



of

Seal and Sea Lion Haulout Sites in Washington



Washington Department of
FISH AND WILDLIFE
Wildlife Science Division

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Atlas of Seal and Sea Lion Haulout Sites in Washington

Steven J. Jeffries, Patrick J. Gearin, Harriet R. Huber,
Don L. Saul and Darrell A. Pruett

February 2000



California sea lion with Steller sea lion males on rock east of Tatoosh Island. Cover photo: Patrick Gearin

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Addresses:

¹Washington Department of Fish and Wildlife
Wildlife Science Division
600 Capitol Way N
Olympia WA 98501-1091

²National Marine Fisheries Service
National Marine Mammal Laboratory
7600 Sand Point Way NE
Seattle WA 98115

Website address: www.wa.gov/wdfw/

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A special thanks for the skills and talents of the many pilots who have flown the many aerial surveys of Washington's marine waters looking for seals and sea lions including Val Judkins, Dave Rheaume, Jim Hodgson and Gary Thomas of the Washington Department of Fish and Wildlife's Aviation Division. Shelley Snyder and John Talmadge of the Washington Department of Fish and Wildlife's Geographic Information System provided expert assistance and advice for mapping locations and designing the atlas layout.

All photographs by Steven Jeffries unless otherwise indicated.

About the Atlas and Maps

The purpose of this atlas is to provide information on haulout sites for harbor seals, Steller sea lions, California sea lions, and northern elephant seals located in Washington waters. Locations are provided in order to conduct assessment surveys as well as identify important sites used by these species relative to potential sources of disturbance, development, and other uses of Washington's marine environment.

This atlas divides the various marine waters of Washington into survey regions which are based on the timing of harbor seal pupping seasons in different marine areas of Washington. Locations of haulout sites were mapped for sites which have been identified during aerial, ground and boat surveys conducted by personnel from the Washington Department of Fish and Wildlife, National Marine Fisheries Service and Cascadia Research Collective as part of ongoing assessment efforts for these pinniped species in Northwest waters.

Maps were produced in encapsulated postscript format using Arc/Info, revision 7.0.4 GIS software developed by Environmental Systems Research Institute (ESRI). The maps are projected in Washington State Plane South Zone, Datum NAD27. The latitudes and longitudes listed in the tables and appendices are likewise in Datum NAD27.

Haulout sites were digitized using the ESRI GIS software from USGS 7.5 minute quadrangles with several exceptions. In British Columbia, the Vancouver Island, Gulf Islands, and Race Rocks sites were digitized from NOAA Chart 18400 at a scale of 1:200,000. The sites located around the mouth of the Fraser River, Roberts Bank, Boundary Bay and Mud Bay were digitized from 1:50,000 scale Canadian quadrangle maps. Buoy sites in Puget Sound were digitized from NOAA Chart 18440 at a scale of 1:150,000.

The digital base maps came from a wide variety of sources. The Washington State shorelines were produced by the Washington Department of Natural Resources (DNR) at 1:24,000. The British Columbia shoreline at a scale of 1:2,000,000 was produced by the BC Ministry of Environment, Lands and Parks. The Oregon coast shoreline at a scale of 1:100,000 was supplied by the Oregon State GIS Service Center.

Mudflats and sandbars were derived largely from the National Wetlands Inventory (NWI) database. Some areas were updated using USGS 7.5 quadrangle maps and 1:50,000 Canadian quadrangle maps. Columbia River mudflats and sandbars were enhanced using data derived from the Washington River Information System (WARIS) developed by the Washington Department of Fish and Wildlife and Bonneville Power Administration.

U.S. Fish and Wildlife Service site codes were used as necessary to identify rocks and islands in the Washington Islands and San Juan Islands National Wildlife Refuges.

Explanation of Map Codes

Site Code: Code used within Washington State Department of Fish and Wildlife and National Marine Fisheries Service databases only.

Use code: Indicates the tidal state when a species is most likely to be hauled out at a site. “Low” means use of the site is primarily during low tide (i.e. intertidal shoals and reefs). “High” means use of the site is primarily during high tides (i.e. at channels near river mouths). “All” means use of the site is independent of tidal levels (i.e. log booms, buoys or floats).

Species Accounts

Harbor Seal (*Phoca vitulina richardsi*) Species Code: Pv

L: 75 to 180 cm; Wt: 9 to 120 kg; short coarse hair at birth; color ranging from pale or whitish w/black spots to nearly black overall, w/scattered whitish rings; flippers haired w/strong claws; two mammae.

This small, stocky seal is found throughout the temperate and arctic waters of the northern hemisphere, and has the widest distribution of any pinniped. It is considered a non-migratory species, breeding and feeding in the same area throughout the year. In water, harbor seals use their hind flippers for propulsion, but on land they hitch along using only its fore flippers.

The harbor seal is the most common, widely distributed pinniped found in Washington waters, and is frequently sighted by recreational boaters, ferry passengers and other users of the marine environment. Harbor seals use hundreds of sites to rest or haulout along the coast and inland waters, including intertidal sand bars and mudflats in estuaries, intertidal rocks and reefs, sandy, cobble, and rocky beaches, islands, logbooms, docks, and floats in all marine areas of the state. Group sizes typically range from small numbers of animals on some intertidal rocks to several thousand animals found seasonally in coastal estuaries. Males and females are similar in size (to 250 lbs) and coloration. Pelage patterns are typically a light colored base pelage with dark spots, although some individuals have a pelage which is reversed in coloration (dark colored base with light spots).

The harbor seal is the only pinniped species which is found year-round and breeds in Washington waters. Pupping seasons vary by geographic region, with pups born in coastal estuaries (Columbia River, Willapa Bay and Gray Harbor) from mid-April through June; Olympic Peninsula coast from May through July; San Juan Islands and eastern bays of Puget Sound from June through August; southern Puget Sound from mid-July through September; and Hood Canal from August through January. Females produce one pup per year, beginning at age four or five. Pups are precocious at birth, capable of swimming and following their mothers into the water immediately after birth. Pups typically remain with their mothers until weaning at 4-6 weeks of age. Pups call for their mothers until weaned with a sheep-like "m-a-a-a"; adults utter a variety of sounds including grunts, growls and barks.



Harbor seal female with nursing pup at Gertrude Island.

California Sea Lion (*Zalophus californianus*) Species Code: Zc

L: 76 to 245 cm; Wt: 6 to 450 kg; short dense hair; chocolate brown in color; naked flippers about 1/6 of overall length; four mammae; barks.

The California sea lion is the most frequently sighted otariid found in Washington waters and uses haulout sites along the outer coast, Strait of Juan de Fuca, and in Puget Sound. Haulout sites are located on jetties, offshore rocks and islands, logbooms, marina docks, and navigation buoys. This species also may be frequently seen resting in the water (rafted) together in groups in Puget Sound.

Only male California sea lions migrate into northwest waters, with females remaining in waters near their breeding rookeries off the coast of California and Mexico. This species was considered rare in Washington waters prior to the 1950's. Today peak numbers of 3,000-5,000 animals move into northwest waters (Washington and British Columbia) during the fall and remain until the late spring when most return to breeding rookeries in California and Mexico. Peak counts of over 1,000 animals have been made in Puget Sound in recent years. All age classes of males are present in Washington water, with animals ranging in size from 200 to 1000 lbs. Coloration of males is usually a dark or chocolate brown. The high forehead or sagittal crest with bleached out fur on top of the head is distinctive in adult males. Vocalizations can be described as barking.



California sea lion male on navigation buoy off Shilshole Bay in Puget Sound. Photo: Patrick Gearin

Steller Sea Lion (*Eumetopias jubatus*) Species Code: Ej

L: 105 to 320 cm; Wt: 18 to 1,100 kg; short, coarse hair; tawny to brownish; flippers very large, blackish, naked w/small nails; hind flippers about 1/5 of overall length; four mammae; growls.

The Steller (or Northern) sea lion is the largest of the eared or otariid seals found in Washington waters and uses haulout sites primarily along the outer coast from the Columbia River to Cape Flattery, as well as along the Vancouver Island side of the Strait of Juan de Fuca. Although breeding rookeries are located along the Oregon and British Columbia coasts, no breeding rookeries are found in Washington. Over its range, Steller sea lion population numbers have declined significantly over the last 15 years and the species is currently listed as either "Threatened" or "Endangered" under the Endangered Species Act.

In Washington, Steller sea lion numbers vary seasonally with peak counts of 1,000 animals present during the fall and winter months. Haulout sites are found on jetties, offshore rocks and coastal islands. This species may also be found occasionally on navigation buoys in Puget Sound as well. Both sexes are found in Washington waters, with males considerably larger (to 2,200 lbs) than females (to 700 lbs). Coloration varies from tawny through yellowish brown to dark brown. Vocalizations from adults can be described as a deep growling sound.



Steller sea lion male with California sea lions at tip of South Jetty, Columbia River.

Northern Elephant Seal (*Mirounga angustirostris*) Species Code: Ma

L: 120 to 600 cm; Wt: 35 to 3,600 kg; adult males possess a large, inflatable proboscis; hair short, sparse, grayish to brownish; flippers haired w/small claws; fore flippers slender, pointed; middle toes of hind flippers much shorter than outer; two mammae.

Northern elephant seals are the largest pinniped found in Northwest waters. A large adult male may weigh in excess of 2,000 lbs and is readily identified by a large inflatable proboscis. Females are considerably smaller in size (up to 1,000 lbs) and lack the inflatable proboscis. Breeding rookeries are located on beaches and islands in California and Mexico. Following both their winter breeding season and annual molt cycles, individuals disperse northward along the Oregon and Washington coasts. Males travel to feeding grounds in the Gulf of Alaska south of the Aleutian Islands; females feed in deep offshore waters between 35° and 45° N.

Solitary individuals occasionally seen in Washington inland waters. A few individuals use beaches at Destruction, Protection and Smith/Minor Islands as well as Dungeness Spit as haulout sites. In recent years, pups have been occasionally recorded at these sites as well. The northern elephant seal population has increased substantially in recent years and numbers in excess of 100,000 animals.



Northern elephant seal male resting on beach at San Miguel Island, California.



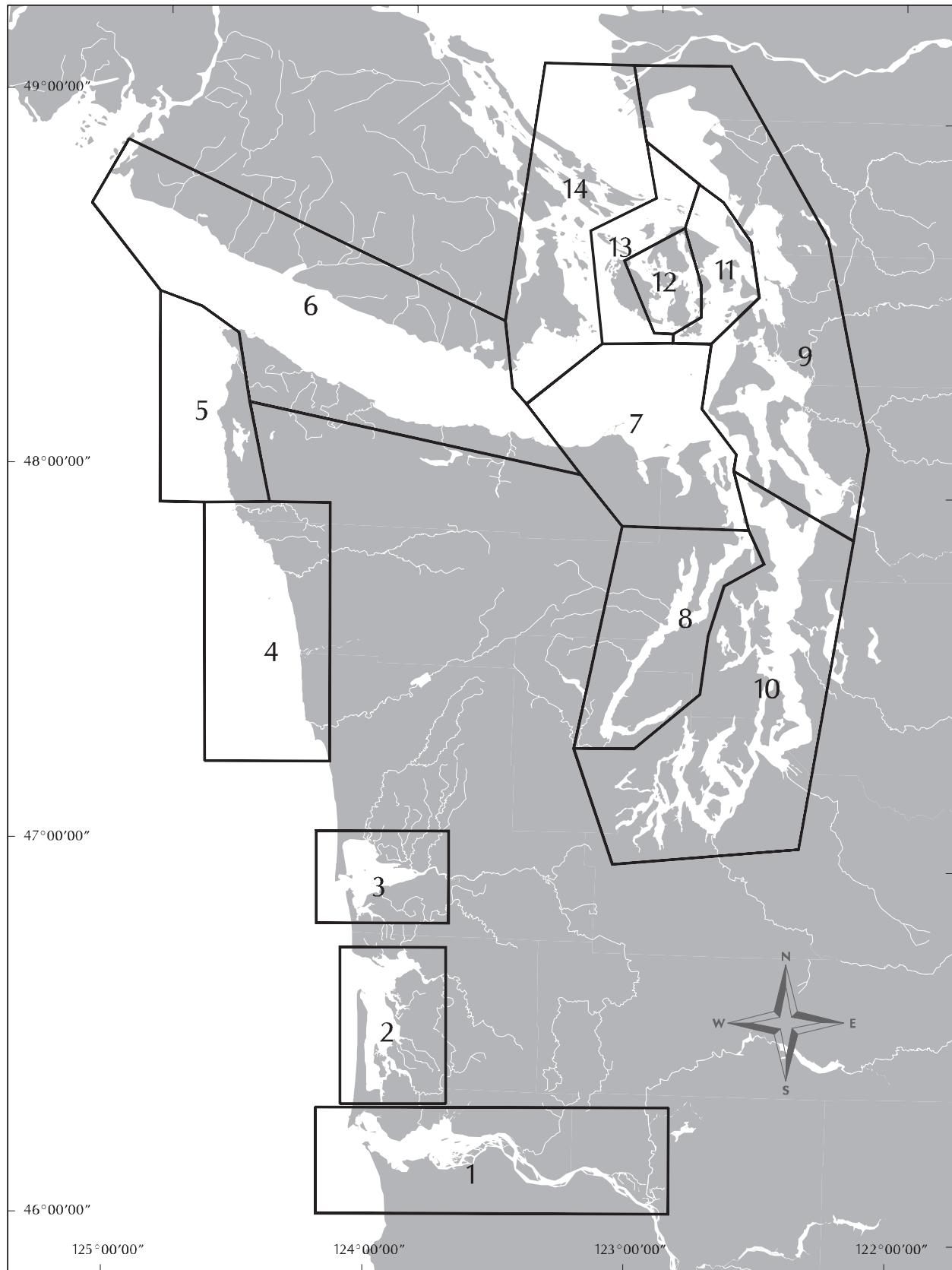
Northern elephant seal females resting on beach at San Miguel Island, California.

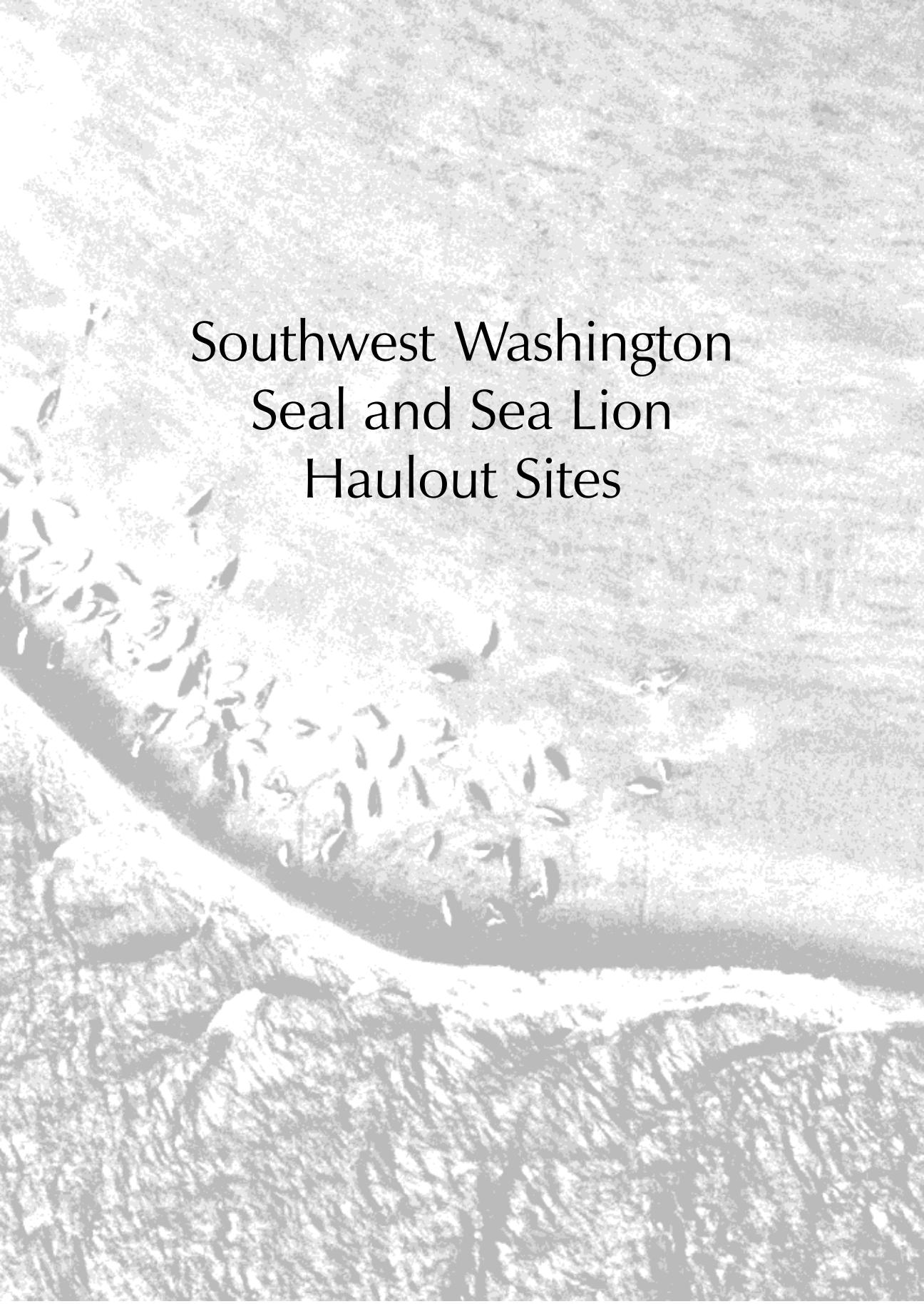
Pinniped Haulout Regions

This haulout site atlas divides the marine areas of Washington state and adjacent waters into 14 survey regions as follows:

- Region 1** Columbia River (Pacific Ocean to Cowlitz River)
- Region 2** Willapa Bay
- Region 3** Grays Harbor
- Region 4** Olympic Coast-South (Quillayute River to Point Grenville)
- Region 5** Olympic Peninsula-North (Cape Flattery to Quillayute River)
- Region 6** Strait of Juan de Fuca-West (Cape Beale to Port Angeles)
- Region 7** Strait of Juan de Fuca-East (Port Angeles to Whidbey Island)
- Region 8** Hood Canal
- Region 9** Eastern Bays (Boundary Bay to Port Gardner)
- Region 10** Puget Sound (Whidbey Island to Olympia)
- Region 11** San Juan Islands (Rosario Strait)
- Region 12** San Juan Islands (San Juan Channel)
- Region 13** San Juan Islands (Haro Strait)
- Region 14** British Columbia (Fraser River to Race Rocks)

Pinniped Haulout Regions Washington State and Adjacent Waters





Southwest Washington Seal and Sea Lion Haulout Sites



Region 1: Columbia River

Use NOAA Charts 18521 (Pacific Ocean to Harrington Point); 18523 (Harrington Point to Crims Island); and 18524 (Crims Island to Vancouver) for navigation and bathymetry details.

Large numbers of both Steller and California sea lions can be found seasonally at the tip of the South Jetty. California sea lions regularly are found upriver during the winter and spring using navigation buoys, jetty at the East Mooring Basin in Astoria, and at times on log booms in Carroll Slough near the mouth of the Cowlitz River. Small numbers of California sea lions are also frequently found upriver as far as Bonneville Dam and Willamette Falls.

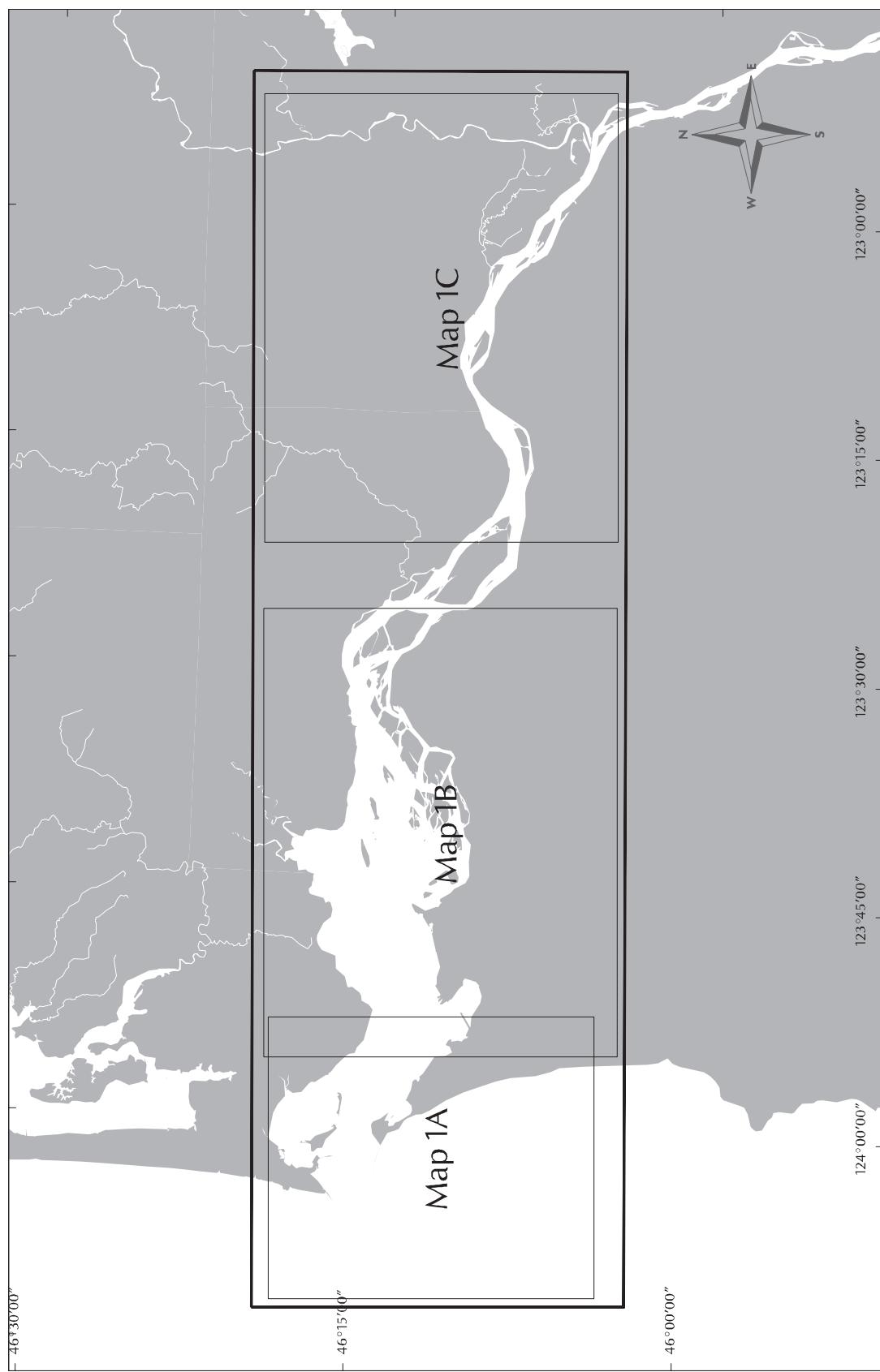
Numerous harbor seal haulout sites are found on intertidal mudflats and sand bars in the lower Columbia River. Nursery areas are present in Cathlamet Bay. Peak harbor seal abundances in the Columbia River occur during the winter and spring when a number of upriver haulout sites are used. Peak abundances and upriver movements in the winter and spring months are correlated with spawning runs of eulachon smelt and out migration of salmonid smolts. The harbor seal pupping season in the Columbia River occurs from mid-April through June.



Steller sea lions hauled out on tip of South Jetty, Columbia River, June 4, 1996.

Columbia River

Region 1: Mouth to Cowlitz River



Region 1: Columbia River

| <u>ID</u> | <u>Location</u> | <u>Survey Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|------------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 1 | Large Navigation Bouy | 01.01 | 4612.17 | 12411.00 | ZC,EJ | 100-500 | ALL |
| 2 | Tip of South Jetty | 01.02 | 4614.03 | 12403.94 | EJ,ZC,PV | 100-500 | ALL |
| 3 | Chinook/Baker Bay | 01.03 | 4615.90 | 12357.89 | PV | <100 | LOW |
| 4 | Chinook/Baker Bay | 01.03 | 4615.74 | 12357.63 | PV | <100 | LOW |
| 5 | Desdemona Sands | 01.04 | 4612.80 | 12355.90 | PV | 100-500 | LOW |
| 6 | Desdemona Sands | 01.04 | 4613.19 | 12353.61 | PV | <100 | LOW |
| 7 | Desdemona Sands | 01.04 | 4612.73 | 12353.33 | PV | 500> | LOW |
| 8 | Taylor Sands | 01.05 | 4614.20 | 12348.40 | PV | 500> | LOW |
| 9 | Grays Bay | 01.06 | 4616.14 | 12342.42 | PV | <100 | LOW |
| 10 | Grays Bay | 01.06 | 4616.71 | 12443.54 | PV | <100 | LOW |
| 11 | Grays Bay | 01.06 | 4616.50 | 12343.54 | PV | <100 | LOW |
| 12 | Cathlamet Bay | 01.07 | 4612.31 | 12339.56 | PV | 100-500 | LOW |
| 13 | Cathlamet Bay | 01.07 | 4612.99 | 12341.74 | PV | <100 | LOW |
| 14 | Cathlamet Bay | 01.07 | 4612.86 | 12340.50 | PV | <100 | LOW |
| 15 | Lower Woody/Snag Island | 01.08 | 4613.40 | 12337.55 | PV | <100 | LOW |
| 16 | Lower Woody/Snag Island | 01.08 | 4613.95 | 12337.10 | PV | <100 | LOW |
| 17 | Lower Woody/Snag Island | 01.08 | 4613.92 | 12336.59 | PV | <100 | LOW |
| 18 | South of Miller Sands | 01.09 | 4613.87 | 12338.84 | PV | <100 | LOW |
| 19 | Three Tree Point Area | 01.10 | 4615.77 | 12330.85 | PV | 100-500 | LOW |
| 20 | Three Tree Point Area | 01.10 | 4615.28 | 12330.79 | PV | 100-500 | LOW |
| 21 | NE of Welch Island | 01.11 | 4614.99 | 12327.03 | PV | <100 | LOW |
| 22 | Wallace Island/Eureka Bar | 01.12 | 4608.74 | 12316.04 | PV | <100 | LOW |
| 23 | Wallace Island/Eureka Bar | 01.12 | 4608.91 | 12315.26 | PV | <100 | LOW |
| 24 | Cowlitz River/Carroll Slough | 01.13 | 4605.98 | 12254.34 | PV,ZC | 100-500 | LOW |
| 25 | Cowlitz River/Carroll Slough | 01.13 | 4605.53 | 12253.66 | ZC | <100 | LOW |
| 26 | Tongue Point Sands | 01.14 | 4613.88 | 12345.86 | PV | 500> | LOW |
| 27 | Tongue Point Sands | 01.14 | 4614.08 | 12345.16 | PV | <100 | LOW |
| 28 | E Puget Island | 01.15 | 4608.95 | 12318.76 | PV | 100-500 | LOW |
| 29 | Astoria/E Mooring Basin | 01.16 | 4611.80 | 12347.95 | ZC | 100-500 | ALL |

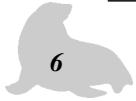
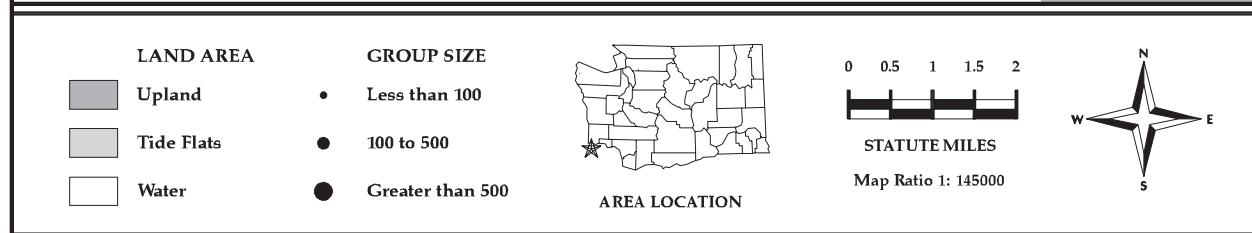
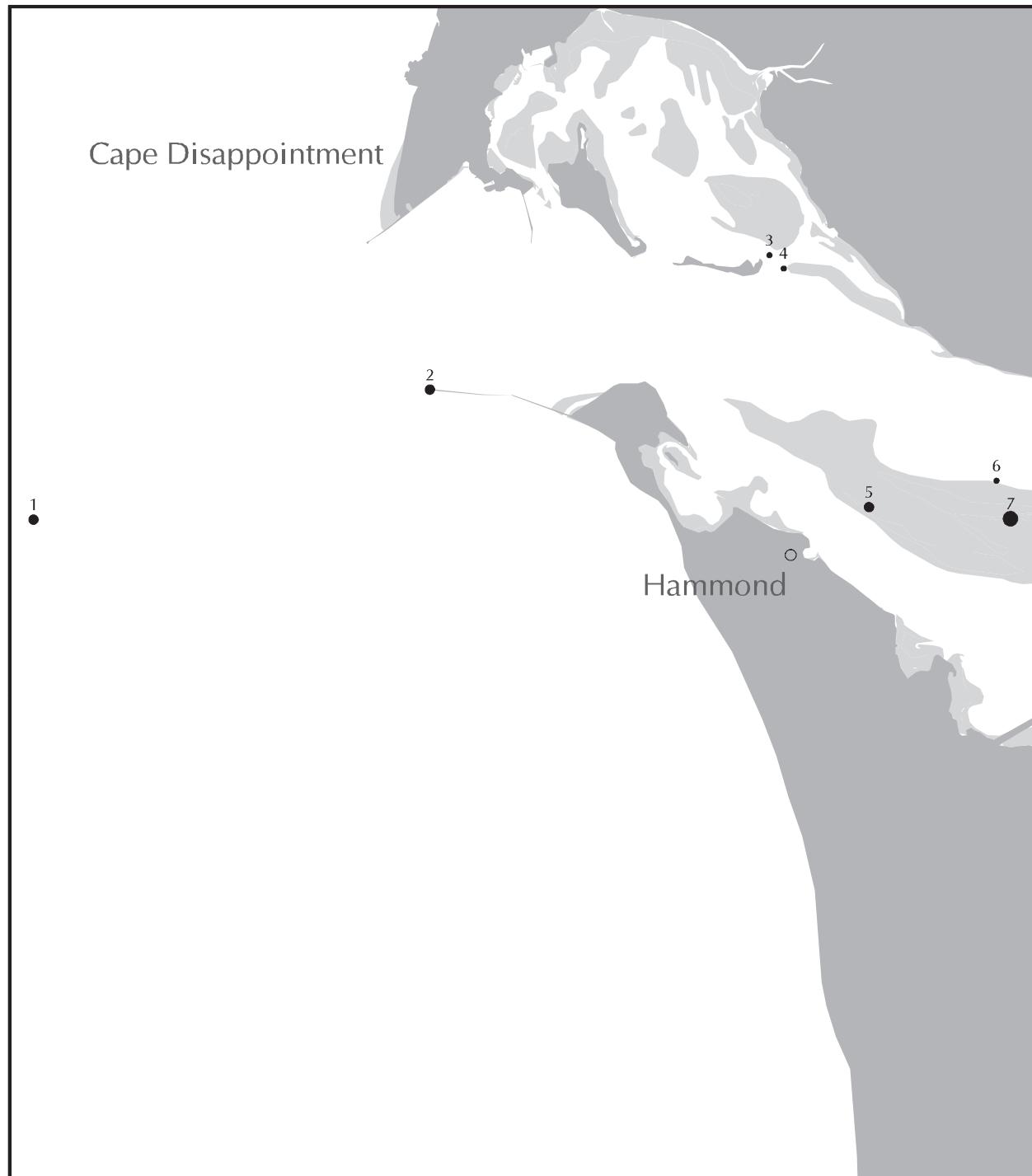


Region 1: Columbia River

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 1 | Offshore navigation bouy (LNB) removed in early 1990's. |
| 2 | Year round on concrete slabs and rock rubble. Abandoned during high ocean swell. |
| 3 | Chinook Channel area. Intermittent use at low tides. |
| 4 | On shoals northwest of entrance channel. Intermittent use at low tides. |
| 5 | Shoal to the west of Astoria/Megler bridge. Alternate site used intermittently. |
| 6 | Shoals west of Astoria/Megler bridge. Alternate site used intermittently on extreme low tides. |
| 7 | Shoals west of Astoria/Megler bridge. Main lower river haulout. |
| 8 | Shoals north of Taylor Sands channel. Used extensively in 1980's. |
| 9 | Intermittent use of shoal area. |
| 10 | Year round on intertidal sand bars. |
| 11 | Year round on intertidal sand bars. |
| 12 | Exposed channels along Sanborn Slough. |
| 13 | Along shoals west of Green Island. Intermittent during pupping season. |
| 14 | Exposed channels north of Green Island during pupping season. Nursery area. |
| 15 | Shoals southwest of Snag Island. |
| 16 | Along northeast side of Snag Island (near line of pilings). |
| 17 | Shoals in lower Woody Island channel. |
| 18 | Along shoals on south side during winter and early spring. |
| 19 | On shoal just downriver from line of range markers during winter and spring. |
| 20 | Along north side of Grassy Island during winter and spring. |
| 21 | On shoal along northeast side of island during winter and spring. |
| 22 | Along edge of unnamed island south of Waterford during spring and winter. |
| 23 | Shoals south of Cooper Point along lower Eureka Channel during spring and winter. |
| 24 | Shoals near confluence with Columbia River during winter and spring. |
| 25 | Log booms anchored along Carroll Channel used intermittently during winter and spring. |
| 26 | Along northwest side of shoal during winter and spring. |
| 27 | Shoals upriver from main shoal area. |
| 28 | Upriver end of Puget Island during winter and spring. |
| 29 | On marina floats and upriver jetty near processing plant from late fall through spring. |

Columbia River

Map 1A: Large Navigation Bouy to Desdemona Sands



Columbia River

Map 1A: Large Navigation Bouy to Desdemona Sands

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|-----------------------|-----------------|------------------|----------------|--|
| 1 | Large Navigation Bouy | 46 12.17 | 124 11.00 | ZC,EJ | Offshore navigation bouy (LNB) removed in early 1990's. |
| 2 | Tip of South Jetty | 46 14.03 | 124 03.94 | EJ,ZC,PV | Year round on concrete slabs and rock rubble. Abandoned during high ocean swell. |
| 3 | Chinook/Baker Bay | 46 15.90 | 123 57.89 | PV | Chinook Channel area. Intermittent use at low tides. |
| 4 | Chinook/Baker Bay | 46 15.74 | 123 57.63 | PV | On shoals northwest of entrance channel. Intermittent use at low tides. |
| 5 | Desdemona Sands | 46 12.80 | 123 55.90 | PV | Shoal to the west of Astoria/Meglerbridge. Alternate site used intermittently. |
| 6 | Desdemona Sands | 46 13.19 | 123 53.61 | PV | Shoals west of Astoria/Megler bridge. Alternate site used intermittently on extreme low tides. |
| 7 | Desdemona Sands | 46 12.73 | 123 53.33 | PV | Shoals west of Astoria/Megler bridge. Main lower river haulout. |



Steller sea lions hauled out on Large Navigation Bouy (LNB), Columbia River, December 16, 1991.

Columbia River

Map 1B: Desdemona Sands to Tenasillahe Island



Columbia River

Map 1B: Desdemona Sands to Tenasillahe Island

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|-------------------------|-----------------|------------------|----------------|--|
| 6 | Desdemona Sands | 4613.19 | 12353.61 | PV | Shoals west of Astoria/Megler bridge. Alternate site used intermittently on extreme low tides. |
| 7 | Desdemona Sands | 4612.73 | 12353.33 | PV | Shoals west of Astoria/Megler bridge. Main lower river haulout. |
| 8 | Taylor Sands | 4614.20 | 12348.40 | PV | Shoals north of Taylor Sands channel. Used extensively in 1980's. |
| 9 | Grays Bay | 4616.14 | 12342.42 | PV | Intermittent use of shoal area. |
| 10 | Grays Bay | 4616.71 | 12343.54 | PV | Year round on intertidal sand bars. |
| 11 | Grays Bay | 4616.50 | 12343.54 | PV | Year round on intertidal sand bars. |
| 12 | Cathlamet Bay | 4612.31 | 12339.56 | PV | Exposed channels along Sanborn Slough. |
| 13 | Cathlamet Bay | 4612.99 | 12341.74 | PV | Along shoals west of Green Island. Intermittent during pupping season. |
| 14 | Cathlamet Bay | 4612.86 | 12340.50 | PV | Exposed channels north of Green Island during pupping season. Nursery area. |
| 15 | Lower Woody/Snag Island | 4613.40 | 12337.55 | PV | Shoals southwest of Snag Island. |
| 16 | Lower Woody/Snag Island | 4613.95 | 12337.10 | PV | Along northeast side of Snag Island (near line of pilings). |
| 17 | Lower Woody/Snag Island | 4613.92 | 12336.59 | PV | Shoals in lower Woody Island channel. |
| 18 | South of Miller Sands | 4613.87 | 12338.84 | PV | Along shoals on south side during winter and early spring. |
| 19 | Three Tree Point Area | 4615.77 | 12330.85 | PV | On shoal just downriver from line of range markers during winter and spring. |
| 20 | Three Tree Point Area | 4615.28 | 12330.79 | PV | Along north side of Grassy Island during winter and spring. |
| 21 | NE of Welch Island | 4614.99 | 12327.03 | PV | On shoal along northeast side of island during winter and spring. |
| 26 | Tongue Point Sands | 4613.88 | 12345.86 | PV | Along northwest side of shoal during winter and spring. |
| 27 | Tongue Point Sands | 4614.08 | 12345.16 | PV | Shoals upriver from main shoal area. |
| 29 | Astoria/E Mooring Basin | 4611.80 | 12347.95 | ZC | On marina floats and upriver jetty near processing plant from late fall through spring. |



Harbor seals hauled out on intertidal shoal in Grays Bay, Columbia River, May 7, 1996.

Columbia River

Map 1C: Puget Island to Cowlitz River Mouth



Columbia River

Map 1C: Puget Island to Cowlitz River Mouth

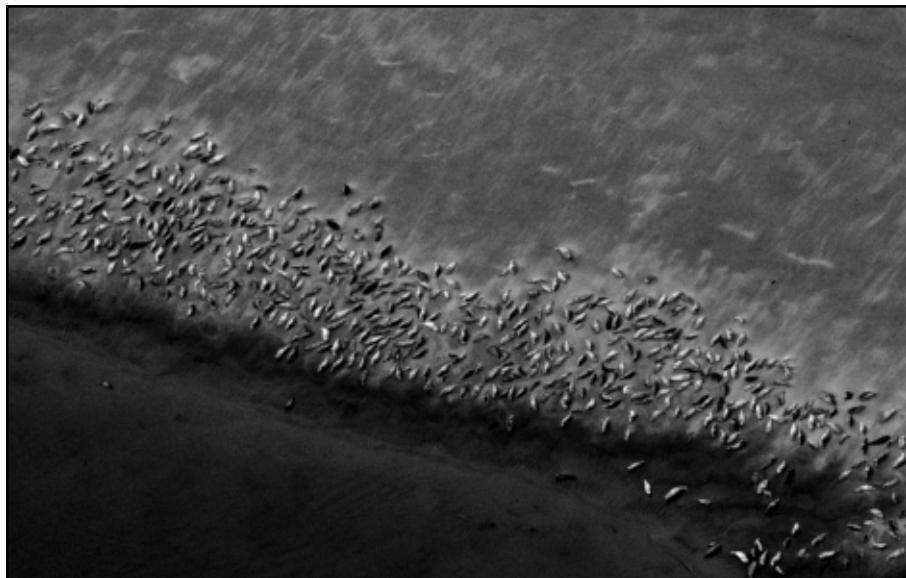
| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|---------------------------|-----------------|------------------|----------------|--|
| 22 | Wallace Island/Eureka Bar | 4608.74 | 123 16.04 | PV | Along edge of unnamed island south of Waterford during spring and winter. |
| 23 | Wallace Island/Eureka Bar | 4608.91 | 123 15.26 | PV | Shoals south of Cooper Point along lower Eureka Channel during spring and winter. |
| 24 | Cowlitz R/Carroll Slough | 4605.98 | 122 54.34 | PV,ZC | Shoals near confluence with Columbia River during winter and spring. |
| 25 | Cowlitz R/Carroll Slough | 4605.53 | 122 53.66 | ZC | Log booms anchored along Carroll Channel used intermittently during winter and spring. |
| 28 | E Puget Island | 4608.95 | 123 18.76 | PV | Upriver end of Puget Island during winter and spring. |



Region 2: Willapa Bay

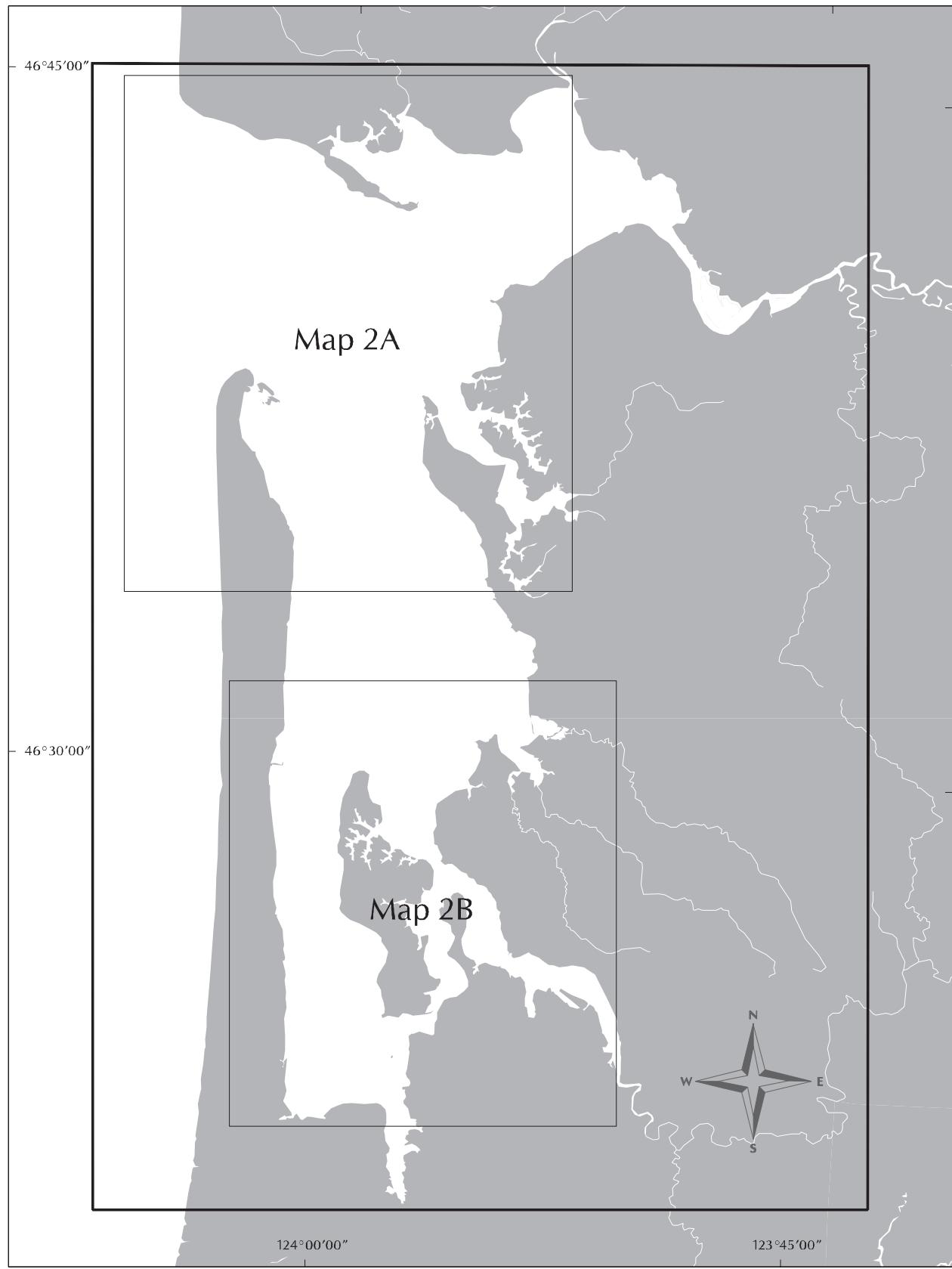
Use NOAA Charts 18504 (Willapa Bay) for navigation and bathymetry details.

Numerous harbor seal haulout sites are located on intertidal mudflats and sand bars throughout Willapa Bay. Nursery areas are located in the areas around Pine Island Channel, Ellen Sands, Shoalwater Bay, and northeast of Long Island. Peak harbor seal abundances occur during the pupping season (mid-April through June) and annual molt (July through August). Small numbers of California sea lions may be found seasonally in Willapa Bay.



Harbor seals hauled out on intertidal shoal off Leadbetter Point, Willapa Bay, June 4, 1996.

Willapa Bay Region 2



Region 2: Willapa Bay

| <u>ID</u> | <u>Location</u> | <u>Survey Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|--------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 30 | W Shoalwater Bay | 02.01 | 4624.45 | 12400.05 | PV | <100 | LOW |
| 31 | W Shoalwater Bay | 02.01 | 4624.54 | 12400.18 | PV | <100 | LOW |
| 32 | Shoalwater Bay Middle | 02.02 | 4624.34 | 12359.32 | PV | <100 | LOW |
| 33 | SW of Long Island | 02.03 | 4625.64 | 12358.87 | PV | <100 | LOW |
| 34 | NE of Long Island South | 02.04 | 4629.24 | 12356.83 | PV | 100-500 | LOW |
| 35 | NE of Long Island Middle | 02.05 | 4629.76 | 12357.38 | PV | <100 | LOW |
| 36 | NE of Long Island North | 02.06 | 4630.79 | 12357.11 | PV | <100 | LOW |
| 37 | NE of Long Island North | 02.06 | 4631.32 | 12356.89 | PV | <100 | LOW |
| 38 | Riddle Spit Area | 02.07 | 4634.94 | 12400.60 | PV | <100 | LOW |
| 39 | S of Grassy Island | 02.08 | 4637.06 | 12401.38 | PV | <100 | LOW |
| 40 | Ellen Sands | 02.09 | 4638.72 | 12358.10 | PV | <100 | LOW |
| 41 | Ellen Sands | 02.09 | 4639.11 | 12359.23 | PV | <100 | LOW |
| 42 | Ellen Sands | 02.09 | 4639.74 | 12359.27 | PV | <100 | LOW |
| 43 | Ellen Sands | 02.09 | 4640.58 | 12359.05 | PV | <100 | LOW |
| 44 | Pine Island Channel | 02.10 | 4640.98 | 12357.64 | PV | 100-500 | LOW |
| 45 | Pine Island Channel | 02.10 | 4640.74 | 12357.67 | PV | 100-500 | LOW |
| 46 | Pine Island Channel | 02.10 | 4640.15 | 12356.95 | PV | 100-500 | LOW |
| 47 | E of Toke Point | 02.11 | 4642.63 | 12355.90 | PV | <100 | LOW |
| 48 | Entrance Shoals | 02.12 | 4642.71 | 12403.04 | PV | 100-500 | LOW |
| 49 | Entrance Shoals | 02.12 | 4641.71 | 12402.00 | PV | 100-500 | LOW |
| 50 | Entrance Shoals | 02.12 | 4640.42 | 12400.74 | PV | 100-500 | LOW |
| 51 | Entrance Shoals | 02.12 | 4641.63 | 12405.73 | PV | <100 | LOW |
| 52 | Entrance Shoals | 02.12 | 4640.65 | 12406.03 | PV | <100 | LOW |
| 53 | Leadbetter Shoals | 02.13 | 4639.93 | 12403.22 | PV | <100 | LOW |
| 54 | Leadbetter Shoals | 02.13 | 4638.36 | 12400.89 | PV | 100-500 | LOW |
| 55 | Leadbetter Shoals | 02.13 | 4639.83 | 12402.47 | PV | <100 | LOW |
| 56 | Leadbetter Shoals | 02.13 | 4639.42 | 12402.21 | PV | 100-500 | LOW |

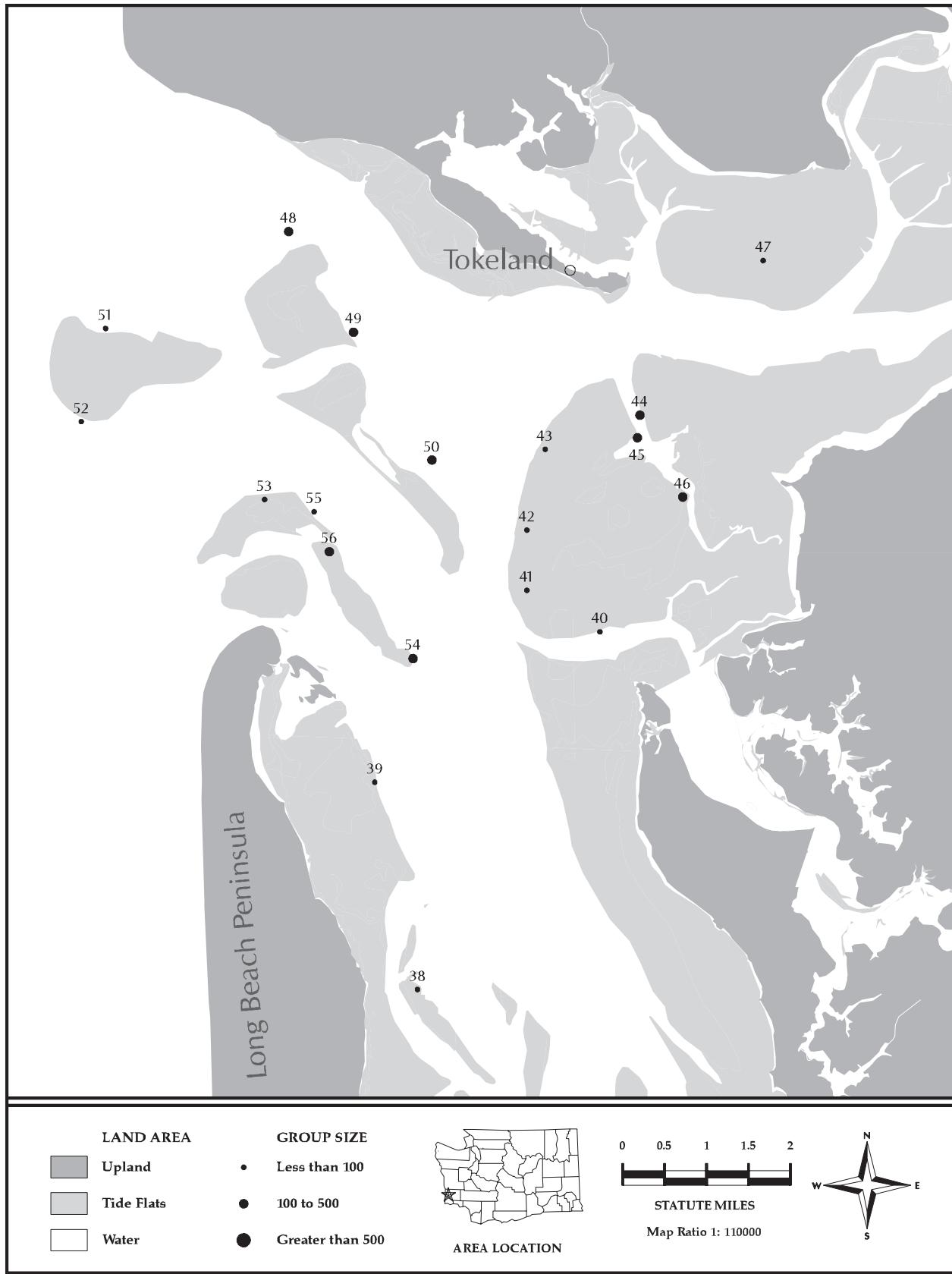
Region 2: Willapa Bay

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 30 | Areas along channels on west side of Shoalwater Bay. |
| 31 | Areas along channels in west Shoalwater Bay during pupping season. |
| 32 | Areas along channels in middle Shoalwater Bay during pupping season. |
| 33 | Areas along channels southwest of Long Island during pupping season. |
| 34 | Areas along south channel. Nursery area. |
| 35 | Areas along the middle channel. |
| 36 | Areas along the north channels during pupping season. |
| 37 | Along the northern most channel with house on pilings during pupping season. |
| 38 | Intertidal areas along edge of shoal. |
| 39 | On shoals south of Grassy Island during pupping season. |
| 40 | Intertidal sand flats along Ellen Sands. Nursery area. |
| 41 | Intertidal sand flats along Ellen Sands. Nursery area. |
| 42 | Intertidal sand flats along Ellen Sands. Nursery area. |
| 43 | Intertidal sand flats along Ellen Sands. Nursery area. |
| 44 | Shoals along Pine Island channel. |
| 45 | Shoals along Pine Island channel. |
| 46 | Shoals along Pine Island channel during pupping season. Nursery area. |
| 47 | Shoals along channels east of Toke Point. |
| 48 | Along north side of main shoal in entrance to Willapa Bay. |
| 49 | Along south side of main shoal in entrance to Willapa Bay. |
| 50 | On southeast shoal in entrance to Willapa Bay. |
| 51 | On southwest shoals in entrance to Willapa Bay during pupping season. |
| 52 | On south shoals in entrance to Willapa Bay during the pupping season. |
| 53 | Along shoals north of Leadbetter Point during pupping season. |
| 54 | Shoals southeast of Leadbetter Point. |
| 55 | Shoals northeast of Leadbetter Point during pupping season. |
| 56 | On shoals east of Leadbetter Point. |



Willapa Bay

Map 2A: Willapa Bay-North



Willapa Bay

Map 2A: Willapa Bay-North

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|---------------------|-----------------|------------------|----------------|---|
| 38 | Riddle Spit Area | 4634.94 | 12400.60 | PV | Intertidal areas along edge of shoal. |
| 39 | S of Grassy Island | 4637.06 | 12401.38 | PV | On shoals south of Grassy Island during pupping season. |
| 40 | Ellen Sands | 4638.72 | 12358.10 | PV | Intertidal sand flats along Ellen Sands. Nursery area. |
| 41 | Ellen Sands | 4639.11 | 12359.23 | PV | Intertidal sand flats along Ellen Sands. Nursery area. |
| 42 | Ellen Sands | 4639.74 | 12359.27 | PV | Intertidal sand flats along Ellen Sands. Nursery area. |
| 43 | Ellen Sands | 4640.58 | 12359.05 | PV | Intertidal sand flats along Ellen Sands. Nursery area. |
| 44 | Pine Island Channel | 4640.98 | 12357.64 | PV | Shoals along Pine Island channel. |
| 45 | Pine Island Channel | 4640.74 | 12357.67 | PV | Shoals along Pine Island channel. |
| 46 | Pine Island Channel | 4640.15 | 12356.95 | PV | Shoals along Pine Island channel during pupping season. Nursery area. |
| 47 | E of Toke Point | 4642.63 | 12355.90 | PV | Shoals along channels east of Toke Point. |
| 48 | Entrance Shoals | 4642.71 | 12403.04 | PV | Along north side of main shoal in entrance to Willapa Bay. |
| 49 | Entrance Shoals | 4641.71 | 12402.00 | PV | Along south side of main shoal in entrance to Willapa Bay. |
| 50 | Entrance Shoals | 4640.42 | 12400.74 | PV | On southeast shoal in entrance to Willapa Bay. |
| 51 | Entrance Shoals | 4641.63 | 12405.73 | PV | On southwest shoals in entrance to Willapa Bay during pupping season. |
| 52 | Entrance Shoals | 4640.65 | 12406.03 | PV | On south shoals in entrance to Willapa Bay during the pupping season. |
| 53 | Leadbetter Shoals | 4639.93 | 12403.22 | PV | Along shoals north of Leadbetter Point during pupping season. |
| 54 | Leadbetter Shoals | 4638.36 | 12400.89 | PV | Shoals southeast of Leadbetter Point. |
| 55 | Leadbetter Shoals | 4639.83 | 12402.47 | PV | Shoals northeast of Leadbetter Point during pupping season. |
| 56 | Leadbetter Shoals | 4639.42 | 12402.21 | PV | On shoals east of Leadbetter Point. |



Willapa Bay

Map 2B: Willapa Bay-South



Willapa Bay

Map 2B: Willapa Bay-South

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|--------------------------|-----------------|------------------|----------------|--|
| 30 | W Shoalwater Bay | 4624.45 | 12400.05 | PV | Areas along channels on west side of Shoalwater Bay. |
| 31 | W Shoalwater Bay | 4624.54 | 12400.18 | PV | Areas along channels in west Shoalwater Bay during pupping season. |
| 32 | Shoalwater Bay Middle | 4624.34 | 12359.32 | PV | Areas along channels in middle Shoalwater Bay during pupping season. |
| 33 | SW of Long Island | 4625.64 | 12358.87 | PV | Areas along channels southwest of Long Island during pupping season. |
| 34 | NE of Long Island South | 4629.24 | 12356.83 | PV | Areas along south channel. Nursery area. |
| 35 | NE of Long Island Middle | 4629.76 | 12357.38 | PV | Areas along the middle channel. |
| 36 | NE of Long Island North | 4630.79 | 12357.11 | PV | Areas along the north channels during pupping season. |
| 37 | NE of Long Island North | 4631.32 | 12356.89 | PV | Along the northern most channel with house on pilings during pupping season. |

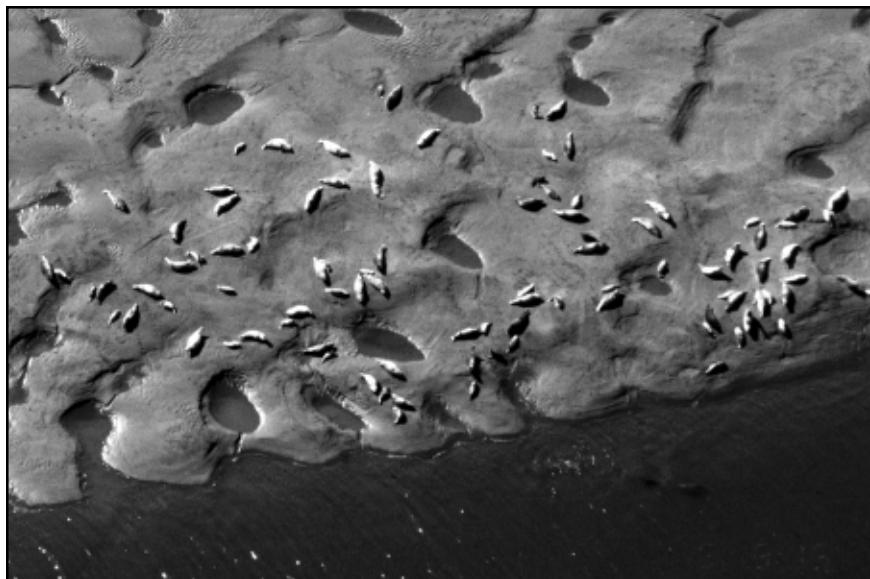


Harbor seals hauled out along channel in Shoalwater Bay, June 4, 1992.

Region 3: Grays Harbor

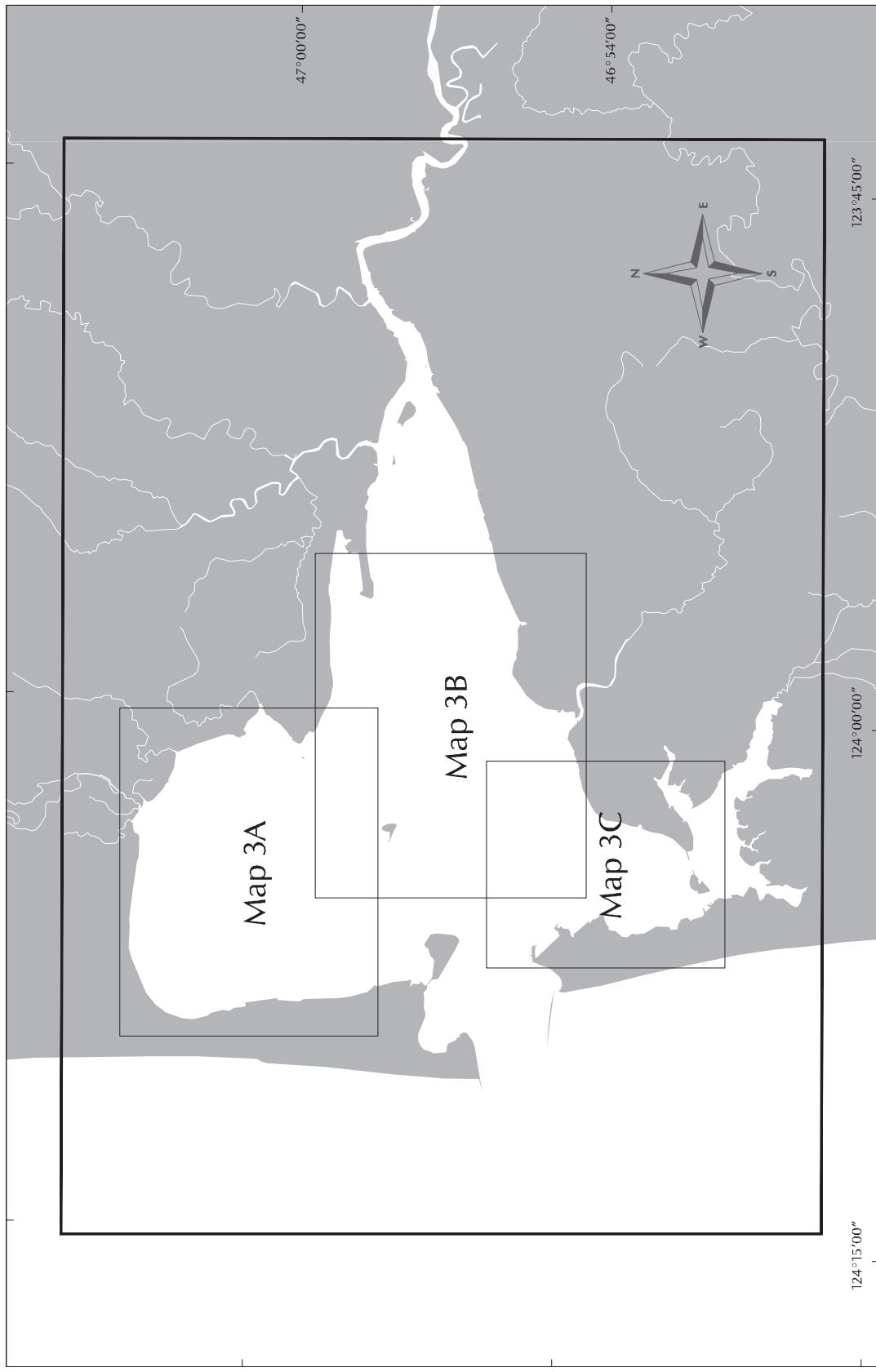
Use NOAA Charts 18502 (Grays Harbor) for navigation and bathymetry details.

Numerous harbor seal haulout sites are located on intertidal mudflats and sand bars throughout Grays Harbor. Nursery areas are located in the areas around Whitcomb Flats, Mid-Harbor Flats, Sand Island shoals, Sand Island, Goose Island, Chenoise Creek channels, and in North Bay. Peak harbor seal abundances occur during the pupping season (mid-April through June) and the annual molt (July through August). Small numbers of California sea lions may be found seasonally in Grays Harbor foraging or on docks in the Westport Marina.



Harbor seals hauled out on intertidal shoal in Grays Harbor, June 5, 1996.

Grays Harbor Region 3



Region 3: Grays Harbor

| ID | Location | Survey Code | Latitude | Longitude | Species | Count | Use |
|-----------|---------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 57 | South Bay | 03.01 | 4652.83 | 12404.08 | PV | <100 | LOW |
| 58 | Whitcomb Flats N | 03.02 | 4654.98 | 12404.64 | PV | 100-500 | LOW |
| 59 | E of Whitcomb Flats | 03.03 | 4655.04 | 12402.27 | PV | <100 | LOW |
| 60 | E of Whitcomb Flats | 03.03 | 4654.81 | 12403.02 | PV | <100 | LOW |
| 61 | E of Whitcomb Flats | 03.03 | 4654.43 | 12402.88 | PV | <100 | LOW |
| 62 | Midharbor Flats | 03.04 | 4656.93 | 12358.42 | PV | <100 | LOW |
| 63 | Midharbor Flats | 03.04 | 4656.32 | 12359.94 | PV | 100-500 | LOW |
| 64 | Midharbor Flats | 03.04 | 4656.11 | 12356.89 | PV | <100 | LOW |
| 65 | Sand Island Shoals | 03.05 | 4657.35 | 12359.81 | PV | 100-500 | LOW |
| 66 | Sand Island Shoals Area | 03.05 | 4657.50 | 12359.92 | PV | 100-500 | LOW |
| 67 | Sand Island Shoals Area | 03.06 | 4656.88 | 12401.13 | PV | <100 | LOW |
| 68 | Sand Island Shoals Area | 03.06 | 4656.91 | 12401.61 | PV | 500> | LOW |
| 69 | Sand Island Shoals Area | 03.07 | 4657.11 | 12402.05 | PV | <100 | LOW |
| 70 | Sand Island Shoals Area | 03.07 | 4657.19 | 12401.42 | PV | <100 | LOW |
| 71 | Sand Island Shoals Area | 03.07 | 4656.71 | 12402.15 | PV | 500> | LOW |
| 72 | Sand Island Shoals Area | 03.07 | 4656.45 | 12402.81 | PV | <100 | LOW |
| 73 | Sand Island Shoals Area | 03.08 | 4657.03 | 12402.42 | PV | <100 | LOW |
| 74 | S Side of Sand Island | 03.09 | 4657.38 | 12402.90 | PV | 100-500 | LOW |
| 75 | S of Sand Island | 03.09 | 4657.58 | 12403.07 | PV | 100-500 | LOW |
| 76 | S Side of Sand Island | 03.09 | 4657.26 | 12403.31 | PV | 100-500 | LOW |
| 77 | S Side of Sand Island | 03.09 | 4658.03 | 12402.09 | PV | <100 | LOW |
| 78 | S Side of Sand Island | 03.09 | 4657.61 | 12403.40 | PV | <100 | LOW |
| 79 | N Side of Sand Island | 03.10 | 4657.82 | 12403.37 | PV | 100-500 | LOW |
| 80 | NW of Sand Island | 03.11 | 4658.01 | 12403.83 | PV | 100-500 | LOW |
| 81 | NW of Sand Island | 03.11 | 4657.68 | 12403.99 | PV | <100 | LOW |
| 82 | S Side of Goose Island | 03.12 | 4658.56 | 12403.85 | PV | 100-500 | LOW |
| 83 | NW End of Goose Island | 03.13 | 4658.91 | 12404.27 | PV | <100 | LOW |
| 84 | East Bay/Chenois Creek | 03.14 | 4659.93 | 12402.78 | PV | <100 | LOW |
| 85 | East Bay/Chenois Creek | 03.14 | 4701.47 | 12402.73 | PV | <100 | LOW |
| 86 | East Bay/Chenois Creek | 03.14 | 4701.39 | 12402.09 | PV | <100 | LOW |
| 87 | East Bay/Chenois Creek | 03.14 | 4700.79 | 12402.06 | PV | <100 | LOW |
| 88 | East Bay/Chenois Creek | 03.14 | 4700.45 | 12402.32 | PV | <100 | LOW |
| 89 | East Bay/Small Channel | 03.15 | 4700.27 | 12402.92 | PV | 100-500 | LOW |
| 90 | East Bay/Main Channel | 03.16 | 4700.78 | 12403.05 | PV | <100 | LOW |
| 91 | Shoals NW of Goose Island | 03.17 | 4659.23 | 12404.66 | PV | <100 | LOW |
| 92 | Shoals NW of Goose Island | 03.17 | 4659.65 | 12405.98 | PV | 100-500 | LOW |
| 93 | Shoals E of Ocean Shores | 03.18 | 4658.09 | 12407.59 | PV | 100-500 | LOW |
| 94 | N of Campbell Slough | 03.19 | 4700.45 | 12405.91 | PV | <100 | LOW |
| 95 | North Bay/West Channel | 03.20 | 4701.15 | 12406.59 | PV | 100-500 | LOW |
| 96 | North Bay/West Channel | 03.20 | 4701.54 | 12407.01 | PV | <100 | LOW |
| 97 | North Bay/West Channel | 03.20 | 4700.82 | 12405.89 | PV | 100-500 | LOW |
| 98 | North Bay/East Channel | 03.21 | 4701.92 | 12405.54 | PV | <100 | LOW |
| 99 | North Bay/East Channel | 03.21 | 4701.55 | 12405.72 | PV | 100-500 | LOW |
| 100 | North Bay/East Channel | 03.21 | 4701.21 | 12405.45 | PV | <100 | LOW |
| 101 | North Bay/NW Channel | 03.22 | 4701.36 | 12408.17 | PV | <100 | LOW |



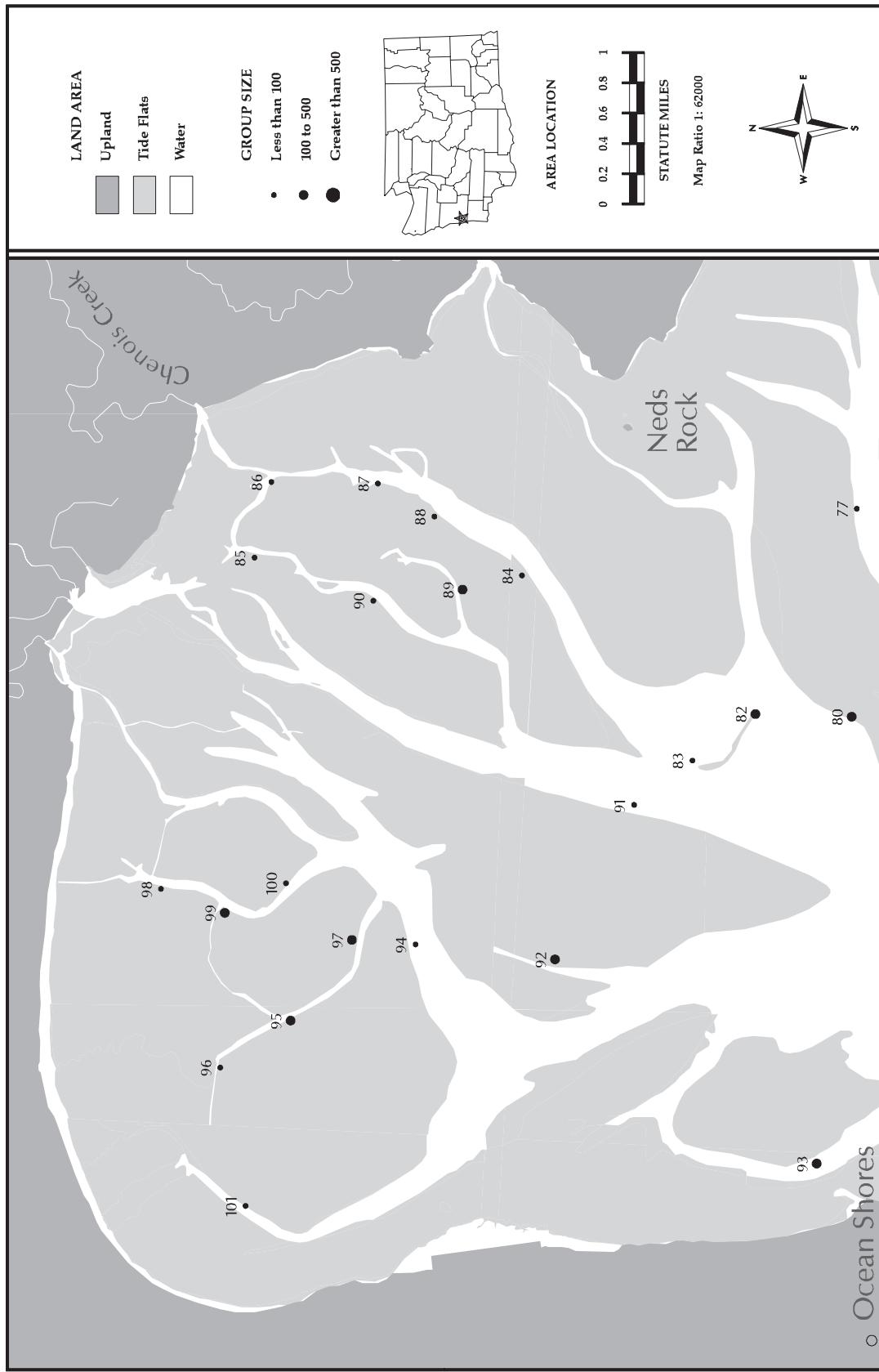
Region 3: Grays Harbor

| <u>ID</u> | <u>Description</u> |
|-----------|---|
| 57 | Along intertidal channels on east side of bay. |
| 58 | Along north side of Whitcomb Flats. |
| 59 | Along south side of shoal east of Whitcomb Flats during pupping season. |
| 60 | Along south side of shoal east of Whitcomb Flats during pupping season. |
| 61 | On shoal southeast of Whitcomb Flats. |
| 62 | On shoals on north side of midharbor flats during pupping season. |
| 63 | On shoals on northwest side of midharbor flats during pupping season. Nursery area. |
| 64 | Shoals along south side of midharbor flats during pupping season. |
| 65 | On east side of shoal near rangefinders during pupping season. Nursery area. |
| 66 | On north side of shoal near rangefinders during pupping season. |
| 67 | On south side of south shoal during pupping season. |
| 68 | On north side of south shoal. |
| 69 | On north side of middle shoal during pupping season. |
| 70 | Along southeast side of middle shoal during pupping season. |
| 71 | Along south side of middle shoal. |
| 72 | Along southwest side of middle shoal during pupping season. |
| 73 | On south side of the north shoal during pupping season. |
| 74 | Shoals across channel on south side of island. Nursery area. |
| 75 | Along channel on south side of island. Nursery area. |
| 76 | Along channel on south side of island. Nursery area. |
| 77 | Along channel on south side of island. Nursery area. |
| 78 | Along channel on south side of island. Nursery area. |
| 79 | Along channel on north side of island. Nursery area. |
| 80 | On northwest tip of Sand Island. |
| 81 | Shoals west of Sand Island during pupping season. |
| 82 | Along channel on the south side of Goose Island. Nursery area. |
| 83 | Northwest tip of Goose Island during pupping season. |
| 84 | Along Chenois Creek channel during pupping season. |
| 85 | Along Chenois Creek channel during pupping season. |
| 86 | Along Chenois Creek channel during pupping season. |
| 87 | Along Chenois Creek channel during pupping season. |
| 88 | Along Chenois Creek channel during pupping season. |
| 89 | Along small deadend channel in East Bay. Nursery area. |
| 90 | Along main channel in East Bay during pupping season. |
| 91 | Along channel in shoals northwest of Goose Island during pupping season. |
| 92 | Along channel in shoal northwest of Goose Island. |
| 93 | Shoals along channel east of Oyehut/Ocean Shores. Nursery area. |
| 94 | Mud flats along Campbell Slough during pupping season. |
| 95 | Mud flats along the west channel into North Bay. Nursery area. |
| 96 | Mud flats along the west channel into North Bay. Nursery area. |
| 97 | Mud flats along the west channel into North Bay. Nursery area. |
| 98 | Mud flats along the east channel into North Bay. Nursery area. |
| 99 | Mud flats along the east channel into North Bay. |
| 100 | Mud flats along the east channel into North Bay. Nursery area. |
| 101 | Mud flats along the northwest most channel into North Bay during pupping season. |



Grays Harbor

Map 3A: Grays Harbor-North



Grays Harbor
Map 3A: Grays Harbor-North

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|--|
| 77 | S Side of Sand Island | 4658.03 | 12402.09 | PV | Along channel on south side of island. Nursery area. |
| 80 | NW of Sand Island | 4658.01 | 12403.83 | PV | On northwest tip of Sand Island. |
| 82 | S Side of Goose Island | 4658.56 | 12403.85 | PV | Along channel on the south side of Goose Island. Nursery area. |
| 83 | NW End of Goose Island | 4658.91 | 12404.27 | PV | Northwest tip of Goose Island during pupping season. |
| 84 | East Bay/Chenois Creek | 4659.93 | 12402.78 | PV | Along Chenois Creek channel during pupping season. |
| 85 | East Bay/Chenois Creek | 4701.47 | 12402.73 | PV | Along Chenois Creek channel during pupping season. |
| 86 | East Bay/Chenois Creek | 4701.39 | 12402.09 | PV | Along Chenois Creek channel during pupping season. |
| 87 | East Bay/Chenois Creek | 4700.79 | 12402.06 | PV | Along Chenois Creek channel during pupping season. |
| 88 | East Bay/Chenois Creek | 4700.45 | 12402.32 | PV | Along Chenois Creek channel during pupping season. |
| 89 | East Bay/Small Channel | 4700.27 | 12402.92 | PV | Along small deadend channel in East Bay. Nursery area. |
| 90 | East Bay/Main Channel | 4700.78 | 12403.05 | PV | Along main channel in East Bay during pupping season. |
| 91 | Shoals NW of Goose Island | 4659.23 | 12404.66 | PV | Along channel in shoals northwest of Goose Island during pupping season. |
| 92 | Shoals NW of Goose Island | 4659.65 | 12405.98 | PV | Along channel in shoal northwest of Goose Island. |
| 93 | Shoals E of Ocean Shores | 4658.09 | 12407.59 | PV | Shoals along channel east of Oyehut/Ocean Shores. Nursery area. |
| 94 | N of Campbell Slough | 4700.45 | 12405.91 | PV | Mud flats along Campbell Slough during pupping season. |
| 95 | North Bay/West Channel | 4701.15 | 12406.59 | PV | Mud flats along the west channel into North Bay. Nursery area. |
| 96 | North Bay/West Channel | 4701.54 | 12407.01 | PV | Mud flats along the west channel into North Bay. Nursery area. |
| 97 | North Bay/West Channel | 4700.82 | 12405.89 | PV | Mud flats along the west channel into North Bay. Nursery area. |
| 98 | North Bay/East Channel | 4701.92 | 12405.54 | PV | Mud flats along the east channel into North Bay. Nursery area. |
| 99 | North Bay/East Channel | 4701.55 | 12405.72 | PV | Mud flats along the east channel into North Bay. |
| 100 | North Bay/East Channel | 4701.21 | 12405.45 | PV | Mud flats along the east channel into North Bay. Nursery area. |
| 101 | North Bay/NW Channel | 4701.36 | 12408.17 | PV | Mud flats along the northwest most channel into North Bay during pupping season. |



Grays Harbor

Map 3B: Grays Harbor-Central



Grays Harbor

Map 3B: Grays Harbor-Central

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|-------------------------|-----------------|------------------|----------------|---|
| 58 | Whitcomb Flats N | 4654.98 | 12404.64 | PV | Along north side of Whitcomb Flats. |
| 59 | E of Whitcomb Flats | 4655.04 | 12402.27 | PV | Along south side of shoal east of Whitcomb Flats during pupping season. |
| 60 | E of Whitcomb Flats | 4654.81 | 12403.02 | PV | Along south side of shoal east of Whitcomb Flats during pupping season. |
| 61 | E of Whitcomb Flats | 4654.43 | 12402.88 | PV | On shoal southeast of Whitcomb Flats. |
| 62 | Midharbor Flats | 4656.93 | 12358.42 | PV | On shoals on north side of midharbor flats during pupping season. |
| 63 | Midharbor Flats | 4656.32 | 12359.94 | PV | On shoals on northwest side of midharbor flats during pupping season. Nursery area. |
| 64 | Midharbor Flats | 4656.11 | 12356.89 | PV | Shoals along south side of midharbor flats during pupping season. |
| 65 | Sand Island Shoals | 4657.35 | 12359.81 | PV | On east side of shoal near rangefinders during pupping season. Nursery area. |
| 66 | Sand Island Shoals Area | 4657.50 | 12359.92 | PV | On north side of shoal near rangefinders during pupping season. |
| 67 | Sand Island Shoals Area | 4656.88 | 12401.13 | PV | On south side of south shoal during pupping season. |
| 68 | Sand Island Shoals Area | 4656.91 | 12401.61 | PV | On north side of south shoal. |
| 69 | Sand Island Shoals Area | 4657.11 | 12402.05 | PV | On north side of middle shoal during pupping season. |
| 70 | Sand Island Shoals Area | 4657.19 | 12401.42 | PV | Along southeast side of middle shoal during pupping season. |
| 71 | Sand Island Shoals Area | 4656.71 | 12402.15 | PV | Along south side of middle shoal. |
| 72 | Sand Island Shoals Area | 4656.45 | 12402.81 | PV | Along southwest side of middle shoal during pupping season. |
| 73 | Sand Island Shoals Area | 4657.03 | 12402.42 | PV | On south side of the north shoal during pupping season. |
| 74 | S Side of Sand Island | 4657.38 | 12402.90 | PV | Shoals across channel on south side of island. Nursery area. |
| 75 | S of Sand Island | 4657.58 | 12403.07 | PV | Along channel on south side of island. Nursery area. |
| 76 | S Side of Sand Island | 4657.26 | 12403.31 | PV | Along channel on south side of island. Nursery area. |
| 77 | S Side of Sand Island | 4658.03 | 12402.09 | PV | Along channel on south side of island. Nursery area. |
| 78 | S Side of Sand Island | 4657.61 | 12403.40 | PV | Along channel on south side of island. Nursery area. |
| 79 | N Side of Sand Island | 4657.82 | 12403.37 | PV | Along channel on north side of island. Nursery area. |
| 80 | NW of Sand Island | 4658.01 | 12403.83 | PV | On northwest tip of Sand Island. |
| 81 | NW of Sand Island | 4657.68 | 12403.99 | PV | Shoals west of Sand Island during pupping season. |
| 82 | S Side of Goose Island | 4658.56 | 12403.85 | PV | Along channel on the south side of Goose Island. Nursery area. |
| 83 | NW End of Goose Island | 4658.91 | 12404.27 | PV | Northwest tip of Goose Island during pupping season. |



Grays Harbor

Map 3C: Grays Harbor-South



LAND AREA



Upland



Tide Flats



Water

GROUP SIZE

• Less than 100

● 100 to 500

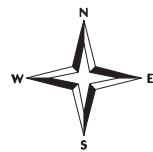
● Greater than 500



AREA LOCATION



Map Ratio 1: 45000



Grays Harbor

Map 3C: Grays Harbor-South

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|---------------------|-----------------|------------------|----------------|---|
| 57 | South Bay | 4652.83 | 12404.08 | PV | Along intertidal channels on east side of bay. |
| 58 | Whitcomb Flats N | 4654.98 | 12404.64 | PV | Along north side of Whitcomb Flats. |
| 59 | E of Whitcomb Flats | 4655.04 | 12402.27 | PV | Along south side of shoal east of Whitcomb Flats during pupping season. |
| 60 | E of Whitcomb Flats | 4654.81 | 12403.02 | PV | Along south side of shoal east of Whitcomb Flats during pupping season. |
| 61 | E of Whitcomb Flats | 4654.43 | 12402.88 | PV | On shoal southeast of Whitcomb Flats. |



Harbor seals on beach on north side of Whitcomb Flats, June 4, 1992.

Region 4: Olympic Coast-South

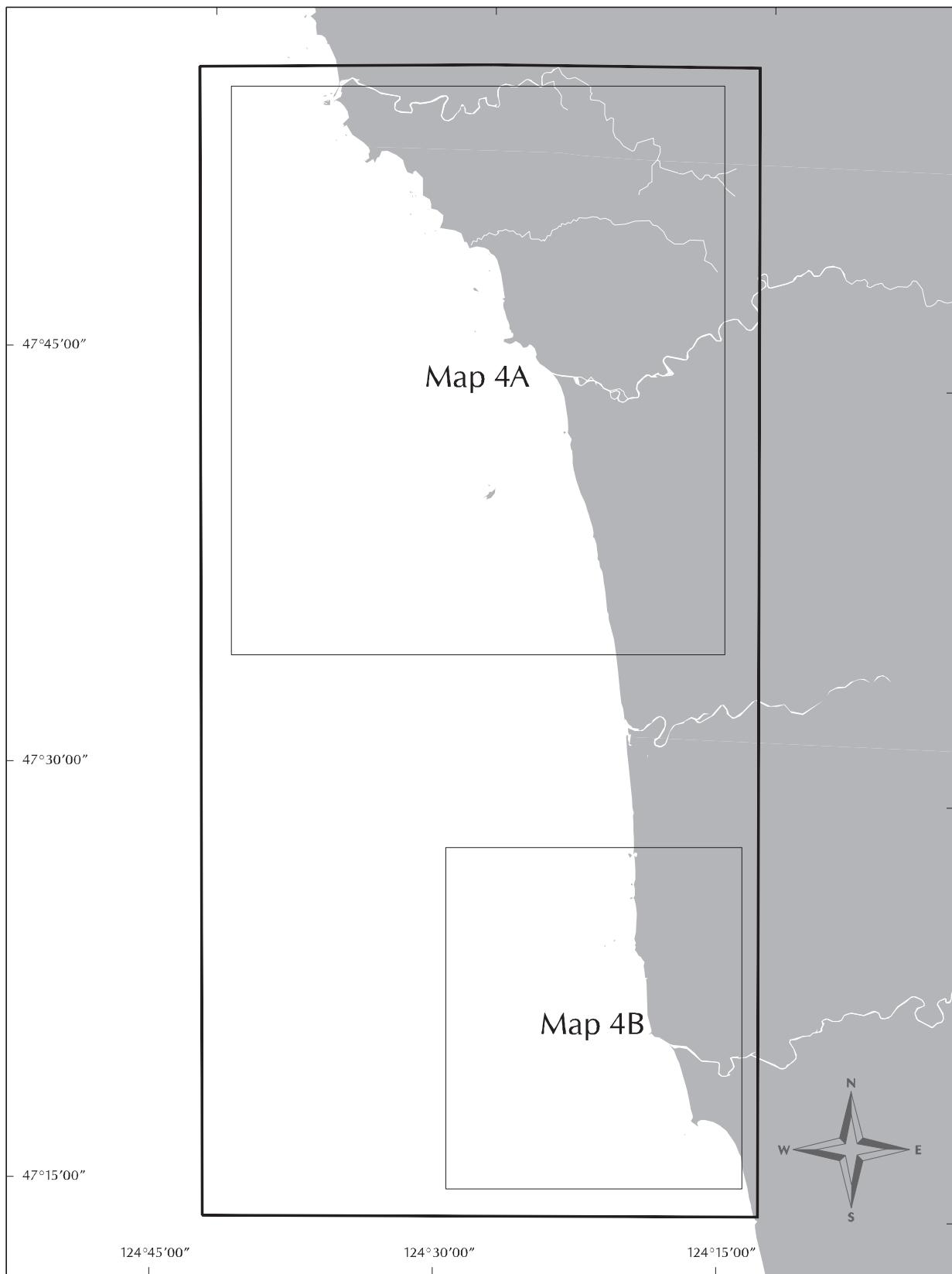
Use NOAA Charts 18500 (Columbia River to Destruction Island) and 18480 (Approaches to Strait of Juan de Fuca-Destruction Island to Amphitrite Point) for navigation and bathymetry details.

Numerous harbor seal haulout sites are located on intertidal rocks and reefs in this region. Peak abundances of harbor seals occur during the pupping season (June through early August) and annual molt (mid-August through September). Large numbers of Steller sea lions use a number of offshore rocks in the vicinity of Split Rock seasonally. Small numbers of California sea lions may also be found at these same sites.



Harbor seals resting on cobble beach on east end of Destruction Island, November 18, 1997.

Olympic Coast-South Region 4: Quillayute River to Point Grenville



Region 4: Olympic Coast-South

| <u>ID</u> | <u>Location</u> | <u>Survey Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|---------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 102 | Cape Elizabeth | 04.01 | 4721.32 | 124 19.19 | PV | 100-500 | LOW |
| 103 | S of Split Rock | 04.02 | 4723.99 | 124 21.58 | EJ,ZC | 100-500 | ALL |
| 104 | Split Rock Area | 04.03 | 4724.39 | 124 21.76 | EJ,ZC | 100-500 | ALL |
| 105 | Split Rock Area | 04.03 | 4724.44 | 124 21.50 | EJ | <100 | ALL |
| 106 | Split Rock Area | 04.03 | 4724.32 | 124 21.47 | EJ | <100 | ALL |
| 107 | Sea Lion Rock | 04.04 | 4727.00 | 124 24.20 | PV | <100 | LOW |
| 108 | Destruction Island/W End | 04.05 | 4740.35 | 124 29.30 | PV | <100 | LOW |
| 109 | Destruction Island/NE End | 04.06 | 4740.73 | 124 28.76 | PV,MA | 100-500 | LOW |
| 110 | Islet N of Hoh River | 04.07 | 4745.23 | 124 27.24 | PV | 100-500 | LOW |
| 111 | Alexander Island | 04.08 | 4747.90 | 124 30.23 | PV | <100 | LOW |
| 112 | Goodman Creek Area | 04.09 | 4749.24 | 124 30.66 | PV | 100-500 | LOW |
| 113 | S of Toleak Point | 04.10 | 4749.64 | 124 32.15 | PV | 100-500 | LOW |
| 114 | Toleak Point | 04.11 | 4749.96 | 124 32.60 | PV | 100-500 | LOW |
| 115 | N of Toleak Point | 04.12 | 4750.24 | 124 32.65 | PV | <100 | LOW |
| 116 | Strawberry Point | 04.13 | 4750.70 | 124 33.30 | PV | 100-500 | LOW |
| 117 | Giants Graveyard | 04.14 | 4751.18 | 124 34.00 | PV | 100-500 | LOW |
| 118 | Giants Graveyard | 04.14 | 4751.01 | 124 33.76 | PV | 100-500 | LOW |
| 119 | NE of Giants Graveyard | 04.15 | 4751.61 | 124 33.74 | PV | <100 | LOW |
| 120 | S Side Teawhit Head | 04.16 | 4752.26 | 124 36.37 | PV | <100 | LOW |
| 121 | Quillayute Needles | 04.17 | 4753.02 | 124 38.08 | PV | 100-500 | LOW |
| 122 | Point Grenville | 04.18 | 4718.09 | 124 16.55 | PV | <100 | LOW |
| 123 | Kalaloch Rocks | 04.20 | 4736.11 | 124 22.71 | PV | <100 | LOW |
| 124 | Perkins Reef Area | 04.21 | 4746.79 | 124 29.63 | PV | <100 | LOW |
| 125 | Flat Rock | 04.22 | 4722.68 | 124 20.72 | PV | <100 | LOW |
| 126 | Willoughby Rock | 04.23 | 4724.64 | 124 21.20 | PV | <100 | LOW |



Harbor seals hauled out on rocks north of Hoh River, April 22, 1977.

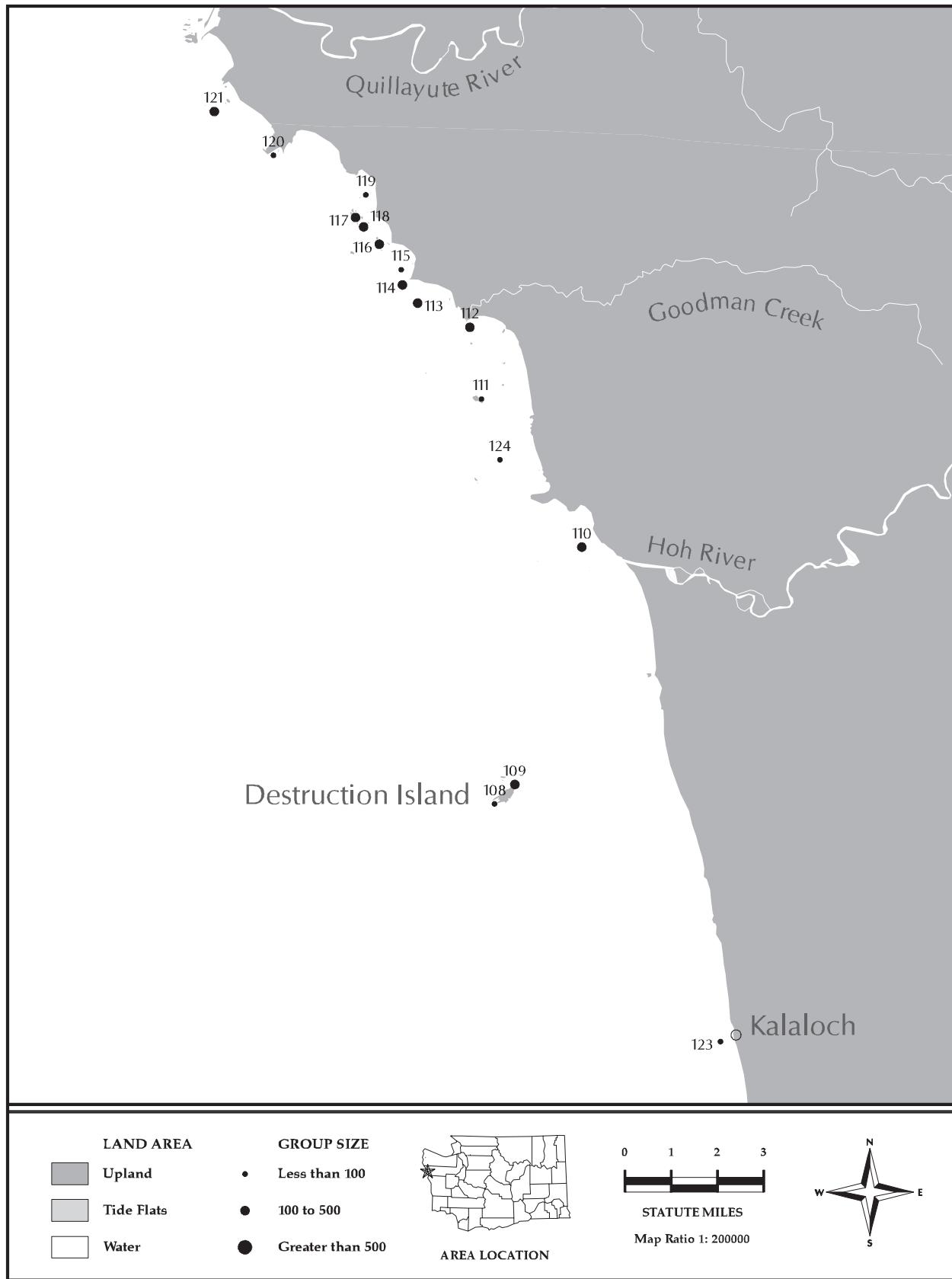
Region 4: Olympic Coast-South

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 102 | Intertidal reef areas off Cape Elizabeth. |
| 103 | Unnamed rock (USFWS ID 535) south of Spit Rock. |
| 104 | Along the west and south sides of Split Rock. |
| 105 | Small intertidal rock (USFWS ID 533) to east of Split Rock. |
| 106 | Small intertidal rock (USFWS ID 534) to east of Split Rock. |
| 107 | Sea Lion Rock (USFWS ID 502) about 3 miles northwest of Split Rock. |
| 108 | Along intertidal channel and reef areas on west end of island. |
| 109 | On intertidal reefs and main beach area on the northeast end of island. MA's in winter and spring. |
| 110 | On intertidal reefs just north of the Hoh River. |
| 111 | Intertidal areas along the east side of Alexander Island. |
| 112 | Intertidal rocks on south side of Goodman Creek. |
| 113 | Intertidal reef area south of Toleak Point. |
| 114 | Intertidal reef areas at Toleak Point. |
| 115 | Intertidal reefs and rocks in bay north of Toleak Point. Nursery area. |
| 116 | Intertidal areas at Strawberry Point. |
| 117 | Intertidal areas at Giants Graveyard. Nursery area. |
| 118 | Intertidal areas at Giants Graveyard. Nursery area. |
| 119 | Intertidal areas northeast of Giants Graveyard during pupping season. |
| 120 | Intertidal reef areas along the south side of Teawhit Head. |
| 121 | Intertidal areas on west side of Quillayute Needles. |
| 122 | Intertidal areas at Point Grenville. Intermittent use. |
| 123 | Intertidal reef area at Kalaloch Rocks. Intermittent use. |
| 124 | Reef areas inshore from Perkins Reef. Intermittent use. |
| 125 | Flat Rock (USFWS ID 539). Intermittent use. |
| 126 | South side of Willoughby Rock on intertidal rocks and reefs. |



Olympic Coast-South

Map 4A: Quillayute River to Kalaloch

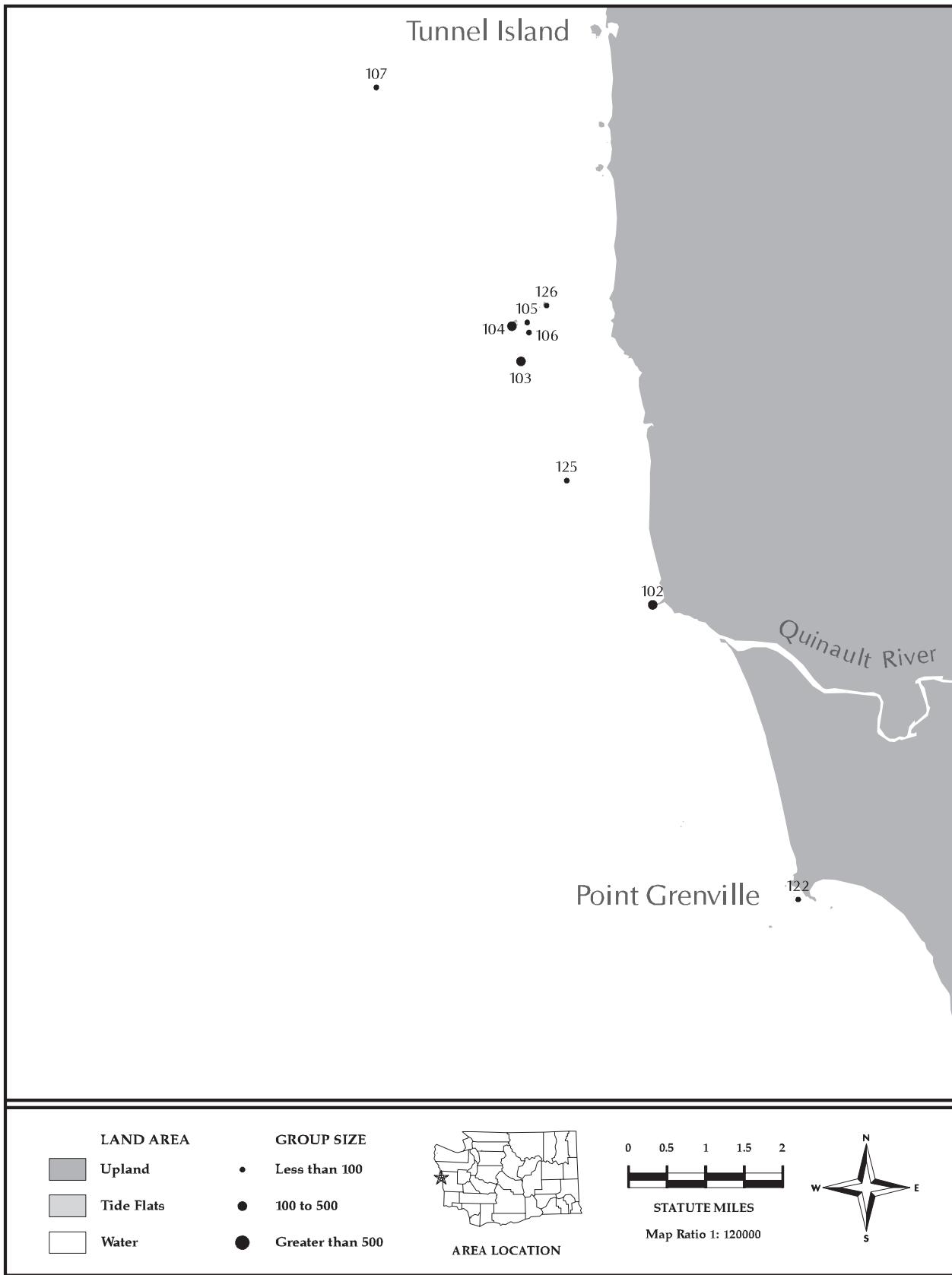


Olympic Coast-South
Map 4A: Quillayute River to Kalaloch

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|--|
| 108 | Destruction Island/W End | 4740.35 | 12429.30 | PV | Along intertidal channel and reef areas on west end of island. |
| 109 | Destruction Island/NE End | 4740.73 | 12428.76 | PV,MA | On intertidal reefs and main beach area on the northeast end of island. MA's in winter and spring. |
| 110 | Islet N of Hoh River | 4745.23 | 12427.24 | PV | On intertidal reefs just north of the Hoh River. |
| 111 | Alexander Island | 4747.90 | 12430.23 | PV | Intertidal areas along the east side of Alexander Island. |
| 112 | Goodman Creek Area | 4749.24 | 12430.66 | PV | Intertidal rocks on south side of Goodman Creek. |
| 113 | S of Toleak Point | 4749.64 | 12432.15 | PV | Intertidal reef area south of Toleak Point. |
| 114 | Toleak Point | 4749.96 | 12432.60 | PV | Intertidal reef areas at Toleak Point. |
| 115 | N of Toleak Point | 4750.24 | 12432.65 | PV | Intertidal reefs and rocks in bay north of Toleak Point. Nursery area. |
| 116 | Strawberry Point | 4750.70 | 12433.30 | PV | Intertidal areas at Strawberry Point. |
| 117 | Giants Graveyard | 4751.18 | 12434.00 | PV | Intertidal areas at Giants Graveyard. Nursery area. |
| 118 | Giants Graveyard | 4751.01 | 12433.76 | PV | Intertidal areas at Giants Graveyard. Nursery area. |
| 119 | NE of Giants Graveyard | 4751.61 | 12433.74 | PV | Intertidal areas northeast of Giants Graveyard during pupping season. |
| 120 | S Side Teawhit Head | 4752.26 | 12436.37 | PV | Intertidal reef areas along the south side of Teawhit Head. |
| 121 | Quillayute Needles | 4753.02 | 12438.08 | PV | Intertidal areas on west side of Quillayute Needles. |
| 123 | Kalaloch Rocks | 4736.11 | 12422.71 | PV | Intertidal reef area at Kalaloch Rocks. Intermittent use. |
| 124 | Perkins Reef Area | 4746.79 | 12429.63 | PV | Reef areas inshore from Perkins Reef. Intermittent use. |

Olympic Coast-South

Map 4B: Tunnel Island to Point Grenville



Olympic Coast-South

Map 4B: Tunnel Island to Point Grenville

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|-----------------|-----------------|------------------|----------------|---|
| 102 | Cape Elizabeth | 4721.32 | 12419.19 | PV | Intertidal reef areas off Cape Elizabeth. |
| 103 | S of Split Rock | 4723.99 | 12421.58 | EJ,ZC | Unnamed rock (USFWS ID 535) south of Spit Rock. |
| 104 | Split Rock Area | 4724.39 | 12421.76 | EJ,ZC | Along the west and south sides of Split Rock. |
| 105 | Split Rock Area | 4724.44 | 12421.50 | EJ | Small intertidal rock (USFWS ID 533) to east of Split Rock. |
| 106 | Split Rock Area | 4724.32 | 12421.47 | EJ | Small intertidal rock (USFWS ID 534) to east of Split Rock. |
| 107 | Sea Lion Rock | 4727.00 | 12424.20 | PV | Sea Lion Rock (USFWS ID 502) about 3 miles northwest of Split Rock. |
| 122 | Point Grenville | 4718.09 | 12416.55 | PV | Intertidal areas at Point Grenville. Intermittent use. |
| 125 | Flat Rock | 4722.68 | 12420.72 | PV | Flat Rock (USFWS ID 539). Intermittent use. |
| 126 | Willoughby Rock | 4724.64 | 12421.20 | PV | South side of Willoughby Rock on intertidal rocks and reefs. |



Steller sea lions on unnamed rock (USFWS ID 535) just south of Split Rock, August 2, 1978.

Region 5: Olympic Coast-North

Use NOAA Charts 18480 (Approaches to Strait of Juan de Fuca-Destruction Island to Amphitrite Point) and 18460 (Strait of Juan de Fuca Entrance) for navigation and bathymetry details.

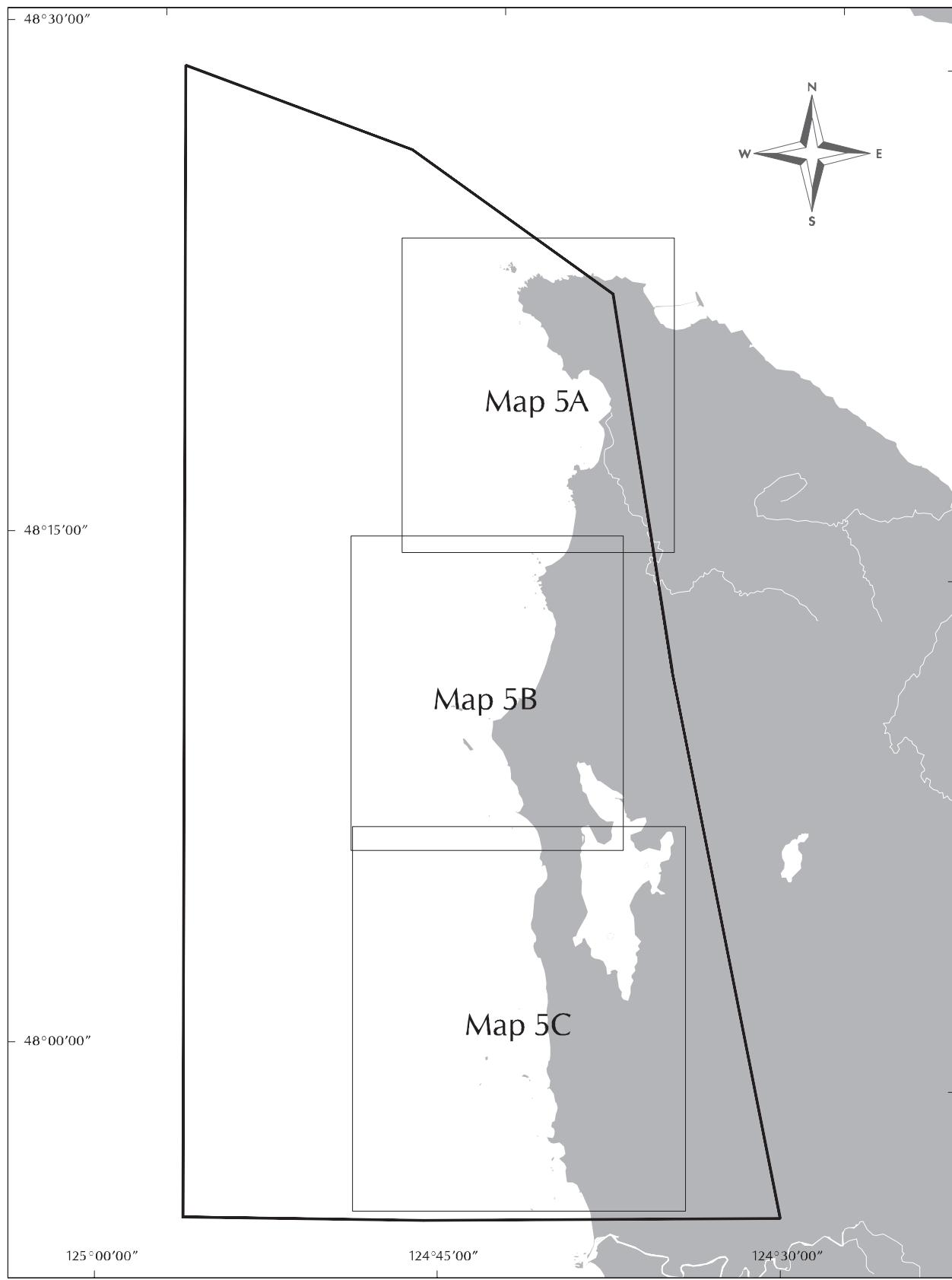
Numerous harbor seal haulout sites are present on intertidal areas around islands, rocks and reefs.

Peak abundances of harbor seals occur during the pupping season (June through early August) and annual molt (mid-August through September). Main Steller and California sea lion haulout sites are at Carroll Island, Bodelteh Islands, Cape Alava and Tatoosh Island.



Steller sea lions resting on unnamed rock west of Bodelteh Island, July 7, 1993.

Olympic Coast-North Region 5: Cape Flattery to Quillayute River



Region 5: Olympic Coast-North

| <u>ID</u> | <u>Location</u> | <u>Survey Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|---------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 127 | S of Cape Johnson | 05.01 | 4757.16 | 12440.25 | PV | 100-500 | LOW |
| 128 | S of Cape Johnson | 05.01 | 4757.40 | 12440.30 | PV | 100-500 | LOW |
| 129 | S of Cape Johnson | 05.01 | 4757.65 | 12439.95 | PV | 100-500 | LOW |
| 130 | N of Cape Johnson | 05.02 | 4758.51 | 12441.03 | PV | 100-500 | LOW |
| 131 | Sandy Island | 05.03 | 4759.21 | 12441.24 | PV | 100-500 | LOW |
| 132 | Reef NE of Sandy Island | 05.04 | 4759.48 | 12440.82 | PV | 100-500 | LOW |
| 133 | Sea Lion Rock | 05.05 | 4759.59 | 12443.45 | PV,EJ,ZC | <100 | LOW |
| 134 | Carroll Island | 05.06 | 4800.34 | 12443.33 | EJ,ZC | 100-500 | ALL |
| 135 | E of Jagged Island | 05.07 | 4759.78 | 12441.48 | PV | 100-500 | LOW |
| 136 | S Cedar Creek Area | 05.08 | 4801.22 | 12441.11 | PV | <100 | LOW |
| 137 | N Cedar Creek Area | 05.08 | 4801.78 | 12441.19 | PV | 100-500 | LOW |
| 138 | Norwegian Memorial Area | 05.08 | 4801.52 | 12441.04 | PV | 100-500 | LOW |
| 139 | S Yellow Banks | 05.09 | 4805.14 | 12441.83 | PV | <100 | LOW |
| 140 | Sand Point Area | 05.10 | 4807.54 | 12443.81 | PV | <100 | LOW |
| 141 | Sand Point Area | 05.10 | 4807.55 | 12442.79 | PV | 100-500 | LOW |
| 142 | E of White Rock | 05.11 | 4808.39 | 12443.16 | PV | <100 | LOW |
| 143 | E of White Rock | 05.11 | 4808.22 | 12443.07 | PV | <100 | LOW |
| 144 | Cape Alava Area | 05.12 | 4809.86 | 12444.19 | PV | 100-500 | LOW |
| 145 | Cape Alava Area | 05.12 | 4809.52 | 12444.74 | PV | 100-500 | LOW |
| 146 | Bodelteh Island Area | 05.13 | 4810.55 | 12445.20 | ZC,PV,EJ | 100-500 | LOW |
| 147 | Bodelteh Island Area | 05.13 | 4810.52 | 12445.49 | ZC,PV,EJ | 100-500 | LOW |
| 148 | W Bodelteh Island Area | 05.13 | 4810.67 | 12445.89 | EJ,ZC | 100-500 | ALL |
| 149 | Ozette Island Area | 05.14 | 4809.32 | 12443.85 | PV | 100-500 | LOW |
| 150 | Ozette Island Area | 05.14 | 4809.24 | 12444.71 | PV | <100 | LOW |
| 151 | Umatilla Reef | 05.15 | 4811.10 | 12447.02 | EJ,ZC | 100-500 | LOW |
| 152 | N of Cape Alava | 05.16 | 4810.91 | 12444.43 | EJ,ZC | 100-500 | ALL |
| 153 | S of Point of Arches | 05.17 | 4814.17 | 12442.17 | PV | <100 | LOW |
| 154 | S of Point of Arches | 05.17 | 4814.54 | 12442.39 | PV | <100 | LOW |
| 155 | S of Point of Arches | 05.17 | 4814.42 | 12442.35 | PV | <100 | LOW |
| 156 | S of Point of Arches | 05.17 | 4814.04 | 12442.28 | PV | <100 | LOW |
| 157 | Point of Arches | 05.18 | 4814.92 | 12442.11 | PV | <100 | LOW |
| 158 | Portage Head Area | 05.19 | 4816.76 | 12440.97 | PV | <100 | LOW |
| 159 | Waatch Point | 05.20 | 4820.39 | 12441.56 | PV | <100 | LOW |
| 160 | S of Fuca Pillar/Skagway | 05.21 | 4822.22 | 12443.68 | PV,EJ | <100 | LOW |
| 161 | Tatoosh Island Area | 05.22 | 4823.53 | 12444.34 | PV,EJ,ZC | <100 | LOW |
| 162 | Tatoosh Island Area | 05.22 | 4823.57 | 12444.57 | EJ,ZC | 100-500 | ALL |
| 163 | E Tatoosh Island Area | 05.22 | 4823.51 | 12443.83 | EJ,ZC | <100 | ALL |
| 164 | Allen's Bay/Midway Area | 05.23 | 4803.69 | 12441.69 | PV | 100-500 | LOW |
| 165 | Allen's Bay/Midway Area | 05.23 | 4803.25 | 12441.51 | PV | 100-500 | LOW |
| 166 | N Yellow Banks | 05.24 | 4806.16 | 12441.63 | PV | <100 | LOW |
| 167 | Duk Point Area | 05.25 | 4812.23 | 12442.08 | PV | <100 | LOW |
| 168 | Father and Son Area | 05.26 | 4813.57 | 12442.70 | PV | <100 | LOW |
| 169 | Inshore of Father and Son | 05.27 | 4813.64 | 12441.92 | PV | <100 | LOW |

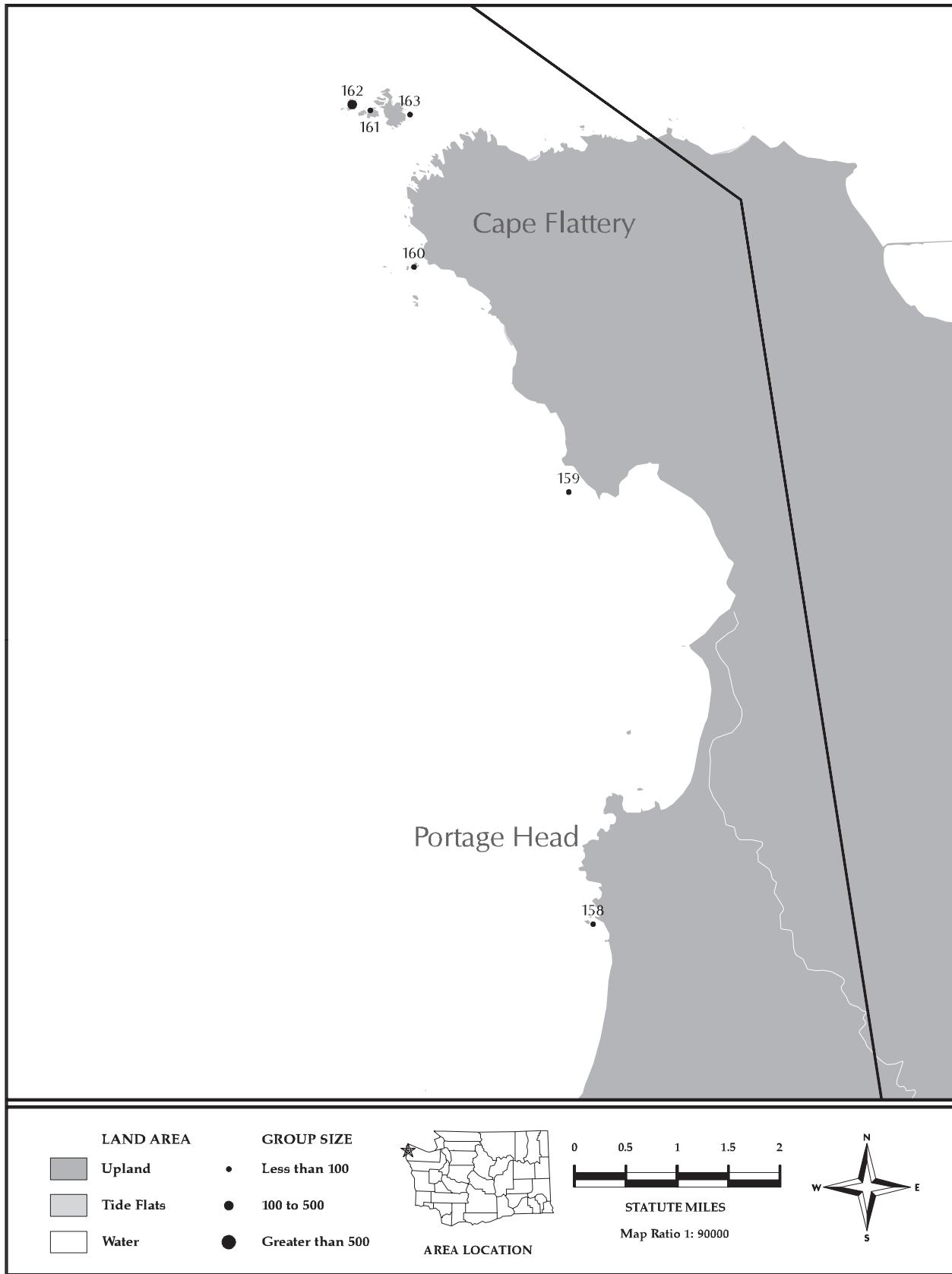
Region 5: Olympic Coast-North

| <u>ID</u> | <u>Description</u> |
|-----------|---|
| 127 | Intertidal rocks and reefs south of Cape Johnson. |
| 128 | Intertidal reefs around point south of Cape Johnson. |
| 129 | Intertidal reefs in bay south of Cape Johnson (Chilean Memorial). |
| 130 | Intertidal reef complex off Cape Johnson. |
| 131 | Intertidal reef complex around Sandy Island (USFWS ID 275). |
| 132 | Intertidal area off point northeast of Sandy Island. |
| 133 | On inshore ledges of Sea Lion Rock (USFWS ID 271 and 272) area. |
| 134 | On ledges and tunnel areas around entire island. |
| 135 | On intertidal reef areas east of Bald Island (Jagged Islet). |
| 136 | Reef areas south of Cedar Creek. |
| 137 | Reef areas off stack just north of Cedar Creek. |
| 138 | Reef areas north of Cedar Creek off Norwegian Memorial. |
| 139 | Reef areas just south of Yellow Banks. |
| 140 | Reef complex offshore from Sand Point. |
| 141 | Reef complex around Sand Point. |
| 142 | Reef complex inshore from White Rock. |
| 143 | Reef complex inshore from White Rock. |
| 144 | Reef complex around Cape Alava. |
| 145 | Reef complex inshore from Ozette Island. |
| 146 | Reef areas on northeast side of island. |
| 147 | Reef areas on south side of island. |
| 148 | Rocks and reef areas off west end of island. |
| 149 | Reef areas southeast of Ozette Island. |
| 150 | Intertidal areas on south side of island. |
| 151 | Intertidal reef areas at Umatilla Reef. |
| 152 | Unnamed rock (USFWS ID 158) northwest from Cape Alava. |
| 153 | Reef areas south of Point of Arches. |
| 154 | Reef areas south of Point of Arches. |
| 155 | Reef areas south of Point of Arches. |
| 156 | Inshore ledges on 'Cooke Rock' (USFWS ID 119). |
| 157 | Intertidal reef areas on south side of Point of Arches. |
| 158 | Reef areas off 'shipwreck' beach. |
| 159 | Rocks and reef areas off Waatch Point. |
| 160 | Rocks and reef areas around Skagway Rocks and Fuca Pillar. |
| 161 | Intertidal rocks off west side of island. |
| 162 | Intertidal rocks and reef areas off west side of island. |
| 163 | Intertidal rocks on east side of island. |
| 164 | Reef areas along midway beach (off Allen's Bay in Lake Ozette). |
| 165 | Reef areas off south end of Lake Ozette. |
| 166 | Reef area at point north of Yellow Banks. |
| 167 | On scattered rocks and reef areas off Duk Point. |
| 168 | Intertidal ledges on inshore side of Father and Son Rocks. |
| 169 | Reef areas inshore from Father and Son Rocks. |



Olympic Coast-North

Map 5A: Cape Flattery to Portage Head



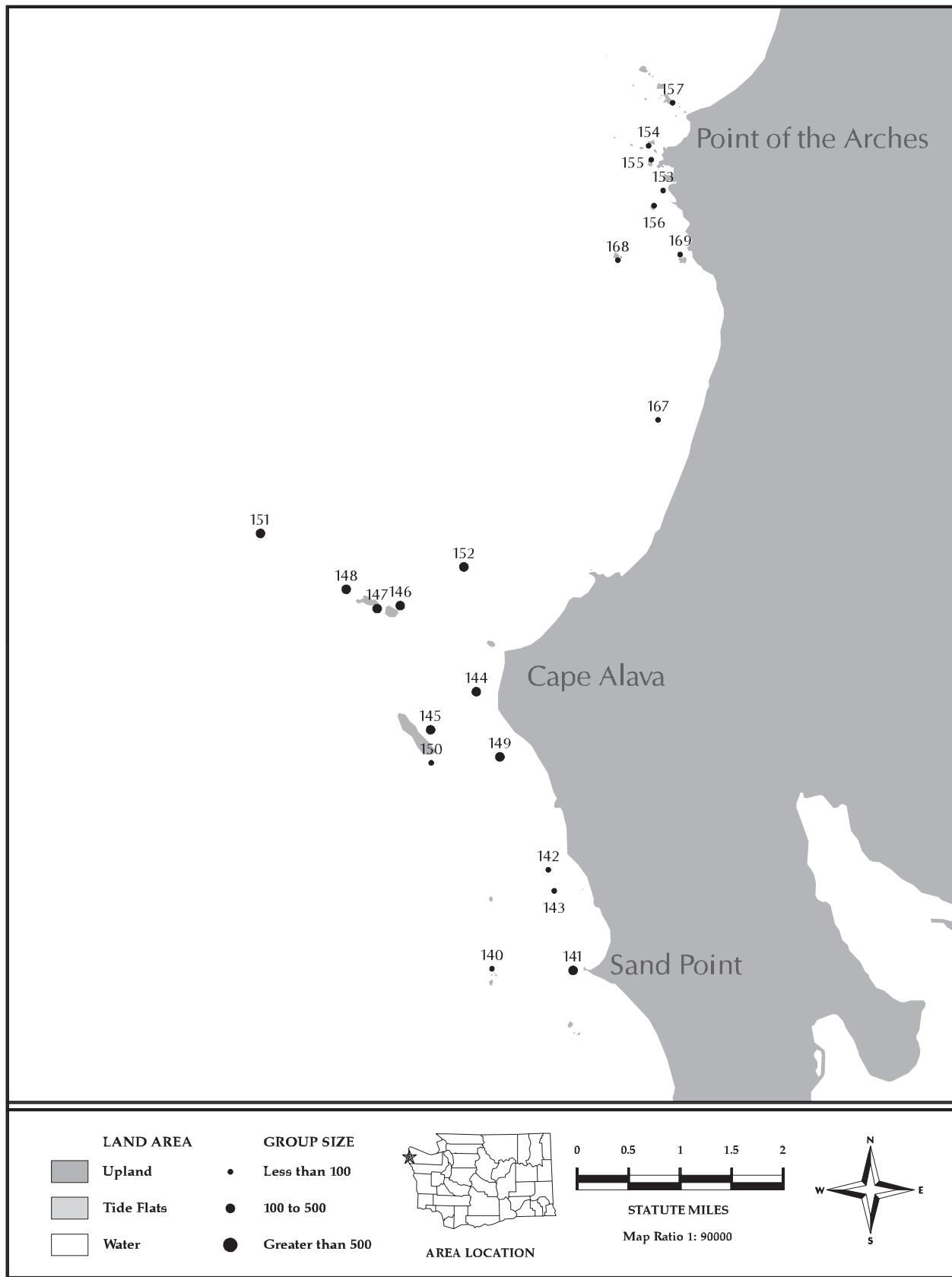
Olympic Coast-North
Map 5A: Cape Flattery to Portage Head

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------|-----------------|------------------|----------------|---|
| 158 | Portage Head | 4816.76 | 12440.97 | PV | Reef areas off 'shipwreck' beach. |
| 159 | Waatch Point | 4820.39 | 12441.56 | PV | Rocks and reef areas off Waatch Point. |
| 160 | Fuca Pillar/Skagway | 4822.22 | 12443.68 | PV,EJ | Areas around Skagway Rocks and Fuca Pillar. |
| 161 | Tatoosh Island | 4823.53 | 12444.34 | PV,EJ,ZC | Intertidal rocks off west side of island. |
| 162 | W Tatoosh Island | 4823.57 | 12444.57 | PV,EJ,ZC | Rocks and reef areas off west side of island. |
| 163 | E Tatoosh Island | 4823.51 | 12443.83 | EJ,ZC | Rocks and reefs on east side of island. |



Olympic Coast-North

Map 5B: Point of Arches to Sand Point



Olympic Coast-North
Map 5B: Point of Arches to Sand Point

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|--|
| 140 | Sand Point Area | 4807.54 | 12443.81 | PV | Reef complex offshore from Sand Point. |
| 141 | Sand Point Area | 4807.55 | 12442.79 | PV | Reef complex around Sand Point. |
| 142 | E of White Rock | 4808.39 | 12443.16 | PV | Reef complex inshore from White Rock. |
| 143 | E of White Rock | 4808.22 | 12443.07 | PV | Reef complex inshore from White Rock. |
| 144 | Cape Alava Area | 4809.86 | 12444.19 | PV | Reef complex around Cape Alava. |
| 145 | Cape Alava Area | 4809.52 | 12444.74 | PV | Reef complex inshore from Ozette Island. |
| 146 | Bodelteh Island Area | 4810.55 | 12445.20 | PV | Reef areas on northeast side of island. |
| 147 | Bodelteh Island Area | 4810.52 | 12445.49 | PV | Reef areas on south side of island. |
| 148 | W Bodelteh Island Area | 4810.67 | 12445.89 | EJ,ZC | Rocks and reef areas off west end of island. |
| 149 | Ozette Island Area | 4809.32 | 12443.85 | PV | Reef areas southeast of Ozette Island. |
| 150 | Ozette Island Area | 4809.24 | 12444.71 | PV | Intertidal areas on south side of island. |
| 151 | Umatilla Reef | 4811.10 | 12447.02 | EJ,ZC | Intertidal reef areas at Umatilla Reef. |
| 152 | NW of Cape Alava | 4810.91 | 12444.43 | EJ,ZC | Unnamed rock (USFWS ID 158) northwest from Cape Alava. |
| 153 | S of Point of Arches | 4814.17 | 12242.17 | PV | Reef areas south of Point of Arches. |
| 154 | S of Point of Arches | 4814.54 | 12242.39 | PV | Reef areas south of Point of Arches. |
| 155 | S of Point of Arches | 4814.42 | 12242.35 | PV | Reef areas south of Point of Arches. |
| 156 | S of Point of Arches | 4814.04 | 12442.28 | PV | Inshore ledges on "Cooke Rock" (USFWS ID 119). |
| 157 | Point of Arches | 4814.92 | 12442.11 | PV | Intertidal reef areas on south side of Point of Arches. |
| 167 | Duk Point Area | 4812.23 | 12442.08 | PV | On scattered rocks and reef areas off Duk Point. |
| 168 | Father and Son Area | 4813.57 | 12442.70 | PV | Intertidal ledges on inshore side of Father and Son Rocks. |
| 169 | Inshore of Father and Son | 4813.64 | 12441.92 | PV | Reef areas inshore from Father and Son Rocks. |



Olympic Coast-North

Map 5C: Lake Ozette to Rialto Beach



Olympic Coast-North
Map 5C: Lake Ozette to Rialto Beach

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|-------------------------|-----------------|------------------|----------------|---|
| 127 | S of Cape Johnson | 4857.16 | 12440.25 | PV | Intertidal rocks and reefs south of Cape Johnson. |
| 128 | S of Cape Johnson | 4857.40 | 12440.30 | PV | Intertidal reefs around point south of Cape Johnson. |
| 129 | S of Cape Johnson | 4857.65 | 12439.95 | PV | Intertidal reefs in bay south of Cape Johnson (Chilean Memorial). |
| 130 | N of Cape Johnson | 4858.51 | 12441.03 | PV | Intertidal reef complex off Cape Johnson. |
| 131 | Sandy Island | 4859.21 | 12441.24 | PV | Intertidal reef complex around Sandy Island (USFWS ID 275). |
| 132 | Reef NE of Sandy Island | 4859.48 | 12440.82 | PV | Intertidal reef complex off point northeast of Sandy Island. |
| 133 | Sea Lion Rock | 4859.59 | 12443.45 | PV | On inshore ledges of Sea Lion Rock (USFWS ID 271 and 272) area. |
| 134 | Carroll Island | 4800.34 | 12443.33 | PV | On ledges and tunnel areas around entire island. |
| 135 | E of Jagged Island | 4859.78 | 12441.48 | PV | On intertidal reef areas east of Bald Island (Jagged Islet). |
| 136 | S Cedar Creek Area | 4801.22 | 12441.11 | PV | Reef areas south of Cedar Creek. |
| 137 | N Cedar Creek Area | 4801.78 | 12441.19 | PV | Reef areas off stack just north of Cedar Creek. |
| 138 | Norwegian Memorial Area | 4801.52 | 12441.04 | PV | Reef areas north of Cedar Creek off Norwegian Memorial. |
| 139 | S Yellow Banks | 4805.14 | 12241.83 | PV | Reef areas at point south of Yellow Banks. |
| 164 | Allen's Bay/Midway Area | 4803.69 | 12441.69 | PV | Reef areas along midway beach (off Allen's Bay in Lake Ozette). |
| 165 | Allen's Bay/Midway Area | 4803.25 | 12441.51 | PV | Reef areas off south end of Lake Ozette. |
| 166 | N Yellow Banks | 4806.16 | 12441.63 | PV | Reef areas at point north of Yellow Banks. |



Region 6: Strait of Juan de Fuca-West

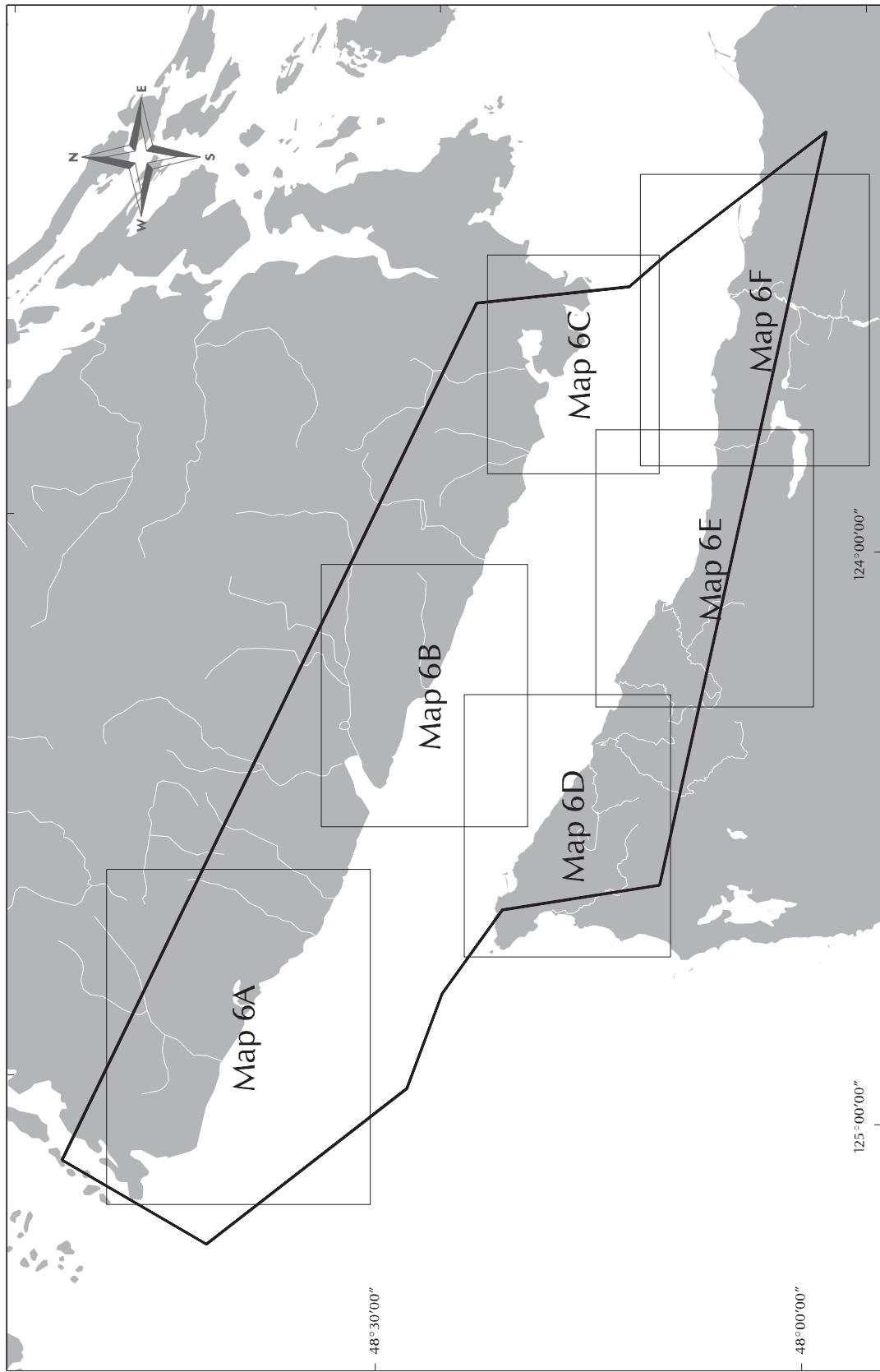
Use NOAA Charts 18460 (Strait of Juan de Fuca Entrance) and 18465 (Strait of Juan de Fuca-eastern part) for navigation and bathymetry details.

Scattered harbor seal haulout sites are located on intertidal rocks, reefs, and ledges along the Strait of Juan de Fuca and Vancouver Island. Peak harbor seal abundances occur during pupping (mid-June through August) and annual molt (late August through October). Steller sea lion haulout sites are near Carmanah and Sombrio Point on Vancouver Island. California sea lion haulout sites are located at Waadah Island and Sombrio Point.



Steller sea lions on offshore rock near Carmanah, British Columbia, May 19, 1997.

Strait of Juan de Fuca-West Region 6



Region 6: Strait of Juan de Fuca-West

| ID | Location | Survey | | Species | Count | Use | |
|-----|---------------------------|--------|----------|----------|-------|---------|-----|
| | | Code | Latitude | | | | |
| 170 | Waadah Island | 6.01 | 4822.93 | 12435.50 | PV | <100 | LOW |
| 171 | N Waadah Island | 6.01 | 4823.15 | 12435.98 | ZC | <100 | ALL |
| 172 | Seal and Sail Rock Area | 6.02 | 4821.71 | 12432.74 | PV | <100 | LOW |
| 173 | Seal and Sail Rock Area | 6.02 | 4821.55 | 12432.63 | PV | <100 | LOW |
| 174 | Seal and Sail Rock Area | 6.02 | 4821.16 | 12431.90 | PV | <100 | LOW |
| 175 | W of Seiku River Mouth | 6.03 | 4818.07 | 12424.76 | PV | <100 | LOW |
| 176 | W of Seiku River Mouth | 6.03 | 4818.30 | 12425.18 | PV | <100 | LOW |
| 177 | Eagle Point Area | 6.04 | 4816.75 | 12420.44 | PV | <100 | LOW |
| 178 | Eagle Point Area | 6.04 | 4816.58 | 12419.97 | PV | <100 | LOW |
| 179 | Eagle Point Area | 6.04 | 4816.48 | 12419.48 | PV | <100 | LOW |
| 180 | Ship Point Area | 6.05 | 4815.73 | 12414.03 | PV | <100 | LOW |
| 181 | Ship Point Area | 6.05 | 4815.44 | 12413.43 | PV | <100 | LOW |
| 182 | Ship Point Area | 6.05 | 4815.03 | 12412.37 | PV | <100 | LOW |
| 183 | W of Pillar Point Area | 6.06 | 4813.30 | 12407.06 | PV | <100 | LOW |
| 184 | W of Pillar Point Area | 6.06 | 4813.07 | 12406.05 | PV | <100 | LOW |
| 185 | W of Pillar Point Area | 6.06 | 4813.64 | 12408.26 | PV | <100 | LOW |
| 186 | Deep Creek Area | 6.07 | 4810.70 | 12402.57 | PV | <100 | LOW |
| 187 | Deep Creek Area | 6.07 | 4810.56 | 12401.48 | PV | <100 | LOW |
| 188 | Deep Creek Area | 6.07 | 4810.39 | 12400.24 | PV | <100 | LOW |
| 189 | Low Point/Lyre River Area | 6.08 | 4809.62 | 12349.88 | PV | <100 | LOW |
| 190 | Crescent Bay/Tongue Point | 6.09 | 4810.07 | 12342.50 | PV | <100 | LOW |
| 191 | Striped Peak Area | 6.10 | 4809.85 | 12340.80 | PV | <100 | LOW |
| 192 | Striped Peak Area | 6.10 | 4809.85 | 12341.33 | PV | <100 | LOW |
| 193 | Striped Peak Area | 6.10 | 4809.73 | 12340.03 | PV | <100 | LOW |
| 194 | Striped Peak Area | 6.10 | 4809.60 | 12339.65 | PV | <100 | LOW |
| 195 | Port Angeles Area | 6.11 | 4807.07 | 12324.67 | PV | <100 | LOW |
| 196 | Port Angeles Area | 6.12 | 4808.21 | 12327.46 | PV | <100 | LOW |
| 197 | Rocks E of Pysht River | 6.13 | 4811.86 | 12305.25 | PV | <100 | LOW |
| 198 | Twin River Area | 6.14 | 4809.76 | 12355.06 | PV | <100 | LOW |
| 199 | Twin River Area | 6.14 | 4809.82 | 12352.69 | PV | <100 | LOW |
| 200 | Seabird Rocks | 6.15 | 4844.91 | 12509.32 | PV | <100 | LOW |
| 201 | Sombrio Point Reef | 6.16 | 4829.72 | 12317.99 | PV | <100 | LOW |
| 202 | Sombrio Point | 6.16 | 4829.11 | 12317.25 | PV,ZC | <100 | LOW |
| 203 | Rock W of Carmanah Point | 6.17 | 4836.96 | 12345.62 | EJ | 100-500 | LOW |
| 204 | Dare Point Reef | 6.18 | 4838.64 | 12348.11 | PV | <100 | LOW |
| 205 | Sooke Harbor | 6.19 | 4821.32 | 12343.43 | PV | <100 | LOW |
| 206 | Sooke Harbor | 6.19 | 4822.26 | 12342.90 | PV | <100 | LOW |
| 207 | Otter Point | 6.21 | 4821.48 | 12349.43 | PV | <100 | LOW |
| 208 | NW of Church Point | 6.22 | 4818.79 | 12335.40 | PV | <100 | LOW |
| 209 | Becher Bay | 6.23 | 4819.68 | 12336.55 | PV | <100 | LOW |
| 210 | Muir Point | 6.24 | 4822.75 | 12352.25 | PV | <100 | LOW |
| 211 | E San Simon Point | 6.25 | 4826.02 | 12305.48 | PV | <100 | LOW |
| 212 | Owen Point | 6.26 | 4832.68 | 12329.99 | PV | <100 | LOW |
| 213 | W Tsuquanah Point | 6.27 | 4840.40 | 12352.91 | PV | <100 | LOW |
| 214 | Pachena Point | 6.28 | 4843.21 | 12504.81 | PV,EJ | <100 | LOW |
| 215 | E of Cape Beale | 6.29 | 4847.03 | 12510.51 | PV | <100 | LOW |
| 216 | Cullite Cove | 6.30 | 4834.12 | 12437.10 | PV | <100 | LOW |
| 217 | Walbran Creek | 6.31 | 4834.81 | 12439.91 | PV | <100 | LOW |
| 218 | Cerrantes Rocks | 6.32 | 4831.67 | 12427.17 | PV | <100 | LOW |



Region 6: Strait of Juan de Fuca-West

ID Description

- 170 Reef area on east side of Waadah Island.
- 171 On north tip of island.
- 172 Intertidal areas on Seal Rock.
- 173 Intertidal areas on Sail Rock.
- 174 Intertidal reef areas of Sail Rock.
- 175 Intertidal reef areas west of Sekiu River.
- 176 Intertidal reef areas west of Sekiu River.
- 177 Intertidal ledges east of Eagle Point.
- 178 Intertidal ledges east of Eagle Point.
- 179 Intertidal ledges east of Eagle Point.
- 180 Intertidal ledges east of Slip Point.
- 181 Intertidal ledges east of Slip Point.
- 182 Intertidal ledges east of Slip Point.
- 183 Intertidal ledges west of Pillar Point.
- 184 Intertidal ledges west of Pillar Point.
- 185 Intertidal ledges west of Pillar Point.
- 186 Reef areas off Deep Creek.
- 187 Reef areas off Deep Creek.
- 188 Reef areas off Deep Creek.
- 189 Scattered rocks and reef areas east of Lyre River.
- 190 Intertidal areas of Tongue Point.
- 191 Intertidal ledges north of Striped Peak.
- 192 Intertidal ledges north of Striped Peak.
- 193 Intertidal ledges north of Striped Peak.
- 194 Intertidal ledges north of Striped Peak.
- 195 Log booms off the ITT-Rayonier mill site (mill closed in 1997)
- 196 Log booms on inside of Ediz Hook in Port Angeles harbor.
- 197 Scattered intertidal rocks and reef areas east of the Pysht River.
- 198 Scattered intertidal rocks and reef areas near Twin Rivers.
- 199 Scattered intertidal rocks and reef areas near Twin Rivers.
- 200 Intertidal rocks and reef areas around Seabird Rocks.
- 201 Intertidal rocks and reef areas around Sombrio Point.
- 202 Intertidal ledges near Sombrio Point.
- 203 Rock W of Carmanah Point.
- 204 Reef area off Dare Point.
- 205 Sooke Harbor area.
- 206 Intertidal area off Sooke Harbor.
- 207 Intertidal rocks and reef areas off Otter Point.
- 208 Intertidal rocks and reef areas off Church Point.
- 209 Intertidal rocks and reef areas around small island in Becher Bay.
- 210 Intertidal rocks and reef areas off Muir Point.
- 211 Intertidal ledges and rocks east of San Simon Point.
- 212 Intertidal ledges and rocks off Owen Point.
- 213 Intertidal rocks and reef areas west of Tsuquanah Point.
- 214 Intertidal rocks and reef areas around Pachena Point.
- 215 Intertidal rocks and reef areas east of Cape Beale.
- 216 Intertidal rocks and reef areas off Cullite Cove.
- 217 Intertidal rocks and reef areas off Walbran Creek.
- 218 Intertidal ledges and reef areas at Cerantes Rocks.



Strait of Juan de Fuca-West

Map 6A: Cape Beale to Cullite Cove



Strait of Juan de Fuca-West
Map 6A: Cape Beale to Cullite Cove

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------|-----------------|------------------|----------------|---|
| 200 | Seabird Rock | 4844.91 | 125 09.32 | PV | Intertidal rocks and reef areas around Seabird Rocks. |
| 203 | W of Carmanah Point | 4836.96 | 124 45.62 | EJ | Offshore rock W of Carmanah Point. |
| 204 | Dare Point Reef | 4838.64 | 124 48.11 | PV | Reef area off Dare Point. |
| 213 | W Tsuquanah Point | 4840.40 | 124 52.91 | PV | Intertidal rocks and reef areas west of Tsuquanah Island. |
| 214 | Pachena Point | 4843.21 | 125 04.81 | PV,EJ | Intertidal rocks and reef areas around Pachena Point. |
| 215 | E of Cape Beale | 4747.03 | 125 10.51 | PV | Intertidal rocks and reef areas east of Cape Beale. |
| 216 | Cullite Cove | 4834.12 | 124 37.10 | PV | Intertidal rocks and reef areas off Cullite Cove. |
| 217 | Walbran Creek | 4734.81 | 124 39.91 | PV | Intertidal rocks and reef areas off Walbran Creek. |



Strait of Juan de Fuca-West

Map 6B: Port San Juan to San Simon Point



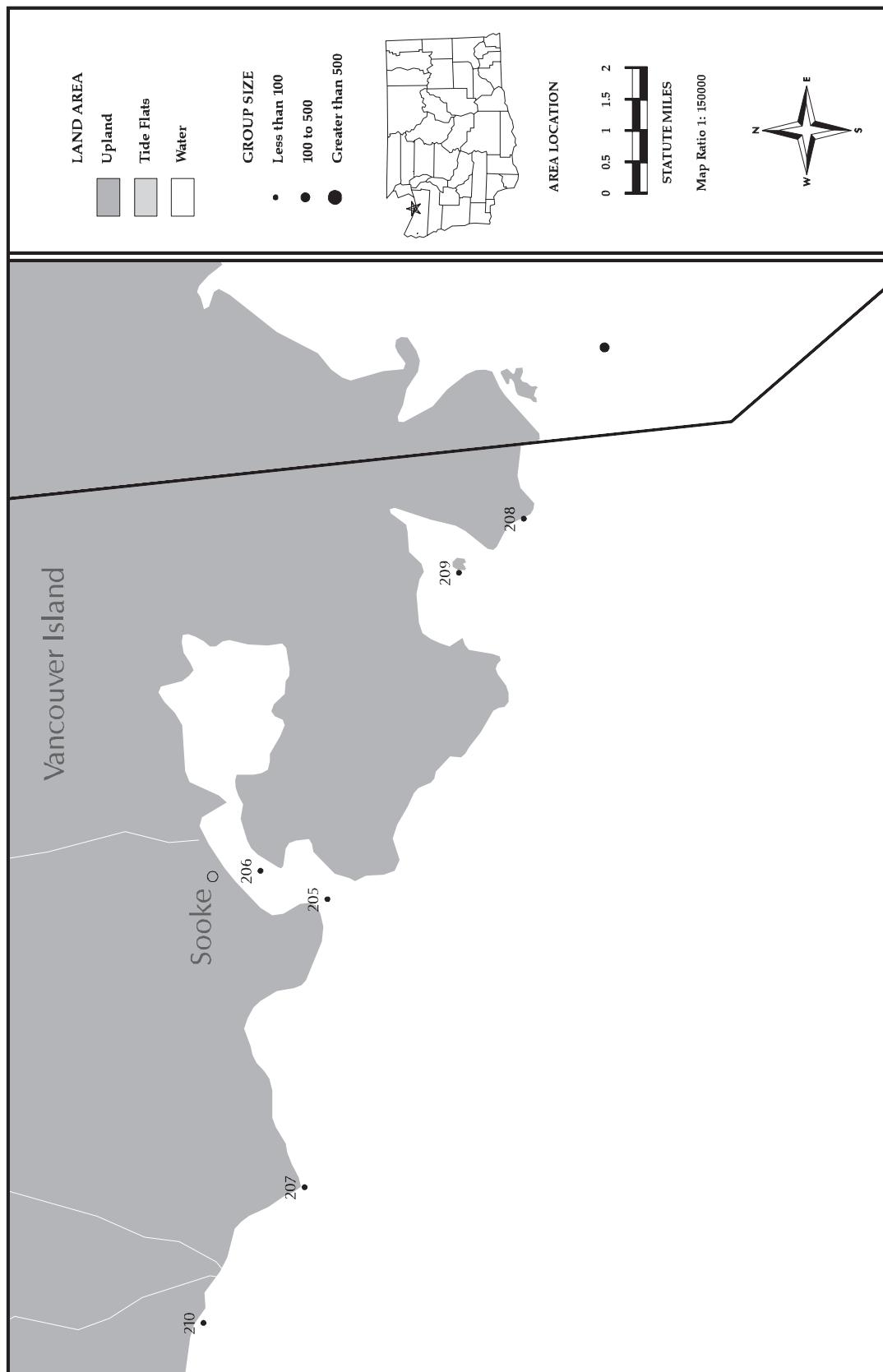
Strait of Juan de Fuca-West
Map 6B: Port San Juan to San Simon Point

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|--------------------|-----------------|------------------|----------------|---|
| 201 | Sombrio Point Reef | 48 29.72 | 124 17.99 | PV | Intertidal rocks and reef areas around Sombrio Point. |
| 202 | Sombrio Point | 48 29.11 | 124 17.25 | PV,ZC | Intertidal ledges near Sombrio Point. |
| 211 | E San Simon Point | 48 26.02 | 124 05.48 | PV | Intertidal ledges and rock east of San Simon Point. |
| 212 | Owen Point | 48 32.68 | 124 29.99 | PV | Intertidal ledges and rocks off Owen Point. |
| 218 | Cerrantes Rocks | 48 31.67 | 124 27.17 | PV | Intertidal ledges and reef areas at Cerrantes Rocks. |



Strait of Juan de Fuca-West

Map 6C: Muir Point to Church Point

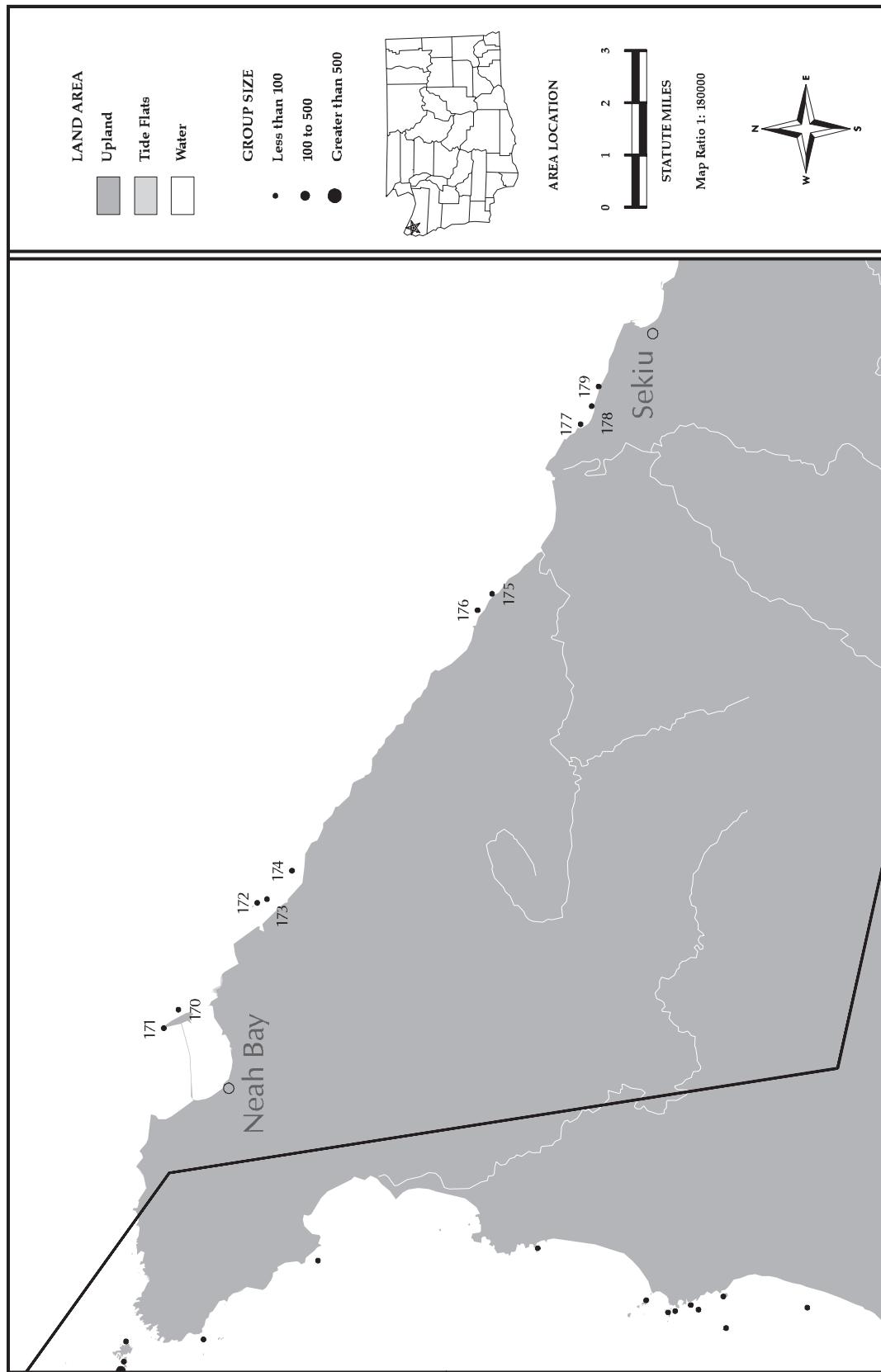


Strait of Juan de Fuca-West
Map 6C: Muir Point to Church Point

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|--------------------|-----------------|------------------|----------------|---|
| 205 | Sooke Harbor | 4821.32 | 12343.43 | PV | Sooke Harbor area. |
| 206 | Sooke Harbor | 4822.26 | 12342.90 | PV | Intertidal area off Sooke Harbor. |
| 207 | Otter Point | 4821.48 | 12349.43 | PV | Intertidal rocks and reef areas off Otter Point. |
| 208 | NW of Church Point | 4818.79 | 12335.40 | PV | Intertidal rocks and reef areas off Church Point. |
| 209 | Becher Bay | 4819.68 | 12336.55 | PV | Intertidal areas on small island in Becher Bay. |
| 210 | Muir Point | 4822.75 | 12352.25 | PV | Intertidal rocks and reef areas off Muir Point. |



Strait of Juan de Fuca-West Map 6D: Neah Bay to Sekiu



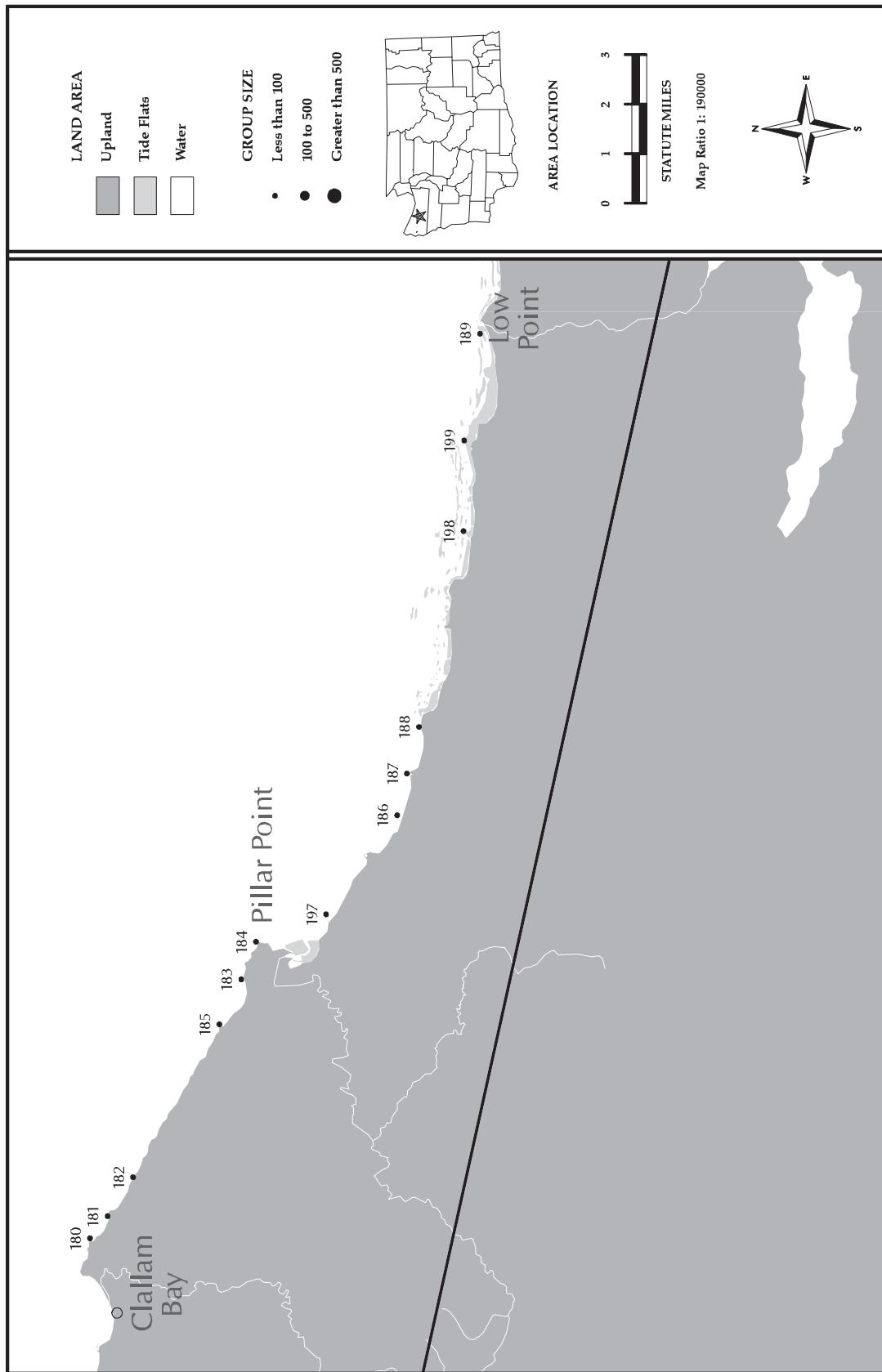
Strait of Juan de Fuca-West
Map 6D: Neah Bay to Sekiu

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|-------------------------|-----------------|------------------|----------------|--|
| 170 | Waadah Island | 4822.93 | 12435.50 | PV | Reef area on east side of Waadah Island. |
| 171 | N Waadah Island | 4823.15 | 12435.98 | ZC | On north tip of island. |
| 172 | Seal and Sail Rock Area | 4821.71 | 12432.74 | PV | Intertidal areas on Seal Rock. |
| 173 | Seal and Sail Rock Area | 4821.55 | 12432.63 | PV | Intertidal areas on Sail Rock. |
| 174 | Seal and Sail Rock Area | 4821.16 | 12431.90 | PV | Intertidal reef areas east of Sail Rock. |
| 175 | W of Seiku River Mouth | 4818.07 | 12424.76 | PV | Intertidal reef areas west of Sekiu River. |
| 176 | W of Seiku River Mouth | 4818.30 | 12425.18 | PV | Intertidal reef areas west of Sekiu River. |
| 177 | Eagle Point Area | 4816.75 | 12420.44 | PV | Intertidal ledges east of Eagle Point. |
| 178 | Eagle Point Area | 4816.58 | 12419.97 | PV | Intertidal ledges east of Eagle Point. |
| 179 | Eagle Point Area | 4816.48 | 12419.48 | PV | Intertidal ledges east of Eagle Point. |



Strait of Juan de Fuca-West

Map 6E: Clallam Bay to Low Point



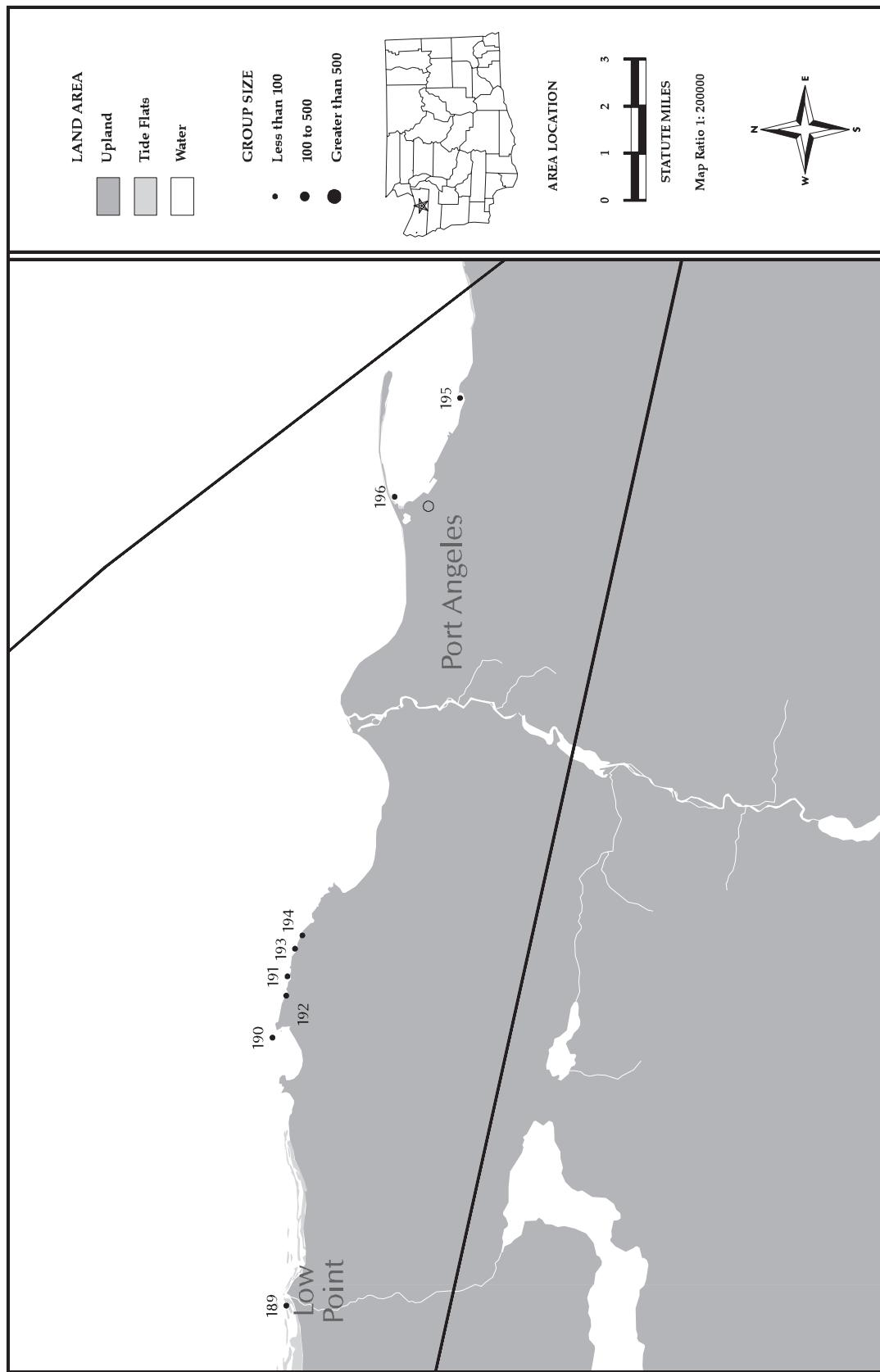
Strait of Juan de Fuca-West
Map 6E: Clallam Bay to Low Point

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|--|
| 180 | Slip Point Area | 48 15.73 | 124 14.03 | PV | Intertidal ledges east of Slip Point. |
| 181 | Slip Point Area | 48 15.44 | 124 13.43 | PV | Intertidal ledges east of Slip Point. |
| 182 | Slip Point Area | 48 15.03 | 124 12.37 | PV | Intertidal ledges east of Slip Point. |
| 183 | W of Pillar Point Area | 48 13.30 | 124 07.06 | PV | Intertidal ledges west of Pillar Point. |
| 184 | W of Pillar Point Area | 48 13.07 | 124 06.05 | PV | Intertidal ledges west of Pillar Point. |
| 185 | W of Pillar Point Area | 48 13.64 | 124 08.26 | PV | Intertidal ledges west of Pillar Point. |
| 186 | Deep Creek Area | 48 10.70 | 124 02.57 | PV | Reef areas off Deep Creek. |
| 187 | Deep Creek Area | 48 10.56 | 124 01.48 | PV | Reef areas off Deep Creek. |
| 188 | Deep Creek Area | 48 10.39 | 124 00.24 | PV | Reef areas off Deep Creek. |
| 189 | Low Point/Lyre River Area | 48 09.62 | 124 49.88 | PV | Scattered rocks and reef areas east of Lyre River. |
| 197 | Rocks E of Pysht River | 48 11.86 | 124 05.25 | PV | Scattered intertidal rocks and reef areas east of the Pysht River. |
| 198 | Twin River Area | 48 09.76 | 123 55.06 | PV | Scattered intertidal rocks and reef areas near Twin Rivers. |
| 199 | Twin River Area | 48 09.82 | 123 52.69 | PV | Scattered intertidal rocks and reef areas near Twin Rivers. |



Strait of Juan de Fuca-West

Map 6F: Low Point to Port Angeles



Strait of Juan de Fuca-West
Map 6F: Low Point to Port Angeles

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|---|
| 189 | Low Point/Lyre River Area | 4809.62 | 12349.88 | PV | Scattered rocks and reef areas east of Lyre River. |
| 190 | Crescent Bay/Tongue Point | 4810.07 | 12342.50 | PV | Intertidal areas off Tongue Point. |
| 191 | Striped Peak Area | 4809.85 | 12340.80 | PV | Intertidal ledges north of Striped Peak. |
| 192 | Striped Peak Area | 4809.85 | 12341.33 | PV | Intertidal ledges north of Striped Peak. |
| 193 | Striped Peak Area | 4809.73 | 12340.03 | PV | Intertidal ledges north of Striped Peak. |
| 194 | Striped Peak Area | 4809.60 | 12339.65 | PV | Intertidal ledges north of Striped Peak. |
| 195 | Port Angeles Area | 4807.07 | 12324.67 | PV | Log booms off the ITT-Rayonier mill site (mill closed in 1997). |
| 196 | Port Angeles Area | 4808.21 | 12327.46 | PV | Log booms on inside of Ediz Hook in Port Angeles harbor. |



Region 7: Strait of Juan de Fuca-East

Use NOAA Charts 18465 (Strait of Juan de Fuca-eastern part) and 18440 (Puget Sound) for navigation and bathymetry details.

Scattered harbor seal haulout sites are located on intertidal rocks, reefs and islands in this region. Large harbor seal haulout sites are found at Dungeness Spit, Protection Island and Smith/Minor Islands. A small number of elephant seals may also be found at these same locations as well. Elephant seal pups have recently been recorded at Protection and Minor Islands. For harbor seals, peak counts occur during the pupping season (mid-June through August) and annual molt (late July through September). With the exception of occasional use of navigation buoys, no sea lion haulout sites are known in this region.



Harbor seals hauled out on cobble beach on south side of Minor Island, August 2, 1993.

Strait of Juan de Fuca-East Region 7



Region 7: Strait of Juan de Fuca-East

| <u>ID</u> | <u>Location</u> | <u>Survey Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|--------------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 219 | Graveyard Spit | 07.01 | 4809.65 | 12308.86 | PV | 100-500 | LOW |
| 220 | Dungeness Spit End | 07.02 | 4811.07 | 12305.98 | PV,MA | 100-500 | LOW |
| 221 | Dungeness Bay Area | 07.03 | 4810.05 | 12308.56 | PV | <100 | LOW |
| 222 | Dungeness Bay Area | 07.03 | 4809.65 | 12309.34 | PV | <100 | LOW |
| 223 | Gray's Marsh (Kulakala Point) | 07.04 | 4807.14 | 12303.59 | PV | <100 | LOW |
| 224 | Protection Island, Kanem Spit | 07.05 | 4807.13 | 12256.70 | PV,MA | 100-500 | LOW |
| 225 | Protection Island, Violet Spit | 07.06 | 4807.63 | 12254.47 | PV,MA | 100-500 | LOW |
| 226 | Smith Island Area | 07.07 | 4819.08 | 12250.20 | PV | <100 | LOW |
| 227 | Smith Island Area | 07.07 | 4819.21 | 12250.10 | PV | 100-500 | LOW |
| 228 | Minor Island Area | 07.08 | 4819.33 | 12249.37 | PV | 500> | LOW |
| 229 | Minor Island Area | 07.08 | 4819.46 | 12248.97 | PV,MA | <100 | LOW |
| 230 | Kilisut Harbor Spit | 07.09 | 4805.32 | 12243.99 | PV | 100-500 | LOW |
| 231 | East of Marrowstone Island | 07.10 | 4802.86 | 12240.72 | PV | <100 | LOW |
| 232 | East of Marrowstone Island | 07.10 | 4804.69 | 12241.11 | PV | <100 | LOW |
| 233 | Sequim Bay, Kiapot Point | 07.12 | 4804.74 | 12302.41 | PV | <100 | LOW |
| 234 | Discovery Bay Area | 07.14 | 4802.87 | 12252.28 | PV | <100 | LOW |
| 235 | Klas and Colvos Rocks Area | 08.01 | 4757.75 | 12240.24 | PV | <100 | LOW |
| 236 | Klas and Colvos Rocks Area | 08.01 | 4756.96 | 12239.96 | PV | 100-500 | LOW |
| 253 | Rocks off Tala Point | 08.10 | 4755.61 | 12239.21 | PV | <100 | ALL |



Region 7: Strait of Juan de Fuca-East

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 219 | Beach areas around Graveyard Spit in Dungeness Bay. Nursery area. |
| 220 | On beach at tip of Dungeness Spit. |
| 221 | Along beach on east side of Dungeness Bay. |
| 222 | Along north side of main channel in Dungeness Bay. |
| 223 | Beach and intertidal sand bars near Gray's Marsh (Kulakala Point) |
| 224 | On beach and spit areas around Kanem Spit. Nursery area. |
| 225 | On beach area around Violet Spit. Nursery area. |
| 226 | On beaches and rocks on south side of Smith Island. |
| 227 | On scattered rocks along north side of Smith Island. |
| 228 | On cobble beach along south side of Minor Island. Nursery area. |
| 229 | On beach along north side of Minor Island. Nursery area. |
| 230 | Along beach and spit at entrance to Kilisut Harbor. |
| 231 | Scattered intertidal rocks along the northeast side of Marrowstone Island. |
| 232 | Scattered intertidal rocks along southeast side of Marrowstone Island. |
| 233 | West end of Kiapot Point at entrance to Sequim Bay. |
| 234 | Along beaches and spit on west side of Discovery Bay. |
| 235 | Intertidal reef and shoals around Klas Rock. |
| 236 | Intertidal shoals and rocks around Colvos Rocks. |
| 253 | Scattered intertidal rocks off Tala Point. |



Strait of Juan de Fuca-East

Map 7A: Smith and Minor Islands



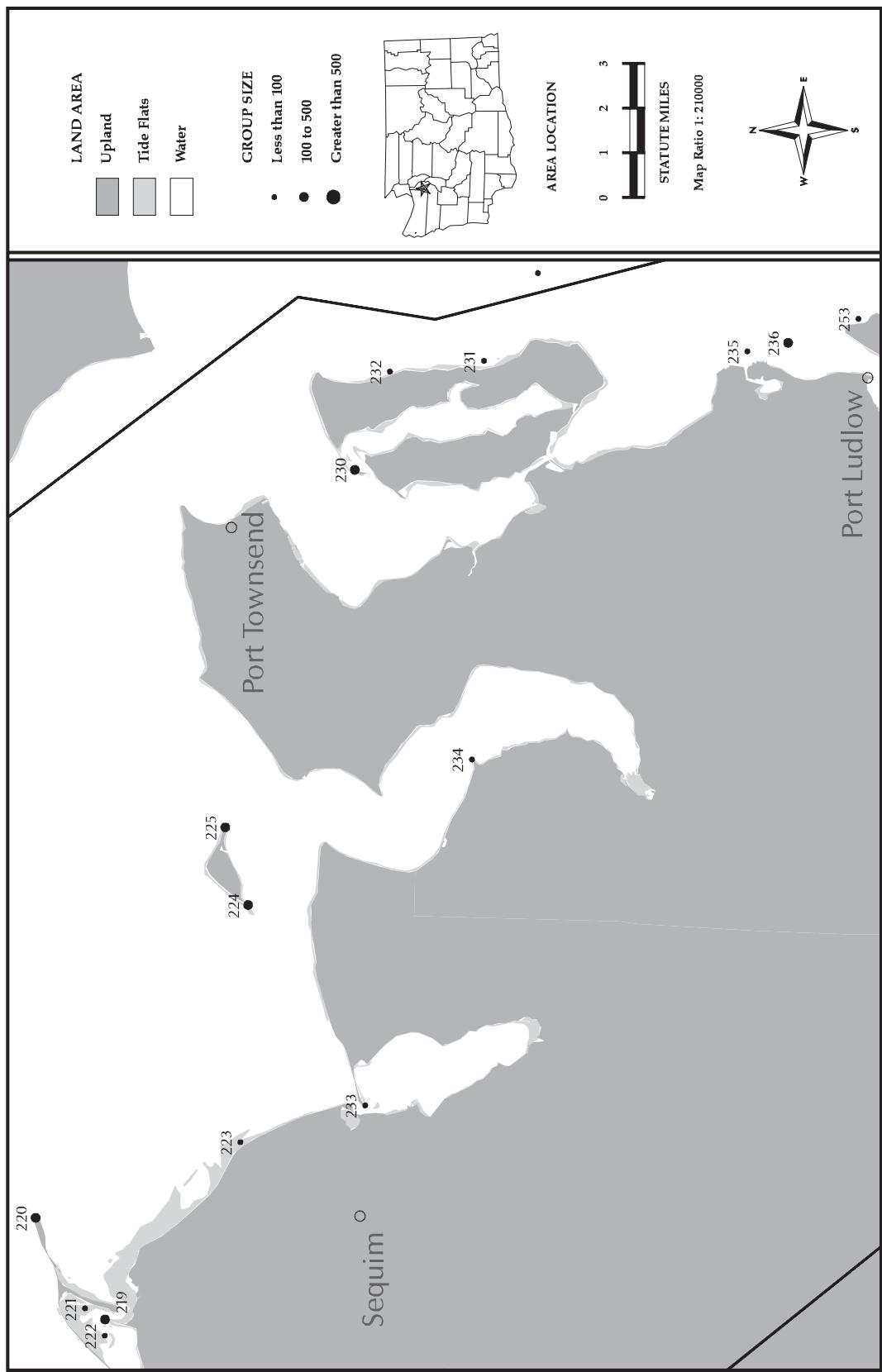
Strait of Juan de Fuca-East
Map 7A: Smith and Minor Islands

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|-------------------|-----------------|------------------|----------------|---|
| 226 | Smith Island Area | 48 19.08 | 122 50.20 | PV | On beaches and rocks on south side of island. |
| 227 | Smith Island Area | 48 19.21 | 122 50.10 | PV | On scattered rocks along north side of island. |
| 228 | Minor Island Area | 48 19.33 | 122 49.37 | PV | On beach along south side of island. Nursery area. |
| 229 | Minor Island Area | 48 19.46 | 122 48.97 | PV,MA | On beach along north side of island. Nursery area. |



Strait of Juan de Fuca-East

Map 7B: Dungeness Spit to Marrowstone Island



Strait of Juan de Fuca-East
Map 7B: Dungeness Spit to Marrowstone Island

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|------------------------------|-----------------|------------------|----------------|---|
| 219 | Graveyard Spit | 4809.65 | 12308.86 | PV | Beach areas around Graveyard Spit in Dungeness Bay. Nursery area. |
| 220 | Dungeness Spit End | 4811.07 | 12305.98 | PV | On beach at tip of Dungeness Spit. |
| 221 | Dungeness Bay Area | 4810.05 | 12308.56 | PV | Along beach on east side of Dungeness Bay. |
| 222 | Dungeness Bay Area | 4809.65 | 12309.34 | PV | Along north side of main channel in Dungeness Bay. |
| 223 | Grays Marsh (Kulakala Pt) | 4807.14 | 12303.59 | PV | Beach and shoal areas near Gray's Marsh (Kulakala Point). |
| 224 | Protection Is, Kanem Spit | 4807.13 | 12256.70 | PV | On beach and spit areas around Kanem Point. Nursery area. |
| 225 | Protection Island, Violet Pt | 4807.63 | 12254.47 | PV,MA | On beach area around Violet Point. Nursery area. |
| 230 | Kilisut Harbor Spit | 4805.32 | 12243.99 | PV | Along beach and spit at entrance into Kilisut Harbor. |
| 231 | E of Marrowstone Island | 4802.86 | 12240.72 | PV | Scattered intertidal rocks along northeast side of island. |
| 232 | E of Marrowstone Island | 4804.69 | 12241.11 | PV | Scattered intertidal rocks along southeast side of island. |
| 233 | Sequim Bay, Kiapot Point | 4804.74 | 12202.41 | PV | West end of Kiapot Point at entrance to Sequim Bay. |
| 234 | Discovery Bay Area | 4802.87 | 12252.28 | PV | Along beaches and spit areas on west side of Discovery Bay. |
| 235 | Klas/Colvos Rocks | 4857.75 | 12240.24 | PV | Intertidal shoals around Klas Rock. |
| 236 | Klas/Colvos Rocks | 4856.96 | 12239.96 | PV | Intertidal shoals and rocks around Colvos Rock. |
| 253 | Rocks of Tala Point | 4755.61 | 12239.21 | PV | Scattered intertidal rocks off Tala Point. |



Region 8: Hood Canal

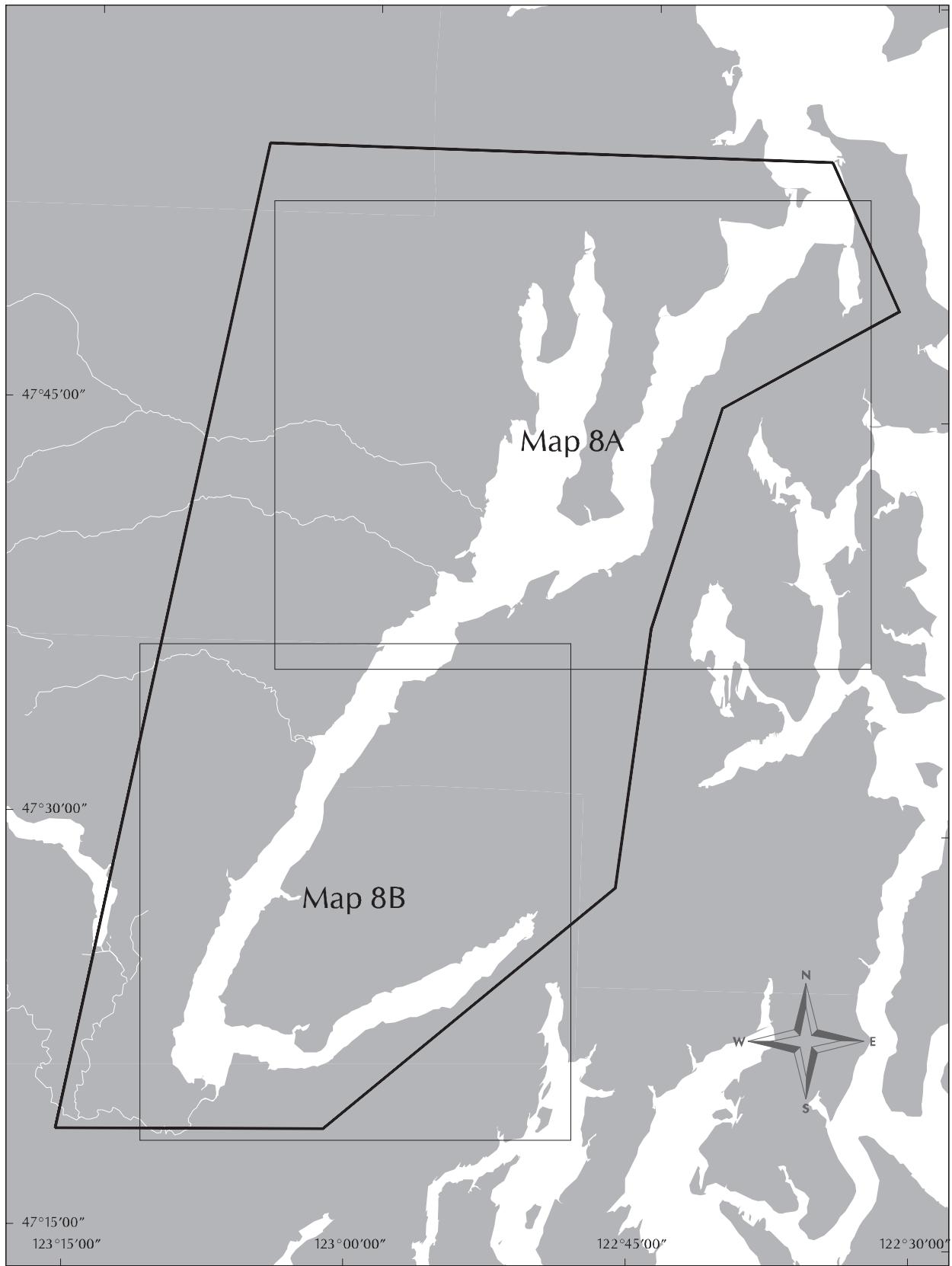
Use NOAA Charts 18440 (Puget Sound), 18441 (Puget Sound-northern part) and 18448 (Puget Sound-southern part) for navigation and bathymetry details.

Primary harbor seal haulout sites are located at the mouths of the Dosewallips, Duckabush, Hamma Hamma and Skokomish rivers, and are generally used at high tide when increasing water levels provide access to areas along river channels and sloughs. Additional haulout sites are also present on intertidal tideflats, rocks and reefs. Logbooms and floats are also used as haulout sites in this region. Peak counts occur during the primary pupping season (late July through September) and annual molt (September through November). Newborn pups have been reported as late as December and January in this region. No sea lion haulout sites are located in this region, although California sea lions may be seen rafted off river mouths seasonally.



Harbor seals hauled out along tidal channel at Dosewallips River, October 3, 1991.

Hood Canal Region 8



Region 8: Hood Canal

| <u>ID</u> | <u>Location</u> | <u>Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|------------------------|-------------|-----------------|------------------|----------------|--------------|------------|
| 237 | Port Gamble Bay | 08.02 | 4750.39 | 12234.90 | PV | <100 | ALL |
| 238 | Port Gamble Bay | 08.02 | 4750.01 | 12234.90 | PV | <100 | ALL |
| 239 | Quilcene Bay | 08.03 | 4748.86 | 12251.05 | PV | <100 | HIGH |
| 240 | Quilcene Bay | 08.03 | 4749.43 | 12251.47 | PV | <100 | HIGH |
| 241 | Quilcene Bay | 08.03 | 4747.55 | 12250.99 | PV | 100-500 | ALL |
| 242 | Dosewallips River | 08.04 | 4741.15 | 12253.75 | PV | 100-500 | HIGH |
| 243 | Dosewallips River | 08.04 | 4741.38 | 12253.65 | PV | <100 | HIGH |
| 244 | Duckabush River | 08.05 | 4738.93 | 12255.94 | PV | 100-500 | HIGH |
| 245 | Duckabush River | 08.05 | 4739.06 | 12255.87 | PV | <100 | HIGH |
| 246 | Hamma Hamma River | 08.06 | 4732.71 | 12302.18 | PV | 100-500 | HIGH |
| 247 | Jorsted Creek | 08.07 | 4731.72 | 12302.86 | PV | <100 | ALL |
| 248 | Skokomish River | 08.08 | 4720.57 | 12307.00 | PV | 100-500 | HIGH |
| 249 | Skokomish River | 08.08 | 4720.48 | 12307.36 | PV | 100-500 | HIGH |
| 250 | Belfair Floats | 08.09 | 4725.05 | 12252.31 | PV | <100 | ALL |
| 251 | Belfair Floats | 08.09 | 4724.44 | 12253.32 | PV | <100 | ALL |
| 252 | Belfair Floats | 08.09 | 4724.14 | 12253.69 | PV | <100 | ALL |
| 253 | Dabob Bay/Long Spit | 08.11 | 4750.86 | 12248.54 | PV | <100 | HIGH |
| 254 | Dabob Bay/Broad Spit | 08.12 | 4749.14 | 12249.33 | PV | <100 | HIGH |
| 256 | Dabob Bay/Pulali Point | 08.13 | 4744.22 | 12251.44 | PV | <100 | HIGH |

Region 8: Hood Canal

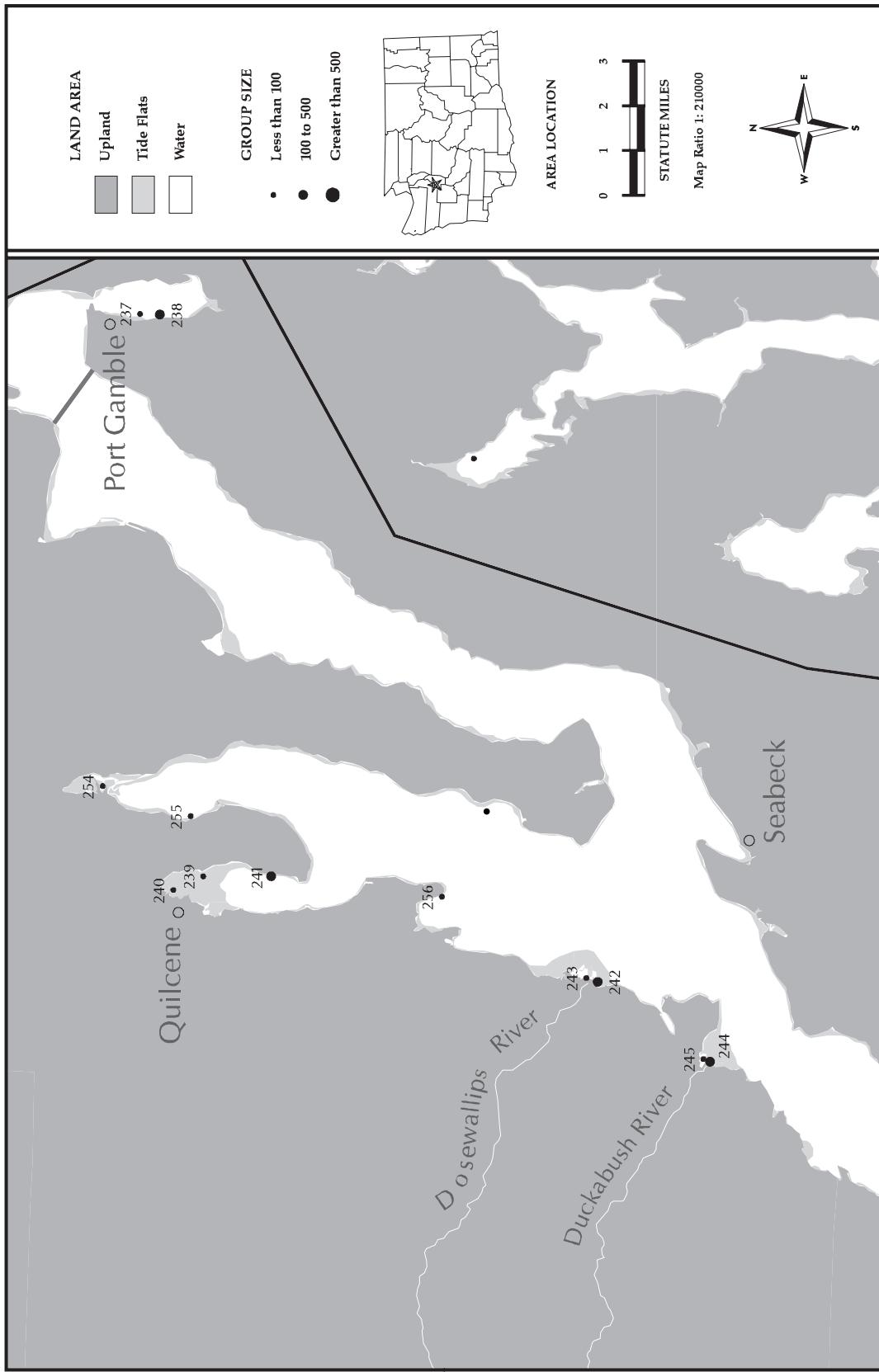
ID Description

- 237 North log booms along west side of Port Gamble Bay.
- 238 South log booms along west side of Port Gamble Bay.
- 239 Log booms on east side of bay.
- 240 Along channels during high tides.
- 241 On net pens and rafts along west side of Bolton Peninsula.
- 242 Along channels north of river mouth during high tides.
- 243 Areas along channels at mouth of river during high tides.
- 244 Areas along channels north of river mouth during high tides.
- 245 Along channels and beach areas north of river during high tides.
- 246 Along channels and beaches west of river mouth during high tides.
- 247 On log booms off Jorstad Creek.
- 248 Along channels off river mouth during high tides.
- 249 Along channels and beaches west of river mouth during high tides.
- 250 On rafts and floats along south side.
- 251 On rafts and floats along south side.
- 252 On rafts and floats along south side.
- 254 Beach and floats at Long Spit during high tides.
- 255 On rafts and floats on east side of Bolton Peninsula at Broad Spit.
- 256 Intertidal rocks off Pulali Point in Dabob Bay.



Hood Canal

Map 8A: Hood Canal-North



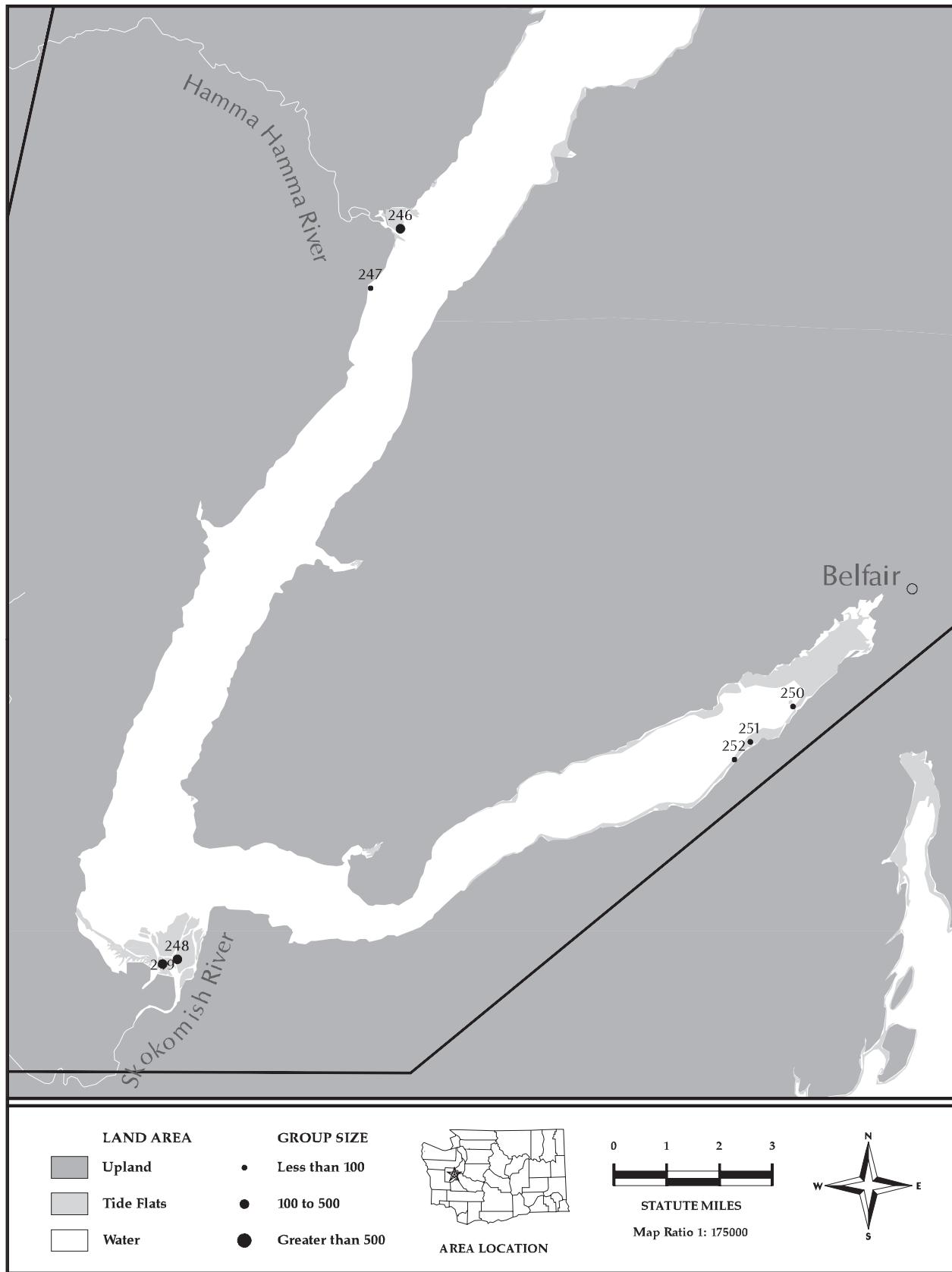
Hood Canal
Map 8A: Hood Canal-North

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|------------------------|-----------------|------------------|----------------|---|
| 237 | Port Gamble Bay | 47 50.39 | 122 34.90 | PV | North log booms along west side of Port Gamble Bay. |
| 238 | Port Gamble Bay | 47 50.01 | 122 34.90 | PV | South log booms along west side of Port Gamble Bay. |
| 239 | Quilcene Bay | 47 48.86 | 122 51.05 | PV | Log booms on east side of Quilcene Bay. |
| 240 | Quilcene Bay | 47 49.43 | 122 51.47 | PV | Along channels at river mouth during high tides. |
| 241 | Quilcene Bay | 47 47.55 | 122 50.99 | PV | On net pens and oyster floats on west side of Bolton Peninsula. |
| 242 | Dosewallips River | 47 41.15 | 122 53.75 | PV | Along channels north of river mouth at high tide. |
| 243 | Dosewallips River | 47 41.38 | 122 53.65 | PV | Areas along channels at mouth of river at high and low tide. |
| 244 | Duckabush River | 47 38.93 | 122 55.94 | PV | Areas along channels north of river mouth at high tide. |
| 245 | Duckabush River | 47 39.06 | 122 55.87 | PV | Areas along channel at mouth of river. |
| 254 | Dabob Bay/Long Spit | 47 50.86 | 122 48.54 | PV | Beach and floats at Long Spit during high tides. |
| 255 | Dabob Bay/Broad Spit | 47 49.14 | 122 49.33 | PV | On rafts and floats on east side of Bolton Peninsula at Broad Spit. |
| 256 | Dabob Bay/Pulali Point | 47 44.22 | 122 51.44 | PV | Intertidal rocks off Pulali Point in Dabob Bay. |



Hood Canal

Map 8B: Hood Canal-South



Hood Canal
Map 8B: Hood Canal-South

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|-------------------|-----------------|------------------|----------------|---|
| 246 | Hamma Hamma River | 4732.71 | 12302.18 | PV | Along channels and beach areas north of river during high tides. |
| 247 | Jorsted Creek | 4731.72 | 12302.86 | PV | On log booms off Jorstad Creek. |
| 248 | Skokomish River | 4720.57 | 12307.00 | PV | Along channels off river mouth during high tides. |
| 249 | Skokomish River | 4720.48 | 12307.36 | PV | Along channels and beaches west of river mouth during high tides. |
| 250 | Belfair Floats | 4725.05 | 12252.31 | PV | On rafts and floats along south side. |
| 251 | Belfair Floats | 4724.44 | 12353.32 | PV | On rafts and floats along south side. |
| 252 | Belfair Floats | 4724.14 | 12353.69 | PV | On rafts and floats along south side. |



Region 9: Eastern Bays

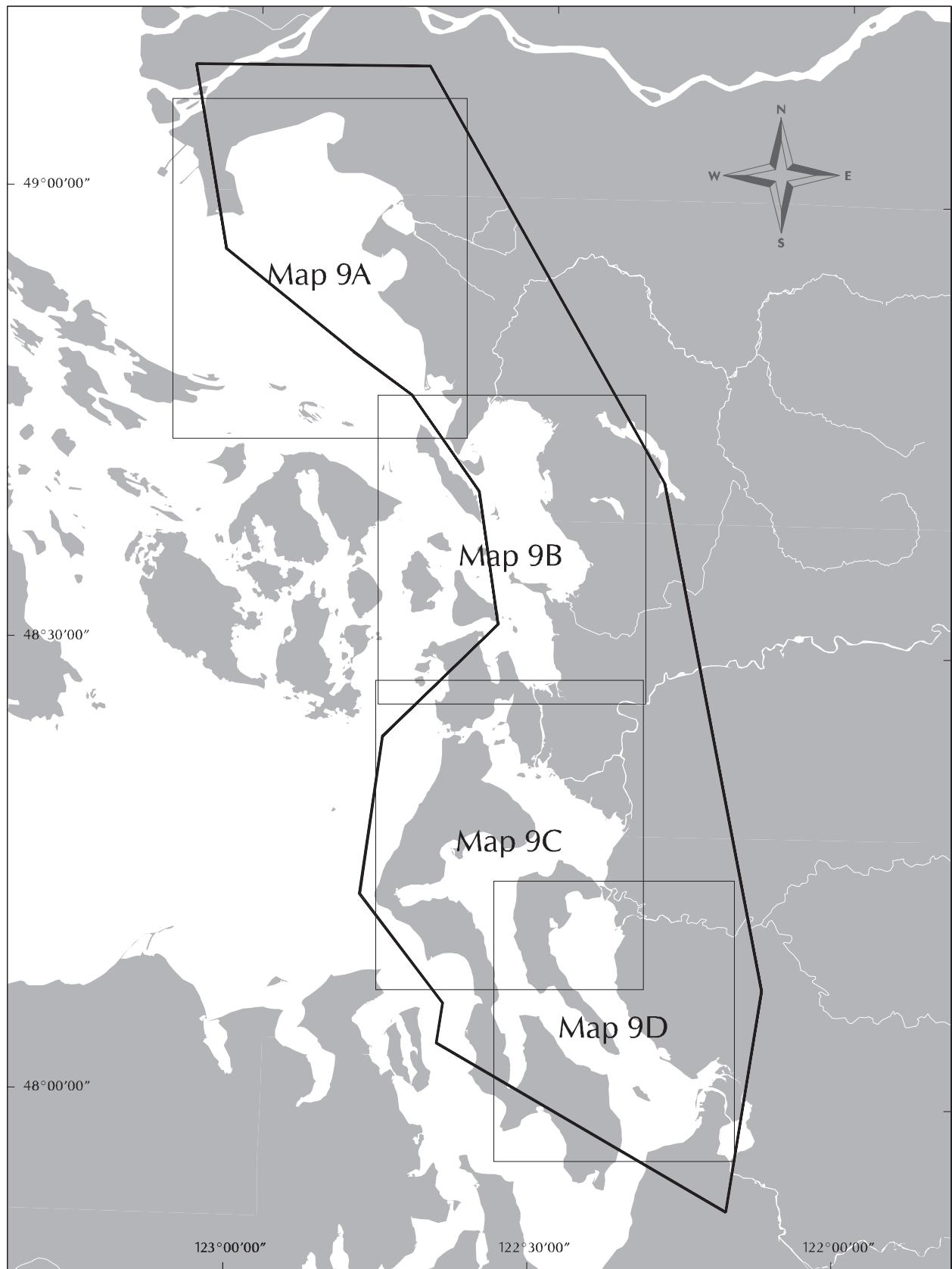
Use NOAA Charts 18421 (Strait of Juan de Fuca and Strait of Georgia/Drayton Harbor), 18441(Puget Sound-northern part) for navigation and bathymetry details.

Harbor seal haulout areas are located on intertidal mudflats, sandbars and along channels in all areas in this region. Large groups are present seasonally in Boundary Bay and Skagit Bay. Use of areas along river channels may be used seasonally during smelt and salmon runs. Logbooms and marina floats are also used by harbor seals in several areas as well. Peak counts are made during the pupping season (mid-June through mid-August) and annual molt (August through October). Primary California sea lion haulout area are located on logbooms at the Port of Everett, and is used from mid-September through May. Small numbers of sea lions may also be found on various navigation buoys in this region region as well.



Harbor seals hauled out on intertidal shoal off Pt. Brown, Skagit Bay, August 21, 1991.

Eastern Bays Region 9



Region 9: Eastern Bays

| <u>ID</u> | <u>Location</u> | <u>Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|-----------------------------|-------------|-----------------|------------------|----------------|--------------|------------|
| 257 | Point Roberts/SE Rocks | 09.02 | 49 58.46 | 123 01.13 | PV | <100 | LOW |
| 258 | West Boundary Bay | 09.03 | 49 02.63 | 123 00.31 | PV | <100 | LOW |
| 259 | Boundary Bay, off Runway | 09.04 | 49 02.45 | 122 59.37 | PV | 500> | LOW |
| 260 | E Boundary Bay (Mud Bay) | 09.05 | 49 02.83 | 122 55.57 | PV | 100-500 | LOW |
| 261 | E Boundary Bay (Mud Bay) | 09.05 | 49 04.19 | 122 53.78 | PV | <100 | LOW |
| 262 | Rocks off Kwomas Point | 09.06 | 49 01.74 | 122 52.52 | PV | <100 | LOW |
| 263 | Drayton Harbor | 09.07 | 49 58.30 | 122 44.00 | PV | <100 | LOW |
| 264 | Drayton Harbor | 09.07 | 48 58.73 | 122 45.07 | PV | <100 | LOW |
| 265 | Drayton Harbor | 09.08 | 48 59.11 | 122 46.42 | PV | 100-500 | ALL |
| 266 | Rocks off Birch Point | 09.09 | 48 56.92 | 122 49.24 | PV | <100 | LOW |
| 267 | Point Whitehorn | 09.10 | 48 53.05 | 122 47.05 | PV | <100 | LOW |
| 268 | Lummi Bay | 09.11 | 48 46.99 | 122 41.02 | PV | <100 | LOW |
| 269 | Bellingham Bay | 09.12 | 48 44.28 | 122 29.82 | PV | <100 | ALL |
| 270 | Bellingham Bay | 09.12 | 48 44.12 | 122 29.96 | PV | <100 | ALL |
| 271 | Bellingham Bay | 09.12 | 48 43.43 | 122 30.43 | PV | <100 | ALL |
| 272 | Spit N of Portage Bay | 09.13 | 48 43.61 | 122 37.84 | PV | <100 | LOW |
| 273 | Nooksack River Mouth | 09.14 | 48 46.09 | 122 35.90 | PV | <100 | LOW |
| 274 | Chuckanut Bay Area | 09.15 | 48 40.99 | 122 30.05 | PV | <100 | LOW |
| 275 | Rocks off Wildcat Cove | 09.16 | 48 39.22 | 122 29.73 | PV | <100 | LOW |
| 276 | Eliza Rocks | 09.17 | 48 38.63 | 122 34.60 | PV | 100-500 | LOW |
| 277 | Samish Bay Area | 09.18 | 48 33.57 | 122 28.14 | PV | <100 | LOW |
| 278 | Samish Bay Area | 09.19 | 48 34.34 | 122 27.59 | PV | 100-500 | LOW |
| 279 | Padilla Bay Area | 09.20 | 48 33.41 | 122 31.22 | PV | <100 | LOW |
| 280 | Padilla Bay Area | 09.21 | 48 32.34 | 122 30.76 | PV | 100-500 | LOW |
| 281 | Padilla Bay Area | 09.22 | 48 31.21 | 122 29.72 | PV | <100 | LOW |
| 282 | Padilla Bay Area | 09.23 | 48 28.84 | 122 29.20 | PV | <100 | LOW |
| 283 | Padilla Bay Area | 09.23 | 48 28.56 | 122 28.99 | PV | <100 | LOW |
| 284 | Padilla Bay Area | 09.23 | 48 28.55 | 122 29.36 | PV | <100 | LOW |
| 285 | Padilla Bay Area | 09.24 | 48 28.37 | 122 30.88 | PV | 100-500 | LOW |
| 286 | Padilla Bay Area | 09.24 | 48 28.10 | 122 30.94 | PV | <100 | LOW |
| 287 | Padilla Bay Area | 09.24 | 48 29.03 | 122 30.80 | PV | <100 | LOW |
| 288 | Padilla Bay Area | 09.25 | 48 29.10 | 122 32.55 | PV | <100 | LOW |
| 289 | Padilla Bay Area | 09.25 | 48 29.16 | 122 32.35 | PV | <100 | LOW |
| 290 | Fidalgo Bay | 09.27 | 48 29.74 | 122 35.94 | PV | <100 | ALL |
| 291 | Fidalgo Bay | 09.27 | 48 29.89 | 122 35.06 | PV | 100-500 | ALL |
| 292 | Similk Bay | 09.28 | 48 26.45 | 122 33.44 | PV | <100 | ALL |
| 293 | Seal Rocks | 09.29 | 48 22.46 | 122 33.71 | PV | <100 | LOW |
| 294 | N Skagit Bay | 09.30 | 48 21.47 | 122 31.30 | PV | <100 | LOW |
| 295 | S Skagit Bay Area | 09.31 | 48 17.09 | 122 23.03 | PV | <100 | LOW |
| 296 | S Skagit Bay Area | 09.31 | 48 17.83 | 122 24.53 | PV | <100 | LOW |
| 297 | S Skagit Bay Area | 09.31 | 48 17.53 | 122 24.17 | PV | <100 | LOW |
| 298 | S Skagit Bay Area | 09.31 | 48 17.10 | 122 24.22 | PV | <100 | LOW |
| 299 | S Skagit Bay Area | 09.31 | 48 17.86 | 122 23.16 | PV | <100 | LOW |
| 300 | Skagit Bay/N of Point Brown | 09.32 | 48 16.30 | 122 26.54 | PV | 100-500 | LOW |
| 301 | Port Susan/Livingston Bay | 09.33 | 48 13.33 | 122 25.87 | PV | <100 | LOW |
| 302 | Port Susan/Livingston Bay | 09.34 | 48 12.59 | 122 23.75 | PV | 100-500 | LOW |
| 303 | Port Susan/Livingston Bay | 09.34 | 48 12.03 | 122 23.32 | PV | <100 | LOW |
| 304 | Gedney Island marina | 09.35 | 48 01.25 | 122 19.19 | PV | <100 | ALL |
| 305 | Snohomish River log booms | 09.36 | 48 02.61 | 122 12.34 | PV | <100 | ALL |
| 306 | Everett Harbor Area | 09.37 | 47 59.60 | 122 13.28 | ZC,PV | 100-500 | ALL |
| 307 | Baby Island | 09.38 | 48 05.98 | 122 31.56 | PV | <100 | LOW |
| 308 | Penn Cove/Oak Harbor | 09.39 | 48 16.07 | 122 37.37 | PV | <100 | LOW |
| 309 | Everett Harbor Bouys | 09.40 | 47 59.45 | 122 14.91 | ZC | <10 | ALL |

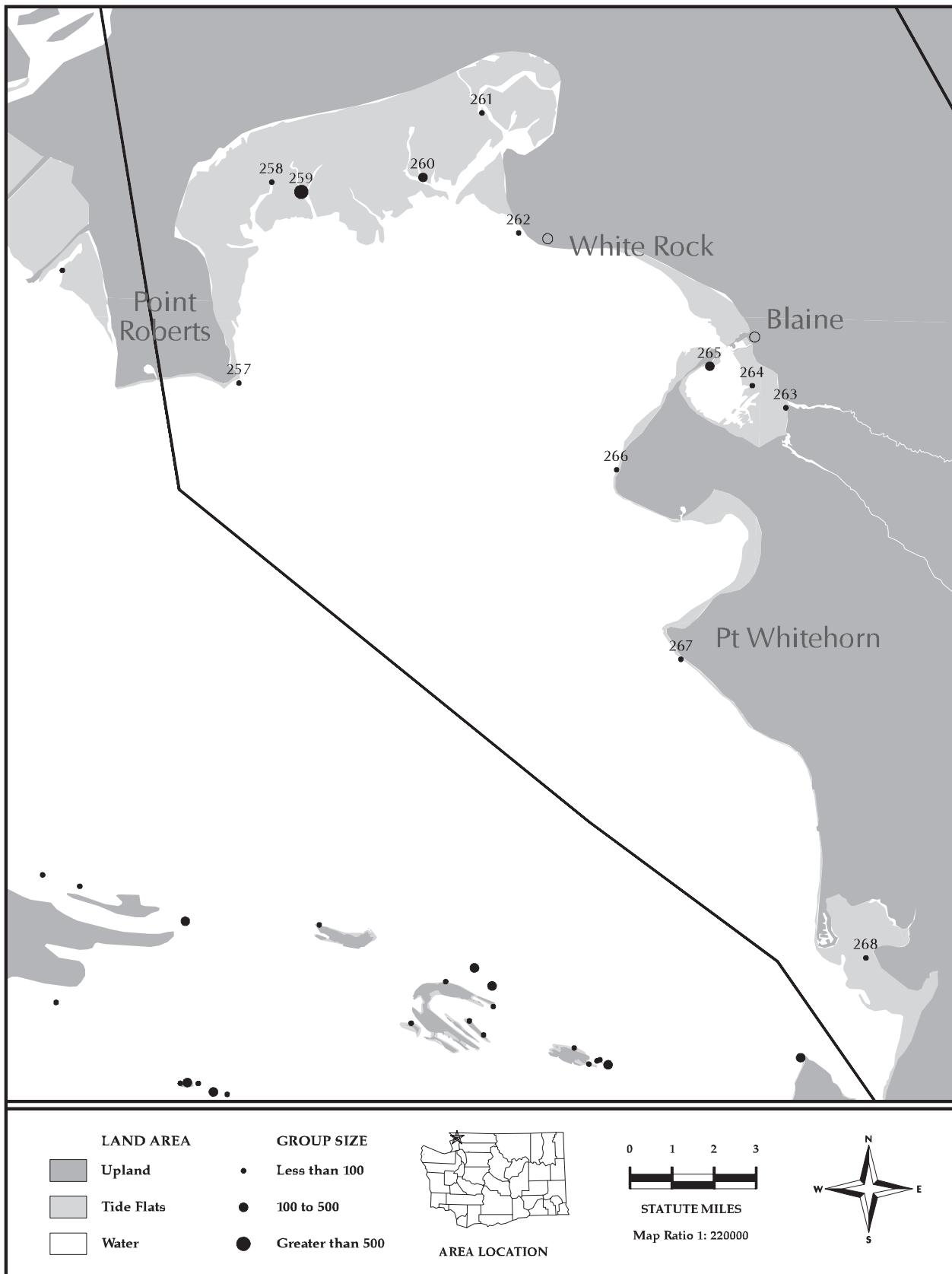
Region 9: Eastern Bays

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 257 | Scattered intertidal rocks off southeast corner of Point Roberts |
| 258 | Along channels in northwest Boundary Bay. Nursery area. |
| 259 | Main channel south of Boundary Bay airport. Nursery area. |
| 260 | Channels northwest of Crescent Beach in Mud Bay. Nursery area. |
| 261 | Channels in Mud Bay. Nursery area. |
| 262 | Scattered intertidal rocks off Kwomais Point. |
| 263 | Channels along Dakota Creek in Drayton Harbor. |
| 264 | On intertidal shoals and tideflats in central Drayton Harbor. |
| 265 | On floats at Semiahmoo Marina in Drayton Harbor. |
| 266 | Scattered intertidal rocks off Birch Point. |
| 267 | Scattered intertidal rocks off Point Whitehorn. |
| 268 | Intertidal areas and shoals in Lummi Bay. |
| 269 | On log booms in Bellingham Bay. |
| 270 | On log booms in Bellingham Bay. |
| 271 | On log booms in Bellingham Bay. |
| 272 | Beach areas along spit north of Portage Bay. |
| 273 | On shoals and along channels at mouth of Nooksack River. |
| 274 | Scattered intertidal rocks and reefs in Chuckanut Bay. |
| 275 | Scattered intertidal rocks and reefs off Larabee State Park. |
| 276 | Intertidal rocks and reef areas off southeast corner of Eliza Island. |
| 277 | Along channels at mouth of Samish River. |
| 278 | Along channels north of Edison Slough, Samish Bay. |
| 279 | Along channels in north Padilla Bay. |
| 280 | Along channels east of Saddlebag Island in Padilla Bay. Nursery area. |
| 281 | Along channels of Joe Leary Slough in Padilla Bay. |
| 282 | Along channels in southeast Padilla Bay. |
| 283 | Along channels in southeast Padilla Bay. Nursery area. |
| 284 | Along channels in southeast Padilla Bay. Nursery area. |
| 285 | Along channels east of Swinomish Slough in Padilla Bay. |
| 286 | Along channels east of Swinomish Slough in Padilla Bay. Nursery area. |
| 287 | Along channels east of Swinomish Slough in Padilla Bay. Nursery area. |
| 288 | Along channels west of Swinomish Slough in Padilla Bay. Nursery area. |
| 289 | Along channels west of Swinomish Slough in Padilla Bay. Nursery area. |
| 290 | On log booms at mill on west side of Fidalgo Bay. |
| 291 | On log booms anchored in middle of Fidalgo Bay. |
| 292 | On log booms in Similk Bay. |
| 293 | On intertidal rocks and reef area around Seal Rocks. |
| 294 | Along channels south of Goat Island in Skagit Bay. |
| 295 | Along channels off south arms of Skagit River in Skagit Bay. Nursery area. |
| 296 | Along channels off south arms of Skagit River in Skagit Bay. Nursery area. |
| 297 | Along channels off south arms of Skagit River in Skagit Bay. Nursery area. |
| 298 | Along channels off south arms of Skagit River in Skagit Bay. Nursery area. |
| 299 | Along channels off south arms of Skagit River in Skagit Bay. Nursery area. |
| 300 | On intertidal shoals north of Point Brown in Skagit Bay. |
| 301 | Along channels in Livingston Bay. |
| 302 | Along channels of South Pass into Port Susan. |
| 303 | Along channels off mouth of Stillaguamish River in Port Susan. |
| 304 | On barge and log boom breakwater at Gedney Island marina. |
| 305 | Log booms along Snohomish River. |
| 306 | Log booms at Port of Everett/Navy Homeport. |
| 307 | Beaches and intertidal areas around Baby Island. |
| 308 | Scattered intertidal rocks and reef areas near Oak Harbor. |
| 309 | Everett Harbor buoy. |



Eastern Bays

Map 9A: Boundary Bay to Lummi Bay



Eastern Bays

Map 9A: Boundary Bay to Lummi Bay

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|---------------------------|-----------------|------------------|----------------|---|
| 257 | Point Roberts/SE rocks | 4858.46 | 12301.13 | PV | Scattered intertidal rocks off southeast corner of Point Roberts. |
| 258 | NW Boundary Bay | 4902.63 | 12300.31 | PV | Along channels in NW Boundary Bay. Nursery area. |
| 259 | Boundary Bay, off airport | 4902.45 | 12259.37 | PV | Main channel off runway at Boundary Bay airport. Nursery area. |
| 260 | E Boundary Bay/Mud Bay | 4902.83 | 12255.57 | PV | Channels in Mud Bay NW of Crescent Beach. Nursery area. |
| 261 | E Boundary Bay/Mud Bay | 4904.19 | 12253.78 | PV | Along channels in Mud Bay. Nursery area. |
| 262 | Rocks off Kwoomais Point | 4901.74 | 12252.52 | PV | Scattered intertidal rocks off Kwoomais Point. |
| 263 | Drayton Harbor | 4858.30 | 12244.00 | PV | Along channels off Dakota Creek. |
| 264 | Drayton Harbor | 4858.73 | 12245.07 | PV | On shoals and channels in central Drayton Harbor. |
| 265 | Drayton Harbor | 4859.11 | 12246.42 | PV | On floats at Semiahmoo Marina. |
| 266 | Rocks off Birch Point | 4856.92 | 12249.24 | PV | Scattered intertidal rocks off Birch Point. |
| 267 | Point Whitehorn | 4853.05 | 12247.05 | PV | Scattered intertidal rocks off Point Whitehorn. |
| 268 | Lummi Bay | 4846.99 | 12241.02 | PV | Intertidal areas and tideflats in Lummi Bay. |



Harbor seals on marina floats at Semiahmoo, August 22, 1991.

Eastern Bays

Map 9B: Bellingham Bay to Padilla Bay



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Seal and Sea Lion Atlas

Eastern Bays

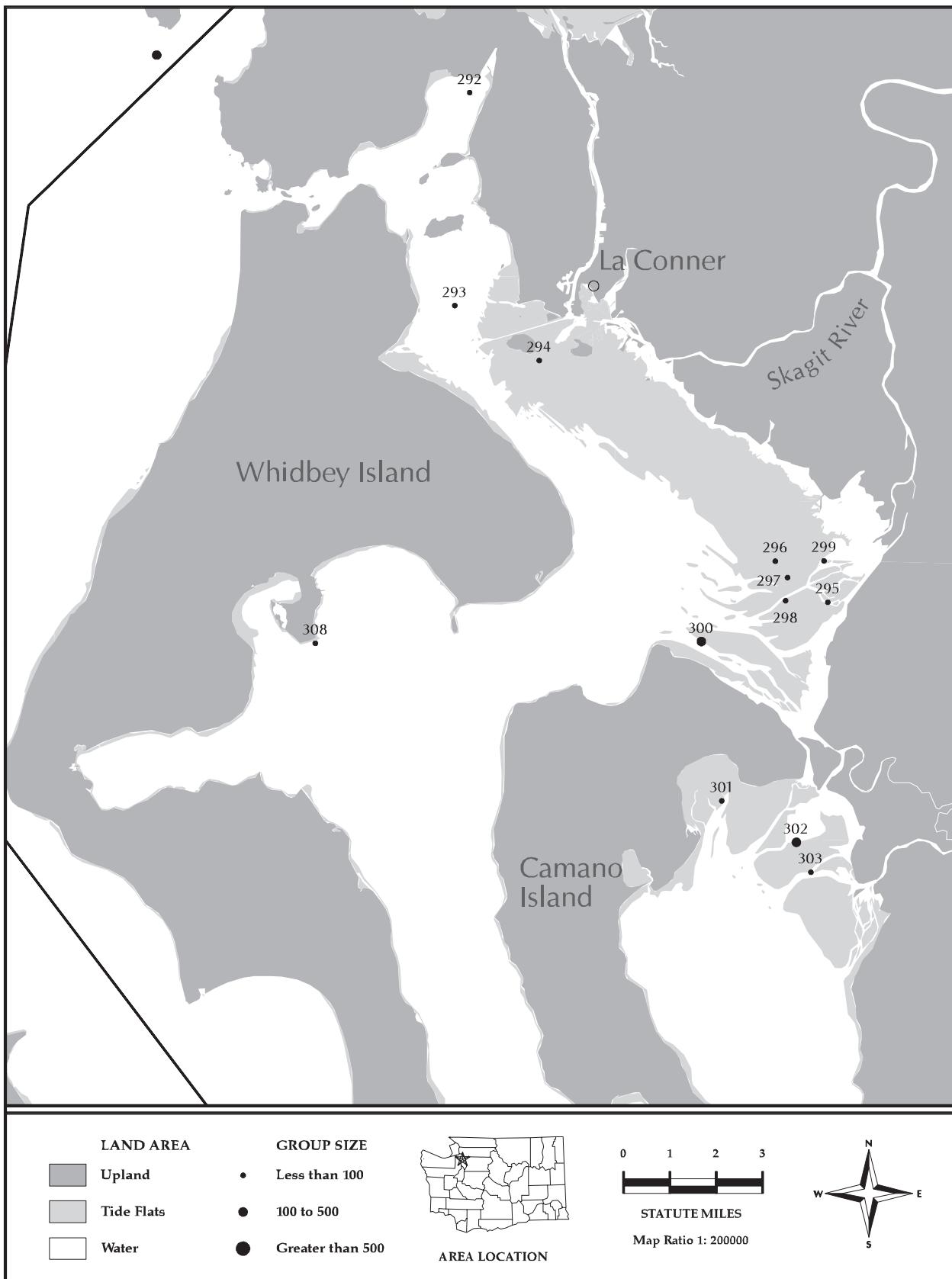
Map 9B: Bellingham Bay to Padilla Bay

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|------------------------|-----------------|------------------|----------------|--|
| 269 | Bellingham Bay | 4844.28 | 12229.82 | PV | On log booms in Bellingham Bay. |
| 270 | Bellingham Bay | 4844.12 | 12229.96 | PV | On log booms in Bellingham Bay. |
| 271 | Bellingham Bay | 4843.43 | 12230.43 | PV | On log booms in Bellingham Bay. |
| 272 | Spit N of Portage Bay | 4843.61 | 12237.84 | PV | Beach areas along spit to north of Portage Bay. |
| 273 | Nooksack River Mouth | 4846.09 | 12235.90 | PV | On shoals and along channels at mouth of Nooksack River. |
| 274 | Chuckanut Bay Area | 4840.99 | 12230.05 | PV | Scattered intertidal rocks and reefs in Chuckanut Bay. |
| 275 | Rocks off Wildcat Cove | 4839.22 | 12229.73 | PV | Scattered intertidal rocks and reefs off Larabee State Park. |
| 276 | Eliza Rocks | 4838.63 | 12234.60 | PV | Intertidal rocks and reef areas off southeast end of Eliza Island. |
| 277 | Samish Bay Area | 4833.57 | 12228.14 | PV | Along channels at mouth of Samish River. |
| 278 | Samish Bay Area | 4834.34 | 12227.59 | PV | Along channels north of Edison Slough. |
| 279 | Padilla Bay Area | 4833.41 | 12231.22 | PV | Along channels in north Padilla Bay. |
| 280 | Padilla Bay Area | 4832.34 | 12230.76 | PV | Along channels east of Saddlebag Island. Nursery area. |
| 281 | Padilla Bay Area | 4831.21 | 12229.72 | PV | Along channels of Joe Leary Slough. |
| 282 | Padilla Bay Area | 4828.84 | 12229.20 | PV | Along channels in southeast Padilla Bay. |
| 283 | Padilla Bay Area | 4828.56 | 12228.99 | PV | Along channels in southeast Padilla Bay. Nursery area. |
| 284 | Padilla Bay Area | 4828.55 | 12229.36 | PV | Along channels in southeast Padilla Bay. Nursery area. |
| 285 | Padilla Bay Area | 4828.37 | 12230.88 | PV | Along channels east of Swinomish Slough. |
| 286 | Padilla Bay Area | 4828.10 | 12230.94 | PV | Along channels east of Swinomish Slough. Nursery area. |
| 287 | Padilla Bay Area | 4829.03 | 12230.80 | PV | Along channels east of Swinomish Slough. Nursery area. |
| 288 | Padilla Bay Area | 4829.10 | 12232.55 | PV | Along channels west of Swinomish Slough. Nursery area. |
| 289 | Padilla Bay Area | 4829.16 | 12232.35 | PV | Along channels west of Swinomish Slough. Nursery area. |
| 290 | Fidalgo Bay | 4829.74 | 12235.94 | PV | On log booms at mill on west side of Fidalgo Bay. |
| 291 | Fidalgo Bay | 4829.89 | 12235.06 | PV | On log booms anchored in middle of Fidalgo Bay. |



Eastern Bays

Map 9C: Skagit Bay to Port Susan



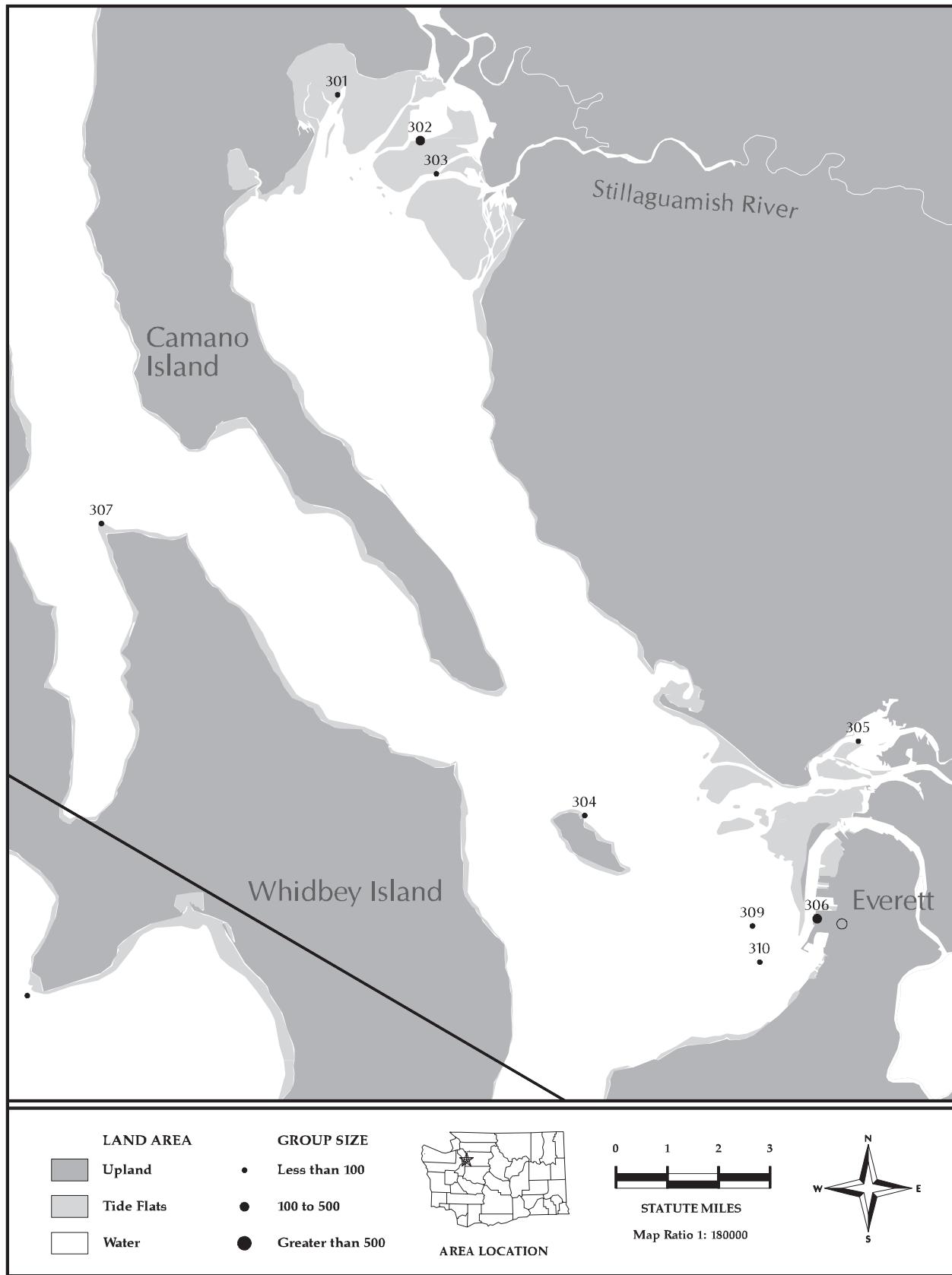
Eastern Bays
Map 9C: Skagit Bay to Port Susan

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|---|
| 292 | Similk Bay | 48 26.45 | 122 33.44 | PV | On log booms in Similk Bay. |
| 293 | Seal Rocks | 48 22.46 | 122 33.71 | PV | On intertidal rocks and reef area around Seal Rocks. |
| 294 | N Skagit Bay | 48 21.47 | 122 31.30 | PV | Along channels south of Goat Island in Skagit Bay. |
| 295 | S Skagit Bay Area | 48 17.09 | 122 23.03 | PV | Along channels off south arm of Skagit River. Nursery area. |
| 296 | S Skagit Bay Area | 48 17.83 | 122 24.53 | PV | Along channels off south arm of Skagit River. Nursery area. |
| 297 | S Skagit Bay Area | 48 17.53 | 122 24.17 | PV | Along channels off south arm of Skagit River. Nursery area. |
| 298 | S Skagit Bay Area | 48 17.10 | 122 24.22 | PV | Along channels off south arm of Skagit River. Nursery area. |
| 299 | S Skagit Bay Area | 48 17.86 | 122 23.16 | PV | Along channels off south arm of Skagit River. Nursery area. |
| 300 | Skagit Bay/N of Pt Brown | 48 16.30 | 122 26.54 | PV | On shoals north of Point Brown. |
| 301 | Port Susan/Livingston Bay | 48 13.33 | 122 25.87 | PV | Along channels in Livingston Bay. |
| 302 | Port Susan/Stillaguamish | 48 12.59 | 122 23.75 | PV | Along channels of South Pass into Skagit Bay. |
| 303 | Port Susan/Stillaguamish | 48 12.03 | 122 23.32 | PV | Along channels off mouth of Stillaguamish River. |
| 308 | Penn Cove/Oak Harbor | 48 16.07 | 122 37.37 | PV | Scattered rocks and intertidal areas near Oak Harbor. |



Eastern Bays

Map 9D: Port Susan to Everett



Eastern Bays
Map 9D: Port Susan to Everett

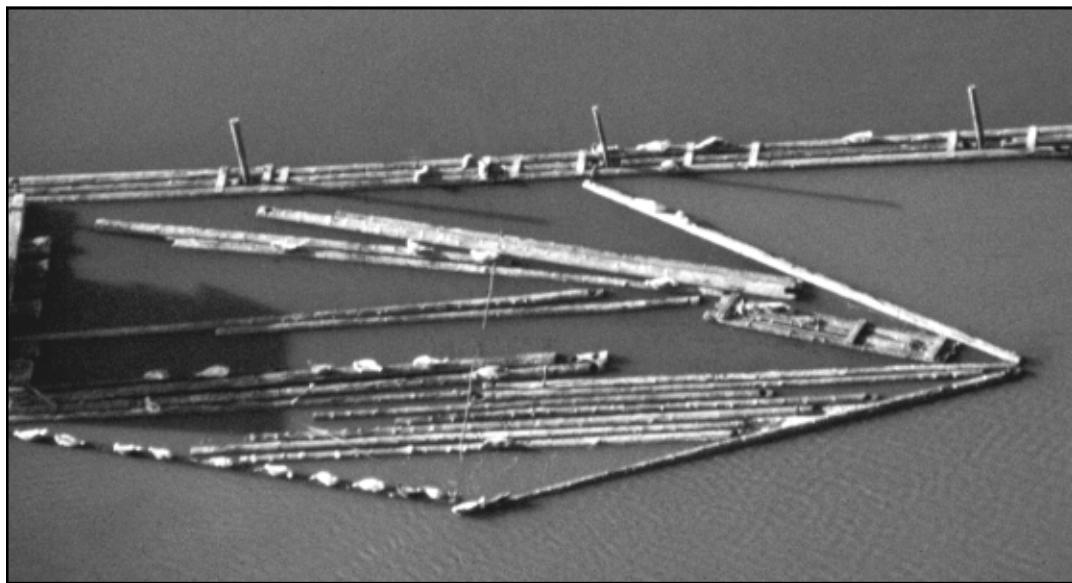
| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|---|
| 301 | Port Susan/Livingston Bay | 48 13.33 | 122 25.87 | PV | Along channels in Livingston Bay. |
| 302 | Port Susan/Stillaguamish | 48 12.59 | 122 23.75 | PV | Along channels of South Pass into Skagit Bay. |
| 303 | Port Susan/Stillaguamish | 48 12.03 | 122 23.32 | PV | Along channels off mouth of Stillaguamish River. |
| 304 | Gedney Island Marina | 48 1.25 | 122 19.19 | PV | On barge and log booms at entrance to Gedney Island marina. |
| 305 | Snohomish R Log Booms | 48 2.61 | 122 12.34 | PV | Log booms at mouth of Snohomish River. |
| 306 | Everett Harbor Area | 47 59.60 | 122 13.28 | ZC,PV | Log boom areas at the Port of Everett. |
| 307 | Baby Island | 48 5.98 | 122 31.56 | PV | Beaches and intertidal areas around Baby Island. |
| 309 | Everett Harbor Bouys | 47 59.45 | 122 14.91 | ZC | Everett Harbor bouy. |
| 310 | Everett Harbor Bouys | 47 58.84 | 122 14.70 | ZC | Everett Harbor bouy. |



Region 10: Puget Sound

Use NOAA Charts 18440 (Puget Sound), 18441 (Puget Sound-northern part), and 18448 (Puget Sound-southern part) for navigation and bathymetry details.

The largest harbor seal haulout sites are located at Gertrude Island, Woodard Bay and Nisqually River in southern Puget Sound. Additional harbor seal haulout sites are scattered throughout the region on intertidal rocks and reefs, logbooms, and recreational floats as well. Peak harbor seal numbers are present on haulout sites during the pupping season (July through early September) and annual molt (September through November). The main California sea lion haulout and rafting area is located near the Shilshole Bay Marina. Small numbers of sea lions (mostly California sea lions) are also regularly found on navigation buoys from the Nisqually Delta to Port Townsend.



Harbor seals hauled out on logbooms at Woodard Bay, December 2, 1986.

Puget Sound Region 10



Region 10: Puget Sound

| <u>ID</u> | <u>Location</u> | <u>Survey</u> | <u>Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|----------------------------|---------------|-------------|-----------------|------------------|----------------|--------------|------------|
| | | | | | | | | |
| 311 | Liberty Bay/Poulsbo Marina | 10.01 | 4743.85 | 122 38.81 | PV | <100 | ALL | |
| 312 | Blakely Rocks | 10.02 | 4735.68 | 122 28.76 | PV | <100 | LOW | |
| 313 | Cutts Island | 10.03 | 47 19.34 | 122 41.11 | PV | 100-500 | LOW | |
| 314 | Horsehead Bay Floats | 10.04 | 47 17.45 | 122 41.08 | PV | <100 | ALL | |
| 315 | Wykoff Shoals | 10.05 | 4714.29 | 122 42.61 | PV | <100 | LOW | |
| 316 | Gertrude Island | 10.06 | 47 12.95 | 122 39.61 | PV | 500> | LOW | |
| 317 | Eagle Island Area | 10.07 | 47 11.35 | 122 41.67 | PV | 100-500 | LOW | |
| 318 | Eagle Island Area | 10.07 | 47 11.54 | 122 42.04 | ZC | <10 | ALL | |
| 319 | Nisqually Delta Area | 10.08 | 4706.02 | 122 41.96 | PV | 100-500 | LOW | |
| 320 | Nisqually Delta Bouy | 10.08 | 4706.84 | 122 41.78 | ZC | <10 | ALL | |
| 321 | Woodard Bay | 10.09 | 4708.32 | 122 50.29 | PV | 100-500 | ALL | |
| 322 | McMicken Island | 10.10 | 4714.78 | 122 51.83 | PV | <100 | LOW | |
| 323 | Totten Inlet Area | 10.11 | 4707.99 | 123 01.12 | PV | <100 | ALL | |
| 324 | Totten Inlet Area | 10.11 | 4708.87 | 122 58.38 | PV | <100 | ALL | |
| 325 | Totten Inlet Area | 10.11 | 4708.99 | 122 58.03 | PV | <100 | ALL | |
| 326 | Totten Inlet Area | 10.11 | 4708.05 | 123 00.17 | PV | <100 | ALL | |
| 327 | Budd Inlet Area | 10.12 | 4704.30 | 122 55.07 | PV | <100 | ALL | |
| 328 | Budd Inlet Area | 10.12 | 4703.99 | 122 54.28 | PV | <100 | ALL | |
| 329 | Eld Inlet Area | 10.13 | 4704.16 | 123 00.58 | PV | <100 | ALL | |
| 330 | Eld Inlet Area | 10.13 | 4705.84 | 122 58.94 | PV | <100 | ALL | |
| 331 | Eld Inlet Area | 10.13 | 4705.57 | 122 57.74 | PV | <100 | ALL | |
| 332 | Eld Inlet Area | 10.13 | 4705.80 | 122 57.45 | PV | <100 | ALL | |
| 333 | Hammersly Inlet/Shelton | 10.14 | 4712.65 | 123 04.99 | PV | <100 | ALL | |
| 334 | Hammersly Inlet/Shelton | 10.14 | 4713.66 | 123 02.71 | PV | <100 | ALL | |
| 335 | Rosedale Beach Floats | 10.15 | 4720.17 | 122 39.63 | PV | <100 | ALL | |
| 336 | Edmonds Wreck/Scuba Float | 10.16 | 4748.89 | 122 22.96 | ZC,PV | <100 | ALL | |
| 337 | Bremerton/Dyes Inlet | 10.17 | 4735.45 | 122 40.90 | PV | <100 | ALL | |
| 338 | Commencement Bay | 10.18 | 47 17.51 | 122 24.76 | PV,ZC | <100 | ALL | |
| 339 | Commencement Bay | 10.18 | 47 17.36 | 122 24.59 | PV | <100 | ALL | |
| 340 | Shilshole Bay Area | 10.19 | 4741.11 | 122 24.38 | ZC | <10 | ALL | |
| 341 | Shilshole Bay Area | 10.19 | 4740.69 | 122 24.67 | ZC | <100 | ALL | |
| 342 | NW McNeil Island Bouy | 10.20 | 47 14.27 | 122 41.06 | ZC | <10 | ALL | |
| 343 | NE McNeil/Hyde Point Bouy | 10.21 | 4713.11 | 122 38.51 | ZC | <10 | ALL | |
| 344 | Toliva Shoals Bouy | 10.22 | 4712.15 | 122 36.25 | ZC,EJ | <10 | ALL | |
| 345 | Yellow 'TC' Bouy | 10.23 | 4719.42 | 122 27.35 | ZC | <10 | ALL | |
| 346 | Yellow 'TB' Bouy | 10.24 | 4723.11 | 122 21.11 | ZC | <10 | ALL | |
| 347 | Yellow 'TA' Bouy | 10.25 | 4726.87 | 122 24.11 | ZC | <10 | ALL | |
| 348 | Yellow 'T' Bouy | 10.26 | 4734.54 | 122 26.96 | ZC | <10 | ALL | |
| 349 | West Point Bouy | 10.27 | 4739.60 | 122 26.21 | ZC | <10 | ALL | |
| 350 | Yellow 'SG' Bouy | 10.28 | 4739.71 | 122 27.80 | ZC | <10 | ALL | |
| 351 | Meadow Pt Bouy | 10.29 | 4741.80 | 122 24.46 | ZC | <10 | ALL | |
| 352 | Yellow 'SF' Bouy | 10.30 | 4745.91 | 122 26.17 | ZC | <10 | ALL | |
| 353 | Possession Point Bouy | 10.31 | 4753.84 | 122 23.05 | ZC | <10 | ALL | |
| 354 | Scatchet Head Bouy | 10.32 | 4754.56 | 122 26.14 | ZC | <10 | ALL | |
| 355 | Yellow 'SE' Bouy | 10.33 | 4755.48 | 122 29.59 | ZC | <10 | ALL | |
| 356 | Double Bluff Bouy | 10.34 | 4757.98 | 122 33.12 | ZC | <10 | ALL | |
| 357 | Yellow 'SD' Bouy | 10.35 | 4757.97 | 122 34.73 | ZC | <10 | ALL | |
| 358 | Foulweather Bluff Bouy | 10.36 | 4756.80 | 122 36.12 | ZC | <10 | ALL | |
| 359 | Yellow 'SC' Bouy | 10.37 | 4801.87 | 122 38.14 | ZC | <10 | ALL | |
| 360 | Restoration Point Bouy | 10.38 | 4735.02 | 122 28.54 | ZC | <10 | ALL | |
| 361 | Rich Passage Bouy | 10.39 | 4734.07 | 122 31.28 | ZC | <10 | ALL | |
| 362 | Rich Passage Bouy | 10.39 | 4734.56 | 122 32.06 | ZC | <10 | ALL | |

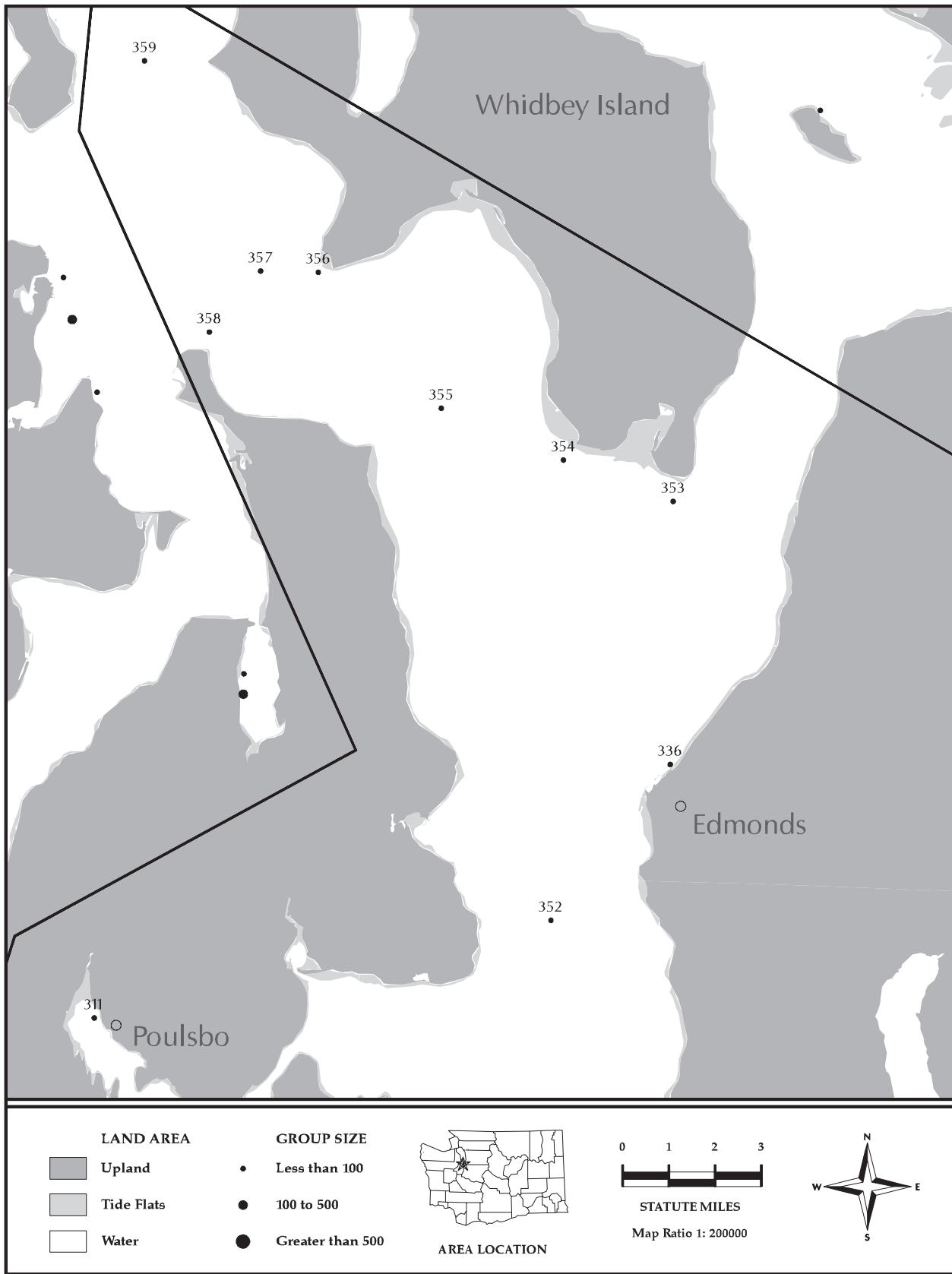
Region 10: Puget Sound

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 311 | On floats and log booms at the Poulsbo marina. |
| 312 | On intertidal rocks and reef areas around Blakely Rocks. |
| 313 | On spit on north end of island. |
| 314 | On floats and rafts in Horsehead Bay. |
| 315 | On intertidal areas around Wykoff Shoals. |
| 316 | Along beaches and intertidal areas around island. Nursery area. |
| 317 | On beach and shoals around Eagle Island. |
| 318 | On green bouy west of Eagle Island. |
| 319 | Along channels at mouth of river during high tides. |
| 320 | On green bouy off Nisqually Delta. |
| 321 | On log booms in Woodard Bay (at old Weyerhauser site). |
| 322 | Beach and intertidal areas around island. |
| 323 | On rafts and floats on west side of inlet. |
| 324 | On rafts and log booms on east side of inlet. |
| 325 | On log booms on east side of inlet. |
| 326 | On rafts and net pens off Gallager Cove. |
| 327 | On log booms on west side of Budd Inlet. |
| 328 | On shoal area west of Priest Point State Park. |
| 329 | On rafts and floats in Mud Bay. |
| 330 | On rafts and floats on west side of Eld Inlet. |
| 331 | On rafts and floats on east side of Eld Inlet. |
| 332 | On rafts and float on east side of Eld Inlet. |
| 333 | On log booms off mill at Shelton. |
| 334 | On log booms in Chapman Bay. |
| 335 | On rafts and floats off Rosedale. |
| 336 | On rafts and floats north of ferry dock. |
| 337 | On rafts and floats in Dyes Inlet. |
| 338 | On bouys and floats in northeast Commencement Bay. |
| 339 | On log booms in northeast Commencement Bay. |
| 340 | On floats and bouys of Shilshole Bay jetty. |
| 341 | On south tip of Shilshole Bay jetty. |
| 342 | On white mooring bouy off northwest side of McNeil Island. |
| 343 | On white mooring bouy off Hyde Point on northeast side of McNeil Island. |
| 344 | On Toliva Shoals bouy. |
| 345 | On yellow 'TC' bouy off southeast Maury Island. |
| 346 | On yellow 'TB' bouy off Pt. Robinson. |
| 347 | On yellow 'TA' bouy off Three Tree Point. |
| 348 | On yellow 'T' bouy off Alki Point. |
| 349 | On green bouy just off West Point. |
| 350 | On yellow 'SG' bouy between West Point and Skiff Point. |
| 351 | On green Meadow Point bouy. |
| 352 | On yellow 'SF' bouy east of Jefferson Head. |
| 353 | On green bouy off Possession Point. |
| 354 | On red Scatchet Head bouy. |
| 355 | On yellow 'SE' bouy off Point No Point. |
| 356 | On green bouy off Double Bluff. |
| 357 | On yellow 'SD' bouy just north of Foulweather Bluff. |
| 358 | On red bouy off Foulweather Bluff. |
| 359 | On yellow 'SC' bouy west of Bush Point. |
| 360 | On red bouy off Restoration Point. |
| 361 | On red '4' bouy off Orchard Point. |
| 362 | On red bouy in Rich Passage. |



Puget Sound

Map 10A: Whidbey Island to Poulsbo

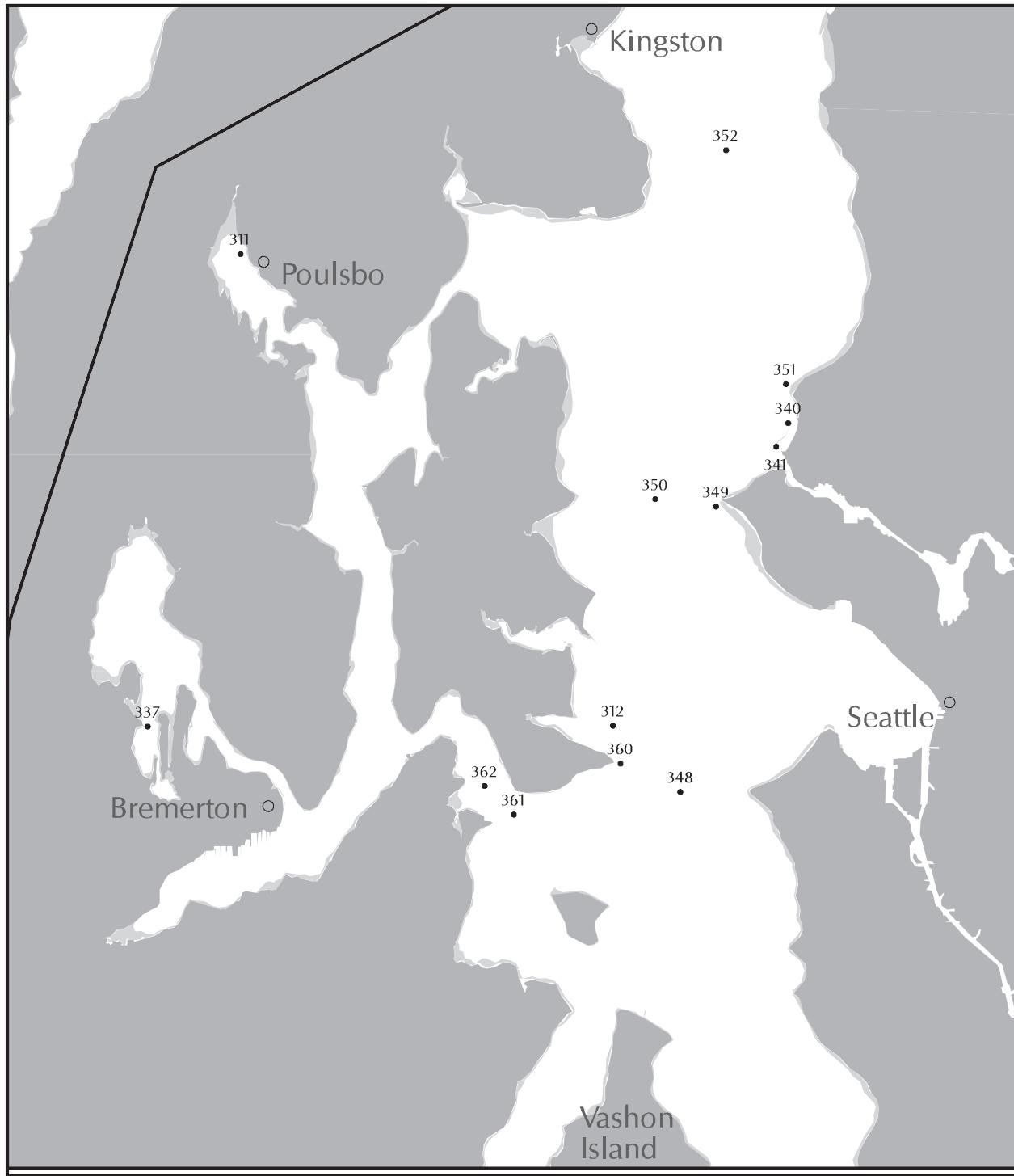


Puget Sound
Map 10A: Whidbey Island to Poulsbo

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|----------------------------|-----------------|------------------|----------------|---|
| 311 | Liberty Bay/Poulsbo Marina | 4743.85 | 12238.81 | PV | On floats and log booms at the Poulsbo marina. |
| 336 | Edmonds Wreck/Scuba Flt | 4748.89 | 12222.96 | ZC,PV | On rafts and floats north of ferry dock. |
| 352 | Yellow 'SF' Bouy | 4745.91 | 12226.17 | ZC | On yellow 'SF' bouy east of Jefferson Head. |
| 353 | Possession Point Bouy | 4753.84 | 12223.05 | ZC | On green bouy off Possession Point. |
| 354 | Scatchet Head Bouy | 4754.56 | 12226.14 | ZC | On red Scatchet Head bouy. |
| 355 | Yellow 'SE' Bouy | 4755.48 | 12229.59 | ZC | On yellow 'SE' bouy off Point No Point. |
| 356 | Double Bluff Bouy | 4757.98 | 12233.12 | ZC | On green bouy off Double Bluff. |
| 357 | Yellow 'SD' Bouy | 4757.97 | 12234.73 | ZC | On yellow 'SD' bouy just north of Foul weather Bluff. |
| 358 | Foulweather Bluff Bouy | 4756.80 | 12236.12 | ZC | On red bouy off Foulweather Bluff. |
| 359 | Yellow 'SC' Bouy | 4801.87 | 12238.14 | ZC | On yellow 'SC' bouy west of Bush Point. |

Puget Sound

Map 10B: Kingston to Vashon Island



LAND AREA

| | |
|--|------------|
| | Upland |
| | Tide Flats |
| | Water |

GROUP SIZE

- Less than 100
- 100 to 500
- Greater than 500



AREA LOCATION

0 1 2 3
STATUTE MILES

Map Ratio 1: 200000



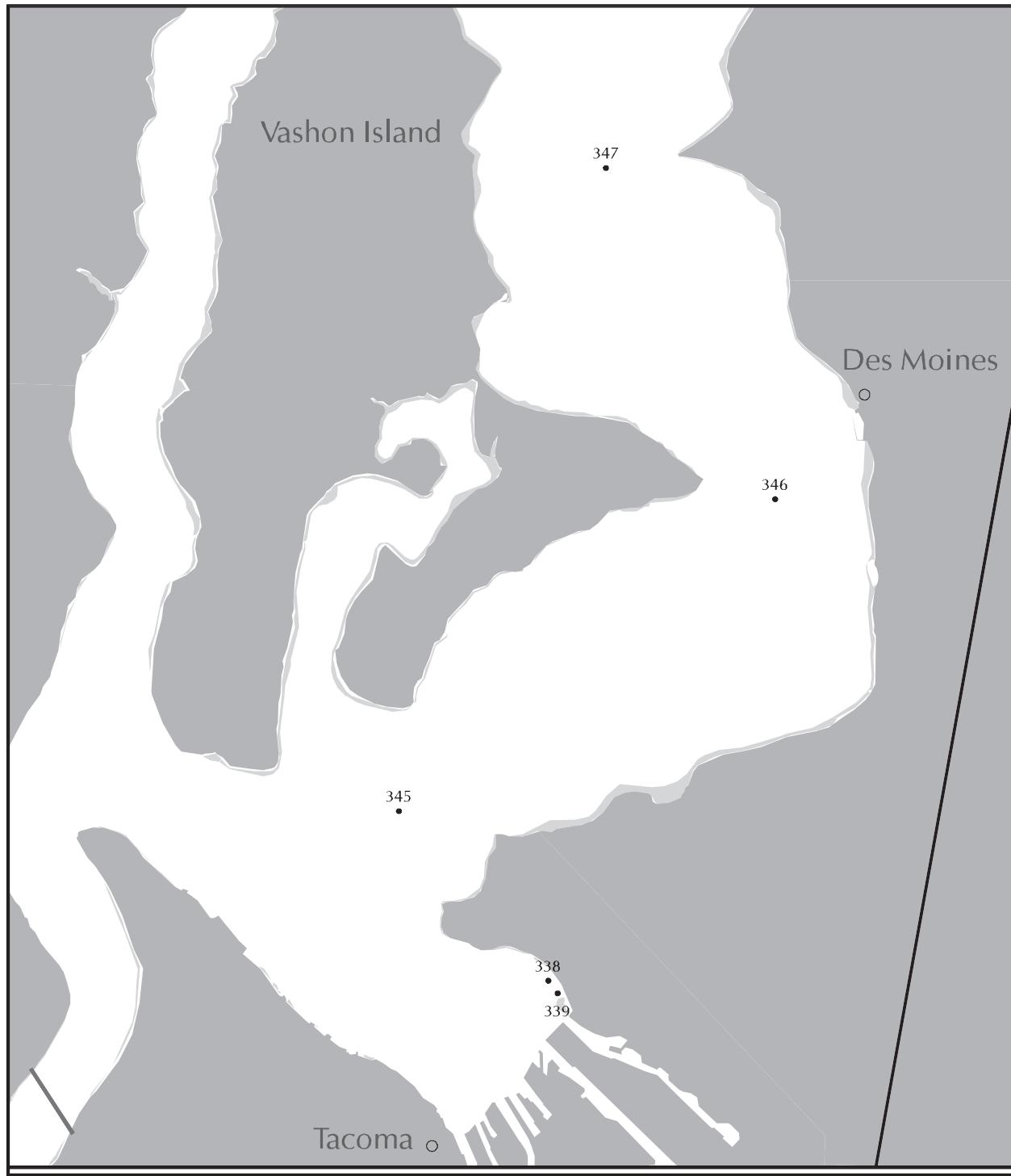
Puget Sound
Map 10B: Kingston to Vashon Island

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|----------------------------|-----------------|------------------|----------------|--|
| 311 | Liberty Bay/Poulsbo Marina | 4743.85 | 12238.81 | PV | On floats and log booms at the Poulsbo marina. |
| 312 | Blakely Rocks | 4735.68 | 12228.76 | PV | On intertidal rocks and reef areas around Blakely Rocks. |
| 337 | Bremerton/Dyes Inlet | 4735.45 | 12240.90 | PV | On rafts and floats in Dyes Inlet. |
| 340 | Shilshole Bay Area | 4741.11 | 12224.38 | ZC | On floats and buoys of Shilshole Bay jetty. |
| 341 | Shilshole Bay Area | 4740.69 | 12224.67 | ZC | On south tip of Shilshole Bay jetty. |
| 348 | Yellow 'T' Bouy | 4734.54 | 12226.96 | ZC | On yellow 'T' bouy off Alki Point. |
| 349 | West Point Bouy | 4739.60 | 12226.21 | ZC | On green bouy just off West Point. |
| 350 | Yellow 'SG' Bouy | 4739.71 | 12227.80 | ZC | On yellow 'SG' bouy between West Point and Skiff Point. |
| 351 | Meadow Point Bouy | 4741.80 | 12224.46 | ZC | On green Meadow Point bouy. |
| 352 | Yellow 'SF' Bouy | 4745.91 | 12226.17 | ZC | On yellow 'SF' bouy east of Jefferson Head. |
| 360 | Restoration Point Bouy | 4735.02 | 12228.54 | ZC | On red bouy off Restoration Point. |
| 361 | Rich Passage Bouy | 4734.07 | 12231.28 | ZC | On red '4' bouy off Orchard Point. |
| 362 | Rich Passage Bouy | 4734.56 | 12232.06 | ZC | On red bouy in Rich Passage. |



Puget Sound

Map 10C: Vashon Island to Commencement Bay



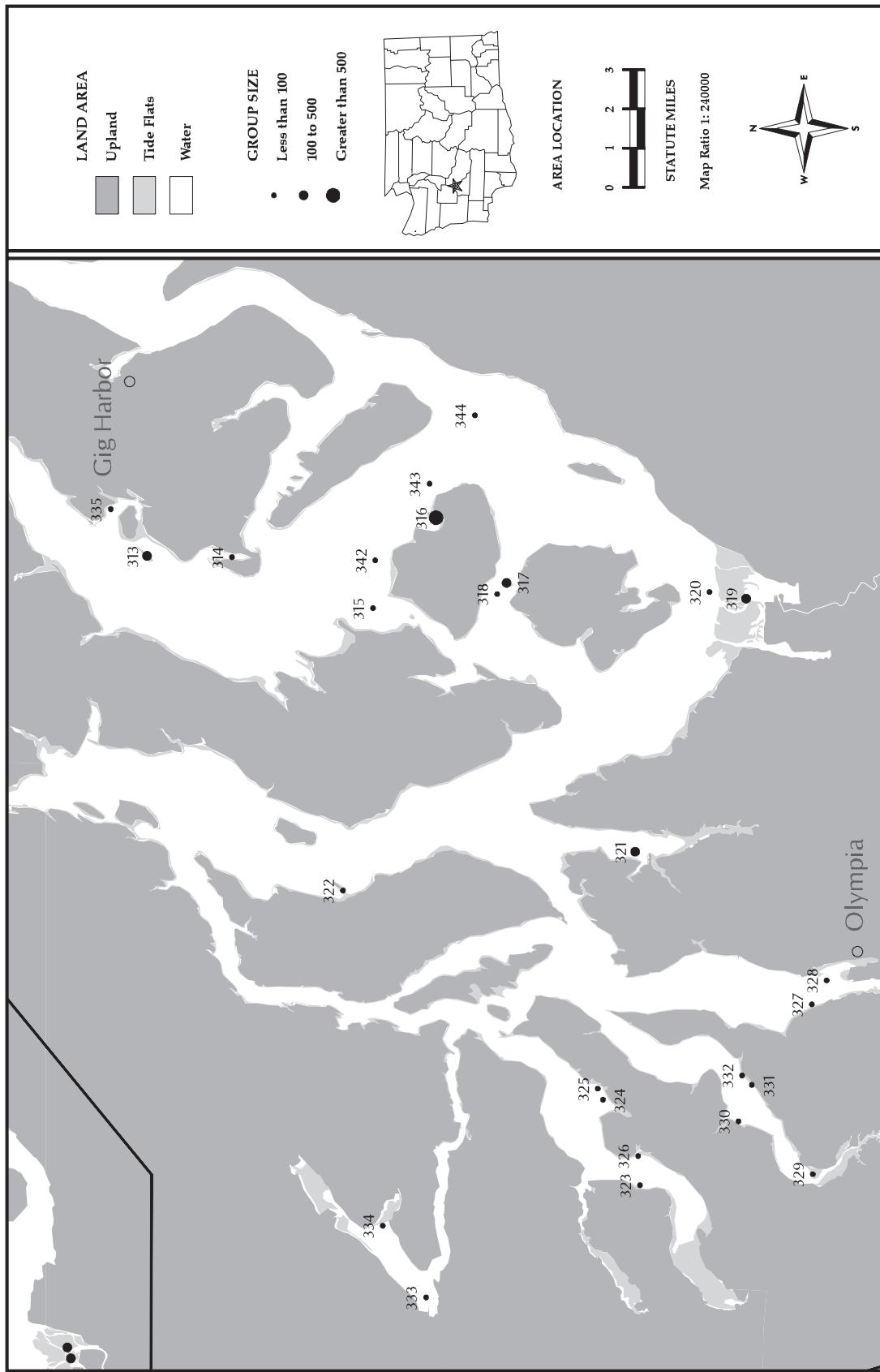
Puget Sound

Map 10C: Vashon Island to Commencement Bay

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|------------------|-----------------|------------------|----------------|--|
| 338 | Commencement Bay | 47 17.51 | 122 24.76 | PV,ZC | On bouys and floats in northeast Commencement Bay. |
| 339 | Commencement Bay | 47 17.36 | 122 24.59 | PV | On log booms in northeast Commencement Bay. |
| 345 | Yellow 'TC' Bouy | 47 19.42 | 122 27.35 | ZC | On yellow 'TC' bouy off southeast Maury Island. |
| 346 | Yellow 'TB' Bouy | 47 23.11 | 122 21.11 | ZC | On yellow 'TB' bouy off Point Robinson. |
| 347 | Yellow 'TA' Bouy | 47 26.87 | 122 24.11 | ZC | On yellow 'TA' bouy off Three Tree Point. |

Puget Sound

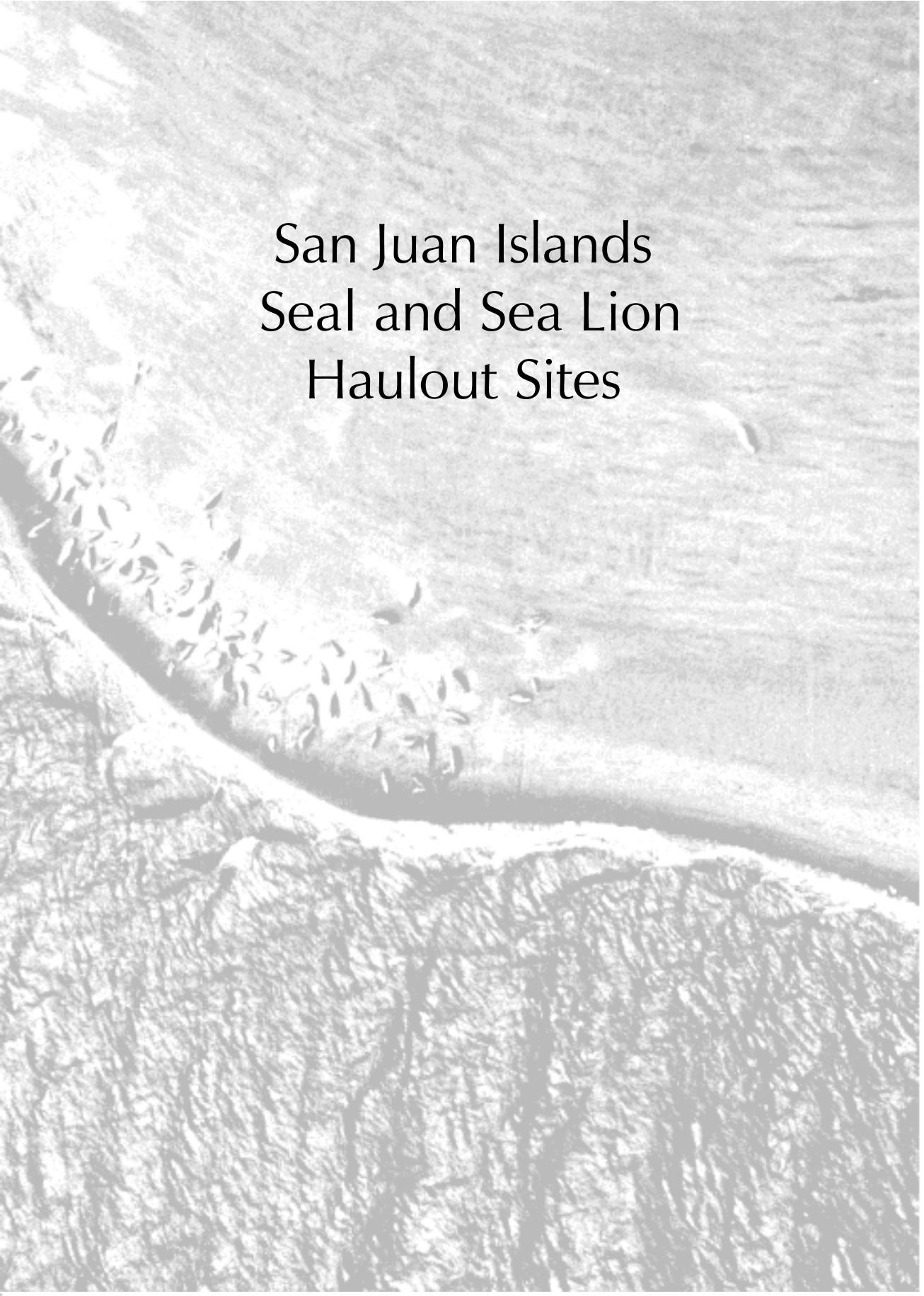
Map 10D: Gig Harbor to Olympia



Puget Sound
Map 10D: Gig Harbor to Olympia

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|-------------------------|-----------------|------------------|----------------|--|
| 313 | Cutts Island | 47 19.34 | 122 41.11 | PV | On spit on north end of island. |
| 314 | Horsehead Bay Floats | 47 17.45 | 122 41.08 | PV | On floats and rafts in Horsehead Bay. |
| 315 | Wykoff Shoals | 47 14.29 | 122 42.61 | PV | On intertidal areas around Wykoff Shoals. |
| 316 | Gertrude Island | 47 12.95 | 122 39.61 | PV | Along beaches and intertidal areas around island. Nursery area. |
| 317 | Eagle Island Area | 47 11.35 | 122 41.67 | PV | On beach and shoals around Eagle Island. |
| 318 | Eagle Island Area | 47 11.54 | 122 42.04 | ZC | On green bouy west of Eagle Island. |
| 319 | Nisqually Delta Area | 47 06.02 | 122 41.96 | PV | Along channels at mouth of river during high tides. |
| 320 | Nisqually Delta Bouy | 47 06.84 | 122 41.78 | ZC | On green bouy off Nisqually Delta. |
| 321 | Woodard Bay | 47 08.32 | 122 50.29 | PV | On log booms in Woodard Bay (at old Weyerhauser site). |
| 322 | McMicken Island | 47 14.78 | 122 51.83 | PV | Beach and intertidal areas around island. |
| 323 | Totten Inlet Area | 47 07.99 | 123 01.12 | PV | On rafts and floats on west side of inlet. |
| 324 | Totten Inlet Area | 47 08.87 | 122 58.38 | PV | On rafts and log booms on east side of inlet. |
| 325 | Totten Inlet Area | 47 08.99 | 122 58.03 | PV | On log booms on east side of inlet. |
| 326 | Totten Inlet Area | 47 08.05 | 123 00.17 | PV | On rafts and net pens off Gallager Cove. |
| 327 | Budd Inlet Area | 47 04.30 | 122 55.07 | PV | On log booms on west side of Budd Inlet. |
| 328 | Budd Inlet Area | 47 03.99 | 122 54.28 | PV | On shoal area west of Priest Point State Park. |
| 329 | Eld Inlet Area | 47 04.16 | 123 00.58 | PV | On rafts and floats in Mud Bay. |
| 330 | Eld Inlet Area | 47 05.84 | 122 58.94 | PV | On rafts and floats on west side of Eld Inlet. |
| 331 | Eld Inlet Area | 47 05.57 | 122 57.74 | PV | On rafts and floats on east side of Eld Inlet. |
| 332 | Eld Inlet Area | 47 05.80 | 122 57.45 | PV | On rafts and float on east side of Eld Inlet. |
| 333 | Hammersly Inlet/Shelton | 47 12.65 | 123 04.99 | PV | On log booms off mill at Shelton. |
| 334 | Hammersly Inlet/Shelton | 47 13.66 | 123 02.71 | PV | On log booms in Chapman Bay. |
| 335 | Rosedale Beach Floats | 47 20.17 | 122 39.63 | PV | On rafts and floats off Rosedale. |
| 342 | NW McNeil Island Bouy | 47 14.27 | 122 41.06 | ZC | On white mooring bouy off northwest side of McNeil Island. |
| 343 | NE McNeil/Hyde Pt Bouy | 47 13.11 | 122 38.51 | ZC | On white mooring bouy off Hyde Point on northeast side of McNeil Island. |
| 344 | Toliva Shoals Bouy | 47 12.15 | 122 36.25 | ZC,EJ | On Toliva Shoals bouy. |

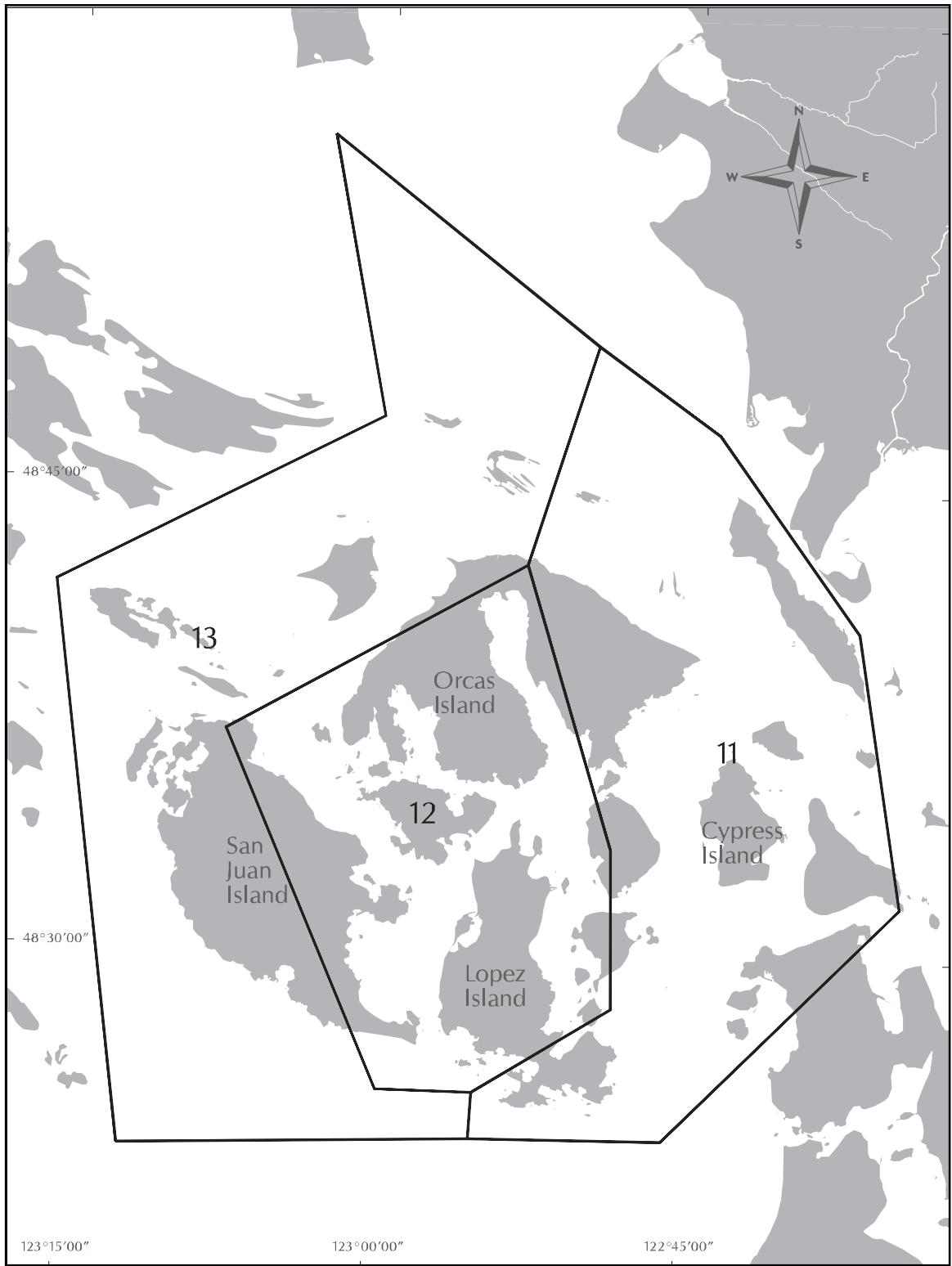




San Juan Islands Seal and Sea Lion Haulout Sites



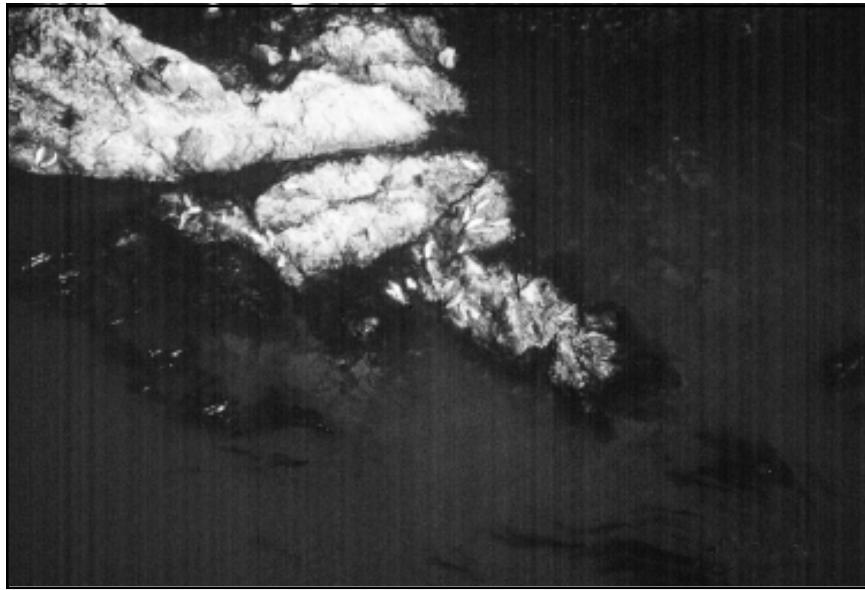
San Juan Islands Regions 11, 12, and 13



Region 11: San Juan Islands- Rosario Strait

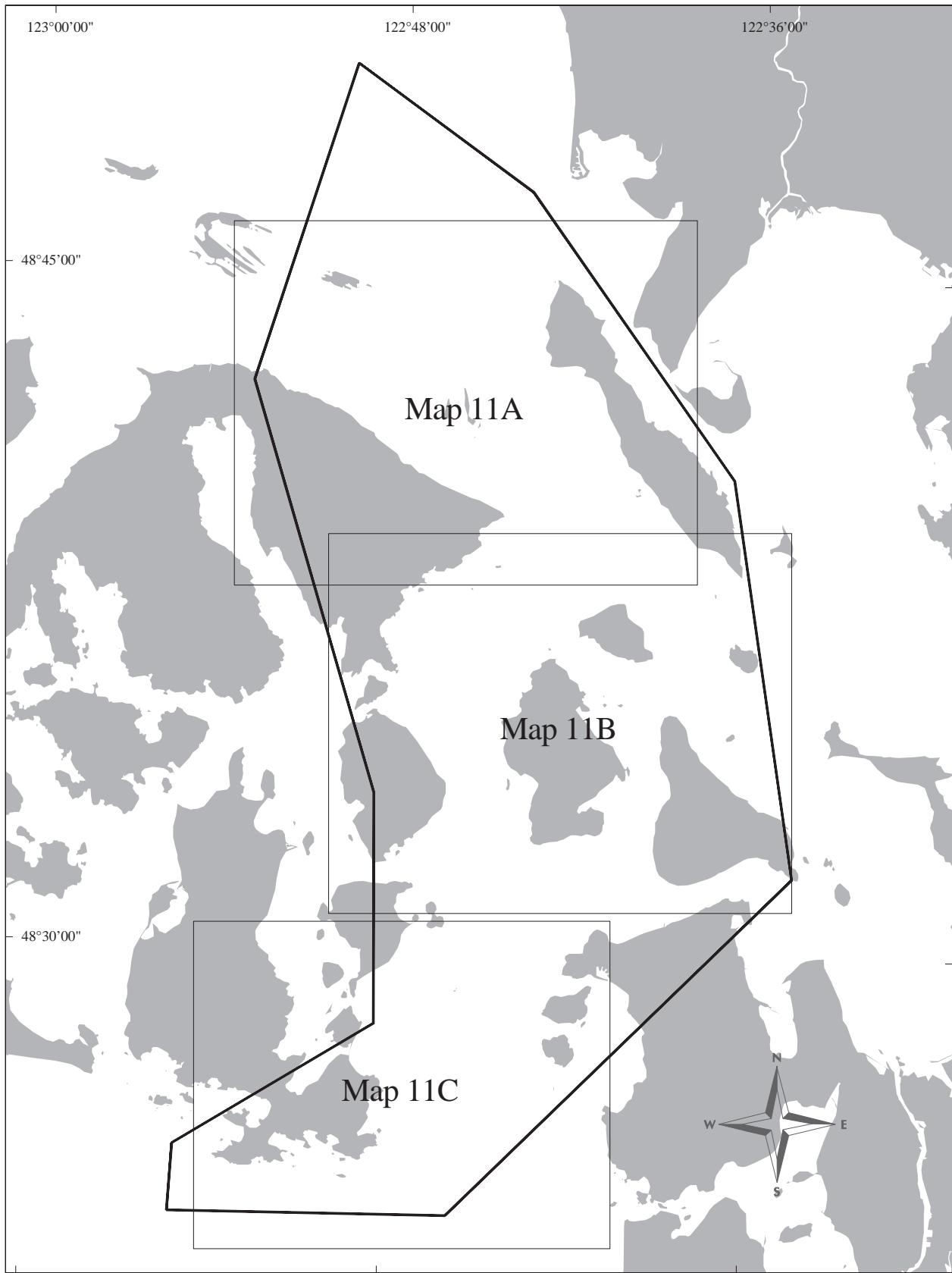
Use NOAA Charts 18421 (Strait of Juan de Fuca and Strait of Georgia/Drayton Harbor), 18429 (Rosario Strait-southern part), 18430 (Rosario Strait-northern part), and 18431 (Rosario Strait to Cherry Point) for navigation and bathymetry details.

Numerous harbor seal haulout sites are located on intertidal rocks, reefs, and islands in this region. Peak counts occur during the pupping season (mid-June through August) and annual molt (mid-August through October). Small numbers of sea lions may occasionally use navigation buoys.



Harbor seals hauled out along Colville Island, August 13, 1996.

San Juan Islands Region 11: Rosario Strait



Region 11: San Juan Islands: Rosario Strait

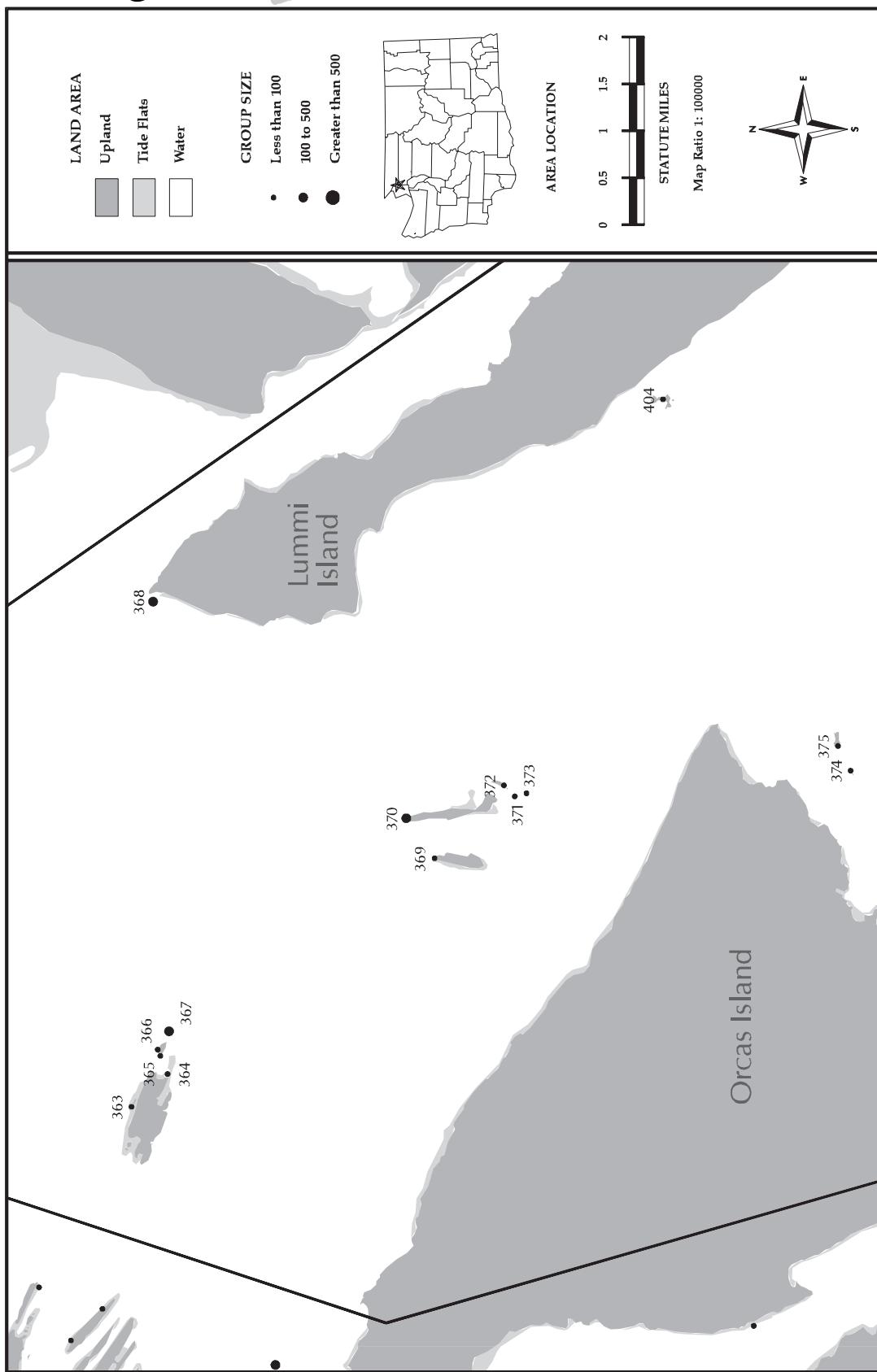
| <u>ID</u> | <u>Location</u> | <u>Survey Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|-------------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 363 | Matia Island Area | 11.01 | 4844.96 | 12245.03 | PV | <100 | LOW |
| 364 | Matia Island Area | 11.01 | 4844.64 | 12249.55 | PV | <100 | LOW |
| 365 | Puffin Island Area | 11.02 | 4844.71 | 12249.30 | PV | <100 | LOW |
| 366 | Puffin Island Area | 11.02 | 4844.74 | 12249.22 | PV | <100 | LOW |
| 367 | Reef East of Puffin Island | 11.03 | 4844.64 | 12248.95 | PV | 100-500 | LOW |
| 368 | Lummi Island/Point Migley | 11.04 | 4844.90 | 12242.96 | PV | 100-500 | LOW |
| 369 | Barnes Island | 11.05 | 4842.23 | 12246.43 | PV | <100 | LOW |
| 370 | Clark Island | 11.06 | 4842.50 | 12245.88 | PV | 100-500 | LOW |
| 371 | The Sisters Area | 11.07 | 4841.51 | 12245.53 | PV | <100 | LOW |
| 372 | The Sisters Area | 11.07 | 4841.61 | 12245.38 | PV | <100 | LOW |
| 373 | Little Sister | 11.08 | 4841.40 | 12245.49 | PV | <100 | LOW |
| 374 | Middle Peapod Rock | 11.09 | 4838.41 | 12245.04 | PV | <100 | LOW |
| 375 | North Peapod Rock | 11.10 | 4838.53 | 12244.71 | PV | <100 | LOW |
| 376 | South Peapod Rock | 11.11 | 4838.04 | 12245.45 | PV | 100-500 | LOW |
| 377 | Boulder Reef Area | 11.12 | 4838.11 | 12241.35 | PV | 100-500 | LOW |
| 378 | Buckeye Shoal | 11.13 | 4837.44 | 12243.72 | PV | <100 | LOW |
| 379 | Cypress Reef | 11.14 | 4836.98 | 12243.14 | PV | <100 | LOW |
| 380 | Cone Island | 11.15 | 4835.54 | 12240.69 | PV | <100 | LOW |
| 381 | Sinclair Island, SE | 11.16 | 4836.77 | 12239.41 | PV | <100 | LOW |
| 382 | Viti Island | 11.17 | 4837.96 | 12237.26 | PV | <100 | LOW |
| 383 | Black Rock | 11.18 | 4832.78 | 12245.85 | PV | <100 | LOW |
| 384 | Pointer Island | 11.19 | 4832.30 | 12246.85 | PV | <100 | LOW |
| 385 | Lawson Rock | 11.20 | 4831.87 | 12247.24 | PV | <100 | LOW |
| 386 | Belle Rock | 11.21 | 4829.59 | 12245.09 | PV | <100 | LOW |
| 387 | Bird Rocks | 11.22 | 4829.10 | 12245.65 | PV | <100 | LOW |
| 388 | Bird Rocks | 11.22 | 4829.16 | 12245.61 | PV | <100 | LOW |
| 389 | Bird Rocks | 11.22 | 4829.23 | 12245.56 | PV | <100 | LOW |
| 390 | Burrows Island/West Side | 11.25 | 4829.03 | 12242.72 | PV | <100 | LOW |
| 391 | Allan Island/NW End | 11.26 | 4828.06 | 12242.70 | PV | <100 | LOW |
| 392 | Williamson Rocks | 11.27 | 4826.99 | 12242.28 | PV | 100-500 | LOW |
| 393 | Castle Rock Area | 11.28 | 4825.30 | 12249.23 | PV | <100 | LOW |
| 394 | Colville Island | 11.29 | 4824.87 | 12249.24 | PV | 100-500 | LOW |
| 395 | Aleck Bay Area | 11.30 | 4825.18 | 12251.31 | PV | <100 | LOW |
| 396 | Aleck Bay Area | 11.30 | 4825.11 | 12250.81 | PV | <100 | LOW |
| 397 | Aleck Bay Area | 11.30 | 4825.34 | 12250.90 | PV | <100 | LOW |
| 398 | Iceberg Point | 11.31 | 4825.21 | 12253.42 | PV | <100 | LOW |
| 399 | Iceberg Point | 11.31 | 4825.12 | 12253.08 | PV | <100 | LOW |
| 400 | Iceberg Point | 11.32 | 4825.18 | 12252.00 | PV | <100 | LOW |
| 401 | Iceberg Island | 11.33 | 4825.66 | 12253.30 | PV | <100 | LOW |
| 402 | Kellett Ledge | 11.34 | 4827.03 | 12247.52 | PV | <100 | LOW |
| 403 | Spindle Rock/N Blakely Island | 11.35 | 4835.30 | 12247.96 | PV | <100 | LOW |
| 404 | Lummi Rocks | 11.36 | 4840.24 | 12239.94 | PV | <100 | LOW |
| 405 | Vendovi Island | 11.37 | 4837.02 | 12236.66 | PV | 100-500 | LOW |

Region 11: San Juan Islands: Rosario Strait

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 363 | On intertidal ledges and reef areas along north side of island. |
| 364 | On intertidal rocks and reef areas off east end of island. |
| 365 | On intertidal rocks and reef area on west end of Puffin Island. |
| 366 | On intertidal ledges on north side of Puffin Island. Nursery area. |
| 367 | On reef area just east of Puffin Island. Nursery area. |
| 368 | On rocks and reef area off Point Migley. |
| 369 | On intertidal rocks and reef areas on north end of island. |
| 370 | On intertidal rocks and reef areas on north end of island. |
| 371 | On intertidal rocks and reef areas off southeast end of Barnes Island. |
| 372 | On intertidal area around The Sisters Rock (USFWS ID 47). |
| 373 | On intertidal area around Little Sister Rock (USFWS ID 48). |
| 374 | On intertidal rocks and reef areas around Middle Peapod Rock (USFWS ID 63). |
| 375 | On intertidal rocks and reef areas around North Peapod Rock (USFWS ID 64). |
| 376 | On intertidal rocks and reef areas around South Peapod Rock (USFWS ID 62). |
| 377 | On intertidal rocks and reef area at Boulder Reef |
| 378 | On intertidal reef area at Buckeye Shoal. |
| 379 | On intertidal rocks and shoals at Cypress Reef. |
| 380 | On intertidal areas around Cone Islands. |
| 381 | On intertidal rocks and reef areas on southeast end of island. |
| 382 | On intertidal rocks and reef areas around Viti Island (USFWS ID 66). |
| 383 | On intertidal rocks and reef areas around Black Rock. |
| 384 | On intertidal rocks and reef areas around Pointer Island (USFWS ID 57). |
| 385 | On intertidal rocks and reef areas around Lawson Rock (USFWS ID 56). |
| 386 | On intertidal areas around Belle Rock. |
| 387 | On intertidal rocks and reef areas around south Bird Rocks (USFWS ID 80). |
| 388 | On intertidal rocks and reef areas around middle Bird Rocks (USFWS ID 80). |
| 389 | On intertidal rocks and reef areas around north Bird Rocks (USFWS ID 80). |
| 390 | On intertidal ledges and reef area off the northwest side of island. |
| 391 | On intertidal rocks and reef area off the northwest side of island. |
| 392 | On intertidal ledges and reef areas around Williamson Rocks (USFWS ID 81). Nursery area. |
| 393 | On scattered intertidal rocks and reef areas around Castle Rock area. |
| 394 | On intertidal ledges and rocks on south side of Colville Island USFWS ID 82). |
| 395 | Intertidal rocks and reef areas off Aleck Bay. |
| 396 | Intertidal ledges and reef areas around unnamed rock (USFWS ID 10) at entrance to Aleck Bay. |
| 397 | Intertidal ledges and reef areas around unnamed rock (USFWS ID 11) at entrance to Aleck Bay. |
| 398 | Intertidal ledges and reef areas just east of Iceberg Point. |
| 399 | Intertidal ledges and reef area east of Iceberg Point (USFWS ID 14). |
| 400 | Intertidal rocks and reef areas around unnamed rocks in bay east of Iceberg Point. |
| 401 | Intertidal rocks and reef areas around Iceberg Island. |
| 402 | On intertidal reef areas around Kellett Ledge. |
| 403 | Intertidal areas around Spindle Rock. |
| 404 | Intertidal rocks and reef areas around Lummi Rocks. |
| 405 | Intertidal rocks and reef areas off northwest side of island. |

San Juan Islands

Region 11A: Rosario Strait-North

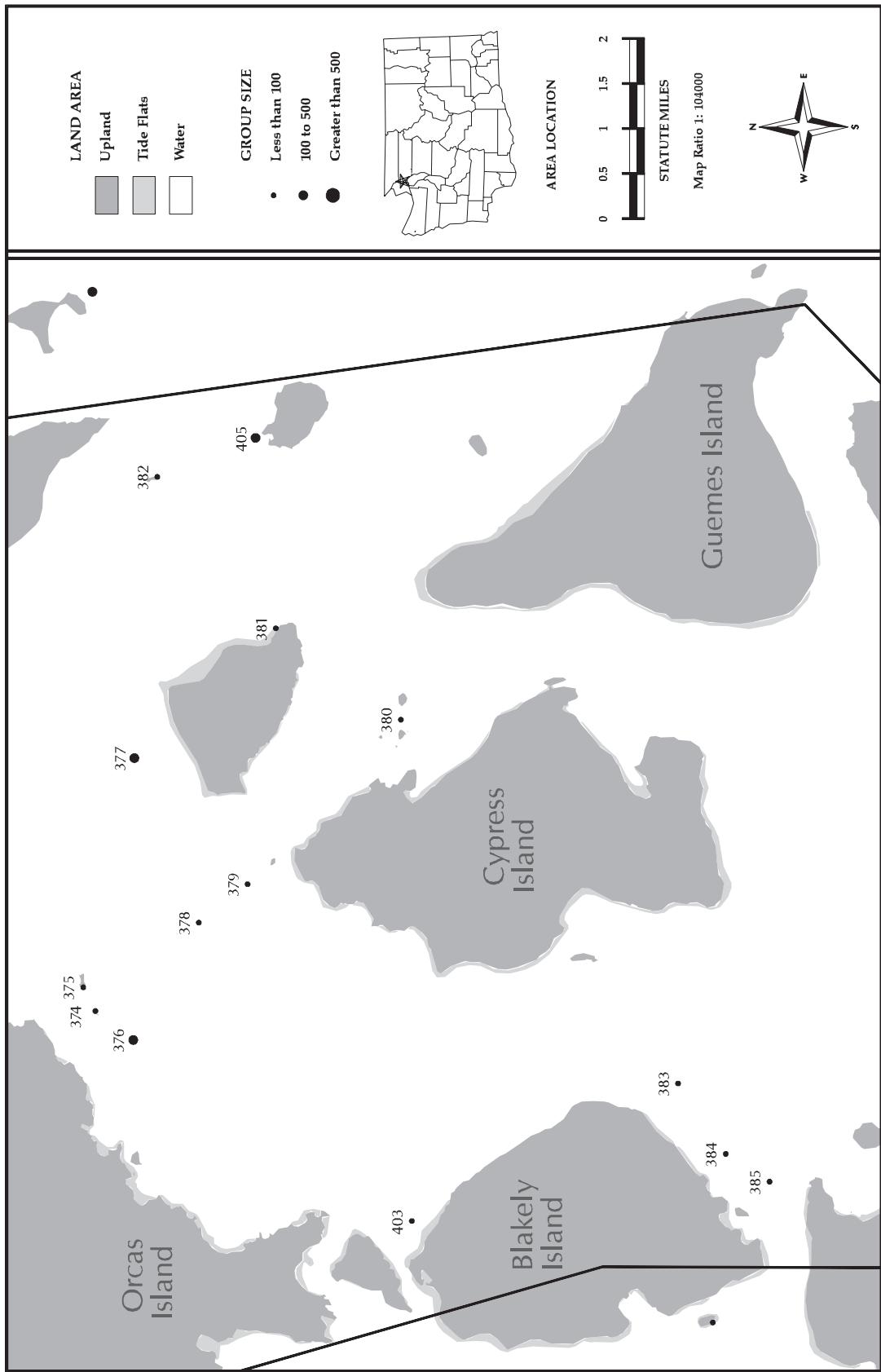


San Juan Islands
Map 11A: Rosario Strait-North

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|----------------------------|-----------------|------------------|----------------|---|
| 363 | Matia Island Area | 4844.96 | 12245.03 | PV | On intertidal ledges and reef areas along north side of island. |
| 364 | Matia Island Area | 4844.64 | 12249.55 | PV | On intertidal rocks and reef areas off east end of island. |
| 365 | Puffin Island Area | 4844.71 | 12249.30 | PV | On intertidal rocks and reef area on west end of Puffin Island. |
| 366 | Puffin Island Area | 4844.74 | 12249.22 | PV | On intertidal ledges on north side of Puffin Island. Nursery area. |
| 367 | Reef East of Puffin Island | 4844.64 | 12248.95 | PV | On reef area just east of Puffin Island. Nursery area. |
| 368 | Lummi Island/Pt Migley | 4844.90 | 12242.96 | PV | On rocks and reef area off Point Migley. |
| 369 | Barnes Island | 4842.23 | 12246.43 | PV | On intertidal rocks and reef areas on north end of island. |
| 370 | Clark Island | 4842.50 | 12245.88 | PV | On intertidal rocks and reef areas on north end of island. |
| 371 | The Sisters Area | 4841.51 | 12245.53 | PV | On intertidal rocks and reef areas off southeast end of Barnes Island. |
| 372 | The Sisters Area | 4841.61 | 12245.38 | PV | On intertidal area around The Sisters Rock (USFWS ID 47). |
| 373 | Little Sister | 4841.40 | 12245.49 | PV | On intertidal area around Little Sister Rock (USFWS ID 48). |
| 374 | Middle Peapod Rock | 4838.41 | 12245.04 | PV | On intertidal rocks and reef areas around Middle Peapod Rock (USFWS ID 63). |
| 375 | North Peapod Rock | 4838.53 | 12244.71 | PV | On intertidal rocks and reef areas around North Peapod Rock (USFWS ID 64). |
| 404 | Lummi Rocks | 4840.24 | 12239.94 | PV | Intertidal rocks and reef areas around Lummi Rocks. |

San Juan Islands

Map 11B: Rosario Strait-Central

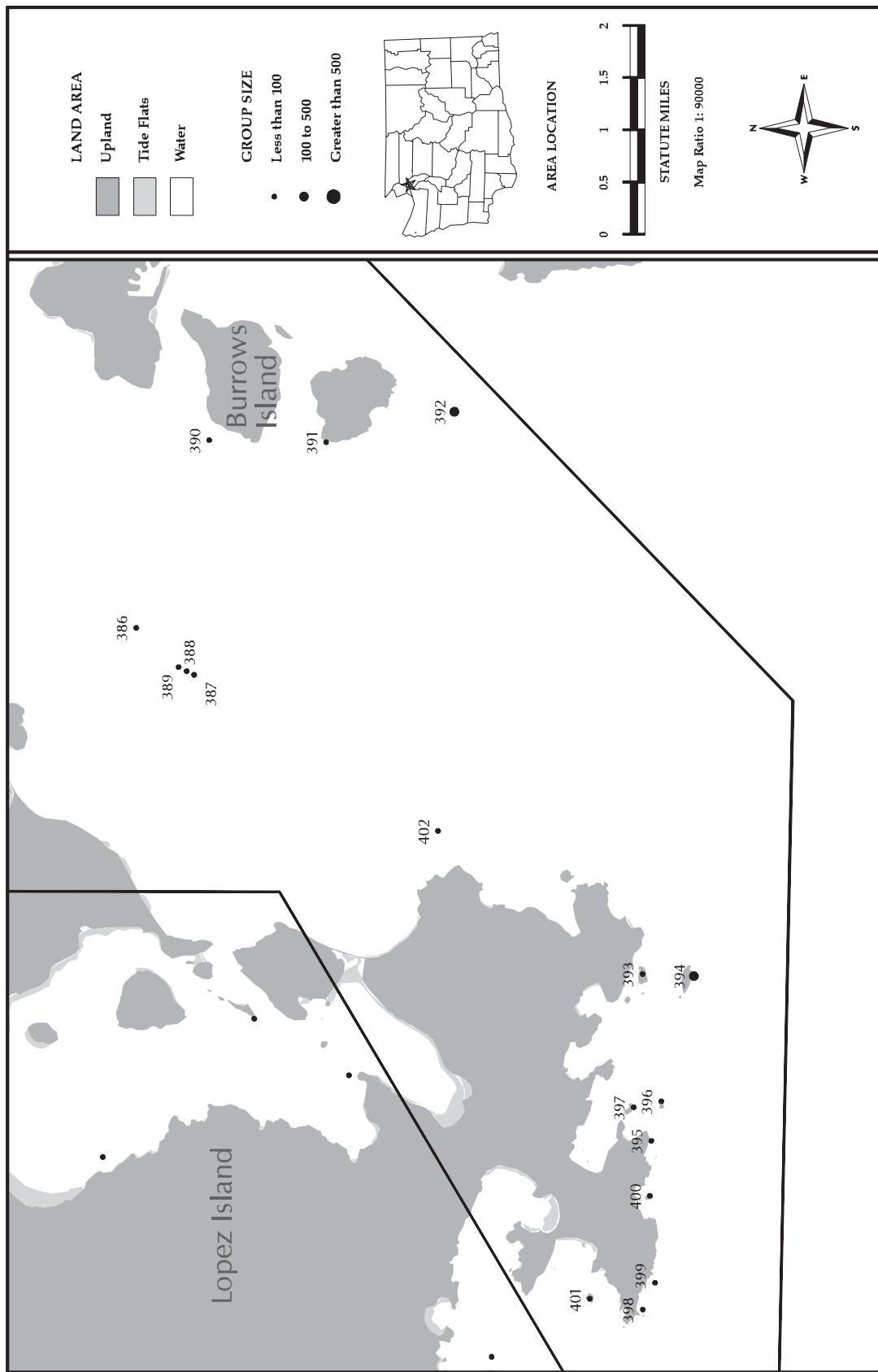


San Juan Islands
Map 11B: Rosario Strait-Central

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|---------------------------|-----------------|------------------|----------------|---|
| 374 | Middle Peapod Rock | 48 38.41 | 122 45.04 | PV | On intertidal rocks and reef areas around Middle Peapod Rock (USFWS ID 63). |
| 375 | North Peapod Rock | 48 38.53 | 122 44.71 | PV | On intertidal rocks and reef areas around North Peapod Rock (USFWS ID 64). |
| 376 | South Peapod Rock | 48 38.04 | 122 45.45 | PV | On intertidal rocks and reef areas around South Peapod Rock (USFWS ID 62). |
| 377 | Boulder Reef Area | 48 38.11 | 122 41.35 | PV | On intertidal rocks and reef area at Boulder Reef. |
| 378 | Buckeye Shoal | 48 37.44 | 122 43.72 | PV | On intertidal reef area at Buckeye Shoal. |
| 379 | Cypress Reef | 48 36.98 | 122 43.14 | PV | On intertidal rocks and shoals at Cypress Reef. |
| 380 | Cone Island | 48 35.54 | 122 40.69 | PV | On intertidal areas around Cone Islands. |
| 381 | Sinclair Island, SE | 48 36.77 | 122 39.41 | PV | On intertidal rocks and reef areas on southeast end of island. |
| 382 | Viti Island | 48 37.96 | 122 37.26 | PV | On intertidal rocks and reef areas around Viti Island (USFWS ID 66). |
| 383 | Black Rock | 48 32.78 | 122 45.85 | PV | On intertidal rocks and reef areas around Black Rock. |
| 384 | Pointer Island | 48 32.30 | 122 46.85 | PV | On intertidal rocks and reef areas around Pointer Island (USFWS ID 57). |
| 385 | Lawson Rock | 48 31.87 | 122 47.24 | PV | On intertidal rocks and reef areas around Lawson Rock (USFWS ID 56). |
| 403 | Spindle Rock/N Blakely Is | 48 35.30 | 122 47.96 | PV | Intertidal areas around Spindle Rock. |
| 405 | Vendovi Island | 48 37.02 | 122 36.66 | PV | Intertidal rocks and reef areas off northwest side of island. |

San Juan Islands

Region 11C: Rosario Strait-South



San Juan Islands
Map 11C: Rosario Strait-South

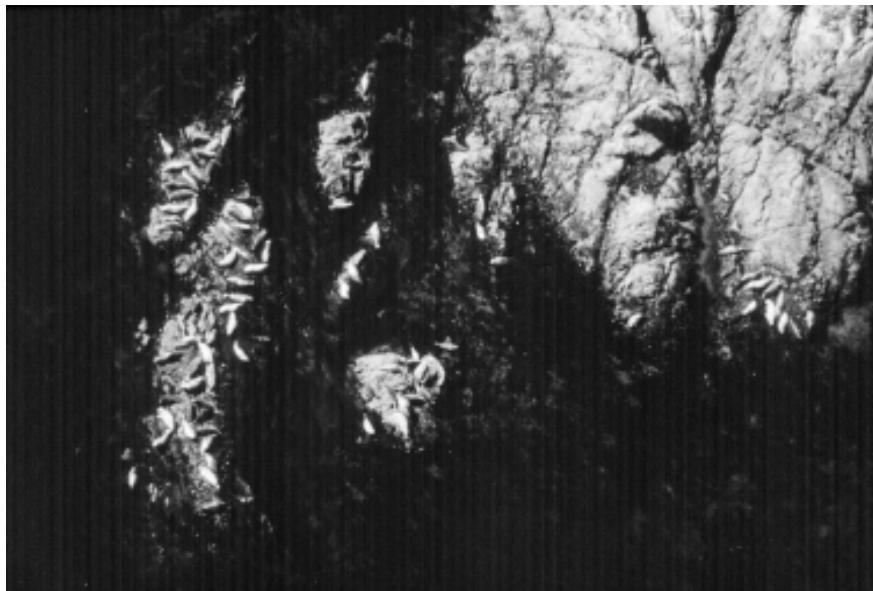
| ID | Location | Latitude | Longitude | Species | Description |
|-----------|--------------------------|-----------------|------------------|----------------|--|
| 386 | Belle Rock | 4829.59 | 12245.09 | PV | On intertidal areas around Belle Rock |
| 387 | Bird Rocks | 4829.10 | 12245.65 | PV | On intertidal rocks and reef areas around south Bird Rocks (USFWS ID 80). |
| 388 | Bird Rocks | 4829.16 | 12245.61 | PV | On intertidal rocks and reef areas around middle Bird Rocks (USFWS ID 80). |
| 389 | Bird Rocks | 4829.23 | 12245.56 | PV | On intertidal rocks and reef areas around north Bird Rocks (USFWS ID 80). |
| 390 | Burrows Island/West Side | 4829.03 | 12242.72 | PV | On intertidal ledges and reef area off the north west side of island. |
| 391 | Allan Island/NW End | 4828.06 | 12242.70 | PV | On intertidal rocks and reef area off the north west side of island. |
| 392 | Williamson Rocks | 4826.99 | 12242.28 | PV | On intertidal ledges and reef areas around Williamson Rocks (USFWS ID 81). Nursery area. |
| 393 | Castle Rock Area | 4825.30 | 12249.23 | PV | On scattered intertidal rocks and reef areas around Castle Rock area. |
| 394 | Colville Island | 4824.87 | 12249.24 | PV | On intertidal ledges and rocks on south side of Colville Island USFWS ID 82). |
| 395 | Aleck Bay Area | 4825.18 | 12251.31 | PV | Intertidal rocks and reef areas off Aleck Bay. |
| 396 | Aleck Bay Area | 4825.11 | 12250.81 | PV | Intertidal ledges and reef areas around unnamed rock (USFWS ID 10) at entrance to Aleck Bay. |
| 397 | Aleck Bay Area | 4825.34 | 12250.90 | PV | Intertidal ledges and reef areas around unnamed rock (USFWS ID 11) at entrance to Aleck Bay. |
| 398 | Iceberg Point | 4825.21 | 12253.42 | PV | Intertidal ledges and reef areas just east of Iceberg Point. |
| 399 | Iceberg Point | 4825.12 | 12253.08 | PV | Intertidal ledges and reef area east of Iceberg Point (USFWS ID 14). |
| 400 | Iceberg Point | 4825.18 | 12252.00 | PV | Intertidal rocks and reef areas around unnamed rocks in bay east of Iceberg Point. |
| 401 | Iceberg Island | 4825.66 | 12253.30 | PV | Intertidal rocks and reef areas around Iceberg Island. |
| 402 | Kellett Ledge | 4827.03 | 12247.52 | PV | On intertidal reef areas around Kellett Ledge. |

Region 12: San Juan Islands-San Juan Channel

Use NOAA Charts 18421 (Strait of Juan de Fuca and Strait of Georgia/Drayton Harbor), 18434 (San Juan Channel), 18432 (Boundary Pass) for navigation and bathymetry details.

Numerous harbor seal haulout sites are located on intertidal rocks, reefs, and islands in this region.

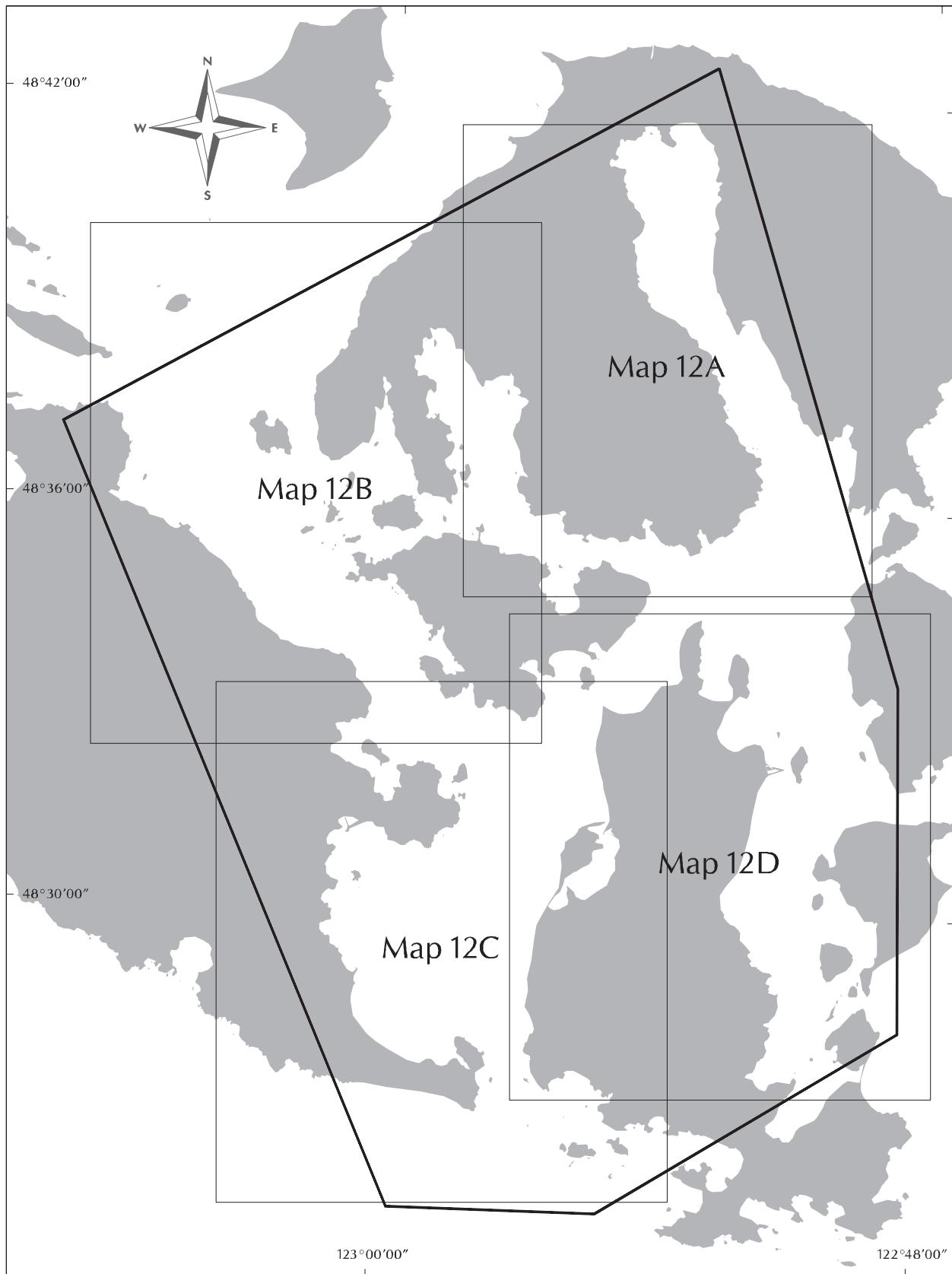
Peak counts occur during the pupping season (mid-June through August) and annual molt (mid-August through October). Small numbers of sea lions may occasionally use navigation buoys.



Harbor seals hauled out on Whale Rock at low tide, August 13, 1996.

San Juan Islands

Region 12: San Juan Channel



Region 12: San Juan Islands: San Juan Channel

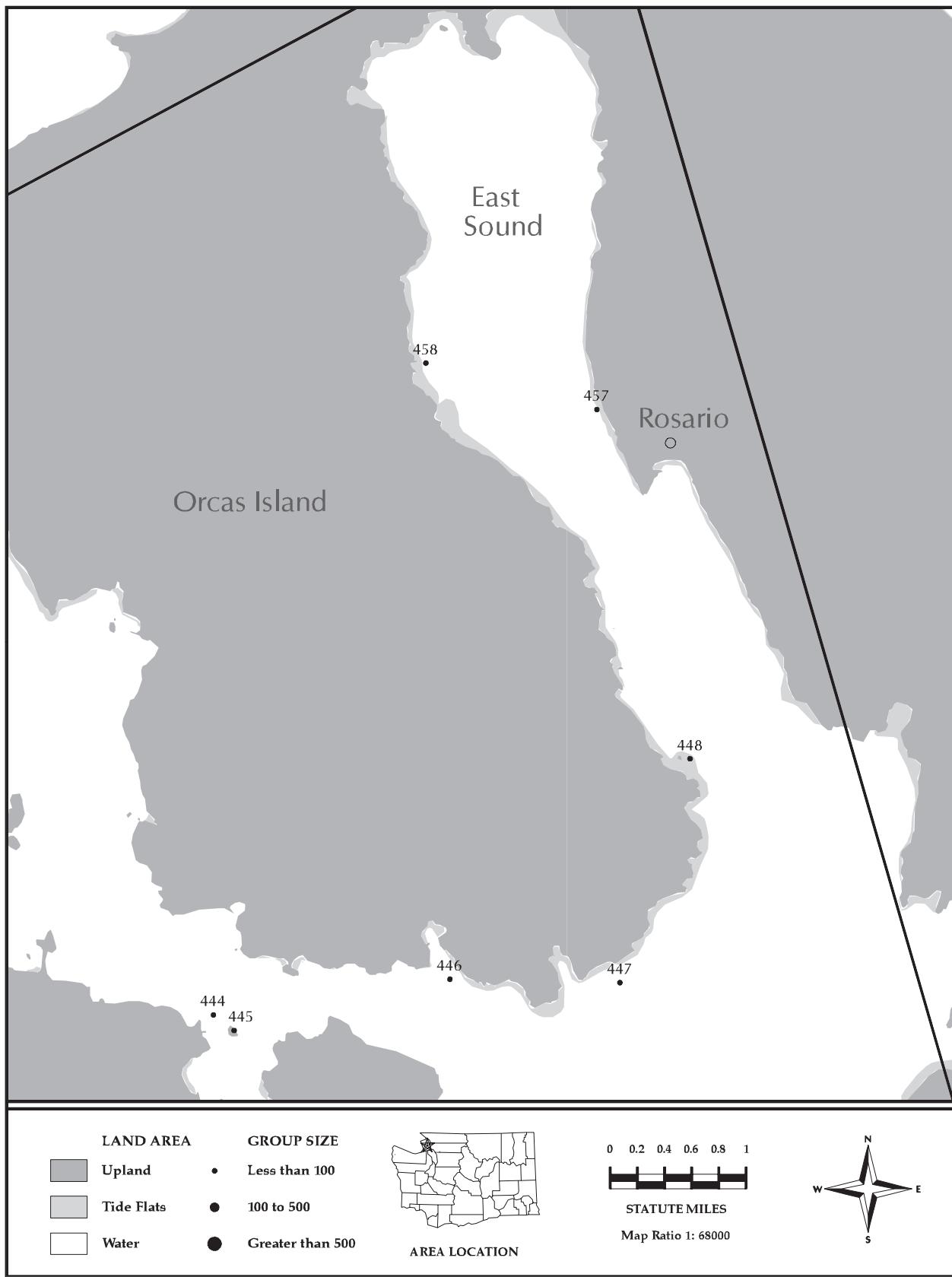
| <u>ID</u> | <u>Location</u> | <u>Survey</u> | <u>Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|-------------------------------|---------------|-------------|-----------------|------------------|----------------|--------------|------------|
| 406 | Hall Island Area | | 12.01 | 4826.12 | 12254.65 | PV | <100 | LOW |
| 407 | Rock NW of Hall Island | | 12.02 | 4826.16 | 12254.81 | PV | <100 | LOW |
| 408 | Secar Rock | | 12.03 | 4826.29 | 12254.33 | PV | <100 | LOW |
| 409 | Rocks E of Charles Island | | 12.04 | 4826.45 | 12254.07 | PV | <100 | LOW |
| 410 | SE of Long Island | | 12.05 | 4826.32 | 12254.98 | PV | <100 | LOW |
| 411 | Reef S of Long Island | | 12.06 | 4826.27 | 12255.52 | PV | <100 | LOW |
| 412 | SW of Long Island | | 12.07 | 4826.35 | 12255.84 | PV | <100 | LOW |
| 413 | N of Long Island | | 12.08 | 4826.62 | 12255.30 | PV | <100 | LOW |
| 414 | Mummy Rock | | 12.09 | 4826.99 | 12255.73 | PV | <100 | LOW |
| 415 | Whale Rock | | 12.10 | 4826.84 | 12256.46 | PV | <100 | LOW |
| 416 | Buck Island | | 12.11 | 4827.14 | 12255.21 | PV | <100 | LOW |
| 417 | Rocks off Davis Point | | 12.12 | 4827.35 | 12255.85 | PV | <100 | LOW |
| 418 | Deadman Island | | 12.13 | 4827.54 | 12256.51 | PV | <100 | LOW |
| 419 | Goose Island | | 12.14 | 4827.53 | 12257.37 | PV | 100-500 | LOW |
| 420 | Shark Reef | | 12.15 | 4828.58 | 12256.77 | PV | <100 | LOW |
| 421 | Harbor Rock | | 12.16 | 4828.21 | 12258.16 | PV | <100 | LOW |
| 422 | North Pacific Rock | | 12.17 | 4828.29 | 12259.75 | PV | <100 | LOW |
| 423 | Halftide Rocks | | 12.18 | 4828.73 | 12259.93 | PV | <100 | LOW |
| 424 | Low Point | | 12.19 | 4829.09 | 12300.40 | PV | <100 | LOW |
| 425 | Reef S of Dinner Island | | 12.20 | 4830.30 | 12300.41 | PV | 100-500 | LOW |
| 426 | NW of Dinner Island (N Bay) | | 12.21 | 4830.59 | 12300.99 | PV | <100 | LOW |
| 427 | Pear Point Area | | 12.22 | 4830.89 | 12258.82 | PV | <100 | LOW |
| 428 | Pear Point Area | | 12.22 | 4830.83 | 12258.94 | PV | <100 | LOW |
| 429 | Pear Point Area | | 12.22 | 4831.08 | 12258.58 | PV | <100 | LOW |
| 430 | Danger Rock/NE of Pear Point | | 12.23 | 4831.26 | 12258.16 | PV | <100 | LOW |
| 431 | Reef Point | | 12.24 | 4831.70 | 12258.00 | PV | <100 | LOW |
| 432 | Rock in Hicks Bay | | 12.25 | 4833.10 | 12258.07 | PV | <100 | LOW |
| 433 | Rocks NE of Point George | | 12.26 | 4833.99 | 12259.01 | PV | <100 | LOW |
| 434 | Tift Rocks, S of Neck Point | | 12.27 | 4834.71 | 12259.84 | PV | <100 | LOW |
| 435 | E Of Neck Point, Shaw Island | | 12.28 | 4835.22 | 12300.38 | PV | <100 | LOW |
| 436 | Bell Island/E of Crane Island | | 12.29 | 4835.77 | 12258.76 | PV | <100 | LOW |
| 437 | Reef W of Cliff Island | | 12.30 | 4835.33 | 12301.13 | PV | <100 | LOW |
| 438 | Nob Island | | 12.31 | 4835.47 | 12301.04 | PV | <100 | LOW |
| 439 | Bird Rock/W of Crane Island | | 12.32 | 4835.90 | 12300.82 | PV | <100 | LOW |
| 440 | Reef Island | | 12.33 | 4836.31 | 12300.97 | PV | <100 | LOW |
| 441 | Rock W of Yellow Island | | 12.34 | 4835.46 | 12301.97 | PV | 100-500 | LOW |
| 442 | Rocky Bay | | 12.35 | 4836.05 | 12305.87 | PV | <100 | LOW |
| 443 | Rocks SW of O'Neil Island | | 12.36 | 4836.20 | 12305.53 | PV | <100 | LOW |
| 444 | Blind Island | | 12.37 | 4835.21 | 12256.33 | PV | <100 | LOW |
| 445 | Blind Island | | 12.37 | 4835.12 | 12256.13 | PV | <100 | LOW |
| 446 | S of Grindstone Harbor | | 12.38 | 4835.49 | 12254.07 | PV | <100 | LOW |
| 447 | Shag Rock | | 12.39 | 4835.50 | 12252.43 | PV | <100 | LOW |
| 448 | East Sound/Twin Rocks | | 12.40 | 4836.94 | 12251.82 | PV | <100 | LOW |
| 449 | Leo Reef | | 12.41 | 4833.19 | 12251.25 | PV | 100-500 | LOW |
| 450 | Flower Island | | 12.42 | 4832.78 | 12251.11 | PV | <100 | LOW |
| 451 | Willow Island | | 12.43 | 4832.38 | 12249.30 | PV | <100 | LOW |
| 452 | Small Island | | 12.44 | 4829.74 | 12251.71 | PV | <100 | LOW |
| 453 | Crab Island | | 12.45 | 4827.71 | 12250.60 | PV | <100 | LOW |
| 454 | Ram Island | | 12.46 | 4828.51 | 12249.93 | PV | <100 | LOW |
| 455 | McConnell Island | | 12.47 | 4835.65 | 12301.30 | PV | <100 | LOW |
| 456 | Reef E of Jones Island | | 12.48 | 4836.74 | 12302.16 | PV | <100 | LOW |
| 457 | East Sound/NW of Rosario | | 12.49 | 4839.16 | 12252.82 | PV | <100 | LOW |
| 458 | East Sound/NW of Rosario | | 12.49 | 4839.42 | 12254.48 | PV | <100 | LOW |
| 459 | Low Island | | 12.50 | 4835.36 | 12301.46 | PV | <100 | LOW |
| 460 | Turn Rock | | 12.51 | 4832.14 | 12257.79 | PV | <100 | LOW |

Region 12: San Juan Islands: San Juan Channel

| ID | Description |
|-----------|--|
| 406 | Intertidal rocks and reefs around Hall Island (USFWS ID 15). |
| 407 | Rock (USFWS ID 16) and intertidal reef area northwest of Hall Island. |
| 408 | On intertidal areas around Secar Rock (USFWS ID 17), east of Charles Island. |
| 409 | Intertidal areas around rock (USFWS ID 18) and reef east of Charles Island. |
| 410 | Intertidal areas around rock (USFWS ID 19) southeast of Long Island. |
| 411 | Intertidal areas around reef south of Long Island. |
| 412 | Intertidal areas around rock (USFWS ID 20) southwest of Long Island. |
| 413 | Intertidal area around reef north of Long Island. |
| 414 | Intertidal area around Mummy Rocks (USFWS ID 21). |
| 415 | Intertidal areas on Whale Rock. |
| 416 | Intertidal areas on Buck Island (USFWS ID 83). |
| 417 | Intertidal areas on rocks and reef off Davis Point. |
| 418 | Intertidal areas on Deadman Island. |
| 419 | Intertidal areas around north end of Goose Island. |
| 420 | Intertidal areas on Shark Reef (USFWS ID 23). |
| 421 | Intertidal areas on Harbor Rock (USFWS ID 24). |
| 422 | Intertidal areas on North Pacific Rocks (USFWS ID 25). |
| 423 | Intertidal areas on Halftide Rocks (USFWS ID 26). |
| 424 | Intertidal areas off Low Point. |
| 425 | Intertidal reefs and rocks just south of Dinner Island (USFWS ID 74). |
| 426 | Intertidal reefs and rocks in North Bay (northwest of Dinner Island). |
| 427 | Intertidal reefs off Pear Point. |
| 428 | Intertidal reefs off Pear Point. |
| 429 | Intertidal reefs just north of Pear Point. |
| 430 | Intertidal areas around Danger Rock. |
| 431 | Intertidal rock (USFWS ID 51) and reef area off Reef Point. |
| 432 | Intertidal areas on rocks in Hicks Bay. |
| 433 | Intertidal areas on rocks northeast of Point George. |
| 434 | Intertidal areas on Tift Rocks (south of Neck Point). |
| 435 | Intertidal areas on rocks east of Neck Point. |
| 436 | Intertidal areas on Bell Island. |
| 437 | Intertidal reef area west of Cliff Island. |
| 438 | Intertidal areas on Nob Island. |
| 439 | Intertidal areas on Bird Rock (USFWS ID 68). |
| 440 | Intertidal areas on Reef Island. |
| 441 | Intertidal areas on rocks and reef west of Yellow Island (USFWS ID 69). |
| 442 | Intertidal areas on reef in west Rocky Bay. |
| 443 | Intertidal areas on O'Neil Island in Rocky Bay. |
| 444 | Intertidal areas on Blind Island. |
| 445 | Intertidal areas on rocks and reefs around Blind Island. |
| 446 | Intertidal rocks and reef south of Grindstone Harbor. |
| 447 | Intertidal areas on Shag Rock (USFWS ID 53). |
| 448 | Intertidal areas around Twin Rocks in East Sound. |
| 449 | Intertidal areas around Leo Reef. |
| 450 | Intertidal areas around Flower Island (USFWS ID 54). |
| 451 | Intertidal areas around Willow Island (USFWS ID 55). |
| 452 | Intertidal areas on Small Island (USFWS ID 1). |
| 453 | Intertidal areas on Crab Island (USFWS ID 5). |
| 454 | Intertidal areas on Ram Island. |
| 455 | Intertidal areas around McConnell Island. |
| 456 | Intertidal reef areas on east side of Jones Island. |
| 457 | Intertidal reefs and rocks in East Sound. |
| 458 | Intertidal reef areas on west side of East Sound. |
| 459 | Intertidal areas around Low Island. |
| 460 | Intertidal areas on Turn Rock. |

San Juan Islands

Map 12A: San Juan Channel-East Sound



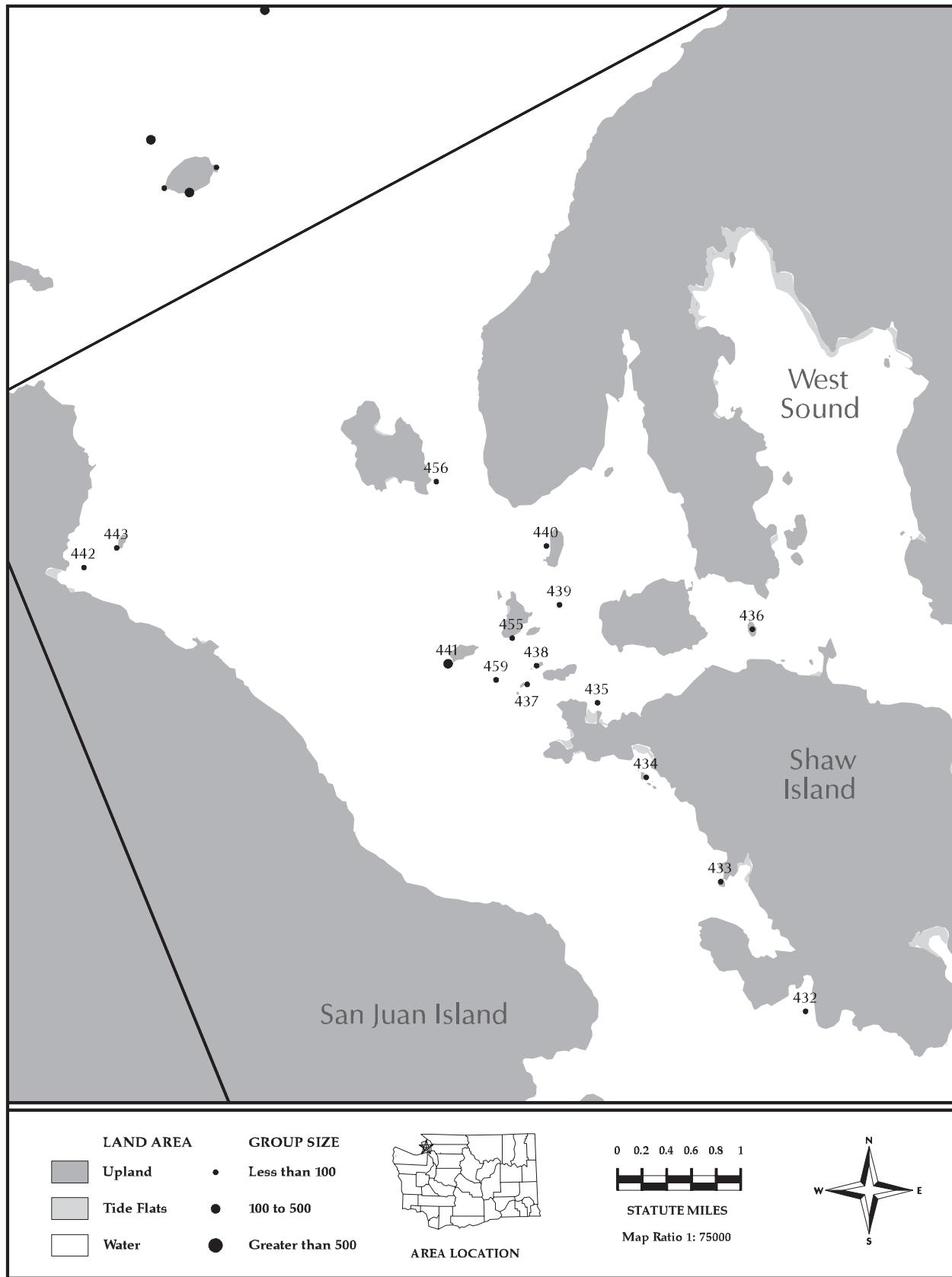
San Juan Islands
Map 12A: San Juan Channel-East Sound

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|--------------------------|-----------------|------------------|----------------|--|
| 444 | Blind Island | 48 35.21 | 122 56.33 | PV | Intertidal areas on Blind Island. |
| 445 | Blind Island | 48 35.12 | 122 56.13 | PV | Intertidal areas on rocks and reefs around Blind Island. |
| 446 | S of Grindstone Harbor | 48 35.49 | 122 54.07 | PV | Intertidal rocks and reef south of Grindstone Harbor. |
| 447 | Shag Rock | 48 35.50 | 122 52.43 | PV | Intertidal areas on Shag Rock (USFWS ID 53). |
| 448 | East Sound/Twin Rocks | 48 36.94 | 122 51.82 | PV | Intertidal areas around Twin Rocks in East Sound. |
| 457 | East Sound/NW of Rosario | 48 39.16 | 122 52.82 | PV | Intertidal reefs and rocks in East Sound. |
| 458 | East Sound/NW of Rosario | 48 39.42 | 122 54.48 | PV | Intertidal reef areas on west side of East Sound. |



San Juan Islands

Map 12B: San Juan Channel-North



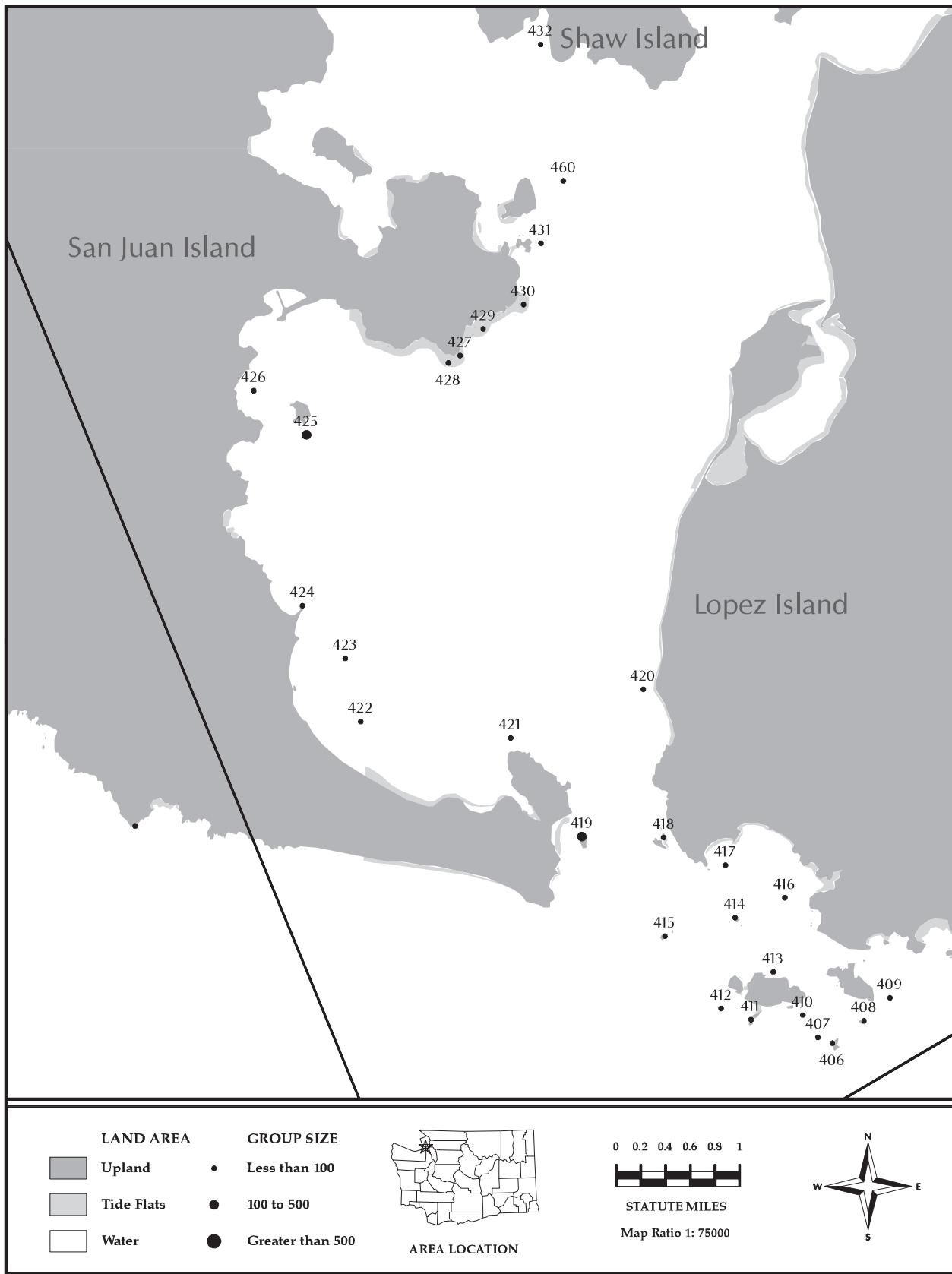
San Juan Islands
Map 12B: San Juan Channel-North

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|-----------------------------|-----------------|------------------|----------------|---|
| 432 | Rock in Hicks Bay | 48 33.10 | 122 58.07 | PV | Intertidal areas on rocks in Hicks Bay. |
| 433 | Rocks NE of Point George | 48 33.99 | 122 59.01 | PV | Intertidal areas on rocks northeast of Point George. |
| 434 | Tift Rocks, S of Neck Point | 48 34.71 | 122 59.84 | PV | Intertidal areas on Tift Rocks (south of Neck Point). |
| 435 | E Of Neck Pt, Shaw Island | 48 35.22 | 123 00.38 | PV | Intertidal areas on rocks east of Neck Point. |
| 436 | Bell Island/E of Crane Is | 48 35.77 | 122 58.76 | PV | Intertidal areas on Bell Island. |
| 437 | Reef W of Cliff Island | 48 35.33 | 123 01.13 | PV | Intertidal reef area west of Cliff Island. |
| 438 | Nob Island | 48 35.47 | 123 01.04 | PV | Intertidal areas on Nob Island. |
| 439 | Bird Rock/W of Crane Is | 48 35.90 | 123 00.82 | PV | Intertidal areas on Bird Rock (USFWS ID 68). |
| 440 | Reef Island | 48 36.31 | 123 00.97 | PV | Intertidal areas on Reef Island. |
| 441 | Rock W of Yellow Island | 48 35.46 | 123 01.97 | PV | Intertidal areas on rocks and reef west of Yellow Island (USFWS ID 69). |
| 442 | Rocky Bay | 48 36.05 | 123 05.87 | PV | Intertidal areas on reef in west Rocky Bay. |
| 443 | Rocks SW of O'Neil Island | 48 36.20 | 123 05.53 | PV | Intertidal areas on O'Neil Island in Rocky Bay. |
| 455 | McConnell Island | 48 35.65 | 123 01.30 | PV | Intertidal areas around McConnell Island. |
| 456 | Reef E of Jones Island | 48 36.74 | 123 02.16 | PV | Intertidal reef areas on east side of Jones Island. |
| 459 | Low Island | 48 35.36 | 123 01.46 | PV | Intertidal areas around Low Island. |



San Juan Islands

Map 12C: San Juan Channel-South



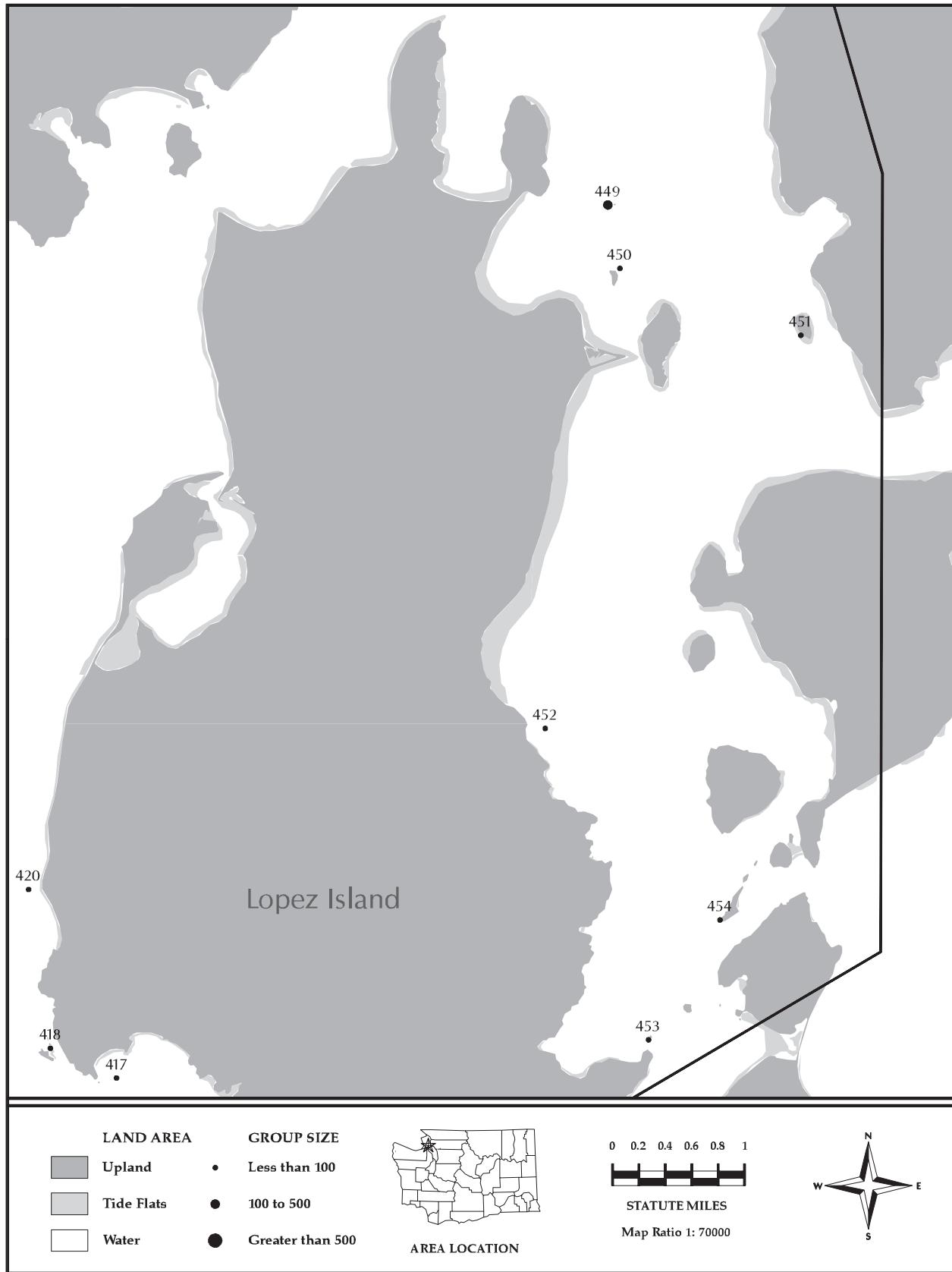
San Juan Islands
Map 12C: San Juan Channel-South

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|--------------------------|-----------------|------------------|----------------|--|
| 406 | Hall Island Area | 48 26.12 | 122 54.65 | PV | Intertidal rocks and reefs around Hall Island (USFWS ID 15). |
| 407 | Rock NW of Hall Is. | 48 26.16 | 122 54.81 | PV | Rock (USFWS ID 16) and intertidal reef area north west of Hall Island. |
| 408 | Secar Rock | 48 26.29 | 122 54.33 | PV | On intertidal areas around Secar Rock (USFWS ID 17), east of Charles Island. |
| 409 | Rocks E of Charles Is. | 48 26.45 | 122 54.07 | PV | Intertidal areas around rock (USFWS ID 18) and reef east of Charles Island. |
| 410 | SE of Long Island | 48 26.32 | 122 54.98 | PV | Intertidal areas around rock (USFWS ID 19) south east of Long Island. |
| 411 | Reef S of Long Is. | 48 26.27 | 122 55.52 | PV | Intertidal areas around reef south of Long Island. |
| 412 | SW of Long Island | 48 26.35 | 122 55.84 | PV | Intertidal areas around rock (USFWS ID 20) south west of Long Island. |
| 413 | N of Long Island | 48 26.62 | 122 55.30 | PV | Intertidal area around reef north of Long Island. |
| 414 | Mummy Rock | 48 26.99 | 122 55.73 | PV | Intertidal area around Mummy Rocks (USFWS ID 21). |
| 415 | Whale Rock | 48 26.84 | 122 56.46 | PV | Intertidal areas on Whale Rock. |
| 416 | Buck Island | 48 27.14 | 122 55.21 | PV | Intertidal areas on Buck Island (USFWS ID 83). |
| 417 | Rocks off Davis Point | 48 27.35 | 122 55.85 | PV | Intertidal areas on rocks and reef off Davis Point. |
| 418 | Deadman Island | 48 27.54 | 122 56.51 | PV | Intertidal areas on Deadman Island. |
| 419 | Goose Island | 48 27.53 | 122 57.37 | PV | Intertidal areas around north end of Goose Island. |
| 420 | Shark Reef | 48 28.58 | 122 56.77 | PV | Intertidal areas on Shark Reef (USFWS ID 23). |
| 421 | Harbor Rock | 48 28.21 | 122 58.16 | PV | Intertidal areas on Harbor Rock (USFWS ID 24). |
| 422 | North Pacific Rock | 48 28.29 | 122 59.75 | PV | Intertidal areas on North Pacific Rocks (USFWS ID 25). |
| 423 | Halftide Rocks | 48 28.73 | 122 59.93 | PV | Intertidal areas on Halftide Rocks (USFWS ID 26). |
| 424 | Low Point | 48 29.09 | 123 00.40 | PV | Intertidal areas off Low Point. |
| 425 | Reef S of Dinner Is. | 48 30.30 | 123 00.41 | PV | Intertidal reefs and rocks just south of Dinner Island (USFWS ID 74). |
| 426 | NW of Dinner Is. (N Bay) | 48 30.59 | 123 00.99 | PV | Intertidal reefs and rocks in North Bay (northwest of Dinner Island). |
| 427 | Pear Point Area | 48 30.89 | 122 58.82 | PV | Intertidal reefs off Pear Point. |
| 428 | Pear Point Area | 48 30.83 | 122 58.94 | PV | Intertidal reefs off Pear Point. |
| 429 | Pear Point Area | 48 31.08 | 122 58.58 | PV | Intertidal reefs just north of Pear Point. |
| 430 | Danger Rk/NE of Pear Pt | 48 31.26 | 122 58.16 | PV | Intertidal areas around Danger Rock. |
| 431 | Reef Point | 48 31.70 | 122 58.00 | PV | Intertidal rock (USFWS ID 51) and reef area off Reef Point. |
| 432 | Rock in Hicks Bay | 48 33.10 | 122 58.07 | PV | Intertidal areas on rocks in Hicks Bay. |
| 460 | Turn Rock | 48 32.14 | 122 57.79 | PV | Intertidal areas on Turn Rock. |



San Juan Islands

Map 12D: San Juan Channel-Lopez Sound



San Juan Islands

Map 12D: San Juan Channel-Lopez Sound

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|-----------------------|-----------------|------------------|----------------|--|
| 417 | Rocks off Davis Point | 48 27.35 | 122 55.85 | PV | Intertidal areas on rocks and reef off Davis Point. |
| 418 | Deadman Island | 48 27.54 | 122 56.51 | PV | Intertidal areas on Deadman Island. |
| 420 | Shark Reef | 48 28.58 | 122 56.77 | PV | Intertidal areas on Shark Reef (USFWS ID 23). |
| 449 | Leo Reef | 48 33.19 | 122 51.25 | PV | Intertidal areas around Leo Reef. |
| 450 | Flower Island | 48 32.78 | 122 51.11 | PV | Intertidal areas around Flower Island (USFWS ID 54). |
| 451 | Willow Island | 48 32.38 | 122 49.30 | PV | Intertidal areas around Willow Island (USFWS ID 55). |
| 452 | Small Island | 48 29.74 | 122 51.71 | PV | Intertidal areas on Small Island (USFWS ID 1). |
| 453 | Crab Island | 48 27.71 | 122 50.60 | PV | Intertidal areas on Crab Island (USFWS ID 5). |
| 454 | Ram Island | 48 28.51 | 122 49.93 | PV | Intertidal areas on Ram Island. |



Region 13: San Juan Islands: Haro Strait

Use NOAA Charts 18421 (Strait of Juan de Fuca and Strait of Georgia/Drayton Harbor), 18431 (Rosario Strait-northern part), and 18432 (Boundary Pass) 18433 (Haro Strait Middle Bank to Stuart Island) and 18434 (San Juan Channel) for navigation and bathymetry details.

Numerous harbor seal haulout sites are located on intertidal rocks, reefs and islands in this region.

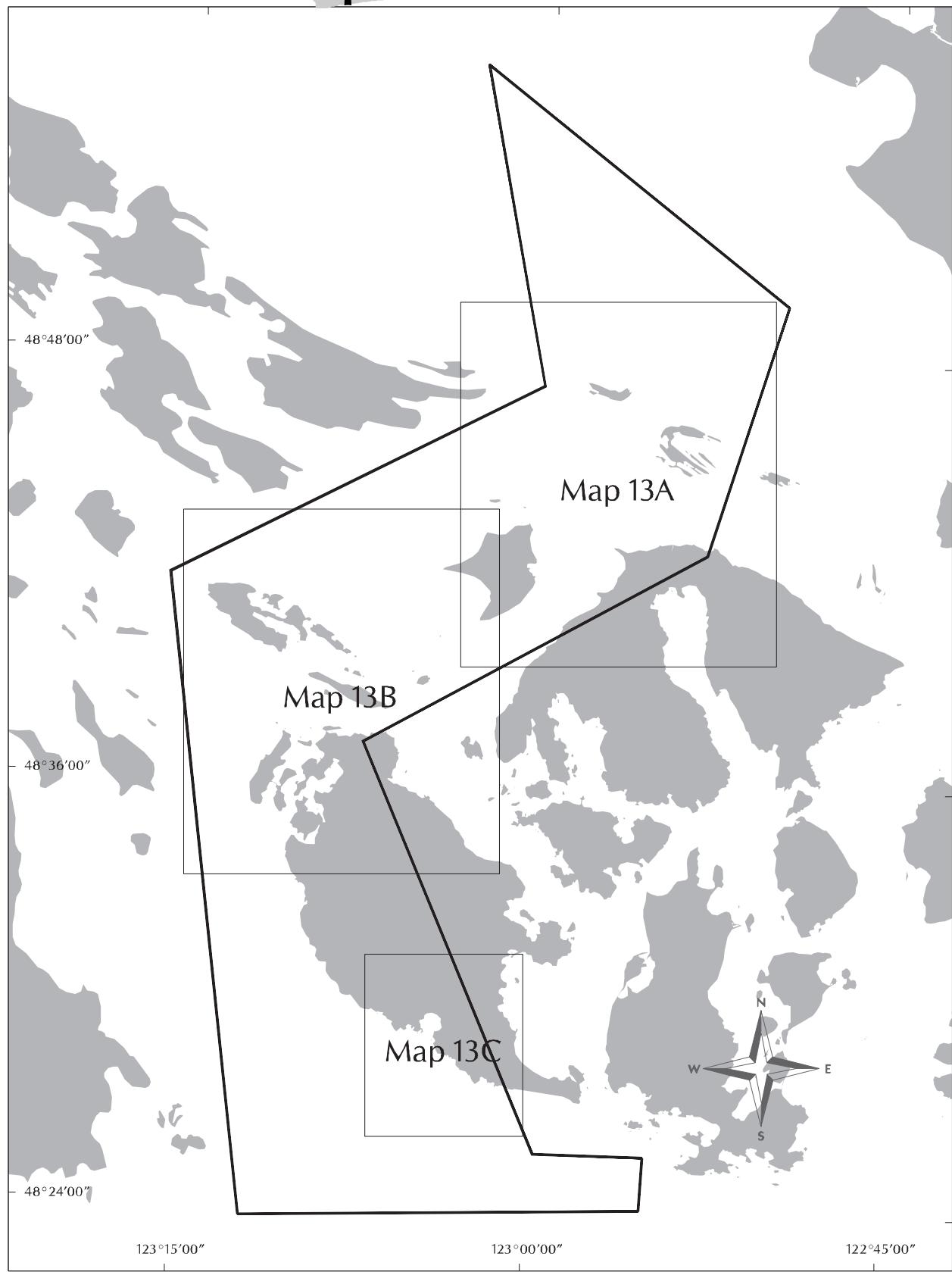
Peak counts occur during the pupping season (mid-June through August) and annual molt (mid-August through October). Small numbers of sea lions may occasionally use navigation buoys.



Harbor seals hauled out on Gull Reef at low tide, August 2, 1996.

San Juan Islands

Map 13: Haro Strait



Region 13: San Juan Islands: Haro Strait

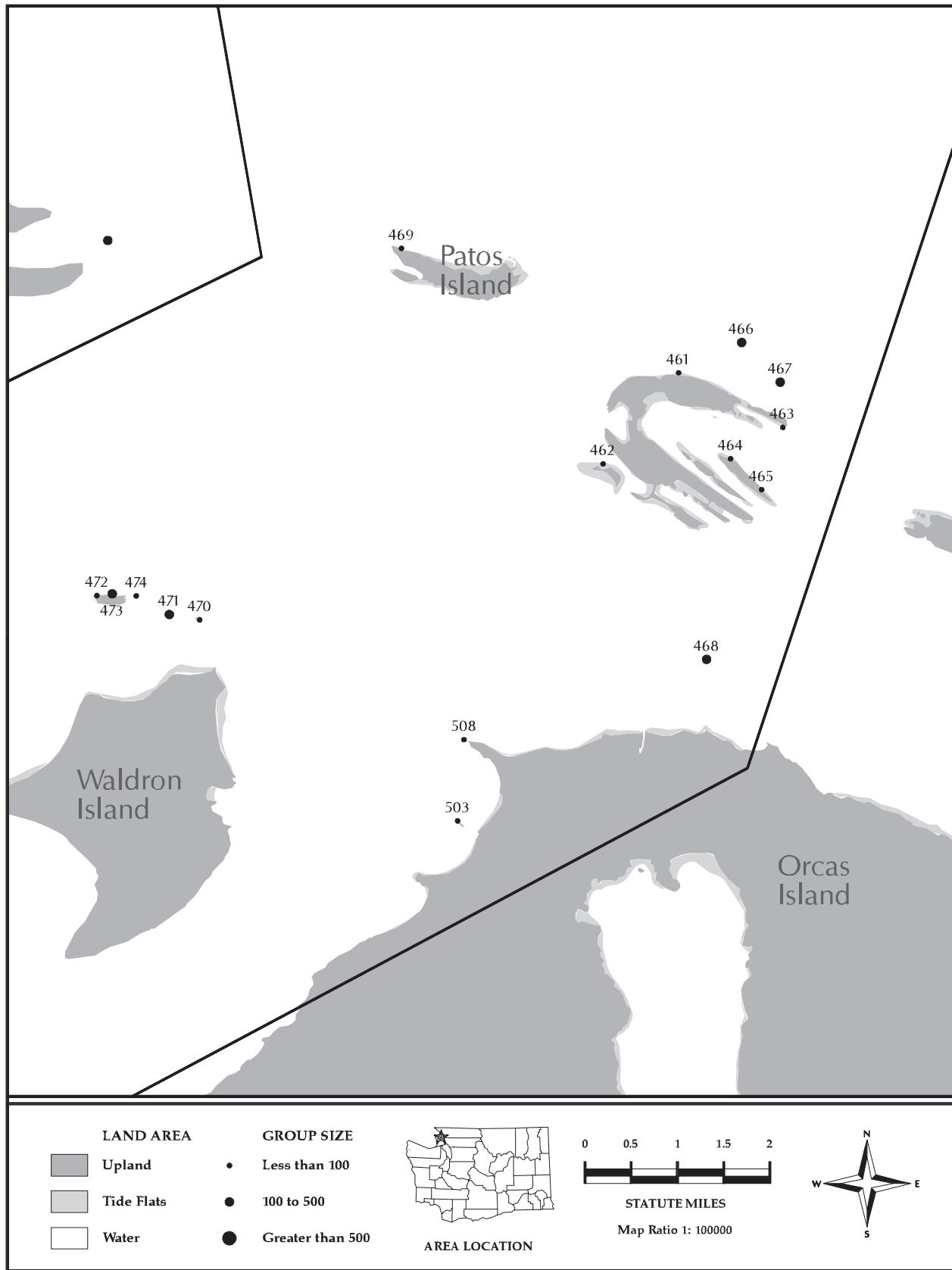
| ID | Location | Survey | Code | Latitude | Longitude | Species | Count | Use |
|-----|------------------------------|--------|-------|----------|-----------|---------|---------|-----|
| | | | | | | | | |
| 461 | Sucia Island Area | | 13.01 | 48 46.25 | 122 54.09 | PV | <100 | LOW |
| 462 | Sucia Island Area | | 13.01 | 48 45.37 | 122 55.13 | PV | <100 | LOW |
| 463 | Echo Bay, Ewing Island | | 13.02 | 48 45.77 | 122 52.58 | PV | <100 | LOW |
| 464 | Echo Bay, Finger Islands | | 13.03 | 48 45.46 | 122 53.32 | PV | <100 | LOW |
| 465 | Echo Bay, Finger Islands | | 13.03 | 48 45.17 | 122 52.86 | PV | <100 | LOW |
| 466 | Clements Reef | | 13.04 | 48 46.55 | 122 53.21 | PV | 100-500 | LOW |
| 467 | Reef SE of Clements | | 13.05 | 48 46.19 | 122 52.64 | PV | 100-500 | LOW |
| 468 | Parker Reef | | 13.06 | 48 43.56 | 122 53.57 | PV | 100-500 | LOW |
| 469 | Patos Island | | 13.07 | 48 47.34 | 122 58.09 | PV | <100 | LOW |
| 470 | Bare Island | | 13.08 | 48 43.79 | 123 0.79 | PV | <100 | LOW |
| 471 | Reef E of Skipjack Is. | | 13.09 | 48 43.83 | 123 1.22 | PV | 100-500 | LOW |
| 472 | Skipjack Island | | 13.11 | 48 43.98 | 123 2.26 | PV | <100 | LOW |
| 473 | Skipjack Island | | 13.11 | 48 44.00 | 123 2.04 | PV | 100-500 | LOW |
| 474 | Reef E of Skipjack | | 13.11 | 48 43.99 | 123 1.70 | PV | <100 | LOW |
| 475 | White Rock Area | | 13.12 | 48 40.27 | 123 4.43 | PV | <100 | LOW |
| 476 | White Rock Area | | 13.12 | 48 40.18 | 123 4.31 | PV | 100-500 | LOW |
| 477 | White Rock Area | | 13.12 | 48 40.01 | 123 4.15 | PV | 100-500 | LOW |
| 478 | White Rock Area | | 13.12 | 48 40.09 | 123 4.21 | PV | <100 | LOW |
| 479 | Flattop Island | | 13.13 | 48 38.74 | 123 5.15 | PV | <100 | LOW |
| 480 | Fflattop Island | | 13.13 | 48 38.89 | 123 4.60 | PV | <100 | LOW |
| 481 | Flattop Island | | 13.13 | 48 38.71 | 123 4.88 | PV | 100-500 | LOW |
| 482 | Gull Rock | | 13.14 | 48 39.07 | 123 5.31 | PV | 100-500 | LOW |
| 483 | Stuart Is./Reid Harbor | | 13.15 | 48 39.80 | 123 10.04 | PV | <100 | LOW |
| 484 | Satellite Is./Prevost Harbor | | 13.16 | 48 40.68 | 123 11.00 | PV | <100 | LOW |
| 485 | Ripple Island | | 13.17 | 48 39.38 | 123 7.79 | PV | 100-500 | LOW |
| 486 | Gull Reff | | 13.18 | 48 39.29 | 123 8.72 | PV | <100 | LOW |
| 487 | Shag Reef | | 13.19 | 48 39.26 | 123 7.92 | PV | <100 | LOW |
| 488 | Little Cactus Island | | 13.20 | 48 39.02 | 123 8.05 | PV | <100 | LOW |
| 489 | Cactus Island Area | | 13.21 | 48 38.89 | 123 7.67 | PV | <100 | LOW |
| 490 | Cactus Island Area | | 13.21 | 48 38.90 | 123 7.51 | PV | <100 | LOW |
| 491 | Rocks SE of Cactus | | 13.22 | 48 38.89 | 123 7.43 | PV | <100 | LOW |
| 492 | Rf Betw Gull Rf & Cactus | | 13.23 | 48 39.22 | 123 8.50 | PV | <100 | LOW |
| 493 | Sentinel Island | | 13.24 | 48 38.41 | 123 9.07 | PV | <100 | LOW |
| 494 | Sentinel Rock | | 13.25 | 48 38.41 | 123 9.35 | PV | 100-500 | LOW |
| 495 | Posey Is, Reef N of Pearl | | 13.26 | 48 37.12 | 123 9.97 | PV | <100 | LOW |
| 496 | Barren Island | | 13.27 | 48 37.39 | 123 9.58 | PV | <100 | LOW |
| 497 | Battleship Island | | 13.28 | 48 37.46 | 123 11.01 | PV | 100-500 | LOW |
| 498 | Rocks off Mccracken Pt | | 13.29 | 48 37.19 | 123 10.82 | PV | <100 | LOW |
| 499 | So Henry Island Area | | 13.30 | 48 34.94 | 123 10.19 | PV | <100 | LOW |
| 500 | So Henry Island Area | | 13.30 | 48 35.01 | 123 10.76 | PV | <100 | LOW |
| 501 | Mosquito Pass Area | | 13.31 | 48 35.86 | 123 10.15 | PV | <100 | LOW |
| 502 | False Bay Area | | 13.32 | 48 28.87 | 123 4.58 | PV | <100 | LOW |
| 503 | Freeman Island | | 13.33 | 48 41.97 | 122 57.04 | PV | <100 | LOW |
| 504 | Speiden Island | | 13.34 | 48 38.48 | 123 8.56 | PV | <100 | LOW |
| 505 | Speiden Island | | 13.34 | 48 38.37 | 123 8.31 | PV | <100 | LOW |
| 506 | Speiden Island | | 13.34 | 48 38.31 | 123 8.15 | PV | <100 | LOW |
| 507 | Eagle Point Area | | 13.35 | 48 27.50 | 123 2.09 | PV | <100 | LOW |
| 508 | Pt. Doughty | | 13.36 | 48 42.74 | 122 56.98 | PV | <100 | LOW |

Region 13: San Juan Islands: Haro Strait

| <u>ID</u> | <u>Description</u> |
|-----------|--|
| 461 | Intertidal ledges along north side of island. |
| 462 | Intertidal rocks off southwest side of island. |
| 463 | Intertidal areas during pupping season. |
| 464 | Intertidal ledges along north side of island. |
| 465 | Intertidal ledges along south east side of island. |
| 466 | Intertidal areas on reef (USFWS ID 44). |
| 467 | Intertidal areas on reef (USFWS ID 45) south east of Clements Reef. |
| 468 | Intertidal areas on reef (USFWS ID 46). |
| 469 | Intertidal ledges and reef areas on north side. |
| 470 | Intertidal ledges around Bare Island (USFWS ID 84). |
| 471 | Intertidal reef area between Bare and Skipjack Islands. |
| 472 | Intertidal ledges on northwest side of island (USFWS ID 42). |
| 473 | Intertidal ledges on northeast side of island (USFWS ID 42). |
| 474 | Intertidal ledges and reef area around unnamed rock (USFWS ID 43) east of the Skipjack Island. |
| 475 | Intertidal areas on the north White Rock (USFWS ID 40). |
| 476 | Intertidal areas on the middle White Rock (USFWS ID 40). |
| 477 | Intertidal areas on the south White Rock (USFWS ID 40). |
| 478 | Intertidal areas on the reef off the south end of White Rock. |
| 479 | Intertidal areas on west end of Flattop Island (USFWS ID 39). |
| 480 | Intertidal areas on east end of island. |
| 481 | Intertidal ledges and reef on south side of island. |
| 482 | Intertidal areas around rock (USFWS ID 38). |
| 483 | Intertidal ledges and reefs around entrance into Reid Harbor. |
| 484 | Intertidal ledges and reef areas around Satellite Island in Prevost Harbor. |
| 485 | Intertidal areas around island (USFWS ID 35). |
| 486 | Intertidal rocks and reef areas around Gull Reef (USFWS ID 34). |
| 487 | Intertidal areas around Shag Reef (USFWS ID 36). |
| 488 | Intertidal ledges and rocks around Little Cactus Island (USFSW ID 37). |
| 489 | Intertidal ledges and reef areas on south side of Cactus Island. |
| 490 | Intertidal ledges and reef areas on east end of Cactus Island. |
| 491 | Intertidal rocks and reef areas off southeast end of Cactus Island. |
| 492 | Intertidal rocks and reef areas between Gull Reef and Little Cactus Island. |
| 493 | Intertidal ledges around Sentinel Island. |
| 494 | Intertidal rocks and reef areas around Sentinel Rock (USFWS ID 32). |
| 495 | Intertidal rocks and reef areas on north side of Pearl Island. |
| 496 | Intertidal rocks and reef areas around Barren Island (USFWS ID 30). |
| 497 | Intertidal ledges and reef areas around Battleship Island (USFWS ID 31). |
| 498 | Intertidal rocks and reef areas southwest of McCracken Point. |
| 499 | Intertidal rocks and reef areas around south entrance to Mosquito Pass. |
| 500 | Intertidal rocks and reef areas off southeast end of Henry Island. |
| 501 | Intertidal rocks and reef areas along Mosquito Pass. |
| 502 | Intertidal rocks and reef area on unnamed rock (USFWS ID 27) off False Bay. |
| 503 | Intertidal ledges and reef areas around Freeman Island. |
| 504 | Intertidal ledges on south side of Speiden Island. |
| 505 | Intertidal ledges on south side of Speiden Island. |
| 506 | Intertidal ledges on south side of Speiden Island. |
| 507 | Intertidal rocks and reef areas off Eagle Point. |
| 508 | Intertidal ledges and rocks along south side of Point Doughty. |

San Juan Islands

Map 13A: Haro Strait-North

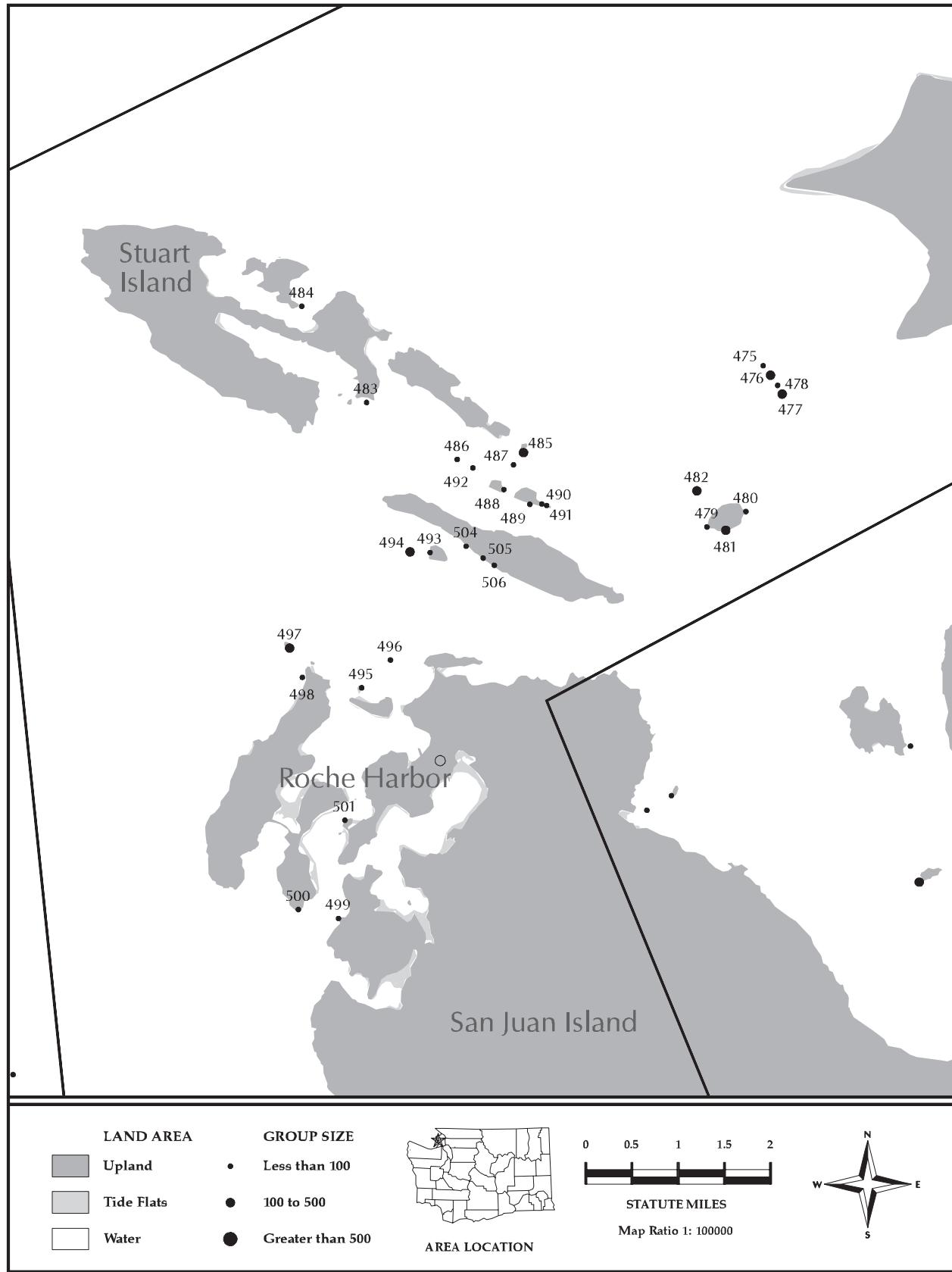


San Juan Islands
Map 13A: Haro Strait-North

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|--------------------------|-----------------|------------------|----------------|--|
| 461 | Sucia Island Area | 4846.25 | 12254.09 | PV | Intertidal ledges along north side of island. |
| 462 | Sucia Island Area | 4845.37 | 12255.13 | PV | Intertidal rocks off southwest side of island. |
| 463 | Echo Bay, Ewing Island | 4845.77 | 12252.58 | PV | Intertidal areas during pupping season. |
| 464 | Echo Bay, Finger Islands | 4845.46 | 12253.32 | PV | Intertidal ledges along north side of island. |
| 465 | Echo Bay, Finger Islands | 4845.17 | 12252.86 | PV | Intertidal ledges along south east side of island. |
| 466 | Clements Reef | 4846.55 | 12253.21 | PV | Intertidal areas on reef (USFWS ID 44). |
| 467 | Reef SE of Clements | 4846.19 | 12252.64 | PV | Intertidal areas on reef (USFWS ID 45) south east of Clements Reef. |
| 468 | Parker Reef | 4843.56 | 12253.57 | PV | Intertidal areas on reef (USFWS ID 46). |
| 469 | Patos Island | 4847.34 | 12258.09 | PV | Intertidal ledges and reef areas on north side. |
| 470 | Bare Island | 4843.79 | 12300.79 | PV | Intertidal ledges around Bare Island (USFWS ID 84). |
| 471 | Reef E of Skipjack Is. | 4843.83 | 12301.22 | PV | Intertidal reef area between Bare and Skipjack Islands. |
| 472 | Skipjack Island | 4843.98 | 12302.26 | PV | Intertidal ledges on northwest side of island (USFWS ID 42). |
| 473 | Skipjack Island | 4844.00 | 12302.04 | PV | Intertidal ledges on northeast side of island (USFWS ID 42). |
| 474 | Reef E of Skipjack | 4843.99 | 12301.70 | PV | Intertidal ledges and reef area around unnamed rock (USFWS ID 43) east of the Skipjack Island. |
| 503 | Freeman Island | 4841.97 | 12257.04 | PV | Intertidal ledges and reef areas around Freeman Island. |
| 508 | Pt. Doughty | 4842.74 | 12256.98 | PV | Intertidal ledges and rocks along south side of Point Doughty. |

San Juan Islands

Map 13B: Haro Strait-Central



San Juan Islands
Map 13B: Haro Strait-Central

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|------------------------------|-----------------|------------------|----------------|---|
| 475 | White Rock Area | 48 40.27 | 123 04.43 | PV | Intertidal areas on the north White Rock (USFWS ID 40). |
| 476 | White Rock Area | 48 40.18 | 123 04.31 | PV | Intertidal areas on the middle White Rock (USFWS ID 40). |
| 477 | White Rock Area | 48 40.01 | 123 04.15 | PV | Intertidal areas on the south White Rock (USFWS ID 40). |
| 478 | White Rock Area | 48 40.09 | 123 04.21 | PV | Intertidal areas on the reef off the south end of White Rock. |
| 479 | Flattop Island | 48 38.74 | 123 05.15 | PV | Intertidal areas on west end of Flattop Island (USFWS ID 39). |
| 480 | Flattop Island | 48 38.89 | 123 04.60 | PV | Intertidal areas on east end of island. |
| 481 | Flattop Island | 48 38.71 | 123 04.88 | PV | Intertidal ledges and reef on south side of island. |
| 482 | Gull Rock | 48 39.07 | 123 05.31 | PV | Intertidal areas around rock (USFWS ID 38). |
| 483 | Stuart Is./Reid Harbor | 48 39.80 | 123 10.04 | PV | Intertidal ledges and reefs around entrance into Reid Harbor. |
| 484 | Satellite Is./Prevost Harbor | 48 40.68 | 123 11.00 | PV | Intertidal ledges and reef areas around Satellite Island in Prevost Harbor. |
| 485 | Ripple Island | 48 39.38 | 123 07.79 | PV | Intertidal areas around island (USFWS ID 35). |
| 486 | Gull Reef | 48 39.29 | 123 08.72 | PV | Intertidal rocks and reef areas around Gull Reef (USFWS ID 34). |
| 487 | Shag Reef | 48 39.26 | 123 07.92 | PV | Intertidal areas around Shag Reef (USFWS ID 36). |
| 488 | Little Cactus Island | 48 39.02 | 123 08.05 | PV | Intertidal ledges and rocks around Little Cactus Island (USFSW ID 37). |
| 489 | Cactus Island Area | 48 38.89 | 123 07.67 | PV | Intertidal ledges and reef areas on south side of Cactus Island. |
| 490 | Cactus Island Area | 48 38.90 | 123 07.51 | PV | Intertidal ledges and reef areas on east end of Cactus Island. |
| 491 | Rocks SE of Cactus | 48 38.89 | 123 07.43 | PV | Intertidal rocks and reef areas off southeast end of Cactus Island. |
| 492 | Rf Betw Gull Rf & Cactus | 48 39.22 | 123 08.50 | PV | Intertidal rocks and reef areas between Gull Reef and Little Cactus Island. |
| 493 | Sentinel Island | 48 38.41 | 123 09.07 | PV | Intertidal ledges around Sentinel Island. |
| 494 | Sentinel Rock | 48 38.41 | 123 09.35 | PV | Intertidal rocks and reef areas around Sentinel Rock (USFWS ID 32). |
| 495 | Posey Is, Reef N of Pearl | 48 37.12 | 123 09.97 | PV | Intertidal rocks and reef areas on north side of Pearl Island. |
| 496 | Barren Island | 48 37.39 | 123 09.58 | PV | Intertidal rocks and reef areas around Barren Island (USFWS ID 30). |
| 497 | Battleship Island | 48 37.46 | 123 11.01 | PV | Intertidal ledges and reef areas around Battleship Island (USFWS ID 31). |
| 498 | Rocks off Mccracken Pt | 48 37.19 | 123 10.82 | PV | Intertidal rocks and reef areas southwest of McCracken Point. |
| 499 | So Henry Island Area | 48 34.94 | 123 10.19 | PV | Intertidal rocks and reef areas around south entrance to Mosquito Pass. |
| 500 | So Henry Island Area | 48 35.01 | 123 10.76 | PV | Intertidal rocks and reef areas off southeast end of Henry Island. |
| 501 | Mosquito Pass Area | 48 35.86 | 123 10.15 | PV | Intertidal rocks and reef areas along Mosquito Pass. |
| 504 | Speiden Island | 48 38.48 | 123 08.56 | PV | Intertidal ledges on south side of Speiden Island. |
| 505 | Speiden Island | 48 38.37 | 123 08.31 | PV | Intertidal ledges on south side of Speiden Island. |
| 506 | Speiden Island | 48 38.31 | 123 08.15 | PV | Intertidal ledges on south side of Speiden Island. |

San Juan Islands

Map 13C: Haro Strait-South



San Juan Islands
Map 13C: Haro Strait-South

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|------------------|------------------------|------------------------|-------------------------|-----------------------|---|
| 502 | False Bay Area | 48 28.87 | 123 04.58 | PV | Intertidal rocks and reef area on unnamed rock (USFWS ID 27) off False Bay. |
| 507 | Eagle Point Area | 48 27.50 | 123 02.09 | PV | Intertidal rocks and reef areas off Eagle Point. |

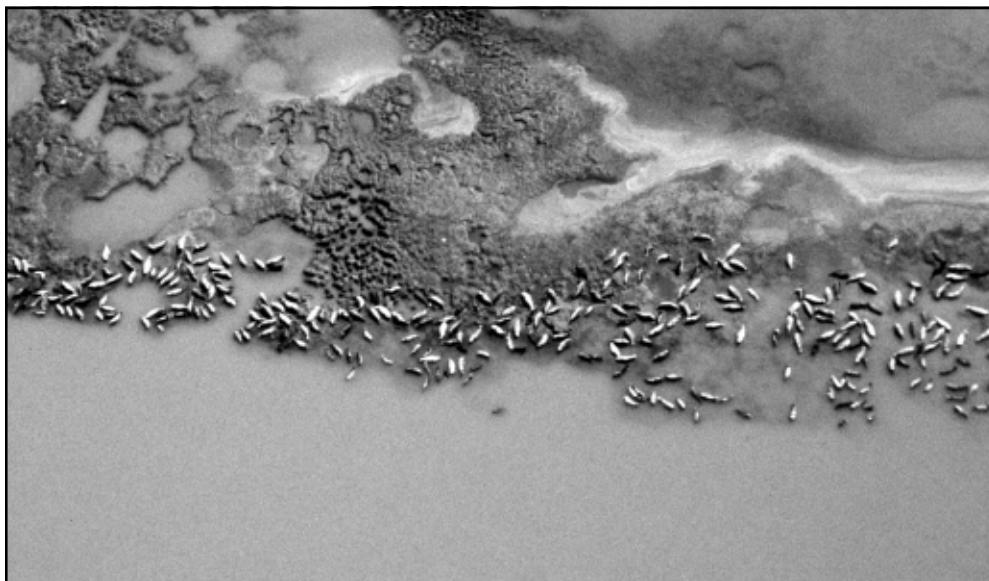


Region 14: British Columbia

Use NOAA Charts 18400 (Strait of Georgia and Strait of Juan de Fuca), 18421 (Strait of Juan de Fuca and Strait of Georgia/Drayton Harbor), 18465 (Strait of Juan de Fuca-eastern part) for navigation and bathymetry details.

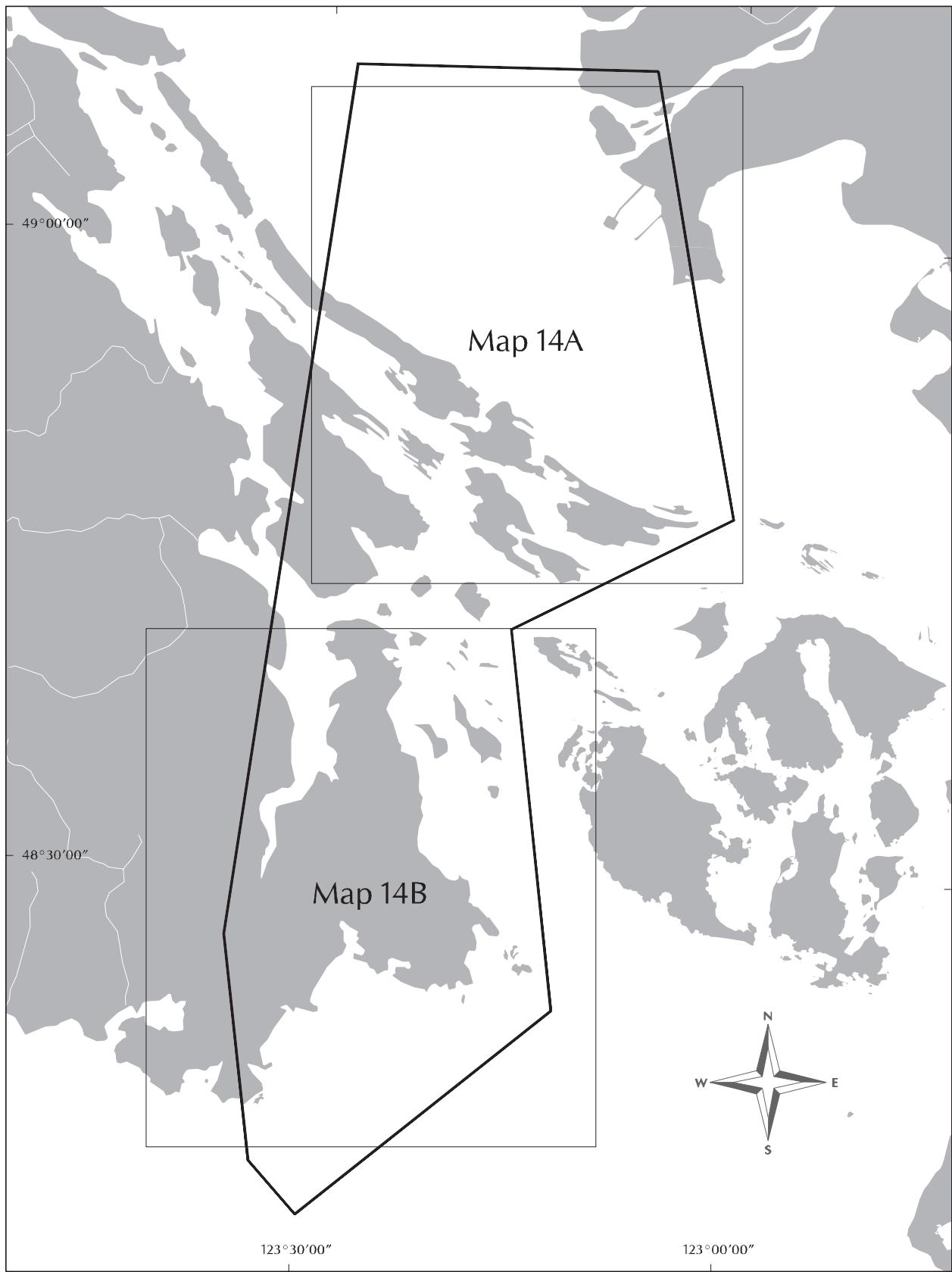
Numerous harbor seal haulout sites are located on intertidal rocks, reefs, and islands in this region. Peak counts occur during the pupping season (mid-June through August) and annual molt (mid-August through October). The primary sea lion haulout sites, which are used by both Steller and California sea lions, are located at Race Rocks and Trial Island (off Victoria). Additional sites used by sea lions during the spring are located at the Belle Chain and at Sand Heads.

Note: Pinniped haulout sites identified in this region are only those sites adjacent to Washington waters and do not represent all sites in British Columbia waters. Users of this atlas are directed to consult the Department of Fisheries and Oceans, Pacific Biological Station and Nanaimo, British Columbia for additional sites and details on other haulout sites in British Columbia waters.



Harbor seals hauled out along Fraser River near Steveston, April 17, 1997

British Columbia Region 14



Region 14: British Columbia

| <u>ID</u> | <u>Location</u> | <u>Survey Code</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Count</u> | <u>Use</u> |
|-----------|----------------------------|--------------------|-----------------|------------------|----------------|--------------|------------|
| 509 | Boiling Reef | 14.01 | 48 47.33 | 123 2.27 | PV | 100-500 | LOW |
| 510 | Race Rocks | 14.02 | 48 17.79 | 123 31.76 | PV,ZC,EJ | 100-500 | LOW |
| 511 | Chain Islets | 14.03 | 48 25.24 | 123 15.83 | PV | 100-500 | LOW |
| 512 | Trial Island | 14.04 | 48 24.29 | 123 17.97 | PV,ZC,EJ | 100-500 | LOW |
| 513 | Kelp Reefs | 14.05 | 48 33.37 | 123 14.72 | PV | <100 | LOW |
| 514 | D'Arcy Island | 14.06 | 48 33.25 | 123 16.62 | PV | <100 | LOW |
| 515 | Sallas Rocks | 14.07 | 48 35.11 | 123 17.46 | PV | 100-500 | LOW |
| 516 | Little D'Arcy | 14.08 | 48 34.24 | 123 15.55 | PV | <100 | LOW |
| 517 | Cooper Reef | 14.09 | 48 40.38 | 123 16.33 | PV | 100-500 | LOW |
| 518 | Java Islets | 14.10 | 48 45.57 | 123 6.21 | PV | <100 | LOW |
| 519 | Tumbo Island Area | 14.11 | 48 47.98 | 123 5.59 | PV | <100 | LOW |
| 520 | Tumbo Island Area | 14.11 | 48 48.19 | 123 6.76 | PV | <100 | LOW |
| 521 | Belle Chain Area | 14.12 | 48 49.57 | 123 10.54 | PV,EJ | 100-500 | LOW |
| 522 | Belle Chain Area | 14.12 | 48 49.67 | 123 11.56 | PV | <100 | LOW |
| 523 | Belle Chain Area | 14.12 | 48 50.42 | 123 12.65 | PV | <100 | LOW |
| 524 | Gossip Island | 14.13 | 48 53.52 | 123 18.74 | PV | <100 | LOW |
| 525 | Fraser R./Roberts Bank | 14.14 | 49 6.64 | 123 11.97 | PV | 100-500 | LOW |
| 526 | Fraser R./Roberts Bank | 14.14 | 49 6.24 | 123 11.51 | PV | 100-500 | LOW |
| 527 | Fraser R./Roberts Bank | 14.14 | 49 3.88 | 123 11.78 | PV | 100-500 | LOW |
| 528 | Fraser R./Roberts Bank | 14.14 | 49 4.15 | 123 9.81 | PV | <100 | LOW |
| 529 | Tsawwassen Ferry | 14.15 | 49 0.67 | 123 6.77 | PV | <100 | LOW |
| 530 | Se Mayne/Edith Point | 14.16 | 48 51.41 | 123 15.17 | PV | <100 | LOW |
| 531 | Fraser R./Sand Heads Jetty | 14.17 | 49 6.41 | 123 18.01 | ZC | 100-500 | ALL |

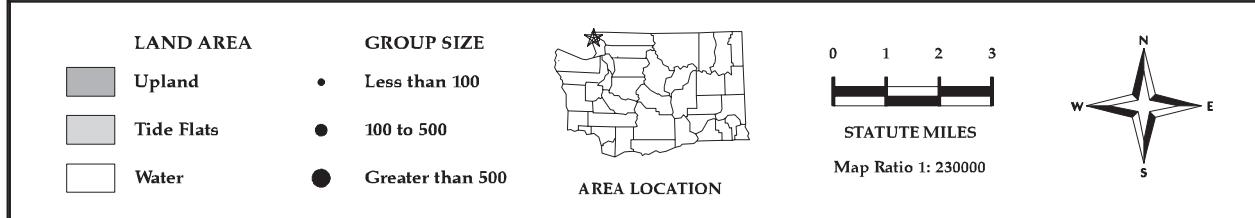
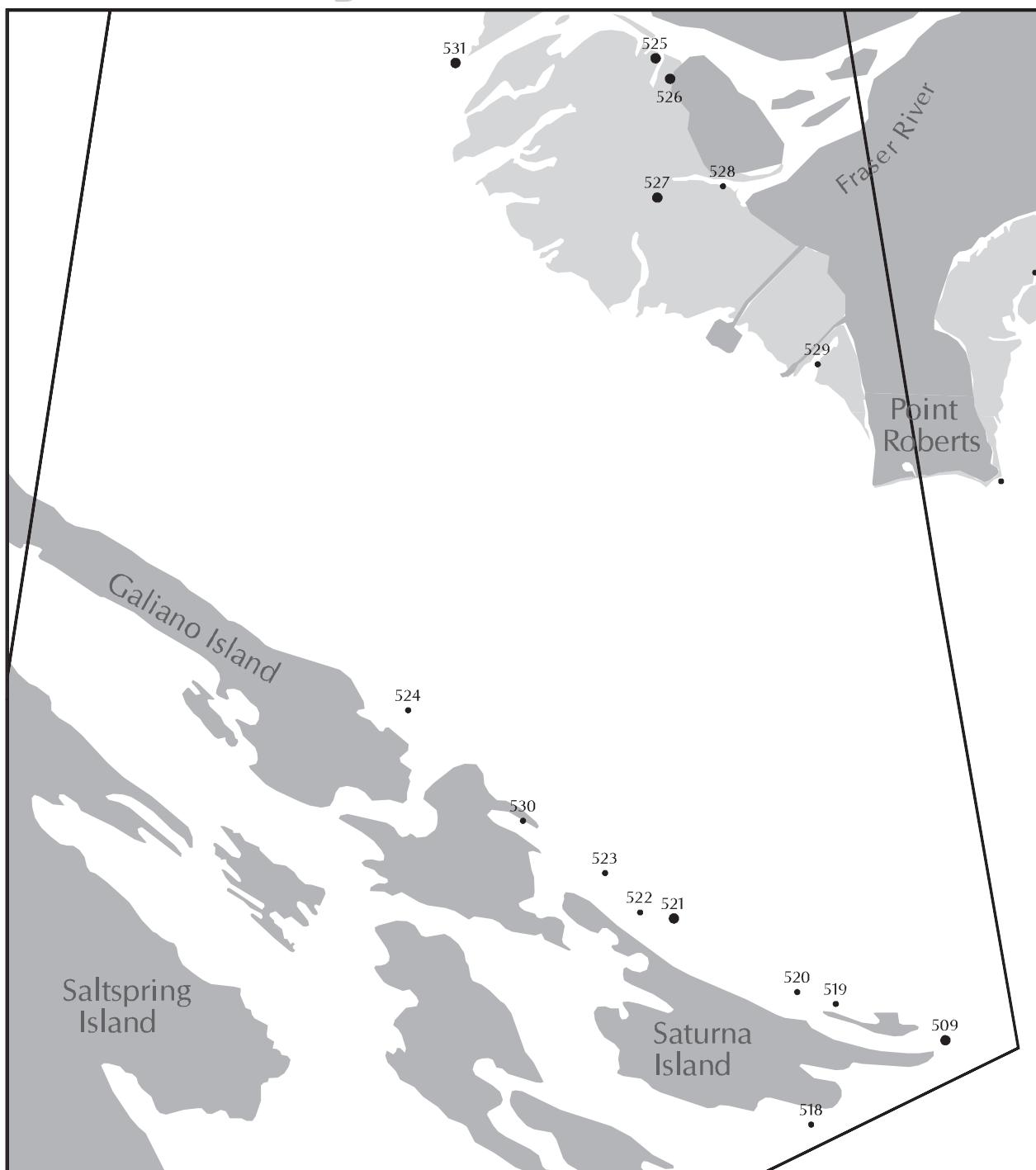
Region 14: British Columbia

| <u>ID</u> | <u>Description</u> |
|-----------|---|
| 509 | Intertidal rocks and reef areas around Boiling Reef. |
| 510 | Intertidal rocks and reef areas around Race Rocks. |
| 511 | On scattered intertidal rocks and reef areas around Chain Islets. |
| 512 | Intertidal rocks and reef areas around Trail Island. |
| 513 | Intertidal rocks and reef areas around Kelp Reef. |
| 514 | Intertidal rocks and reef areas around D'Arcy Island. |
| 515 | Intertidal rocks and reef areas around Sallas Rocks. |
| 516 | Intertidal rocks and reef areas around Little D'Arcy Island. |
| 517 | Intertidal rocks and reef areas around Cooper Reef. |
| 518 | Intertidal rocks and reef areas around the Java Islets. |
| 519 | Intertidal rocks and reef areas off west end of Tumbo Island. |
| 520 | Intertidal rocks and reef areas off west end of Tumbo Island. |
| 521 | Intertidal rocks and reef areas of the Belle Chain. |
| 522 | Intertidal rocks and reef areas just west of Belle Chain. |
| 523 | Intertidal rocks and reef areas on north end of Belle Chain. |
| 524 | Intertidal ledges and reef areas around Gossip Island. |
| 525 | Intertidal channels and shoals along Reifel Island. |
| 526 | Intertidal channels and shoals along southeast side of Reifel Island. |
| 527 | Intertidal channels and shoals on Roberts Bank. |
| 528 | Intertidal channels and shoals on Roberts Bank. |
| 529 | Intertidal areas around jetty just south of Tswwassen ferry terminal. |
| 530 | Intertidal ledges and rocks off Edith Point on Mayne Island. |
| 531 | On end of jetty near Sand Heads light during spring months. |



British Columbia

Map 14A: Fraser River to Gulf Islands



British Columbia

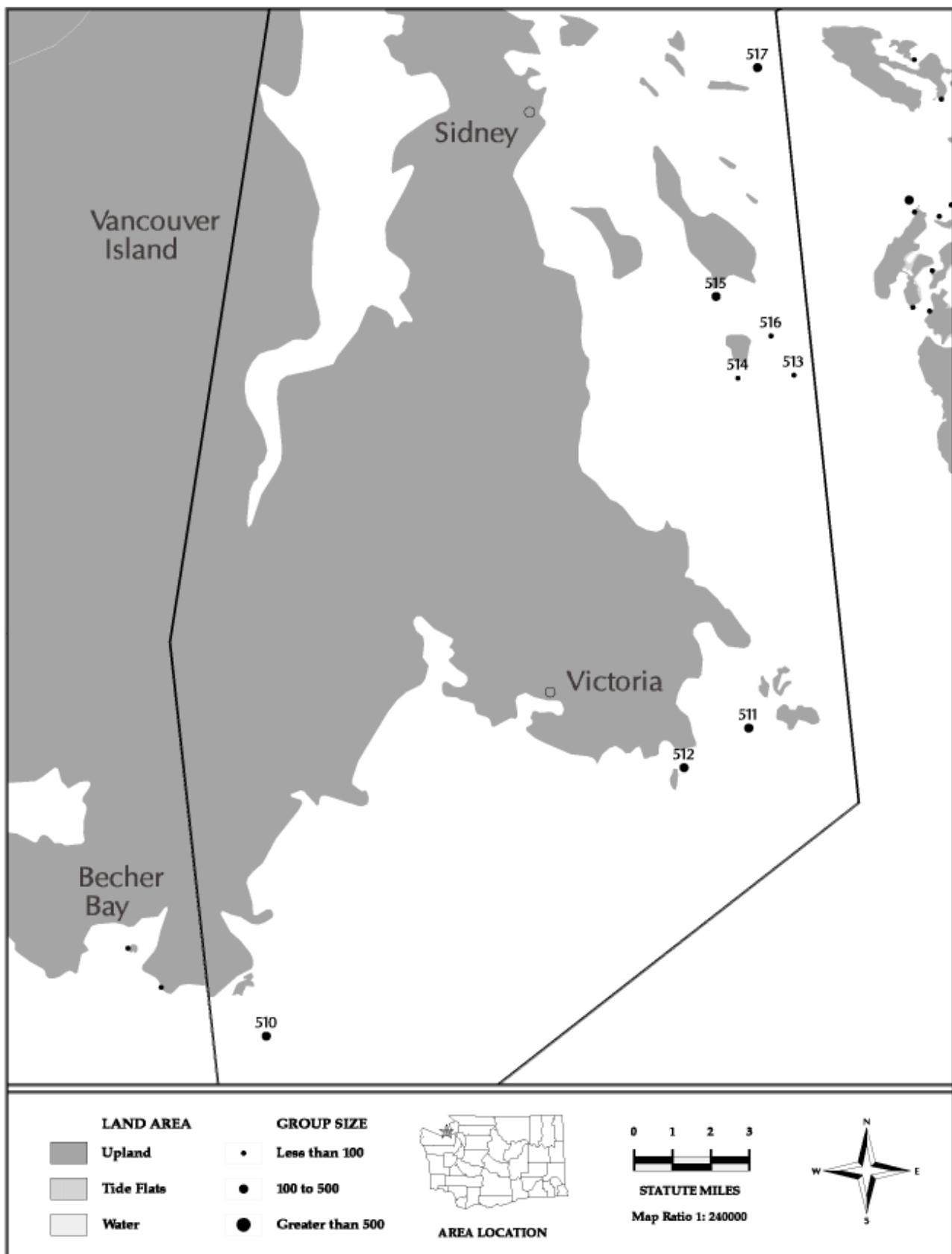
Map 14A: Fraser River to Gulf Islands

| <u>ID</u> | <u>Location</u> | <u>Latitude</u> | <u>Longitude</u> | <u>Species</u> | <u>Description</u> |
|-----------|----------------------------|-----------------|------------------|----------------|--|
| 509 | Boiling Reef | 48 47.33 | 123 02.27 | PV | Intertidal rocks and reef areas around Boiling Reef. |
| 518 | Java Islets | 48 45.57 | 123 06.21 | PV | Intertidal rocks and reef areas around the Java Islets. |
| 519 | Tumbo Island Area | 48 47.98 | 123 05.59 | PV | Intertidal rocks and reef areas off west end of Tumbo Island. |
| 520 | Tumbo Island Area | 48 48.19 | 123 06.76 | PV | Intertidal rocks and reef areas off west end of Tumbo Island. |
| 521 | Belle Chain Area | 48 49.57 | 123 10.54 | PV,EJ | Intertidal rocks and reef areas of the Belle Chain. |
| 522 | Belle Chain Area | 48 49.67 | 123 11.56 | PV | Intertidal rocks and reef areas just west of Belle Chain. |
| 523 | Belle Chain Area | 48 50.42 | 123 12.65 | PV | Intertidal rocks and reef areas on north end of Belle Chain. |
| 524 | Gossip Island | 48 53.52 | 123 18.74 | PV | Intertidal ledges and reef areas around Gossip Island. |
| 525 | Fraser R./Roberts Bank | 49 06.64 | 123 11.97 | PV | Intertidal channels and shoals along Reifel Island. |
| 526 | Fraser R./Roberts Bank | 49 06.24 | 123 11.51 | PV | Intertidal channels and shoals along southeast side of Reifel Island. |
| 527 | Fraser R./Roberts Bank | 49 03.88 | 123 11.78 | PV | Intertidal channels and shoals on Roberts Bank. |
| 528 | Fraser R./Roberts Bank | 49 04.15 | 123 09.81 | PV | Intertidal channels and shoals on Roberts Bank. |
| 529 | Tsawwassen Ferry | 49 00.67 | 123 06.77 | PV | Intertidal areas around jetty just south of Tsawwassen ferry terminal. |
| 530 | Se Mayne/Edith Point | 48 51.41 | 123 15.17 | PV | Intertidal ledges and rocks off Edith Point on Mayne Island. |
| 531 | Fraser R./Sand Heads Jetty | 49 06.41 | 123 18.01 | ZC | On end of jetty near Sand Heads light during spring months. |



Steller sea lions resting at Belle Chain, British Columbia, May 19, 1997.

British Columbia Region 14B: Gulf Islands to Race Rocks



British Columbia
Map 14B: Gulf Islands to Race Rocks

| ID | Location | Latitude | Longitude | Species | Description |
|-----------|-----------------|-----------------|------------------|----------------|---|
| 510 | Race Rocks | 48 17.79 | 123 31.76 | PV,ZC,EJ | Intertidal rocks and reef areas around Race Rocks. |
| 511 | Chain Islets | 48 25.24 | 123 15.83 | PV | On scattered intertidal rocks and reef areas around Chain Islets. |
| 512 | Trial Island | 48 24.29 | 123 17.97 | PV,ZC,EJ | Intertidal rocks and reef areas around Trail Island. |
| 513 | Kelp Reefs | 48 33.37 | 123 14.72 | PV | Intertidal rocks and reef areas around Kelp Reef. |
| 514 | D'Arcy Island | 48 33.25 | 123 16.62 | PV | Intertidal rocks and reef areas around D'Arcy Island. |
| 515 | Sallas Rocks | 48 35.11 | 123 17.46 | PV | Intertidal rocks and reef areas around Sallas Rocks. |
| 516 | Little D'Arcy | 48 34.24 | 123 15.55 | PV | Intertidal rocks and reef areas around Little D'Arcy Island. |
| 517 | Cooper Reef | 48 40.38 | 123 16.33 | PV | Intertidal rocks and reef areas around Cooper Reef. |

