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The Northern Fur Seal
(Callorhinus ursinus): A Bibliography

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

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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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February 21, 2006
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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 Procite\(^1\) 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

\(^{1}\)Reference 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.

ACKNOWLEDGMENTS

We would like to thank the many people who have been helpful in obtaining information and in giving advice concerning the design of this bibliography. Sherry (Pearson) Smrstik and Sonja Kromann, Information Specialists for the National Marine Mammal Laboratory (NMML), were particularly helpful in obtaining copies of papers, finding obscure papers and publications, providing assistance with Russian citations and generally supporting this project. Roger Pearson (deceased), Gary Duker and Jim Lee gave useful advice on the format of the references and suggestions concerning design of the bibliography. The staff of the former Fur Seal Research Program, and a number of staff involved in current fur seal research at NMML provided advice and assistance in identifying topics covered by individual papers, help that was greatly appreciated. We are grateful to Laurie Briggs for her help in maintaining and using early versions of ADP software, and Robert Pitzer for his time in proofreading the manuscript and general moral support. We thank Ed Ogle for the many hours he spent in producing a set of software designed to manage the first versions of the bibliography. Earlier drafts of the bibliography were reviewed by Norihisa Baba, Michael Bigg, Nigel Bonner, Howard Braham, Clifford Fiscus, Brian Fadely, Jean Fowler, Jack Gehringer, Tom Gelatt, Hiroshi Kajimura, Masashi Kiyota, Richard Laws, Michael Perez, Rolf Ream, Keith Ronald, Alton Roppel, Victor Scheffer, Andrew Trites, Anne York, and Steven Zimmerman. Each provided useful assistance in the form of suggestions, help and supportive words. To these and all involved in the history of this work we extend our gratitude.
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**Biochemistry**

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**Birth, Parturition**

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**Blood Chemistry**

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Clinical Medicine

212 240 355 464 516 662 699 769 770 771 927 933 948 949 950 951 952 953 955 1033 1060 1116 1174 1175 1191 1324 1443

Commander Islands


Cytogenetics

251 1662 1688

Density Dependence

210 225 362 409 566 589 625 631 650 747 772 1093 1312 1553 1631 1809 1881

Dentition

113 173 175 255 449 450 451 719 758 984 1027 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1085 1104 1125 1152 1272 1294 1493 1551 1560 1574 1576 1705 1822

Digestion and Excretion

652 653 1157 1683 1796

Distribution

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230
Diving (depth, duration, physiology)

Ecology, Oceanography, Ecosystem, Ecological Effects, Photoperiod

Ecosystem Stability

Endocrine Cycles (life history cycles)

Endocrine Organs, Hormones

Entanglement

Enzymes

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

Function (general)
Fur Seal Commission Reports and Background Papers

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

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233
Hematology and Heart Rates
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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
472 602 630 641 644 648 649 676 678 722 742 772 774
977 1440 1467 1542 1660 1673 1760 1856 1892 1893 1894 1895

234
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 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
286 288 290 293 295 298 300 302 304 306 308 309 312
314 316 318 319 321 323 326 327 328 330 333 334 336
339 340 342 347 349 360 364 371 381 383 385 389 399
401 412 415 418 439 471 472 473 482 485 488 557 558
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659 660 671 678 679 747 748 749 753 762 775 835 849
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1086 1107 1108 1109 1182 1203 1208 1209 1210 1211 1212 1213 1215
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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

235
### 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 | 367 | 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 |

236
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
482 507 526 527 531 545 549 563 615 624 625 626
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
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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

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

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
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Okhotsk Sea

| 154 | 224 | 555 | 590 | 986 | 1004 | 1069 | 1071 | 1101 | 1342 | 1410 | 1733 | 1811 |
| 1840 | Paleontology, Fossils

| 196 | 587 | 1305 | 1306 | 1492 | 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)

<p>| 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 |
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Predator-Prey Interactions

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**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 | 835 | 920 |
| 922 | 931 | 934 | 936 | 938 | 944 | 946 | 972 | 987 | 990 | 991 | 1000 | 1001 |
| 1058 | 1059 | 1062 | 1077 | 1080 | 1087 | 1092 | 1093 | 1094 | 1101 | 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 | 1664 | 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 |

243
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
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1903 1938 1939

Statistical Methods, Sampling
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1823 1885 1928
Strandings, Stranding Rehabilitation

Survival Rates (see Mortality, Rates and Causes)

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Tagging and Marking (methods, evaluation, and results)

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Taxonomy Systematics

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Thermoregulation

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Toxicology (incl. PCBs, etc.)

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Vocal Recognition

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