

# **PARTNERSHIP IN NONGAME WILDLIFE RESEARCH AND DATA MANAGEMENT FOR THE STATE OF ALASKA'S WILDLIFE CONSERVATION PLAN**

**FINAL REPORT**  
**June 2007**



# **Partnership in Nongame Wildlife Research and Data Management for the State of Alaska's Wildlife Conservation Plan, 2004 – 2007**

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By

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## Abstract

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The Alaska Natural Heritage Program (AKNHP) entered into a partnership with the Alaska Department of Fish and Game's (ADF&G) nongame program to summarize biological, ecological, and distribution information on a number of species featured in their Comprehensive Wildlife Conservation Strategy (CWCS) to aid with informed decision-making regarding the conservation status of these animals. Between 2004 and 2006, AKNHP staff compiled and synthesized information on the biology and ecology of 92 select featured species and used this information to develop individual species status reports. Each report contains summarized current and historical information on individual species' life history traits, distribution, population abundance and trends, habitat preferences, level of protection, concerns, conservation status, and potential conservation and management actions at both state and global levels. We used the summarized information from each report to review and revise the Heritage Program state status ranks for individual species. During 2006 and 2007, we compiled and summarized range and distribution information to develop maps for 56 of the 92 featured species for which status reports were prepared. We compiled a full bibliography for all references cited during status report and map development. We developed a project web site that is accessible through the Alaska Natural Heritage Program web-page ([http://aknhp.uaa.alaska.edu/zoology/Zoology\\_ADFG.htm](http://aknhp.uaa.alaska.edu/zoology/Zoology_ADFG.htm)) and is linked to the Alaska Department of Fish and Game's CWCS web site ([http://www.sf.adfg.state.ak.us/statewide/ngplan/NG\\_outline.cfm](http://www.sf.adfg.state.ak.us/statewide/ngplan/NG_outline.cfm)), where species status reports and range and distribution maps for individual species can be downloaded.

## **Acknowledgements**

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## **Introduction**

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The Alaska Department of Fish and Game's statewide Comprehensive Wildlife Conservation Strategy (CWCS) was finalized in August 2005 and approved by the Director of the U.S. Fish and Wildlife Service in December, 2005, making Alaska eligible for future Congressional appropriations of State Wildlife Grants (SWG) funds. The overall goal of the CWCS is to conserve the diversity of Alaska's wildlife resources, focusing on those species with the greatest conservation need. In order to achieve this goal, the CWCS emphasizes species that are not commercially or recreationally hunted, trapped or fished, and wildlife populations, including select game populations that have specific conservation concerns.

The CWCS highlights the conservation needs of a large number of species, species groups, and species assemblages. These species and groups are termed "featured species" within the CWCS. Featured species were selected by experts, peers, and others with Alaskan expertise after applying criteria on vulnerability of a species, subspecies or distinct populations and addressing such factors as abundance, rarity, isolation, endemism, sensitivity to environmental disturbance, incidence of deformity or disease, representation, international importance, and formal designation as at risk (e.g., T&E). The Alaska CWCS Featured Species list includes fourteen taxonomic groups: amphibians and reptiles, marine fish, marine invertebrates, sea birds, marine mammals, terrestrial mammals, land birds, raptors, terrestrial invertebrates, water birds, shorebirds, freshwater fish, waterfowl, and freshwater invertebrates (ADF&G 2006).

The CWCS acknowledged that a serious impediment to the goal of better conserving broad arrays of species was the lack of information available on most Alaskan species and their habitats. Much of the research in the state has focused on game species that are important for commercial, recreational and subsistence users, while little attention has been focused on the state's other wildlife resources, including invertebrates, fish, amphibians, small mammals, and birds. Before the state could select appropriate planning targets and develop conservation strategies for the CWCS, information was needed on many of these nongame species. Unfortunately, even basic information about the biology, ecology, population abundance, trends and distribution of these species was sorely lacking. To that end, the Alaska Natural Heritage Program (AKNHP) entered into a partnership with the Alaska Department of Fish and Game's (ADF&G) nongame program to summarize biological, ecological, and distribution information on a

number of “featured species” to aid with informed decision-making regarding the conservation status of these animals.

## Objectives

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The objective of this project was to compile and synthesize biological, ecological and distribution information on select featured vertebrate and invertebrate species, as determined cooperatively by ADF&G and AKNHP. This summarized information was then to be used to develop species status reports, to review the Heritage Program conservation status ranks, to develop accurate range and distribution (occurrence) maps for individual species, to enter this information into the Heritage Program’s Biotics database, and to make this information accessible to the public via web distribution.

## Methods

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This was a multi-year project, initiated in 2004 and culminating in 2007. Efforts during 2004-06 focused on developing individual featured species status reports. During 2006-07, we mapped the range and distribution of a subset of the species for which status reports were prepared. Methods for these two component parts of the project are described separately.

### *Species Status Reports:*

We compiled and synthesized information on the biology and ecology of 92 select featured species and used this information to develop individual species status reports (Table 1). Each report contains summarized current and historical information on individual species’ life history traits, distribution, population abundance and trends, habitat preferences, level of protection, concerns, conservation status, and potential conservation and management actions at both state and global levels. Reports are largely based on an extensive literature review of published and unpublished literature and personal communication with experts. We attempted to have reports reviewed by at least one expert in that taxa and their comments were incorporated into the final status report.

We used the summarized information from each report to review and revise the Heritage Program state status ranks for individual species (status rank definitions are provided in Table 2). All information contained within the species status reports, at both state and global levels, was incorporated into the Heritage Program’s Biotics database, including a full bibliography for all literature citations.

### *Distribution Mapping:*

We compiled and summarized range and distribution information for 56 featured species (Table 3); this represents a subset of the 92 species for which status reports were prepared (described above). Species to be mapped were selected cooperatively by ADF&G and AKNHP, and selection was based largely on high State (S) Ranks (e.g. S1 – S3 on a scale of S1 – S5, or species of conservation priority). Range and distribution information was compiled from published and unpublished literature, museum specimen data, and unpublished data and field notes obtained directly from researchers.

Range is defined as the total areal extent occupied by a given taxon and is usually estimated as the aggregation of all map units thought to be occupied by individuals of the target taxon in the study area (in this case, Alaska). NatureServe has already developed the initial overlay of published maps for many mammals, birds, and amphibians of the Western Hemisphere (<http://www.natureserve.org/getData/animalData.jsp>). We modified the existing NatureServe range maps using occurrence data (described below) so they more accurately depicted the ranges of individual species. For all subspecies (for which there were no pre-existing range maps), we developed range maps based on descriptions from the literature and occurrence data.

Distribution is defined as the spatial arrangement of environments suitable for occupation by individuals of a given taxon and is usually estimated as a subset of all environments in the study area that regularly supports individuals. Distribution maps are finer in grain than range maps, with much interdigitation of suitable and unsuitable environments that are potentially occupied by individuals. To map the distribution of individual species we developed 1) an ArcGIS observations database and then 2) created "element occurrences" for individual species based on the observations data.

An element occurrence is the spatial representation of a species at a specific location, and is the foundation of NatureServe's biodiversity data model. An element occurrence (EO) generally delineates a species population and represents the georeferenced biological feature that is of conservation or management interest. Element occurrences are documented by observations from the published and unpublished literature, field notes, and voucher specimens (where appropriate). Hence, the first step in developing EOs is to compile all known observations for that species.

Guidelines and protocols for creating EOs are developed by NatureServe and utilized by Heritage Program biologists to characterize a species' distribution across its global range. EO guidelines are specific to individual species and/or species groups or taxa. For example, most small mammals are not wide-ranging and collections or observations from any natural habitat can typically be considered an EO because it is assumed that the habitat contributes to their conservation. For bats, sites such as caves and mines where breeding or wintering occurs (hibernacula) are also considered EOs. For birds, there must be evidence of breeding and/or nesting for the observation of a bird to be considered a breeding EO. In cases of colonial birds (e.g., terns), or birds with more than one nest site (e.g., eagles), the colony or nesting territory is considered a breeding EO. Any natural habitat where an amphibian or reptile is collected or observed constitutes an EO.

Non-breeding habitats are critical to the survival of some species, including mussel beds, hibernacula, migratory bird concentration sites, and bird rookeries. These are biologically important sites, where a catastrophic event at any one location could have a significant impact on an entire taxonomic group, and are identified as "species concentration sites". When appropriate, we also created EOs for specific concentration sites such as staging areas and foraging concentrations.

To develop the observations database and create element occurrence distribution maps, we:

1. Compiled, synthesized, and georeferenced individual species location information from published and unpublished sources and used this data to

- develop geographic coverages depicting species observations in an ArcGIS project.
2. Filtered the observation data for duplicate records, erroneous or suspect location information, and tried to reconcile the numerous coordinate systems used to record locations from such diverse data sets.
  3. Conferred with experts about data quality and/or the accuracy of mapped species depictions whenever necessary.
  4. Using EO specifications developed by NatureServe for each taxon (<http://www.natureserve.org/prodServices/eodata.jsp>), we refined the observations data to reflect important life history stages and/or important species concentration sites (e.g., stopover areas, foraging concentrations, hibernacula).
  5. Entered the EO records and associated attribute information into the Heritage Program's Biotics database (see Table 4 for a list of attribute fields).
  6. Created a bibliography of sources for each data layer (observation points, EO areas and ranges).
  7. Developed maps depicting range, distribution, and when applicable, life history stage or species concentration sites (EOs) for individual species.
  8. Created metadata in accordance with AGDC standards for each data layer.

We developed a project web site that is accessible through the Alaska Natural Heritage Program web-page ([http://aknhp.uaa.alaska.edu/zoology/Zoology\\_ADFG.htm](http://aknhp.uaa.alaska.edu/zoology/Zoology_ADFG.htm)) and is linked to the Alaska Department of Fish and Game's CWCS web site ([http://www.sf.adfg.state.ak.us/statewide/ngplan/NG\\_outline.cfm](http://www.sf.adfg.state.ak.us/statewide/ngplan/NG_outline.cfm)). Species status reports and range and distribution maps for individual species can be downloaded from this site.

## Results

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### *Species Status Reports:*

We developed status reports for 92 of the CWCS featured species: 35 birds, 23 mammals, 10 fishes, 6 amphibians, 1 reptile and 17 invertebrates (Table 1). We consulted numerous experts from throughout Alaska and elsewhere to help improve the quality and accuracy of individual reports (Table 5).

Species status reports are not included as an appendix to this report as they are extremely lengthy when collated. They are available in .pdf format at the project web-site ([http://aknhp.uaa.alaska.edu/zoology/Zoology\\_ADFG.htm](http://aknhp.uaa.alaska.edu/zoology/Zoology_ADFG.htm)) and have also been provided in CD-Rom format to accompany the delivery of this report.

During the course of developing status reports, we reviewed the Heritage Rank conservation status ranks for each species. Information summarized for the status reports greatly improved the quality and quantity of information that went into making ranking decisions. This review resulted in changes to 46 State (S) ranks. Additionally, we assigned state ranks to 28 species that were previously unranked (SNR). We suggested that 12 Global (G) ranks be changed and forwarded these recommendations to NatureServe for review by the chief zoologist. We also made global rank recommendations for 21 species that were previously not included in the NatureServe database.

*Distribution Mapping:*

Range and distribution maps for the 56 featured species are presented in Appendix I. Data sources used to develop maps included published and unpublished literature, museum specimen records, field notes and unpublished data obtained directly from researchers. We also obtained data from a number of existing databases. For birds, we accessed data from the USGS Breeding Bird Survey database and the Christmas Bird Count database. Amphibian data was compiled from the Southeast Alaska Amphibian Observations Database (R. Carstensen, pers. comm.) and the Alaska Atlas of Amphibians and Reptiles (S.O. MacDonald 2005). Appendix II contains a full bibliography of all data sources that were referenced to develop maps and populate the occurrence database.

## Discussion

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All information contained within the species status reports was incorporated into the Heritage Program's Biotics database, making this information available to a wide audience at both state and global levels. Individual species status reports are now accessible on-line through the AKNHP web-site. AKNHP also provides this information as a free service via data requests. All global level information was integrated into the NatureServe Explorer on-line encyclopedia of life (<http://www.natureserve.org/explorer/>). By providing life history, threat and conservation information to researchers, managers and the general public through NatureServe's web portal, we help to support the mission of the CWCS by providing accurate and transparent scientific data to decision makers.

Determining the relative risk of extinction confronting different animal species is essential for setting effective conservation priorities. Updating biological and ecological information for individual species greatly improved the quality of the information used to generate Heritage status ranks. Because Heritage (NatureServe) status ranks adhere to rigorous protocols for assessing species status, they are relied upon by numerous organizations, including federal agencies such as the U.S. Fish and Wildlife Service, U.S. Forest Service, state fish and game agencies, private conservation organizations, and industry groups.

Maps generated during this project represent current and historical knowledge, from a wide variety of sources, regarding the distribution and range of select featured species. These data sets offer the opportunity to graphically portray the overall native species diversity found within the state, as well as to consider regional, ecosystem, or biogeographical patterns exhibited by individuals or groups of organisms. We hope that this information will be used in land use planning decisions and to guide future research and inventory efforts.

## **Literature Cited**

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Alaska Department of Fish and Game. 2006. Our Wealth Maintained: A strategy for Conserving Alaska's Diverse Wildlife and Fish Resources. Alaska Department of Fish and Game, Juneau, Alaska. xviii+824 p.

Table 1. A list of 92 species featured in the CWCS for which AKNHP developed species status reports, 2004-2006. Also included are the global (G-rank) and state (S-rank) status ranks assigned to individual species prior to and post-review. Updated ranks highlighted in bold indicate that the rank was changed during the review process.

	Species	Scientific Name	G Rank prior to review	S Rank prior to review	G Rank reviewed	S Rank reviewed
	<b>BIRDS</b>					
1	Aleutian Tern	<i>Onychoprion aleuticus</i>	G4	S5B	G4	<b>S3B</b>
2	Arctic Tern	<i>Sterna paradisaea</i>	G5	S5	G5	<b>S4B</b>
3	Beringian Marbled Godwit	<i>Limosa fedoa beringiae</i>	G5T3?	S3?B	<b>G5T3B</b>	<b>S2S3B</b>
4	Black Oystercatcher	<i>Haematopus bachmani</i>	G5	S5	G5	<b>S2S3B, S2N</b>
5	Black-legged Kittiwake	<i>Rissa tridactyla</i>	G5	S3N, S5B	G5	S5B, <b>S5N</b>
6	Blackpoll Warbler	<i>Dendroica striata</i>	G5	S3B	G5	<b>S4B</b>
7	Bristle-thighed Curlew	<i>Numenius tahitiensis</i>	G2G3	S2B	<b>G2</b>	S2B
8	Brown Creeper	<i>Certhia americana</i>	G5	S4	G5	S4
9	Cliff Swallow	<i>Hirundo pyrrhonota</i>	G5	S5B	G5	<b>S4B</b>
10	Fork-tailed Storm-petrel	<i>Oceanodroma furcata</i>	G5	S5B, S3N	G5	S5B, <b>S5N</b>
11	Grey-cheeked Thrush	<i>Catharus minimus</i>	G5	S3B	G5	S3B
12	Hermit Thrush	<i>Catharus guttatus</i>	G5	S4B	G5	<b>S5B</b>
13	King Eider	<i>Somateria spectabilis</i>	G5	S2S3B, S2S3N	G5	<b>S3B, S3N</b>
14	Kittlitz's Murrelet	<i>Brachyramphus brevirostris</i>	G3G4	S3	<b>G2</b>	<b>S2B, S2N</b>
15	Leach's Storm-petrel	<i>Oceanodroma leucorhoa</i>	G5	S5B	G5	S5B
16	Lesser Yellowlegs	<i>Tringa flavipes</i>	G5	S5B	G5	S5B
17	Marbled Murrelet	<i>Brachyramphus marmoratus</i>	G3G4	S2S3	G3G4	S2S3
18	Northern Harrier	<i>Accipiter cyaneus</i>	G5	S4?B	G5	<b>S3N, S4B</b>
19	Olive-sided Flycatcher	<i>Contopus cooperi</i>	G4	S3B	G4	<b>S3S4B</b>
20	Pribilof Rock Sandpiper	<i>Calcarius ptilocnemis ptilocnemis</i>	G5T5?	S5?	G5T3	<b>S3B, S2N</b>
21	Queen Charlotte Goshawk	<i>Accipiter gentilis laingi</i>	G5T2	S2B, S2N	G5T2	S2B, S2N
22	Red-faced Cormorant	<i>Phalacrocorax urile</i>	G5	S5	G5	<b>S3S4B, S3S4N</b>
23	Red-legged Kittiwake	<i>Rissa brevirostris</i>	G2G3	S2S3	G2G3	<b>S2S3B, S2N</b>
24	Red-necked Grebe	<i>Podiceps grisegena</i>	G5	S5	G5	<b>S4S5B, S4?N</b>



Table 1 continued.

	Species	Scientific Name	G Rank prior to review	S Rank prior to review	G Rank reviewed	S Rank reviewed
25	Red-throated Loon	<i>Gavia stellata</i>	G5	S3B, S3N	G5	S3B, <b>S2S3N</b>
26	Rusty Blackbird	<i>Euphagus carolinus</i>	G5	S4B	G4	<b>S3S4B</b> , S3N
27	Short-eared Owl	<i>Asio flammeus</i>	G5	S5B, S3N	G5	<b>S4S5B</b>
28	Smith's Longspur	<i>Calcarius pictus</i>	G5	S3?B	G5	<b>S3S4B</b>
29	Snowy Owl	<i>Bubo scandiacus</i>	G5	S4	G5	<b>S3B</b> , S3N
30	Solitary Sandpiper	<i>Tringa solitaria</i>	G5	S4B	G5	<b>S2B</b>
31	Townsend's Warbler	<i>Dendroica townsendi</i>	G5	S3B	G5	<b>S5B</b>
32	Violet-green Swallow	<i>Tachycineta thalassina</i>	G5	S5B	G5	<b>S4B</b>
33	Wandering Tattler	<i>Heteroscelus incanus</i>	G5	S4B	G5	<b>S3B</b>
34	White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	G5	S3N, S5B	G5	S5B
35	Yellow-billed Loon	<i>Gavia adamsii</i>	G4	S3B, S3N	G4	<b>S2B</b> , <b>S2S3N</b>
	<b>TERRESTRIAL MAMMALS</b>					
36	Alaska marmot	<i>Marmota broweri</i>	G4	S4	G4	S4
37	Big brown bat	<i>Eptesicus fuscus</i>	G4	S4	<b>G5</b>	<b>SNA</b>
38	California myotis	<i>Myotis californicus</i>	G5	S2?	G5	<b>S1S3</b>
39	Collared lemming	<i>Dicrostonyx groenlandicus</i>	G5	S4	G5	S4
	St. Lawrence Island collared lemming	<i>D. g. exsul</i>	G5T4	S4	<b>G5T3</b>	<b>S3</b>
	Umnak Island collared lemming	<i>D. g. stevensoni</i>	GNR	SNR	<b>G5T3</b>	S3
	Unalaska Island collared lemming	<i>D. g. unalascensis</i>	GNR	SNR	<b>G5T3</b>	<b>S3</b>
40	Ermine	<i>Mustela erminea</i>	G5	S?	G5	S5
	Suemez Island ermine	<i>M. e. seclusa</i>	G5T2?Q	S2S3Q	<b>G5T2T3</b>	<b>S2S3</b>
	Prince of Wales Island ermine	<i>M. e. celenda</i>	G5T4?	S4?	G5T4?	<b>S3Q</b>
	Kodiak Island ermine	<i>M. e. kadiacensis</i>	G5T4?	S4?	<b>G5T4</b>	<b>S4</b>
	Baranof Island ermine	<i>M. e. initis</i>	G5T3T4	S3S4	<b>G5T3</b>	<b>S3</b>
	Admiralty Island ermine	<i>M. e. salva</i>	G5T3T4	S3S4	<b>G5T3</b>	<b>S3</b>
41	Keen's myotis	<i>Myotis keenii</i>	G2G3	SH	G2G3	<b>S1S3</b>
42	Little brown bat	<i>Myotis lucifugus</i>	G5	S4?	G5	<b>S3S4</b>
43	Long-legged bat	<i>Myotis volans</i>	G5	SNR	G5	<b>S1S3</b>
44	Pribilof Island shrew	<i>Sorex pribilofensis</i>	G3	S2?	G3	<b>S3</b>
45	Prince of Wales flying squirrel	<i>Glaucomys sabrinus griseifrons</i>	G5T2?Q	S2?Q	<b>G5T2</b>	<b>S2</b>
46	Silver-haired bat	<i>Lasionycteris noctivagans</i>	G5	S3?B	G5	<b>S1S3</b>

Table 1 continued.

	Species	Scientific Name	G Rank prior to review	S Rank prior to review	G Rank reviewed	S Rank reviewed
47	St. Lawrence Island shrew	<i>Sorex jacksoni</i>	G3	S3	G3	S3
48	Tundra hare	<i>Lepus othus</i>	G4?	S4?	<b>G3G4</b>	<b>S3S4</b>
49	Wrangell Island red-backed vole	<i>Myodes gapperi wrangeli</i>	G5T2T3	S2S3	G5T2T3	S2S3
	<b>MARINE MAMMALS</b>					
50	Beluga - Cook Inlet pop. 4	<i>Delphinapterus leucas Pop 4</i>	G4T1T2	SNR	<b>G4T1</b>	<b>S1</b>
51	Bowhead	<i>Balaena mysticetus</i>	G4	S2	<b>G3</b>	<b>S3</b>
52	Harbor seal	<i>Phoca vitulina richardsi</i>	G5T5Q	S3?	G5T5Q	<b>S4S5</b>
53	Northern fur seal	<i>Callorhinus ursinus</i>	G3G4	S3	<b>G3</b>	S3
54	Northern Pacific right whale	<i>Eubalaena glacialis</i>	G1	S1	G1	S1
55	Northern sea otter	<i>Enhydra lutris kenyoni</i>	G4T4	S2S3	G4T4	S2S3
56	Pacific walrus	<i>Odobenus rosmarus</i>	G4	S?	G4	<b>S4</b>
57	Polar bear	<i>Ursus maritimus</i>	G4	SNR	<b>G3G4</b>	<b>S3</b>
58	Sperm whale	<i>Physeter macrocephalus</i>	G3G4	SNR	G3G4	<b>S2S3</b>
	<b>FISHES</b>					
59	Alaskan brook lamprey	<i>Lampetra alaskensis</i>	GNR	SNR	<b>G3Q</b>	<b>S3Q</b>
60	Arctic cod	<i>Boreogadus saida</i>	GNR	SNR	<b>G5</b>	<b>S4S5</b>
61	Arctic lamprey	<i>Lampetra camtschatica</i>	G4	S4S5	G4	<b>S4</b>
62	Capelin	<i>Mallotus villosus</i>	GNR	SNR	<b>G5</b>	<b>S5</b>
63	Crescent gunnel	<i>Pholis laeta</i>	GNR	SNR	<b>G5</b>	<b>S4S5</b>
64	Prowfish	<i>Zaprora silenus</i>	GNR	SNR	<b>G4G5</b>	<b>S3S5</b>
65	River lamprey	<i>Lampetra ayresii</i>	G4	S3	G4	<b>S2</b>
66	Threespine stickleback	<i>Gasterosteus aculeatus</i>	G5	S5	G5	S5
67	Trout perch	<i>Percopsis omniscomaycus</i>	G5	S3	G5	S3
68	Western brook lamprey	<i>Lampetra richardsoni</i>	G5	S1?	G4G5	<b>S1S2</b>
	<b>AMPHIBIANS</b>					
69	Columbia spotted frog	<i>Rana luteiventris</i>	G2G3	S2?	<b>G4</b>	S2?
70	Long-toed salamander	<i>Ambystoma macrodactylum</i>	G5	S2?	G5	S2?
71	Northwestern salamander	<i>Ambystoma gracile</i>	G5	S2?	G5	S2?
72	Roughskin newt	<i>Taricha granulosa</i>	G5	S2?	G5	S2?
73	Western toad	<i>Bufo boreas</i>	G4	S3?	G4	S2?

Table 1 continued.

	Species	Scientific Name	G Rank prior to review	S Rank prior to review	G Rank reviewed	S Rank reviewed
74	Wood frog	<i>Rana sylvatica</i>	G5	S3S4	G5	S3S4
	<b>INVERTEBRATES</b>					
75	A cave amphipod	<i>Stygobromus quatsinensis</i>	G2G3	SNR	G2G3	<b>S2S3</b>
76	A chaetognath	<i>Sagitta elegans</i>	GNR	SNR	<b>G5</b>	<b>S5</b>
77	A lugworm	<i>Arenicoala pacifica</i>	GNR	SNR	<b>G5</b>	<b>S4S5</b>
78	A mayfly	<i>Rhithrogena ingalik</i>	GNR	SNR	<b>G1G3</b>	<b>S1S3</b>
79	Baltic macoma	<i>Macoma baltica</i>	GNR	SNR	<b>G5</b>	<b>S5</b>
80	Black Katy chiton	<i>Katharina tunicata</i>	GNR	SNR	<b>G5</b>	<b>S5</b>
81	Eelgrass shrimp	<i>Hippolyte clarki</i>	GNR	SNR	<b>G5</b>	<b>S5</b>
82	Eskimo arctic butterfly	<i>Oeneis alpina</i>	GNR	SNR	<b>G3G4</b>	<b>S3</b>
83	Gordon's grasshopper	<i>Melanoplus gordonae</i>	GNR	SNR	<b>G1G3</b>	<b>S1</b>
84	Gorgonian corals	<i>Gorgonacea</i>	GNR	SNR	not ranked	not ranked
85	Gumboot chiton	<i>Cryptochiton stelleri</i>	GNR	SNR	<b>G5</b>	<b>S5</b>
86	Pinto abalone	<i>Haliotis kamtschatkana</i>	GNR	SNR	<b>G3G4</b>	<b>S2S3</b>
87	Ram's-horn valvata	<i>Valvata mergella</i>	GNR	SNR	<b>G2</b>	<b>S1</b>
88	Sitka periwinkle	<i>Littorina sitkana</i>	GNR	SNR	GNR	<b>S5</b>
89	Treeline emerald dragonfly	<i>Somatochlora sahlbergi</i>	G4	S?	G4	<b>S3S4</b>
90	Yukon floater mussel	<i>Anodonta beringiana</i>	G4	SNR	G4	<b>S3S4</b>
91	Zerene fritillary butterfly	<i>Speyeria zerene</i>	GNR	SNR	<b>G5</b>	<b>S2</b>
	<b>REPTILES</b>					
92	Leatherback sea turtle	<i>Dermochelys coriacea</i>	G2	SNA	G2	<b>S2</b>

Table 2. Listed below are definitions for interpreting NatureServe global (G-ranks) and state (S-ranks) conservation status ranks. Global ranks reflect an assessment of the condition of the species across its entire range. State ranks reflect an assessment of the condition of the species across its state range .

Rank	Definition
<b>GX / SX</b>	<b>Presumed Extinct</b> (species)— Not located despite intensive searches and virtually no likelihood of rediscovery.
<b>GH / SH</b>	<b>Possibly Extinct</b> (species)— Missing; known from only historical occurrences but still some hope of rediscovery.
<b>G1 / S1</b>	<b>Critically Imperiled</b> —At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
<b>G2 / S2</b>	<b>Imperiled</b> —At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
<b>G3 / S3</b>	<b>Vulnerable</b> —At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
<b>G4 / S4</b>	<b>Apparently Secure</b> —Uncommon but not rare; some cause for long-term concern due to declines or other factors.
<b>G5 / S5</b>	<b>Secure</b> —Common; widespread and abundant.

#### Variant Ranks

Rank	Definition
<b>G#G#</b>	<b>Range Rank</b> —A numeric range rank (e.g., G2G3) is used to indicate the range of uncertainty in the status of a species or community. A G2G3 rank would indicate that there is a roughly equal chance of G2 or G3 and other ranks are much less likely. Ranges cannot skip more than one rank (e.g., GU should be used rather than G1G4).
<b>GNR</b>	<b>Unranked</b> —Global rank not yet assessed.
<b>GNA</b>	<b>Not Applicable</b> —A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

#### Rank Qualifiers

Rank	Definition
<b>?</b>	<b>Inexact Numeric Rank</b> —Denotes some uncertainty about the numeric rank (e.g. G3? - Believed most likely a G3, but some chance of either G2 or G4).
<b>Q</b>	<b>Questionable taxonomy</b> —Taxonomic distinctiveness of this entity at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or the inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority conservation priority.
<b>C</b>	<b>Captive or Cultivated Only</b> —At present extant only in captivity or cultivation, or as a reintroduced population not yet established.

Table 3. List of CWCS “Featured Species” for which range and distribution maps were created.

	Species	Scientific Name	S Rank
	<b>BIRDS</b>		
1	Aleutian Tern	<i>Onychoprion aleuticus</i>	S3B
2	Beringian Marbled Godwit	<i>Limosa fedoa beringiae</i>	S2S3B
3	Black Oystercatcher	<i>Haematopus bachmani</i>	S2S3B, S2N
4	Bristle-thighed Curlew	<i>Numenius tahitiensis</i>	S2B
5	Grey-cheeked Thrush	<i>Catharus minimus</i>	S3B
6	King Eider	<i>Somateria spectabilis</i>	S3B, S3N
7	Kittlitz's Murrelet	<i>Brachyramphus brevirostris</i>	S2B, S2N
8	Marbled Murrelet	<i>Brachyramphus marmoratus</i>	S2S3
9	Olive-sided Flycatcher	<i>Contopus cooperi</i>	S3S4B
10	Pribilof Rock Sandpiper	<i>Calcarius ptilocnemis ptilocnemis</i>	S3B, S2N
11	Queen Charlotte Goshawk	<i>Accipiter gentilis laingi</i>	S2B, S2N
12	Red-faced Cormorant	<i>Phalacrocorax urile</i>	S3S4B, S3S4N
13	Red-legged Kittiwake	<i>Rissa brevirostris</i>	S2S3B, S2N
14	Rusty Blackbird	<i>Euphagus carolinus</i>	S3S4B, S3N
15	Smith's Longspur	<i>Calcarius pictus</i>	S3S4B
16	Snowy Owl	<i>Nyctea scandiaca</i>	S3B, S3N
17	Solitary Sandpiper	<i>Tringa solitaria</i>	S2B
18	Wandering Tattler	<i>Tringa incana</i>	S3B
	<b>MAMMALS</b>		
19	Alaska Marmot	<i>Marmota broweri</i>	S4
20	Beluga whale - Cook Inlet pop. 4	<i>Delphinapterus leucas Pop 4</i>	S1
21	Bowhead	<i>Balaena mysticetus</i>	S3
22	California myotis	<i>Myotis californicus</i>	S2S3
23	Collared lemming	<i>Dicrostonyx groenlandicus</i>	S4
24	Keen's myotis	<i>Myotis keenii</i>	S21S3
25	Little brown bat	<i>Myotis lucifugus</i>	S3S4
26	Long-legged bat	<i>Myotis volans</i>	S2?B
27	Northern fur seal	<i>Callorhinus ursinus</i>	S3
28	Northern Pacific right whale	<i>Eubalaena glacialis</i>	S1
29	Northern sea otter	<i>Enhydra lutris kenyoni</i>	S2S3
30	Pacific walrus	<i>Odobenus rosmarus</i>	S4
31	Polar bear	<i>Ursus maritimus</i>	S3
32	Pribilof Island shrew	<i>Sorex hydrodromus</i>	S3
33	Prince of Wales flying squirrel	<i>Glaucomys sabrinus griseifrons</i>	S3
34	Silver-haired bat	<i>Lasionycteris noctivagans</i>	S1S3

Table 3 continued. List of CWCS "Featured Species" for which range and distribution maps were developed.

	<b>Species</b>	<b>Scientific Name</b>	<b>S Rank</b>
35	Sperm whale	<i>Physeter macrocephalus</i>	S2S3
36	St. Lawrence Island shrew	<i>Sorex jacksoni</i>	S3
37	Wrangell Island red-backed vole	<i>Myodes gapperi wrangeli</i>	S2S3
	<b>FISHES</b>		
38	Alaskan Brook lamprey	<i>Lampetra alaskensis</i>	S3Q
39	Arctic lamprey	<i>Lampetra camtschatica</i>	S4
40	River lamprey	<i>Lampetra ayresii</i>	S2
41	Trout perch	<i>Percopsis omniscomaycus</i>	S3Q
42	Western Brook lamprey	<i>Lampetra richardsoni</i>	S1S2
	<b>AMPHIBIANS</b>		
43	Columbia spotted frog	<i>Rana luteiventris</i>	S2?
44	Long-toed salamander	<i>Ambystoma macrodactylum</i>	S2?
45	Northwestern salamander	<i>Ambystoma gracile</i>	S2?
46	Roughskin newt	<i>Taricha granulosa</i>	S2?
47	Western toad	<i>Bufo boreas</i>	S2?
48	Wood frog	<i>Rana sylvatica</i>	S3S4
	<b>INVERTEBRATES</b>		
49	A cave amphipod	<i>Stygobromus quatsinensis</i>	S2S3
50	A mayfly	<i>Rhithrogena ingalik</i>	S1S3
51	Gordon's grasshopper	<i>Melanoplus gordonae</i>	S1
52	Pinto abalone	<i>Haliotis kamtschatkana</i>	S2S3
53	Ram's-horn valvata	<i>Valvata mergella</i>	S1
54	Treeline emerald dragonfly	<i>Somatochlora sahlbergi</i>	S3S4
55	Yukon floater mussel	<i>Anodonta beringiana</i>	S3S4
	<b>REPTILES</b>		
56	Leatherback	<i>Dermochelys coriacea</i>	S2

Table 4. List of attribute fields and definitions used to develop element occurrences.

FIELD NAME	DEFINITION
SCI_NAME	Scientific name
COM_NAME	Common name
G_RANK	Global Heritage Status Ranks (G1 - G5)
S_RANK	State Heritage Status Ranks (S1-S5)
EL_CODE	Heritage Program Element (Species) Code
DATA_SENS	Indicates if the data is sensitive to public use
SITE_NAME	Site name of the nearest named location
DIRECTIONS	Directions to site, more specific site names
LAT_DD	Latitude decimal degrees
LONG_DD	Longitude decimal degrees
DATUM	Datum of coordinates (NAD27 or NAD83)
COORD_SOUR	Source of coordinates
	LATLONG = latitude and longitude provided by source
	UTM = UTM coordinates provided by source
	MAP = coordinates obtained from map in source
	DESCRIPTION = mapped in ARCGIS or TOPOZONE using a description of location; directions used
	AK PLACES = coordinates assigned from AK place names dataset; site name used
ACCURACY_M	The accuracy of the coordinates in meters. If no accuracy is provided use 100, 2000, 10000 meters based on the description of the location.
PRECISION	The precision of the location and implied accuracy of the resultant mapped location.
	S = SECONDS = within 100 m
	M = MINUTES = within 2000 m
	G = GENERAL = within 10 km
	U = UNKNOWN = unknown
OBSERVER	Observer(s) name
REFERENCE	Short citation for data source
RSOURCE_CO	Alaska Natural Heritage Program database reference code for data source
DATE_	Observation or collection date (first date in range of dates)
YEAR_RANGE	Year or range of years particular record was observed or collected
OTHER_DATE	Other dates particular record was observed or collected
ABUND_COMM	Comments referring to abundance data
SURVEY_MET	Survey method used
EO_TYPE	Type of Observation
MIN_ELEVAT	Minimum elevation
ESA_STAT	Endangered Species Act Status
SPECIMEN	Indicates if a specimen was collected
COLL_COMM	Collector name, specimen ID# number if provided and other comments on the specimen collected
LIFE_STAGE	Life history stage - e.g. adult, subadult, egg mass
HAB_COMM	Habitat comments
GEN_COMM	General comments

Table 5. List of featured species, expert reviewer's and reviewer's affiliation.

Species	Reviewer (s)	Reviewer Affiliation
<b>BIRDS</b>		
Aleutian Tern	Bob Gill	USGS, Alaska Science Center, Anchorage, AK
Arctic Tern	Jeremy Hatch	University of Massachusetts at Boston, Boston, MA
Black Oystercatcher	David Tessler	Nongame program, ADFG, Anchorage, AK
Black-legged Kittiwake	David Irons	USFWS, Anchorage, AK
Blackpoll Warbler	Dan Gibson	University of Alaska Museum, Fairbanks, AK
Bristle-thighed Curlew	Bob Gill	USGS, Alaska Science Center, Anchorage, AK
Brown Creeper	Dan Gibson	University of Alaska Museum, Fairbanks, AK
Cliff Swallow	Charles Brown	University of Oklahoma at Tulsa, Tulsa, OK
Fork-tailed Storm-petrel	P. Dee Boersma	UW, Seattle, WA
Grey-cheeked Thrush	Steve Matsuoka	Migratory Bird Management, USFWS, Anchorage, AK
Hermit Thrush	Mary Willson	Juneau, AK
Kittlitz's Murrelet	Kathy Kuletz, Tom Van Pelt	Migratory Bird Management, USFWS, Anchorage, AK
Leach's Storm-petrel	G. Vernon Byrd, Arthur Kettle	AK Maritime NWR, USFWS, Homer, AK
Lesser Yellowlegs	Lee Tibbitts	USGS, Alaska Science Center, Anchorage, AK
Northern Harrier	Carol McIntyre	Denali National Park, NPS, Denali Park, AK
Olive-sided Flycatcher	John Wright	Alaska Bird Observatory, Fairbanks, AK
Pribilof Rock Sandpiper	Stan Senner	Audubon Alaska, Anchorage, AK
Queen Charlotte Goshawk	Kim Titus	Alaska Department of Fish and Game, AK
Red-faced Cormorant	Douglas Causey	Museum of Comparative Zoology, Harvard University, Cambridge, MA
Red-legged Kittiwake	G. Vernon Byrd	AK Maritime NWR, USFWS, Homer, AK
Red-necked Grebe	Tamara Mills	Migratory Bird Management, USFWS, Anchorage, AK
Red-throated Loon	Joel Schmutz	Alaska Biological Science Center, USGS, Anchorage, AK
Rusty Blackbird	Chris Harwood	Kanuti NWR, USFWS, Fairbanks, AK
Short-eared Owl	Jack Whitman	Nongame program, ADFG, Fairbanks, AK
Smith's Longspur	Debbie Nigro, Melanie Cook	BLM, Fairbanks, AK; NPS, AK
Snowy Owl	Jack Whitman	Alaska Department of Fish and Game, AK
Solitary Sandpiper	Lee Tibbitts	USGS, Alaska Science Center, Anchorage, AK
Townsend's Warbler	Steve Matsuoka	Migratory Bird Management, USFWS, Anchorage, AK
Violet-green Swallow	Charles Brown	University of Oklahoma at Tulsa, Tulsa, OK
Wandering Tattler	Bob Gill	USGS, Alaska Science Center, Anchorage, AK
Yellow-billed Loon	Susan Earnst	USGS Forest and Rangeland Ecosystem Science Center, ID



Table 5 continued. List of featured species, expert reviewer's and reviewer's affiliation.

Species	Reviewer (s)	Reviewer Affiliation
<b>TERRESTRIAL MAMMALS</b>		
Alaska marmot	Stephen MacDonald	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM
Big brown bat	John Hayes, Julia Boland	Oregon State University, Corvallis, OR
California myotis	John Hayes, Julia Boland	Oregon State University, Corvallis, OR
Collared lemming	Stephen MacDonald	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM
Ermine	Stephen MacDonald	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM
Keen's myotis	John Hayes, Julia Boland	Oregon State University, Corvallis, OR
Little brown bat	John Hayes, Julia Boland	Oregon State University, Corvallis, OR
Long-legged bat	John Hayes, Julia Boland	Oregon State University, Corvallis, OR
Prince of Wales flying squirrel	Stephen MacDonald	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM
Silver-haired bat	John Hayes, Julia Boland	Oregon State University, Corvallis, OR
St. Lawrence Island shrew		
Wrangell Island red-backed vole	Stephen MacDonald	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM
<b>MARINE MAMMALS</b>		
Beluga - Cook Inlet pop. 4	Brad Smith, Kim Shelden, Dave Rugh	Protected Resources Division, NOAA; Alaska Fisheries Science Center, NOAA, Seattle, WA; National Marine Mammal Laboratory, NOAA
Bowhead	Steve MacLean	The Nature Conservancy, Anchorage, AK
Northern Pacific right whale	Phil Clapham, Kim Shelden	Northeast Fisheries Science Center, Woods Hole, MA; Alaska Fisheries Science Center, NOAA, Seattle, WA
Northern sea otter	Angela Doroff	Marine Mammals Management, USFWS, Anchorage, AK
Pacific walrus	David Tessler	Nongame program, ADFG, Anchorage, AK
Polar bear	Steven Amstrup	Alaska Biological Science Center, USGS, Anchorage, AK
Sperm whale	Jan Straley	University of Alaska Southeast, Juneau, AK
<b>FISHES</b>		
Alaskan brook lamprey	Claude Renaud	Canadian Museum of Nature, University of Ottawa, Ottawa, ONT
Arctic cod	Mike Kelly	Environment and Natural Resources Institute, University of Alaska Anchorage, Anchorage, AK

Table 5 continued. List of featured species, expert reviewer's and reviewer's affiliation.

Species	Reviewer (s)	Reviewer Affiliation
Arctic lamprey	Claude Renaud	Canadian Museum of Nature, University of Ottawa, Ottawa, ONT
Capelin	Bruce Wright, Mayumi Arimitsu	Conservation Science Institute, Wasilla, AK; USGS, Juneau, AK
Crescent gunnel	Grant Hughes	Royal BC Museum, Victoria, BC
Prowfish	Catherine Mecklenburg	Point Stephens Research, Auke Bay, AK
River lamprey	Richard Beamish	Pacific Biological Station, Fisheries and Oceans Canada, Nanaimo, BC
Threespine stickleback	Frank von Hippel	University of Alaska Anchorage, Anchorage, AK
Western brook lamprey	Richard Beamish	Pacific Biological Station, Fisheries and Oceans Canada, Nanaimo, BC
<b>AMPHIBIANS</b>		
Columbia spotted frog	Stephen MacDonald, Blain Anderson	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM; NPS, Anchorage, AK
Long-toed salamander	Stephen MacDonald, Blain Anderson	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM; NPS, Anchorage, AK
Northwestern salamander	Stephen MacDonald, Blain Anderson	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM; NPS, Anchorage, AK
Roughskin newt	Stephen MacDonald, Blain Anderson	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM; NPS, Anchorage, AK
Western toad	Stephen MacDonald, Blain Anderson	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM; NPS, Anchorage, AK
Wood frog	Stephen MacDonald, Blain Anderson	Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM; NPS, Anchorage, AK
<b>INVERTEBRATES</b>		
A cave amphipod	Kent Carlson	Karst Biosciences, Middletown, MD
A chaetognath	Christine Baier	Alaska Fisheries Science Center, NOAA, Seattle, WA
A mayfly	Dan Rinella, Dan Bogan	Environment and Natural Resources Institute, University of Alaska Anchorage, Anchorage, AK
Baltic macoma	M. Dethier	Friday Harbor Laboratories, University of Washington, Seattle, WA
Black Katy chiton	Nora Foster	University of Alaska Fairbanks, Fairbanks, AK
Eelgrass shrimp	Bruce Wing	Auke Bay Laboratory, NOAA, Juneau, AK

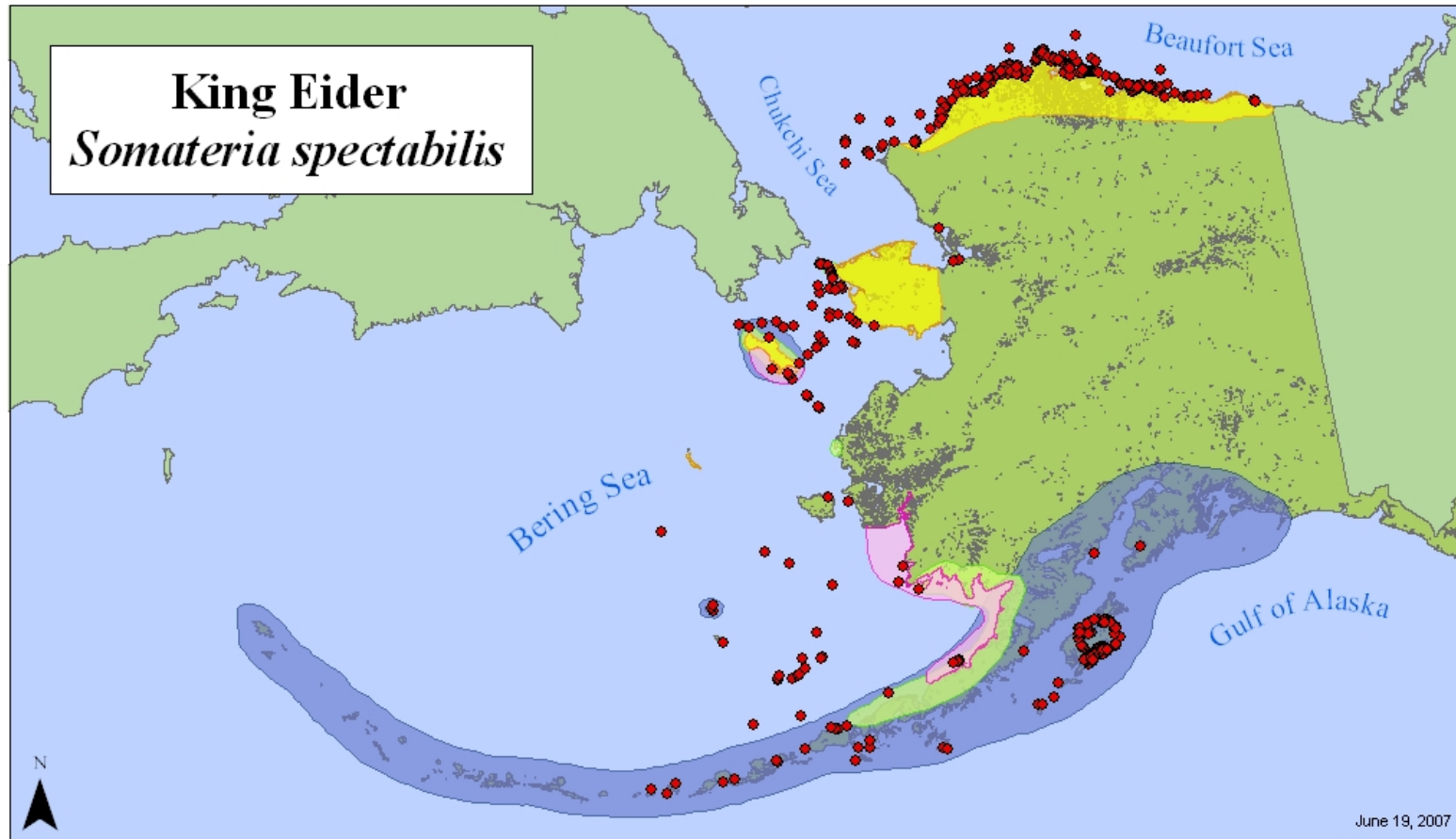
Table 5 continued. List of featured species, expert reviewer's and reviewer's affiliation.

Species	Reviewer (s)	Reviewer Affiliation
Eskimo arctic butterfly	Kenelm Philip	Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK
Gordon's grasshopper	Dennis Fielding	USDA, Fairbanks, AK
Gorgonian corals	Jon Heifetz	Auke Bay Laboratory, NOAA, Juneau, AK
Gumboot chiton	Ginny Eckert	University of Alaska Southeast, Juneau, AK
Pinto abalone	Anne Salomon	University of Washington
Ram's-horn valvata	Terrence Frest	Deixis Consultants, Seattle, WA
Sitka periwinkle	E. G. Boulding, H. J. Lee	University of Guelph, Guelph, ONT
Treeline emerald dragonfly	Syd Cannings	NatureServe Yukon, Whitehorse, YT
Yukon floater mussel	Steve Smith	University of Alaska Anchorage, Anchorage, AK
Zerene fritillary butterfly	Kenelm Philip	Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK
<b>REPTILES</b>		
Leatherback sea turtle	Cheryl Ryder	NMFS, Seattle, WA

## **RANGE AND DISTRIBUTION MAPS**

### **Appendix I**

#### **Birds**



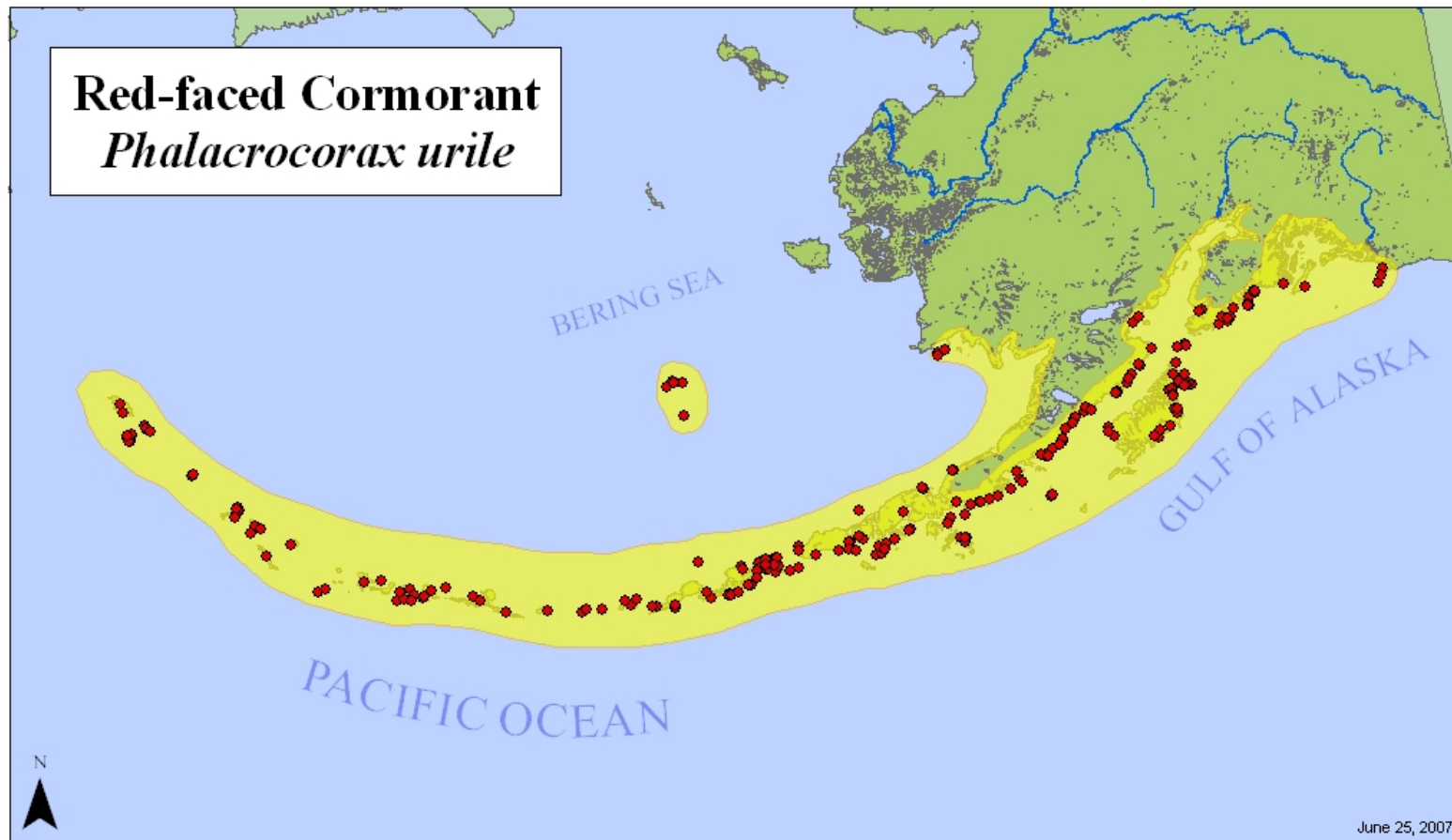
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Alaska Albers Equal Area Conic Projection  
0 120 240 480 720 960 Kilometers

### King Eider Occurrences in Alaska

- Observations
- Winter Range
- Spring Staging Range
- Molting Range
- Breeding Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Red-faced Cormorant Occurrences in Alaska

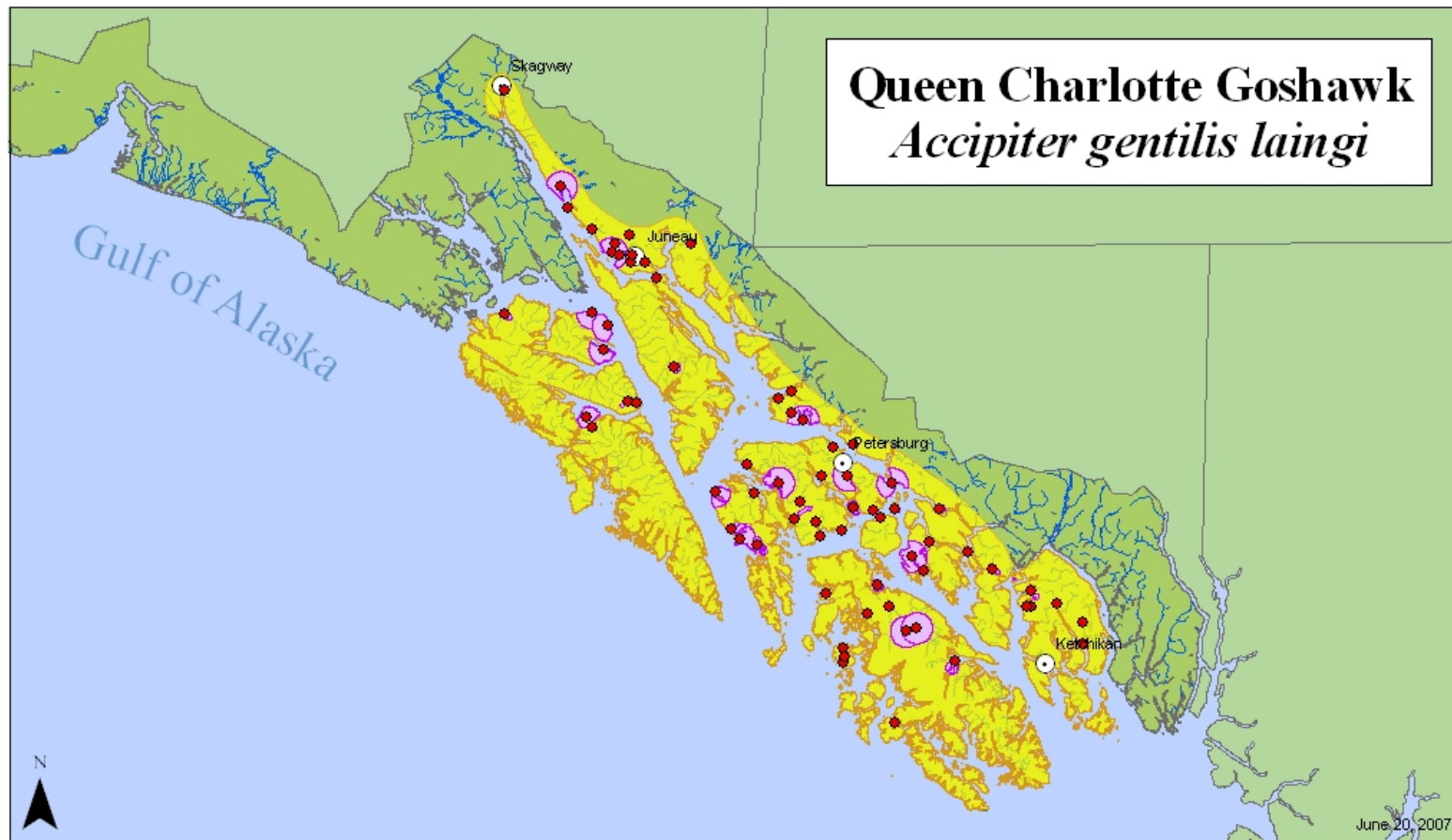
• Breeding Observations

Range

Scale 1:11,488,290  
Alaska Albers Equal Area Conic Projection  
0 100 200 400 600 800  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



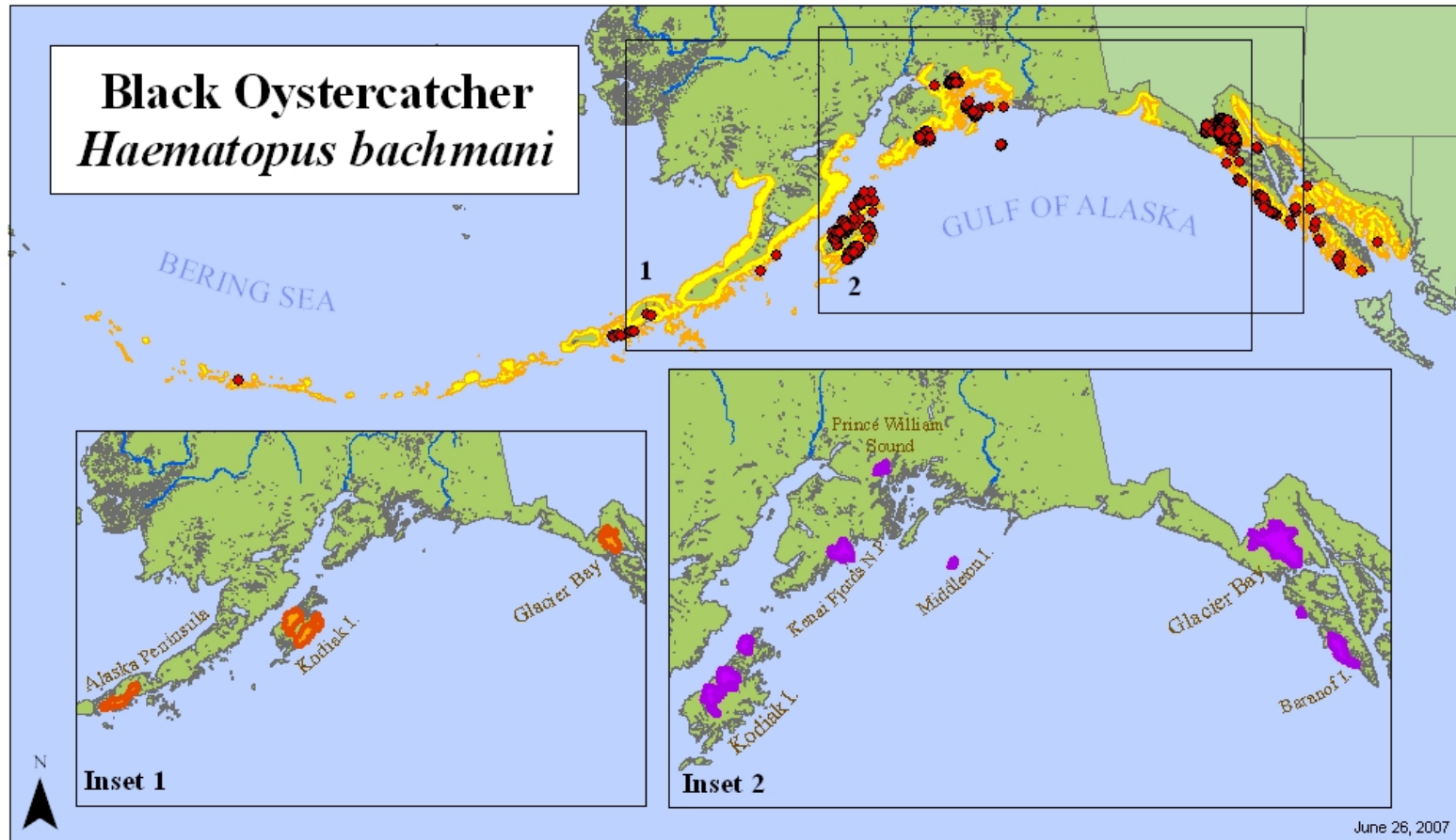
### Queen Charlotte Goshawk Occurrences in Alaska

- Nest Observations
- ◻ AKNHP Breeding Element Occurrences
- ◻ Range

Scale 1:3,483,956  
Alaska Albers Equal Area Conic Projection  
0 30 60 120 180 240  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Black Oystercatcher Occurrences in Alaska

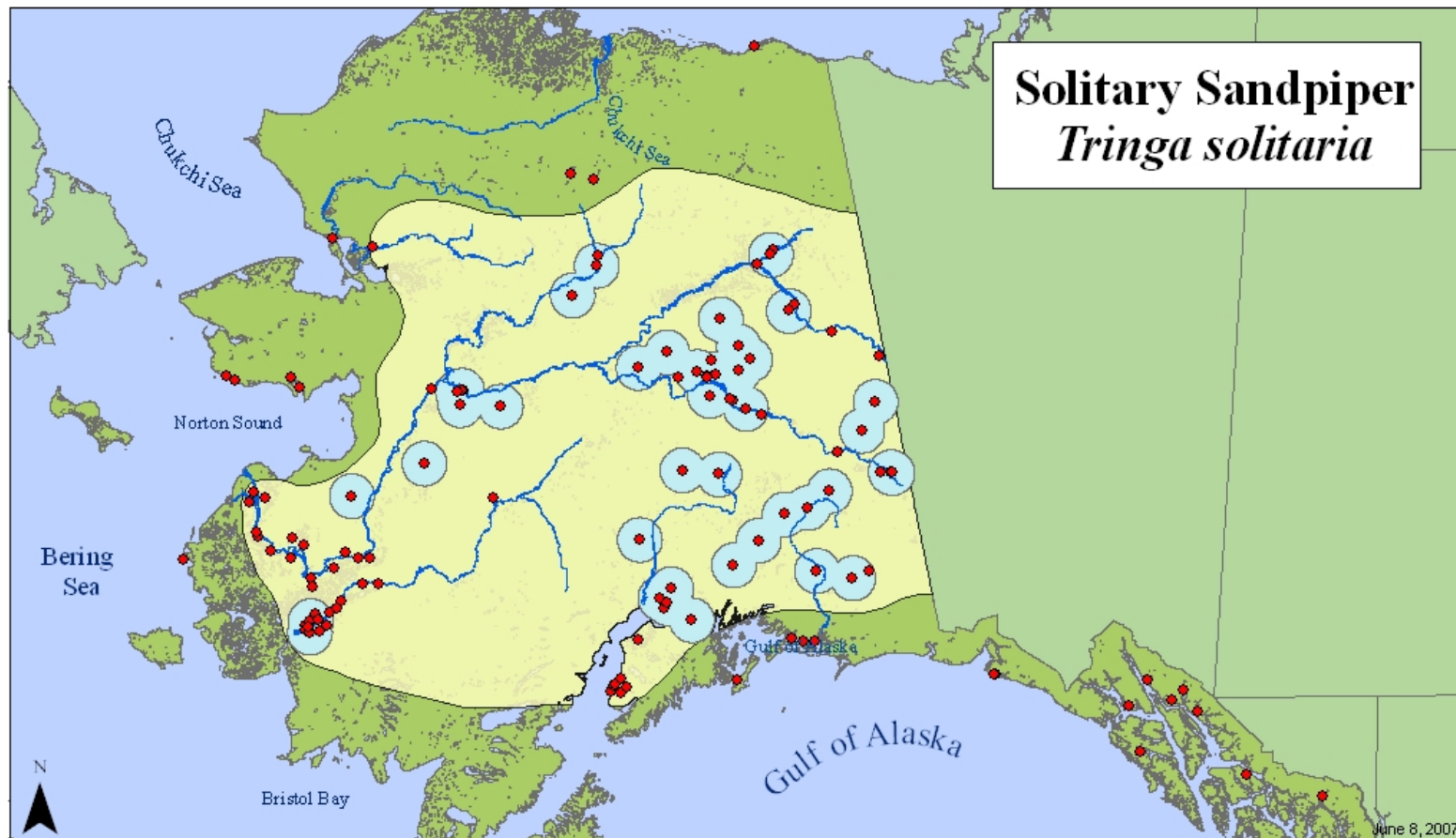
- Observations
- Range
- AKNHP Breeding Element Occurrences
- AKNHP Nonbreeding Element Occurrences

Scale 1:14,029,900 (main map)  
Alaska Albers Equal Area Conic Projection  
0 120 240 480 720 960  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



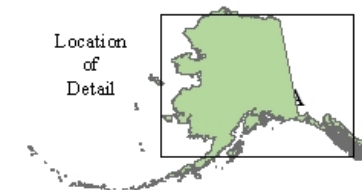


### Solitary Sandpiper Occurrences in Alaska

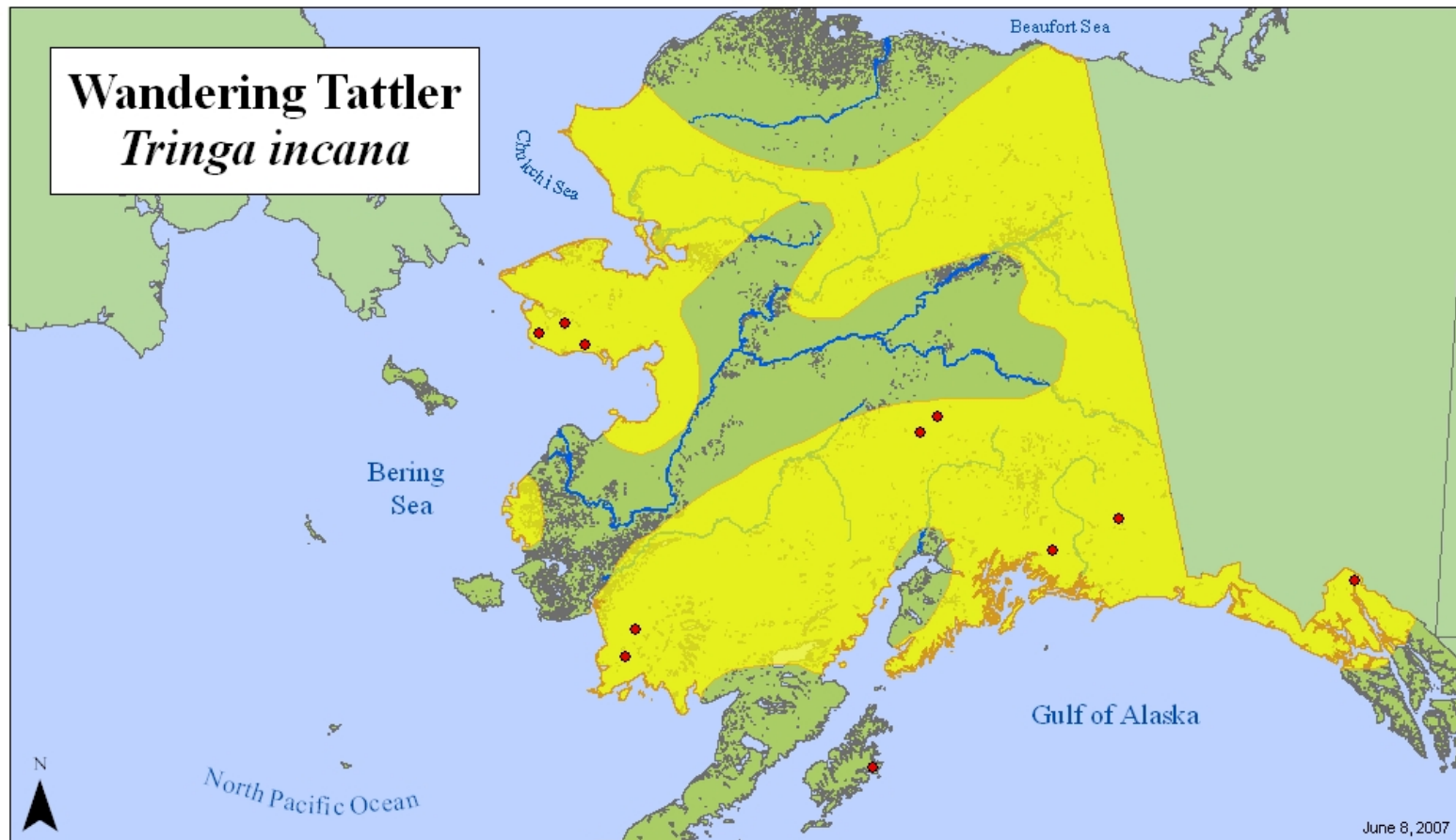
- Observations
- AKNHP Breeding Element Occurrences
- Breeding Range

Scale 1:9,681,816  
Alaska Albers Equal Area Conic Projection  
0 85 170 340 510 680  
Kilometers

Location  
of  
Detail



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



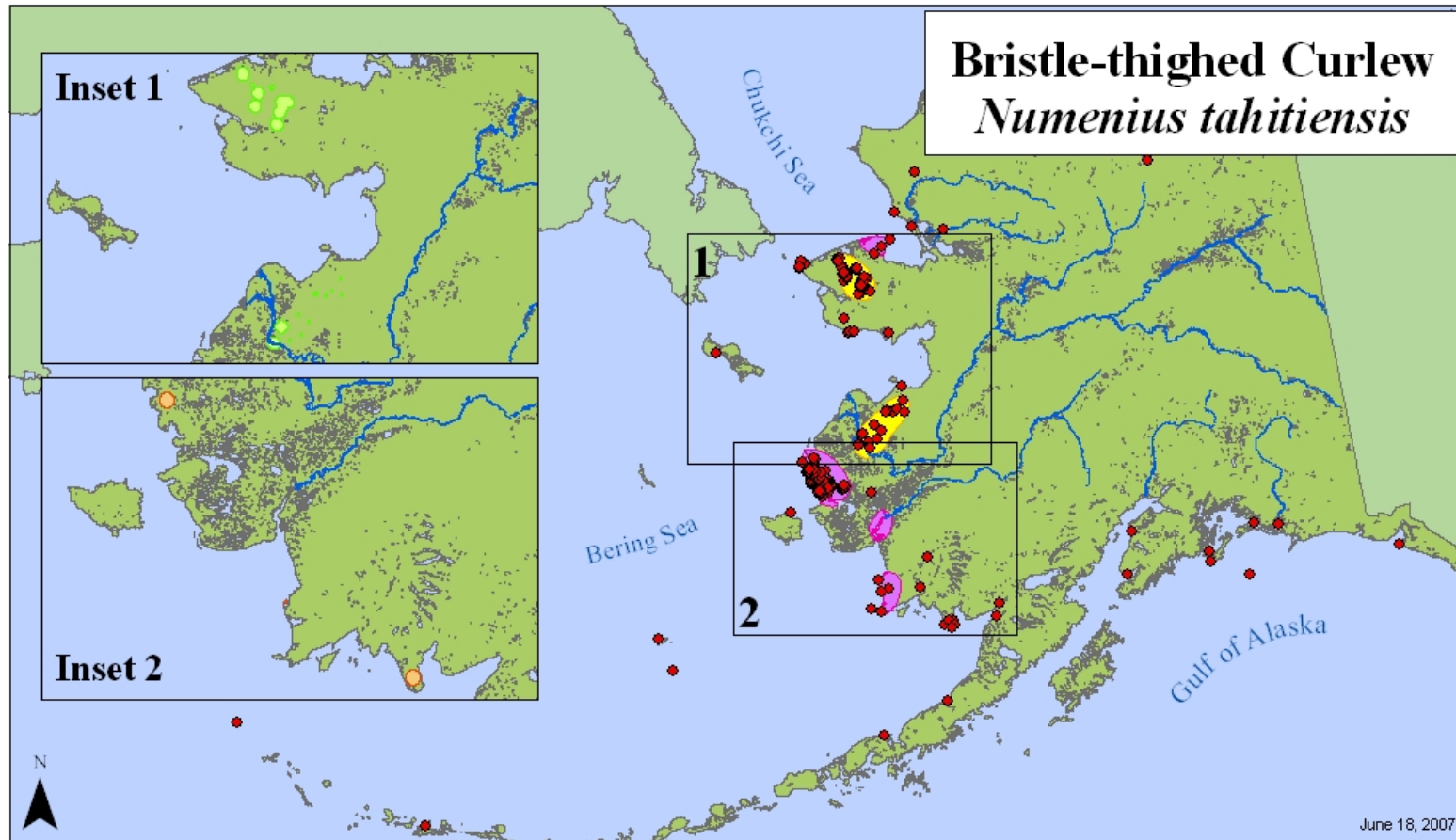
### Wandering Tattler Occurrences in Alaska

- North American BBS Observations
- Breeding Range



Scale 1:10,736,200  
Alaska Albers Equal Area Conic Projection  
0 95 190 380 570 760  
Kilometers

This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



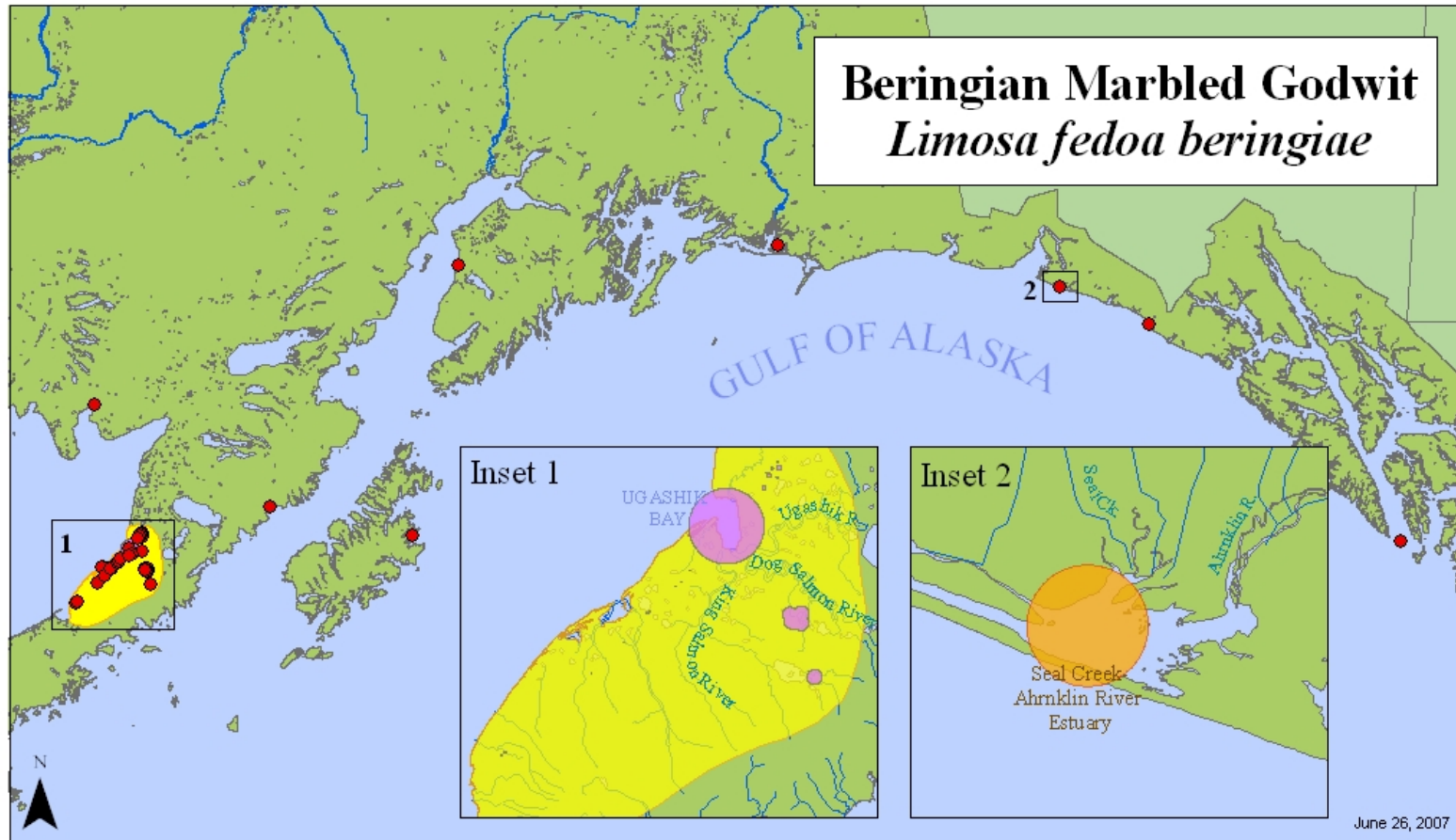
### Bristle-thighed Curlew Occurrences in Alaska

- Observations
- AKNHP Breeding Element Occurrences
- AKNHP Staging Concentration Element Occurrences
- Post-breeding Staging Range
- Breeding Range

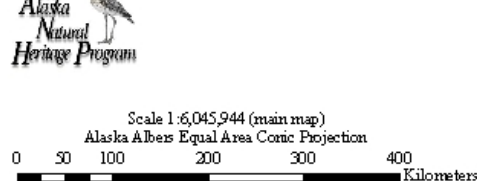


Scale 1:13,023,700  
Alaska Albers Equal Area Conic Projection  
0 112.5 225 450 675 900  
Kilometers

This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



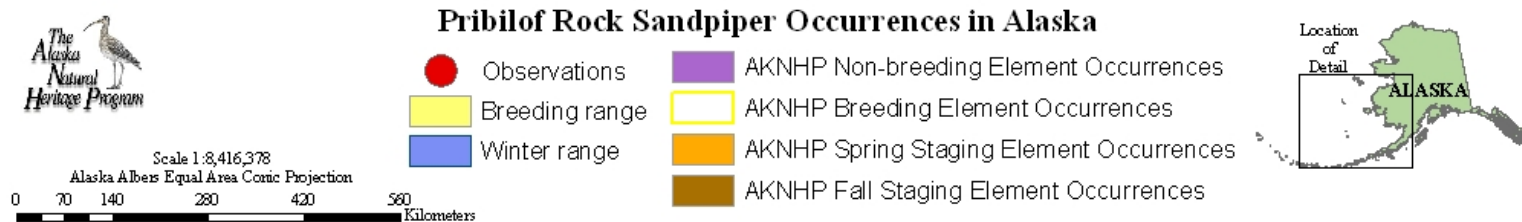
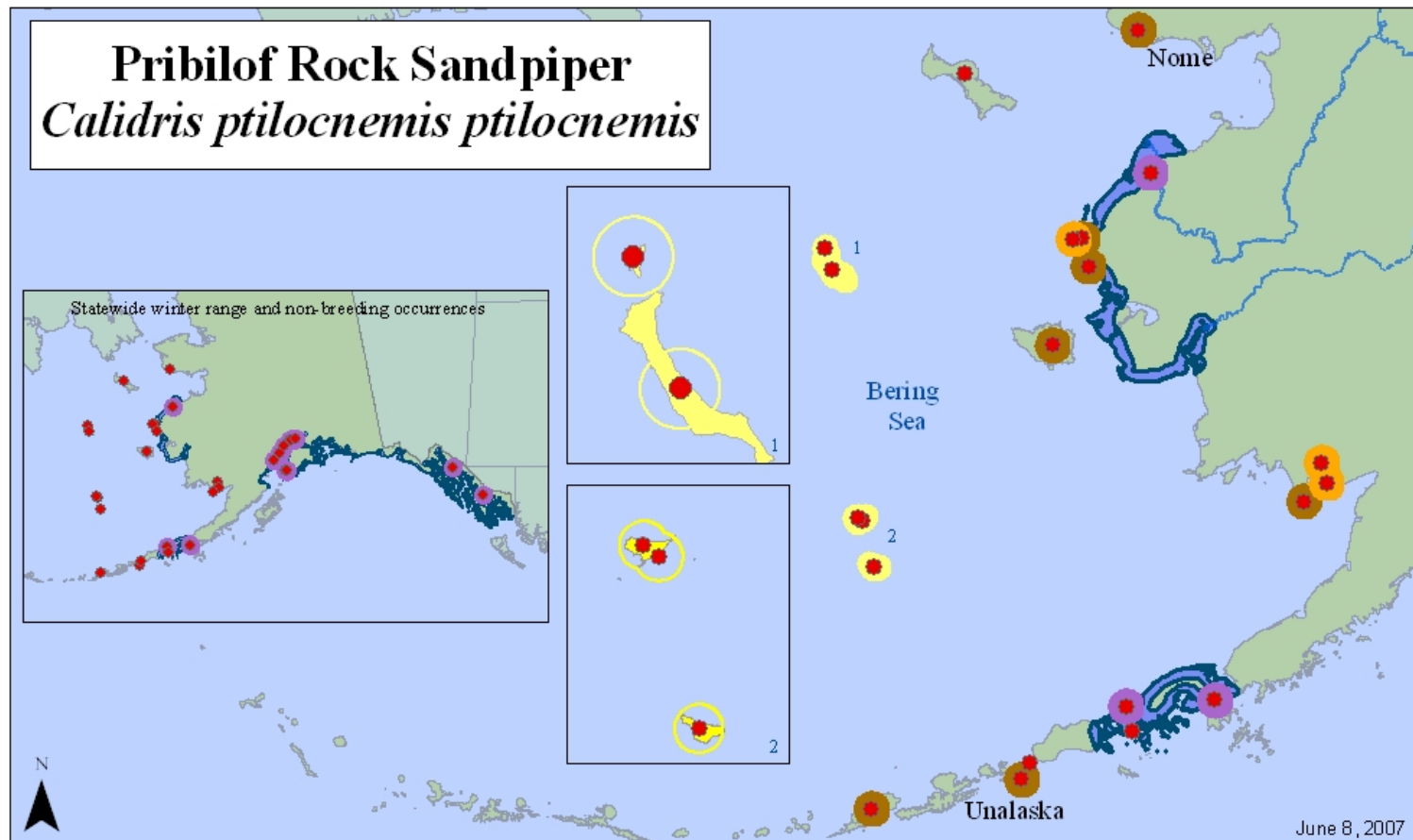
### Beringian Marbled Godwit Occurrences in Alaska



- Observations
- AKNHP Breeding Element Occurrences
- AKNHP Migration Stopover Element Occurrence
- Breeding Range

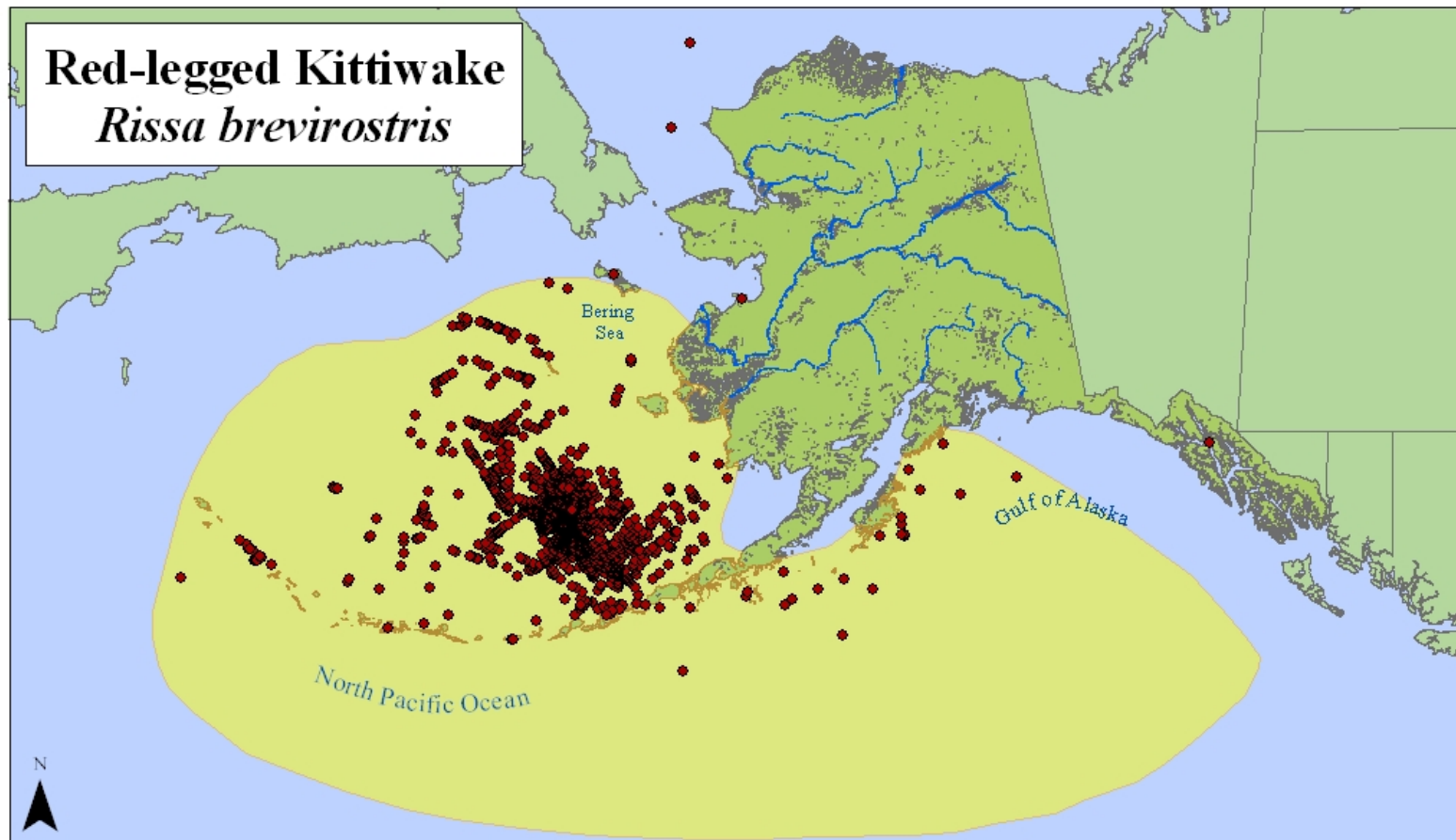


This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



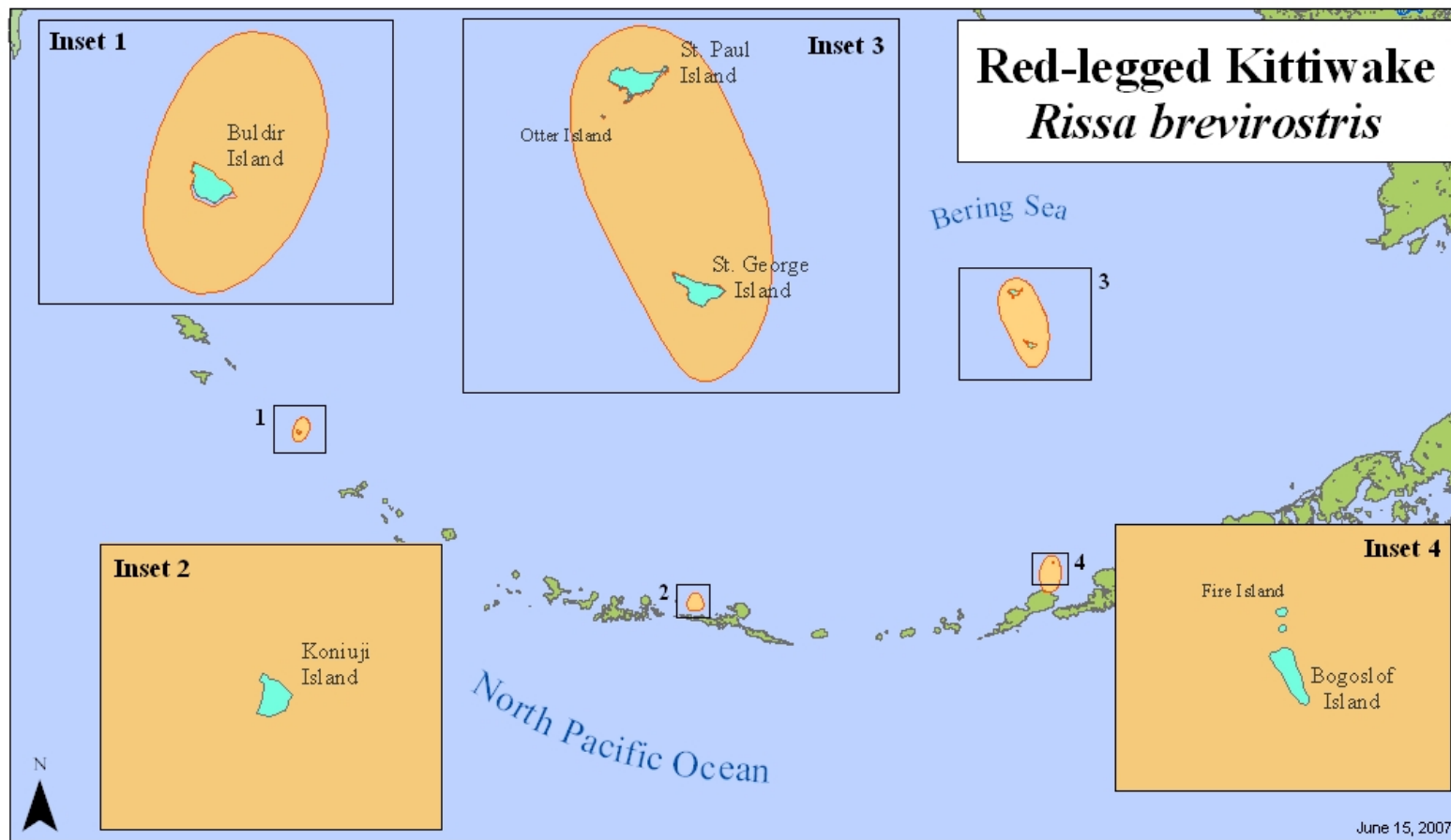


### Red-legged Kittiwake Occurrences in Alaska

- Observations
- Marine Range

Scale 1:XXXXXX  
Alaska Albers Equal Area Conic Projection  
0 160 320 640 960 1,280  
Kilometers

This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



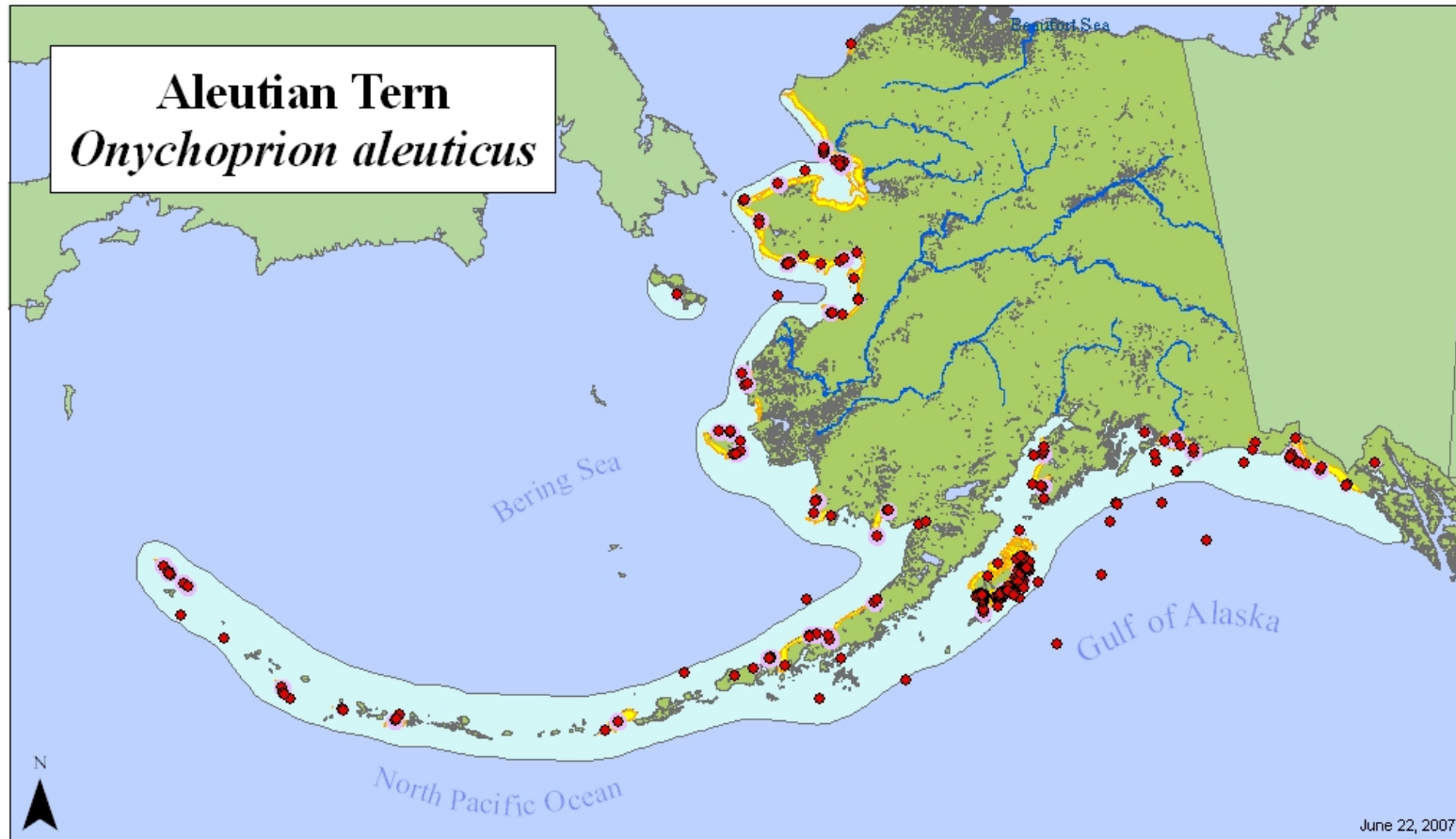
### Red-legged Kittiwake Occurrences in Alaska

- AKNHP Breeding Element Occurrences
- Breeding Range

Scale 1:7,687,700  
Alaska Albers Equal Area Conic Projection  
0 70 140 280 420 560  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



Scale 1:14,173,743  
Alaska Albers Equal Area Conic Projection  
0 120 240 480 720 960  
Kilometers

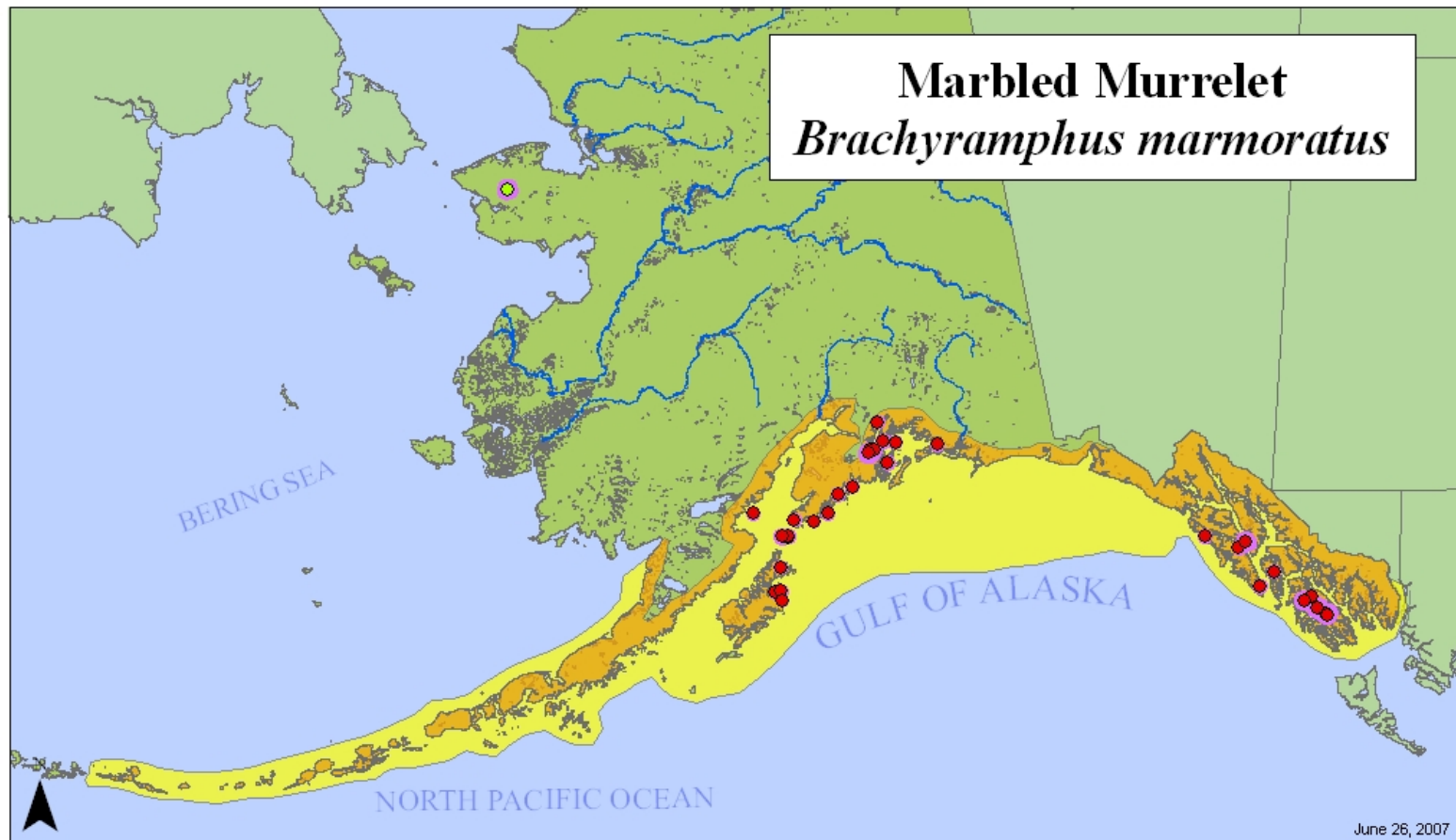
### Aleutian Tern Occurrences in Alaska

- Observations
- AKNHP Breeding Element Occurrences
- General Range
- Breeding Range

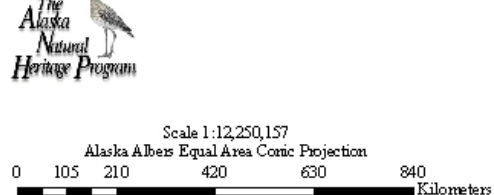


This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





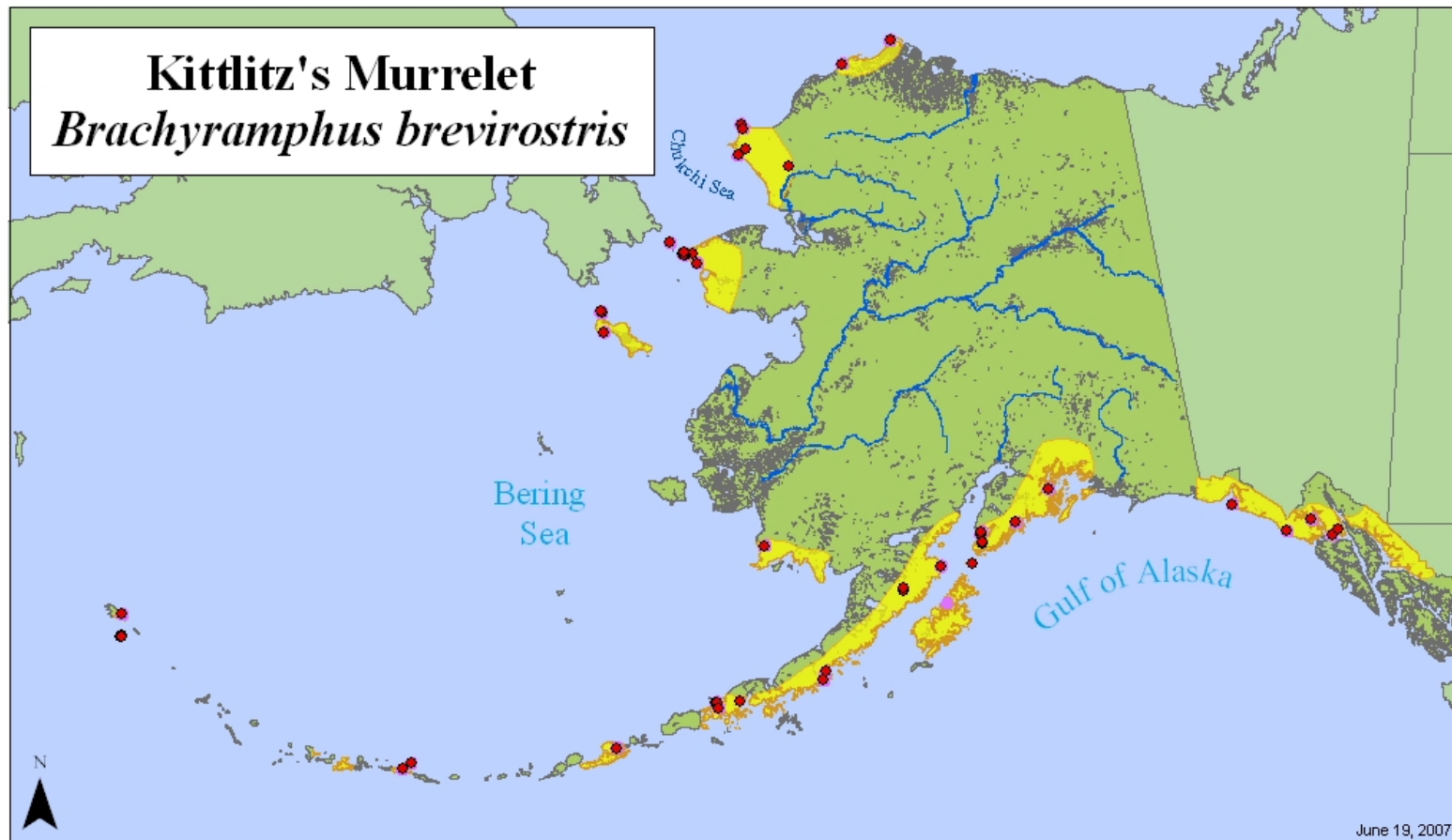
### Marbled Murrelet Occurrences in Alaska



- Confirmed Breeding Observations
- Unconfirmed Breeding Observations
- AKNHP Breeding Element Occurrences
- Breeding Range
- Nonbreeding Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



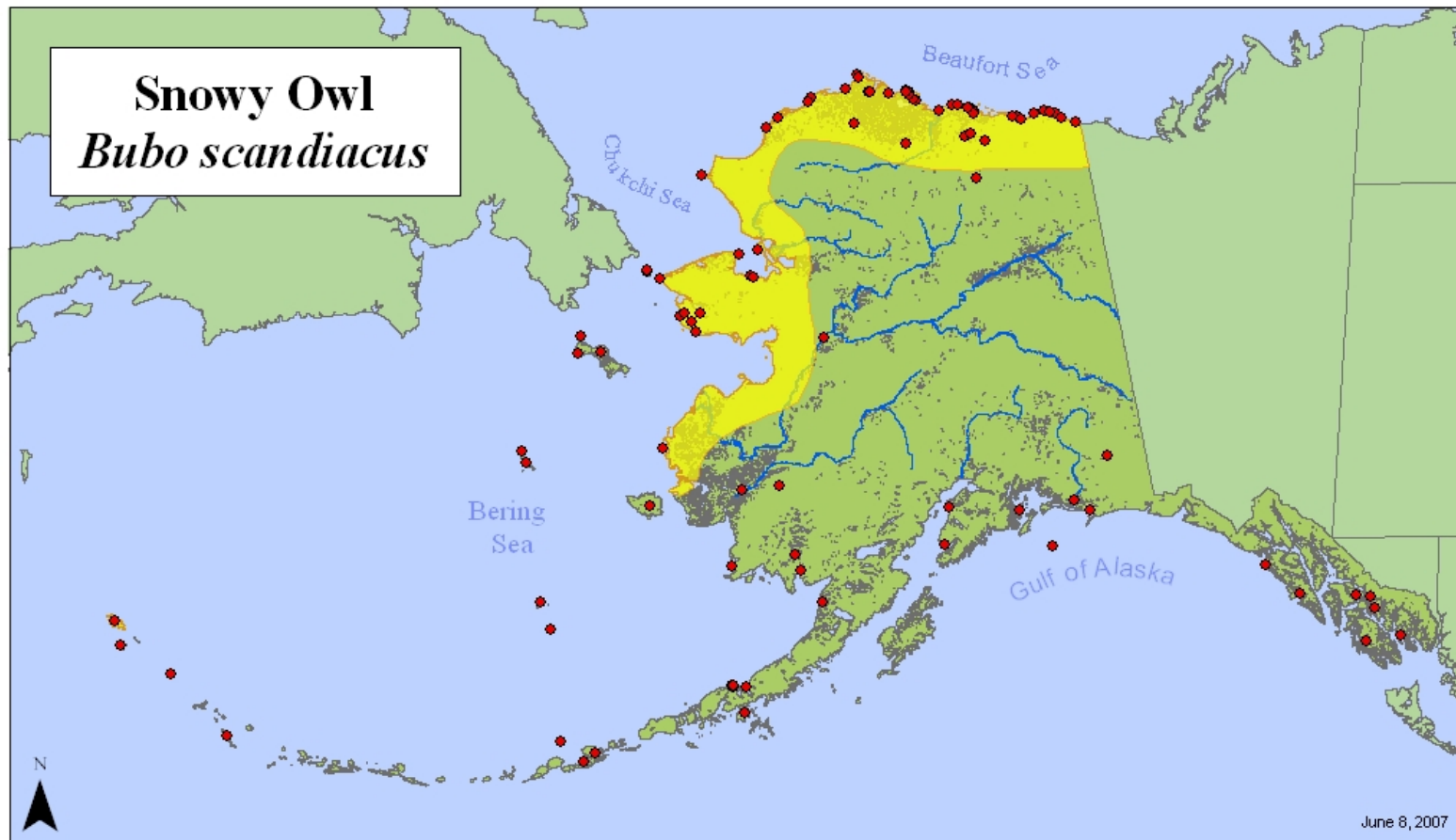
### Kittlitz's Murrelet Occurrences in Alaska

- Nesting Observations
- AKNHP Breeding Element Occurrences
- Breeding Range

Scale 1:14,254,324  
Alaska Albers Equal Area Conic Projection  
0 120 240 480 720 960  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



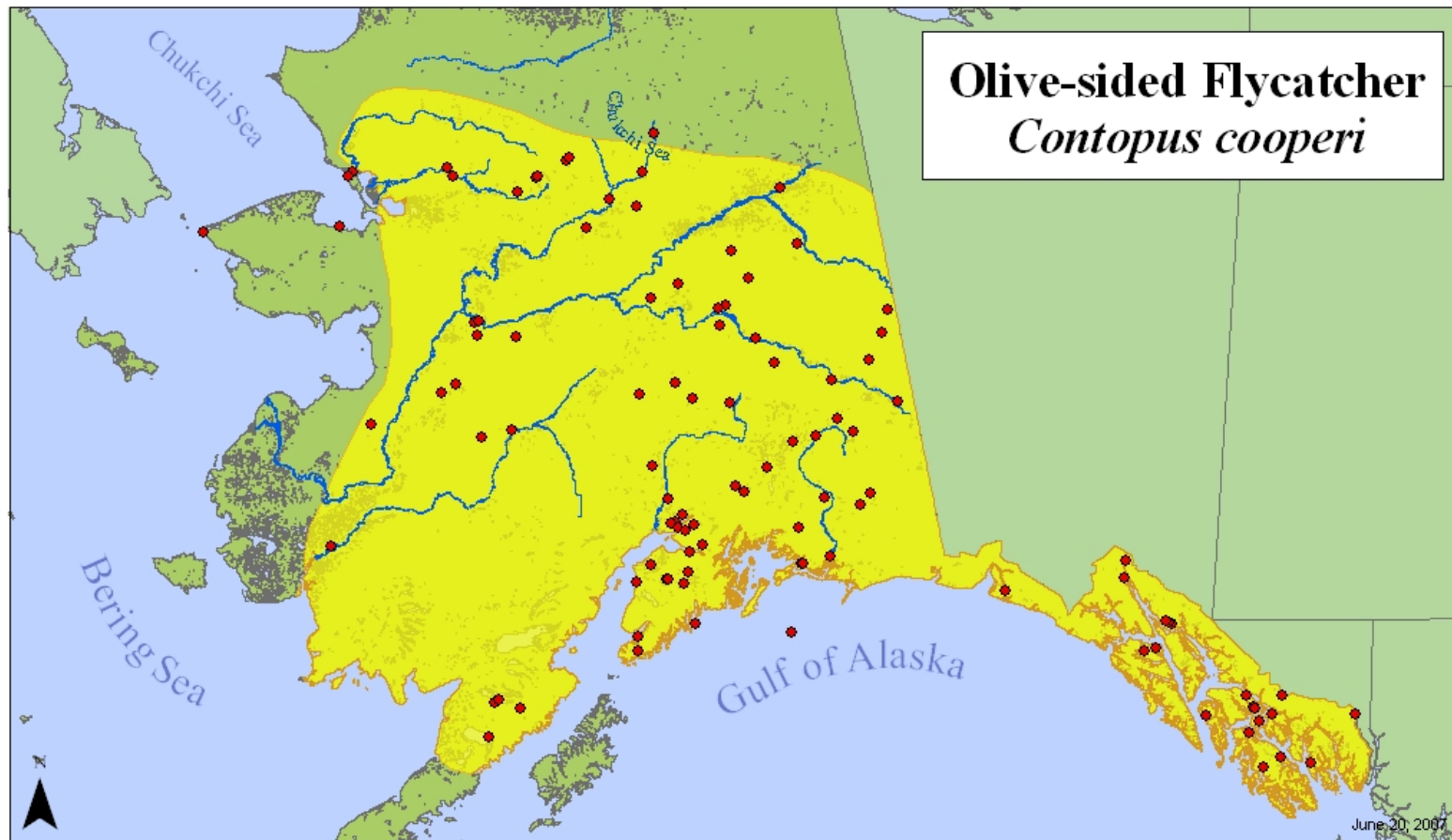
### Snowy Owl Occurrences in Alaska

- Observations
- Breeding Range

Scale 1:14,956,100  
Alaska Albers Equal Area Conic Projection  
0 135 270 540 810 1,080  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



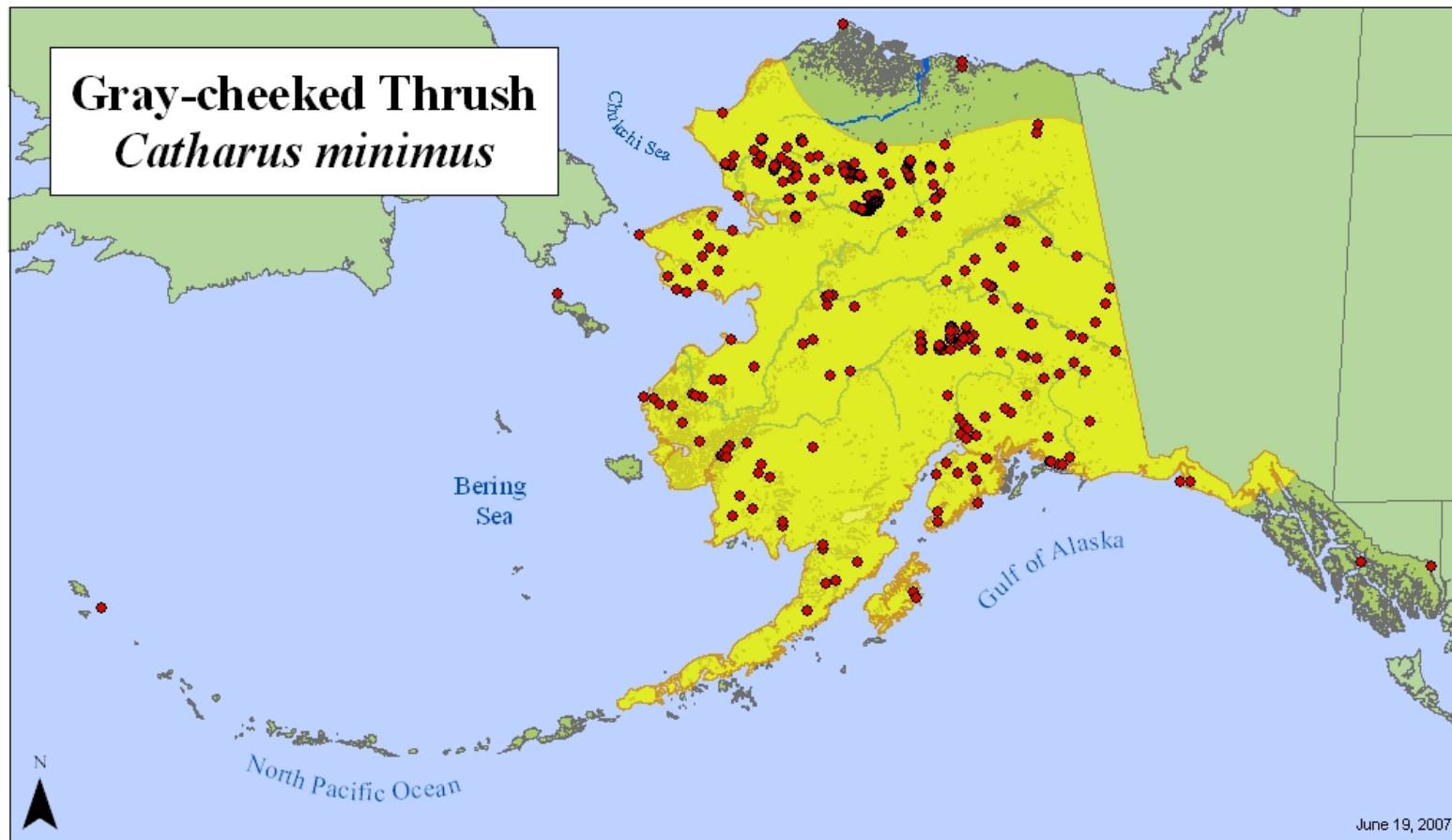
### Olive-sided Flycatcher Occurrences in Alaska

- Observations
- Breeding Range

Scale 1:9,890,900  
Alaska Albers Equal Area Conic Projection  
0 85 170 340 510 680  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Gray-cheeked Thrush Occurrences in Alaska

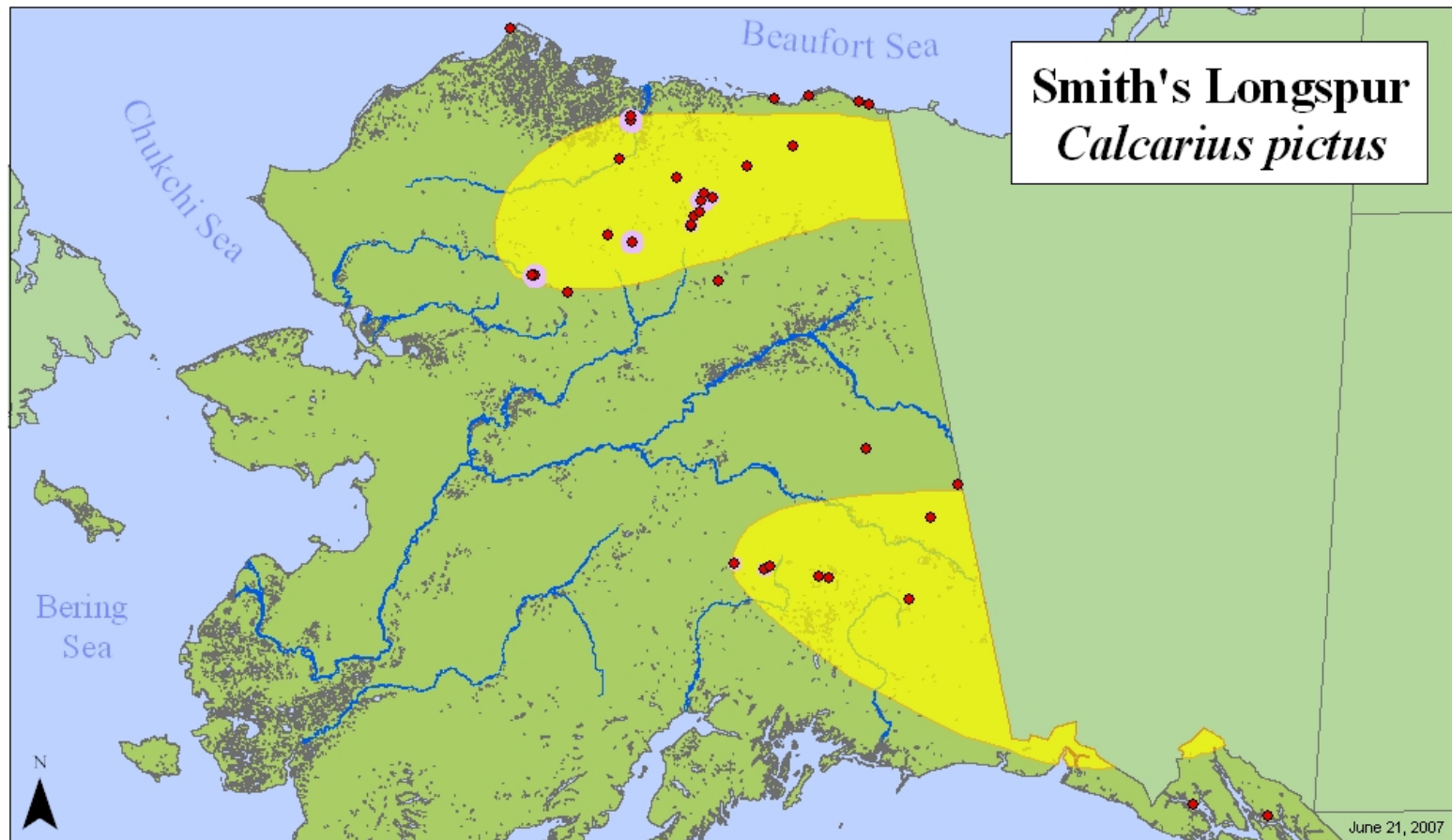
- Observations
- Breeding Range

Scale 1:14,459,500  
Alaska Albers Equal Area Conic Projection  
0 125 250 500 750 1,000  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





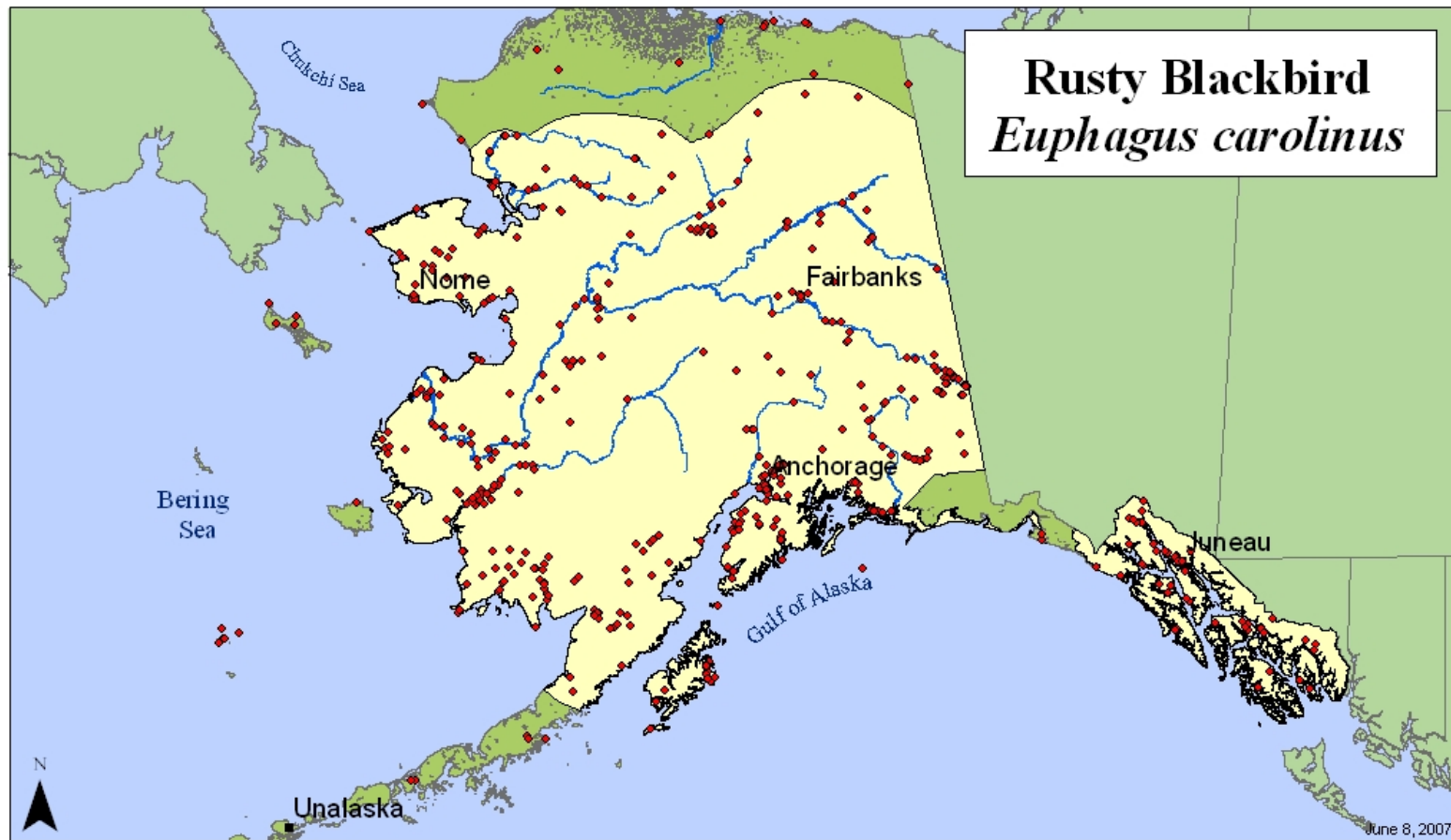
### Smith's Longspur Occurrences in Alaska

Scale 1:8,775,354  
Alaska Albers Equal Area Conic Projection  
0 75 150 300 450 600  
Kilometers

- Observations
- AKNHP Breeding Element Occurrences
- Breeding Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Rusty Blackbird Occurrences in Alaska

- ◆ Observations
- Breeding Range

Scale 1:11,310,490  
Alaska Albers Equal Area Conic Projection  
0 100 200 400 600 800  
Kilometers

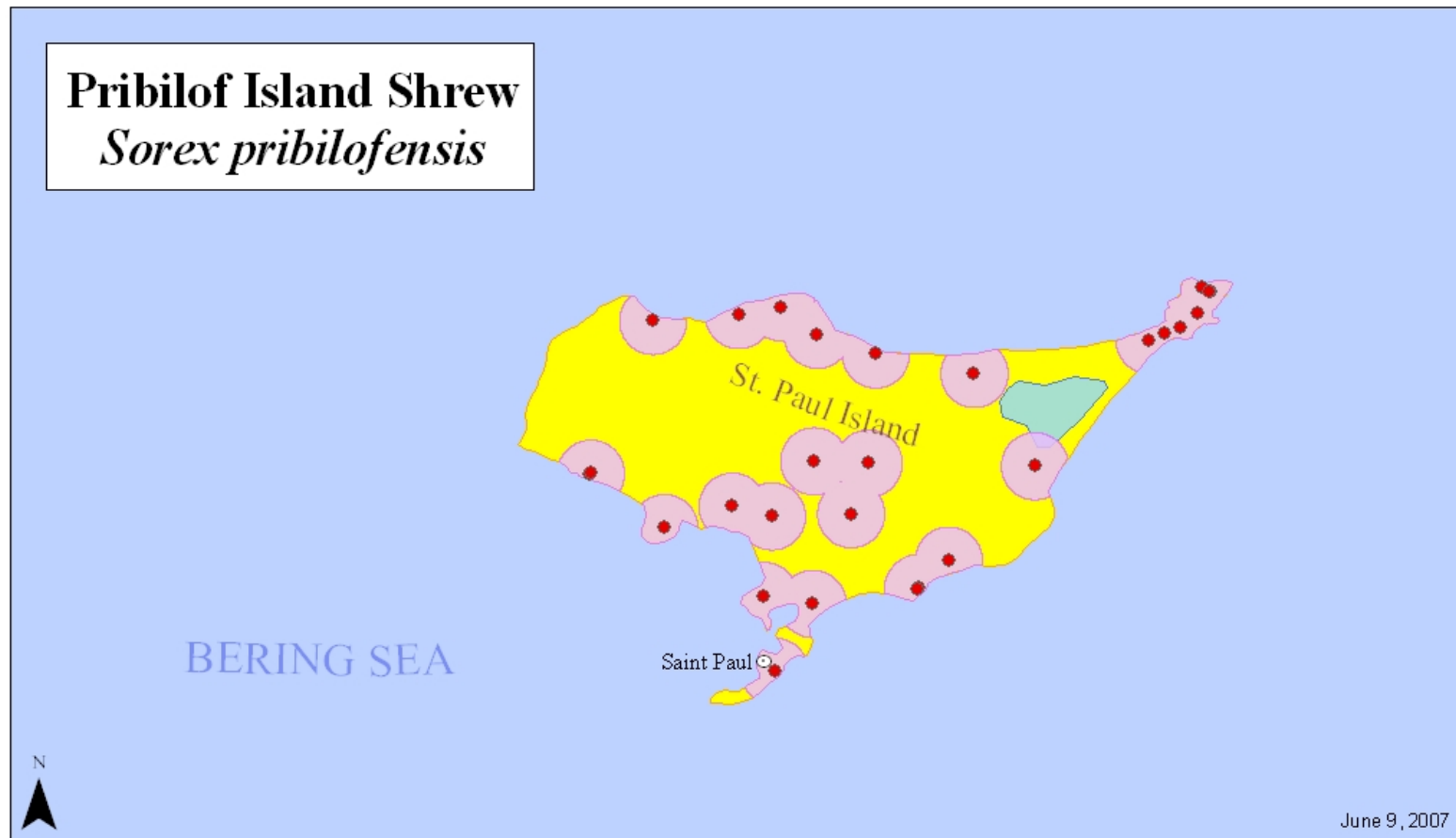


This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

## **Appendix I**

### **Mammals**





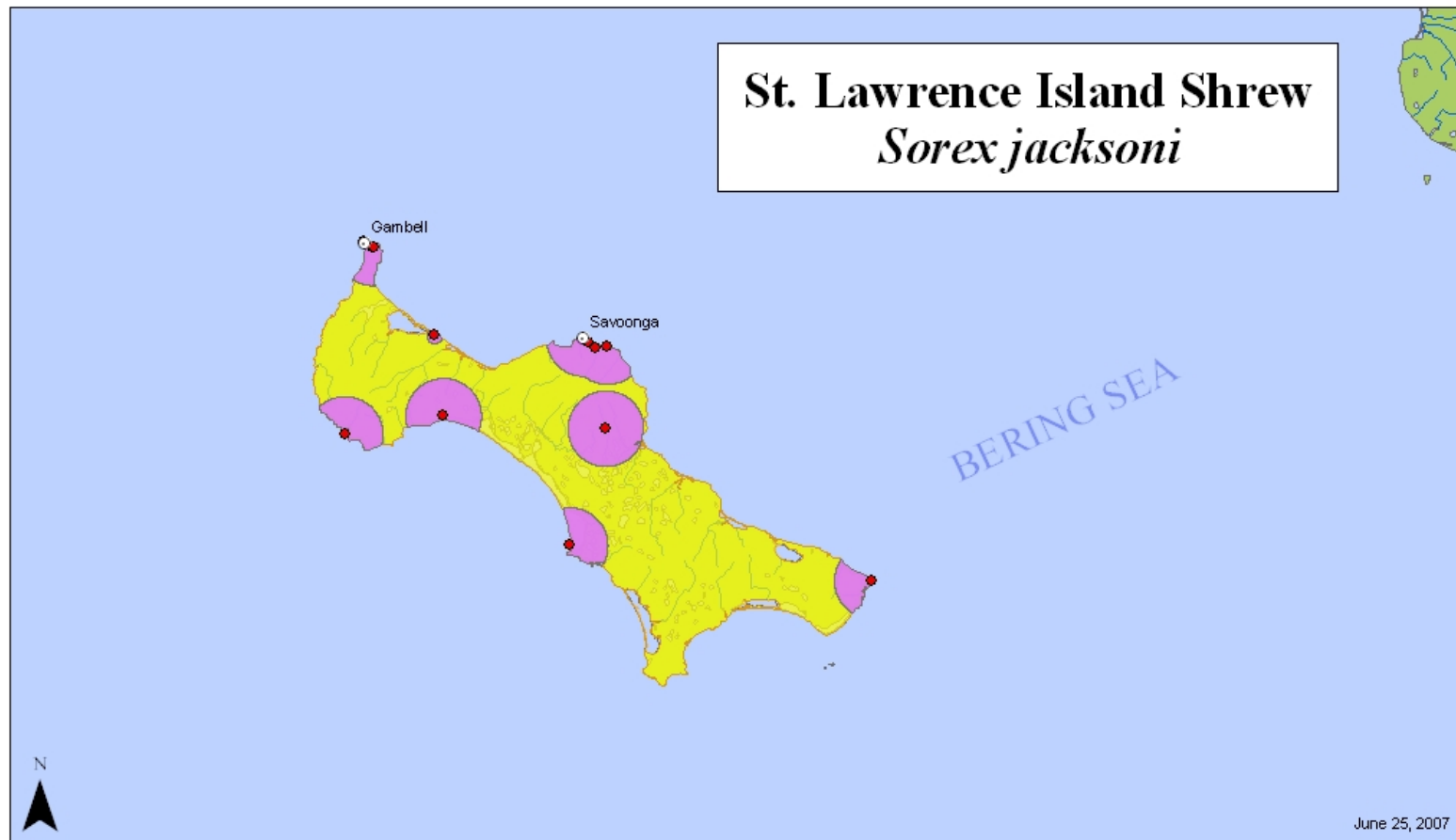
### Pribilof Island Shrew Occurrences in Alaska

- Observations
- AKNHP Element Occurrence
- Range

Scale 1:107,540  
Alaska Albers Equal Area Conic Projection  
0 1.25 2.5 5 7.5 10 Kilometers



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### St. Lawrence Island Shrew Occurrences in Alaska

Scale 1:1,432,486  
Alaska Albers Equal Area Conic Projection  
0 12.5 25 50 75 100 Kilometers

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



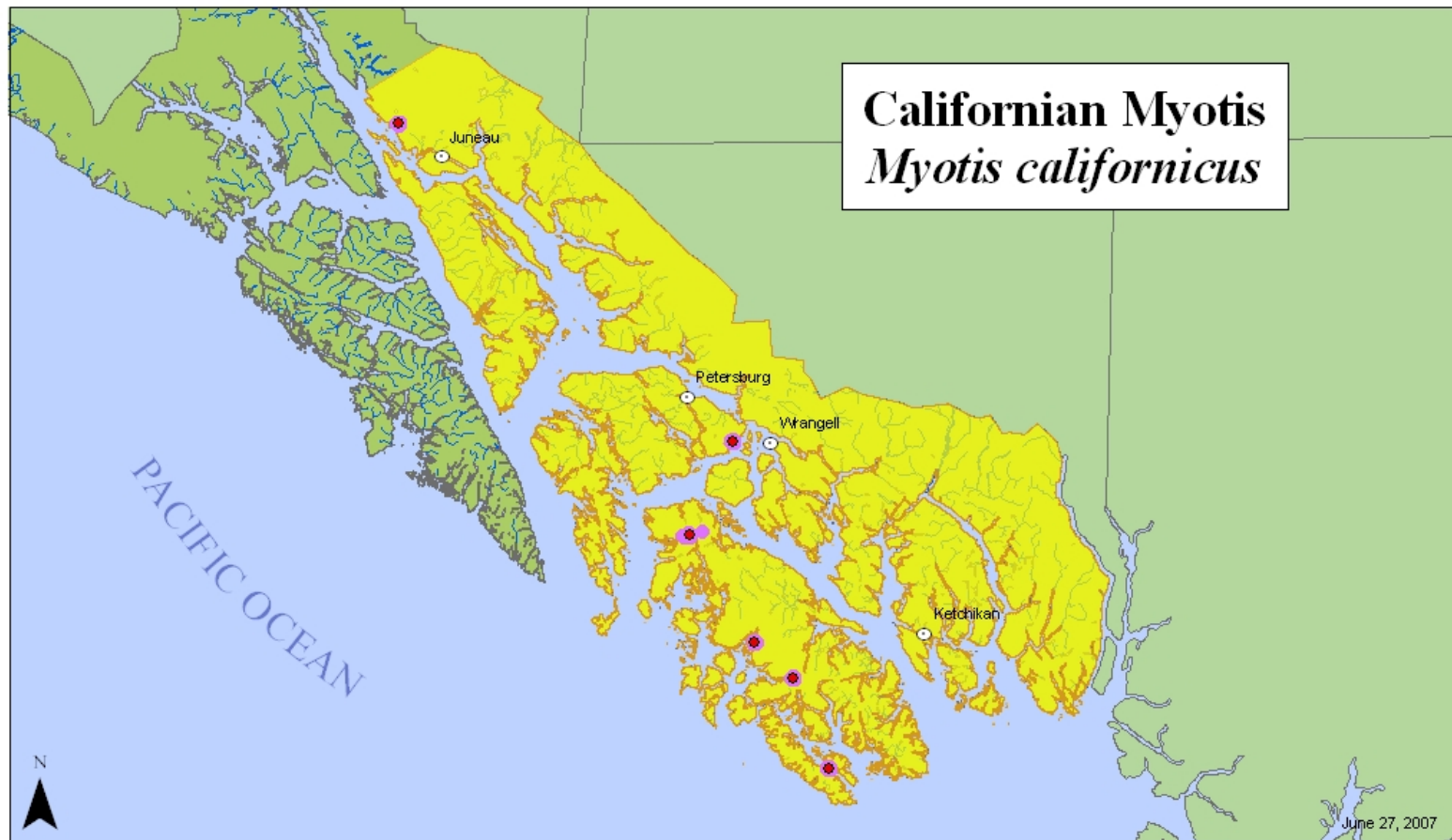
### Silver-haired Bat Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:2,970,861  
Alaska Albers Equal Area Conic Projection  
0 25 50 100 150 200  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Californian Myotis Occurrences in Alaska

Scale 1:2,960,810  
Alaska Albers Equal Area Conic Projection  
0 25 50 100 150 200 Kilometers

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



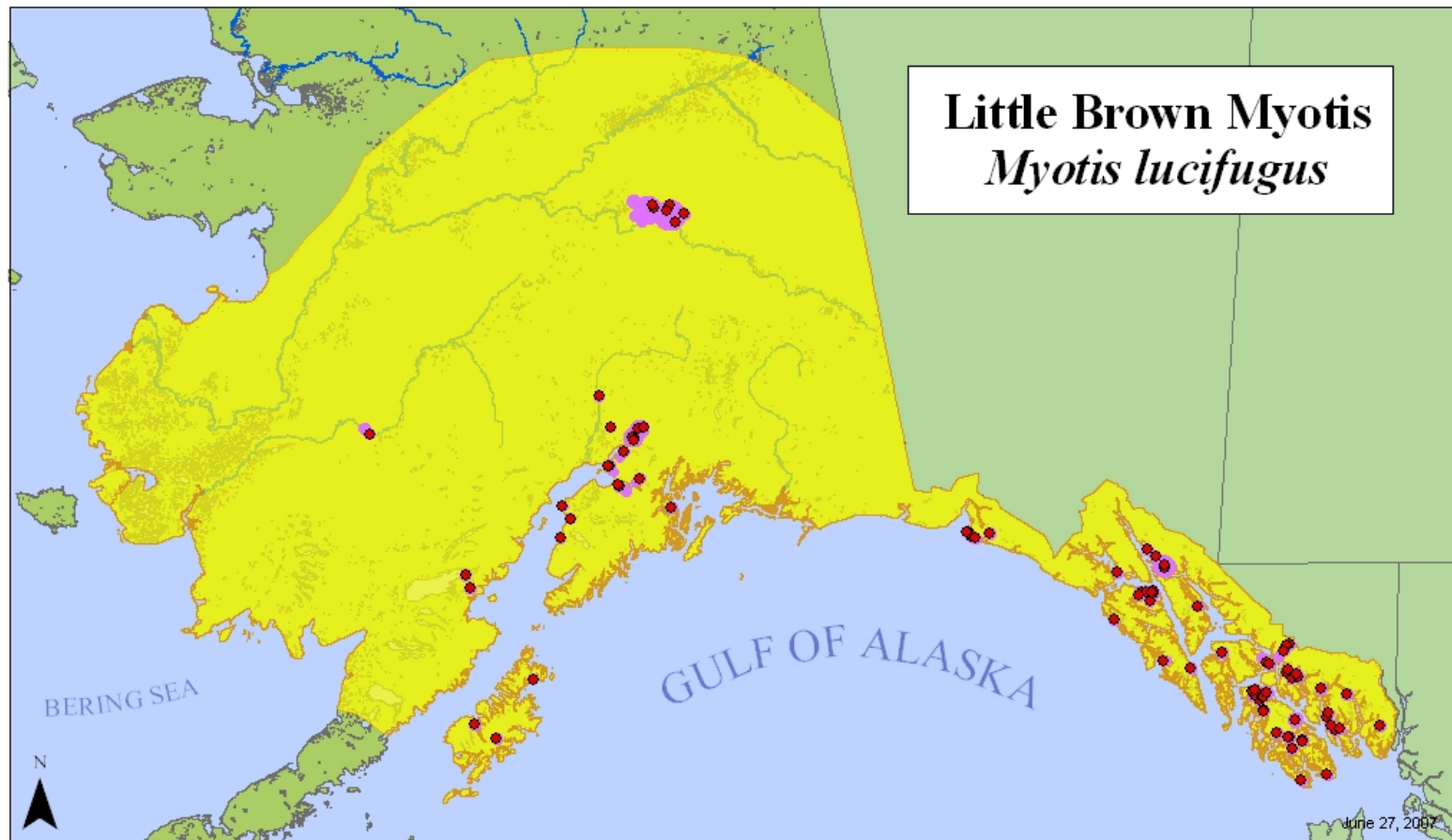
### Keen's Myotis Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:2,938,778  
Alaska Albers Equal Area Conic Projection  
0 25 50 100 150 200 Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Little Brown Myotis Occurrences in Alaska

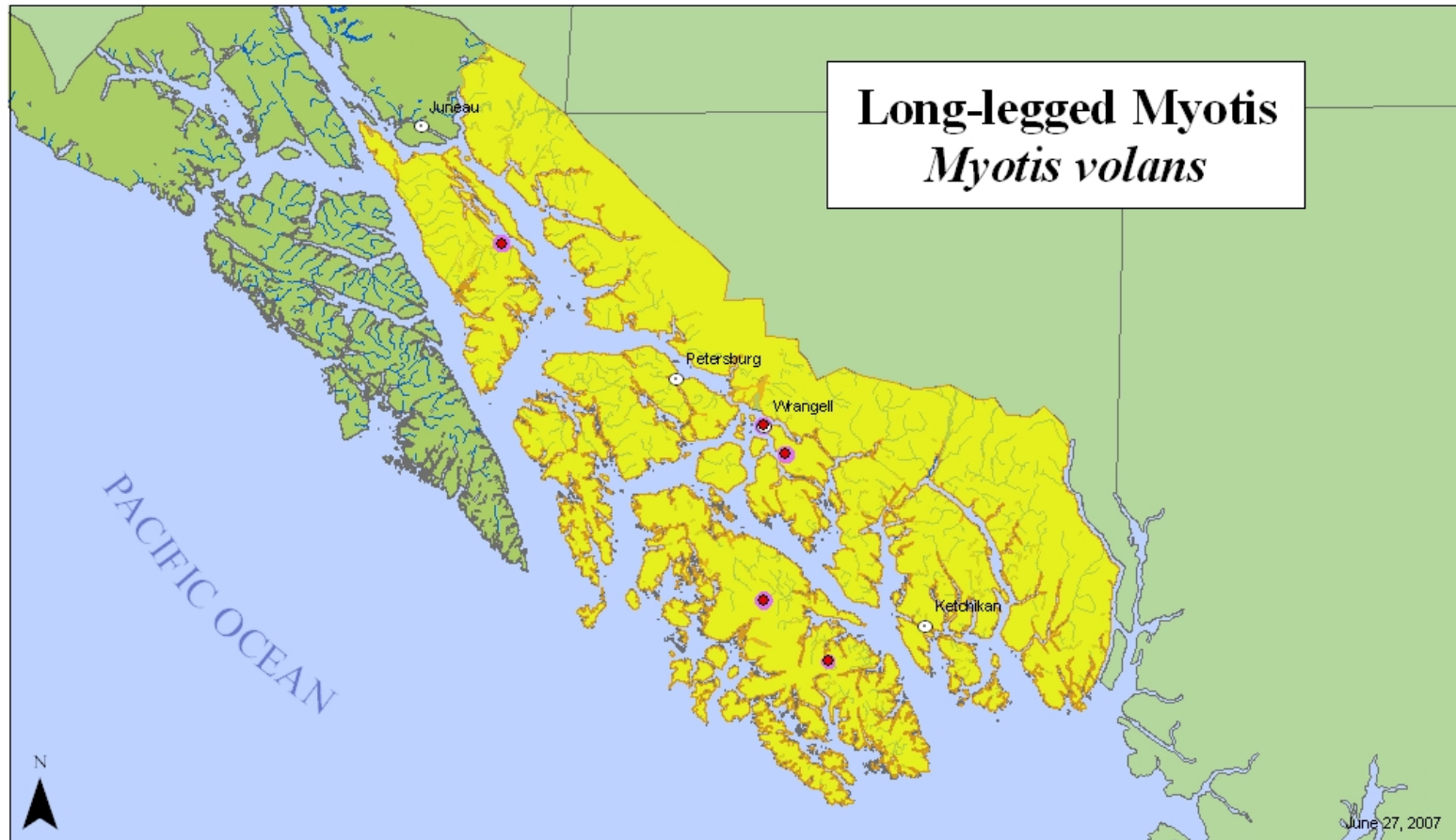
Scale 1:8,754,280  
Alaska Albers Equal Area Conic Projection  
0 75 150 300 450 600 Kilometers

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





### Long-legged Myotis Occurrences in Alaska

Scale 1:2,836,036  
Alaska Albers Equal Area Conic Projection  
0 25 50 100 150 200  
Kilometers

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Northern Sea Otter Occurrences in Alaska

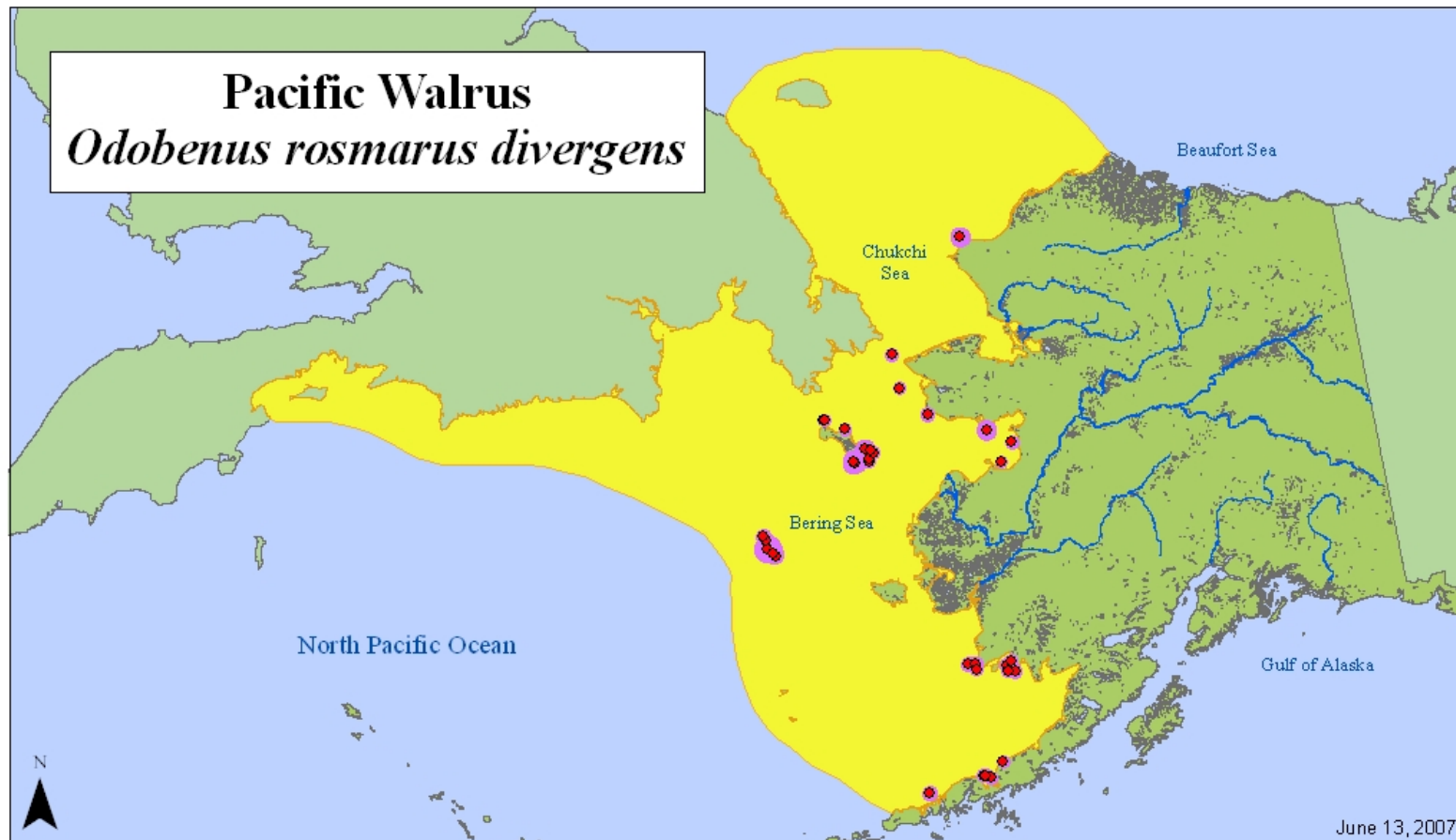
- Observations
- Current Range
- Historic Extensions to Current Range

Scale 1:13,972,726  
Alaska Albers Equal Area Conic Projection  
0 120 240 480 720 960  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





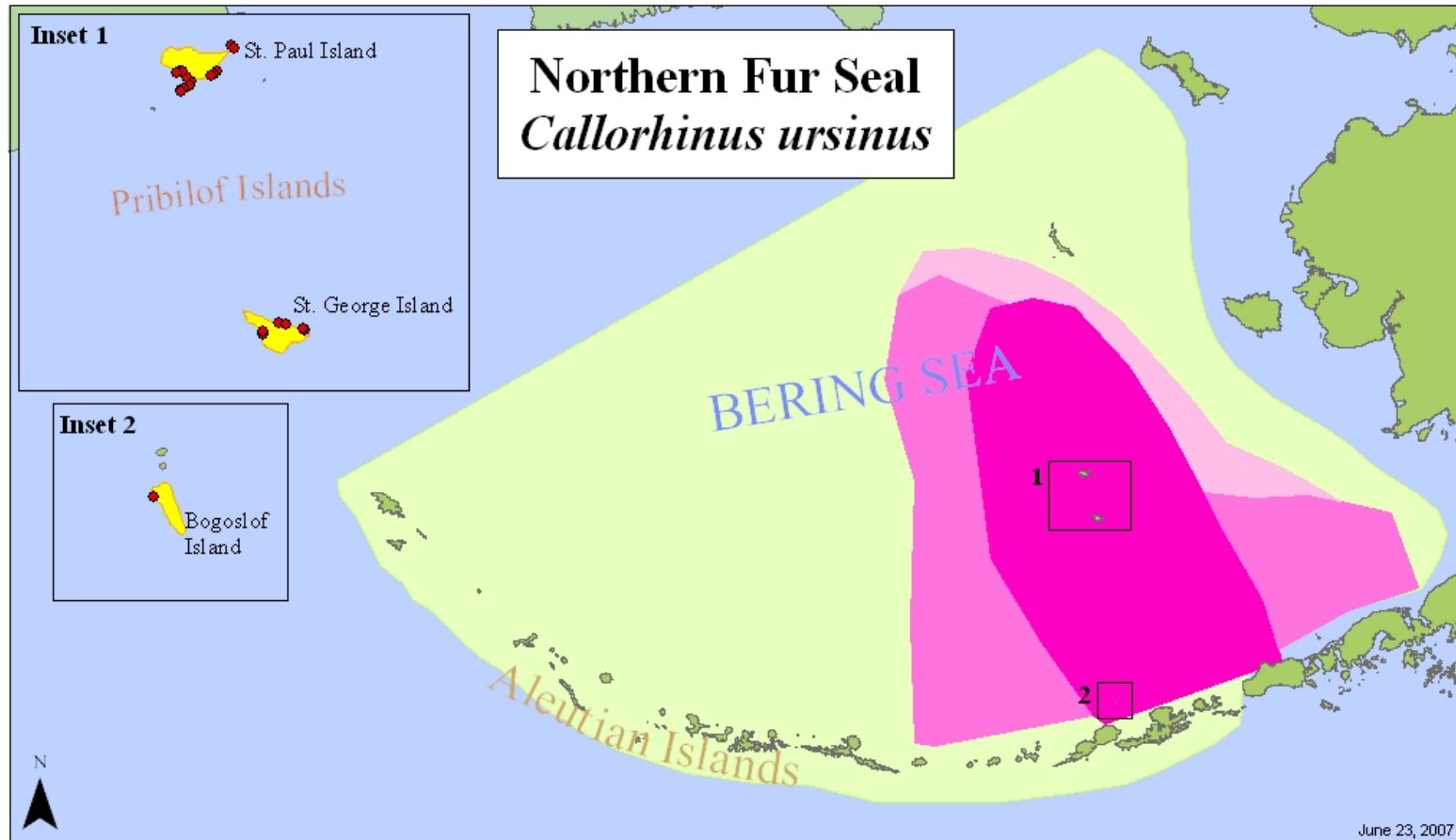
### Pacific Walrus Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:14,666,900  
Alaska Albers Equal Area Conic Projection  
0 130 260 520 780 1,040  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



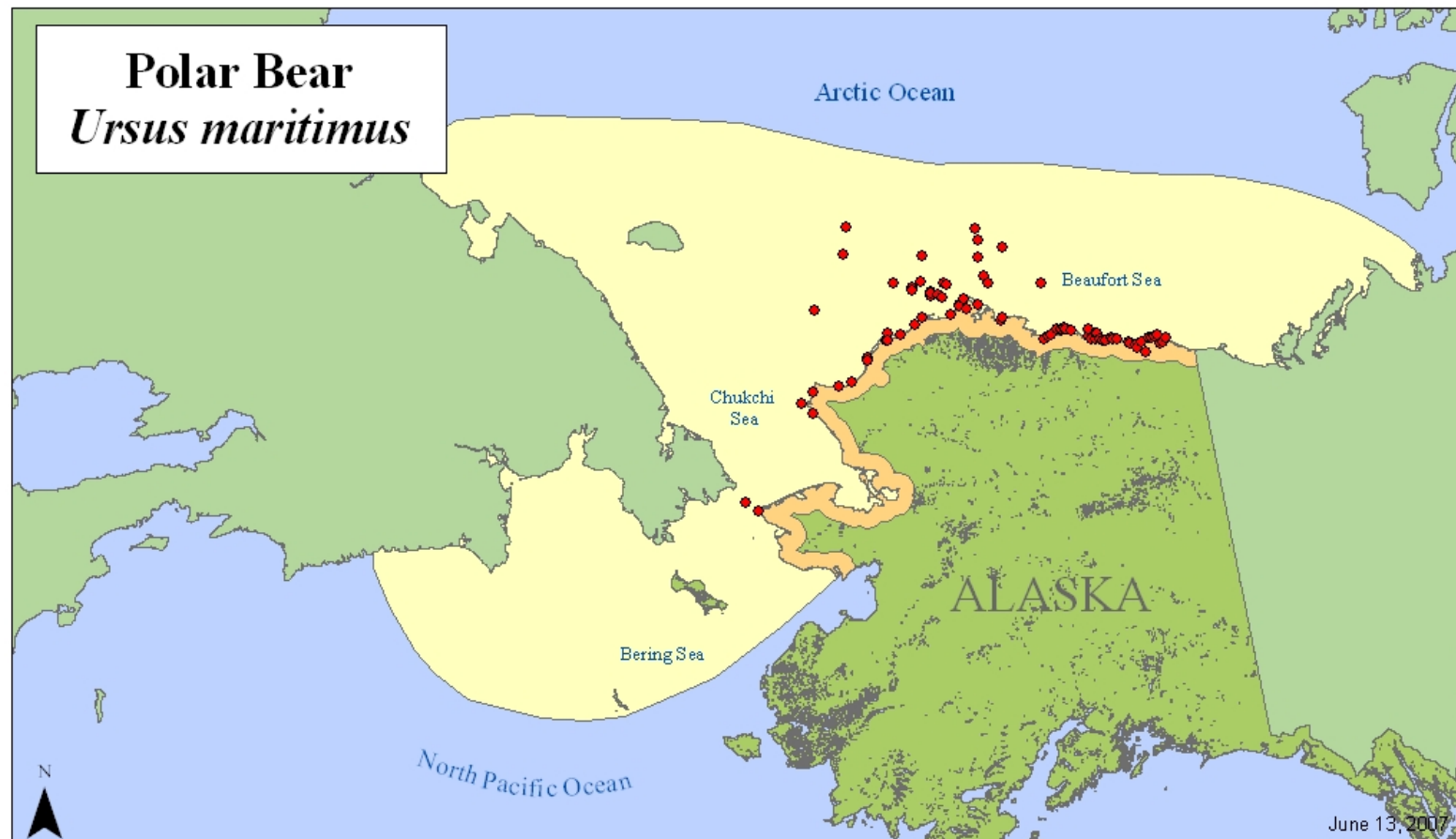
### Northern Fur Seal Occurrences in Alaska

- AKNHP Major Foraging Element Occurrence
- AKNHP Year-round Distribution Element Occurrence
- Breeding Range
- General Marine Range
- AKNHP Rookery Element Occurrences

Scale 1:9,153,630  
Alaska Albers Equal Area Conic Projection  
0 80 160 320 480 640 Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

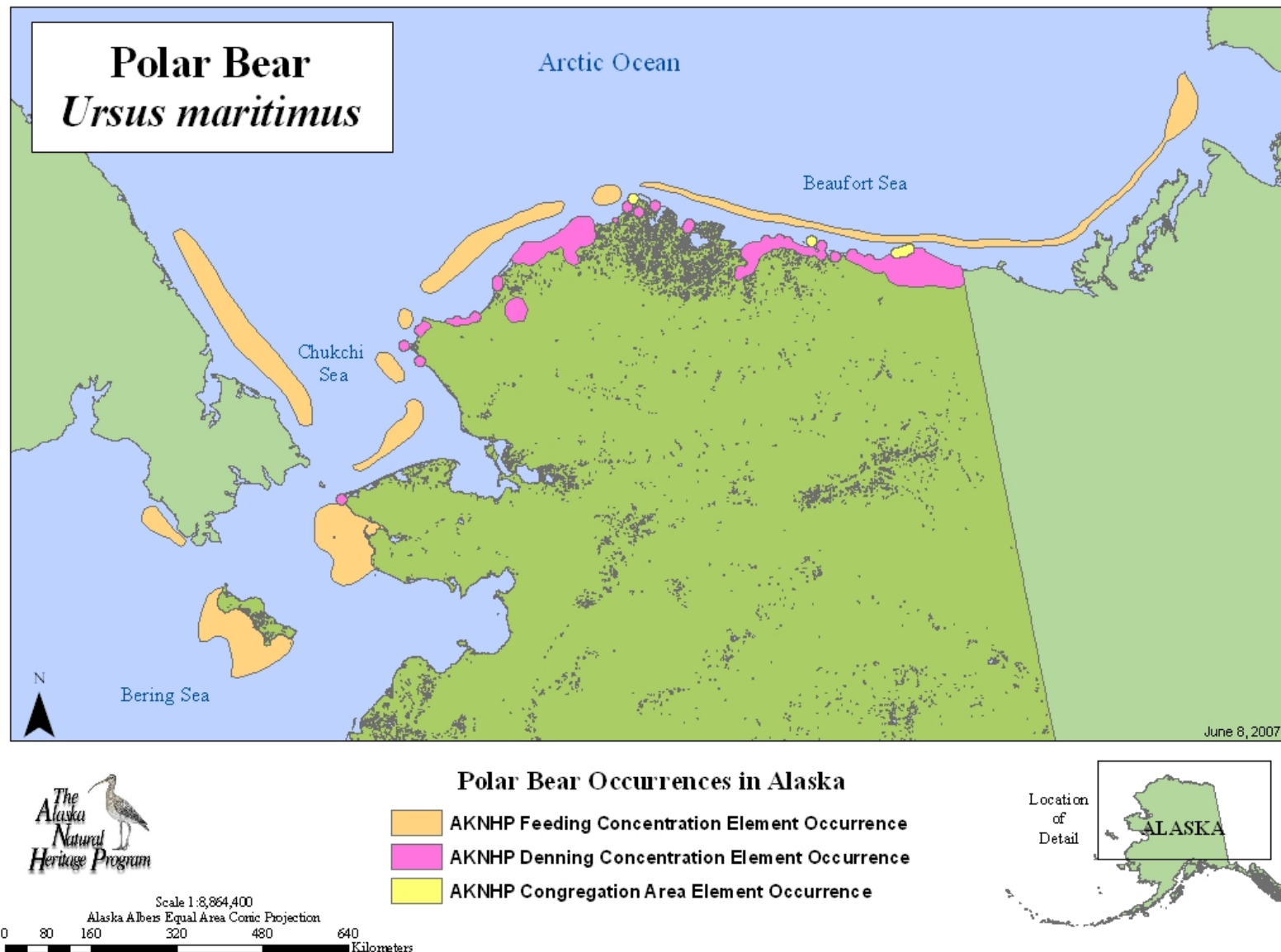


### Polar Bear Occurrences in Alaska

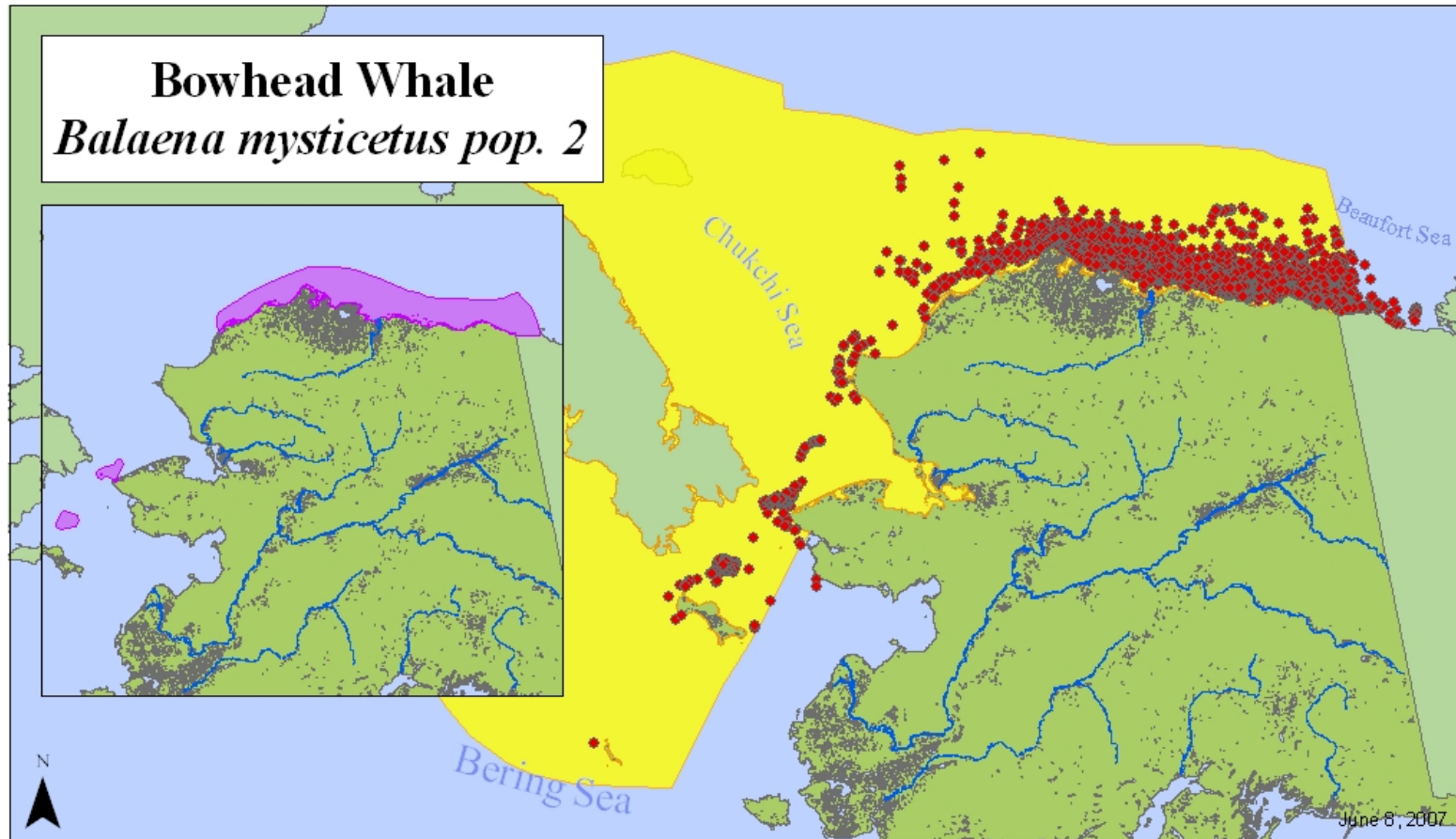
- General Range
- Maternal Denning Range
- Observations

Scale 1:14,327,000  
Alaska Albers Equal Area Conic Projection  
0 130 260 520 780 1,040  
Kilometers

This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Bowhead Whale Occurrences in Alaska

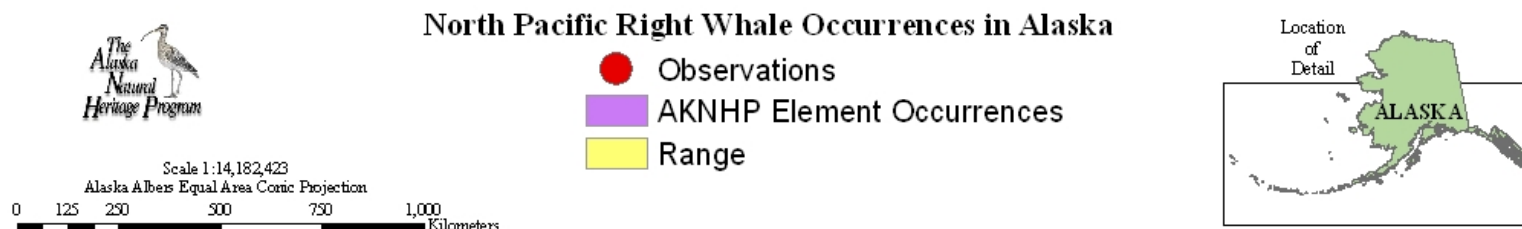
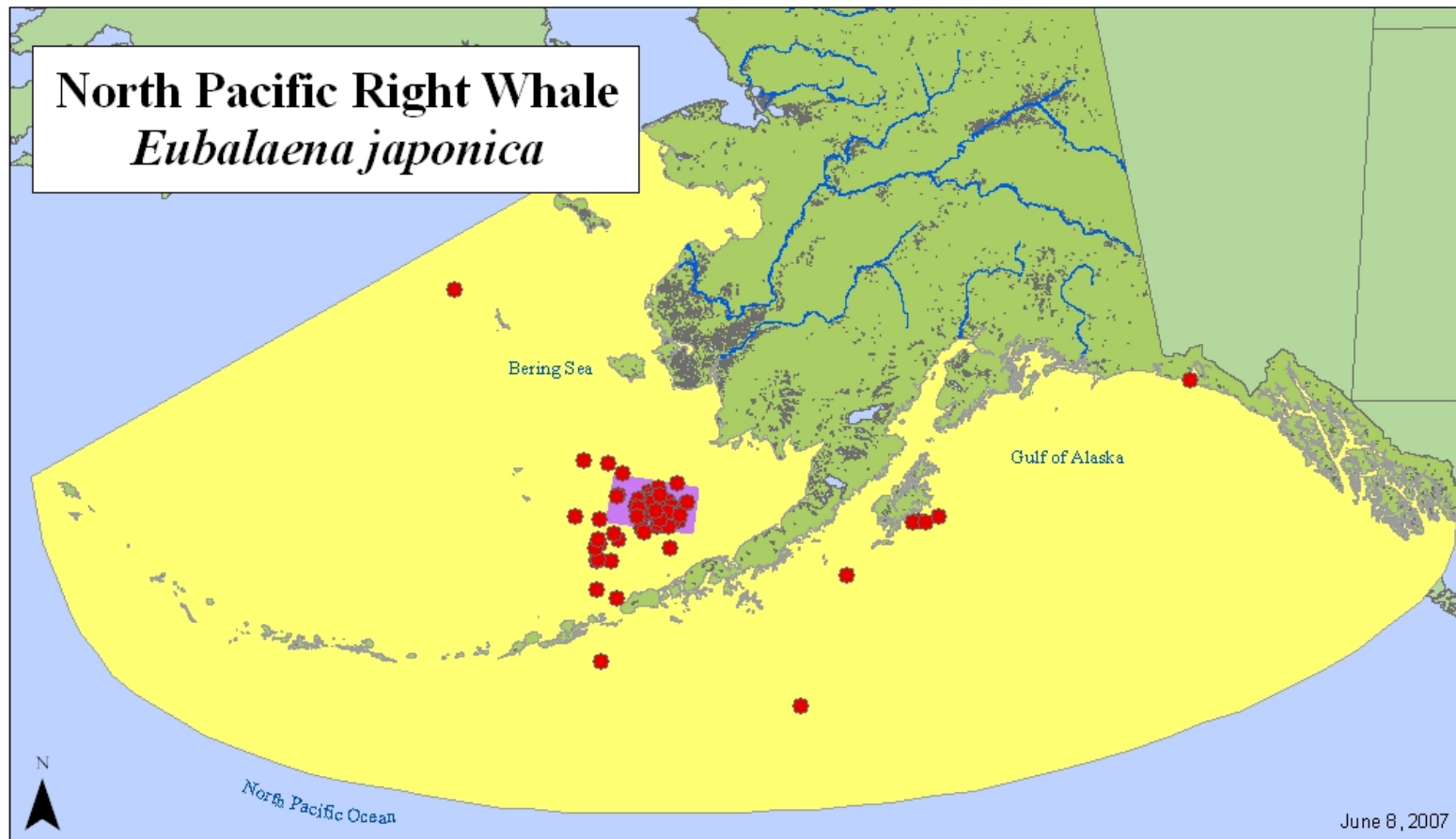
- Observations
- Range
- AKNHP Foraging Concentration Element Occurrences

Scale 1:11,414,957  
Alaska Albers Equal Area Conic Projection  
0 100 200 400 600 800 Kilometers

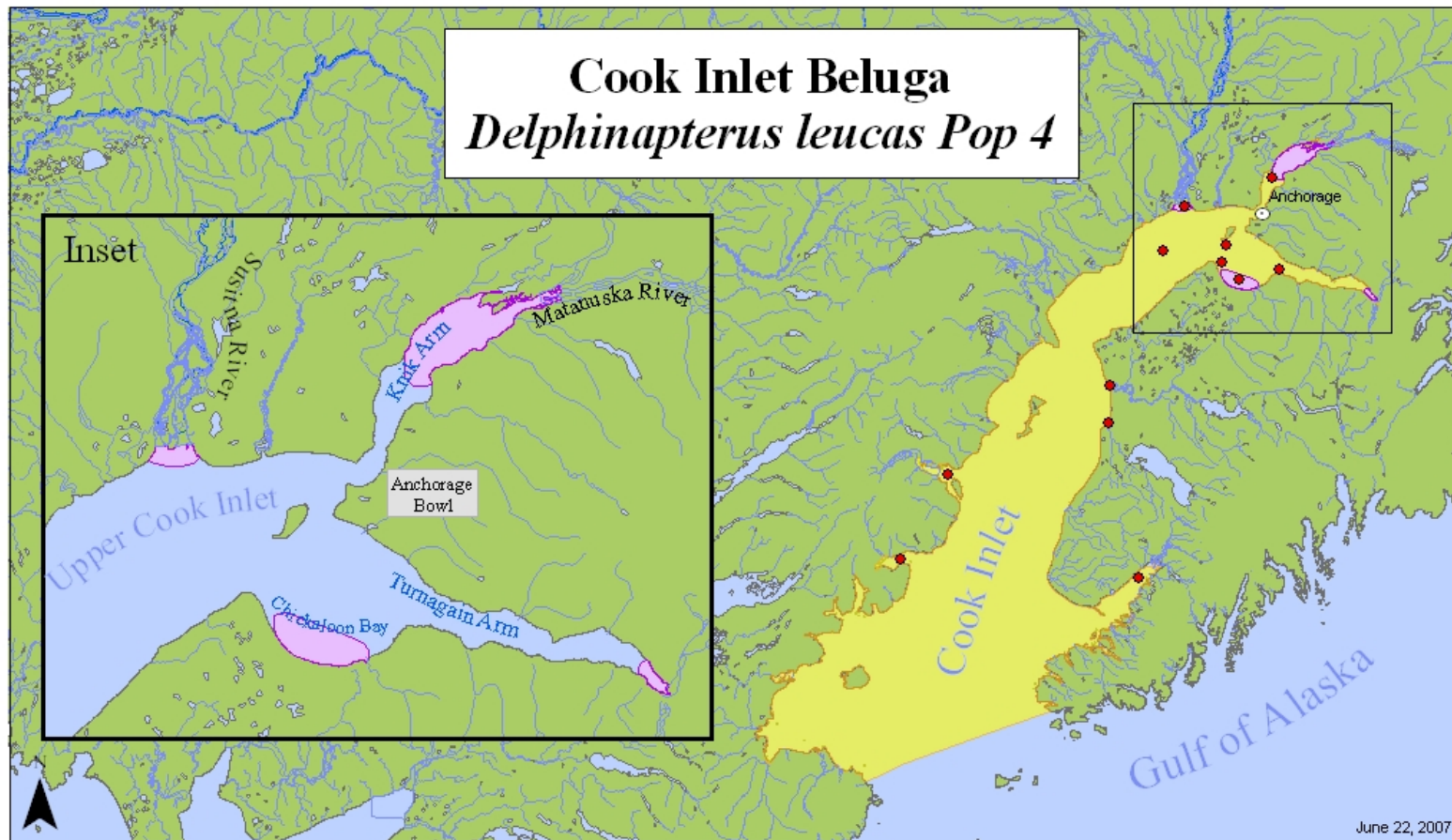


This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



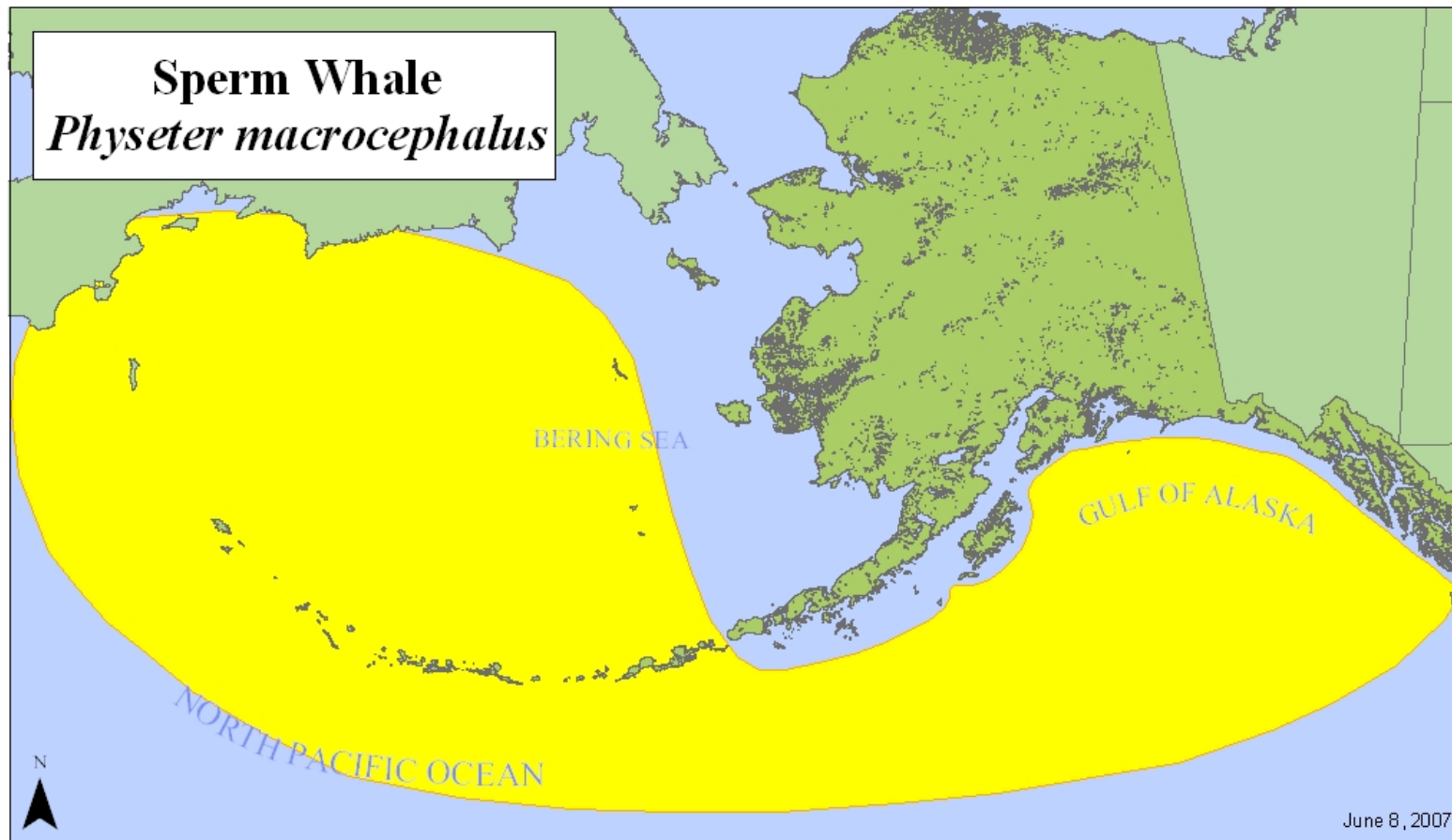
### Cook Inlet Beluga Occurrences in Alaska

Scale 1:2,504,844  
Alaska Albers Equal Area Conic Projection  
0 20 40 80 120 160  
Kilometers

- Repeat Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Sperm Whale Occurrences in Alaska

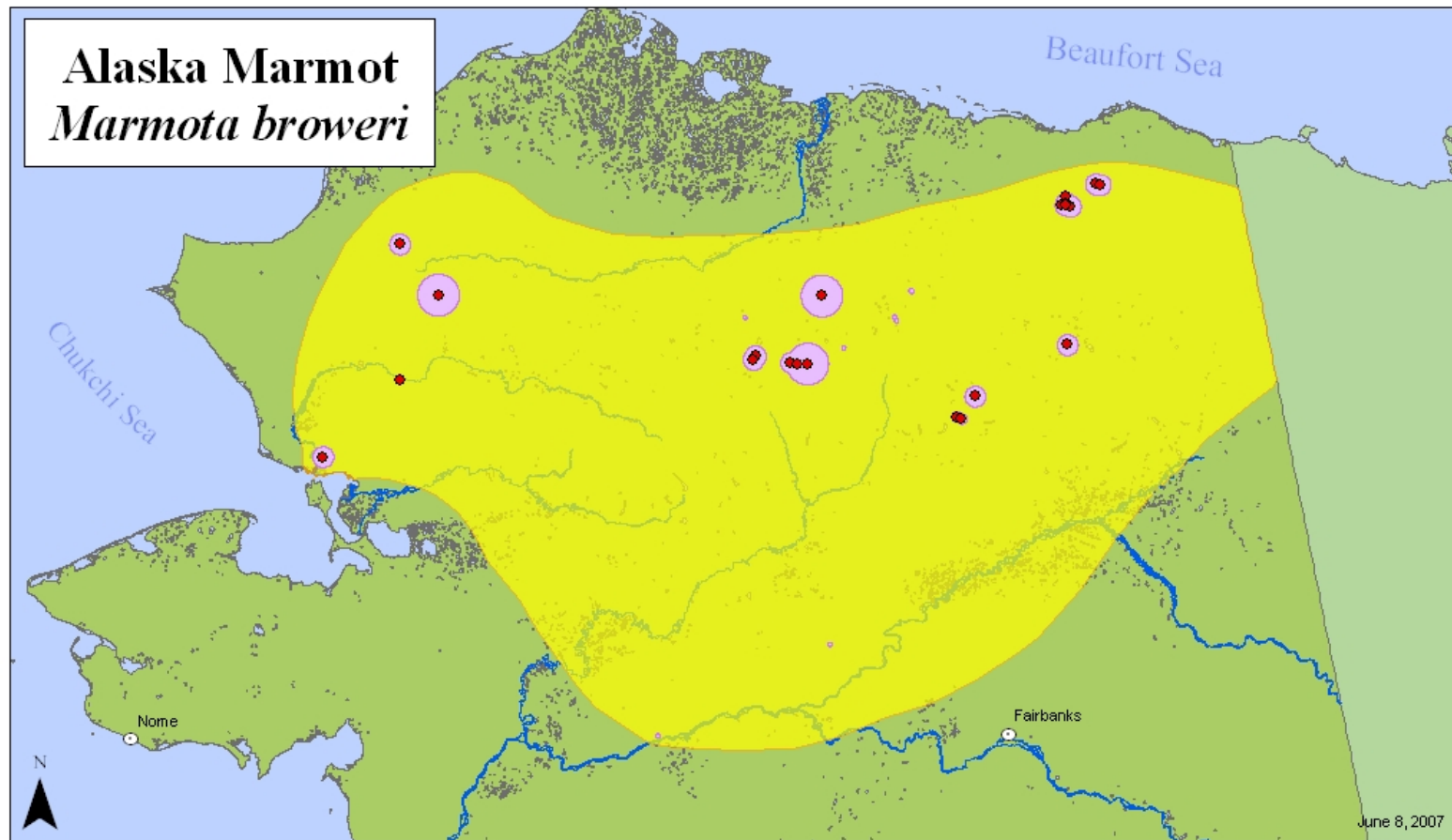
Range

Scale 1:15,388,635  
Alaska Albers Equal Area Conic Projection  
0 130 260 520 780 1,040  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





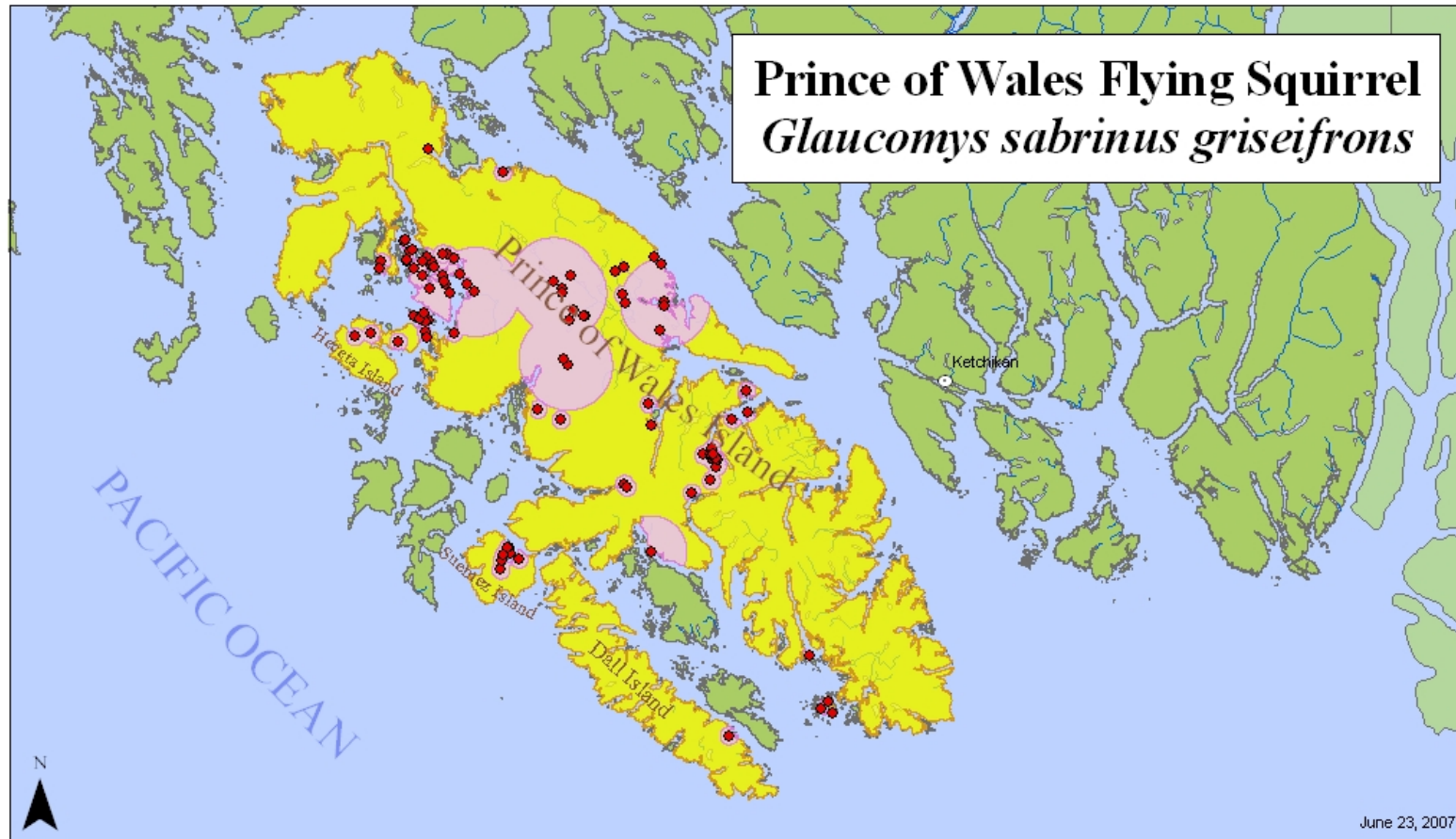
### Alaska Marmot Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:5,211,400  
Alaska Albers Equal Area Conic Projection  
0 50 100 200 300 400 Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



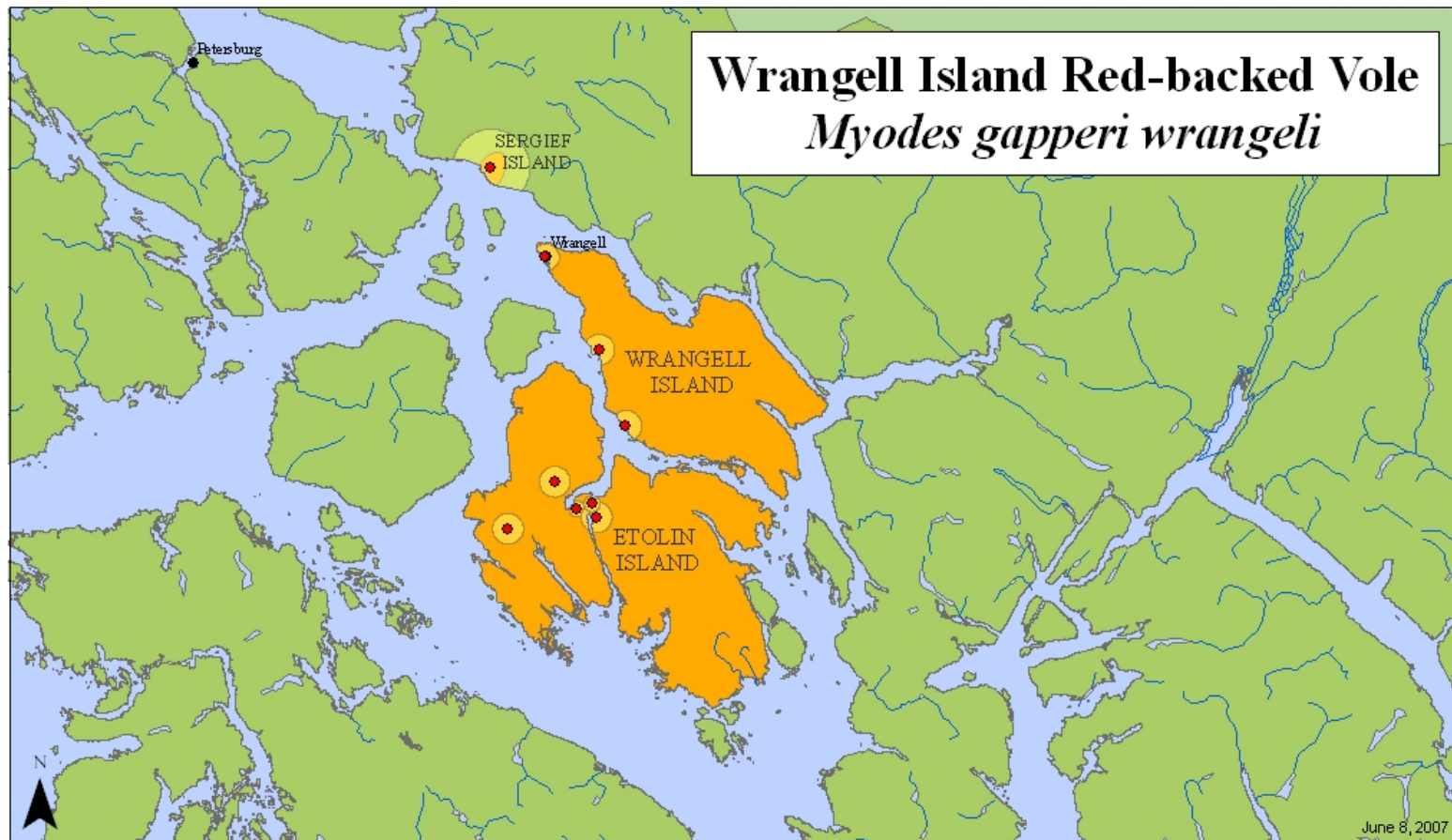
### Prince of Wales Flying Squirrel Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:1,221,718  
Alaska Albers Equal Area Conic Projection  
0 4.5 9 18 27 36  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



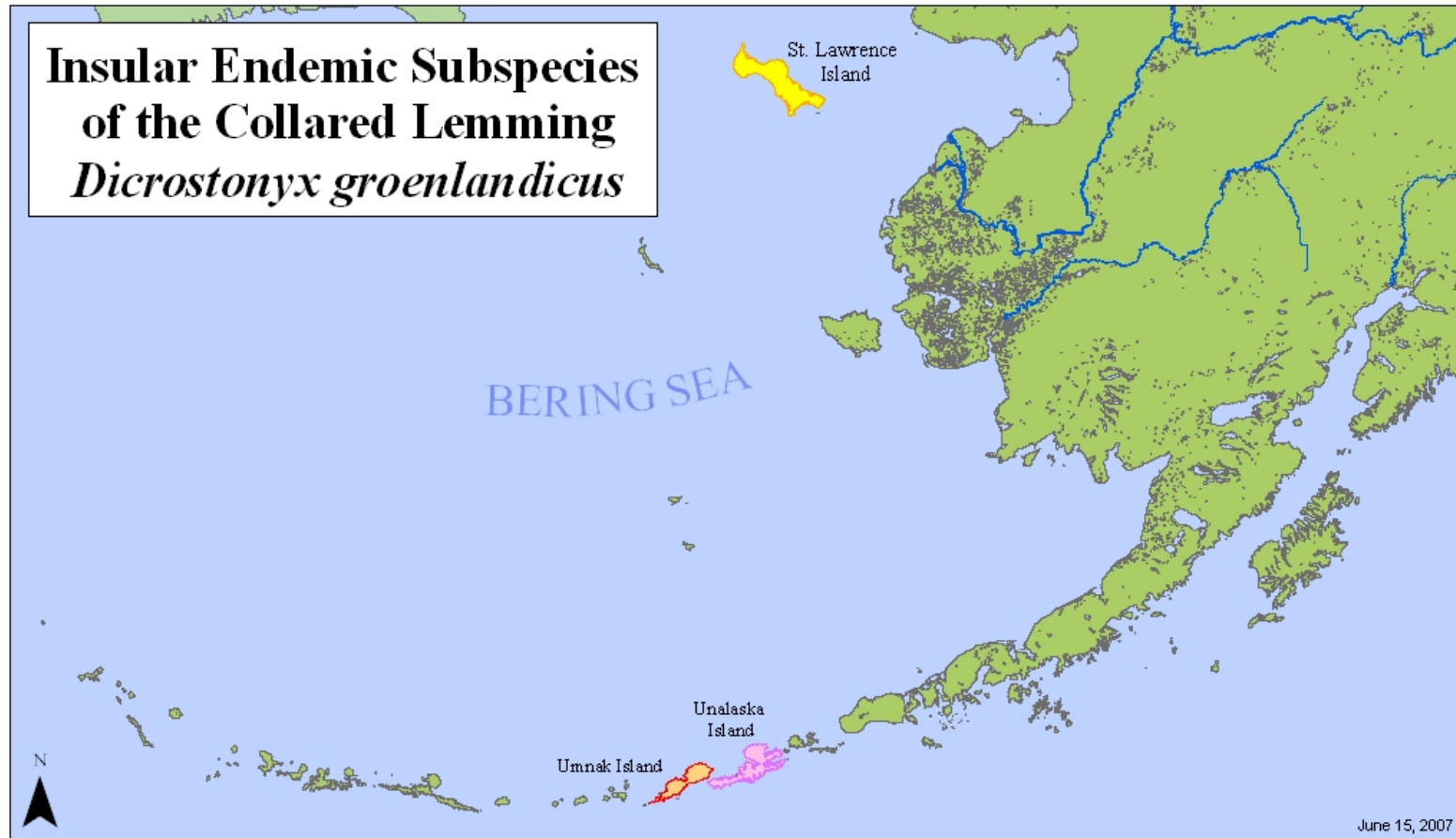
Scale 1:698,439  
Alaska Albers Equal Area Conic Projection  
0 5 10 20 30 40  
Kilometers

### Wrangell Island Red-backed Vole Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range



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Scale 1:8,731,600  
Alaska Albers Equal Area Conic Projection  
0 75 150 300 450 600  
Kilometers

### Collared Lemming Occurrence in Alaska

- Unalaska Collared Lemming (*D. g. unalascensis*) Range
- Umnak Collared Lemming (*D. g. stevensoni*) Range
- St. Lawrence Island Collared Lemming (*D. g. exsul*) Range

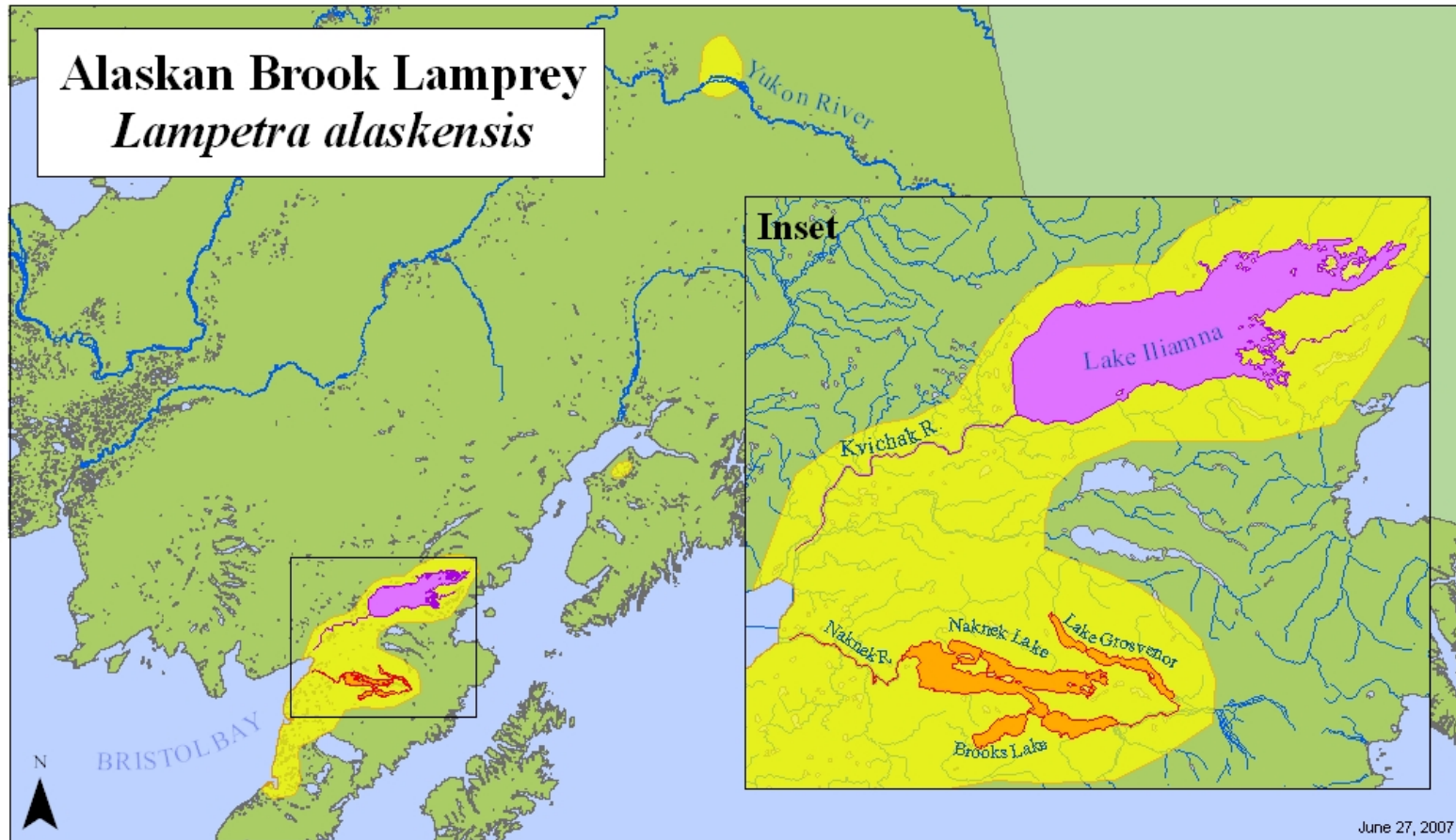


This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

## **Appendix I**

### **Fishes**





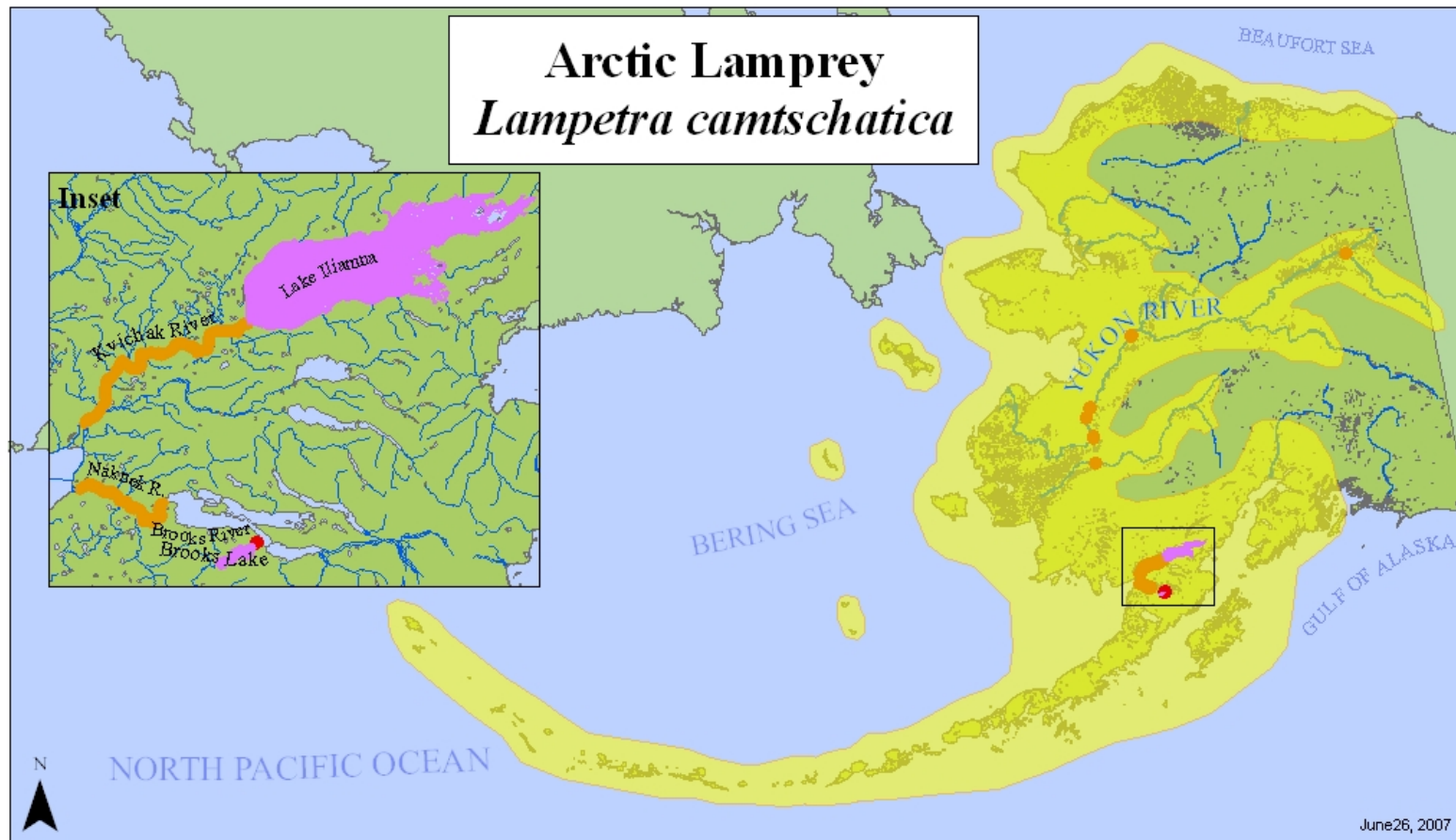
### Alaskan Brook Lamprey Occurrences in Alaska

- AKNHP Spawning Element Occurrence
- AKNHP Element Occurrence
- Range



Scale 1:6,285,694 (main map)  
Alaska Albers Equal Area Conic Projection  
0 55 110 220 330 440  
Kilometers

This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



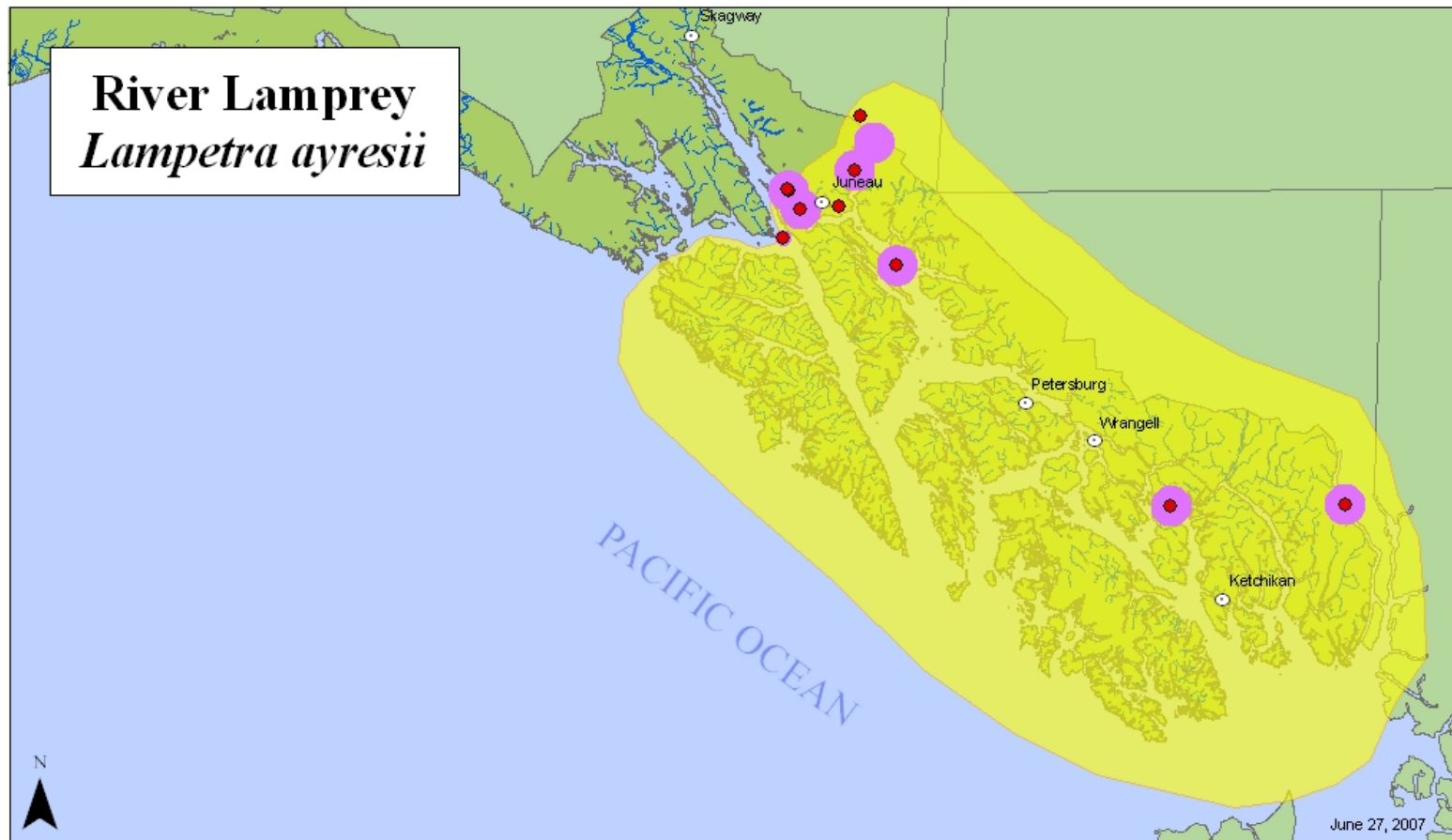
### Arctic Lamprey Occurrences in Alaska

- AKNHP Element Occurrences
- AKNHP Spawning Element Occurrences
- AKNHP Migration Element Occurrences
- Range



Scale 1:14,729,289 (main map)  
Alaska Albers Equal Area Conic Projection  
0 140 280 560 840 1,120  
Kilometers

This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



Scale 1:3,565,417  
Alaska Albers Equal Area Conic Projection  
0 30 60 120 180 240  
Kilometers

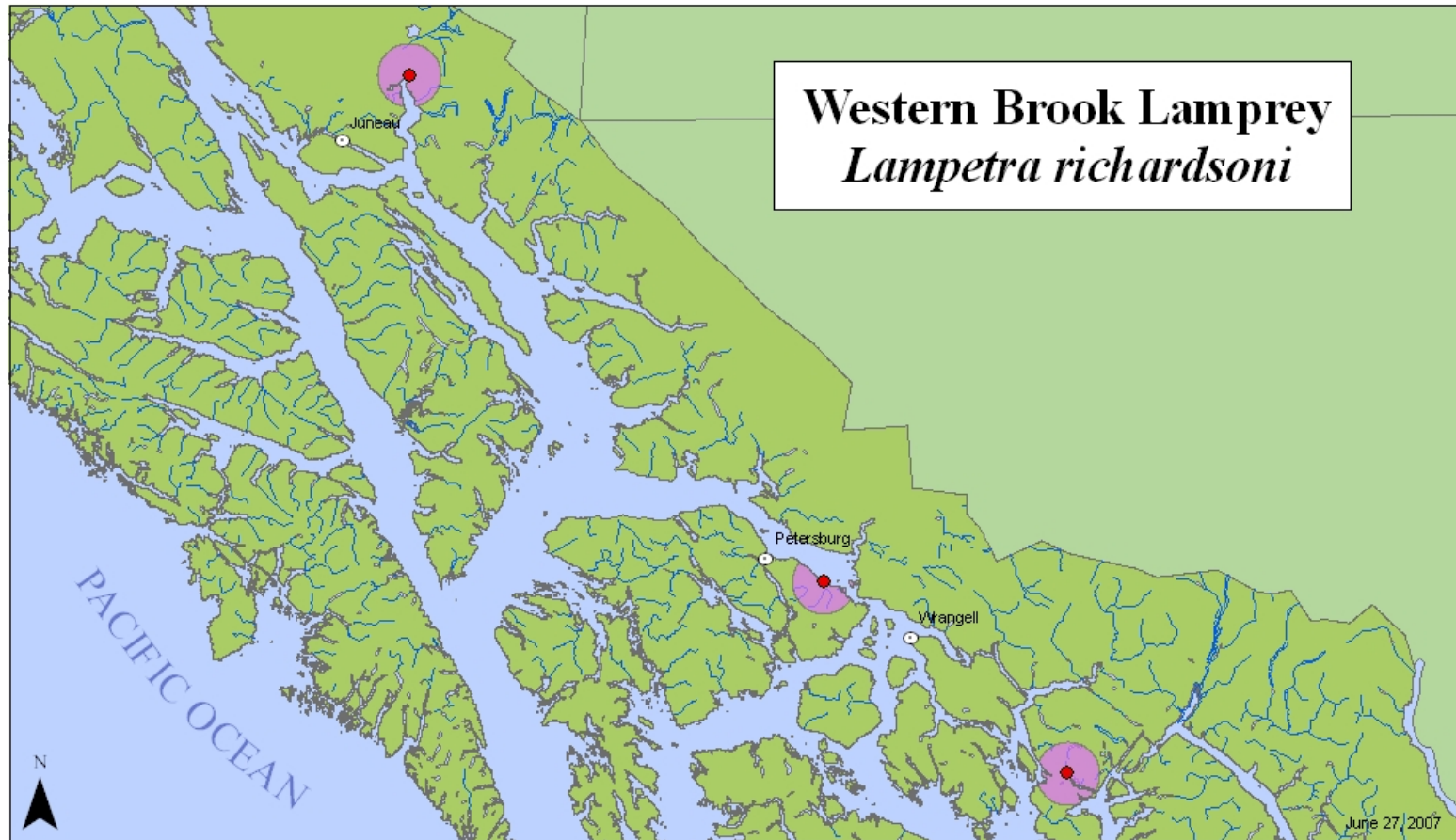
### River Lamprey Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





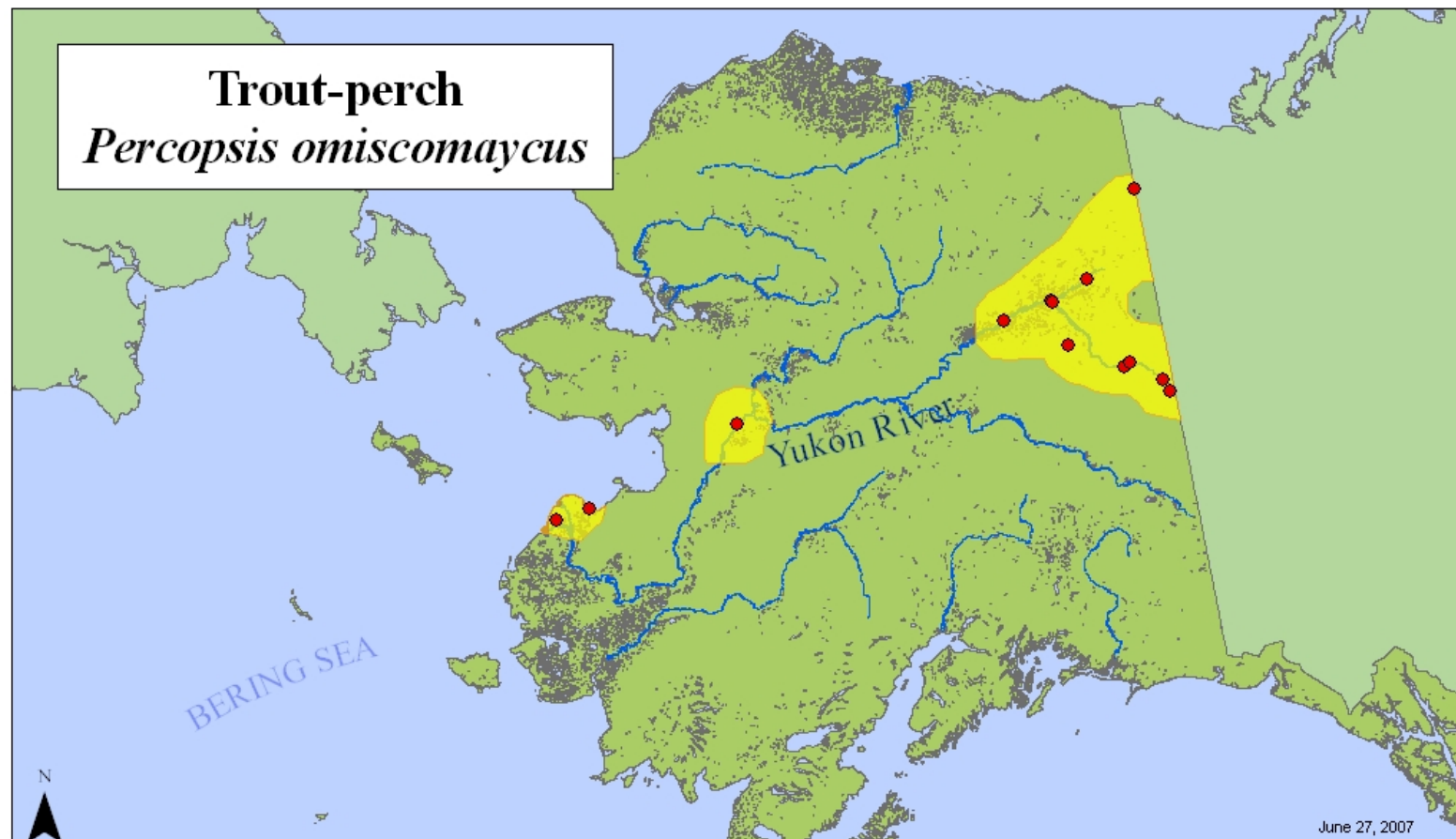
### Western Brook Lamprey Occurrences in Alaska

- Observations
- AKNHP Element Occurrences

Scale 1:1,719,931  
Alaska Albers Equal Area Conic Projection  
0 15 30 60 90 120  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Trout-perch Occurrences in Alaska

- Observations
- Range

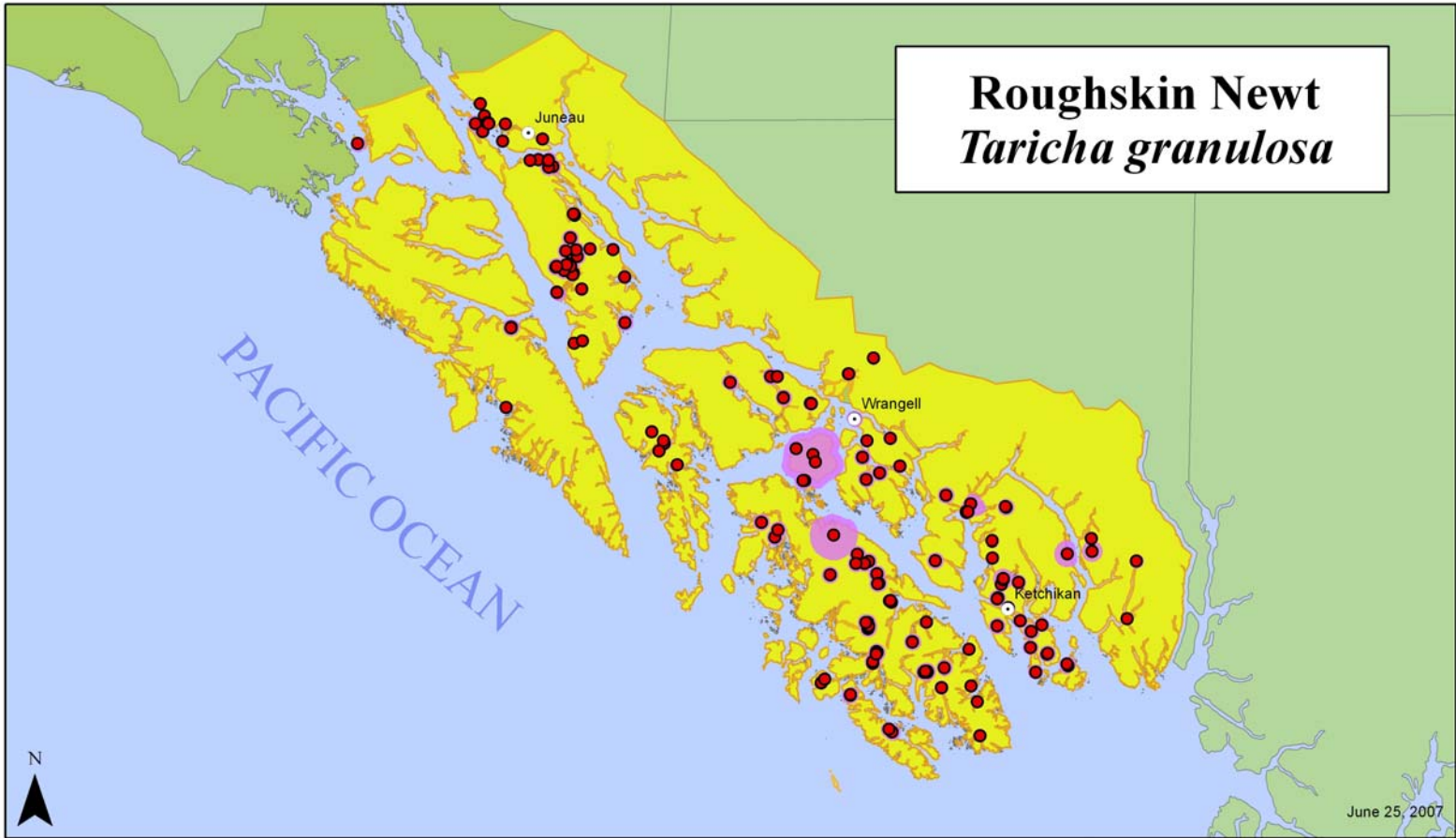
Scale 1:10,013,689  
Alaska Albers Equal Area Conic Projection  
0 65 130 260 390 520  
Kilometers



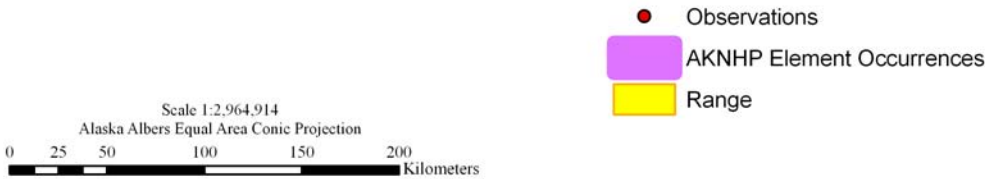
This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

## **Appendix I**

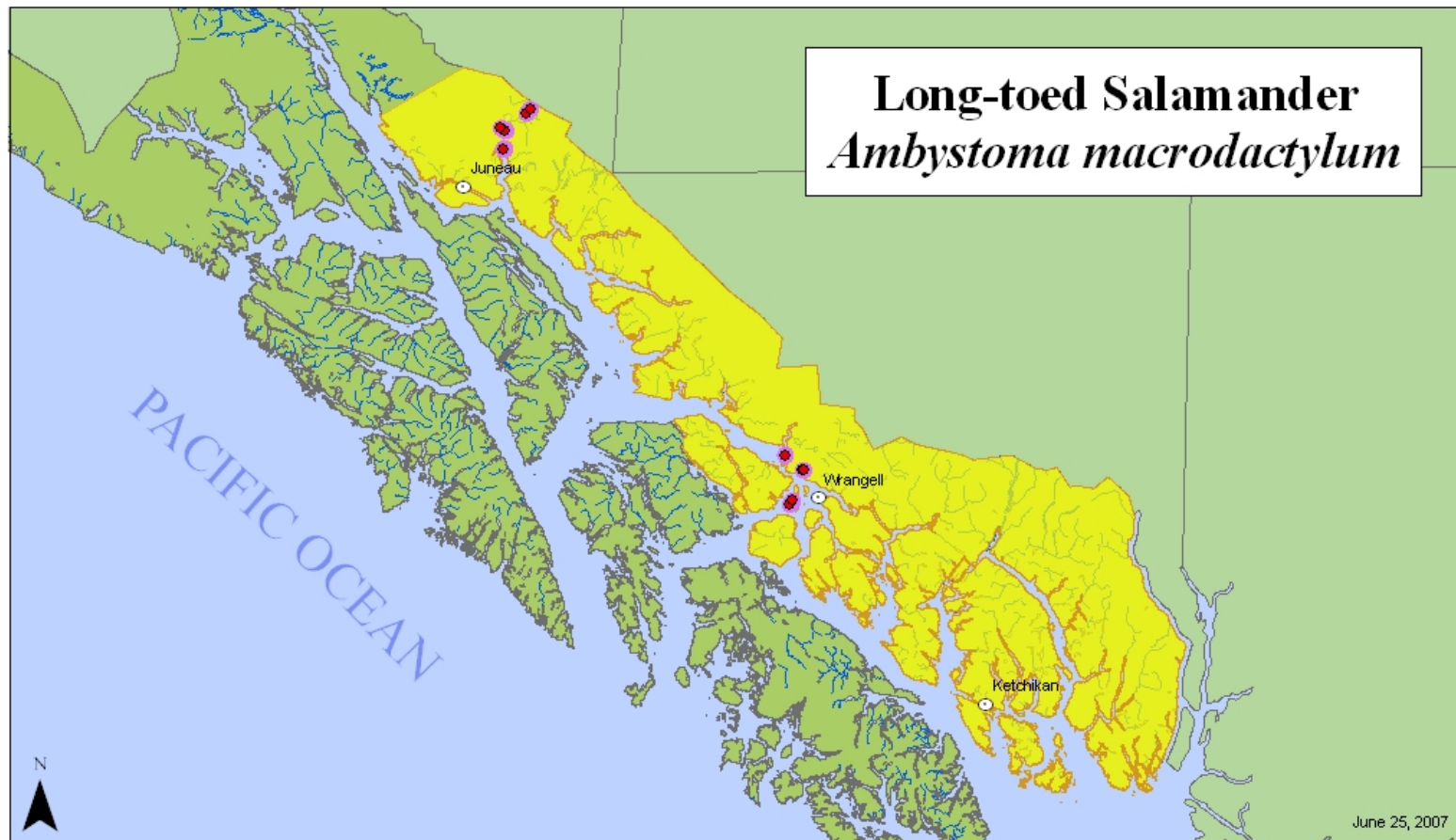
### **Amphibians**



**Roughskin Newt Occurrences in Alaska**



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Long-toed Salamander Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:2,738,800  
Alaska Albers Equal Area Conic Projection  
0 25 50 100 150 200  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





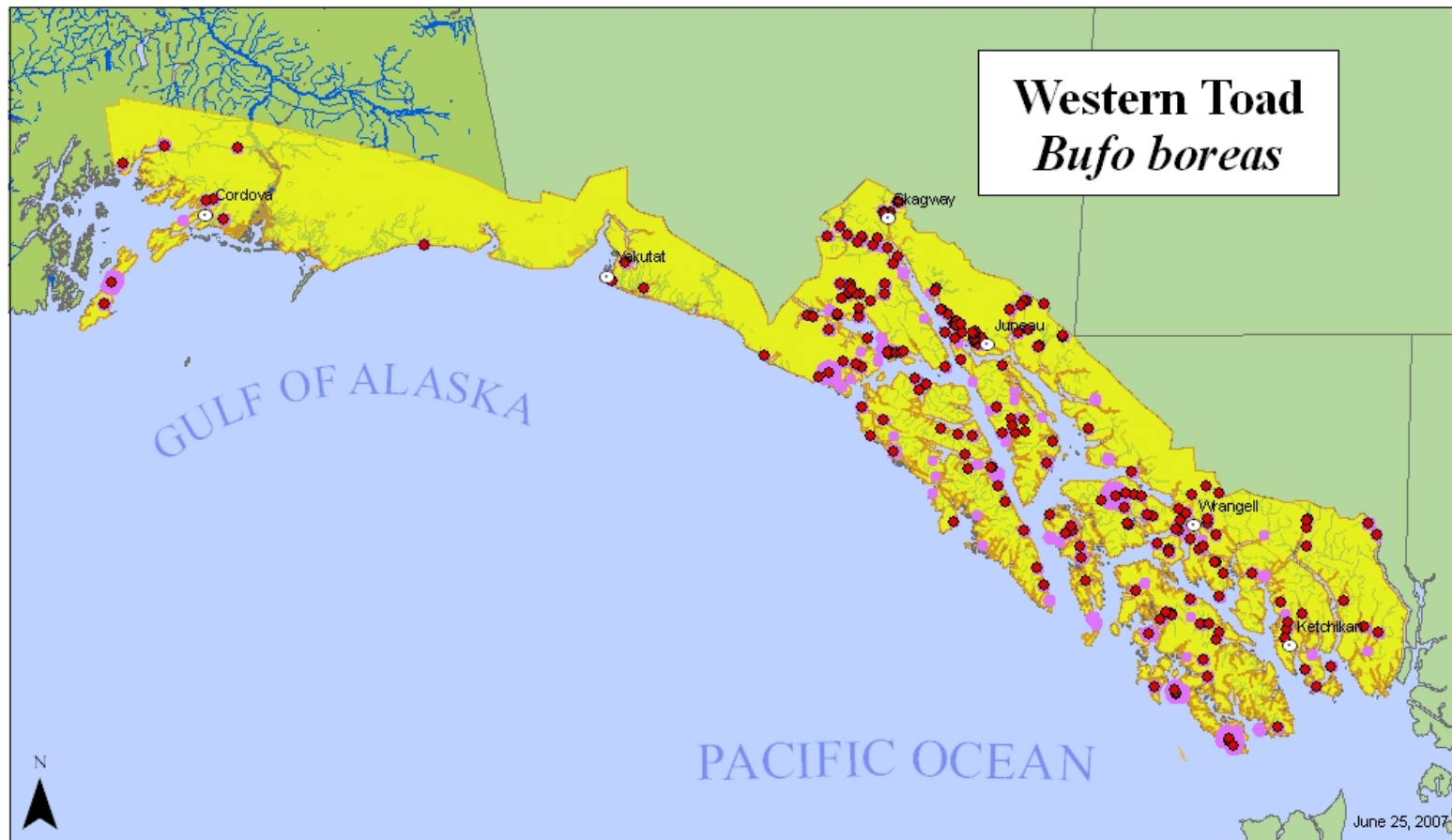
### Northwestern Salamander Occurrences in Alaska

Scale 1:2,998,227  
Alaska Albers Equal Area Conic Projection  
0 25 50 100 150 200  
Kilometers

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Western Toad Occurrences in Alaska

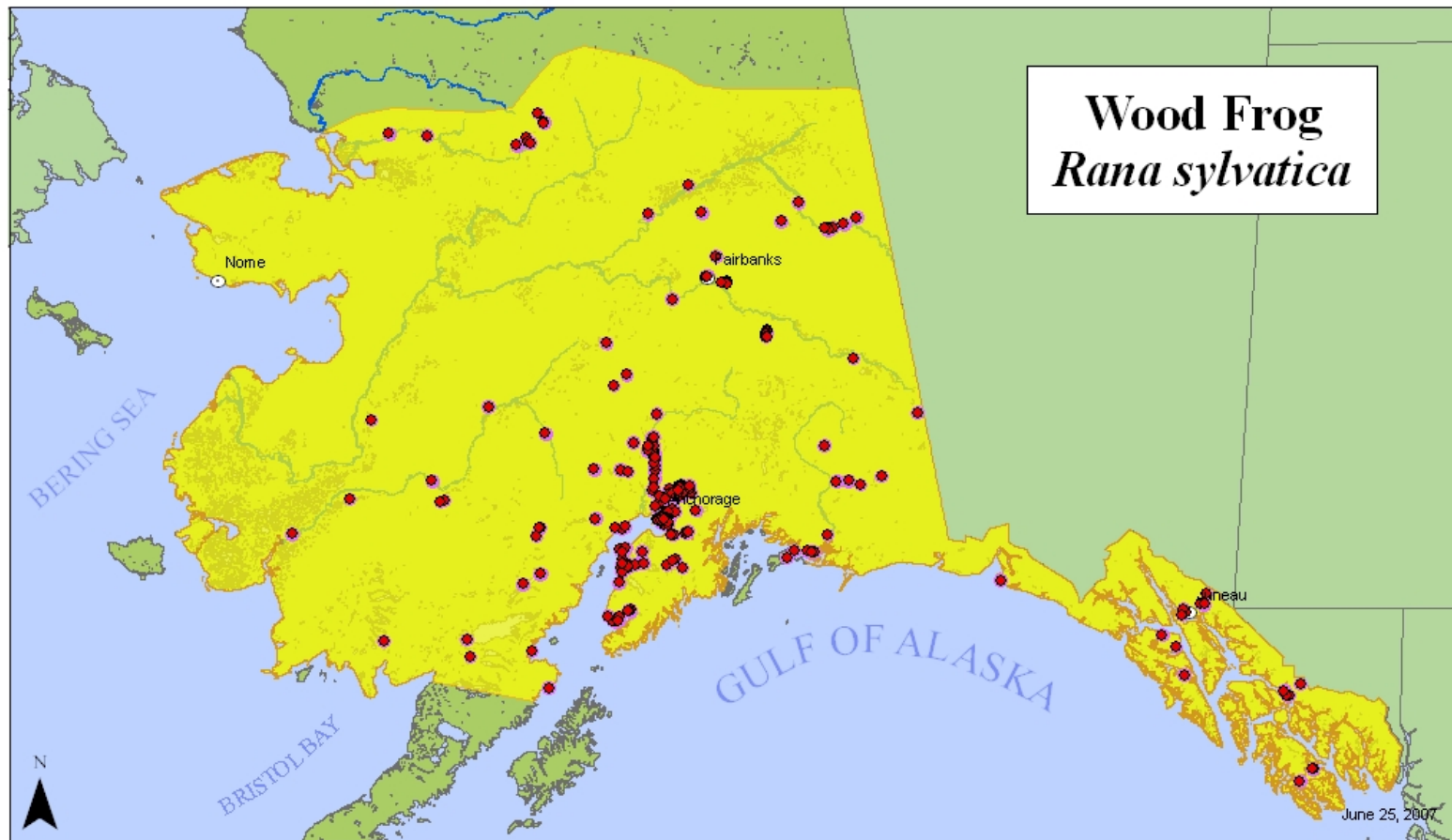
- Observations
- AKNHP Element Occurrences
- Range

Scale 1:4,697,223  
Alaska Albers Equal Area Conic Projection  
0 40 80 160 240 320 Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





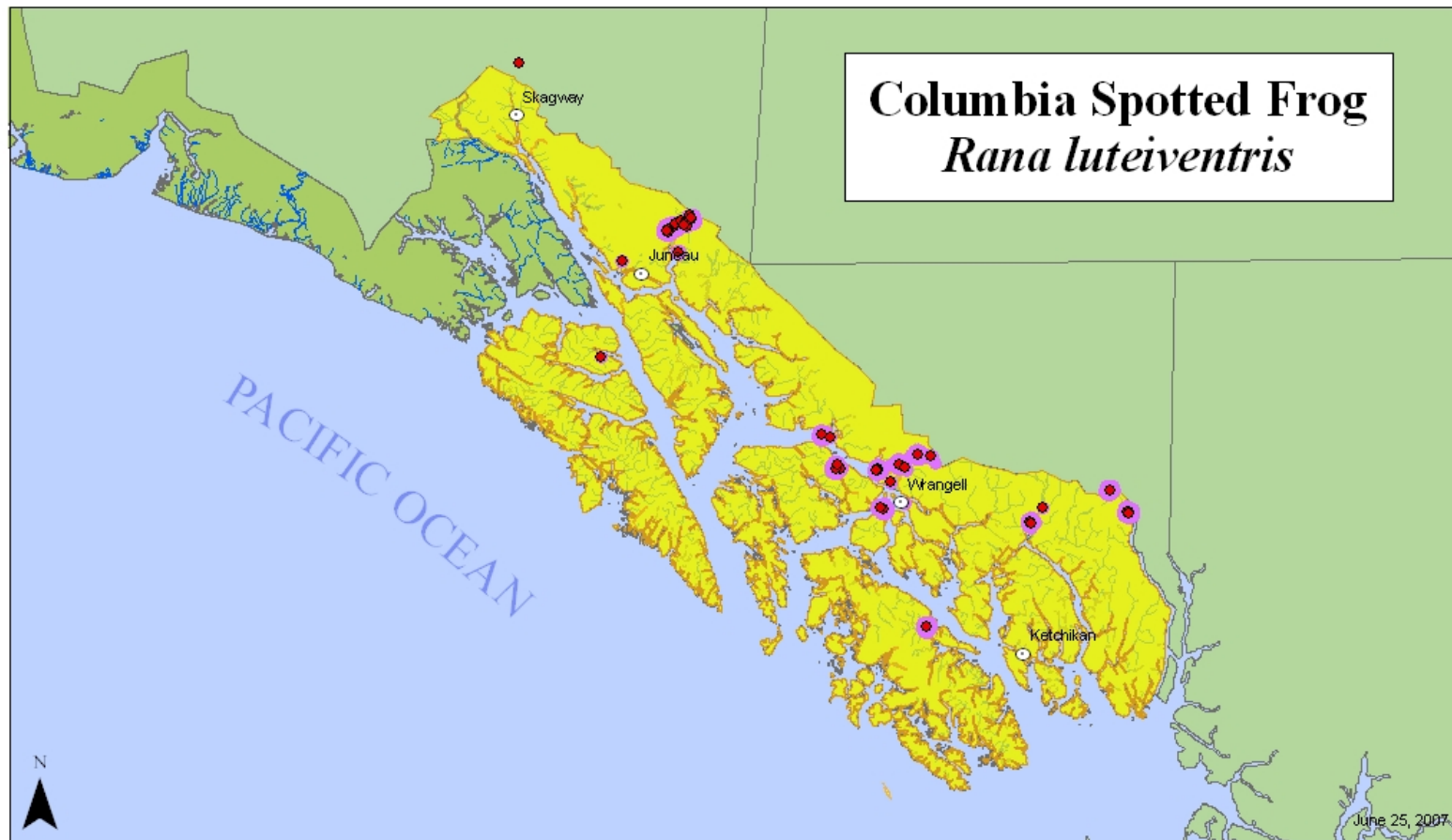
### Wood Frog Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:9,327,818  
Alaska Albers Equal Area Conic Projection  
0 80 160 320 480 640  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Columbia Spotted Frog Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range

Scale 1:3,731,127  
Alaska Albers Equal Area Conic Projection  
0 30 60 120 180 240  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

# **Appendix I**

## **Invertebrates**



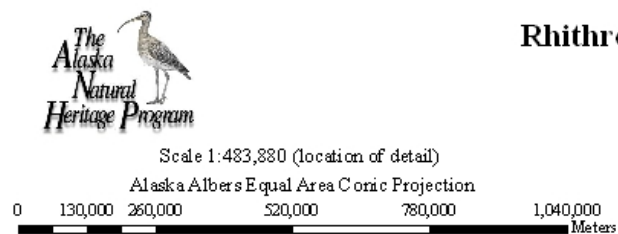
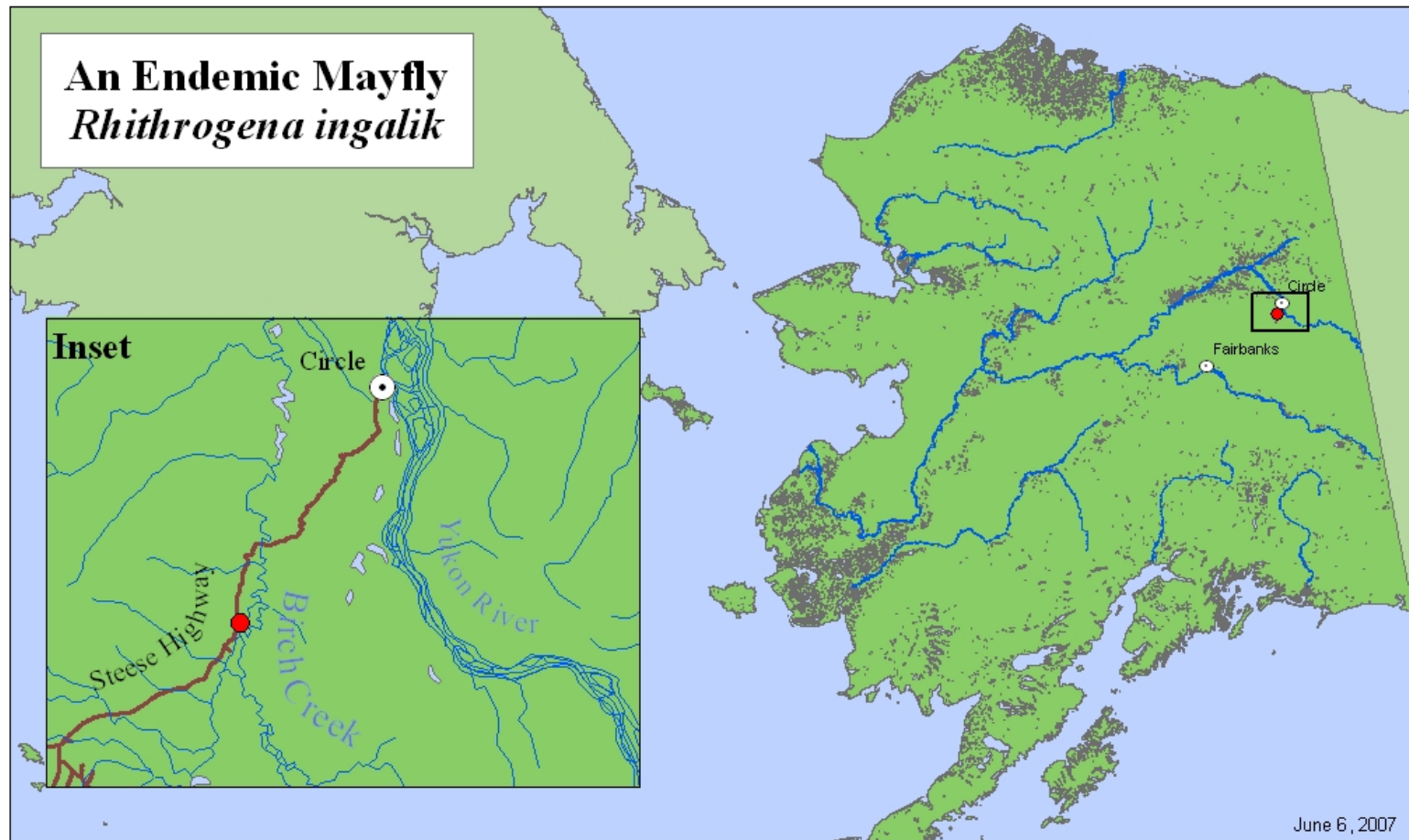
### *Stygobromus quatsinensis* Occurrences in Alaska

- Specimen Collections
- AKNHP Element Occurrences
- Range

Scale 1:764,274  
Alaska Albers Equal Area Conic Projection  
0 5 10 20 30 40  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

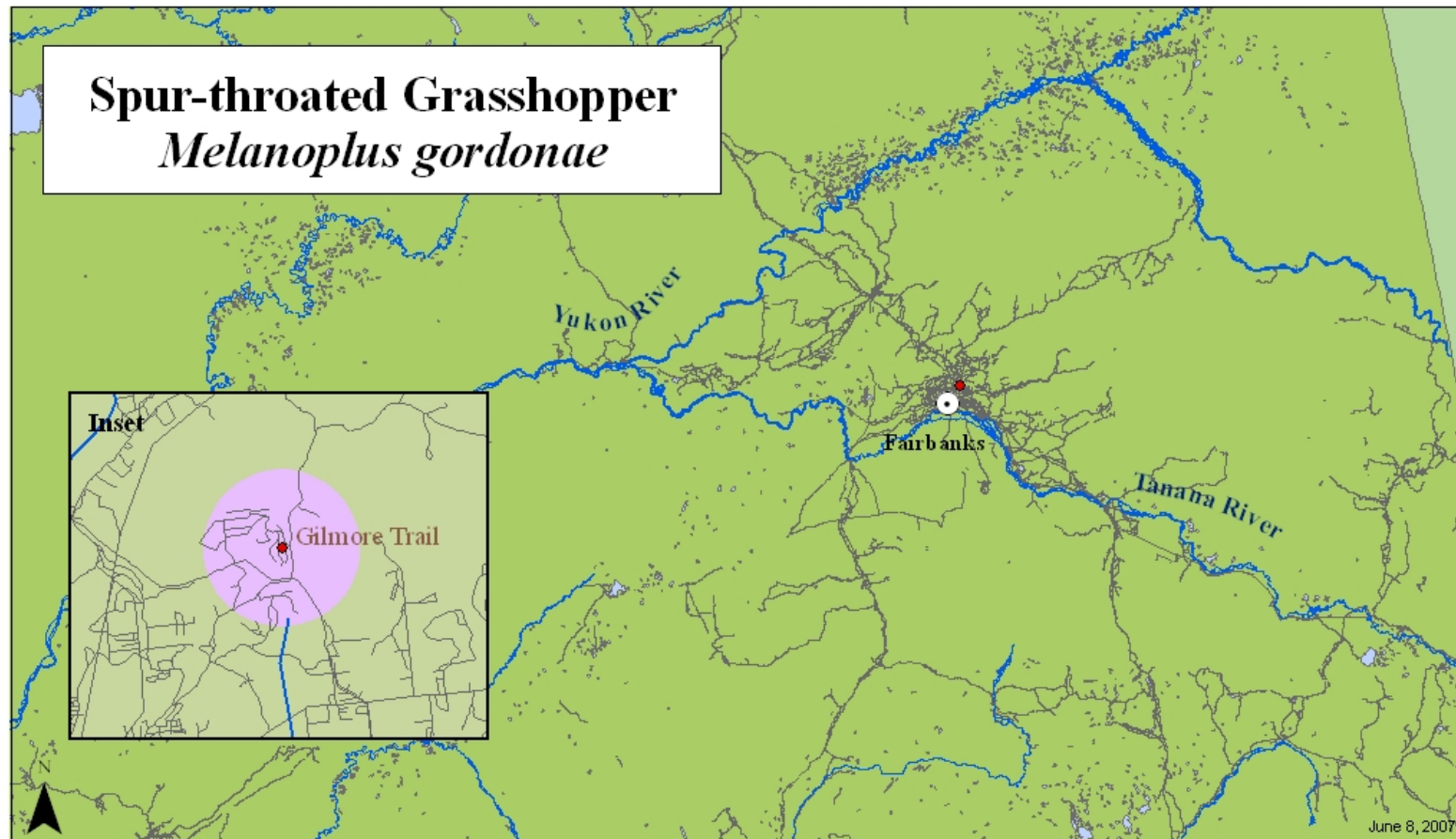


### *Rhithrogena ingalik* Occurrence in Alaska

● specimen collection







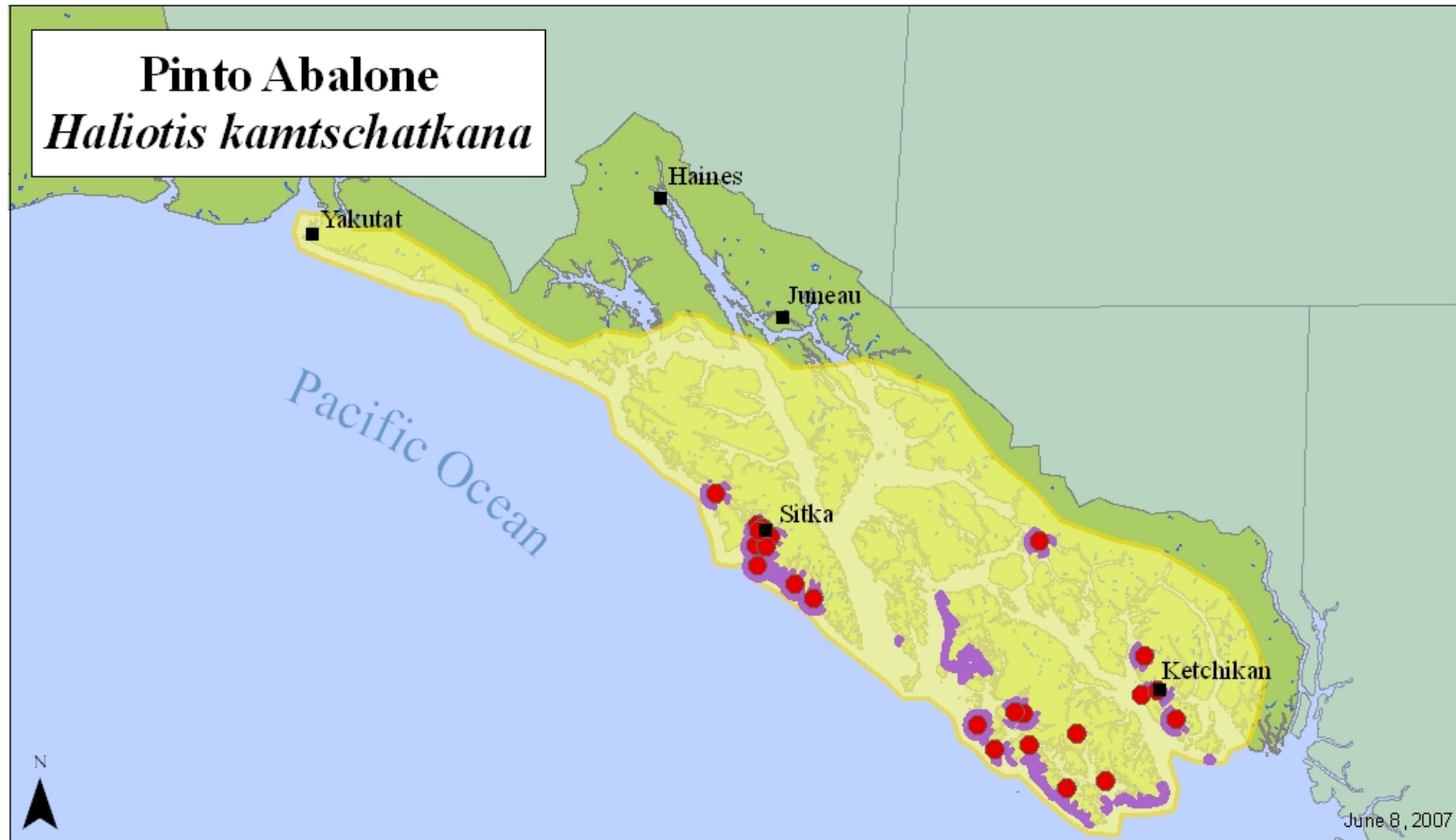
### Spur-throated Grasshopper Occurrences in Alaska

- Observation
- AKNHP Element Occurrence

Scale 1:3,436,649  
Alaska Albers Equal Area Conic Projection  
0 30 60 120 180 240  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



Scale 1:3,804,442  
Alaska Albers Equal Area Conic Projection  
0 35 70 140 210 280 Kilometers

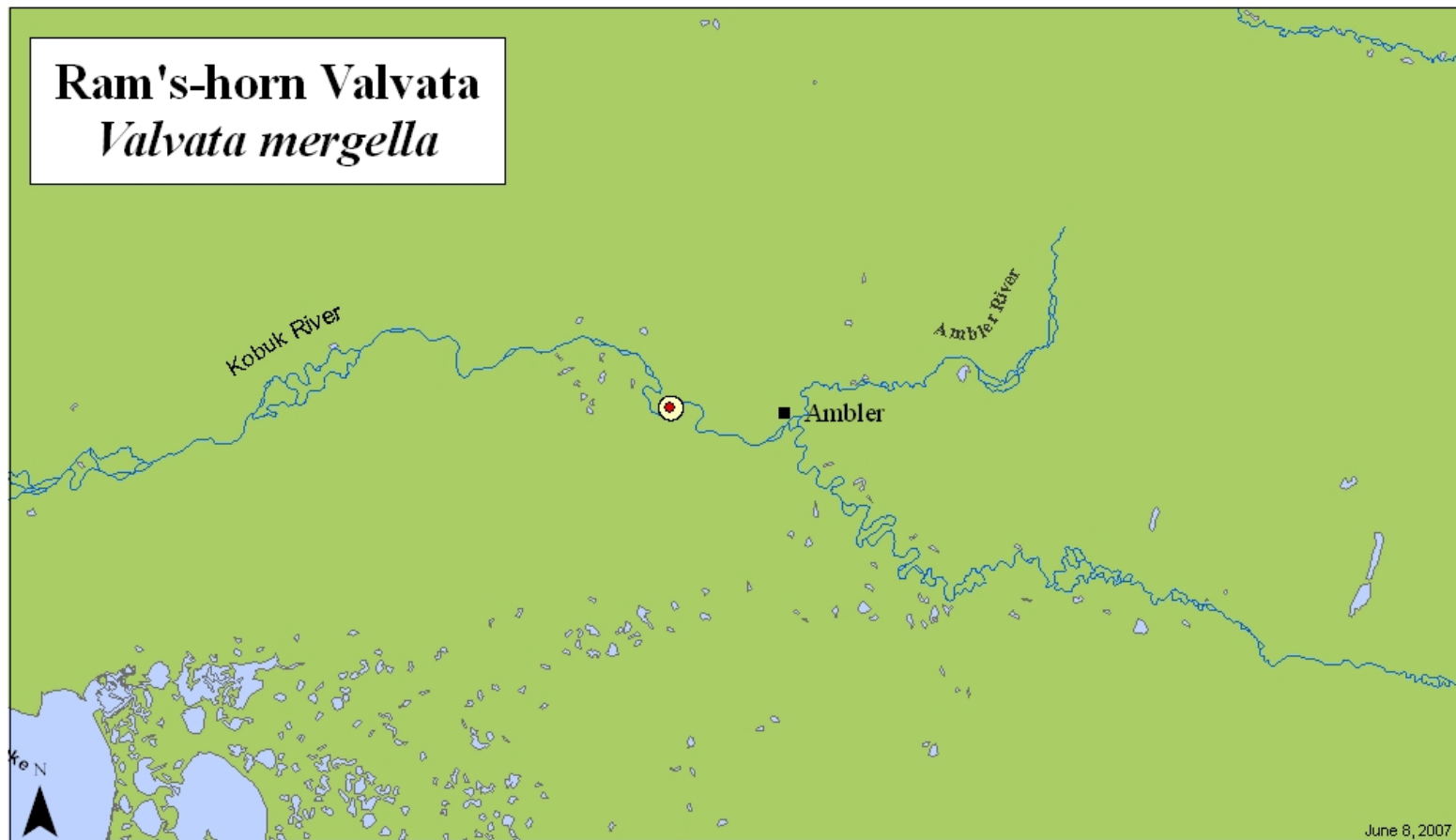
### Pinto Abalone Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>





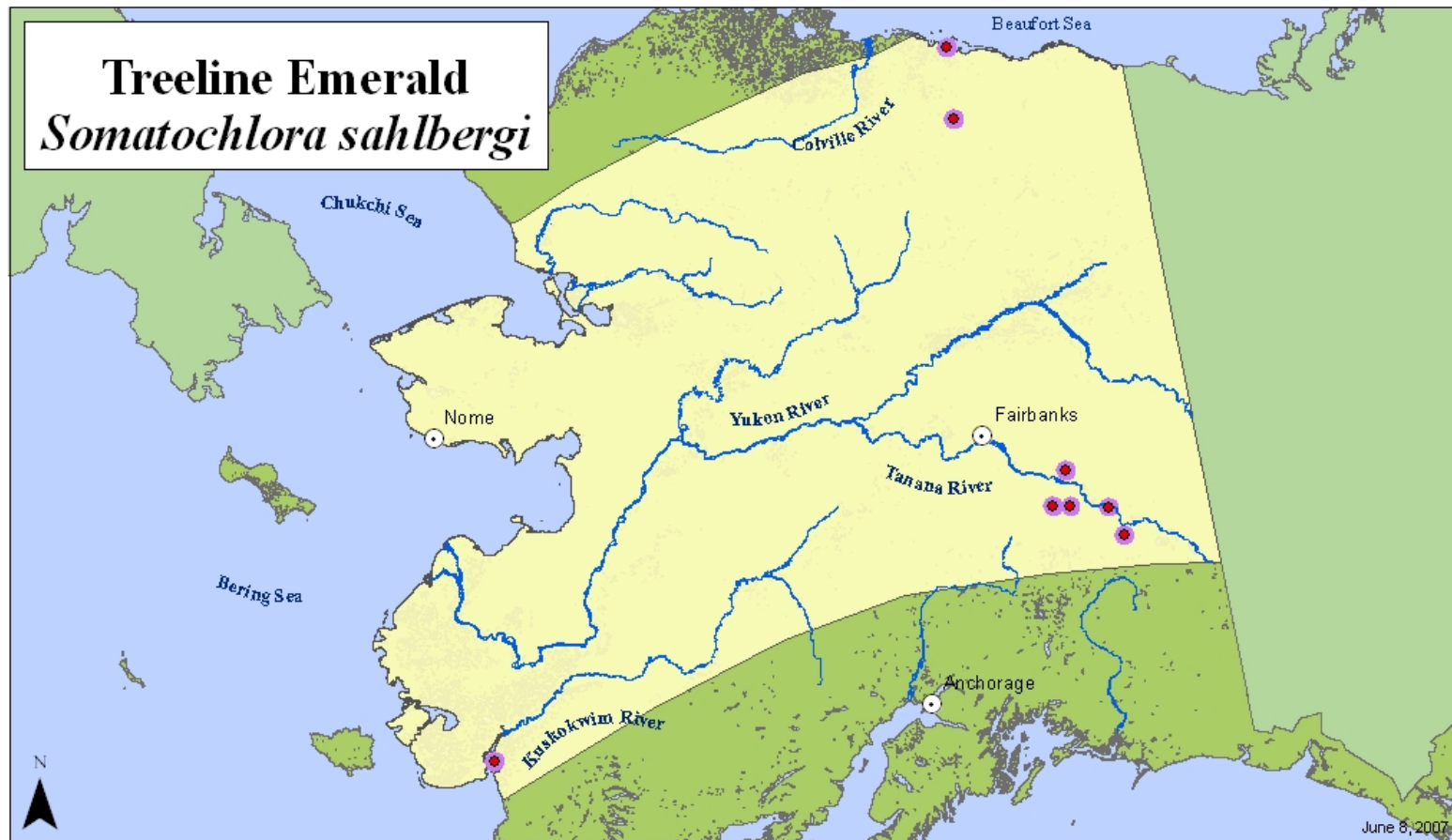
### Ram's horn valvata Occurrences in Alaska

- Observation
- AKNHP Element Occurrence

Scale 1:883,137  
Alaska Albers Equal Area Conic Projection  
0 5 10 20 30 40  
Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



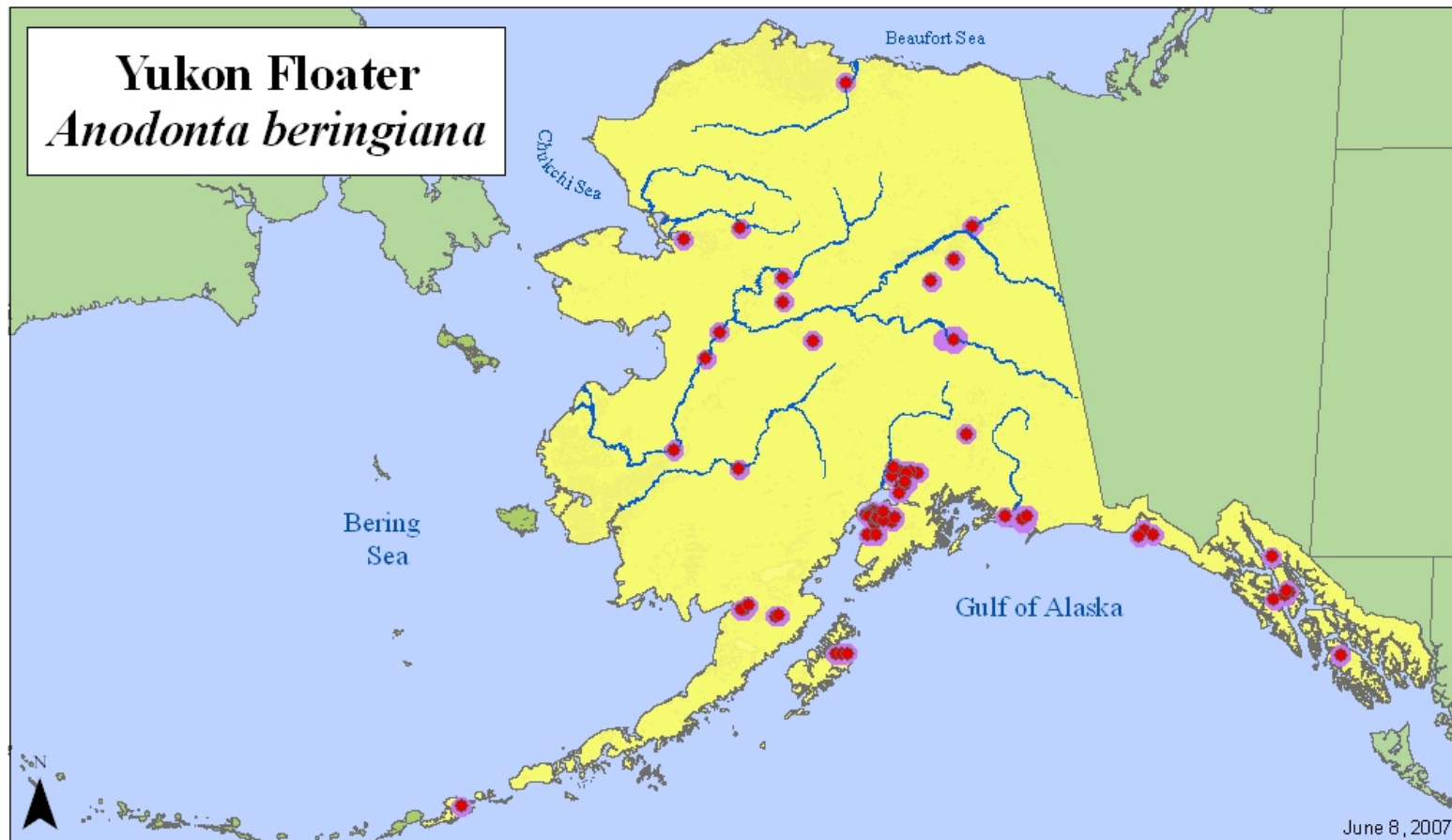
Scale 1:1,707,994  
Alaska Albers Equal Area Conic Projection  
0 80 160 320 480 640  
Kilometers

### Treeline Emerald Occurrences in Alaska

- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>



### Yukon Floater Mussel Occurrences in Alaska



Scale 1:15,388,635  
Alaska Albers Equal Area Conic Projection  
0 110 220 440 660 880  
Kilometers

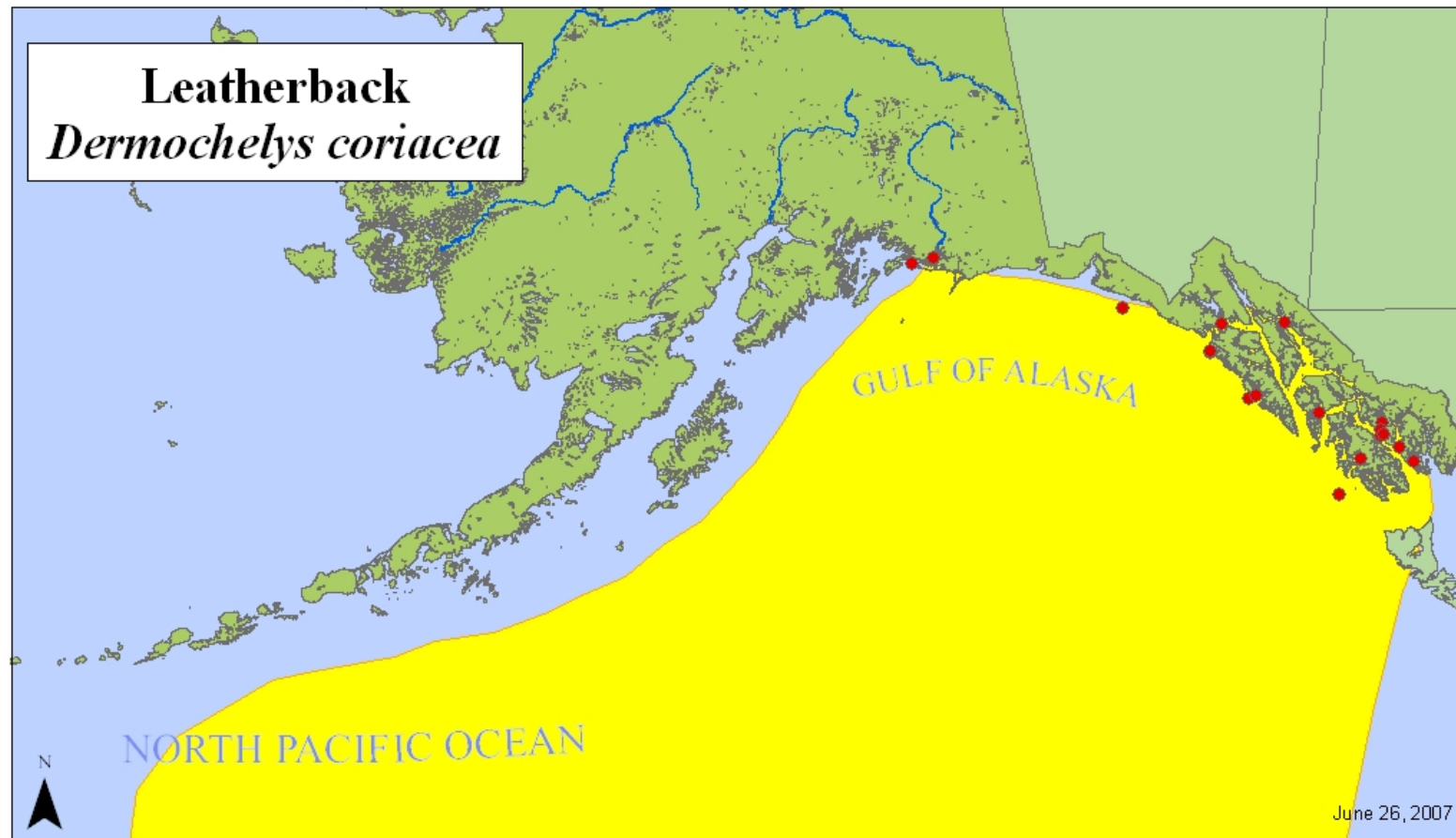
- Observations
- AKNHP Element Occurrences
- Range



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

## **Appendix I**

### **Reptiles**



### Leatherback Occurrences in Alaska

- Observations
- Range

Scale 1:10,265,152  
Alaska Albers Equal Area Conic Projection  
0 95 190 380 570 760 Kilometers



This map represents a compilation of published and unpublished data sources; for specific references contact AKNHP or see <http://aknhp.uaa.alaska.edu/>

## **Appendix II**

### **Bibliography**



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Adler, C. D. and S. Savage. 1999. Landbird inventories during fall migration at bible camp Becharof National Wildlife Refuge, Alaska July-September 1998. U.S. Fish and Wildlife Service, Alaska Peninsula/Becharof National Wildlife Refuge Complex. Unpubl. 3	Gray-cheeked Thrush, Olive-sided Flycatcher
Ainley, D. G. 1984. Cormorants: Family Phalacrocoracidae. Pp. 92-101. In: Seabirds of Eastern North Pacific and Arctic Waters. Haley, D., Ed. Pacific Search Press, Seattle WA.	Red-faced Cormorant
Alaska Department of Fish and Game (ADFG). 1981. Resident fish investigation on the lower Susitna River. Alaska Department of Fish and Game, Juneau, Alaska.	Bering cisco, Arctic lamprey
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Alaska Department of fish and Game. 1985. Broad whitefish life history and habitat requirements Arctic, Western, and Interior regions.	Broad whitefish
Alaska Department of Fish and Game. 2006. Our Wealth Maintained: A strategy for conserving Alaska's Diverse Wildlife and Fish Resources. Alaska Department of Fish and Game, Juneau, Alaska. 824 pages. Appendix 4 Available at <a href="http://sf.adfg.state.ak.us/statewide/ngplan/files/Seabirds.pdf">http://sf.adfg.state.ak.us/statewide/ngplan/files/Seabirds.pdf</a> . Accessed on 6/22/2007	Red-faced Cormorant
Alaska Fisheries Science Center (AFSC). 2003. Cetacean Survey. AFSC Quarterly Research Reports July-September. Alaska Fisheries Science Center. Seattle, WA. <a href="http://www.afsc.noaa.gov/Quaterly/jas2003/divrtsNMML2.htm">http://www.afsc.noaa.gov/Quaterly/jas2003/divrtsNMML2.htm</a> Accessed on 1-16-07	Sperm whale
Alaska Geographic Society. 1996. Mammals of Alaska: a comprehensive guide from the publishers of Alaska Geographic. 176p.	Alaska marmot, Sperm whale
Alaska Natural Heritage Program. 2006. Alaska Amphibian Database. Compiled for the Alaska Natural Heritage Program under contract with the Alaska Dept of Fish and Game. Assembled by Sanjay Pyare, University of Alaska Southeast, Juneau, AK. From multiple datasets provided by many contributors.	Columbia spotted frog, Rough-skinned newt, Western toad, Wood frog, Long-toed salamander, Northwestern salamander
Alaska Regional Response Team 1997 Unified Plan Volume II Subarea Contingency Plans- Biological Resources. Available online at: <a href="http://www.akrrt.org/plans.shtml">http://www.akrrt.org/plans.shtml</a> Accessed 2/21/07.	Pacific walrus, Polar bear

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| Alt, K.T. 1972. A life history study of sheefish and whitefish in Alaska. Federal aid in fish restoration, project F-9-4, study R-II. Alaska Department of Fish and Game, division of sport fish, Juneau, Alaska   | Trout perch,<br>Bering cisco,<br>Broad whitefish |
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Booz, M. 2005. Unpublished data. U.S. Geological Survey, Anchorage, AK.	Rusty Blackbird
Boreal Songbird Initiative 2007 Selected Birds of the Boreal Forest of North America. 2007 Online at : <a href="http://www.borealbirds.org/birdguide/BD0276_species.shtml">http://www.borealbirds.org/birdguide/BD0276_species.shtml</a> Accessed on 4/11/2007	Olive-sided Flycatcher
Brelsford, T., R. Peterson and T.L. Haynes. 1987. An overview of resource use patterns in three central Kuskokwim communities: Aniak, Crooked Creek, and Red Devil. Technical Paper No. 141, Alaska Department of Fish and Game Division of Subsistence, Fairbanks, AK. Available online at: <a href="http://www.subsistence.adfg.state.ak.us/TechPap/tp141.pdf">http://www.subsistence.adfg.state.ak.us/TechPap/tp141.pdf</a> . <u>Accessed 3/28/05.</u>	Arctic lamprey
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Rusty Blackbird

Bristle-thighed Curlew,  
Pribilof Rock Sandpiper

Rusty Blackbird

Rusty Blackbird

Rusty Blackbird

Prince of Wales flying  
squirrel,  
Silver-haired bat,  
Wrangell Island red-  
backed volePrince of Wales flying  
squirrel

Alaska marmot

Marbled Murrelet

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Pygmy whitefish

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Royal Ontario Museum (ROM). 2006. Specimen collection records. Internet specimen dataset provided by Global Biodiversity Information Facility, available online at: <a href="http://www.asia.gbif.net/">http://www.asia.gbif.net/</a>	Kittlitz's Murrelet
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Bristle-thighed Curlew

Arctic lamprey,  
Eulachon,  
River lamprey  
Broad whitefish,  
Pygmy whitefish,  
Alaska blackfish,  
Arctic lamprey,  
Eulachon,  
Ninespine stickleback,  
Pacific sand lance

King Eider

King Eider

Rusty Blackbird

Pacific walrus

Bristle-thighed Curlew

Bowhead whale

North Pacific right whale

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| Spindler, M.A. 1976. Pelagic and near-shore seabird densities in the western Aleutian islands as determined by transect counts in 1975 and 1976. Aleutian Islands National Wildlife Refuge, Adak, Alaska.  | Red-faced Cormorant  |

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Alaska marmot,  
Wrangell Island red-backed vole,  
Pribilof Island shrew

St. Lawrence Island shrew

Bristle-thighed Curlew,  
Alaska marmot

Alaska blackfish,  
Eulachon,  
Ninespine stickleback,  
Pacific sand lance

Alaska marmot

Alaska blackfish,  
Bering cisco,  
Broad whitefish,  
Eulachon,  
Ninespine stickleback,  
Pygmy whitefish

Rusty Blackbird

Gray-cheeked Thrush,  
Solitary Sandpiper,  
Bristle-thighed Curlew,  
Black Oystercatcher,  
Olive-sided Flycatcher,  
Smith's Longspur,  
Snowy Owl,  
Wandering Tattler

a spur-throat grasshopper

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