AND OF THE SPAWNING OF THE LEMON SOLE, PAROPHRYS VETULUS.(GIRARD) IN THE GULF OF GEORGIA IN RELATION TO THE COMMERCIAL FISHERY.+ OTTER-TRAWL BAYNES-SOUND BOAT-HARBOUR TAGGING GEORGIA-STRAIT STOMACH-CONTENTS TAG-RECOVERIES GROUND FISH=STUDY OF LEMON SOLE SPAWNING GROUNDS IN BAYNES SOUND AND BOAT HARBOUR IN 1946 GIVES LIFE HISTORY STUDIES OF TRAWL CAUGHT FISH. SURVEY INFORMATION ON A NUMBER OF PROBLEMS ARE STATED BRIEFLY.=	798 798 798 798 798 798 798 798
TAYLOR FHC=WESTERN FISH. 47(5), 12-13, LIB+ 54=A SUMMARY OF HERRING RESEARCH IN THE 1952-53 SEASON.+ WEST-COAST GEORGIA-STRAIT=OUTLINES THE 1952-53 SEASON OF HERRING RESEARCH.=	799 799 799
TAYLOR FHC=RAPPORTS ET PROCES-VERBAUX, CONSEIL PERMANENT INTERNATIONAL POUR L'EXPLORATION DE LA MER, 154-279-292 GSM+ 63=THE STOCK-RECRUITMENT RELATIONSHIP IN BRITISH COLUMBIA HERRING POPULATIONS.=INCLUDES ESTIMATES OF SPAWN DEPOSITION, YEAR-CLASS STRENGTH, APPROACHES TO EXAMINING RELATIONSHIP BETWEEN SPAWN DEPOSITION AND SIZE OF RESULTING YEAR-CLASS.=	800 800 800 800 800
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TESTER AL=PROV. OF B.C. DEPT. FISH. REP., 1943, 53-74 LIB+ 44=TAGGING OF HERRING (CLUPEA PALLASII) IN BRITISH COLUMBIA, INSERTIONS AND RECOVERIES DURING 1943-44.+ TAGGING TAG-RECOVERIES WEST-COAST GEORGIA-STRAIT	803 803 803
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TESTER AL=PROV. OF B.C. DEPT. FISH. REP., 1944, 45-63 LIB+ 45=TAGGING OF HERRING (CLUPEA PALLASII) IN BRITISH COLUMBIA, INSERTIONS AND RECOVERIES DURING 1944-45.+ GEORGIA-STRAIT WEST-COAST TAGGING TAG-RECOVERIES=	804 804 804
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THOMPSON TG PHIFER LD=UNIV. WASH. PUBL. OCEANOGR. 1-111-134, LIB+ 36= THE PLANKTON AND PROPERTIES OF THE SURFACE WATERS OF THE PUGET SOUND REGION.+ PUGET-SOUND=NA=	806 806 806
THOMPSON WF=PROV. OF B.C. DEPT. FISH. REP., 1921, 37-56 LIB+ 13=REPORT ON THE CLAM BEDS OF BRITISH COLUMBIA.+ BOUNDARY-BAY BURRARD-INLET FRASER-SAND-HEADS SPECIES-LIST=REPORT INCLUDES TOPICS ON DISTRIBUTION OF BEDS, SPECIES OF CLAMS FOUND, ENEMIES OF CLAMS, METHODS OF UTILIZATION AND REGULATION OF CLAM-SUPPLY, RECOMMENDATIONS FOR CONTROL OF CLAM-BEDS, RELATION OF CLAMS TO OYSTER-CULTURE, CLAM-BEDS OF BOUNDARY BAY FRASER SAND-HEADS, BURRARD INLET, EASTERN SIDE OF VANCOUVER ISLAND ISLAND SOUTH-EAST OF VANCOUVER ISLAND. PHOTOS.=	807 807 807 807 807 807 807 807 807
THOMPSON WF=PROV. OF B.C. DEPT. FISH. REP., 1913, 103-125 LIB+ 14=REPORT ON THE SHELL-FISH BEDS OF BRITISH COLUMBIA (CLAMS, MUSSELS, AND SCALLOPS).+ SPECIES-LIST QUEEN-CHARLOTTE-IS. QUEEN-CHARLOTTE-SD. GEORGIA-STRAIT BAYNES-SOUND=REPORT INCLUDES TOPICS ON DISTRIBUTION OF BEDS, SPECIES OF SHELLFISH, ENEMIES, UTILIZATION AND REGULATION OF BEDS, CLAM-BEDS OF QUEEN CHARLOTTE ISLANDS, CHANNELS BETWEEN QUEEN CHARLOTTE SOUND, GEORGIA STRAIT AND BAYNES SOUND.=	808 808 808 808 808 808 808
THOMPSON WF=PROV. OF B.C. DEPT. FISH. REP., 1913, 126-130 LIB+ 14=REPORT ON THE ABALONE OF BRITISH COLUMBIA.+ QUEEN-CHARLOTTE-IS. QUEEN-CHARLOTTE-SD.=REPORT INCLUDES TOPICS ON DESCRIPTION, HABITS, DISTRIBUTION AND ABUNDANCE, UTILIZATION, METHODS OF CATCHING AND UTILIZATION, ENEMIES, EXAMINATION OF BEDS, AND PROBLEMS CONCERNING SPECIES. PHOTOS.=	809 809 809 809 809
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TOLLEFSON R AND ASSOCIATES=TYPED REPORT. PREPARED FOR NORTHWEST PULP AND PAPER ASSOCIATION 182P LIB+ 59=A SUMMARY OF FISHERY STATISTICS OF THE PACIFIC COAST.=NA=	811 811 811
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WICKETT WP=SYMPOSIUM ON PINK SALMON. H.R. MACMILLAN LECTURES, UNIV. BRITISH COLUMBIA, VANCOUVER, B.C. EDITOR MJ WILIMOVSKY 73-86P LIB+ 62= ENVIRONMENTAL VARIABILITY AND REPRODUCTION POTENTIALS OF PINK SALMON POPULATIONS IN BRITISH COLUMBIA.=INCLUDES INFORMATION ON EFFECT OF WATER VELOCITY ON SURVIVAL OF EGGS, PERMEABILITY ON WATER FLOW IN NATURAL GRAVELS, FLOODS ON PERMEABILITY AND RELATION OF PERMEABILITY TO OPTIMUM SPAWNING DENSITY.=	831 831 831 831 831 831 831
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YOUNG EL=CAN. J. RES., C. 16-115-117 LIB+ 38=LABRINTHULA ON PACIFIC COAST EEL GRASS.+ DEPARTURE-BAY=LABYRINTHULAN PARASITE CAUSING THE DISEASE OF ATLANTIC COAST ZOSTERA MARINA IS REPORTED ON Z. MARINA FROM DEPARTURE BAY. GROSS AND HISTOLOGICAL APPEARANCE OF INFECTED EEL GRASS IS DESCRIBED. PARASITES FOUND TO BE IDENTICAL.=	841 841 841 841 841
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ELSEY CR=BIOL. BOARD CAN. PAC. PROGR. REP. 22-19-20 LIB+ 34=DISTRIBUTION OF OYSTER LARVAE.+ LADYSMITH-HARBOUR=DATA INDICATES LARVAE WHICH ARE FREE SWIMMING FOR A FOUR WEEK PERIOD, SWIM OR ARE CARRIED CONSIDERABLE DISTANCES. TENDENCY IS TO BECOME CONCENTRATED ABOVE THE SPAWNING BED, I.E., TO MOVE SHOREWARD RATHER THAN SEAWARD. MOVEMENTS FOLLOW MOST RAPID CURRENTS, FINAL PLACE OF ATTACHMENT HAS NO DEFINITE RELATION TO PLACE OF ORIGIN.=	851 851 851 851 851 851 851
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GUBERLET JE HATCH MH=UNPUBL. MS, DEPT. ZOOL., UNIV. WASHINGTON AUT+ 00= THE DISTRIBUTION OF BOTTOM ANIMALS IN PUGET SOUND AND ADJACENT WATERS (1931-1941).+ PUGET-SOUND=NA=	1003 1003 1003
HARVEY WH=J. PROC. LINN. SOC. 6-157-176 AUT+ 62=NOTICE OF A COLLECTION OF MARINE ALGAE MADE ON THE NORTHWEST COAST OF NORTH AMERICA, CHIEFLY AT VANCOUVER'S ISLAND BY DAVID LYALL, ESQ., MD, RN, IN THE YEARS 1859-1861. =NA=	1004 1004 1004 1004
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