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The Northern Fur Seal (*Callorhinus ursinus*): A Bibliography

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The Northern Fur Seal (*Callorhinus ursinus*): A Bibliography¹

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PREFACE

The publication of this bibliography occurs 20 years after the 200th anniversary (1986) of the discovery of the northern fur seal's breeding colonies on the Pribilof Islands in Alaska's eastern Bering Sea. This volume is a tribute to both scientist and seal in documenting technical information produced since this discovery. Besides scientists, there are others with a history of close association with the seals. Prominent among these are the Aleut people so intimately involved in harvesting fur seals for both commerce and subsistence. Others were important in the recorded history of fur seals by virtue of their interest in the fur industry. Primary among these are representatives of the U.S.S.R/ Russia and the United States, the primary nations involved in commercial harvests of fur seal pelts, followed closely by representatives from England, Canada, and Japan. The roles played by environmentalists, managers and politicians of these countries have been of considerable consequence. However, this bibliography is focused more on the interests of scientists; the history of others is documented and available elsewhere.

The northern fur seal is closely tied to the history and culture of the Pribilof Islands primarily as a valuable commercial resource early in their recorded history. Recently, however, major changes have occurred. As the United States' scientific representative to the North Pacific Fur Seal Commission during its last six years (1980 -1985), I was witness to many changes, one being of particular note. The last commercial harvest in the United States of young male fur seals for their pelts occurred in 1984, marking a transition for the fur seal from a species of great commercial value to one treated more like other species of marine mammals. In many ways this change marked the end of an era. The impetus for change involved scientific, political, social, and economic dimensions. Because of its complexity and recent nature, many of the changes seen during this transition remain to be documented. Now the population of northern fur seals is declining and serves as another reminder of the human role in the Earth's ecosystems. It is at this milestone in man's interaction with the northern fur seal and its environment that this bibliography is being made available. Those of us associated with its production hope it will serve as a guide to information which can be used to stimulate research on marine mammals and their ecosystems, particularly those of the northern fur seal.

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INTRODUCTION

The principal breeding grounds of the northern fur seal (*Callorhinus ursinus*) occur on the Pribilof Islands in the eastern Bering Sea. These islands were discovered in 1786 by the crew of the *St. George*, a Russian ship under the command of Gerasim Gavrilovich Pribilof. Breeding colonies occur in various other locations in the Pacific Ocean and Bering Sea; among the newest is a rapidly growing rookery on Bogoslof Island (first colonized about 1980; see reference 1123) just north of the Aleutian island chain. The first fur seal to be seen by a European was sighted in 1741 (by Georg Wilhelm Steller, Aug. 10, south of Kodiak Island; reference 1579). Since that time, especially in this century, the northern fur seal (sometimes called the Alaska fur seal) has been the subject of both intensive and extensive biological studies, more so than most other wild living large mammals. At the same time, these animals have helped promote a growing awareness of marine mammal issues by the general public. Fur seals have been the focus of wildlife conservation through public concern, as an economic resource, and as an indicator of the health of the ecosystems in which it occurs. As a result, there is a large volume of formal and informal literature on fur seals – from scientific investigations to more popularized accounts of the fur seal's extraordinary life history. The importance of the resulting scientific information is emphasized by a population that has been declining for the past two decades – a change with implications regarding past and present anthropogenic activities.

A comprehensive bibliography on the northern fur seal would encompass not only the scientific and technical literature but also the numerous popular articles on fur seal biology. These would include accounts of fur seal industry and economics, discussions on the social effects of the harvest on local residents, the history of both the U.S. and Russian fur seal islands, fictionalized stories about fur seals, and biographies of the numerous figures in the history of man's involvement with fur seals. The scale of such a project was beyond our means and we confined our efforts to material we judged to be of value primarily to scientists.

Thus, our objective in assembling this bibliography is to provide a listing of publications that will facilitate access to the scientific and technical literature regarding northern fur seals. It is intended for technical users, especially scientists and managers, but includes materials which might be of use to individuals with other specialized interests. The wealth of information in this bibliography includes the fields of wildlife research, conservation, management, and resource utilization, as well as the more generalized topic of the history of science. Through the

publication of this bibliography we want to promote awareness of the research accomplished on this species as a source of valuable biological information.

FUR SEAL STUDIES

Fur seal research boasts a long history, covering a period from the late eighteenth century to the present. Our earliest citation dates to 1751. As would be expected, the volume and rate at which information on fur seals is produced increases over time. Most of the research and many of the publications in this bibliography pertain to work conducted in the last 75 years.

Fur seal research has involved hundreds of people. Some of the scientists and their assistants are mentioned by Scheffer et al. (1984, reference number 1579) in an excellent account of the history of fur seal research. The Scheffer account itself provides many valuable references, emphasizing the roles of these specialists, as does the paper by Roppel (1984, reference number 1516) which also includes a review of the more recent historical information in a management context.

Funding is an important factor in research as are time and people. The intensive research conducted on northern fur seals involve budgets that could only have been sustained for a species of high commercial value. To put this into perspective, it is to be noted that profits from the early U.S. harvests of pelts would have more than covered the original purchase of the state of Alaska.

FUR SEAL LITERATURE

To help put this bibliography in proper context, it is useful to know about the general categories of fur seal literature. Of prime importance in our objectives, of course, is the collection of papers that appear in scientifically reviewed journals. Beyond these, however, is a large collection of other kinds of literature.

First, the reader should note several groups of literature that have developed in the context of international cooperation. Between 1957 and 1985, proceedings were published from the annual meetings organized under the terms of the Interim Convention for the Conservation of the North Pacific Fur Seal, an international agreement involving Canada, Japan, the U.S.S.R. and the United States. Each year the Standing Scientific Committee of the North Pacific Fur Seal Commission (the working body established by the Convention) met to consider research and

field studies conducted by the scientists from all four member nations. The results of these studies were briefly summarized in the proceedings and occasionally contained information not published elsewhere.

Much more detail is available in a series of publications titled "North Pacific Fur Seal Commission Report on Investigations" each covering a series of years agreed upon by the four nations which served on the Commission. At the end of each series of 4 years, the Convention was re-examined for modification and consideration for extension, producing the need for a summary of the results of research conducted by the scientists from each nation. Consequently, the scientists participating in the Standing Scientific Committee were asked to produce a detailed account, combining the research conducted by all four nations under one cover. These publications are a valuable source of data tabulated in relatively uniform style covering the years 1958 to 1980.

Each of the four member nations also produced individual annual scientific reports. These reports are not necessarily continuous for all four nations; however, they contain a great deal of detailed information. Some, but not all, of this information can be found in the "North Pacific Fur Seal Commission Report on Investigations" mentioned above. For example, annual reports were prepared on studies conducted by the United States starting in 1940 (e.g., see reference numbers 1-7, 1015-1020, 1208-1213, 1215-1220, 1502, 1504, 1507, 1536, 1537, 1540, 1541, 1572, 1573, 1598, 1601, 1602, 1604, 1607, 1608, and 1610). This series is continuous since 1957 and documents most of the details regarding research and monitoring conducted by the United States. However, these reports have varied in several respects. For a number of years, U.S. reports on pelagic research (e.g., reference numbers 612, 613, 616-618, 1333, 1334, 1861) are separate from reports on research conducted on the breeding islands. Several reports from U.S. research were published while studies were being conducted under the auspices of the U.S. Fish and Wildlife Service, others from research by the National Marine Fisheries Service (NMFS). Some annual reports published by the NMFS fall in the category of Processed Reports (reports in this form are not subject to extensive peer review and are considered provisional). Most recently and currently they are published in NOAA's Technical Memorandum series.

There is extensive "gray" literature on northern fur seals. This literature includes background papers produced by scientists from the four member nations. In deciding what to include in this bibliography, we exercised judgment regarding which background papers to include, based mostly on whether or not the material was subsequently published and whether or not the material was administrative in nature. We encountered many citations in the published literature for which we could not verify the existence of an actual publication, often published in

languages other than English. Papers whose existence we could not verify were not included in this printed northern fur seal bibliography.

The northern fur seal has been the subject of many government documents owing to its historic economic value and frequent source of controversy. Over the years, legislation and numerous hearings concerning fur seals have resulted in a great volume of records and reports produced by various branches of the governments of several nations. The reader should be aware that there is a large volume of literature available in government documents (not all included in this bibliography) concerning the legal, political, and social aspects of northern fur seals and the sealing industry. Such documents reside in various collections maintained by all four member nations.

For the individual interested in general information about northern fur seal biology and natural history, there are several publications that provide such accounts. One such article is a chapter by Fiscus (1978; citation number 607) which occurs in a book on marine mammals edited by Delphine Haley. Another general account occurs in a book published in 1982 by the Alaska Geographic Society titled "Islands of the Seals. The Pribilofs." (not cited in this bibliography.) Further such accounts are listed in the Index in the section labeled "General Information Articles."

Information concerning fur trade was emphasized in a magazine with varying titles, but generally called "Fur Trade Review," the first issue of which was published in 1887. It contains information and reports on the economics of fur trade, the volume of pelts sold, and the commerce surrounding their sale. Information concerning these sales and the numbers of pelts harvested and sold each year has occasionally been useful in determining the number of seals harvested and the impact of their removal on the fur seal population.

Another collection of reports has resulted from environmental impact studies. Recently, several environmental impact statements have been produced by the NMFS as required for decisions involving terms of the Interim Convention and current status designations under terms of the Marine Mammal Protection Act of 1972. These documents contain general summaries and overviews of fur seal biology and the status of their populations. Similar impact analyses are required in the United States for the exploration and production of petroleum in the eastern Bering Sea. These reports have been produced primarily by the U.S. Department of the Interior.

The literature cited sections of technical and published papers are pathways into other areas of information for the user of this bibliography. Beyond these, there are additional sources of bibliographic information that should help lead the reader to the general information base on fur seals as well as to related information. Of particular interest are comprehensive bibliographies which have been published in the past: The Ronald et al. bibliography of 1976

(reference number 1514); the bibliographies of the historical papers by Roppel (reference number 1516) and Scheffer et al. (1984; reference 1579) are very valuable; the work of Osgood et al. (1915; reference number 1401) may also be very useful; and there is the literature cited by Austin and Wilke (1950; reference 147), which deals with Japanese fur sealing and contains many good references to Japanese research efforts. For further sources of literature consult the works listed in the Index under "Bibliographies."

BIBLIOGRAPHY PRODUCTION

The production of this bibliography involved many decisions concerning which materials to include. We tended to avoid including articles from newspapers and popular magazines but wanted to include papers and articles published in the technical and scientific journals. We also tended to avoid articles in trade journals concerning the fur trade and its related economic issues. However, there were many publications that did not clearly fit into such categories. Those we have listed, were, in our judgment, of value to those involved in biological/ecological studies, especially of fur seals.

As mentioned earlier, of the thousands of citations we dealt with during this project, only those which we could positively verify were included. Every attempt was made to provide as much information as possible to aid in locating the harder-to-find publications that have been listed in this bibliography.

Non-English publications provided a unique challenge. Both transliterated and English titles are provided whenever possible. For example, Japanese publications are referenced by transliterated title in some libraries and English titles in others. In these cases we have provided both the transliterated and English journal titles. Russian publications are primarily available through the proceedings of the All Union Institute for Research in Fisheries and Oceanography (VNIRO) or the Pacific Ocean Institute for Research in Fisheries and Oceanography (TINRO). In several cases, journals of these two research institutes were published simultaneously.

This bibliography cannot be considered comprehensive with regard to foreign literature. Yet, every effort was made to include a collection of articles by the most prominently recognized specialists. Several of our international colleagues were consulted in this process.

Many government documents that are administrative in nature have been excluded from this bibliography. However, there is an occasional U.S. publication which contains sufficient technical or historical information, in our opinion, to be included.

During the collection of the references in this bibliography a much more comprehensive bibliography was established as a computerized bibliographic database. Almost twice as large as this published version, there are references in this database which are of potential use to the person seriously interested in the detail of topics indirectly related to fur seal biology or concerning papers that may make indirect references to northern fur seals. Among these papers are those which we rejected because of their focus on other species or subject matter, making only indirect reference to northern fur seals by way of citation or inclusion of information published in greater detail elsewhere. An electronic version (in Procite¹ format) of the more comprehensive listing of bibliographic material is available at:
<http://nmml/afsc.noaa.gov/AlaskaEcosystems/nfshome/fursealbib.htm>

HOW TO USE THIS BIBLIOGRAPHY

The references in this bibliography are listed in alphabetical order, each accompanied by a reference number. These numbers are used to produce the cross-reference index tables found following the main body of the listing. Listed by subject matter, the Index provides annotation for each reference. Thus, an individual reference is likely to be listed under several subject headings. A person interested in the physiology of fur seals would consult the table in the Index to obtain the reference numbers of those publications included in the bibliography that deal with physiology. The Index is not intended to be exhaustive but includes those references which directly treat the topics listed. A user who has become familiar with the areas of interest and names of the various specialists who have published will also be able to use these names to find papers covering topics of interest. Of course, the titles of individual papers also indicate their subject matter.

In the more extensive on-line version of the bibliography mentioned above, there are a variety of key words that allow the user to search for literature on a particular topic.

Users of this bibliography are encouraged to contact the National Marine Mammal Laboratory concerning suggested changes or additions to the bibliography as we attempt to keep the computerized bibliography up-to-date. As new areas of research become important, new subject title headings will be included in the Index. The authors would appreciate learning of errors or omissions that readers may discover in this bibliography. In particular, the subject

¹Reference to trade names does not imply endorsement by the National Marine Fisheries Service, NOAA.

coding system, designed for the bibliography, might be improved substantially on the basis of actual use.

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11 12 13 15 16 61 88 98 131 133 142 144 147
153 188 193 202 206 219 226 252 256 346 349 351 369
423 434 442 444 465 469 481 530 548 555 588 591 595
603 604 605 610 611 619 656 676 679 703 704 727 739
764 767 774 775 798 809 810 811 812 816 886 891 919
971 985 986 1050 1051 1064 1069 1071 1074 1078 1099 1102 1113
1123 1124 1230 1245 1280 1283 1296 1305 1311 1340 1342 1376 1379
1403 1406 1407 1412 1415 1436 1447 1448 1458 1485 1494 1495 1505
1513 1523 1562 1575 1668 1669 1696 1713 1717 1733 1782 1798 1799
1810 1819 1824 1834 1838 1841 1845 1850 1937

Diving (depth, duration, physiology)

42 174 503 709 745 777 794 796 896 906 1008 1010 1012
1468 1539 1651

Ecology, Oceanography, Ecosystem, Ecological Effects, Photoperiod

367 480 535 633 706 900 1122 1489 1647 1770 1775

Ecosystem Stability

710 720 962 1198 1529 1812 1818

Endocrine Cycles (life history cycles)

27 373 377 386 506 516 517 519 520 521 954 1567 1921

Endocrine Organs, Hormones

27 253 507 517 519 520 569 751 752 954 981 1005 1377
1435 1657 1806 1807 1808

Entanglement

602 626 629 630 633 643 646 648 649 654 741 819 975
976 1509 1510 1511 1512 1672 1703

Enzymes

44 569 714 757 1232 1402 1422 1695 1707 1708 1709 1710

Food Habits (prey species, location, abundance; feeding behavior)

99 104 108 147 173 191 192 232 245 246 247 262 267
268 368 369 370 378 399 419 420 449 475 476 480 495
496 560 596 598 603 608 609 614 625 675 687 708 709
739 748 756 758 759 767 777 841 846 868 870 871 883
887 892 929 972 978 1000 1044 1045 1046 1047 1068 1082 1099
1102 1113 1115 1123 1124 1132 1133 1138 1139 1146 1148 1149 1153
1163 1190 1233 1241 1248 1250 1266 1268 1270 1282 1315 1327 1375
1408 1409 1410 1411 1412 1413 1414 1416 1426 1427 1428 1429 1430
1431 1432 1433 1434 1436 1472 1505 1513 1529 1539 1546 1547 1575
1576 1581 1582 1583 1585 1596 1611 1612 1650 1653 1655 1656 1666
1690 1716 1717 1823 1838 1839 1840 1844 1850 1858 1859 1860 1868
1875 1876 1877 1878 1879 1880

Function (general)

359 507 584 585 586 668 714 798 1075 1076 1155 1300 1301
1425

Fur Seal Commission Reports and Background Papers

134	229	230	231	233	235	246	413	414	611	624	681	707
778	800	801	802	803	804	805	806	837	868	884	890	891
943	945	1014	1091	1094	1098	1242	1344	1345	1346	1347	1348	1349
1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362
1363	1364	1365	1366	1367	1368	1369	1370	1371	1426	1429	1430	1431
1528	1740	1741	1882	1883	1884	1902	1918					

Fur Seal Investigations (Canada, Japan, U.S.A., U.S.S.R.)

3	4	5	6	7	8	75	77	78	80	81	96	97
100	101	102	103	105	106	107	109	117	120	122	123	126
127	129	130	132	135	136	152	171	177	178	221	222	223
241	242	243	244	350	366	402	532	533	534	537	538	539
542	604	612	613	615	616	617	618	634	635	636	637	638
639	640	641	642	644	645	647	649	674	676	683	684	685
686	694	697	705	742	778	779	780	781	782	787	800	801
802	803	804	805	806	873	874	875	876	877	878	879	880
881	883	885	886	888	889	930	931	932	933	934	935	936
937	938	939	940	941	942	946	949	976	1015	1016	1017	1019
1020	1021	1022	1023	1024	1025	1095	1096	1101	1126	1127	1129	1131
1142	1143	1145	1181	1182	1208	1209	1210	1211	1212	1213	1215	1216
1217	1218	1219	1220	1221	1252	1253	1254	1255	1256	1257	1258	1259
1260	1265	1314	1333	1334	1352	1357	1361	1366	1428	1453	1455	1456
1457	1459	1460	1461	1462	1463	1464	1465	1466	1486	1487	1488	1501
1502	1503	1504	1506	1507	1508	1509	1510	1511	1512	1518	1519	1520
1521	1536	1537	1540	1541	1569	1572	1573	1589	1597	1598	1599	1600
1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1659	1661	1672
1678	1679	1721	1722	1738	1739	1740	1741	1743	1744	1745	1746	1747
1748	1749	1750	1751	1752	1813	1817	1828	1831	1833	1836	1851	1852
1857	1861	1886	1890	1891	1893	1894	1897	1898	1899	1900	1905	1906
1907	1908	1909	1910	1911	1912	1917	1918	1919	1930	1931	1932	1933
1934	1935	1936										

General Information Articles

22	24	29	30	31	32	33	35	42	45	46	47	48
49	50	51	53	54	55	56	57	58	59	60	62	63
64	66	67	69	72	74	79	82	83	85	86	87	90
91	92	116	140	158	184	185	186	187	197	206	220	227
228	270	318	328	352	397	401	420	484	488	489	490	502
512	523	525	565	572	573	574	575	592	594	595	606	607
621	671	677	679	701	703	713	724	735	736	737	740	744

749	761	762	764	793	848	853	854	917	918	957	958	1013
1090	1157	1163	1188	1201	1202	1206	1231	1235	1249	1320	1341	1379
1398	1399	1400	1406	1421	1448	1458	1474	1475	1476	1531	1532	1535
1539	1552	1554	1561	1594	1704	1742	1757	1854				

Genetics, DNA Fingerprinting

980	1068	1081	1307	1485	1526	1871						
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Government Documents, Legislation, Congressional Papers

23	68	76	92	189	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	292	293	294
295	296	297	298	299	300	301	302	303	304	305	306	307
308	309	310	311	312	313	314	315	316	317	319	320	321
322	323	324	325	326	327	329	330	331	332	333	334	335
336	337	338	339	340	341	342	349	398	399	452	453	454
455	456	457	458	459	460	461	462	463	482	485	486	498
499	500	570	571	572	573	576	577	579	580	591	593	599
620	713	729	731	732	733	749	753	820	821	822	823	824
825	826	827	828	829	830	831	832	833	834	836	846	849
850	851	852	854	1107	1109	1110	1111	1112	1150	1151	1152	1153
1154	1155	1156	1158	1222	1224	1225	1226	1227	1235	1244	1262	1263
1283	1293	1399	1401	1475	1538	1541	1595	1633	1666	1668	1670	1671
1680	1713	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732	1753
1781	1782	1783	1784	1785	1786	1787	1788	1789	1793	1794	1795	

Habitat Preference (incl. geographical requirements)

13	465	817	985	989	991	995	1064	1074	1204	1270	1408	1415
1467	1682	1809	1810	1811	1815	1819	1820	1824	1834			

Harvest Statistics

17	26	64	82	121	159	269	274	276	278	280	282	285
286	288	290	293	295	297	298	300	302	304	306	308	310
312	314	316	319	321	323	326	327	330	333	334	336	339
340	342	357	363	375	383	398	401	410	413	414	415	421
433	439	447	472	478	482	485	498	499	500	524	560	566
568	583	601	657	660	678	728	755	761	817	884	899	916
957	991	992	997	1070	1086	1088	1093	1097	1099	1102	1108	1109
1110	1111	1112	1115	1196	1224	1225	1226	1227	1312	1398	1403	1449
1498	1517	1531	1542	1571	1587	1592	1595	1666	1667	1670	1697	1723
1724	1725	1726	1727	1728	1729	1730	1731	1732	1754	1755	1794	1795
1848	1849	1850	1855	1901	1922	1923	1925	1928				

Hematology and Heart Rates

666 668 796 1076 1651 1867

Histology

27 218 348 353 354 355 404 506 564 569 667 726 758

896 955 1030 1031 1388 1391 1567 1662 1664 1715 1920 1921

Historical Accounts (historical abundance, research methods)

16 17 20 21 22 24 26 45 52 79 147 159 183

188 189 197 202 263 270 352 357 360 399 448 481 483

484 487 488 489 491 502 512 525 550 565 572 573 576

579 582 588 592 593 596 599 601 621 656 671 713 721

725 728 740 755 761 793 849 853 957 971 997 1108 1115

1158 1223 1249 1378 1390 1403 1405 1418 1449 1478 1498 1499 1516

1517 1531 1532 1578 1595 1667 1668 1670 1671 1697 1704 1742 1754

1755 1798 1799 1870 1896 1923 1937

Homing

233 237 427 440 641 722 1313 1441

Immune System

194 212 403 404 405 406 407 567 951 952 953 1479 1618

Internal Organs (anatomy, splanchnology)

358 450 477 506 1058 1075 1422 1557 1591 1643 1644 1680 1796

1797

International Treaties, Agreements, Politics

23 54 57 69 73 74 79 128 158 185 248 352 360

593 601 671 793 1262 1263 1390 1499 1787 1789 1870 1923

Intraspecific Aggression (postures, vocalization)

164 199 200 201 219 389 429 470 814 1007 1068 1119 1451

Juvenile or Sub-Adult Males

173 180 182 237 266 377 380 386 395 402 409 439 445

472 602 630 641 646 648 649 676 678 722 742 772 774

977 1440 1467 1542 1660 1673 1760 1856 1892 1893 1894 1895

Kuril Islands

372 557 657 985 1050 1064 1065 1074 1078 1080 1082 1095 1183
1437 1668 1798 1799 1820

Lactation

554 706 1261 1505

Life History (natural history, reproductive cycles)

15 21 51 188 195 357 374 404 505 560 569 574 606
679 753 818 917 957 981 1005 1071 1418 1553 1555 1696 1697
1764 1769 1810 1812 1859 1937

Lipids, Lipoproteins, Fatty Acids, Fatty Acid Profiles

1132 1138 1238 1261

Locomotion (incl. muscular function)

268 584 585 586 1300

Management, Conservation (reports concerning management, etc.)

3 4 5 6 7 8 10 24 29 30 31 32 33
52 55 57 72 73 74 75 77 78 80 81 92 116
117 120 122 123 124 126 127 128 129 130 132 135 136
147 158 159 220 227 248 270 274 276 278 280 282 285
286 288 290 293 295 298 300 302 304 306 308 310 312
314 316 318 319 321 323 326 327 328 330 333 334 336
339 340 342 347 349 360 364 371 381 383 385 398 399
401 412 415 418 439 471 472 473 482 485 488 557 558
560 570 571 572 573 576 577 579 583 593 601 657 658
659 660 671 678 679 747 748 749 753 762 775 835 849
854 855 945 983 987 988 991 992 1015 1016 1017 1070 1073
1086 1107 1108 1109 1182 1203 1208 1209 1210 1211 1212 1213 1215
1216 1217 1218 1219 1220 1221 1222 1272 1273 1309 1334 1335 1350
1352 1357 1361 1366 1380 1382 1398 1399 1404 1420 1481 1516 1517
1518 1519 1520 1521 1536 1537 1538 1540 1541 1542 1552 1562 1565
1569 1571 1572 1573 1578 1579 1595 1666 1668 1670 1717 1756 1757
1783 1786 1789 1811 1813 1817 1828 1831 1833 1848 1851 1852 1857
1870 1922 1923 1930 1931 1932 1933 1934 1935 1936

Marine Mammal-Fishery Interactions

10 147 156 229 270 398 476 496 547 605 608 609 615
 624 625 663 837 974 1014 1083 1098 1121 1146 1241 1242 1250
 1264 1317 1380 1529 1539 1546 1547 1650 1699 1823 1844 1873

Maturation (age at first reproduction)

1 231 264 415 506 891 1312 1330 1425 1460 1774 1845 1881
 1883 1885 1913 1916

Mednyi (Copper) Island

365 426 428 430 432 433 437 438 440 442 443 444 445
 465 470 475 1070 1295 1296 1667 1668 1826 1834 1862

Metabolism

249 503 552 553 554 602 680 784 794 896 1001 1261 1270
 1276 1284 1324 1326 1382 1383 1384 1385 1386 1387 1497 1526 1695
 1839 1928

Methods (tracking, capture, laboratory and field)

2 17 26 28 34 40 48 88 90 95 110 121 125
 147 153 155 157 183 189 232 245 246 247 328 343 355
 357 375 389 405 407 416 417 427 468 483 487 494 503
 505 518 524 527 547 583 599 660 687 689 702 723 743
 751 752 755 766 770 784 815 817 851 899 920 932 937
 944 946 991 997 999 1008 1010 1012 1043 1063 1092 1095 1096
 1099 1101 1102 1104 1105 1114 1115 1141 1192 1197 1199 1204 1207
 1230 1266 1293 1305 1322 1326 1329 1350 1403 1431 1443 1477 1517
 1531 1534 1543 1545 1556 1571 1592 1594 1645 1646 1652 1693 1697
 1714 1734 1735 1746 1758 1773 1791 1793 1800 1805 1850 1855 1866
 1868 1872 1879 1908 1925

Microbiology (viruses, bacteria, fungi, protozoa, zoonoses)

194 348 365 567 653 726 765 808 922 939 948 949 950
 951 952 953 955 1159 1191 1251 1318 1473 1479 1497 1530 1533
 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1641
 1661 1664 1689 1736 1803 1804 1847

Migration

60 61 63 94 98 119 133 143 153 155 202 226 233
 235 237 238 256 351 368 370 426 427 465 476 588 590
 595 603 604 605 655 676 678 722 724 727 739 767 809

810	811	840	891	919	979	996	1046	1047	1069	1071	1230	1250
1305	1311	1313	1330	1340	1342	1407	1408	1412	1441	1483	1489	1561
1717	1755	1771	1782	1838	1839	1840	1859	1876	1884	1937		

Models (population and ecosystem models)

93	195	204	210	225	362	363	364	409	411	418	480	566
658	659	712	720	772	998	1087	1088	1122	1310	1312	1335	1481
1482	1491	1529	1583	1613	1614	1694	1699	1772	1845	1848	1885	

Mortality, Rates and Causes (see Survival Rates)

10	55	156	176	179	182	191	195	258	266	354	355	356
363	394	405	409	411	429	430	437	447	470	471	474	477
482	507	526	527	531	536	545	549	563	615	624	625	626
630	631	653	663	690	707	729	736	747	748	767	772	773
774	775	808	814	837	846	922	923	924	925	926	928	931
935	936	939	940	941	942	944	949	950	952	953	955	987
991	1067	1087	1093	1099	1102	1107	1111	1151	1176	1223	1264	1296
1319	1331	1338	1403	1424	1550	1553	1570	1623	1629	1631	1664	1666
1667	1689	1736	1756	1762	1767	1803	1814	1822	1845	1892	1893	1894
1895	1928											

Musculature (anatomy)

358	757	1029	1300	1316	1343							
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Native Subsistence Harvest or Use

47	189	269	274	276	278	280	282	285	286	288	290	293
295	298	300	302	304	306	308	310	312	314	316	319	321
323	326	327	330	333	334	336	339	340	342	402	576	656
725	742	916	1112	1226	1227	1697	1938	1939				

Nervous System (anatomy)

620	1155	1194	1195	1316	1557	1636	1637					
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North Pacific Ocean

16	46	47	51	57	60	65	70	89	98	99	119	133
145	147	154	170	189	213	216	227	235	238	241	242	243
244	254	269	360	361	365	367	368	369	391	392	396	411
414	441	481	495	496	497	508	541	583	589	591	601	603
605	610	611	612	613	614	616	617	618	619	627	629	646
656	663	681	699	711	720	722	725	726	727	739	741	750
756	759	767	774	778	779	780	781	782	800	801	802	803

804	805	806	809	810	811	812	816	819	837	853	868	870
871	886	887	891	892	893	900	916	918	919	975	977	1012
1055	1069	1071	1078	1093	1096	1099	1101	1102	1113	1128	1132	1134
1135	1136	1137	1138	1140	1141	1151	1166	1178	1179	1180	1181	1182
1184	1186	1187	1233	1241	1250	1264	1280	1282	1284	1311	1314	1319
1320	1333	1334	1340	1343	1375	1378	1393	1407	1410	1415	1428	1430
1436	1449	1453	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464
1465	1466	1478	1480	1485	1486	1487	1488	1495	1499	1510	1512	1523
1532	1535	1547	1550	1561	1562	1575	1579	1581	1582	1583	1585	1590
1616	1618	1623	1650	1660	1665	1668	1672	1687	1692	1696	1711	1713
1714	1716	1738	1739	1740	1741	1743	1745	1747	1748	1749	1750	1751
1752	1754	1755	1759	1765	1769	1772	1774	1783	1785	1794	1795	1815
1826	1838	1840	1848	1849	1850	1858	1859	1861	1865	1870	1873	1874
1875	1876	1880	1886	1888	1892	1894	1895	1896	1903	1906	1909	1910
1917	1918	1919	1937	1938	1939							

Nutrition, Vitamins

90	146	232	661	698	922	929	930	934	938	939	1001	1125
1153	1236	1237	1238	1240	1268	1276	1497	1584	1653	1655	1853	

Okhotsk Sea

154	224	555	590	986	1004	1069	1071	1101	1342	1410	1733	1811
1840												

Paleontology, Fossils

196	587	1305	1306	1492								
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Parasitology

9	90	190	194	209	224	240	353	355	404	477	511	543
544	545	546	549	563	564	664	807	846	922	925	935	939
940	941	949	950	951	952	953	955	960	962	963	964	965
966	968	969	970	1006	1048	1049	1053	1159	1164	1165	1166	1167
1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180
1183	1184	1185	1186	1187	1251	1308	1318	1319	1392	1393	1394	1395
1396	1397	1438	1497	1621	1649	1680	1684	1691	1692	1756	1801	1924

Pathology (diseases, cause of death)

35	90	348	353	354	355	356	407	471	477	545	546	563
564	567	679	699	726	765	808	922	923	924	925	926	928
931	935	936	939	940	941	942	948	949	950	951	952	953
955	969	1006	1151	1164	1171	1172	1173	1251	1318	1319	1392	1393

1394 1497 1593 1619 1623 1624 1626 1628 1629 1664 1686 1687 1689
1803 1847 1866

Pelage (form, function, furs)

21 48 137 208 213 217 218 246 343 344 373 374 376
377 379 380 384 386 398 547 568 623 660 743 761 785
1009 1043 1088 1111 1115 1156 1207 1323 1398 1403 1493 1558 1559
1566 1567 1568 1592 1661 1675 1793 1925

Pelagic Data and Reports

17 57 62 63 65 70 88 98 119 131 133 142 147
230 231 241 242 243 244 246 398 411 471 476 498 555
590 603 604 608 610 612 613 616 617 618 619 656 663
675 678 704 739 748 755 773 778 779 780 781 782 800
801 802 803 804 805 806 837 841 868 869 870 883 884
886 887 890 997 1014 1069 1071 1091 1094 1096 1098 1101 1108
1173 1181 1182 1184 1230 1233 1242 1248 1250 1311 1314 1319 1333
1334 1342 1387 1407 1408 1409 1410 1412 1413 1414 1415 1416 1426
1429 1430 1436 1455 1456 1457 1459 1460 1461 1462 1463 1464 1465
1466 1495 1523 1528 1539 1541 1585 1628 1634 1650 1667 1690 1713
1714 1733 1738 1740 1741 1753 1755 1794 1795 1838 1839 1850 1858
1859 1860 1861 1882 1883 1884 1917 1918 1919 1937

Pharmacology (drug effects, anesthetizing, tranquilizing, immobilization)

240 355 668 927 933 1033 1174 1175 1322 1324 1325 1326 1443
1866

Physiology (general)

503 513 515 516 517 518 519 520 521 597 668 714 738
746 751 752 896 948 950 951 952 953 955 1001 1060 1061
1080 1232 1297 1302 1303 1322 1324 1325 1326 1435 1477 1533 1554
1635 1643 1651 1688 1707 1708 1709 1710 1800 1806 1846 1866 1867
1869 1920 1921

Physiology of Death (incl. humane harvest methods)

276 278 297 524 547 945 1199 1322 1324 1325 1326 1594 1791
1805 1866 1869

Population (numbers, abundance, status, estimates)

13 53 55 56 60 87 93 121 134 142 147 170 210
252 261 263 274 276 278 280 282 285 286 288 290 293

295	298	300	302	304	306	308	310	312	314	316	319	321
323	326	327	330	333	334	336	339	340	342	345	346	361
385	408	410	415	417	452	453	454	455	456	457	458	459
460	461	462	463	469	482	483	486	487	491	528	530	531
555	576	579	580	583	600	603	619	627	678	679	713	729
731	732	733	775	815	816	820	821	822	823	824	825	826
827	828	829	830	831	832	833	834	849	853	891	920	959
985	986	988	991	998	999	1003	1064	1073	1078	1086	1092	1097
1099	1100	1102	1105	1107	1108	1110	1112	1115	1128	1149	1197	1222
1230	1310	1329	1335	1336	1342	1376	1418	1419	1420	1424	1437	1449
1451	1553	1562	1595	1667	1669	1670	1717	1723	1724	1725	1726	1727
1728	1729	1730	1731	1732	1734	1735	1746	1754	1799	1809	1811	1819
1834	1850	1859	1902	1903	1907	1908						

Population Dynamics

10	93	105	106	109	124	134	195	210	225	270	271	272
362	363	408	410	411	412	415	416	418	430	431	433	447
466	470	471	477	478	487	491	506	529	531	556	558	566
589	603	625	626	630	631	650	654	658	659	660	700	712
729	736	747	748	753	772	773	774	814	816	922	959	987
991	992	998	1003	1004	1064	1068	1072	1078	1081	1086	1087	1088
1092	1093	1097	1099	1102	1105	1108	1122	1223	1310	1335	1418	1419
1425	1481	1491	1595	1613	1614	1631	1667	1703	1755	1756	1759	1770
1809	1811	1814	1819	1845	1848	1855	1862	1901	1902	1916	1928	

Population Genetics

115	251	253	254	961	1068	1469	1657	1850				
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Population Structure by Age (age ratio)

121	131	133	144	145	265	430	432	438	466	483	531	536
558	566	660	729	814	919	920	987	991	994	1068	1072	1081
1087	1097	1311	1330	1412	1419	1420	1424	1631	1634	1830	1832	1838
1840	1845											

Population Structure by Sex (sex ratio)

103	121	131	133	144	145	264	265	271	272	408	430	478
483	487	529	531	536	558	753	774	919	920	992	1072	1087
1311	1312	1331	1412	1419	1451	1634	1666	1681	1743	1747	1748	1749
1750	1751	1752	1838	1840								

Population Studies (general)

105	106	109	195	336	339	340	342	381	409	410	431	452
453	454	455	456	457	458	459	460	461	462	463	472	473
482	483	510	528	539	566	589	600	628	639	643	644	645
654	658	682	712	731	732	733	772	776	820	821	822	823
824	825	826	827	828	829	830	831	832	833	834	849	988
994	1003	1004	1078	1081	1107	1110	1112	1130	1134	1145	1149	1198
1203	1252	1253	1254	1255	1256	1257	1259	1260	1296	1310	1312	1317
1420	1451	1453	1491	1517	1553	1694	1703	1717	1745	1746	1759	1766
1770	1775	1818	1819	1822	1835	1865	1886	1903	1906	1908	1909	1910
1912												

Predator-Prey Interactions

14	378	690	736	887	1248	1271	1529	1682	1690
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Pribilof Islands (incl. Otter, St. George, St. Paul, and Walrus Islands)

3	4	5	6	7	8	45	59	61	64	72	82	84
90	103	105	106	107	108	109	184	186	187	199	216	227
228	233	237	268	274	276	278	280	282	285	286	288	290
291	293	295	297	298	300	302	304	306	308	310	312	314
316	318	319	321	323	326	327	328	330	333	334	339	340
342	353	354	355	357	360	365	366	390	391	392	395	402
407	408	409	410	411	412	413	414	415	416	447	452	453
454	455	456	457	458	459	460	461	462	463	477	480	482
483	486	487	490	491	492	493	497	501	524	545	547	549
563	566	567	570	571	572	573	575	576	580	583	589	593
600	624	626	627	628	629	630	631	632	639	640	644	645
646	648	649	650	677	681	684	685	690	694	695	697	706
711	722	726	727	728	729	730	731	732	733	734	735	738
742	767	787	795	807	808	809	810	812	816	820	821	822
823	824	825	826	827	828	829	830	831	832	833	834	835
836	842	846	849	850	853	854	888	889	902	907	924	926
928	944	945	975	977	979	1015	1016	1017	1023	1024	1025	1086
1095	1106	1107	1109	1127	1130	1135	1136	1137	1140	1144	1150	1151
1155	1156	1158	1164	1166	1169	1171	1172	1173	1174	1175	1178	1183
1186	1208	1209	1210	1211	1212	1213	1215	1216	1217	1218	1219	1220
1221	1222	1223	1224	1231	1234	1235	1246	1249	1283	1293	1310	1343
1375	1380	1391	1392	1393	1394	1395	1396	1397	1398	1401	1403	1404
1417	1418	1419	1420	1421	1425	1438	1439	1440	1450	1470	1474	1475
1476	1480	1481	1483	1487	1498	1510	1511	1512	1516	1517	1518	1519
1520	1521	1531	1536	1537	1538	1540	1541	1542	1543	1544	1546	1561

1565	1566	1568	1569	1570	1571	1572	1573	1580	1594	1615	1616	1660
1662	1672	1680	1704	1723	1724	1725	1726	1727	1728	1729	1730	1731
1732	1743	1744	1747	1748	1749	1750	1751	1752	1756	1757	1759	1769
1772	1774	1780	1783	1784	1786	1788	1791	1794	1795	1800	1805	1814
1819	1820	1836	1846	1848	1851	1852	1857	1865	1869	1880	1886	1888
1892	1894	1895	1896	1900	1901	1903	1906	1909	1910	1911	1912	1938
1939												

Pups

65	89	134	176	201	212	214	215	217	218	224	225	240
253	258	264	268	393	394	407	408	410	411	416	425	429
437	452	453	454	455	456	457	458	459	460	461	462	463
479	482	487	552	553	554	563	583	599	668	690	729	731
732	733	765	766	773	786	789	791	815	820	821	822	823
824	825	826	827	828	829	830	831	832	833	834	883	920
922	931	934	936	938	944	946	972	987	990	991	1000	1001
1058	1059	1062	1077	1080	1087	1092	1093	1094	1111	1119	1169	1174
1175	1176	1178	1180	1188	1189	1190	1302	1310	1329	1337	1339	1385
1395	1397	1439	1450	1483	1487	1508	1522	1543	1550	1563	1576	1621
1622	1664	1705	1706	1743	1745	1746	1747	1749	1752	1762	1763	1767
1768	1814	1816	1830	1832	1901	1902	1903	1906	1928			

Reproductive Biology (incl. medical topics)

1	27	204	232	246	247	260	265	505	506	507	513	515
516	517	518	519	520	521	531	561	582	675	682	706	708
1001	1055	1057	1071	1072	1097	1150	1246	1301	1332	1377	1388	1391
1425	1442	1450	1555	1654	1657	1779	1826	1904	1913	1916	1921	

Reproductive Organs (anatomy)

507	582	667	734	1057	1281	1291	1292	1388	1389	1391	1425	1544
1549	1557	1662	1913	1920	1921							

Reproductive Rates (pregnancy rates, calving interval)

1	90	93	134	231	271	363	409	415	430	447	466	471
478	487	506	527	528	529	531	536	558	566	603	678	706
708	736	747	773	891	920	959	991	992	994	998	1070	1072
1086	1092	1094	1097	1099	1102	1134	1230	1246	1312	1330	1425	1631
1774	1809	1830	1845	1882	1884	1885	1901	1916				

Reproductive System (function)

27 201 247 505 506 507 514 517 519 520 521 582 1292
1301 1389 1425 1654 1662 1913 1916 1920 1921

Robben (Tyuleniy) Island

53 55 56 89 124 197 271 364 371 373 374 375 376
378 381 382 387 389 478 556 557 560 568 657 658 659
772 773 816 986 987 988 989 990 991 992 994 1000 1001
1003 1004 1070 1072 1073 1078 1081 1086 1095 1186 1196 1322 1556
1645 1646 1666 1668 1734 1735 1736 1809 1811 1814 1819 1820 1821
1855 1926

San Miguel Island

87 94 252 526 527 528 530 531 535 536 539 540 541
764 816 1017 1179 1180 1252 1253 1254 1255 1256 1257 1259 1260
1376 1446 1447 1448 1449 1451 1621 1820 1888

Sea of Japan

61 70 119 131 145 590 773 778 779 780 781 782 800
801 802 803 804 805 806 893 974 996 997 1055 1069 1083
1101 1314 1342 1343 1408 1409 1410 1412 1413 1711 1738 1739 1740
1741 1838 1840 1849 1850 1875 1917 1918 1919

Selection and Evolution

41 115 196 203 218 270 404 450 501 585 586 587 666
675 846 970 1060 1125 1154 1269 1274 1279 1281 1305 1306 1307
1417 1419 1435 1492 1494 1554 1574 1671 1681 1682 1800 1818 1871

Sensory Systems (anatomy: eyes, ears, vibrissae)

207 718 1228 1229 1557 1558

Sensory Systems (function: vision, hearing)

160 161 162 163 164 165 166 167 168 169 1103 1472 1586

Skeletal System (anatomy, osteology)

21 110 111 112 358 372 584 589 716 717 719 756 1054
1056 1062 1063 1297 1298 1493 1544 1577 1642

Skin (anatomy)

218 377 726 1267 1558 1567 1715

Social Behavior and Organization

200 203 232 374 389 429 536 561 753 1119 1190 1200 1246
1439 1444 1681 1682 1756 1821

Social and Economic Factors of the Fur Seal Industry

50 116 227 248 269 274 276 278 280 282 285 286 288
290 293 295 297 298 300 302 304 306 308 310 312 314
316 319 321 323 326 327 330 333 334 336 339 340 342
360 490 524 701 835 836 957 1115 1158 1398 1723 1724 1725
1726 1727 1728 1729 1730 1731 1732 1784 1848 1849 1922 1923

Sound Localization

163 164 166

Spacial Orientation and Territoriality

94 200 219 382 389 423 427 429 440 446 529 561 814
973 977 1007 1119 1200 1246 1296 1441 1442 1451 1500 1681 1815
1868

Species Interactions

200 204 210 219 269 362 378 412 443 467 527 528 529
608 690 736 817 1082 1123 1124 1205 1295 1451 1650

St. George Island

216 410 690 722 1246 1283 1487 1510 1511 1512 1704 1743 1748
1749 1750 1751 1752 1865

St. Paul Island

233 237 268 353 395 402 407 410 414 501 547 563 646
648 649 722 734 738 742 850 924 926 928 975 977 1164
1166 1169 1174 1175 1178 1283 1293 1438 1439 1440 1450 1480 1481
1483 1510 1511 1512 1543 1544 1566 1568 1570 1571 1660 1672 1743
1747 1748 1749 1750 1751 1752 1791 1800 1846 1869 1880 1886 1894
1903 1938 1939

Statistical Methods, Sampling

10 93 124 363 387 408 413 416 417 418 445 729 815
899 1004 1087 1088 1092 1108 1424 1427 1553 1580 1613 1694 1821
1823 1885 1928

Strandings, Stranding Rehabilitation

665 699 974

Survival Rates (see Mortality, Rates and Causes)

156 176 179 182 195 249 258 266 268 271 272 394 411
415 471 474 566 626 630 631 653 658 659 707 773 774
925 1067 1088 1094 1097 1108 1122 1151 1176 1338 1613 1631 1762
1767 1814 1845 1881 1892 1893 1894 1895 1901 1928

Tagging and Marking (methods, evaluation, and results)

65 71 119 143 155 393 408 410 411 416 417 418 426
427 432 437 452 453 454 455 456 457 458 459 460 461
462 463 466 468 599 641 687 689 707 722 723 729 731
732 733 747 815 817 820 821 822 823 824 825 826 827
828 829 830 831 832 833 834 920 932 937 946 948 990
1012 1078 1112 1293 1312 1313 1328 1403 1407 1437 1440 1442 1446
1517 1543 1545 1645 1646 1693 1714 1717 1763 1821 1855 1856 1859
1862 1887 1896 1915

Taxonomy Systematics

18 19 20 21 23 25 43 119 196 493 670 715 716
717 718 719 852 1154 1234 1269 1274 1281 1306 1307 1405 1493
1526 1554 1647 1671 1680 1871

Terrestrial Behavior

382 423 424 435 436 446 528 989 1082 1200 1205 1439 1441
1442 1683 1812 1824

Thermoregulation

205 249 359 553 680 714 738 794 795 813 951 1009 1247
1270 1338 1382 1383 1384 1385 1387 1477 1715 1762 1868

Toxicology (incl. PCBs, etc.)

35 36 37 38 39 40 114 211 212 213 214 215 216
395 526 622 661 669 710 711 760 783 784 785 893 965
968 982 1026 1052 1053 1067 1140 1144 1284 1285 1343 1491 1515
1522 1524 1525 1534 1593 1615 1616 1711

Vocal Recognition

786 789 790 791

Vocalization

94	164	200	786	789	790	791	1007	1119	1120	1277	1442	1445
1450	1470	1471	1484	1706	1927							