

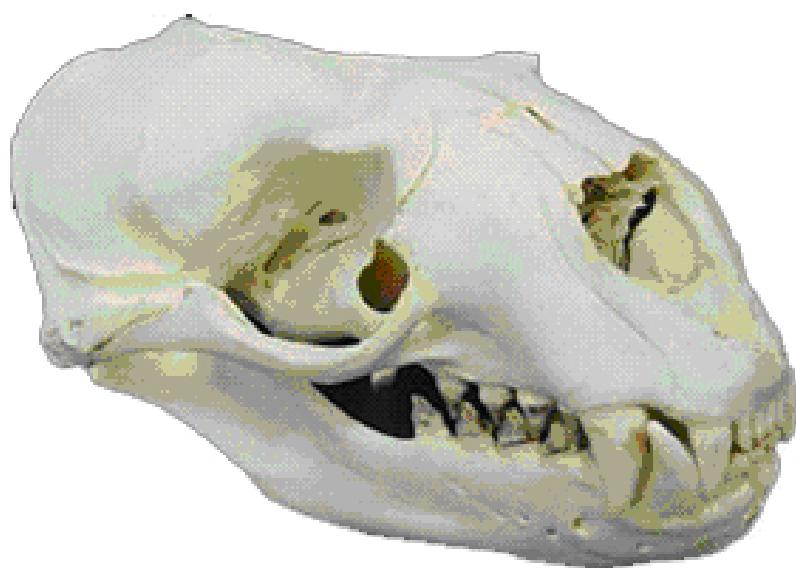
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INTERNATIONAL SURVEY OF SCIENTIFIC
COLLECTIONS OF STELLER SEA LIONS



Fisheries Centre, University of British Columbia, Canada

International Survey of Scientific Collections of Steller Sea Lions[†]

by

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Edward H. Miller, Andrew W. Trites and Øystein Wiig

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DIRECTOR'S FOREWORD

In recent years, numerous new uses have been identified for the specimens in museum collections.

Indeed, the application of new analytic techniques to these specimens has transformed museums into veritable time machines, enabling us to reconstruct not only past flora and fauna, but entire ecosystems, and to test hypotheses about the processes that link organisms. Thus, for example, both diet compositions and phylogenies can be retrieved from bits of bones, via isotopes of Carbon and Nitrogen, and the DNA they contain, thereby complementing the morphological studies that were *en vogue* at the time the collections were started.

For the power of new techniques and studies to be unleashed, the locations and contents of available collections need to be identified. Various initiatives are underway to do just so, such as the one presented here, which should have an immense impact on research.

The decline of Steller sea lions in the Gulf of Alaska and Aleutian Islands is a puzzling mystery. Clues to resolving what has happened to them may well be locked in the bones of sea lions sitting in museums and private collections around the world. As such, the available collections of Steller sea lion artifacts and their contents that are listed in the following pages will help researchers to go back in time to test hypotheses about changes that occurred to sea lions and their ecosystems.

The value of such work cannot be overrated and is only made possible because of museums and the dedicated individuals who prepare and maintain the collections.

Daniel Pauly
Director Fisheries Centre UBC

INTERNATIONAL SURVEY OF SCIENTIFIC COLLECTIONS OF STELLER SEA LIONS

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ABSTRACT

We examined or obtained information on specimens of Steller sea lions in museums and other collections. We report on 1740 specimens (complete or partial skulls) in 44 collections in Canada, Germany, Japan, the Netherlands, Russia, the United Kingdom, and the United States. At least several hundred other specimens also exist, mainly in Japan and Russia. Collection dates range from 1842 to the present. Geographically, specimens are well represented in both “Western” and “Eastern” regions (separated at 144°W longitude): 509 and 956, respectively. Collection localities within Alaskan regions 2 (Eastern Gulf of Alaska) to 8 (Eastern Bering Sea) are represented by 290 specimens; another 566 specimens are from Japan and Russia and 462 from Alaska region 1 (Southeastern Alaska) southwards. Thus specimens are well spread across the species’ breeding range, including areas of population decline. Representation is also good for the period of population decline and earlier periods: 442 specimens are from before 1960, 352 from 1960–69, 370 from 1970–79, and 487 from 1980 onwards. There are some problems with quality of data, and with seasonal and geographic representation, but we conclude that ample specimens exist to permit research pertinent to population declines in parts of the species’ range.

INTRODUCTION

Biological collections originated and grew for several reasons. Many early collections reflect explorations by Europeans. These have served as the basis of scientific descriptions of many new forms and for documenting geographic distributions. Much subsequent growth of collections resulted from scientific expeditions to particular places or from targeted collecting to close gaps in taxonomic or distributional knowledge. Enlarged collections enabled comprehensive taxonomic research and theoretically based investigations in many facets of systematic and evolutionary biology.

Collections have come to be used in non-traditional disciplines only relatively recently (Miller 1984, 1993; Miller and Scudder 1994; Odsjö 1991). For example, in recent years museum collections have been used increasingly for ecological and environmental studies because many collections are large and made over large geographic and temporal scales: stable isotopes inform about marine mammal diet, including geographic, age- and sex-related variation (Das et al. 2000; Hoelzel et al. 2002; Lesage et al. 2001; Walker and Macko 1999; Walker et al. 1999); time series of seal skulls collected over nearly two centuries reveal trends correlated with anthropogenic pollution (Bergman et al. 1992; Schandorff 1997; Zakharov and Yablokov 1990; Zakharov et al. 1997); etc.

The present study grew from a proposal by EHM and ØW to investigate museum specimens (skulls) of the Steller sea lion (*Eumetopias jubatus*) in relation to population declines in parts of the species' range (Committee on the Alaska Groundfish Fishery and Steller Sea Lions 2003). The North Pacific Universities Marine Mammal Research Consortium (NPUMMRC) suggested that a survey of collections be undertaken first, to determine whether adequate material exists to support such investigations; hence the present report.

MATERIALS AND METHODS

Collections surveyed

We visited collections in Canada, Japan, Russia, the United Kingdom, and the United States, and obtained information on other collections through correspondence; overall we obtained information on 44 collections (Appendix A). During visits we inspected specimens, specimen labels, and catalogues, if possible. Here we include data on skulls or on specimens that have skulls (e.g., fetuses preserved in fluid). Some specimens are partial (e.g., broken cranium; isolated mandible), a few are teeth, and a few are subfossils; however the vast majority of specimens are more-or-less intact skulls. We exclude data on specimens represented by only tanned skins or postcranial material.

Specimen data varied in quality and completeness, reflecting the varied sources and purposes of specimens and standards of the day. For example, some early specimens have no or only general information about locality; some specimens represent zoo animals; etc. Most specimens are from animals killed or found dead in the wild however; most specimens collected in recent years represent animals found dead.

We recorded information on age and sex only if it was included on labels or in catalogues; we did not assign sex or correct obviously mis-sexed specimens because it would have biased the sample towards old males. Collection dates of some specimens were estimated based on latest possible dates. In some cases it was possible to set latest dates based upon a specimen's position in sequences of accession or catalogue numbers. In other cases an approximate range of dates enabled an estimate; e.g., "late 1800s" would have been included in the final decade of that century (i.e., 1890-99) for data analysis.

This survey is not complete because it was not possible to visit or obtain information on all collections. Some other important Russian and Japanese collections (totalling several hundred skulls) exist and should be included in future studies. Nevertheless, we think that >90% of existing specimens are included in our survey, hence that our analyses and conclusions are firm.

Raw data are summarized in two ways. Appendix B in this report summarizes data as discussed below. They are organized by country and by year of collection within country. Locality details are abbreviated.

RESULTS

Collections analysis

Year and season of collection

The oldest specimen was collected in 1842 and specimens continue to be collected; thus material exists that covers a span of approximately 160 years (Figures 1, 2). The median date of collection is 1969, thus specimens have been collected at a higher rate over the last 32 years than over the first 127 years of the sampling period. In addition, periods of high collecting activity are evident. For example, only 22 specimens pre-date 1880 but 50 were collected in the 1880s; 114 were collected in the 1950s but 352 in the 1960s; etc. (Table 1).

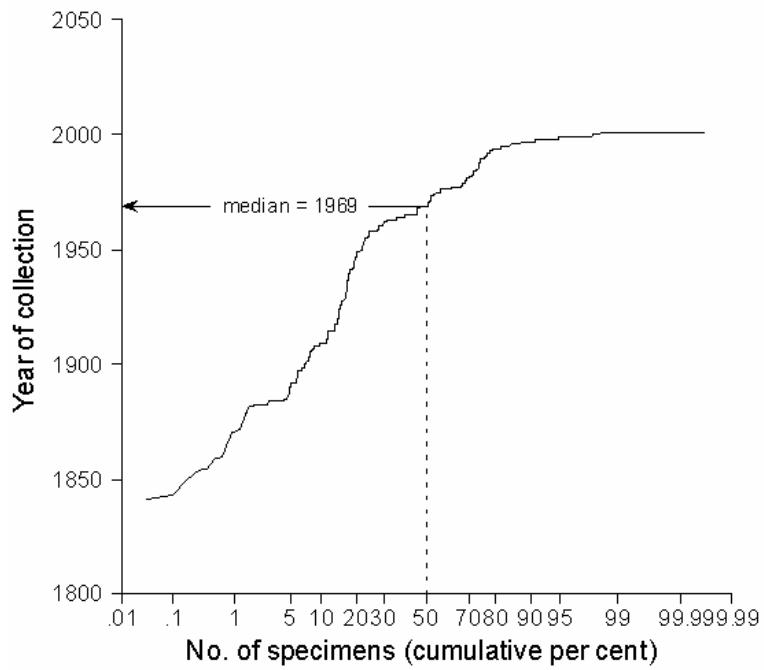


Figure 1. Specimens of Steller sea lions have been collected over more than 150 years, but rate of collecting has been uneven and has increased in recent decades.

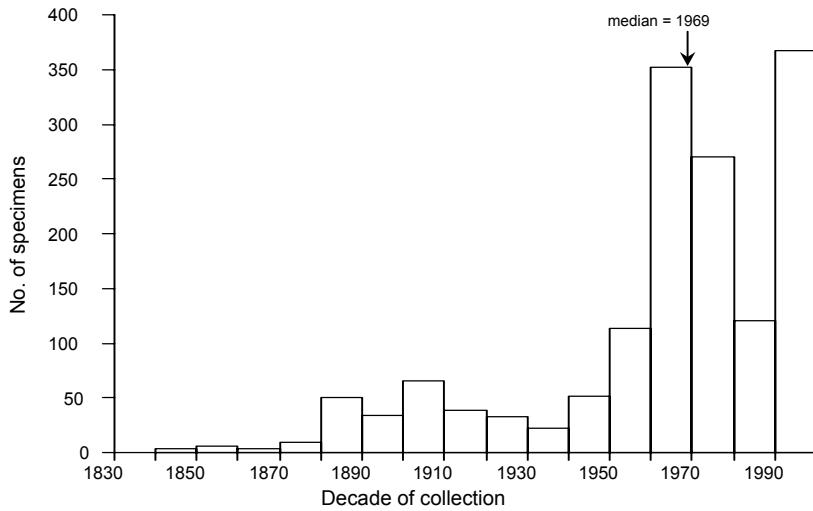


Figure 2. Collection dates of specimens of Steller sea lions are skewed towards recent decades due to some targeted research programs plus salvages of animals found dead.

Table 1. Summary of specimens broken down by sex and year-range of collection.

Date of collection	Sex:		Totals ¹
	Females	Males	
1840-49	0	0	3
1850-59	0	4	6
1860-69	0	0	4
1870-79	1	1	9
1880-89	4	14	50
1890-99	8	11	37
Totals pre-1900	13	30	109
1900-09	23	34	66
1910-19	10	23	39
1920-29	7	18	33
1930-39	2	6	22
1940-49	13	34	52
1950-59	45	53	114
1960-69	136	184	352
1970-79	138	121	270
Totals 1900-79	374	473	948
Totals pre-1980	387	503	1057
1980-89	80	34	120
1990+	184	178	367
Totals 1980+	264	212	487

¹ Including specimens of unknown sex.

Table 2. Summary of specimens broken down by country/state/province and sex.

	Sex:		Totals ¹
	Females	Males	
California	148	129	346
Oregon	18	14	38
Washington	19	24	49
Alaska	186	239	522
United States: total ²	371	408	965 ^{1,2}
British Columbia	18	37	68
Russia	51	74	160
Japan	190	229	427
Totals ³	656	784	1740 ^{1,2,3}

¹ Including specimens of unknown sex.

² Including specimens from unknown states.

³ Including specimens from unknown countries.

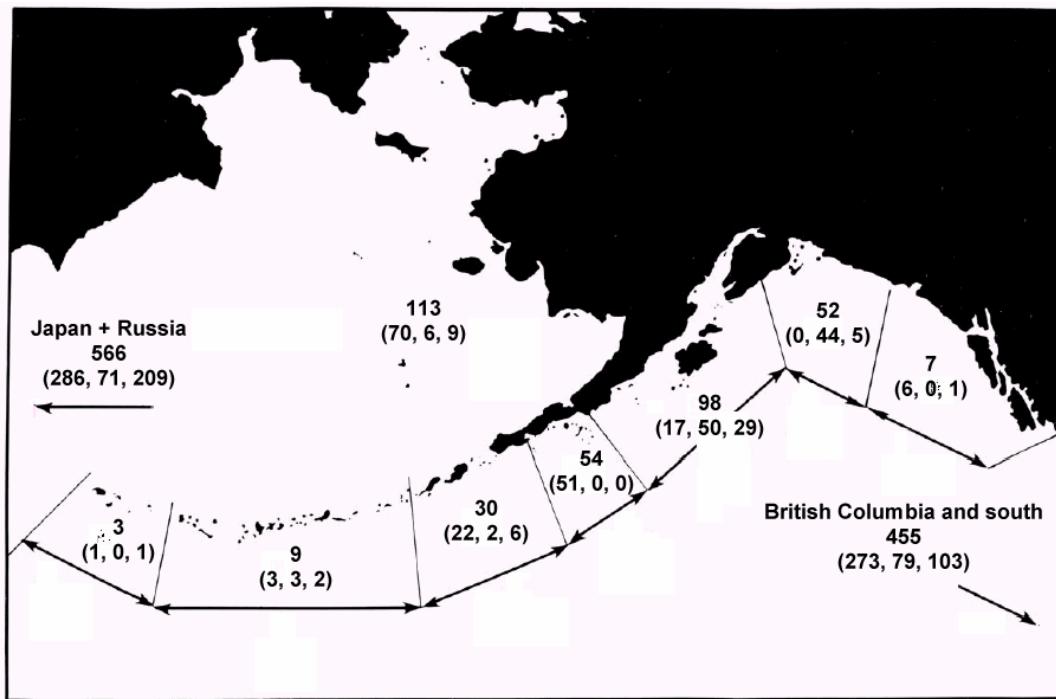


Figure 3. Specimens of Steller sea lions are well distributed across geographic divisions of the species' range (following Sease et al. 2001) and time. Numbers within each division refer to total number of specimens and (in parentheses) numbers of specimens collected before 1970, 1970-79, and after 1979.

For the four quarters of the year (January- March; April- June; July-September; October-December), 409, 295, 309, and 144 specimens exist, respectively.

Geographic representation

Most specimens have good locality information. Most (60%) specimens from known localities are from the United States (55% Alaska, 36% California, 5% Washington, 4% Oregon) (Table 2). This was followed by Japan (26%), Russia (10%), and Canada (British Columbia; 4%).

Geographic coverage in Alaska is uneven (Figure 3). Only seven specimens exist from Southeastern Alaska (Alaska region 1) and only 3 and 9 from the Western and Central Aleutian Islands (Alaska regions 6 and 7), respectively. However, other areas where the species has declined are well sampled: Gulf of Alaska (regions 2-4), 204 specimens; Eastern Aleutian Islands (region 5), 30 specimens; and Eastern Bering Sea (region 8), 113 specimens. In addition, there are 566 specimens from Japan plus Russia. Most of these are from Hokkaido, the Kuril Islands, and the Sea of Okhotsk (91%); the remainder are from Kamchatka, the Commander Islands, and the western Bering Sea generally. Further specimens from the latter three areas (collectively the region "Western Bering Sea" in included data files) have been collected recently and are continuing to be collected; others could not be included in our analyses (Sokolov et al. 1984; V. Burkhanov pers. comm.).

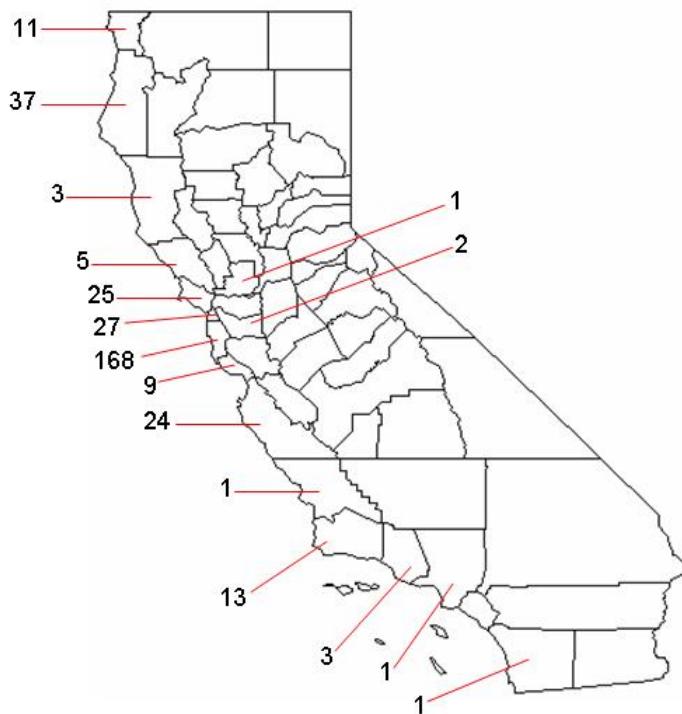


Figure 4. Specimens of Steller sea lions are unevenly distributed in California; numbers indicate the specimens documented for each county. San Mateo County, with the long-collected area centering at the breeding site Ano Nuevo Island, has 168 known specimens.

Uneven coverage is also apparent in the southern United States (Table 2). Within California, where most specimens originate, coastal counties account for from 1 to 168 specimens (Figure 4). Most come from San Mateo County, which includes the long-established breeding group on Ano Nuevo Island. Very few specimens exist from other breeding sites in California northwards to Southeastern Alaska.

Temporal and geographic representation considered jointly

The numbers of specimens in different geographic regions need to be broken down by year of collection to assess their potential for research relevant to population declines of the species. Contrasts between areas that differ in whether declines have occurred, and between time periods before, during, and after when declines were first documented, offer some logical comparisons.

Ample numbers of specimens from Japan plus Russia and Alaskan regions 2-8 represent various periods from the mid 1880s to the onset of documented population declines beginning in the late 1900s (Table 3). Particularly good collections were made in Japan in the 1960s, and moderately good collections (158 specimens) were made in those areas in the 1970s, especially in Alaska region 2 (Eastern Gulf of Alaska). Good-sized collections characterize other (southern) areas of North America for the same periods.

Table 3. Summary of specimens broken down by general locality and year-range of collection.

Years	Japan & Russia	Collection locality						Totals ²
		Alaska Regions	2-8	1	all ¹	British Columbia	Washington & Oregon	
1840-99	31	25	0	25	2	1	34	116
1900-29	15	10	5	16	18	13	65	138
1930-59	13	97	0	104	22	15	27	188
1960-69	227	33	1	38	6	7	63	352
1970-79	71	87	0	119	9	9	61	370
1980-89	20	38	1	51	1	16	32	120
1990+	189	0	0	121	0	20	34	367
Totals ³	566	290	7	474	58	81	316	1651

¹ Including specimens from unknown Alaskan regions.

² Including specimens from unknown localities.

³ Column totals only (thus excluding specimens with unknown dates of collection).

Sex and age

Collections are slightly biased towards males (Tables 1, 2). Some information on age is available for 36% of specimens but many designations are general (e.g., “yearling”, “adult”). Estimates (in years) for adults exist for 29% of specimens, based primarily on tooth sections or tagged animals. The latter figure is an underestimate, because some specimen records indicate that animals had been tagged. Thus further searches of collection information could yield data; also some information on age could not be obtained for purposes of this report (e.g., age estimates for some Alaskan specimens from the 1980s).

DISCUSSION

Biases and sources of error

Specimens have been collected for diverse purposes and in diverse circumstances. Many early specimens were shot on breeding grounds (e.g., Pribilof Islands, Ano Nuevo Island) as representative specimens of the species and have become distributed around the world. We certainly did not find all these scattered specimens, so our summary of information from the 1800s, in particular, underestimates them. More would be turned up in future work.

Specimens were commonly exchanged or donated in the 1800s and early 1900s so accompanying documentation sometimes became incomplete. Further investigations would improve documentation of many early specimens. As an example, the single skull of this species in the National Museums of Scotland (NMS) came from Edinburgh University, where it had been donated to the anatomist Sir William Turner (A. Kitchener, pers. comm.). He received the skull from the Smithsonian Institution and, although he died in 1916, it is almost certain that the specimen had an earlier collection date – in our opinion likely coinciding with the active collecting of this species by the Smithsonian Institution (SI) in the late 1800s. Research into the latter’s records could inform on this matter. Also in the SI, specimens with unknown collection year but collected by W. H. Dall, C. M. Scammon, L. Stejneger, and other well known collectors would receive improved documentation through study of institutional records (C. Potter, pers. comm.).

Some collections were made for specific studies but, like most early specimens, also are based on shot animals (e.g., Alaska, Japan). Most such Alaskan specimens have been deposited in the National Marine Mammal Laboratory (NMML), National Museum of Natural History (NMNH; in the Smithsonian Institution), or University of Alaska Museum (Fairbanks; UAM).

Finally, many specimens (most in recent years) are from animals found dead. Carcasses may be from animals that have been dead for a long time and that traveled long distances. For such specimens, both date and locality of death are uncertain (the experienced collector Raymond Bandar estimated date of death for the 102 specimens he obtained in California). Specimens found dead have uncertain origins, dates of death, and causes of death, so can not be used for all types of studies. Nevertheless they may reveal broad spatiotemporal trends in condition or pathology (Lucas et al. 2003) or size-at-age, or geographic variation in morphology (Brunner 2002).

The purposes and circumstances of collection are important for treatment of specimen data and for making temporal and geographic comparisons. Collection locality is particularly important for questions pertaining to differing population trends throughout the species' range. Ideally, collection locality should be tied to natal site but this is rarely the case. However, through assessment of collection details such as collector name, collection date, and collecting trends at the time, it is often possible to tie specimens to breeding sites where they were shot (e.g., specimens shot during the breeding period on Ano Nuevo Island in early 1900s or on the Pribilof Islands in the 1800s).

Recommendations and concluding comments

Even without new collections, existing collections of Steller sea lions are large and represent areas and times of interest for understanding population declines of the species. They would support several relevant research endeavours such as re-examining geographic variation in the species or investigating temporal or regional patterns and differences (e.g., in morphology, size, size-at-age, stable isotopes, pathology, fluctuating asymmetry). In addition to collections analyzed in this report, other collections in Japan and Russia should be included in such work.

We address collections access and use because the potential of overuse or misuse of collections exists. Large collections could become overused because it is efficient to rely on them (most specimens are concentrated in a few collections: NMML, 283; HUH, 199; UAM, 158; NMNH, 124; and BAND; 102; these total 60% of all specimens). Collections with poorly developed curatorial infrastructure and policies could permit excessive destructive sampling (e.g., for ageing or stable-isotope sampling), and could be challenged to properly support visitation, loan requests, and so on. In general there is no relationship between collections' size or scientific value and the level of institutional development dedicated to collections care. Well developed collections policies and state-of-the-art curatorial facilities characterize many collections regardless of size (e.g., CMN, MVZ, ROM, NMNH, UAM^a) but several large collections differ. For example, the Bandar collection is stored at a private residence, and NMML (with the world's largest collection of Steller sea lions) is a government laboratory with high security but little infrastructure for collections care. We recommend that consideration be given by NPUMMRC and other potential user groups to the possible impacts of research on the existing irreplaceable collections of Steller sea lions, especially early specimens.

Future collections should be planned and undertaken at selected breeding sites and at specific times to provide good time series of specimens. Ethical considerations may dictate that most such specimens are animals (especially pups) found dead; if so, they may be unrepresentative of the population at large and this will have to be considered in designing the collection/research program. Plans to prepare and archive the specimens should be made with institutions that can provide and maintain proper support (see preceding remarks).

^a See Appendix A for acronyms.

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APPENDICES

Appendix A

Summary of surveyed collections with specimens

AM	Vertebrate Zoology/Mammalogy Australian Museum 6 College Street Sydney NSW 2010 AUSTRALIA
AMNH	Department of Mammalogy American Museum of Natural History Central Park West at 79th Street New York, New York 10024-5192 U.S.A.
ANSP	Mammalogy Department The Academy of Natural Sciences 1900 Benjamin Franklin Parkway Philadelphia, Pennsylvania 19103 U.S.A.
AUG	Asahi University School of Dentistry, Department of Oral Anatomy 1851 Hozumi, Hozumi-cho, Motosu-gun Gifu, 501-0296 JAPAN
BAND	Collection of Raymond Bandar: contact CAS.
BELL	Bell Museum of Natural History University of Minnesota 10 Church Street SE Minneapolis, Minnesota 55455 U.S.A.
CAS	Ornithology and Mammalogy California Academy of Sciences 55 Concourse Drive Golden Gate Park San Francisco, California 94118-4599 U.S.A.
CMN	Vertebrate Collections/Mammals Canadian Museum of Nature P.O. Box 3443 Station D Ottawa, Ontario K1P 6P4 CANADA

CMNH	Section of Mammals Carnegie Museum of Natural History 4400 Forbes Avenue Philadelphia, Pennsylvania 15213 U.S.A.
CSLB	Biological Sciences California State University 1250 Bellflower Boulevard Long Beach, California 90840 U.S.A.
DMNS	Zoology Department Denver Museum of Nature & Science 2001 Colorado Boulevard Denver, Colorado 80205-5798 U.S.A.
FM	Division of Mammals The Field Museum 1400 S. Lake Shore Drive Chicago, Illinois 60605-2496 U.S.A.
HSU	Department of Biological Sciences Humboldt State University 1 Harpst Street Arcata, California 95521-8299 U.S.A.
HUH	Hokkaido University, Graduate School of Fisheries Sciences Minato-cho, Hakodate Hokkaido, 041 8611 JAPAN
KU	Natural History Museum and Biodiversity Research Center The University of Kansas 1345 Jayhawk Boulevard Lawrence, Kansas 66045-7561 U.S.A.
LACM	Section of Marine Mammals Natural History Museum of Los Angeles County 900 Exposition Boulevard Los Angeles, California 90024 U.S.A.
MCZ	Museum of Comparative Zoology Harvard University 26 Oxford Street Cambridge, Massachusetts 02138 U.S.A.
MNHU	Museum für Naturkunde der Humboldt-Universität zu Berlin Berlin, Invalidenstrasse 43 GERMANY

MVZ	Museum of Vertebrate Zoology University of California 3101 Valley Life Sciences Building Berkeley, California 94720-3160 U.S.A.
NAT	Naturalis: National Museum of Natural History Darwinweg, Leiden P.O. Box 9517 NL-2300 RA Leiden THE NETHERLANDS
NHM	The Natural History Museum Cromwell Road London SW7 5BD UNITED KINGDOM
NMML	National Marine Mammal Laboratory 7600 Sand Point Way NE F/AKC3 Seattle, Washington 98115-6349 U.S.A.
NMNH	Vertebrate Zoology/Division of Mammals National Museum of Natural History 10th Street and Constitution Avenue NW Washington, D.C. 20560 U.S.A.
NMS	Department of Geology and Zoology National Museums of Scotland Chambers Street Edinburgh EH1 1JF UNITED KINGDOM
NSMT	National Science Museum 3-23-1 Hyakunin-cho, Shinjuku-ku Tokyo 169-0073 JAPAN
OSU	Oregon Marine Mammal Stranding Network Marine Mammal Program, Oregon State University Hatfield Marine Science Center Newport, Oregon 97365 U.S.A.
RBCM	Vertebrate Zoology Royal British Columbia Museum 675 Belleville Street Victoria, British Columbia V8W 9W2 CANADA
ROM	Centre for Biodiversity and Conservation Biology Royal Ontario Museum 100 Queen's Park Toronto, Ontario M5S 2C6 CANADA

SBM	Vertebrate Zoology Santa Barbara Museum of Natural History 2559 Puesta del Sol Road Santa Barbara, California 93105 U.S.A.
SDM	Birds and Mammals San Diego Natural History Museum P.O. Box 121390 San Diego, California 92112-1390 U.S.A.
SOU	Biology Department Southern Oregon University 1250 Siskiyou Boulevard Ashland, Oregon 97520 U.S.A.
TINR	Pacific Scientific Research Fisheries Centre, TINRO-Centre 4, Shevchenko Alley Vladivostok, 690950 RUSSIA
UAM	Department of Mammalogy University of Alaska Museum P.O. Box 756960 907 Yukon Drive Fairbanks, AK 99775-6960 U.S.A.
UAMZ	Museum of Zoology Biological Sciences University of Alberta Edmonton, Alberta T6G 2E9 CANADA
UBC	Cowan Museum Department of Zoology University of British Columbia 6270 University Boulevard Vancouver, British Columbia V6T 1Z4 CANADA
UCLA	Dickey Bird and Mammal Collection University of California, Los Angeles Department of Organismal Biology, Ecology and Evolution 621 Charles Young Drive South Los Angeles, California 90095-1606 U.S.A.
UF	Florida Museum of Natural History University of Florida - Powell Hall SW 34th Street and Hull Road PO Box 112710 Gainesville FL 32611-2710 U.S.A.

- UMMZ** Museum of Zoology
University of Michigan
1109 Geddes Avenue
Ann Arbor, Michigan 48109-1079
U.S.A.
- UPS** James R. Slater Museum of Natural History
University of Puget Sound
Tacoma, Washington 98416
U.S.A.
- UWBM** Zoology Division
Burke Museum of Natural History & Culture
University of Washington
Box 353010
Seattle, Washington 98195
U.S.A.
- WSU** Charles R. Conner Museum
P.O. Box 644236
Washington State University
Pullman, Washington 99164-4236
U.S.A.
- YPM** Peabody Museum of Natural History
Yale University
P.O. Box 208118
170 Whitney Avenue
New Haven, Connecticut 06520-8118
U.S.A.
- ZIN** Zoological Institute, Russian Academy of Sciences
Universitetskaya nab 1, 199034
Saint Petersburg
RUSSIA
- ZMMU** Zoological Museum of M.V. Lomonosov Moscow State University
6, Bolshaya Nikitskaya Str.
Moscow 103009
RUSSIA

Appendix B

Summary of selected specimen data

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
CAN	BC	Queen Charlotte Is.: Massett	1883	July	M	immature	NMMH	A21108
CAN	BC	Vancouver I.: W coast	1885				CMN	CMNMA 116
CAN	BC	Cormorant I.: Alert Bay	1908	May	M	adult	RBCM	1442
CAN	BC	Vancouver I.: Victoria	1914				RBCM	2388
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2601
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2602
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2604
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	F		CMN	CMNMA 2612
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2600
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2603
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2605
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	F		CMN	CMNMA 2606
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2607
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2608
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2609
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2610
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	F		CMN	CMNMA 2611
CAN	BC	Vancouver I.: Barkley Sd.	1915	December	M		CMN	CMNMA 2613
CAN	BC	Vancouver I.: Barkley Sd.	1915	August	M	adult	RBCM	1472
CAN	BC	Queen Charlotte Is.: Graham I.: Tow Hill	1919		M	adult	RBCM	2075
CAN	BC	Pender I.	1927	May	M	adult	RBCM	2389
CAN	BC		1937	August	F	adult	RBCM	2436
CAN	BC		1937	March	F	immature	RBCM	4933
CAN	BC	Vancouver I.: Quatsino	1937		M	adult	RBCM	5201
CAN	BC	Vancouver I.: Quatsino	1942	June	M	immature	RBCM	1836
CAN	BC	Vancouver I.: Victoria	1942	July	F		UBC	5654
CAN	BC	Malcolm I.: Sointula	1945	June	M	adult	RBCM	5715
CAN	BC	Vancouver I.: Long Beach	1946	July	M	adult	RBCM	5716
CAN	BC	Vancouver I.: Cape Scott	1950	August	M	adult	UBC	4063
CAN	BC	Vancouver I.: Quatsino Sd.	1951	August	M	adult	RBCM	3208
CAN	BC	Vancouver I.: Ucluelet	1951	August	M	adult	UBC	7329
CAN	BC	Queen Charlotte Is.: Queen Charlotte City	1951		M		UBC	7330
CAN	BC	Nass Harbour	1956	April	M		UBC	7331
CAN	BC	Beresford I.	1956	July	F		UBC	7332
CAN	BC	Beresford I.	1956	July	M		UBC	
CAN	BC	Beresford I.	1956	July	M		UBC	

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
CAN	BC	Beresford I.	1956	July	M	UBC	7333	
CAN	BC	Beresford I.	1956	July	F	UBC	7334	
CAN	BC	Beresford I.	1956	June	F	UBC	6873	
CAN	BC	Beresford I.	1956	June	F	UBC	6874	
CAN	BC	Beresford I.	1956	June	F	UBC	6889	
CAN	BC	Beresford I.	1956	June	F	UBC	6907	
CAN	BC	Beresford I.	1956	June	F	UBC	6908	
CAN	BC	Queen Charlotte Is.: Langara I.	1960	June	F	UBC	7749	
CAN	BC	Sartine I.	1961	September	M	CMN	CMNMA 32799	
CAN	BC	Queen Charlotte Is.: Sartine I.	1961	September	F	CMN	CMNMA 32800	
CAN	BC	Queen Charlotte Is.: Langara I.	1968	July	M	UAMZ	5213	
CAN	BC	Porcher I. (W coast)	1969	April	M	RBCM	CMNMA 37037	
CAN	BC	Prince Rupert: Anian I.	1969	July	M	RBCM	CMNMA 37036	
CAN	BC	Vancouver I.: Bonilla Pt.	1970	February	M	RBCM	7193	
CAN	BC	Vancouver I.: Ardmore	1971	April	M	RBCM	7712	
CAN	BC	Triangle I.	1972	June	M	RBCM	8864	
CAN	BC	Triangle I.	1972	June	F	RBCM	8863	
CAN	BC	Triagle I.	1976	December	F	RBCM	9464	
CAN	BC	Barkley Sd.: Folger I.	1976	February	F	RBCM	9290	
CAN	BC	Barkley Sd.: Folger I.	1976	February	F	RBCM	9458	
CAN	BC	Barkley Sd.: Folger I.	1976	November	F	RBCM	9801	
CAN	BC	Port Neville	1977	September	M	RBCM	10232	
CAN	BC	Vancouver I.: Long Beach	1979	March	M	adult	10226	
CAN	BC	Vancouver I.: Victoria	1981	March	M	adult	1473	
CAN	BC	Cormorant I.: Alert Bay			M	adult	1481	
CAN	BC	Cormorant I.: Alert Bay			M	adult	39429	
CAN	BC	Queen Charlotte Is.			M	UAMZ	3248	
CAN	BC	Vancouver I.			M	CMN	CMNMA 2921	
CAN	BC	Vancouver I.: Barkley Sd.			M	CMN	CMNMA 2922	
CAN	BC	Vancouver I.: Victoria			M	UBC	6701	
CAN	BC	Cormorant I.: Alert Bay			M	CMN	NMCZ0000174	
CAN	BC	Cormorant I.: Alert Bay			M	RBCM	1354	
CAN	BC	Queen Charlotte Is.			M	CMN	CMNMA 17134	
CAN	BC	Vancouver I.			M	NHM	1872.4.30.7	
JAP	HOK	Hokkaido	1872		F	NSMT	45	
JAP	HOK	Hokkaido	1963		F			

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	JAP HOK Hokkaido: Erimo	1963			6	NSMT	14
JAP	JAP HOK Hokkaido: Erimo	1963			6	NSMT	14
JAP	JAP HOK Hokkaido: Erimo	1963			14	NSMT	23
JAP	JAP HOK Hokkaido: Erimo	1963			14	NSMT	23
JAP	JAP HOK Hokkaido: Shikabe	1963			2	NSMT	72
JAP	JAP HOK Hokkaido: Shikabe	1963			2	NSMT	72
JAP	JAP HOK Hokkaido: Shikabe	1963			2	NSMT	109
JAP	JAP HOK Hokkaido: Shikabe	1963			2	NSMT	109
JAP	JAP HOK Hokkaido: Shikabe	1963			3	NSMT	66
JAP	JAP HOK Hokkaido: Shikabe	1963			3	NSMT	66
JAP	JAP HOK Hokkaido: Shikabe	1963			3	NSMT	74
JAP	JAP HOK Hokkaido: Shikabe	1963			3	NSMT	74
JAP	JAP HOK Hokkaido: Shikabe	1963			3	NSMT	74
JAP	JAP HOK Hokkaido: Shikabe	1963			3	NSMT	76
JAP	JAP HOK Hokkaido: Shikabe	1963			3	NSMT	76
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	48
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	48
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	61
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	61
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	64
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	64
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	69
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	69
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	73
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	127
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	127
JAP	JAP HOK Hokkaido: Shikabe	1963			4	NSMT	170
JAP	JAP HOK Hokkaido: Shikabe	1963			5	NSMT	65
JAP	JAP HOK Hokkaido: Shikabe	1963			5	NSMT	65
JAP	JAP HOK Hokkaido: Shikabe	1963			5	NSMT	138
JAP	JAP HOK Hokkaido: Shikabe	1963			7	NSMT	147
JAP	JAP HOK Hokkaido: Shikabe	1963			7	NSMT	147
JAP	JAP HOK Hokkaido: Shikabe	1963			11	NSMT	104
JAP	JAP HOK Hokkaido: Shikabe	1963				NSMT	104

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	HOK Hokkaido; Shikabe	1963		M	12	NSMT	75
JAP	HOK Hokkaido; Shikabe	1963		M	5	NSMT	75
JAP	HOK Hokkaido; Shikabe	1963		M	2	NSMT	105
JAP	HOK Hokkaido; Shikabe	1963		M	2	NSMT	105
JAP	HOK Hokkaido; Shikabe	1963		F	3	NSMT	119
JAP	HOK Hokkaido; Shikabe	1963		F	3	NSMT	119
JAP	HOK Hokkaido; Shikabe	1963		M	3	NSMT	120
JAP	HOK Hokkaido; Shikabe	1963		M	3	NSMT	120
JAP	HOK Hokkaido; Shikabe	1963		M	3	NSMT	124
JAP	HOK Hokkaido; Shikabe	1963		M	3	NSMT	124
JAP	HOK Hokkaido; Shikabe	1963		M	3	NSMT	171
JAP	HOK Hokkaido; Shikabe	1964		M	5	NSMT	51
JAP	HOK Hokkaido; Shikabe	1964		M	2	NSMT	153
JAP	HOK Hokkaido; Shikabe	1964		M	2	NSMT	153
JAP	HOK Hokkaido; Shikabe	1964		M	3	NSMT	145
JAP	HOK Hokkaido; Shikabe	1964		M	3	NSMT	145
JAP	HOK Hokkaido; Shikabe	1964		M	3	NSMT	177
JAP	HOK Hokkaido; Shiretoko; Rausu	1963		M	3	NSMT	177
JAP	HOK Hokkaido	1964		M	4	NSMT	3
JAP	HOK Hokkaido	1964		M	4	NSMT	63
JAP	HOK Hokkaido	1964		M	4	NSMT	63
JAP	HOK Hokkaido	1964		F	8	NSMT	170
JAP	HOK Hokkaido	1964		F	8	NSMT	63
JAP	HOK Hokkaido	1964		F	8	NSMT	148
JAP	HOK Hokkaido	1964		F	9	NSMT	148
JAP	HOK Hokkaido	1964		F	9	NSMT	18
JAP	HOK Hokkaido	1964		F	9	NSMT	18
JAP	HOK Hokkaido	1964		F	9	NSMT	129
JAP	HOK Hokkaido	1964		F	14	NSMT	129
JAP	HOK Hokkaido	1964		F	14	NSMT	166
JAP	HOK Hokkaido	1964		F	20	NSMT	166
JAP	HOK Hokkaido	1964		pup	20	NSMT	50
JAP	HOK Hokkaido	1964		pup	20	NSMT	50
JAP	HOK Hokkaido	1964		M	13	NSMT	13
JAP	HOK Hokkaido	1964		M	13	NSMT	13
JAP	HOK Hokkaido	1964		F	44	NSMT	44

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	JAP HOK Hokkaido	1965		M		NSMT	173
JAP	JAP HOK Hokkaido: Erimo	1965		M		NSMT	42
JAP	JAP HOK Hokkaido: Shikabe	1965		F		NSMT	67
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1965		F		NSMT	52
JAP	JAP HOK Hokkaido: Syakoran	1965		M		NSMT	167
JAP	JAP HOK Hokkaido: Syakoran	1965		M		NSMT	15
JAP	JAP HOK Hokkaido: Syakoran	1965		M		NSMT	169
JAP	JAP HOK Hokkaido: Rebun I. (northern)	1968	December	M	10.6	AUG	1030
JAP	JAP HOK Hokkaido: Rebun I. (northern)	1968	winter	M	15.6	AUG	1328
JAP	JAP HOK Hokkaido: Rishiri I.	1969		M	14.1	AUG	1323
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		M	1.1	AUG	1047
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		M	2.1	AUG	1179
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		M	2.1	AUG	1181
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		F	2.1	AUG	1184
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		M	2.1	AUG	1430
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		F	3.1	AUG	1185
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		F	5.1	AUG	1050
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		F	7.1	AUG	1052
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		F	12.1	AUG	1180
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		F	adult	AUG	1049
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1969		F		AUG	1048
JAP	JAP HOK Hokkaido: nr. Nemuro	1969	April-June	M	1.9	AUG	1337
JAP	JAP HOK Hokkaido: Rebun I. (northern)	1969	February	M	7.7	AUG	1032
JAP	JAP HOK Hokkaido: Rebun I. (northern)	1969	February	M	11.7	AUG	1033
JAP	JAP HOK Hokkaido: Rebun I. (northern)	1969	February	M	13.7	AUG	1031
JAP	JAP HOK Hokkaido: Shiretoko: Rausu: Misaki-Cho	1969	February	M	young	AUG	1733
JAP	JAP HOK Hokkaido: Shiretoko: Rausu: Misaki-Cho	1969	February	F		AUG	1732
JAP	JAP HOK Hokkaido: Mouth of Akkeshi Bay	1969	March	F	1.8	AUG	1037
JAP	JAP HOK Hokkaido: Mouth of Akkeshi Bay	1969	March	F	5.8	AUG	1035
JAP	JAP HOK Hokkaido: Mouth of Akkeshi Bay	1969	March	F	5.8	AUG	1036
JAP	JAP HOK Hokkaido: Mouth of Akkeshi Bay	1969	March	F	8.8	AUG	1034
JAP	JAP HOK Hokkaido: Mouth of Akkeshi Bay	1969	March	M	fetus	AUG	1034's fetus
JAP	JAP HOK Hokkaido: Mouth of Akkeshi Bay	1969	March	M	fetus	AUG	1035's fetus
JAP	JAP HOK Hokkaido: Mouth of Akkeshi Bay	1969	March	F	fetus	AUG	1036's fetus
JAP	JAP HOK Hokkaido: nr. Daikoku I.	1969	March	F	4.8	AUG	1038

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	HOK Hokkaido; nr. Daikoku I.	1969	March	F	9.8	AUG	1039
JAP	HOK Hokkaido; nr. Daikoku I.	1969	March	F	12.8	AUG	1040
JAP	HOK Hokkaido; nr. Daikoku I.	1969	March	M	fetus	AUG	1038's fetus
JAP	HOK Hokkaido; nr. Daikoku I.	1969	March	F	fetus	AUG	1039's fetus
JAP	HOK Hokkaido; nr. Daikoku I.	1969	March	M	fetus	AUG	1040's fetus
JAP	HOK Hokkaido; nr. Nemuro	1969	May	M	1.9	AUG	1332
JAP	HOK Hokkaido; nr. Nemuro	1969	May	M	2.9	AUG	1333
JAP	HOK Hokkaido; Rebun I. (northern)	1969	May	M	2.9	AUG	1326
JAP	HOK Hokkaido; Rebun I. (northern)	1969	May	M	2.9	AUG	1330
JAP	HOK Hokkaido; Rebun I. (northern)	1969	winter	M	4.6	AUG	1327
JAP	HOK Hokkaido; Rebun I. (northern)	1969	winter	M	4.6	AUG	1329
JAP	HOK Hokkaido; Rebun I. (northern)	1969	winter	M	5.6	AUG	1331
JAP	HOK Hokkaido; Rebun I. (northern)	1969	winter	M	7.6	AUG	1324
JAP	HOK Hokkaido; Rebun I. (northern)	1969	winter	M	9.6	AUG	1325
JAP	HOK Hokkaido; Rebun I. (northern)	1969	winter	F	2.6	AUG	1186
JAP	HOK Hokkaido; Shiretoko; Rausu	1969	winter	F	9.6	AUG	1187
JAP	HOK Hokkaido; Shiretoko; Rausu	1969	June	F	3	AUG	1719
JAP	HOK Hokkaido; nr. Yururi I.	1970	April	M	young	AUG	1730
JAP	HOK Hokkaido; Erimo Cape	1974		M	17-18	AUG	75K25
JAP	HOK Hokkaido; Rebun I. (northern)	1974		M	5.5	AUG	75K 2
JAP	HOK Hokkaido; Rebun I. (northern)	1975	December	M	6.5	AUG	75K 4
JAP	HOK Hokkaido; Rebun I. (northern)	1975	December	M	9.5	AUG	75K 3
JAP	HOK Hokkaido; Rebun I. (northern)	1975	December	M	16.5	AUG	75K 1
JAP	HOK Hokkaido; Rebun I. (northern)	1975	December	M	5.5	AUG	75K 7
JAP	HOK Hokkaido; Rebun I.; Hirajima Rocks	1975	December	M	8.5	AUG	75K 6
JAP	HOK Hokkaido; Rebun I.; Hirajima Rocks	1975	December	M	4.5	AUG	75K 5
JAP	HOK Hokkaido; Rebun I.; Tanejima Rocks	1975	December	M	14.6	AUG	75K 9
JAP	HOK Hokkaido; Rebun I.; Hirajima Rocks	1976	February	M	15.7	AUG	75K26
JAP	HOK Hokkaido; Rebun I. (southern)	1976	January	M	4-5	AUG	1734
JAP	HOK Hokkaido; Rebun I.; Hamanaka	1976	January	M	6.6	AUG	75K 8
JAP	HOK Hokkaido; Rebun I.; Hirajima Rocks	1976	January-February	M	0.6	AUG	75K12
JAP	HOK Hokkaido; Rebun I. (northern)	1976	January-February	M	1.6	AUG	75K22
JAP	HOK Hokkaido; Rebun I. (northern)	1976	January-February	M	1.6	AUG	75K19
JAP	HOK Hokkaido; Rebun I. (northern)	1976	January-February	M	3.6	AUG	75K21
JAP	HOK Hokkaido; Rebun I. (northern)	1976	January-February	M	4.6	AUG	75K10

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	5.6	AUG	75KII
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	7.6	AUG	75K14
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	7.6	AUG	75K15
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	8.6	AUG	75K18
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	8.6	AUG	75K23
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	8.6	AUG	75K17
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	10.6	AUG	75K16
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	11.6	AUG	75K24
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	12.6	AUG	75K13
JAP	HOK Hokkaido: Rebun I. (northern)	1976	January-February	M	12.6	AUG	75K20
JAP	HOK Hokkaido: Shiretoko: Rausu	1979	May	F	1.9	AUG	Shibano-1
JAP	HOK Hokkaido	1983		F		HUH	83N8
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	February	M	3	HUH	94003
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	February	F	4	HUH	94004
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	February	F	9	HUH	94005
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	M	3	HUH	94012
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	3	HUH	94016
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	M	3	HUH	94018
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	M	4	HUH	94006
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	M	4	HUH	94007
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	M	4	HUH	94009
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	M	4	HUH	94010
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	5	HUH	94011
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	5	HUH	94020
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	6	HUH	94008
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	6	HUH	94015
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	6	HUH	94017
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	7	HUH	94021
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	7	HUH	94023
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	7	HUH	94024
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	7	HUH	94025
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	11	HUH	94022
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	12	HUH	94019
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	13	HUH	94026
JAP	HOK Hokkaido: Shiretoko: Rausu	1994	March	F	15	HUH	94014

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	2	HUH	95005
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	5	HUH	95007
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	5	HUH	95010
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	5	HUH	95012
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	6	HUH	95002
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	6	HUH	95021
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	7	HUH	95003
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	7	HUH	95022
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	7	HUH	95023
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	8	HUH	95008
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	8	HUH	95014
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	8	HUH	95016
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	8	HUH	95020
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	8	HUH	95025
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	9	HUH	95001
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	9	HUH	95006
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	9	HUH	95013
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	10	HUH	95009
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	10	HUH	95011
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	10	HUH	95026
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	11	HUH	95004
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	11	HUH	95024
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	12	HUH	95015
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	12	HUH	95019
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	F	14	HUH	95018
JAP	HOK Hokkaido: Shiretoko: Rausu	1995	February	M	5	HUH	96205
JAP	HOK Hokkaido: Rebun I.	1996	February	F	3	HUH	96206
JAP	HOK Hokkaido: Rebun I.	1996	February	M	5	HUH	96102
JAP	HOK Hokkaido: Shakotan	1996	February	M	9	HUH	96101
JAP	HOK Hokkaido: Shiretoko: Rausu	1996	February	M	3	HUH	96012
JAP	HOK Hokkaido: Shiretoko: Rausu	1996	February	M	3	HUH	96013
JAP	HOK Hokkaido: Shiretoko: Rausu	1996	February	M	4	HUH	96011
JAP	HOK Hokkaido: Shiretoko: Rausu	1996	February	F	4	HUH	96015
JAP	HOK Hokkaido: Shiretoko: Rausu	1996	February	F	5	HUH	96010
JAP	HOK Hokkaido: Shiretoko: Rausu	1996	February	F	11	HUH	96008

Localities	Locality details	Year	Season	Age	Sex	Collection	Cat. no.
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	February	F	F	HUH	96014
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	February	F	F	HUH	96009
JAP	JAP HOK Hokkaido: Rebun I.	1996	January	F	M	HUH	96201
JAP	JAP HOK Hokkaido: Rebun I.	1996	January	F	F	HUH	96203
JAP	JAP HOK Hokkaido: Rebun I.	1996	January	F	F	HUH	96204
JAP	JAP HOK Hokkaido: Rebun I.	1996	January	F	F	HUH	96202
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	January	F	F	HUH	96002
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	January	F	F	HUH	96006
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	January	F	F	HUH	96007
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	January	F	F	HUH	96005
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	January	F	F	HUH	96001
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	January	F	F	HUH	96003
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	January	F	F	HUH	96207
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	March	M	M	HUH	97207
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	February	F	F	HUH	97208
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	February	F	F	HUH	97209
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1996	February	F	M	HUH	97206
JAP	JAP HOK Hokkaido: Rebun I.	1997	February	F	F	HUH	97210
JAP	JAP HOK Hokkaido: Rebun I.	1997	February	F	F	HUH	97106
JAP	JAP HOK Hokkaido: Rebun I.	1997	February	F	M	HUH	97020
JAP	JAP HOK Hokkaido: Rebun I.	1997	February	F	M	HUH	97017
JAP	JAP HOK Hokkaido: Rebun I.	1997	February	F	M	HUH	97019
JAP	JAP HOK Hokkaido: Rebun I.	1997	February	F	M	HUH	97021
JAP	JAP HOK Hokkaido: Shakotan	1997	February	F	M	HUH	97012
JAP	JAP HOK Hokkaido: Shakotan	1997	February	F	M	HUH	97011
JAP	JAP HOK Hokkaido: Shakotan	1997	January	M	M	HUH	97202
JAP	JAP HOK Hokkaido: Shakotan	1997	January	M	M	HUH	97205
JAP	JAP HOK Hokkaido: Rebun I.	1997	January	F	F	HUH	97203
JAP	JAP HOK Hokkaido: Rebun I.	1997	January	F	F	HUH	97204
JAP	JAP HOK Hokkaido: Rebun I.	1997	January	M	M	HUH	97103
JAP	JAP HOK Hokkaido: Shakotan	1997	January	M	M	HUH	97105
JAP	JAP HOK Hokkaido: Shakotan	1997	January	M	M	HUH	97104
JAP	JAP HOK Hokkaido: Shakotan	1997	January	M	M	HUH	97002
JAP	JAP HOK Hokkaido: Shakotan	1997	January	M	M	HUH	97009
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1997	January	M	F	HUH	97010

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	HOK Hokkaido; Shiretoko; Rausu	1997	January	M	10	HUH	97001
JAP	HOK Hokkaido; Shiretoko; Rausu	1997	January	F	10	HUH	97005
JAP	HOK Hokkaido; Rebun I.	1997	March	M	1	HUH	97211
JAP	HOK Hokkaido; Rebun I.	1997	March	M	10	HUH	97212
JAP	HOK Hokkaido	1997		M	6	HUH	97ST01
JAP	JAP HOK Hokkaido; Shakotan	1997		M	6	HUH	97109
JAP	JAP HOK Hokkaido; Shakotan	1997		M	6	HUH	97110
JAP	JAP HOK Hokkaido; Shakotan	1997		M	7	HUH	97108
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1997		M	1	HUH	97015
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1997		M	2	HUH	97016
JAP	JAP HOK Hokkaido; Rebun I.	1998	February	F	2	HUH	98202
JAP	JAP HOK Hokkaido; Rebun I.	1998	February	F	10	HUH	98203
JAP	JAP HOK Hokkaido; Rebun I.	1998	February	M		HUH	98204
JAP	JAP HOK Hokkaido; Rebun I.	1998	February	F		HUH	98205
JAP	JAP HOK Hokkaido; Shakotan	1998	February	F		HUH	98206
JAP	JAP HOK Hokkaido; Shakotan	1998	February	M	3	HUH	98102
JAP	JAP HOK Hokkaido; Shakotan	1998	February	M	4	HUH	98103
JAP	JAP HOK Hokkaido; Shakotan	1998	February	M	5	HUH	98101
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	February	M	2	HUH	98024
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	February	F	2	HUH	98026
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	February	F	3	HUH	98027
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	February	F	6	HUH	98025
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	February	F	9	HUH	98028
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	February	F	13	HUH	98030
JAP	JAP HOK Hokkaido; Rebun I.	1998	January	F	20	HUH	98201
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	M	3	HUH	98005
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	M	3	HUH	98015
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	3	HUH	98019
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	4	HUH	98013
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	5	HUH	98020
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	6	HUH	98014
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	7	HUH	98011
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	8	HUH	98008
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	9	HUH	98002
JAP	JAP HOK Hokkaido; Shiretoko; Rausu	1998	January	F	10	HUH	98016

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	January	F	11	HUH	98017
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	January	F	12	HUH	98022
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	January	F	13	HUH	98012
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	January	F	14	HUH	98009
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	January	F	15	HUH	98003
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	January	M	pup	HUH	98004
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	January	F	15	HUH	98007
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	March	F	6	HUH	98207
JAP	JAP HOK Hokkaido: Rebun I.	1998	March	M	7	HUH	98208
JAP	JAP HOK Hokkaido: Rebun I.	1998	March	F	8	HUH	98209
JAP	JAP HOK Hokkaido: Rebun I.	1998	March	F	9	HUH	98106
JAP	JAP HOK Hokkaido: Shakotan	1998	March	M	9	HUH	98107
JAP	JAP HOK Hokkaido: Shakotan	1998	March	M	10	HUH	98105
JAP	JAP HOK Hokkaido: Shakotan	1998	March	M	11	HUH	98104
JAP	JAP HOK Hokkaido: Shakotan	1998	March	M	12	HUH	98108
JAP	JAP HOK Hokkaido: Shakotan	1998	March	M	13	HUH	98ST02
JAP	JAP HOK Hokkaido: Shakotan	1998	March	M	14	HUH	98CH02
JAP	JAP HOK Hokkaido: Rebun I.	1998	March	M	14	HUH	98ST01
JAP	JAP HOK Hokkaido: Rebun I.	1998	March	M	14	HUH	98NT02
JAP	JAP HOK Hokkaido: Rebun I.	1998	March	M	14	HUH	98210
JAP	JAP HOK Hokkaido: Rebun I.	1998	March	M	18	HUH	98211
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1998	February	F	2	HUH	98031
JAP	JAP HOK Hokkaido: Rebun I.	1998	February	F	2	HUH	99203
JAP	JAP HOK Hokkaido: Rebun I.	1999	February	F	2	HUH	99205
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1999	February	M	3	HUH	99017
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1999	February	M	3	HUH	99019
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1999	February	F	9	HUH	99015
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1999	February	F	14	HUH	99018
JAP	JAP HOK Hokkaido: Shiretoko: Rausu	1999	February	M	1	HUH	99016
JAP	JAP HOK Hokkaido: Rebun I.	1999	January	F	2	HUH	99201
JAP	JAP HOK Hokkaido: Rebun I.	1999	January	F	2	HUH	99202
JAP	JAP HOK Hokkaido: Rebun I.	1999	January	F	7	HUH	99204
JAP	JAP HOK Hokkaido: Shakotan	1999	January	M	7	HUH	99101
JAP	JAP HOK Hokkaido: Shakotan	1999	January	M	8	HUH	99102
JAP	JAP HOK Hokkaido: Shakotan	1999	January	M	8	HUH	99104

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
JAP	JAP HOK Hokkaido					HUH	K10
JAP	JAP HOK Hokkaido: Erimo					NSMT	42
JAP	JAP HOK Hokkaido: Shikabe					NSMT	67
JAP	JAP HOK Hokkaido: Shiretoko: Rausu					NSMT	52
JAP	JAP HOK Hokkaido: Syakoran					NSMT	167
RUS	RUS Sitha I.	1863		M		ZIN	725
RUS	RUS WBS Commander Is.: Bering I.	1881				ZIN	725
RUS	RUS HOK Sea of Okhotsk	1882				NMNH	3251
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	13984
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	13968
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	13969
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	A21297
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	A21299
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	A21302
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	A21303
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	A21304
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	A21305
RUS	RUS HOK Sakhalinskaya: Tyuleniy Island	1883				NMNH	A21307
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	3264
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	3293
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6637
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6794
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6795
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6796
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6798
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6799
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6800
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	6801
RUS	RUS HOK Sea of Okhotsk: Tjulenij I.	1884				ZIN	11464
RUS	RUS WBS Commander Is.: Bering I.	1884				ZIN	3250
RUS	RUS WBS Commander Is.: Bering I.	1884				ZIN	3257
RUS	RUS WBS Commander Is.: Bering I.	1886				ZIN	3128
RUS	RUS WBS Commander Is.: Bering I.	1892	June	M	juvenile	NMNH	A47104
RUS	RUS WBS Kamchatka	1892				ZIN	6792

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
RUS	RUS	WBS Kamchatka	1905	June	M	adult	ZMMU	1587
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	M	adult	ZIN	11451
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	F	adult	ZIN	11452
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	F	adult	ZIN	11454
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	F	adult	ZIN	11455
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	F	adult	ZIN	11456
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	F	adult	ZIN	11458
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	M	adult	ZIN	11459
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	M	adult	ZIN	11460
RUS	RUS	WBS Kamchatka: Kamchatka Cape	1909	June	F	adult	ZIN	11461
RUS	RUS	WBS Commander Is.	1910	July	M	adult	ZIN	11466
RUS	RUS	HOK Sea of Okhotsk: Ol'skiy I.	1928		M		ZMMU	82944
RUS	RUS	WBS Commander Is.: Bering I.	1928		M		NHM	1928.4.21.6.8
RUS	RUS	WBS Commander Is.: Bering I.	1928		M		NHM	1928.4.21.6.9
RUS	RUS	WBS Commander Is.: Bering I.	1928		M		NHM	1928.4.21.7.0
RUS	RUS	WBS Commander Is.	1931	March	M		ZIN	16050
RUS	RUS	WBS Commander Is.: Bering I.	1931	May	M		ZIN	18571
RUS	RUS	HOK Sea of Okhotsk: Sivuch Cape	1938	July	F		ZMMU	21661
RUS	RUS	HOK Sea of Okhotsk: St. Jona I.	1940	July	F		ZMMU	45048
RUS	RUS	HOK Sea of Okhotsk: St. Jona I.	1940	July	F		ZMMU	45052
RUS	RUS	HOK Sea of Okhotsk: St. Jona I.	1942	July	F	juvenile	ZMMU	45049
RUS	RUS	HOK Sea of Okhotsk: St. Jona I.	1942	July	M		ZMMU	45053
RUS	RUS	WBS Kamchatka: Kronotsky	1942	July	M		ZMMU	45054
RUS	RUS	HOK Sea of Okhotsk: St. Jona I.	1948		F		ZMMU	49263
RUS	RUS	HOK Sea of Okhotsk: St. Jona I.	1948		F		ZMMU	49264
RUS	RUS	HOK Sea of Okhotsk: St. Jona I.	1950	May	F	juvenile	ZMMU	64800
RUS	RUS	WBS Kamchatka	1951				ZMMU	53357
RUS	RUS	HOK Kuril Is.	1959				ZMMU	60150
RUS	RUS	WBS Commander Is.	1962	February	F		ZMMU	69372
RUS	RUS	WBS Commander Is.	1962	July	M		ZMMU	69474
RUS	RUS	WBS Commander Is.	1962	June	M		ZMMU	69529
RUS	RUS	WBS Commander Is.	1962	June	M		ZMMU	69530
RUS	RUS	WBS Commander Is.	1962	June	M		ZMMU	69535
RUS	RUS	WBS Commander Is.	1962	September	M		ZMMU	69538
RUS	RUS	HOK Kuril Is.	1963	July	F		TINR	N39

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
RUS RUS	HOK Kuril Is.: Antsiferovo I.	1963	July	M	5	TINR	N33
RUS RUS	HOK Kuril Is.: Chirinkotan I.	1963	July	M	4	TINR	N34
RUS RUS	HOK Kuril Is.	1963				TINR	132
RUS RUS	HOK Kuril Is.	1963				TINR	134
RUS RUS	HOK Kuril Is.	1963				TINR	383
RUS RUS	HOK Kuril Is.	1964	August	M	4	TINR	189
RUS RUS	HOK Kuril Is.	1964	August	M	5	TINR	177
RUS RUS	HOK Kuril Is.	1964	August	M	7	TINR	186
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	August	F	5	TINR	179
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	August	F	11	TINR	184
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	August	F	15	TINR	178
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	August	F	20	TINR	185
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	August	M	pup	TINR	182
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	August	M	pup	TINR	183
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	July	M	10	TINR	158
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	May	F	5	TINR	148
RUS RUS	HOK Kuril Is.: Raykoke I.	1964	June	F	16	TINR	196
RUS RUS	HOK Kuril Is.: Raykoke I.	1965	June	M	pup	TINR	198
RUS RUS	HOK Kuril Is.: Raykoke I.	1965	June	F	7	TINR	168
RUS RUS	HOK Kuril Is.: Raykoke I.	1965	June	M	pup	TINR	169
RUS RUS	HOK Kuril Is.: Raykoke I.	1966	October	M		TINR	20117
RUS RUS	HOK Kuril Is.: Raykoke I.	1966	October	M		ZIN	33720
RUS RUS	HOK Kuril Is.: Raykoke I.	1966	October	M		ZIN	33721
RUS RUS	HOK Kuril Is.: Raykoke I.	1966	October	M		ZIN	33722
RUS RUS	HOK Kuril Is.: Raykoke I.	1966	October	M		ZIN	33723
RUS RUS	HOK Kuril Is.: Raykoke I.	1966	October	M		ZIN	33724
RUS RUS	HOK Kuril Is.: Lovushki I.	1968	October	M		ZIN	33719
RUS RUS	HOK Kuril Is.: Lovushki I.	1968	October	M		AUG	1696
RUS RUS	HOK Kuril Is.: Lovushki I.	1969	October	M		AUG	1646
RUS RUS	WBS Commander Is.: Bering I.	1969	October	M		AUG	1631
RUS RUS	WBS Commander Is.: Bering I.	1969	October	M		TINR	260
RUS RUS	WBS Commander Is.: Bering I.	1969	October	M		TINR	267
RUS RUS	WBS Commander Is.: Bering I.	1969	October	M		TINR	265
RUS RUS	WBS Commander Is.: Bering I.	1969	October	F	adult	ZIN	1646
RUS RUS	WBS Commander Is.: Bering I.	1969	October	F	adult	ZIN	1696
RUS RUS	WBS Commander Is.: Bering I.	1970	June	M	0.9	AUG	1631
RUS RUS	WBS Commander Is.: Bering I.	1970	May	M	0.9	AUG	1646
RUS RUS	HOK Kuril Is. (southern)	1970	June	M	5	TINR	260
RUS RUS	HOK Kuril Is. (southern)	1970	June	M	5	TINR	267
RUS RUS	HOK Kuril Is.: Chernyye Brat'ya I.	1972	June	M	20	TINR	265
RUS RUS	HOK Kuril Is.: Matua I.	1972	June	F	6	TINR	270
RUS RUS	HOK Kuril Is.: Iturup I.	1972	March				

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100249
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100250
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100251
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100252
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100253
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100254
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100255
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100256
RUS	RUS WBS Commander Is.	1974		M		ZMMU	100257
RUS	RUS WBS Commander Is.	1974		M		TINR	N4
RUS	RUS WBS Commander Is.	1974		F		TINR	N2
RUS	RUS WBS Commander Is.	1974		M		TINR	N5
RUS	RUS WBS Commander Is.	1974		M		TINR	263
RUS	RUS HOK Kuril Is.: Lovushki I.	1975	September	M	7	TINR	15
RUS	RUS HOK Kuril Is.: Shiashkotan I.	1975		F	8	TINR	110
RUS	RUS HOK Kuril Is.	1975		M		TINR	135
RUS	RUS HOK Kuril Is.	1975		M		TINR	20112
RUS	RUS HOK Kuril Is.	1975		M		TINR	20114
RUS	RUS HOK Kuril Is.	1975		M		TINR	20332
RUS	RUS HOK Kuril Is.	1975		M		TINR	20351
RUS	RUS HOK Kuril Is.	1975		M		TINR	20354
RUS	RUS HOK Kuril Is.	1975		M		TINR	20442
RUS	RUS HOK Kuril Is.	1975		M		TINR	20443
RUS	RUS HOK Kuril Is.	1975		M		TINR	20447
RUS	RUS HOK Kuril Is.	1975		M		TINR	20451
RUS	RUS HOK Kuril Is.	1975		F		TINR	20454
RUS	RUS HOK Kuril Is.	1975		F		TINR	20459
RUS	RUS HOK Kuril Is.	1975		F		TINR	20460
RUS	RUS HOK Kuril Is.	1975		F		TINR	20467
RUS	RUS HOK Kuril Is.	1975		F		TINR	N1
RUS	WBS Bering Sea (western)	1981	April	M		NMML	1661

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
RUS	RUS HOK Kuril Is: Kurashir I.	1985	August			ZIN	32196
RUS	RUS HOK Kuril Is.: Ketoy	1989	July	M		NMMML	1344
RUS	RUS HOK Kuril Is.: Ketoy	1989	July	M		NMMML	1345
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1346
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1347
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1348
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1349
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1350
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1351
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1352
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1353
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1354
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1355
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1356
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	July	F		NMMML	1357
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	June	F		NMMML	1343
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	June	F		NMMML	1342
RUS	RUS HOK Kuril Is.: Lovushki: Dolgoi	1989	June	F		NMMML	1341
RUS	RUS HOK Kuril Is.: Srednego (Khitraya)	1989	May	F		TINR	-
RUS	RUS HOK Kuril Is.					ZIN	27200
RUS	RUS Sea of Okhotsk: Zavjalova I.					ZIN	9484
RUS	RUS WBS Commander Is.			M		NMMNH	A22071
RUS	RUS WBS Commander Is.: Bering I.			M		NMMNH	A22072
RUS	RUS WBS Commander Is.: Bering I.			M		NMMNH	A22077
RUS	RUS WBS Commander Is.: Bering I.			M		MNHU	2782
RUS	RUS WBS Kamchatka			F		NAT	13440
USA	AK Aleutian Is.					ZIN	728
USA	AK AK-5 Insel Unalaschka					NAT	13441
USA	AK AK-8 Pribilof Is.: St. George I.	1853				NMNH	11225
USA	AK AK-8 Pribilof Is.: St. Paul I.	1860				MNHU	72815
USA	AK AK-8 Pribilof Is.: St. Paul I.	1864	November			NMNH	13157
USA	AK AK-8 Pribilof Is.: St. Paul I.	1869				NMNH	A16309
USA	AK AK-8 Pribilof Is.: St. Paul I.	1872				NMNH	188985
USA	AK AK-8 Pribilof Is.: St. Paul I.	1879	August			CAS	9045
USA	AK AK-8 Pribilof Is.: St. Paul I.	1879				ZIN	744
USA	AK AK-5 Insel Unalaschka	1882					
USA	AK AK-8 Pribilof Is.: St. Paul I.	1884					
USA	AK AK-8 Pribilof Is.: St. Paul I.	1886					

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	AK	AK-5 Insel Unalaschka	1886				ZIN	746
USA	AK	AK-8 Pribilof Is.	1890	June	M		NMNH	A34835
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1890	May	M		NMNH	A34836
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1891	August	M		NMNH	188981
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1892	August	M	juvenile	NMNH	188982
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1892			juvenile	NMNH	188983
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1892				NMNH	188984
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1896	July	F		CAS	16110
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1896		M	adult	MNHU	70692
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1896				NMNH	83887
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1897				NHM	1897.2.17.1
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1897		M		NHM	1897.1.18.5
USA	AK	AK-8 Pribilof Is.: St. George I.	1897		F		NHM	1897.1.18.7
USA	AK	AK-8 Pribilof Is.: St. George I.	1897				NHM	1897.1.18.8
USA	AK	AK-8 Pribilof Is.: St. George I.	1899	July	F	juvenile	NMNH	98070
USA	AK	AK-5 Aleutian Is.: Bogoslof I.	1902	July	M		NMNH	114830
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1904		M		NMNH	133235
USA	AK	AK-3 Seldovia	1905				NHM	1905.11.8.1
USA	AK	AK-1 Barrier I.	1908				NMNH	154013
USA	AK	AK-8 Togiak Bay	1911				NMNH	202705
USA	AK	AK-4 Nagai/Shumagin Is.	1912	June			MNHU	37702
USA	AK	AK-5 Aleutian Is.: Bogoslof I.	1913	June			CMNH	21005
USA	AK	AK-8 Pribilof Is.	1914	September			NMNH	199611
USA	AK	AK-1 Hawk Inlet	1915	August			NMNH	211101
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1916				NMS	
USA	AK	AK-1 Chichagof I.: Port Frederick	1917	spring	M		NMNH	229226
USA	AK-1	Sitka	1918	April	M		NMNH	228877
USA	AK-1	Kruzof Island: Mount Edgecombe	1919				CAS	233505
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1920				CAS	3683
USA	AK	AK-8 Pribilof Is.: St. Paul I.	1920				CAS	3684
USA	AK	AK-8 Pribilof Is.	1923	June			NMNH	239368
USA	AK	AK-3 Kodiak I.	1930				NMNH	256492
USA	AK	AK-3 Kodiak I.: Chiniak Cape	1931	July			ANSP	14400
USA	AK	AK-3 Kodiak I.: Chiniak Cape	1931	July			ANSP	14424
USA	AK	AK-5 Aleutian Is.: Unalaska I.: Dutch Harbor	1936	summer	M		NMNH	261229

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	AK AK-6 Aleutian Is.: Little Kiska I.	1936	summer			NMNH	261231
USA	AK AK-7 Aleutian Is.: Attu I.	1936	summer			NMNH	261230
USA	AK AK-6 Aleutian Is.: Kagamil I.	1937	summer			NMNH	267526
USA	AK AK-5 Aleutian Is.: Bogoslof I.	1938	August	M		NMNH	270971
USA	AK AK-8 Pribilof Is.: St. Paul I.	1940	July	M		NMNH	270972
USA	AK AK-8 Pribilof Is.: St. Paul I.	1940	July	M		NMNH	270973
USA	AK AK-8 Pribilof Is.: St. Paul I.	1941	November	M		NMNH	270969
USA	AK AK-8 Pribilof Is.: St. Paul I.	1941	September	M		NMNH	270970
USA	AK AK-8 Pribilof Is.: St. Paul I.	1944	June	M	neonate	NMNH	276038
USA	AK AK-8 Pribilof Is.: St. Paul I.	1944	June	M	neonate	NMNH	276039
USA	AK AK-8 Pribilof Is.: St. Paul I.	1944	June	M	juvenile	NMNH	276361
USA	AK AK-8 Pribilof Is.: St. Paul I.	1944	May	F	neonate	NMNH	276037
USA	AK AK-8 Pribilof Is.: St. Paul I.	1946	July	M	adult	NMNH	276031
USA	AK AK-8 Pribilof Is.: St. Paul I.	1947	August	F		NMNH	276207
USA	AK AK-8 Pribilof Is.: St. Paul I.	1947	July	F		NMNH	276040
USA	AK AK-8 Pribilof Is.: St. Paul I.	1947	July	F		NMNH	276208
USA	AK AK-8 Pribilof Is.: St. Paul I.	1947	June	M	1	NMML	317
USA	AK AK-8 Pribilof Is.: St. Paul I.	1947	September	M	pup	NMNH	276036
USA	AK AK-8 Pribilof Is.: St. Paul I.	1947	July	M	adult	NMNH	276354
USA	AK AK-8 Pribilof Is.: St. Paul I.	1948	July	F		NMNH	276209
USA	AK AK-8 Pribilof Is.: St. Paul I.	1948	July	F		NHM	1950.3.29.9
USA	AK AK-8 Pribilof Is.: St. Paul I.	1948	August	M	yearling	NMNH	285747
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	July	F		NHM	1950.3.29.10
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	July	F		NHM	1950.3.29.12
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	July	F		NHM	1950.3.29.11
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	June	M	adult	NMNH	285509
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	June	M	juvenile	NMNH	285505
USA	AK AK-8 Pribilof Is.: St. George I.	1949	July	F		NMNH	285507
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	July	F		NMNH	285508
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	June	M	subadult	NMNH	285506
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	June	M	yearling	NMNH	316
USA	AK AK-8 Pribilof Is.: St. Paul I.	1949	June	M	adult	NMML	318
USA	AK AK-8 Pribilof Is.: St. Paul I.	1950	June	F	adult	MVZ	113626
USA	AK AK-8 Pribilof Is.: St. Paul I.	1950	June	M	neonate	UWBM	19896
USA	AK AK-8 St. Lawrence I.	1951				UPS	3203

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA AK	AK-8 Pribilof Is.: St. Paul I.	1952	August	F	1-2	NMMML	319
USA AK	AK-3 Kodiak I.: Uyak Bay: 2 mi NE Uyak	1953	May			UMMZ	103351
USA AK	AK-8 St. Lawrence I.	1953	August	M	adult	UBC	4502
USA AK		1953	June	M	neonate	UAM	1531
USA AK		1953	June	F	yearling	UAM	1532
USA AK		1953	June	M	neonate	UWBM	1528
USA AK		1954	June	F	neonate	UWBM	51174
USA AK	AK-8 Pribilof Is.: St. Paul I.	1954	June	F	adult	WSU	51175
USA AK	AK-3 Cape Barnabas: Sitkalidak I.	1955	June	M	adult	WSU	55-382
USA AK	AK-3 Cape Barnabas: Sitkalidak I.	1955	June	M	adult	WSU	55-383
USA AK	AK-3 Cape Barnabas: Sitkalidak I.	1955	June	M	adult	WSU	55-384
USA AK	AK-3 Cape Barnabas: Sitkalidak I.	1955	June	M	fetus	WSU	55-381
USA AK	AK-3 Cape Barnabas: Sitkalidak I.	1955	June	F	yearling	WSU	55-380
USA AK	AK-8 St. Lawrence I.: Stolbi Rocks	1955	July	F	juvenile	UPS	4982
USA AK		1956	July	M	adult	UAM	11502
USA AK		1956	July	M	adult	UAM	4233
USA AK	AK-4 Shumagin Is.: Atkin I.	1957	August	F	neonate	UWBM	32571
USA AK		1957	July	M	1	NMMML	11508
USA AK	AK-3 Walrus Is.: (55 35 N, 160 18 W)	1958	June	M	15	NMMML	365
USA AK	AK-3 Walrus Is.: (55 35 N, 160 18 W)	1958	June	M	1	NMMML	364
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	F	1	NMMML	321
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	2	NMMML	337
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	5	NMMML	351
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	7	NMMML	354
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	8	NMMML	341
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	9	NMMML	326
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	9	NMMML	345
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	9	NMMML	350
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	9	NMMML	361
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	F	10	NMMML	322
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	10	NMMML	325
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	11	NMMML	335
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	11	NMMML	336
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	M	11	NMMML	346
USA AK	AK-4 Shumagin Is.: Chernabura I.	1958	July	F	11	NMMML	348

Cat. no.	Collection	Age	Sex	Season	Year	Locality details	Locality		Age	Sex	Season	Year	Locality details
							Lat	Long					
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	11	NMMML	356
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	12	NMMML	333
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	M	12	NMMML	342
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	M	12	NMMML	360
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	13	NMMML	347
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	13	NMMML	357
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	14	NMMML	331
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	14	NMMML	332
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	M	15	NMMML	349
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	M	15	NMMML	359
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	15	NMMML	363
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	16	NMMML	320
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	17	NMMML	344
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	18	NMMML	353
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	M	19	NMMML	352
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	F	20	NMMML	334
USA	AK	AK-4	Shumagin Is.: Chernabura I.	July	1958	AK	AK-4	Shumagin Is.: Chernabura I.	July	M	~1 month	NMMML	340
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	M	3	NMMML	330
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	M	3	NMMML	358
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	F	9	NMMML	324
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	M	9	NMMML	329
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	M	10	NMMML	338
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	F	10	NMMML	355
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	M	11	NMMML	328
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	F	12	NMMML	323
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	F	12	NMMML	339
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	M	13	NMMML	327
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	F	16	NMMML	343
USA	AK	AK-4	Shumagin Is.: Chernabura I.	June	1958	AK	AK-4	Shumagin Is.: Chernabura I.	June	F	18	NMMML	362
USA	AK	AK-1	Alexander Archipelago: Dall I.	March	1958	AK	AK-3	Afognak I.: Tonki Cape: 6 mi E	1960	M	UAM	5011	8655
USA	AK	AK-3	Afognak I.: Tonki Cape: 6 mi E	March	1958	AK	AK-3	Marmot I. (Gulf of)	1960	F	DMNS	369	368
USA	AK	AK-3	Marmot I.: Marmot Cape: 14 mi E	March	1958	AK	AK-3	Marmot I.: Marmot Cape: 14 mi E	1960	F	NMMML	370	373
USA	AK	AK-4	Bering Sea: Amak I.	July	1960	AK	AK-4	Bering Sea: Amak I.	July	F	fetus	1	1

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA AK	AK-4 Bering Sea; Amak I.	1960	July	M	~6 months	NMML	377
USA AK	AK-4 Bering Sea; Amak I.	1960	July	F	5	NMML	378
USA AK	AK-4 Little Koniuji I. (Gulf of); 2 mi S	1960	June	M	4	NMML	372
USA AK	AK-4 Simeonof I. (Gulf of); 8 mi E (54°54' N, 158°58'	1960	June	F	3	NMML	371
USA AK	AK-5 Unimak Pass (54°23' N, 165°23' W)	1960	July	M	3	NMML	375
USA AK	AK-5 Unimak Pass (54°27' N, 165°34' W)	1960	July	M	3	NMML	374
USA AK	AK-8 Pribilof Is.; St. Paul I.	1960	July			LACM	52330
USA AK	AK-8 Pribilof Is.; Walrus I.	1960	July	M	~1 month	NMML	376
USA AK		1960	September	M	adult	UAM	11507
USA AK		1961	September	M	first year	UAM	11505
USA AK		1962	June	F	2	NMML	383
USA AK	AK-5 Unimak Pass (54°15' N, 165°12' W)	1962	June	M	2	NMML	381
USA AK	AK-5 Unimak Pass (54°19' N, 164°35' W)	1962	June	F	4	NMML	384
USA AK	AK-5 Unimak Pass (54°23' N, 165°24' W)	1962	June	M	2	NMML	382
USA AK	AK-5 Unimak Pass (54°25' N, 165°03' W)	1962	June	F	5	NMML	380
USA AK	AK-5 Unimak Pass (54°11' N, 165°02' W)	1962	May			NMML	392
USA AK	AK-5 Unimak Pass (54°09' N, 164°25' W)	1962	September	M	2	NMML	386
USA AK	AK-5 Unimak Pass (54°14' N, 164°45' W)	1962	September	F	1	NMML	387
USA AK	AK-5 Unimak Pass (54°15' N, 164°47' W)	1962	September	F	2	NMML	391
USA AK	AK-5 Unimak Pass (54°15' N, 164°55' W)	1962	September	M	1	NMML	390
USA AK	AK-5 Unimak Pass (54°17' N, 165°19' W)	1962	September	M	3	NMML	385
USA AK	AK-5 Unimak Pass (54°21' N, 165°15' W)	1962	September	F	2	NMML	ADFG&G SL 24
USA AK	AK-3 Barren Is.; Sugarloaf I.	1964	June			NMML	ADFG&G SL 29
USA AK	AK-3 Barren Is.; Sugarloaf I.	1964	June			NMML	
USA AK	AK-5 Bering Sea (54°00' N, 166°28' W)	1964	September	F		NMML	389
USA AK	AK-8 Bering Sea; Walrus I.; 54 mi E	1964	August	M		NMML	388
USA AK	AK-8 Pribilof Is.; Walrus I.	1965	June	M	pup	NMML	396
USA AK	AK-8 Pribilof Is.; Walrus I.	1965	June	F	pup	NMML	397
USA AK	AK-8 Pribilof Is.; nr. St. Paul I.	1965	November	M		NMML	394
USA AK	AK-8 Pribilof Is.; nr. St. Paul I.	1965	November	M	~5 months	UAM	11510
USA AK		1965	July	M	1	UAM	11509
USA AK		1966	May	F	first year	NMML	398
USA AK		1966	May	M	neonate	UPS	19187
USA AK	AK-5 Aleutian Is.; Bogoslof I.	1968				UPS	14041
USA AK	AK-6 Aleutian Is.; Adak I.	1969				UPS	14040
USA AK	AK-8 Pribilof Is.; St. George I.	1971					
USA AK	AK-8 Pribilof Is.; St. George I.; Sea Lion Pt.	1971					

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA AK	AK-2 Prince William Sd.: The Needle	1971	April	F	adult	UAM	11636
USA AK	AK-2 Prince William Sd.: The Needle	1971	April	M	fetus	UAM	41945
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1974	July	M	adult	UAM	11470
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1974	July	F	first year	UAM	11504
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	April	M	2	NMML	ADFG&G SL-13-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	April	M	3	NMML	ADFG&G SL-12-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	March	M	1	NMML	ADFG&G SL-4-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	March	M	3	NMML	ADFG&G SL-5-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	March	M	3	NMML	ADFG&G SL-6-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	March	M	3	NMML	ADFG&G SL-8-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	March	M	4	NMML	ADFG&G SL-10-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	March	M	4	NMML	ADFG&G SL-11-75
USA AK	AK-2 Prince William Sd.: Prince of Wales Pass	1975	March	M	5	NMML	ADFG&G SL-9-75
USA AK	AK-2 Prince William Sd.: Pleiades I.	1975	November	M	7	NMML	ADFG&G SL-3-75
USA AK	AK-2 Prince William Sd.: Montague Pt.	1975	October	M	3	NMML	ADFG&G SL-1-75
USA AK	AK-2 Prince William Sd.: Montague Pt.	1975	October	F	adult	CAS	21754
USA AK	AK-2 Cordova	1975		M	5	NMML	ADFG&G SL-15-75
USA AK	AK-2 Prince William Sd.	1975		M	2.5	NMML	ADFG&G SL-PWS-5-75
USA AK	AK-3 Kodiak I. (near Gulf of) (56°42'N, 152°15'W)	1975	February	F	fetus	UPS	395
USA AK	AK-6 52°18'N, 173°50'W	1975	January	F	fetus	UPS	25979
USA AK	AK-6 52°28'N, 173°58'W	1975	January	F	fetus	UPS	25978
USA AK	AK-6 Aleutian Is.: Atka I.: Cape Shaw	1975	January	F		SDM	20116
USA AK		1975	July	M		UAM	23174
USA AK		1975		F		NMML	37032
USA AK	AK-2 Kenai Peninsula Borough: Chiswell I.	1976	April	F	2	NMML	1525
USA AK	AK-2 Kenai Peninsula Borough: Chiswell I.	1976	April	F	2	NMML	1526
USA AK	AK-2 Middleton I. (59°26.5'N, 146°20.0'W)	1976	May	F	3	NMML	1529
USA AK	AK-2 Middleton I. (59°26.5'N, 146°20.0'W)	1976	May	F	4	NMML	1528
USA AK	AK-3 Kodiak I.: Latax Rocks	1976	April	F	2	NMML	1527
USA AK	AK-3 Kodiak I.: Cape Ugak	1976	February	F	3	NMML	1524
USA AK	AK-3 Kodiak I.: Cape Ugak	1976	February	F	12	NMML	1523
USA AK	AK-3 Kodiak I.: Cape Ugak	1976	February	M	2	NMML	1579
USA AK	AK-3 Barren Is.: Sugarloaf I.	1976	October	F	2	NMML	1540
USA AK	AK-3 Chirikof I. (55°46.5'N, 155°39.5'W)	1976	October	F	1	NMML	1534
USA AK	AK-3 Chirikof I. (55°46.5'N, 155°39.5'W)	1976	October	F	2	NMML	1533

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	AK AK-3 Chirikof I. (55.46.5 N, 155.39.5 W)	1976	October	F	20	NMML	1532
USA	AK AK-3 Kodiak I.: Marmot I. (58.14.0 N, 151.47.5 W)	1976	October	F	1	NMML	1537
USA	AK AK-3 Kodiak I.: Marmot I. (58.14.0 N, 151.47.5 W)	1976	October	F	1	NMML	1543
USA	AK AK-3 Kodiak I.: Marmot I. (58.14.0 N, 151.47.5 W)	1976	October	F	4	NMML	1539
USA	AK AK-3 Kodiak I.: Marmot I. (58.14.0 N, 151.47.5 W)	1976	October	F	8	NMML	1538
USA	AK AK-3 Kodiak I.: Marmot I. (58.14.0 N, 151.47.5 W)	1976	October	F	13	NMML	1536
USA	AK AK-3 Kodiak I.: Marmot I. (58.14.0 N, 151.47.5 W)	1976	October	F	15	NMML	1542
USA	AK AK-3 Kodiak I.: Marmot I. (58.14.0 N, 151.47.5 W)	1976	October	F	2	NMML	1531
USA	AK AK-3 Kodiak I.: Sea Otter I.	1976	October	F	2	NMML	1541
USA	AK AK-3 Kodiak I.: Sea Otter I.	1976	October	F	3	NMML	1535
USA	AK AK-3 Kodiak I.: Sea Otter I.	1976	October	F	11	NMML	21756
USA	AK AK-3 Marmot I. (Gulf of)	1976	October	F	adult	CAS	1530
USA	AK AK-3 Semidi Is.: Chowiet I.	1976	October	F	2	NMML	21812
USA	AK AK-3 Katmai National Monument: Hallo Bay	1976	September	M		UPS	21813
USA	AK AK-3 Katmai National Monument: Hallo Bay	1976	September	M		UPS	1294
USA	AK AK-5 Aleutian Is.: Bogoslof I.	1976	October	M		NMML	ADFG&G SUV-1-76
USA	AK AK-5 Aleutian Is.: Bogoslof I.	1976	October	M		NMML	ADFG&G SUV-2-76
USA	AK AK-8 Bering Sea (eastern)	1976	March	F		NMML	ADFG&G SUV-4-76
USA	AK AK-8 Bering Sea (eastern)	1976	March	M		NMML	ADFG&G SUV-5-76
USA	AK AK-8 Bering Sea (eastern)	1976	March	M		NMML	ADFG&G SUV-25-76
USA	AK AK-2 Cape St. Elias (Gulf of)	1977	April	M		NMML	DF&G CSE # 3 4-21-7
USA	AK AK-2 Prince William Sd. (Gulf of): Goose Is.	1977	February	F	4	NMML	1544
USA	AK AK-2 Prince William Sd. (Gulf of): Goose Is.	1977	February	F	4	NMML	1545
USA	AK AK-2 Prince William Sd. (Gulf of): Port Fidalgo	1977	February	F	4	NMML	1547
USA	AK AK-2 Prince William Sd. (Gulf of): Port Fidalgo	1977	February	F	4	NMML	1548
USA	AK AK-2 Prince William Sd. (Gulf of): Port Fidalgo	1977	February	F	4	NMML	1580
USA	AK AK-2 Prince William Sd. (Gulf of): Port Fidalgo	1977	February	F	5	NMML	1546
USA	AK AK-2 Prince William Sd. (Gulf of): Port Fidalgo	1977	February	F	5	NMML	1581
USA	AK AK-2 Prince William Sd. (Gulf of): Port Fidalgo	1977	February	F	12	NMML	1549
USA	AK AK-2 Prince William Sd.: Port Fidalgo	1977	February	F	7	NMML	1296
USA	AK AK-2 Cape St. Elias (Gulf of): Kayak I.	1977	March	F	8	NMML	1572
USA	AK AK-2 Cape St. Elias (Gulf of): Kayak I.	1977	March	F	2	NMML	1573
USA	AK AK-2 Kenai Peninsula Borough: Aialik Cape	1977	March	F	3	NMML	1582
USA	AK AK-2 Kenai Peninsula Borough: Aialik Cape	1977	March	F			1555

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	AK AK-2 Kenai Peninsula Borough: Aialik Cape	1977	March	F	8	NMML	1556
USA	AK AK-2 Prince William Sd. (Gulf of): Pleiades Is.	1977	March	F	2	NMML	1550
USA	AK AK-2 Cape St. Elias (Gulf of): Kayak I.	1977	May	M	5	NMML	1299
USA	AK AK-2 Prince William Sd. (Gulf of)	1977	November	M	14	NMML	1568
USA	AK AK-2 Prince William Sd. (Gulf of): Chenega I.	1977	November	F	8	NMML	1566
USA	AK AK-2 Prince William Sd. (Gulf of): Glacier I.	1977	November	F	4	NMML	1565
USA	AK AK-2 Prince William Sd. (Gulf of): Glacier I.	1977	November	M	5	NMML	1298
USA	AK AK-2 Prince William Sd. (Gulf of): Glacier I.	1977	November	M	4	NMML	1569
USA	AK AK-2 Prince William Sd. (Gulf of): Goose Is.	1977	November	M	5	NMML	1567
USA	AK AK-2 Prince William Sd. (Gulf of): Pleiades Is.	1977	November	F	2	NMML	1571
USA	AK AK-2 Prince William Sd. (Gulf of): Pt. Eleanor	1977	November	M	3	NMML	1570
USA	AK AK-2 Prince William Sd. (Gulf of): Pt. Eleanor	1977	February	F	4	NMML	ADFG FW-1-77
USA	K-2 or Kenai Peninsula: Resurrection Bay	1977	February	F	1	NMML	ADFG FW-2-77
USA	K-2 or Kenai Peninsula: Resurrection Bay	1977	February	F	16	NMML	
USA	AK AK-3 Kodiak Archipelago	1977	April	F	18	NMML	1552
USA	AK AK-3 Kodiak I. (Gulf of)	1977	April	F	21	NMML	1554
USA	AK AK-3 Outer (Pye) I. (Gulf of)	1977	March	M	1	NMML	1297
USA	AK AK-3 Outer (Pye) I. (Gulf of)	1977	March	F	18	NMML	1553
USA	AK AK-3 Outer (Pye) I. (Gulf of)	1977	March	F	21	NMML	1551
USA	AK AK-3 Outer (Pye) I. (Gulf of)	1977	March	M	2	NMML	1588
USA	AK AK-3 Barren Is.: Sugarloaf I.	1977	May	M	11	NMML	1559
USA	AK AK-3 Barren Is.: Sugarloaf I.	1977	May	F	9	NMML	1560
USA	AK AK-3 Kodiak Archipelago	1977	May	F	3	NMML	1584
USA	AK AK-3 Kodiak Archipelago: Kodiak I.: Barnabus	1977	May	F	11	NMML	1583
USA	AK AK-3 Kodiak Archipelago: Kodiak I.: Barnabus	1977	May	F	2	NMML	1591
USA	AK AK-3 Kodiak Archipelago: Kodiak I.: Cape Chiniak	1977	May	F	5	NMML	1590
USA	AK AK-3 Kodiak Archipelago: Kodiak I.: Cape Chiniak	1977	May	F	6	NMML	1589
USA	AK AK-3 Kodiak I.: Latax Rocks	1977	May	F	10	NMML	1561
USA	AK AK-3 Kodiak I.: Marmot I.	1977	May	F	4	NMML	1564
USA	AK AK-3 Kodiak I.: Marmot I.	1977	May	F	6	NMML	1563
USA	AK AK-3 Kodiak I.: Marmot I.	1977	May	F	13	NMML	1562
USA	AK AK-3 Kodiak I.: Sea Otter I.	1977	May	M	3	NMML	1558
USA	AK AK-3 Kodiak I.: Sea Otter I.	1977	May	M	3	NMML	1587
USA	AK AK-3 Kodiak I.: Sea Otter I.	1977	May	F	7	NMML	1585
USA	AK AK-3 Kodiak I.: Sea Otter I.	1977	May	F	10	NMML	1586

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA AK	AK-3 Marmot I. (Gulf of)		1977	May	F	adult	CAS	21755
USA AK	AK-2 Cape St. Elias (Gulf of)		1977				NMMML	1592
USA AK	AK-3 Alaska Peninsula: Wide Bay-Cape Douglas		1977				NMMML	ADF&G SL-11-75?
USA AK	AK-3 Alaska Peninsula: Wide Bay-Cape Douglas		1978				NMMML	DF&G SL-135-75(77?)
USA AK	AK-3 Kodiak Archipelago: Two-headed Is.		1978	April	M	3	NMMML	ADF&G CSE-117-78
USA AK	AK-3 Barren Is.: Sugarloaf I.		1978	April	F	7	NMMML	1575
USA AK	AK-3 Barren Is.: Sugarloaf I.		1978	August	M	4	NMMML	1574
USA AK	3, -4, c Alaska Peninsula: Wide Bay-Unimak Pass		1978		F		NMMML	1577
USA AK	AK-3 Kodiak Archipelago: Marmot I.		1978	June	M		NMMML	ADF&G
USA AK	AK-3 Kodiak Archipelago: Marmot I.		1978	April	F	7	NMMML	ADF&G
USA AK	AK-3 Kodiak Archipelago: Marmot I.		1982	March	F	6.8	UAM	18552
USA AK	AK-3 Kodiak Archipelago: Marmot I.		1982	March	F		NMMML	ADF&G SL-2-82
USA AK	AK-3 Kodiak Archipelago: Marmot I.		1982	March	F		NMMML	ADF&G SL-3-82
USA AK	AK-3 Kodiak Archipelago: Marmot I.		1982	March	F		NMMML	ADF&G SL-5-82
USA AK	AK-3 Kodiak Peninsula: Marmot I.		1982	March	F		NMMML	ADF&G SL-9-82
USA AK	AK-3 Marmot I.		1982	March	M		NMMML	ADF&G SL-1-82
USA AK	AK-3 Marmot I.		1982	March	F		NMMML	ADF&G SL-6-82
USA AK	AK-3 Marmot I.		1982	March	M		NMMML	ADF&G SL-7-82
USA AK	AK-3 Marmot I.		1982	March	M		NMMML	ADF&G SL-8-82
USA AK	AK-5 Aleutian Is.: Krenitzin Is.: Akutan I.		1982	October	F		NMMML	1302
USA AK	AK-5 Aleutian Is.: Krenitzin Is.: Akutan I.		1982	October	M		NMMML	1300
USA AK	AK-5 Aleutian Is.: Krenitzin Is.: Akutan I.		1982	October	M		NMMML	1301
USA AK	AK-3 Shelikof Strait (Gulf of)		1983	March	M	3	NMMML	1306
USA AK	AK-8 Pribilof Is.: St. Paul I.: Northeast Pt.		1983	May	M		NMMML	1303
USA AK	AK-8 Pribilof Is.: St. Paul I.: Pobvania (sp?) Sands		1983	May	M		NMMML	1304
USA AK	AK-8 Pribilof Is.: St. Paul I.: Zapadni Bay		1983	May	M		NMMML	1305
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	February	M		NMMML	1307
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	February	F		NMMML	1309
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	March	F		NMMML	1308
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	March	F		NMMML	1310
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	March	F		NMMML	1311
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	March	F		NMMML	1312
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	March	F		NMMML	1313
USA AK	AK-3 Shelikof Strait (Gulf of)		1984	March	F		NMMML	1314

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	M		NMMML	1315
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	F		NMMML	1316
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	F		NMMML	1317
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	F		NMMML	1318
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	F		NMMML	1319
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	F		NMMML	1320
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	F		NMMML	1321
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	March	M		NMMML	1322
USA	AK AK-3 Shelikof Strait (Gulf of)	1984	October	F	7	NMMML	1631
USA	AK AK-3 Shelikof Strait (Gulf of)	1985	October	F	6	NMMML	1630
USA	AK AK-3 Kodiak Archipelago: Izhut Bay	1985	October	F	4	NMMML	1632
USA	AK AK-3 Kodiak I.: Marmot I.	1985	October	F	10	NMMML	1633
USA	AK AK-3 Kodiak I.: Sea Otter I.	1985	August	F		UWBM	34119
USA	AK AK-7 Aleutian Is.: Attu I.	1985	March	M	2	NMMML	1639
USA	AK AK-8 Bering Sea (59 22.3 N, 172 50.9 W)	1985	March	M	4	NMMML	1637
USA	AK AK-8 Bering Sea (59 22.3 N, 172 50.9 W)	1985	March	M	4	NMMML	1638
USA	AK AK-8 Bering Sea (59 22.3 N, 172 50.9 W)	1985	March	M	10	NMMML	1636
USA	AK AK-8 Bering Sea (59 22.3 N, 172 50.9 W)	1985	March	M	11	NMMML	1635
USA	AK AK-8 Bering Sea (59 36.9 N, 172 50.6 W)	1985	May	M	12	NMMML	1634
USA	AK AK-1 Alexander Archipelago: Timbered I.	1986	March	F	adult	UWBM	64001
USA	AK AK-2 Cape Saint Elias: SW end of Kayak I.	1987	March	F	adult	UWBM	4038
USA	AK AK-2 Cape Saint Elias: SW end of Kayak I.	1987	March	F	fetus	UWBM	39481
USA	AK AK-2 Cape Saint Elias: SW end of Kayak I.	1987	May	F	adult	UAM	39483
USA	AK AK-6 Aleutian Is.: Andreanof Is.	1987				UAM	39482
USA	AK AK-8 Pribilof Is.: St. Paul I.	1988	July	F	adult	UWBM	24092
USA	AK K-2 or Kenai Peninsula: Blying Sd.-Gore Pt.	1989	spring-summer	M		UAM	31946
USA	AK K-2 or Kenai Peninsula: Blying Sd.-Gore Pt.	1989	spring-summer	F		UAM	31947
USA	AK K-2 or Kenai Peninsula: Blying Sd.-Gore Pt.	1989	June	M	adult	UAM	23417
USA	AK	1989	June	M	adult	UAM	31951
USA	AK	1993	May	M	adult	UAM	33980
USA	AK	1993	May	M	adult	UAM	31916
USA	AK	1994	May	F	adult	UAM	32730
USA	AK	1994	May	M	juvenile	UAM	

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	AK	1994	October	M	juvenile	UAM	32731
USA	AK	1994	October	M		UAM	30175
USA	AK	1994	October	M		UAM	30176
USA	AK	1994	October	F		UAM	30177
USA	AK	1994	October	M		UAM	30178
USA	AK	1994	October	M		UAM	30179
USA	AK	1994	October	M		UAM	30180
USA	AK	1994	October	M		UAM	30181
USA	AK	1994	October	M		UAM	32732
USA	AK	1994	October	M		UAM	32733
USA	AK	1994	October	M		UAM	24982
USA	AK	1994	October	F		UAM	31948
USA	AK	1994	October	M		UAM	31949
USA	AK	1994	October	M		UAM	31952
USA	AK	1994	October	M		UAM	31965
USA	AK	1994	October	M		UAM	33979
USA	AK	1994	October	M		UAM	33981
USA	AK	1994	winter	M		UAM	35426
USA	AK	1994	winter	F		UAM	31904
USA	AK	1994	winter	M		UAM	31953
USA	AK	1995	April	M		UAM	31954
USA	AK	1995	April	M		UAM	43375
USA	AK	1995	August	F		UAM	30426
USA	AK	1995	February	M		UAM	31950
USA	AK	1995	March	M		UAM	31955
USA	AK	1995	May	M		UAM	31956
USA	AK	1995	May	M		UAM	31957
USA	AK	1995	May	M		UAM	31958
USA	AK	1995	May	M		UAM	31959
USA	AK	1995	May	M		UAM	31960
USA	AK	1995	May	M		UAM	31961
USA	AK	1995	May	M		UAM	31962
USA	AK	1995	May	M		UAM	31963
USA	AK	1995	November	M		UAM	43371
USA	AK	1995	September	M		UAM	44534

AK-2 Prince William Sd.

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	April	M	F	UAM	43365
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	April	F	M	UAM	43368
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	February	M	M	UAM	43367
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	February	M	F	UAM	43369
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	January	F	M	UAM	43381
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	January	M	M	UAM	44533
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1996	June	F	F	UAM	41596
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1996	June	F	F	UAM	41597
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1996	June	M	M	UAM	41598
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1996	June	F	F	UAM	41599
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	March	M	M	UAM	43372
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	March	F	M	UAM	43373
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	March	M	M	UAM	43374
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	May	M	M	UAM	43370
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	May	M	M	UAM	43366
USA AK	AK-5 Aleutian Is.; Fox Is.	1996	April	M	M	UAM	47295
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	April	F	F	UAM	51656
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	April	F	F	UAM	51657
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	April	M	M	UAM	52246
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1997	February	M	M	UAM	44535
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	April	F	F	UAM	47293
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	April	F	F	UAM	47298
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	April	M	M	UAM	47302
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	January	M	M	UAM	47294
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	March	M	M	UAM	47296
USA AK	AK-5 Aleutian Is.; Fox Is.	1997	March	M	M	UAM	47290
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1997	May	F	M	UAM	47291
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1997	May	M	M	UAM	47292
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1997	May	M	M	UAM	47297
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1997	May	M	M	UAM	47305
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1997	May	M	M	UAM	47306
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1998	February	M	M	UAM	79781
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1998	February	F	F	UAM	79783
USA AK	AK-6 Aleutian Is.; Andreanof Is.	1998	January	F	F	UAM	79788

Cat. no.	Locality details	Localities	Year	Season	Sex	Age	Collection	UAM	79789
									AK-2 Prince William Sd.
U.S.A.	AK	U.S.A.	1998	January	M	W	UAM	UAM	56101
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	56102
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	56103
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	56104
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	56105
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	56106
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	79777
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	79780
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	79786
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	79787
U.S.A.	AK	U.S.A.	1998	May	M	W	UAM	UAM	72009
U.S.A.	AK	U.S.A.	1998	October	M	W	UAM	UAM	70597
U.S.A.	AK	U.S.A.	1999	April	M	W	UAM	UAM	72007
U.S.A.	AK	U.S.A.	1999	April	M	W	UAM	UAM	79778
U.S.A.	AK	U.S.A.	1999	March	M	W	UAM	UAM	56073
U.S.A.	AK	U.S.A.	1999	May	M	W	UAM	UAM	70789
U.S.A.	AK	U.S.A.	1999	May	M	W	UAM	UAM	70790
U.S.A.	AK	U.S.A.	1999	May	M	W	UAM	UAM	83391
U.S.A.	AK	U.S.A.	1999	October	M	W	UAM	UAM	62412
U.S.A.	AK	U.S.A.	1999	October	M	W	UAM	UAM	62414
U.S.A.	AK	U.S.A.	1999	October	M	W	UAM	UAM	62411
U.S.A.	AK	U.S.A.	1999	October	F	W	UAM	UAM	62413
U.S.A.	AK	U.S.A.	1999	October	F	W	UAM	UAM	72008
U.S.A.	AK	U.S.A.	1999	March	M	W	UAM	UAM	72011
U.S.A.	AK	U.S.A.	2000	October	M	W	UAM	UAM	62410
U.S.A.	AK	U.S.A.	2000	October	M	W	UAM	UAM	66469
U.S.A.	AK	U.S.A.	2000	October	M	W	UAM	UAM	66470
U.S.A.	AK	U.S.A.	2001	August	M	W	UAM	UAM	63042
U.S.A.	AK	U.S.A.	2001	April	F	W	UAM	UAM	66471
U.S.A.	AK	U.S.A.	2001	April	F	W	UAM	UAM	83508
U.S.A.	AK	U.S.A.	2001	February	M	W	UAM	UAM	62888
U.S.A.	AK	U.S.A.	2001	February	M	W	UAM	UAM	62889

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA AK	AK-1 Lynn Canal (near mouth of)	2001	February	F		UAM	62890
USA AK	AK-2 Kenai Peninsula: Seward	2001	February	M		UAM	62891
USA AK	AK-2 Prince William Sd.	2001	February	F		UAM	62892
USA AK	AK-2 Prince William Sd.	2001	February	F		UAM	62893
USA AK	AK-3 Katmai National Park	2001	February	M		UAM	62894
USA AK	AK-3 Kodiak I.	2001	February	M		UAM	62895
USA AK	AK-4 Clubbing Rocks (Gulf of) (54 42 N 162 27W)	2001	February	M		UAM	62896
USA AK	AK-4 Clubbing Rocks (Gulf of) (54 42 N 162 27W)	2001	February	M		UAM	62897
USA AK	AK-4 LightHouse Rocks	2001	February	M		UAM	66472
USA AK	AK-6 Aleutian Is. Amlia I.	2001	February	M		NMMNH	246499
USA AK	AK-7 Aleutian Is.: nr. ls.	2001	March	M		UAM	140754
USA AK	AK-8 Pribilof Is.: St. Paul I.	2001	April	M	adult	MVZ	4770
USA AK	AK-8 Pribilof Is.	2001	April	F		UAM	11506
USA AK	AK-8 Pribilof Is.	2001	April	M	first year	UAM	11503
USA AK	AK-8 Pribilof Is.	2001	September	M		NMMNH	7236
USA AK	AK-8 Pribilof Is.	2001	September	M		NMMNH	A38214
USA AK	AK-8 Pribilof Is.	2001	September	M		MCZ	44260
USA AK	AK-8 Pribilof Is.	2001	September	M		UAM	64105
USA AK	AK-8 Pribilof Is.	2001	September	M		NMMNH	A37913
USA AK	AK-8 Pribilof Is.	2001	September	M		MCZ	10685
USA AK	AK-8 Pribilof Is.	2001	September	M		NMMNH	12488
USA AK	AK-8 Pribilof Is.	2001	September	M		MCZ	24011
USA AK	AK-8 Pribilof Is.	2001	September	M		NMMNH	37615
USA AK	AK-8 Pribilof Is.	2001	September	M		NMMNH	239367
USA AK	AK-8 Pribilof Is.	2001	September	M		NMMNH	484525
USA AK	AK-8 Pribilof Is.: St. George I.	2001	September	F	old adult	NMMNH	A49438
USA AK	AK-8 Pribilof Is.: St. George I.	2001	September	M		UMMZ	156577
USA AK	AK-8 Pribilof Is.: St. George I.	2001	September	M		NMMNH	A08162
USA AK	AK-8 Pribilof Is.: St. George I.	2001	September	M		NMMNH	A08163
USA AK	AK-8 Pribilof Is.: St. George I.	2001	September	M		MCZ	A49730
USA AK	AK-8 Pribilof Is.: St. Paul I.	2001	September	M	fetus	MCZ	56935
USA AK	AK-8 Pribilof Is.: St. Paul I.	2001	September	M	fetus	MCZ	56936
USA AK	AK-8 Pribilof Is.: St. Paul I.	2001	September	M	fetus	MCZ	56937

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	AK	AK-8 Pribilof Is.; St. Paul I.						129
USA	AK	AK-8 Pribilof Is.; St. Paul I.					MCZ	1737
USA	AK	AK-8 Pribilof Is.; St. Paul I.					MCZ	56776
USA	AK	AK-8 Pribilof Is.; St. Paul I.					MCZ	56920
USA	AK	AK-8 Pribilof Is.; St. Paul I.					MCZ	56934
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A07140
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A07141
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A12053
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A49448
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A49450
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A49451
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A49452
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A49453
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	ADF&G
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A15861
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	A15359
USA	AK	AK-8 Pribilof Is.; St. Paul I.					UAM	4508
USA	AK	AK-8 Pribilof Is.; St. Paul I.					UAM	5216
USA	AK	AK-8 Pribilof Is.; St. Paul I.					UAM	5217
USA	AK	AK-8 Pribilof Is.; St. Paul I.					NMMNH	86064
USA	AK	AK-8 Pribilof Is.; St. Paul I.					UAM	67097
USA	AK	AK-8 Pribilof Is.; St. Paul I.					UAM	73074
USA	AK	AK-8 Pribilof Is.; St. Paul I.					BELL	
USA	AK	Aleutian Is.					ZIN	870
USA	AK	Aleutian Is.					NMMNH	A04702
USA	AK	Aleutian Is.					NMMNH	A04703
USA	AK	Aleutian Is.					NMMNH	A04701
USA	AK	Aleutian Is.					NMMNH	A03631
USA	AK	Aleutian Is.					NHM	1859.11.5.1
USA	CA	CA San Francisco Co.: San Francisco Bay	1843		M			
USA	CA	CA San Francisco Co.: San Francisco	1854	July	M			
USA	CA	CA San Francisco Co.: Farallon Is.	1854					
USA	CA	CA San Francisco Co.: Farallon Is.	1856	July	M	adult		
USA	CA	CA Monterey Co.:Monterey	1856	July	M			
USA	CA	CA Monterey Co.:Monterey	1859		M			
USA	CA	CA San Francisco Co.:Farallon Is.	1859		F	young		
USA	CA	CA San Francisco Co.:Farallon Is.	1870		M			
USA	CA	CA San Francisco Co.:Farallon Is.	1870					
USA	CA	CA San Francisco Co.:Farallon Is.	1870					
USA	CA	CA San Francisco Co.:Farallon Is.	1875					
USA	CA	CA San Francisco Co.:Farallon Is.	1877					
USA	CA	CA Humboldt Co.: Cape Mendocino	1883	December				

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	CA	Humboldt Co.: Cape Mendocino	1883	December	F	adult	NMNH	14006
USA	CA	Mendocino Co.: Cape Mendocino	1883	December			NMNH	A21076
USA	CA		1884	August			NMNH	14613
USA	CA		1884	May	M		CAS	14617
USA	CA	San Francisco Co.: San Francisco	1884	September	F		NMNH	9370
USA	CA	San Francisco Co.: Farallon Is.	1884	January			NMNH	A21523
USA	CA	San Francisco Co.: Farallon Is.	1884	January			NMNH	A21537
USA	CA	Monterey Co.: Monterey	1892	January			NMNH	19981
USA	CA	Monterey Co.:Monterey	1892	January			NMNH	19982
USA	CA	Monterey Co.:Monterey	1892	January			NMNH	19983
USA	CA	Monterey Co.:Monterey	1892	January			NMNH	19979
USA	CA	Monterey Co.:Monterey	1892	January			NMNH	19980
USA	CA	Monterey Co.:Monterey	1892	January	F		ANSP	3260
USA	CA		1893		M		ANSP	3261
USA	CA	Monterey Co.: Pacific Grove	1897				KU	2874
USA	CA	Monterey Co.: Monterey Bay: nr. Pt. Pinos	1899	June	F		KU	2762
USA	CA	Monterey Co.: Monterey Bay: nr. Pt. Pinos	1899	June	F		KU	2763
USA	CA	Monterey Co.: Monterey Bay: nr. Pt. Pinos	1899	June	M		KU	2761
USA	CA	Monterey Co.: Monterey Bay	1899	summer			KU	2732
USA	CA	Monterey Co.: Monterey Bay	1899				KU	2886
USA	CA	Monterey Co.: Monterey Bay	1899				KU	121594
USA	CA	Monterey Co.: Monterey Bay	1899				KU	121595
USA	CA	San Mateo Co.: Ano Nuevo I.	1901	August		pup	CAS	20700
USA	CA	San Mateo Co.: Ano Nuevo I.	1901	August	F		CAS	20699
USA	CA	San Mateo Co.: Ano Nuevo I.	1903		M		KU	2757
USA	CA	San Mateo Co.: Ano Nuevo I.	1903		M		NHM	1903.10.11.7
USA	CA	San Mateo Co.: Ano Nuevo I.	1903		M		NHM	1903.10.11.8
USA	CA	San Mateo Co.: Ano Nuevo I.	1906	July			CMNH	1484
USA	CA	San Mateo Co.: Ano Nuevo I.	1906	July			CMNH	1485
USA	CA	San Mateo Co.: Ano Nuevo I.	1906	July			AMNH	27408
USA	CA	San Mateo Co.: Anu Nuevo Island	1906	September			AMNH	27407
USA	CA	Monterey Co.	1906	July			MVZ	4112
USA	CA	San Mateo Co.: Ano Nuevo I.	1907	July			MVZ	4117
USA	CA	San Mateo Co.: Ano Nuevo I.	1907	July			MVZ	4121
USA	CA	San Mateo Co.: Ano Nuevo I.	1907	July			MVZ	4120

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1907	July		MVZ	4964
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1907	July	F	MVZ	4967
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1907	June	F	MVZ	4113
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1907	June	M	MVZ	8821
USA	CA	CA	Santa Barbara Co.: Pt. Conception	1908	February	M	NMNH	151534
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1908	June	M	MVZ	4116
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1908	June	M	CAS	3
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1908	June	M	MVZ	4115
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1908	June	M	MVZ	5871
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1908	June	M	MVZ	4114
USA	CA	CA	Monterey Co.: Carmel Pt.	1908	September	F	MVZ	4892
USA	CA	CA	San Francisco Co.: San Francisco Bay	1908		M	MVZ	4893
USA	CA	CA	San Francisco Co.: San Francisco Bay	1908		M	MVZ	4897
USA	CA	CA	San Francisco Co.: San Francisco Bay	1908		F	NHM	1908.3.11.4
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1908		F	CAS	9
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	M	CAS	16
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	M	CAS	15
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	F	CAS	17
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	M	CAS	18
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	M	CAS	19
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	F	CAS	10
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	F	CAS	11
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	F	CAS	12
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	July	F	CAS	13
USA	CA	CA	Monterey Co.: Pt. Pinos	1909		M	NMNH	159964
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	June	M	CAS	6
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	June	M	CAS	7
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	June	M	CAS	8
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1909	June	M	CAS	4
USA	CA	CA	Santa Barbara Co.: Santa Cruz I.	1911	June	M	CAS	431
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1915	June	M	CAS	1118
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1915	June	M	CAS	1119
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1915	June	F	CAS	1120
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1915	June	M	AM	1134
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1915	June	F	CAS	1332

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	CA San Mateo Co.: Ano Nuevo I.	1915	June	M	juvenile	CAS	1122
USA	CA San Mateo Co.: Ano Nuevo I.	1915	June	M	pup	CAS	1121
USA	CA San Mateo Co.: Ano Nuevo I.	1915	June	F		LACM	52311
USA	CA San Mateo Co.: Ano Nuevo I.	1915	June	M		LACM	52312
USA	CA San Mateo Co.: Ano Nuevo I.	1915	June	F		LACM	52313
USA	CA San Mateo Co.: Ano Nuevo I.	1921	July	M		LACM	616
USA	CA San Mateo Co.: Ano Nuevo I.	1921	July	M		LACM	620
USA	CA San Mateo Co.: Ano Nuevo I.	1921	June	M	immature	CAS	3764
USA	CA San Mateo Co.: Ano Nuevo I.	1921	June	F	immature	DMNS	2772
USA	CA San Mateo Co.: Ano Nuevo I.	1924	June	M	immature	DMNS	2773
USA	CA San Mateo Co.: Ano Nuevo I.	1924	June	F	juvenile	CAS	4940
USA	CA San Mateo Co.: Ano Nuevo I.	1924	June	M		UCLA	15312
USA	CA San Mateo Co.: Ano Nuevo I.	1924	June	F		UCLA	14394
USA	CA San Mateo Co.: Ano Nuevo I.	1924	June	M	adult	UCLA	2744
USA	CA Santa Barbara Co.: San Miguel I.	1928	July	M	adult	UCLA	2769
USA	CA Santa Barbara Co.: San Miguel I.	1928	June	F	adult	UCLA	48100
USA	CA Santa Barbara Co.: San Miguel I.	1928	June	M	immature	KU	7659
USA	CA Marin Co.: Bolivar Bay	1929	February	F		CAS	69602
USA	CA Santa Cruz Co.: mouth of Waddell Creek	1933	July	F		MVZ	48434
USA	CA Marin Co.: Dillon Beach	1935	May		neonate	MNHU	21443
USA	CA San Mateo Co.: Moss Beach	1938	August	M		MVZ	91069
USA	CA Alameda Co.: Berkeley Yacht Harbor	1940	June	M		MVZ	96388
USA	CA Marin Co.: nr. Pt. Reyes Lighthouse	1941	August	M		MVZ	101430
USA	CA Alameda Co.: Albany, nr. El Cerrito Hill	1944	September	M		KU	18440
USA	CA Monterey Co.: Hopkins Marine Station	1946	June	F		UWBM	51177
USA	CA	1946		M	adult	UWBM	51178
USA	CA Santa Barbara Co.: Santa Barbara	1949				SBM	253
USA	CA Santa Barbara Co.: Santa Barbara	1950				SBM	254
USA	CA San Mateo Co.: Ano Nuevo I.	1950				NHM	1950.7.21.3
USA	CA San Mateo Co.: Ano Nuevo I.	1950				NHM	1950.7.21.4
USA	CA San Mateo Co.: Ano Nuevo I.	1950				NHM	1950.7.21.5
USA	CA San Mateo Co.: Ano Nuevo I.	1950				NHM	1950.7.21.6
USA	CA San Mateo Co.: Ano Nuevo I.	1950				NHM	1950.7.21.7
USA	CA San Mateo Co.: Ano Nuevo I.	1950				NHM	1950.7.21.8

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	CA	CA	San Luis Obispo Co.: Morrow Strand Park	1952	February	F	LACM	51183
USA	CA	CA	Monterey Co.: Elkhorn Slough	1952	July		MVZ	118620
USA	CA	CA	Santa Barbara Co.: Hollister Ranch	1954			SBM	252
USA	CA	CA	Marin Co.: nr. Pt. Reyes Lighthouse	1955			MVZ	119669
USA	CA	CA	San Francisco: Ocean Beach: N end	1956			BAND	56
USA	CA	CA	Marin Co.: nr. Pt. Reyes Lighthouse	1958	April	F	fetus	122524
USA	CA	CA	San Mateo Co.: Pigeon Pt.: 18 mi WSW	1958	March	M	3	
USA	CA	CA	Santa Cruz Co.: 37° 09' N, 122° 47' W	1958	March	F	NMMI	366
USA	CA	CA	Santa Cruz Co.: Waddell Beach	1959	June		CAS	367
USA	CA	CA	Ventura Co.: San Nicolas I.	1960	April	F	LACM	13497
USA	CA	CA	Ventura Co.: San Nicolas I.	1960	April		LACM	51232
USA	CA	CA	Humboldt Co.: Clam Beach	1960	June		HSU	51398
USA	CA	CA	Humboldt Co.: Clam Beach	1960	June		CSLB	1762
USA	CA	CA	Santa Cruz Co.: Waddell Beach	1961	April	M	immature	
USA	CA	CA	San Mateo Co.: Ano Nuevo Pt.	1961	July	M	BAND	71
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1962	July	F	BAND	75
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1962	July	F	pup	12864
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1962	July	F	BAND	267
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1962	June	M	2 weeks	261
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1962	June	F	BAND	13496
USA	CA	CA	San Mateo Co.: Ano Nuevo Pt.	1962	June	F	CAS	235
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1962	May	M	~1	234
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1962	May	F	BAND	12873
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1963	August	M	pup	12872
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1963	August	F	CAS	12875
USA	CA	CA	Monterey Co.: Monterey Bay	1963	July	M	adult	12874
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1963	July	M	pup	408
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1963	June	F	CAS	2729
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1963	October	M	5 months	372
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1963	October	M	juvenile	579
USA	CA	CA	Santa Cruz Co.: Waddell Beach	1963	summer	F	CAS	577
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1963			CAS	13134
USA	CA	CA	San Mateo Co.	1963			CAS	12888
USA	CA	CA	Marin Co.: Wildcat Beach: S end	1964	July	M	adult	
USA	CA	CA	San Mateo Co.: Ano Nuevo Pt.	1964	June	F	BAND	
USA	CA	CA	San Mateo Co.: Bean Hollow Beach	1964	June	F	pup	
USA	CA	CA	San Mateo Co.: Ano Nuevo I.	1964	March	F	pup	

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	CA San Francisco Co.: Farallon Is.	1965	June		immature	CAS	24359
USA	CA San Mateo Co.: Ano Nuevo Pt.	1965	November	F	adult	BAND	746
USA	CA San Mateo Co.: Ano Nuevo I.	1965	October	F		BAND	723
USA	CA San Mateo Co.: Ano Nuevo I.	1965	October	M		BAND	724
USA	CA San Mateo Co.: Sharp Park	1965	February	F		CAS	13818
USA	CA San Mateo Co.: Pacifica: Salada Beach	1966	July	F		CAS	13819
USA	CA San Mateo Co.: Ano Nuevo Pt.: 1/2mile N	1966	July	F		BAND	1028
USA	CA San Mateo Co.: Ano Nuevo I.	1967	June	M		WSU	67-40
USA	CA San Mateo Co.: Ano Nuevo I.	1967	November	M	immature	DMNS	8656
USA	CA Marin Co.: Wildcat Beach: S end	1967		F		BAND	1144
USA	CA Humboldt Co.: McNutt Gulch: 1 mi S	1968	April	M		HSU	774
USA	CA San Mateo Co.: Gazos Creek	1968	August	F	pup	BAND	1314
USA	CA San Mateo Co.: Ano Nuevo I.	1968	July	F		BAND	1291
USA	CA San Mateo Co.: Ano Nuevo I.	1968	July	M		BAND	1290
USA	CA San Mateo Co.: Ano Nuevo I.	1968	July	F		BAND	1292
USA	CA San Mateo Co.: Ano Nuevo I.	1968	July	F		UAMZ	5465
USA	CA San Mateo Co.: Thornton Beach State Park	1968	July	F		LACM	39650
USA	CA Monterey Co.: Moss Landing	1968	June	F		HSU	1761
USA	CA San Mateo Co.: Ano Nuevo Pt.	1968	June	F		BAND	1270
USA	CA Humboldt Co.: Cape Mendocino: 1/4 mi S	1968	May			HSU	1767
USA	CA San Mateo Co.	1968	October		5 months	UF	13885
USA	CA San Mateo Co.: Ano Nuevo I.	1968	October	M	adult	BAND	1321
USA	CA San Mateo Co.: Ano Nuevo Pt.	1968	October	F		BAND	1347
USA	CA San Mateo Co.: just N of Gazos Creek	1968	September	F	adult	BAND	1313
USA	CA San Mateo Co.: Ano Nuevo I.	1968			juvenile	DMNS	8243
USA	CA Sonoma Co.: Fort Ross	1968		F		LACM	39649
USA	CA Sonoma Co.: Fort Ross	1968				LACM	39650
USA	CA San Mateo Co.: Ano Nuevo I.	1968				NHM	1968.8.9.1
USA	CA San Mateo Co.	1969	April			UF	13886
USA	CA San Mateo Co.: Ano Nuevo I.	1969	December	M	fetus	BAND	1603
USA	CA San Mateo Co.: Ano Nuevo Pt.	1969	December	M		BAND	1604
USA	CA Humboldt Co.: Big Lagoon: 1 mi S	1969	February	M		HSU	1754
USA	CA San Mateo Co.: Ano Nuevo Pt.	1969	July	F		BAND	1427
USA	CA San Mateo Co.: Ano Nuevo Pt.	1969	July	F		BAND	1428
CA	CA Humboldt Co.: Big Lagoon: 1 mi S	1969	October	M		HSU	1185

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	CA	Marin Co.: Bolinas: Agate Beach: 2 mi N	1969	September	M	immature	CAS	16245
USA	CA	San Mateo Co.: Ano Nuevo I.	1969	January	F		DMNS	8242
USA	CA	San Mateo Co.: Ano Nuevo Pt.	1970	June	M		BAND	1605
USA	CA	San Mateo Co.: Ano Nuevo I.	1970	June	M		BAND	1732
USA	CA	San Mateo Co.: Ano Nuevo I.	1970	May	M		DMNS	8657
USA	CA	Solano Co.: Clam Beach Co.	1970	November	F		HSU	1334
USA	CA	San Mateo Co.: Ano Nuevo Pt.: 1.5 mi N	1970	October			BAND	1777
USA	CA	Humboldt Co.: Mattole R.: 3 mi S mouth	1970	September			HSU	1252
USA	CA	San Mateo Co.: Daly City: Thornton Beach	1970				CAS	15653
USA	CA	San Mateo Co.: Ano Nuevo I.	1970				CAS	15980
USA	CA	San Mateo Co.: Ano Nuevo Pt.	1971	November	M		BAND	1908
USA	CA	San Mateo Co.: Pacific Beach	1971	October	F		BAND	1907
USA	CA	Santa Barbara Co.: San Miguel I.	1972	August	F		NMML	1292
USA	CA	Marin Co.: Bolinas: Agate Beach: 1 mi N	1972	July	M		CAS	21396
USA	CA	Marin Co.: Bolinas: Agate Beach	1972	September	F		CAS	21397
USA	CA	Pt. Reyes National Seashore	1973	August	F		CAS	21394
USA	CA	Marin Co.: Pt. Reyes National Seashore	1973	August	F		CAS	21398
USA	CA	San Mateo Co.: Moss Beach	1973	August	F		CAS	21393
USA	CA	Sonoma Co.: Comet Beach	1973	August	F		CAS	21390
USA	CA	Humboldt Co.: mouth of Mad R.	1973	July	M		CAS	21395
USA	CA	Marin Co.: Bolinas: Duxbury Reef	1973	June	F		CAS	21391
USA	CA	Humboldt Co.: Mattole Rock Beach	1973	September	F	pup	CAS	2254
USA	CA	Santa Cruz Co.: Waddell Beach: 1/2 mi S	1974	August	F		BAND	500840
USA	CA	San Diego Co.: La Jolla	1974	January	F		NMNH	
USA	CA	San Mateo Co.: Ano Nuevo I.	1974	June	F		BAND	2227
USA	CA	San Mateo Co.: Ano Nuevo Pt.: 1 mi N	1974	June	F		BAND	2228
USA	CA	San Mateo Co.: Ano Nuevo I.	1974	March	M		BAND	2385
USA	CA	San Mateo Co.: Ano Nuevo I.	1974	November	F		BAND	2265
USA	CA	Humboldt Co.: Mad R.: 4 mi. S mouth	1975	April	M		HSU	2127
USA	CA	Del Norte Co.: Pt. st. George	1975	May	M		HSU	1825
USA	CA	San Mateo Co.: S Pescadero Beach	1975	September	F	~1	BAND	2351
USA	CA	Del Norte Co.: Pebble Beach: N end	1976	June	F		BAND	2401
USA	CA	San Mateo Co.: Ano Nuevo I.	1976	June	M		BAND	2386
USA	CA	Del Norte Co.: Pequa Beach	1976	May	F		BAND	2407
USA	CA	San Mateo Co.: Ano Nuevo Pt. area	1977	August	F		BAND	2558
USA	CA	San Mateo Co.: Ano Nuevo I.	1977	December	F		BAND	2600

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA	CA San Mateo Co.: Thornton Beach State Park	1977	February	F	pup	BAND	2507
USA	CA San Mateo Co.: Ano Nuevo I.	1977	July	F	BAND	BAND	2535
USA	CA San Mateo Co.: Ano Nuevo Pt. area	1977	July	F	BAND	BAND	2548
USA	CA San Mateo Co.: nr. Fort Funston Beach	1977	July	F	BAND	BAND	2537
USA	CA San Mateo Co.: Ano Nuevo Pt. area	1977	November	M	BAND	BAND	2577
USA	CA San Mateo Co.: Franklin Pt.: 1/2 mi S	1977	October	F	BAND	BAND	2575
USA	CA Del Norte Co.: Klamath R.: mouth	1978	April	F	HSU	HSU	2741
USA	CA Santa Cruz Co.: Waddell Beach	1978	August	F	BAND	BAND	2648
USA	CA San Mateo Co.: Ano Nuevo Pt. area	1978	July	F	BAND	BAND	2641
USA	CA San Mateo Co.: Pescadero Beach	1978	June	F	BAND	BAND	2622
USA	CA Humboldt Co.: Gold Bluff Beach	1978	May	M	CAS	CAS	21144
USA	CA San Mateo Co.: Pacifica	1978	August	F	BAND	BAND	2743
USA	CA San Mateo Co.: Ano Nuevo I.	1979	November	F	BAND	BAND	2730
USA	CA San Mateo Co.: Ano Nuevo I.	1979	August	F	BAND	BAND	2757
USA	CA San Mateo Co.: Ano Nuevo I.	1979	December	F	BAND	BAND	2698
USA	CA San Mateo Co.: Ano Nuevo Pt.: 1 mi N	1979	January	F	BAND	BAND	2723
USA	CA Humboldt Co.: Cape Mendocino	1979	July	F	BAND	BAND	2724
USA	CA Humboldt Co.: Cape Mendocino	1979	July	M	BAND	BAND	2725
USA	CA Humboldt Co.: Cape Mendocino	1979	July	F	BAND	BAND	2755
USA	CA San Mateo Co.: Ano Nuevo I.	1979	July	F	BAND	BAND	2756
USA	CA San Mateo Co.: Ano Nuevo I.	1979	July	F	BAND	BAND	2731
USA	CA San Mateo Co.: Ano Nuevo Pt. area	1979	July	F	BAND	BAND	2721
USA	CA Humboldt Co.: Clam Beach	1979	June	M	BAND	BAND	2708
USA	CA Santa Cruz Co.: Greyhound Rock area	1979	June	F	BAND	BAND	3225
USA	CA Humboldt Co.: nr. Patricks Pt. State Park	1979	March	F	HSU	HSU	2722
USA	CA Del Norte Co.: Pelican Beach	1979	May	F	BAND	BAND	2726
USA	CA Humboldt Co.: Shelter Cove Beach	1979	May	F	BAND	BAND	2752
USA	CA San Mateo Co.: Ano Nuevo I.	1979	November	F	BAND	BAND	2753
USA	CA San Mateo Co.: Ano Nuevo I.	1979	October	M	BAND	BAND	2868
USA	CA San Mateo Co.: Franklin Pt. area	1980	August	M	BAND	BAND	2854
USA	CA Humboldt Co.: ~1 mi S McNutt Gulch	1980	July	M	BAND	BAND	2850
USA	CA Humboldt Co.: Cape Mendocino	1980	July	F	BAND	BAND	2855
USA	CA San Mateo Co.: 100 yds N of Franklin Pt.	1980	July-August	F	BAND	BAND	2852
USA	CA Del Norte Co.: Gilbert Creek area	1980	June	F	BAND	BAND	2853
USA	CA Del Norte Co.: Pelican Beach	1980	June-July	M	BAND	BAND	2851
CA	Humboldt Co.: Cape Mendocino	1980	mid August	F	BAND	BAND	

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	CA	San Mateo Co.: Ano Nuevo I.	1980	October-November	F		BAND	2898
USA	CA	Humboldt Co.: Clam Beach	1981	July	M		HSU	4103
USA	CA	San Mateo Co.: Tunitas Creek Beach	1981	July-August	F		BAND	2931
USA	CA	Santa Cruz Co.: Bonnie Doon Beach	1981	June		juvenile	CAS	22285
USA	CA	Humboldt Co.: Moonstone Beach	1981	November	F		HSU	4044
USA	CA	San Mateo Co.: Ano Nuevo I.	1981	October	F		BAND	2960
USA	CA	San Mateo Co.: Half Moon Bay	1982	September	F		BAND	3042
USA	CA	San Mateo Co.: Pompino State Beach	1983	August	F		BAND	3129
USA	CA	Marin Co.: Pt. Reyes National Seashore	1983	July	M	pup	BAND	3116
USA	CA	San Mateo Co.: Ano Nuevo I.	1983	June	M		BAND	3115
USA	CA	Humboldt Co.: nr. Trinidad Head	1983	March	F		CAS	22199
USA	CA	San Mateo Co.: Ano Nuevo I.	1984	July		neonate	CAS	22573
USA	CA	Humboldt Co.: Trinidad Beach	1984	September	F		HSU	4236
USA	CA	San Mateo Co.: nr. Thornton State Beach	1985	August	F		BAND	3281
USA	CA	San Mateo Co.: Ano Nuevo Pt.	1985	July	M		BAND	3265
USA	CA	Marin Co.: Pt. Reyes National Seashore	1986	September	F		BAND	3337
USA	CA	San Mateo Co.: Ano Nuevo I.	1986	August	F	young	BAND	3368
USA	CA	San Mateo Co.: Ano Nuevo I.	1987	December	F	>15	CAS	23005
USA	CA	Mendocino Co.: S MacKerricher State Park	1987	August	F		CAS	23013
USA	CA	San Francisco Co.: Ocean Beach	1988	July			BAND	3451
USA	CA	San Mateo Co.: S Pescadero State Beach	1988	April	F	>13	CAS	23092
USA	CA	Sonoma Co.: Sea Ranch: 4 mi N	1989	July	F		BAND	3490
USA	CA	San Mateo Co.: Ano Nuevo I.	1989	October	F	juvenile	CAS	23187
USA	CA	San Mateo Co.: Ano Nuevo I.	1989	September	F		CAS	23167
USA	CA	Marin Co.: Golden Gate Nat. Rec. Area	1989	August	F		BAND	23163
USA	CA	San Francisco Co.: Ocean Beach	1990	August	F		BAND	3552
USA	CA	San Mateo Co.: Ano Nuevo I.	1990	July	M		CAS	23213
USA	CA	Marin Co.: Pt. Reyes National Seashore	1991	July	F		BAND	3649
USA	CA	San Mateo Co.: Ano Nuevo I.	1991	June	M		BAND	3630
USA	CA	San Mateo Co.: Ano Nuevo I.	1991	May	F	fetus	BAND	3606
USA	CA	Marin Co.: Bolinas: Agate Beach	1991	May	M		BAND	3607
USA	CA	Marin Co.: Bolinas: Agate Beach	1991	May	M		BAND	3613
USA	CA	San Francisco Co.: Fort Funston	1991	November	M		BAND	3653
USA	CA	San Mateo Co.: Ano Nuevo Pt.	1991	October	F		BAND	3648
USA	CA	Marin Co.: Stinson Beach (S end)	1991					

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
USA CA	San Francisco Co.: nr. Fort Funston	1991	October	F	>7	BAND	3651
USA CA	Mendocino Co.: Pt. Arena: 10 mi S	1992	July	M		CAS	23735
USA CA	San Mateo Co.: Thornton Beach area	1992	July	F		BAND	3703
USA CA	San Mateo Co.: Pacifica	1993	July	F		BAND	3782
USA CA	Marin Co.: Pt. Reyes National Seashore	1993	October	M		BAND	3805
USA CA	San Francisco Co.: Farallon Is.	1994	December	M		BAND	23895
USA CA	Del Norte Co.: Oregon border: 1 mi S	1994	March	F		CAS	7169
USA CA	Humboldt Co.: Samoa: 2 mi S	1994	May	M		HSU	7150
USA CA	Del Norte Co.: Crescent City	1994	September	M		HSU	7151
USA CA	San Mateo Co.: Pacifica: Sharp Park Beach	1994	September	M		CAS	23862
USA CA	Humboldt Co.: Samoa Beach	1995	August	M		HSU	7227
USA CA	Del Norte Co.: Crescent City	1996	August	M		HSU	7368
USA CA	San Mateo Co.: S Ano Nuevo Island)	1996	July	F	adult	CAS	23964
USA CA	Del Norte Co.: Crescent City	1997	July	M	adult	HSU	7506
USA CA	San Mateo Co.: N end Rockaway Beach	1999	September	M		CAS	24451
USA CA	Humboldt Co.: Clam Beach	1999	July	F	adult	HSU	7562
USA CA	Marin Co.: Pt. Reyes National Seashore	2000	July	F	adult	CAS	25030
USA CA	San Mateo Co.: Daly City: Thornton Beach	2000	July	M	adult	CAS	25039
USA CA	San Mateo Co.: Pomponio State Beach	2000	July	M	adult	CAS	25036
USA CA	Sonoma Co.: Dillon Beach	2000	July	F	adult	CAS	25244
USA CA	San Mateo Co.: Pacifica	2000	September	F	adult	CAS	25071
USA CA	San Mateo Co.: Pescadero State Beach	2001	August	F	adult	CAS	25358
USA CA	San Mateo Co.: Ano Nuevo Pt.	2001	March	F	adult	CAS	25211
USA CA	San Francisco Co.: San Francisco	2001	May	F	adult	CAS	25280
USA CA	Humboldt Co.					HSU	1763
USA CA	Humboldt Co.					HSU	1764
USA CA	Humboldt Co.: Big Lagoon: 1 mi S					HSU	1755
USA CA	Humboldt Co.: Big Lagoon: 1 mi S					HSU	1756
USA CA	Humboldt Co.: Big Lagoon: 1 mi S					HSU	1758
USA CA	Humboldt Co.: Big Lagoon: 1 mi S					HSU	1759
USA CA	Humboldt Co.: Big Lagoon: 1 mi S					HSU	1760
USA CA	Humboldt Co.: Big Lagoon: 1 mi S					HSU	2578
USA CA	Los Angeles Co.: Los Angeles					LACM	54178
USA CA	Marin Co.: Pt. Reyes					AMNH	144
USA CA	Marin Co.: Pt. Reyes					AMNH	150

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	CA	Marin Co.: Pt. Reyes			M		YPM	1028
USA	CA	Marin Co.: Pt. Reyes					YPM	1039
USA	CA	Monterey Co.:Monterey					NMMNH	59153
USA	CA	Monterey Co.:Monterey					NMMNH	A06906
USA	CA	San Francisco Co.: Farallon Is.					AMNH	145
USA	CA	San Francisco Co.: Farallon Is.					MCZ	1767
USA	CA	San Francisco Co.: Farallon Is.					YPM	3143
USA	CA	San Francisco Co.: Farallon Is.					A13217	A23457
USA	CA	San Francisco Co.: Farallon Is.					NMMNH	77657
USA	CA	San Francisco Co.: Farallon Is.					UMMZ	77658
USA	CA	San Francisco Co.: Farallon Is.					UMMZ	
USA	CA	San Francisco Co.: Farallon Is.					MCZ	11059
USA	CA	San Francisco Co.: San Francisco Bay					LACM	51186
USA	CA	San Francisco Co.: San Francisco Bay					NMMNH	131895
USA	CA	San Francisco Co.: San Francisco Bay					NMMNH	131894
USA	CA	Santa Barbara Co.: San Miguel I.					LACM	51400
USA	CA	Santa Barbara Co.: Santa Barbara I.					ROM	3306200031
USA	CA	Santa Barbara Co.: Santa Cruz I.					YPM	1592
USA	CA	Santa Barbara Co.: Santa Barbara I.					FM	15549
USA	CA	Ventura Co.: San Nicolas I.					NMMNH	246323
USA	CA	Ventura Co.: San Nicolas I.					FM	33770
USA	OR	Oregon: Newport	1925	October	M		MVZ	88876
USA	OR	Oregon: Curry Co.: Port Orford	1930				UPS	5315
USA	OR	Oregon: Clatsop Co.: Warrenton: 2 mi W	1939	August			UWBM	20226
USA	OR	Oregon: Tillamook Co.: Netarts Spit	1953	August			UWBM	33211
USA	OR	Oregon: Clatsop Co. Columbia R.: 0.2 mi S	1959	August	F	adult	UWBM	20223
USA	OR	Oregon: Tillamook Co.: Short Beach	1959	July	F	adult	UWBM	379
USA	OR	Oregon: Clatsop Co. Columbia R.: 0.2 mi N	1959	June	F	adult	NMMML	20152
USA	OR	Oregon: Yaquina Head: 26 mi W	1960	April	F	6	UWBM	20227
USA	OR	Oregon: Clatsop Co. Columbia R.: 0.2 mi S	1961	August	M	adult	UWBM	19603
USA	OR	Oregon: Clatsop Co. Columbia R.: 0.2 mi S	1961	July	M	adult	SDM	1029
USA	OR	Oregon: off Oregon coast	1963	October	F		BAND	16708
USA	OR	Oregon: Cape Blanco lighthouse	1967	July	M		UPS	21600
USA	OR	Oregon: Coos Co.: Cape Arago (Coos Bay)	1970	August	M		UPS	21599
USA	OR	Oregon: Lane Co.: Heceta Beach	1974	June	M		UPS	21601
USA	OR	Oregon: Tillamook Co.: Cannon Beach	1974	May	F		UPS	
USA	OR	Oregon: Lincoln Co.: Agate Beach	1976	August	M		UPS	

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	OR	Oregon: Lincoln Co.: Heceta Head	1977		F		UPS	27394
USA	OR	Oregon: Tillamook jetty	1980	October	M	pup	NMMML	1323
USA	OR	Oregon: Clatsop Co.: Canyon Beach	1980	June	F	neonate	WSU	82-660
USA	OR	Oregon: Clatsop Beach	1981	May	F		NMMML	1327
USA	OR	Oregon: Gearhart: 1/4 mi N	1981	June	F		NMMML	1328
USA	OR	Oregon: Indian Beach	1981	March	F		NMMML	1324
USA	OR	Oregon: Canon Beach	1981	May	M	fetus/pup	NMMML	1325
USA	OR	Oregon: Clatsop Beach	1981	May	F	neonate	NMMML	1326
USA	OR	Oregon: Ecola State Park	1982	April	F	fetus	NMMML	1338
USA	OR	Oregon: Clatsop Co.: Seaside Beach	1982	May	F		NMMML	1330A
USA	OR	Oregon: Clatsop Co.: Seaside Beach	1982	May	F		NMMML	1330
USA	OR	Oregon: Clatsop Co.: Seaside Beach	1991	April	M		NMMML	1643
USA	OR	Oregon: Clatsop Co.: Pt. of Clatsop Spit	1991	May	F		NMMML	1644
USA	OR	Oregon: Columbia R. Jetty: 1/4 mi S	1992	April	F		NMMML	1646
USA	OR	Oregon: Clatsop Co.: Seaside	1992	June	M		NMMML	1662
USA	OR	Oregon: Clatsop Co.: Clatsop Spit	1992	March	M		NMMML	1645
USA	OR	Oregon: Gearhart Beach Access: 1/2 mi N	1992	May	F		NMMML	1647
USA	OR	Oregon: Newport: Yaquina Head	2001	June	M		OSU	144063
USA	OR	Oregon: Curry Co.: 1 mi S of Gold Beach					NMMNH	
USA	OR	Oregon: Tillamook Co.					SOU	
USA	WA	Oregon: Netarts Bay					UWBM	20154
USA	WA	WA McGowan					SDM	16328
USA	WA	WA La Push					NMMNH	188980
USA	WA	WA La Push					UWBM	152135
USA	WA	WA La Push					UWBM	6778
USA	WA	WA La Push					UWBM	6782
USA	WA	WA La Push					UWBM	6781
USA	WA	WA La Push					UWBM	6780
USA	WA	WA La Push					FM	29932
USA	WA	WA La Push					FM	29933
USA	WA	WA La Push					FM	29934
USA	WA	WA La Push					FM	29935
USA	WA	WA La Push					FM	29939
USA	WA	WA La Push					FM	29941
USA	WA	WA La Push					FM	29942

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA WA	WA	Island Co.: Whidbey Island: Bush Pt.	1938	May			UWBM	12017
USA USA	WA WA	Copalis	1940	April	M	yearling	NMMNH	276035
USA USA	WA WA	Seaview	1940	April		fetus	NMMNH	276041
USA USA	WA WA	Copalis	1940	May		young	NMMNH	276042
USA USA	WA WA	Jefferson Co.: Kalaloch Beach	1941	June	F		UPS	832
USA USA	WA WA	Pacific Beach	1942	June			NMMNH	276033
USA USA	WA WA	Taholah	1942	June	M		NMMNH	276032
USA USA	WA WA	Kitsap Co.: Kingston	1944	April	M		NMMNH	276034
USA USA	WA WA	Ozette	1944	April	M		UPS	2720
USA USA	WA WA	Puget Sd.	1945	July	M		UPS	10376
USA USA	WA WA	Whatcom Co.: Bellingham Bay	1963		M		UBC	8712
USA USA	WA WA	San Juan Co.: Blakeley Rocks	1976	July	M		NMMNH	504525
USA USA	WA WA	N end Willapa Bay	1978	August	M		UPS	26351
USA USA	WA WA	Copalis: main beach access: 0.4 mi S	1978	March	M		UWBM	31602
USA USA	WA WA	Roosevelt Beach (S of Pacific Beach)	1978	May	F		UPS	27393
USA USA	WA WA	Ocean Shores (?)	1980	June	F		WSU	82-665
USA USA	WA WA	0.5 mi N North Head (1 mi W Ilwaco)	1980	October	F		WSU	82-695
USA USA	WA WA	Long Beach: 5.5 mi N	1981	June	F		NMMML	1329
USA USA	WA WA	S Sunset Beach	1982	September	M	immature	UWBM	51176
USA USA	WA WA	Oysterville Beach: 0.2 mi N of access	1983	May	F		NMMML	1331
USA USA	WA WA	Camano Is.	1989	April	M		NMMML	1640
USA USA	WA WA	Ft. Canby State Park: nr. North Head Light	1991	April	F		NMMML	1642
USA USA	WA WA	Shi Shi Beach	1991	December	M		NMMML	1641
USA USA	WA WA	Tokeland/Washaway Beach	1992	August	M		NMMML	1652
USA USA	WA WA	Long Beach Peninsula	1992	July	F		NMMML	1651
USA USA	WA WA	North Head/Cape Disappointment: 1 mi N	1992	July	F		NMMML	1664
USA USA	WA WA	Willapa Bay shore: N of Nahcott	1992	November	M		NMMML	1654
USA USA	WA WA	Long Beach Peninsula	1992	October	F		NMMML	1653
USA USA	WA WA	Seaview Beach access: 1.6 mi S	1993	August			NMMML	1660
USA USA	WA WA	Conner Creek: 4.7 mi S	1993	March			NMMML	1657
USA USA	WA WA	Conner Creek: 4.8 mi S	1993	March	F		NMMML	1656
USA USA	WA WA	Conner Creek: S bank	1993	March	F		NMMML	1658
USA USA	WA WA	Oysterville Beach: 0.2 mi N of access	1993	May	F		NMMML	1659
USA USA	WA WA	Neah Bay	1996	May	F		NMMML	96-1-PJG
USA USA	WA WA	Neah Bay: Hobuck Beach						

Localities	Locality details		Year	Season	Sex	Age	Collection	Cat. no.
USA	WA	WA	1993				UAM DMNS	90191 8248
USA		Pacific coast					KU	7584
USA	USA					fetus	MCZ	7068
USA	USA						MCZ	1129
USA	USA						NMML	1578
USA	USA						NMML	DOC 5341
USA	USA						OSU	
USA	USA						OSU	
USA	USA						OSU	
USA	USA						OSU	
USA	USA						ZIN	742
							ZIN	1094
							NHM	1880.10.11.11
							ZIN	11462
							ZIN	11463
						adult	ZIN	727
							ZIN	3265
							ZIN	3262
							ZIN	3263
							NAT	13439
							ZIN	6638
							CMN	1897.1.18.6
							CMN	CMMNMA 19590
							CMNH	958
							CMNH	959
							CMNH	960
							CMNH	21004
							AMNH	21536
							AMNH	22774
							ANSP	12145
							ZIN	11457
							ANSP	12929
							CAS	6114
							CAS	6116

Pacific Ocean (North)

Pacific Ocean

Pacific Ocean (North)

Localities	Locality details	Year	Season	Sex	Age	Collection	Cat. no.
Pacific Ocean (North)		1931	May	M		ZIN	29527
		1942	July	M		ZMMU	45053
		1949		M		NHM	1949.2.3.18
		1954				LACM	51399
		1957	November			FM	88262
		1958	August	M	adult	ROM	28280
		1959				ZIN	27452
Pacific Ocean (North)		1960	September	M		FM	92242
		1962	July	M		ZMMU	65684
		1963		F	6	NSMT	45
		1964		M	4	NSMT	3
		1964		M	5	NSMT	51
		1964				ZIN	29125
		1964				ZIN	29126
		1964				ZIN	29127
		1964				ZIN	29128
		1965				NSMT	6
		1969	October	F		ZIN	31509
		1977	April	F	adult	UAM	16015
		1990				UAM	31706
		1992		M		NHM	1992.272
Bering Strait						MNHU	72816
				M	3	NSMT	137
				M	4	NSMT	111
					adult	UAM	4972
				M	adult	UAM	5211
				M	adult	UAM	5213
				M	adult	UAM	5214
					adult	RBCM	9722
				F	adult	ZIN	11468
				M	adult	ROM	20356
					adult	ROM	25315
				F	adult	SOU	20777
					neonate	CAS	5210
				F	old adult	UAM	

Locality details	Localities	Year	Season	Sex	Age	Collection	Cat. no.	
							1	2
					old adult	UAM	5215	
						NSMT	1	
						NSMT	11	
						NSMT	15	
						NSMT	16	
						NSMT	21	
						NSMT	40	
						NSMT	47	
						NSMT	55	
						NSMT	58	
						NSMT	62	
						NSMT	68	
						NSMT	107	
						NSMT	125	
						NSMT	128	
						SBM	131.2	
						SBM	131.2	
						NSMT	131	
						NSMT	131	
						SBM	131.2	
						SBM	131.2	
						NSMT	132	
						NSMT	132	
						NSMT	134	
						NSMT	135	
						NSMT	136	
						NSMT	154	
						NSMT	159	
						NSMT	160	
						NSMT	165	
						NSMT	167	
						NSMT	168	
						NSMT	169	
						NSMT	173	
						ZIN	726	
						ZIN	729	
						ZIN	743	

