

SOUTHEAST SUBAREA CONTINGENCY PLAN

POTENTIAL PLACES OF REFUGE **SECTION**

PART ONE	INTRODUCTION	H-1
	A. Purpose and Scope	H-1
	B. How to Use the Potential Places of Refuge Section	H-2
	C. References	H-3
	D. Who to Contact for Input	H-4
PART TWO	PPOR DEVELOPMENT	H-5
	A. Risk Identification	H-5
	B. Feasibility	H-6
	C. Specific Decision-Making Factors	H-6
	D. Matrix and Risk Assessment Maps	H-7
	PPOR Risk Assessment Map H-1: Locations of Bulk Fuel Storage	H-9
	PPOR Risk Assessment Map H-2: Locations of Noncrude Carrier Routes	H-10
	PPOR Risk Assessment Map H-3a: Locations of Cruise Ship Traffic	H-11
	PPOR Risk Assessment Map H-3b: Locations of Ferry Traffic	H-12
	PPOR Risk Assessment Map H-4: Locations of Hatcheries	H-13
	PPOR Risk Assessment Map H-5: Locations of Aquatic Farms	H-14
	PPOR Risk Assessment Map H-6: Locations of Spill Response Equipment ..	H-15
	PPOR Risk Assessment Map H-7: Locations of GRS	H-16
	PPOR Risk Assessment Map H-8: Locations of Major Airports	H-17
	PPOR Risk Assessment Map H-9: Locations of Major Oil Spill Events	H-18
	PPOR Risk Assessment Map H-10: All Risk Factors Combined	H-19
PART THREE	MAPS	H-21
	Figure H-11: Zone Map for Potential Places of Refuge	H-21
	Web-Links for PPOR Maps	H-22
	PPOR Map Zone 1	H-23
	PPOR Map Zone 2	H-27
	PPOR Map Zone 3	H-29
	PPOR Map Zone 4	H-31
	PPOR Map Zone 5	H-33
	PPOR Map Zone 6	H-34
	PPOR Map Zone 7	H-35
	PPOR Map Zone 8	H-37
	PPOR Map Zone 9	H-39

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POTENTIAL PLACES OF REFUGE: PART ONE – INTRODUCTION

A. PURPOSE AND SCOPE

This *Potential Places of Refuge* (PPOR) *Section* provides a decision-making tool for lead responders to employ during an unplanned or emergency event involving a vessel. A “place of refuge” is defined as a location where a vessel needing assistance can be temporarily moved to, and where actions can then be taken to stabilize the vessel, protect human life, reduce a hazard to navigation, and/or protect sensitive natural resources and other uses of the area (e.g., subsistence collection of mussels, commercial fishing, recreational boating).

A place of refuge may include constructed harbors, ports, natural embayments, potential grounding sites, or offshore waters. This section identifies potential docking, anchoring, mooring, and grounding locations that may be selected as places of refuge in the Southeast Subarea. Actual designation of a place of refuge will always be an incident-specific decision, one made through consultation but ultimately by the U.S. Coast Guard, Captain of the Port for Juneau Alaska.

The Southeast Subarea has many miles of environmentally sensitive coastline. In addition to sensitive shoreline habitats such as marshes, sheltered tidal flats, and exposed tidal flats, Southeast Alaska supports a number of sensitive biological resources, including birds, fish and shellfish, and marine mammals. Information about sensitive areas associated with PPOR may be found in the *Sensitive Areas Section* of the Southeast Subarea Contingency Plan (SCP). Response strategies to protect sensitive areas and identified locations of public concern associated with a place of refuge may be found in the *Geographic Response Strategies Section* of the SCP.

The Southeast Subarea lands are managed under a variety of land use management plans including the following:

- Northern Southeast Area Plan, October, 2002
- Revised Land Resource Management Plan for the Tongass National Forest, 1997
- City and Borough of Juneau Coastal Management Plan, 2008
- City of Craig Coastal Management Plan, 2007
- Skagway Municipality Coastal Management Plan, 2007
- City of Hoonah Coastal Management Plan, 2007
- City of Thorne Bay Coastal Management Plan, 2007
- City and Borough of Yakutat Coastal Management Plan, 2008
- City of Pelican Coastal Management Plan, 2007
- Haines Borough Coastal Management Plan, 2007
- City and Borough of Sitka Coastal Management Plan, April 8, 2007
- Ketchikan Gateway Borough, Coastal Management Plan, 2008
- Yakataga Area Plan, April 1995
- Juneau State Land Plan, December 1993
- Central/Southern Southeast Area Plan, November 2000
- Prince of Wales Area Plan, October 1998, Amended May 2008
- General Management Plan, Glacier Bay, National Park, 1984

The Southeast region of Alaska is widely used for marine commerce. Log transport ships, fuel barges, freighters, container ships, ferries, and cruise ships make routine stops at Southeast Alaska ports. Also, commercial fishing boats, sport fishing charter boats, and privately-owned vessels regularly use local

harbors and docks.

There is no perfect docking, mooring, anchoring, or grounding site for all vessels in all situations. Deep draft vessels, such as freighters and cruise ships, cannot be taken to certain locations. Some areas will have depths too deep for setting a secure anchorage. Some ports may have shallow approaches or small bays, and deep draft ships cannot enter these locations. However, shallow draft vessels, such as fishing vessels and charter vessels, may be able to utilize these shallower ports. The multitude of possible sites of refuge for these shallow draft vessels in Southeast Alaska precluded listing them all. Therefore, this class of vessel has not been addressed in these documents. For the purposes of this section, vessels have been divided into two categories: deep draft and light draft.

Deep Draft Vessels are vessels that exceed 20,000 Gross Tons. These vessels have drafts of 25 to 60 feet and range in size from 450 to 1,000 feet long. Cruise ships, container ships, and tank vessels are the predominant deep draft vessels operating in the Southeast Subarea.

Light Draft Vessels are vessels of 300 to 20,000 Gross Tons. These vessels have drafts of up to 25 feet and range in size from 200 to 450 feet in length. Small freighters, catcher-processors, and ferries are the most common light draft vessels operating in Southeast Alaska.

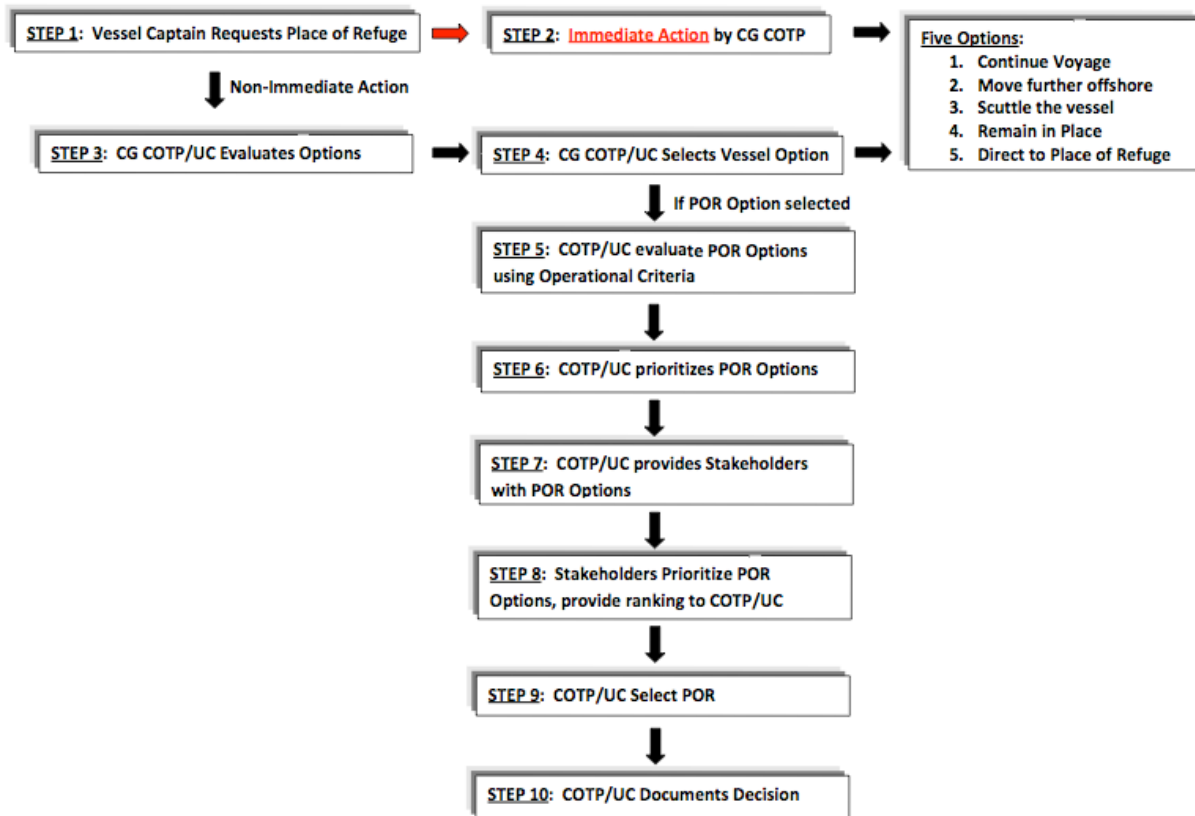
The information in this section may be used for a vessel of any size that has suffered an incident that creates need for a temporary place of safe refuge, but it is focused on deep draft and light draft size vessels, since there are more potential places of refuge for shallow draft vessels. Some potential places of refuge appropriate only for shallow draft vessels are designated, however many more potential places of refuge for shallow draft vessels exist in Southeast Alaska.

B. HOW TO USE THE POTENTIAL PLACES OF REFUGE SECTION

The extensive regional and location-specific information provided in the Potential Place of Refuge documents is intended to help assist the COTP and/or Unified Command in the often challenging decision-making process.

The "Guidelines for Places of Refuge Decision-Making" (**Annex O of the Unified Plan**) will be used for places of refuge decision-making in the Southeast Subarea. As outlined in the guidelines, when the U.S. Captain of the Port (COTP) receives a request from a vessel master or his/her representative to move a vessel to a place of refuge – or in the event there are no individuals on board the vessel authorized to make the request, or the vessel has been abandoned and the COTP needs to consider moving the vessel to a place of refuge – the COTP will initiate the decision-making process in Appendix 1 of Annex O. As outlined in Steps 2 and 3 in Appendix 1, if the COTP/Unified Command (UC) determines that places of refuge should be considered for an incident-specific response, the information in the Southeast PPOR document may be used to provide background information to help expedite the incident-specific place of refuge decision. The steps of the decision-making process are summarized as follows:

Decision-Making Process – Places of Refuge



Part Three of this section contains the site-specific information for the PPOR in the Southeast Subarea. An index map (Figure H-11) at the beginning of Part Three shows the map locations of the PPOR. Each PPOR map consists of two parts: 1) a map page showing a locator map, picture, and detailed nautical charts; and 2) a table page providing site information and local site conditions. All geographic data was collected using Mercator Projection, North American Datum 1983.

C. REFERENCES

Alaska Regional Response Team. October 2004. Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases, Annex O, Guidelines for Places of Refuge Decision-Making.

Dept of Commerce - National Oceanic & Atmospheric Administration (NOAA), National Ocean Survey can provide detailed hydrographic charts of PPOR locations upon request. Contact Dave Neander, Dave.Neander@noaa.gov, (206) 526-6949, NOAA/ORR, 7600 Sand Point Way, NE, Seattle, WA 98115.

International Maritime Organization (IMO). July 17, 2003. Draft Assembly Resolutions Finalized by Nav. 49, Annex 1 Guidelines On Places Of Refuge For Ships In Need of Assistance.

Pacific States/British Columbia Task Force. December 2004. Guidelines for Places of Refuge

U.S. Coast Guard, Marine Safety Office Southeast, 2007. Southeast Alaska Marine Firefighting Contingency Plan.

Useful Websites:

Alaska Dept. of Environmental Conservation, Southeast PPOR homepage

<http://dec.alaska.gov/spar/perp/ppor/home.htm>

Alaska Dept. of Environmental Conservation, Southeast GRS homepage

<http://dec.alaska.gov/spar/perp/grs/home.htm>

Southeast Subarea maps, including general maps, land use and management maps, biologically sensitive area maps, most environmentally sensitive area maps, and environmentally sensitive index maps

<http://www.asgdc.state.ak.us/maps/cplans/subareas.html#southeast>

Unified Plan and all Subarea Contingency Plans

<http://dec.alaska.gov/spar/perp/plan.htm>

Alaska Dept. of Natural Resources, Southeast Public Access Atlas

<http://dnr.alaska.gov/mlw/planning/easmtatlas/>

U.S Bureau of Land Management. Alaska Land Information System.

<http://www.ak.blm.gov/alis/>

National Marine Fisheries Service, ShoreZone imagery and mapping data

<http://alaskafisheries.noaa.gov/shorezone/>

D. WHO TO CONTACT FOR INPUT

Comments and recommendations on these PPOR are welcomed, and please send them to either of the following agencies:

Alaska Department of Environmental Conservation
Prevention and Emergency Response Program
555 Cordova Street
Anchorage, AK 99501

United States Coast Guard
Captain of the Port, Southeast Alaska
2760 Sherwood Lane Suite 2A
Juneau, AK 99801-8545

POTENTIAL PLACES OF REFUGE: PART TWO – DEVELOPMENT

A workgroup of interested and knowledgeable stakeholders developed the PPOR section over the course of 2009-2010, guided by the Alaska Regional Response Team's "*Guidelines for Places of Refuge Decision-Making*," (available along with additional information in the **Unified Plan, Annex O**). The workgroup arrived at a consensus on the potential places of refuge and submitted this document to the Subarea Committee for approval and inclusion in the Southeast Subarea Contingency Plan. The workgroup participants represented the following organizations:

Alaska Department of Environmental Conservation
Alaska Department of Fish and Game
Alaska Department of Natural Resources
Central Council Tlingit & Haida Indian Tribes of Alaska
City & Borough of Juneau
City & Borough of Sitka
City of Skagway
Cruise Line Agencies of Alaska
Ketchikan Gateway Borough
National Oceanic and Atmospheric Administration
Royal Caribbean Cruise Line
Southeast Alaska Conference
Southeast Alaska Pilots Association
Southeast Alaska Petroleum Resource Organization
Southeast Stevedoring
U.S. Coast Guard (Sector Juneau and District 17)
U.S. Environmental Protection Agency
U. S. Department of the Interior – Office of Environmental Policy and Compliance
US Fish and Wildlife Service
US National Park Service

A. **RISK IDENTIFICATION**

The first step in the PPOR process began with identifying vessel traffic patterns and determining where possible vessel distress incidents might arise. The workgroup and the ADEC contractor researched available information to determine vessel routes and destinations, along with major risk factors in the Southeast Subarea. Maps were developed, depicting the following risk and logistical information:

- *Locations of bulk fuel facilities* (Figure H-1);
- *Location of noncrude carrier routes* (Figure H-2);
- *Locations of cruise ship and ferry traffic* (Figure H-3);
- *Locations of hatcheries* (Figure H-4);
- *Locations of aquatic farms and mariculture sites* (Figure H-5);
- *Locations of spill response equipment depots, nearshore equipment packages, and communities with spill response agreements* (Figure H-6);
- *Locations of geographic response strategies* (Figure H-7);
- *Locations of major airports* (Figure H-8);
- *Locations of major oil spill events* (Figure H-9).

The compilation of all of the above logistical maps can be seen in Figure H-10: *Location of all Risk Factors Combined*.

B. FEASIBILITY

The second step, identifying all of the feasible places of refuge within the Southeast Subarea, began with an appraisal of all possible candidate locations: natural embayments, anchorages, moorings, docks, and piers, as well as potential grounding sites. From this effort, the workgroup determined that 88 locations could serve as potential places of refuge, dependent upon a variety of factors, including vessel type and wind direction.

The ADEC contractor created a site assessment matrix (Table H-2) and key (Table H-1). The matrix consists of identified sites in each row, with information about risk factors and site selection criteria in the columns. The information presented for each site includes the following:

- PPOR identification
- Name
- Location
- Maximum vessel size
- Anchorage swing room & depth or dock face length & depth
- Bottom type of refuge site
- Exposure/protection at refuge site
- Conflicting uses
- Sensitive resources in area
- Response options
- Distance to population centers
- Distance to alternate PPOR

The PPOR identification method begins with either a “D” or “L” which indicates the appropriate size vessel for the site: “D” corresponds to deep draft vessels; “L” equates to light draft vessels. Following the letter is a number which indicates the response zone in which the site is located. This is then followed by a number which is a unique site identifier with no importance attached to the magnitude of the number.

The site assessment matrix contains potentially suitable emergency anchorage, docking, and moorage based on operational factors such as water depth, swing room, exposure/protection, and navigational approach. Sites are grouped by the individual response zones and then by the maximum vessel size category suitable for the site.

C. SPECIFIC DECISION-MAKING FACTORS

The third step consisted of identifying specific factors that should be considered as part of the site assessment process. These factors, identified in the matrix, include the following:

- ❖ Distance from population and logistics centers;
- ❖ Proximity to environmentally sensitive areas, wildlife resources, threatened or endangered species or habitats, and/or historic properties;
- ❖ Location-specific uses, such as fisheries, mariculture sites, tourism and recreational use, subsistence use, and the location of public or private facilities;
- ❖ Response factors, such as booming feasibility and the proximity to existing Geographic Response Strategy sites; and
- ❖ Distance to the closest alternative PPOR.

D. MATRIX and RISK ASSESSMENT MAPS

The site assessment matrix, the matrix key, and the risk assessment maps appear below and can also be accessed online:

Table H-1: Site Assessment Matrix Key

http://www.dec.state.ak.us/spar/perp/seakpor/101221_SEPPOR_SAM_KEY.pdf

Table H-2: Site Assessment Matrix,

http://www.dec.state.ak.us/spar/perp/seakpor/101221_SEPPOR_SAM.pdf

Figures H-1 to H10:

<http://www.dec.state.ak.us/spar/perp/seakpor/101228SEAKpporriskmapsHR.pdf>

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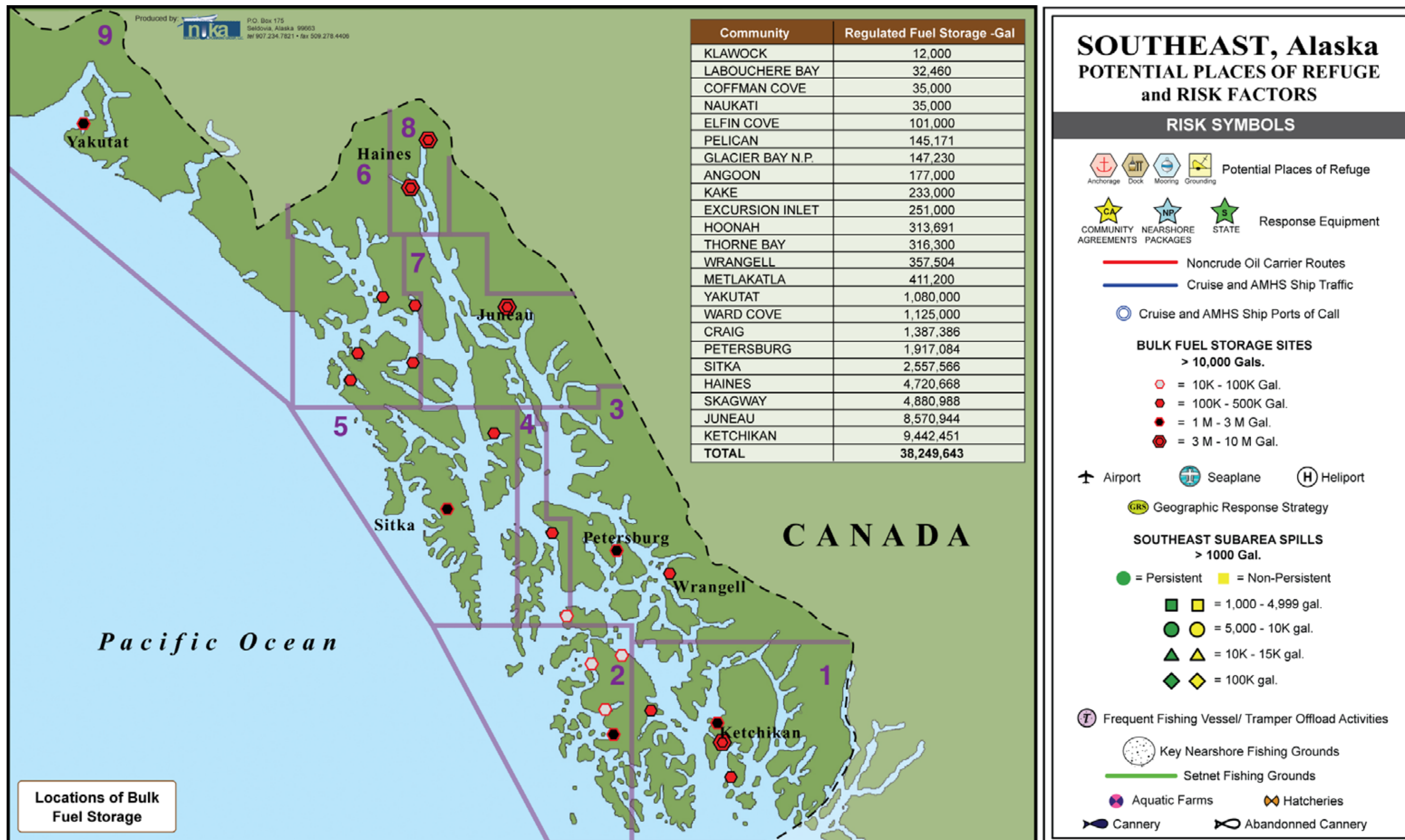


Figure H-1. Locations of Bulk Fuel Storage.

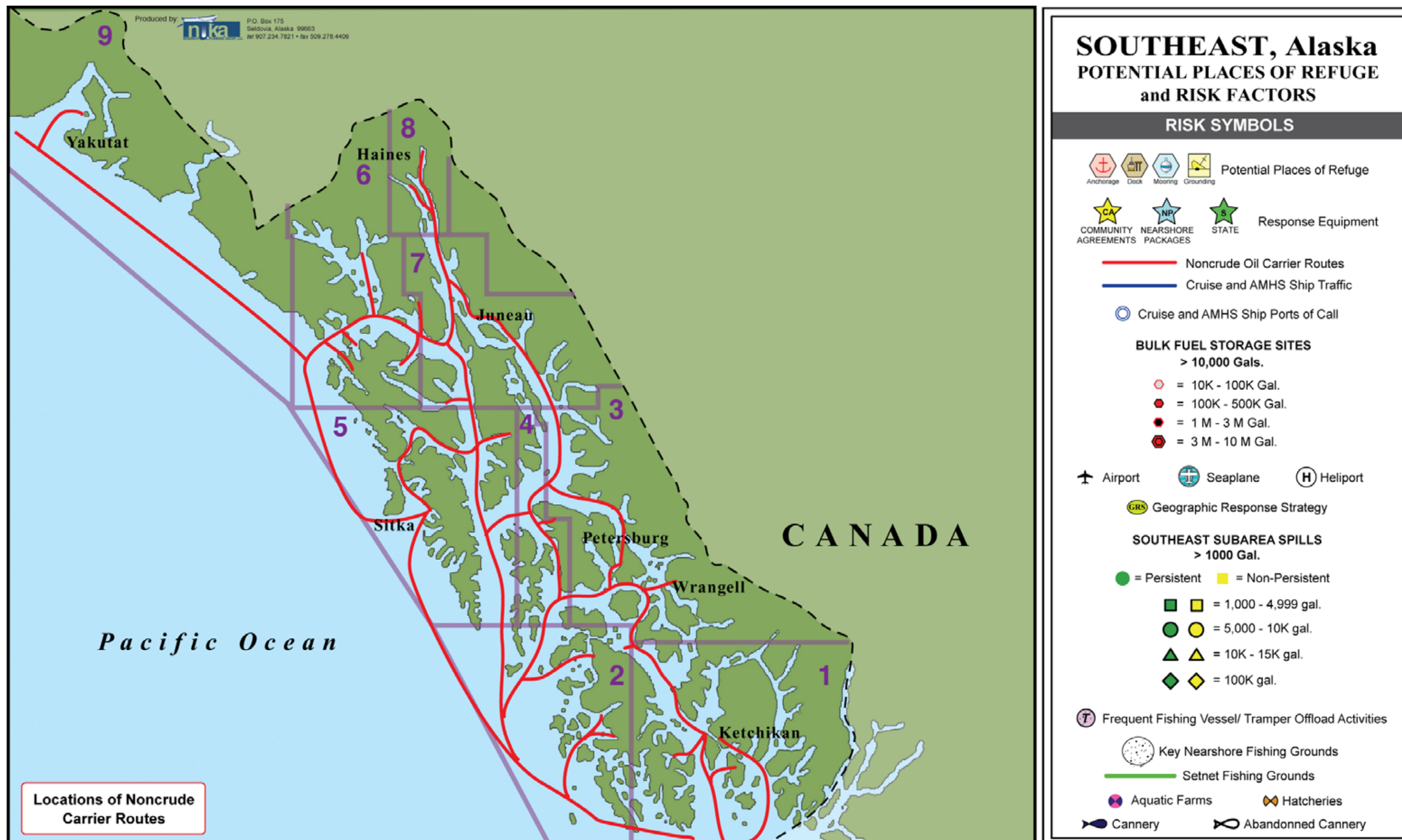


Figure H-2. Locations of Noncrude Carrier Routes.

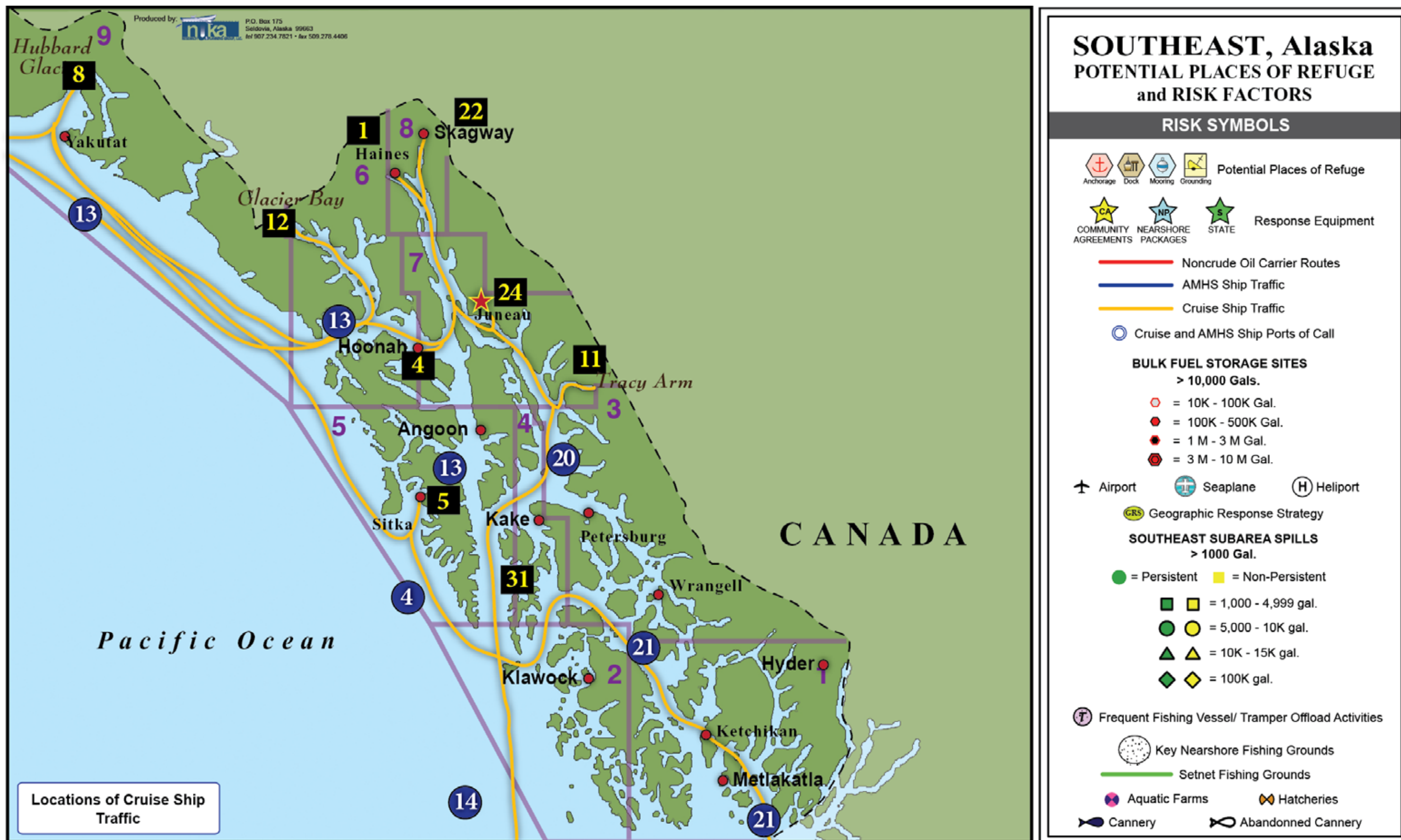


Figure H-3a. Locations of Cruise Ship Traffic.

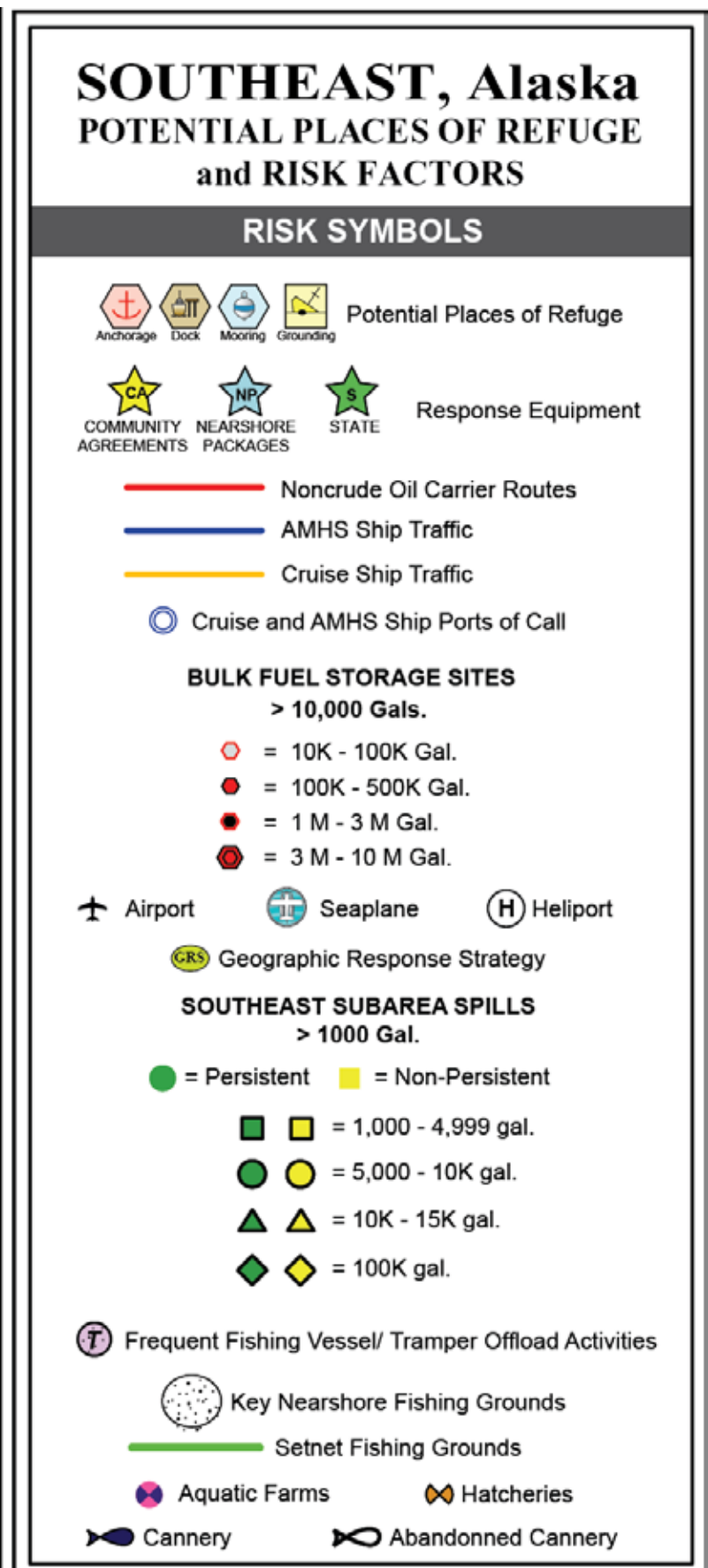


Figure H-3b. Locations of Ferry Traffic.

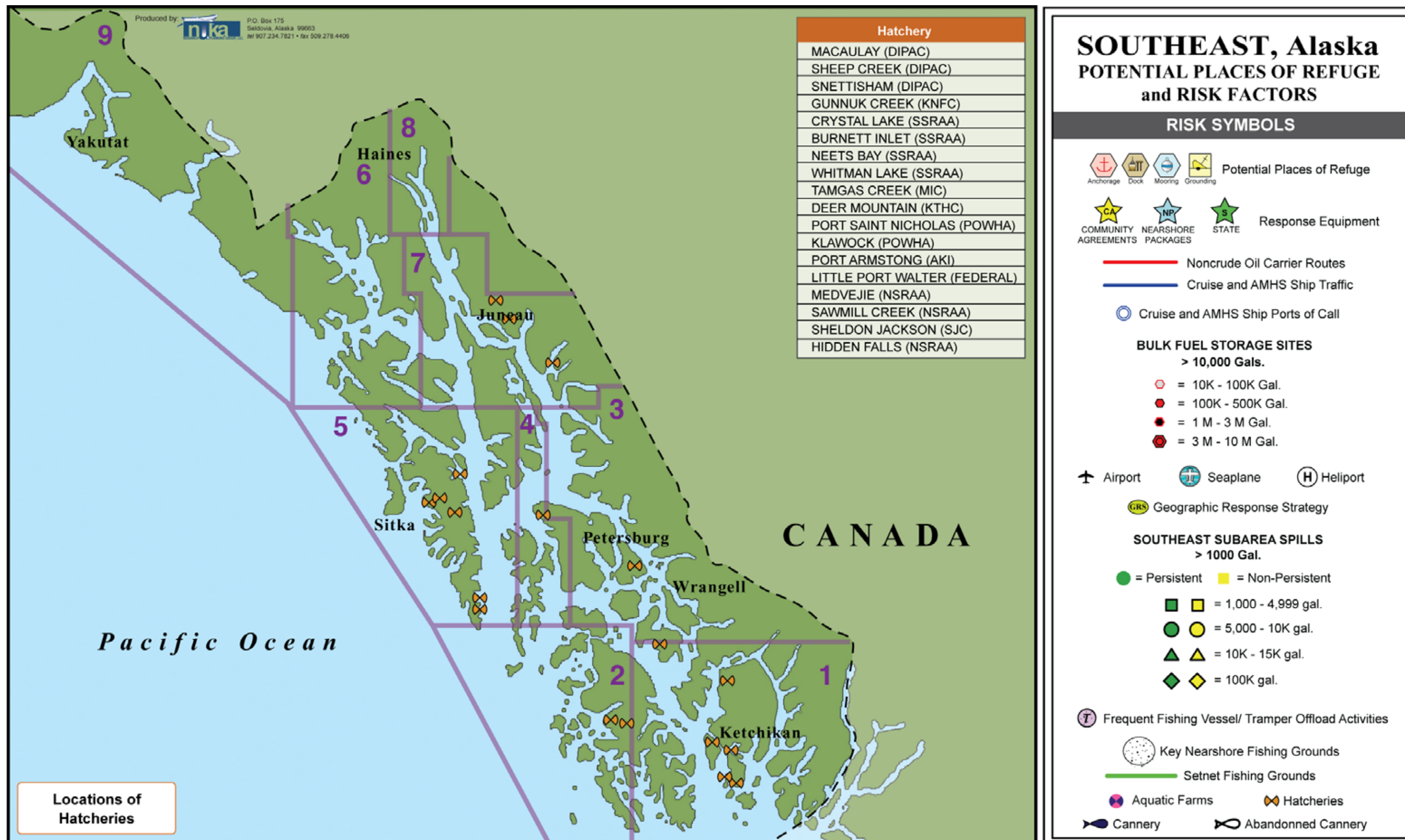


Figure H-4. Locations of Hatcheries.
Southeast Alaska SCP: PPOR, Part One

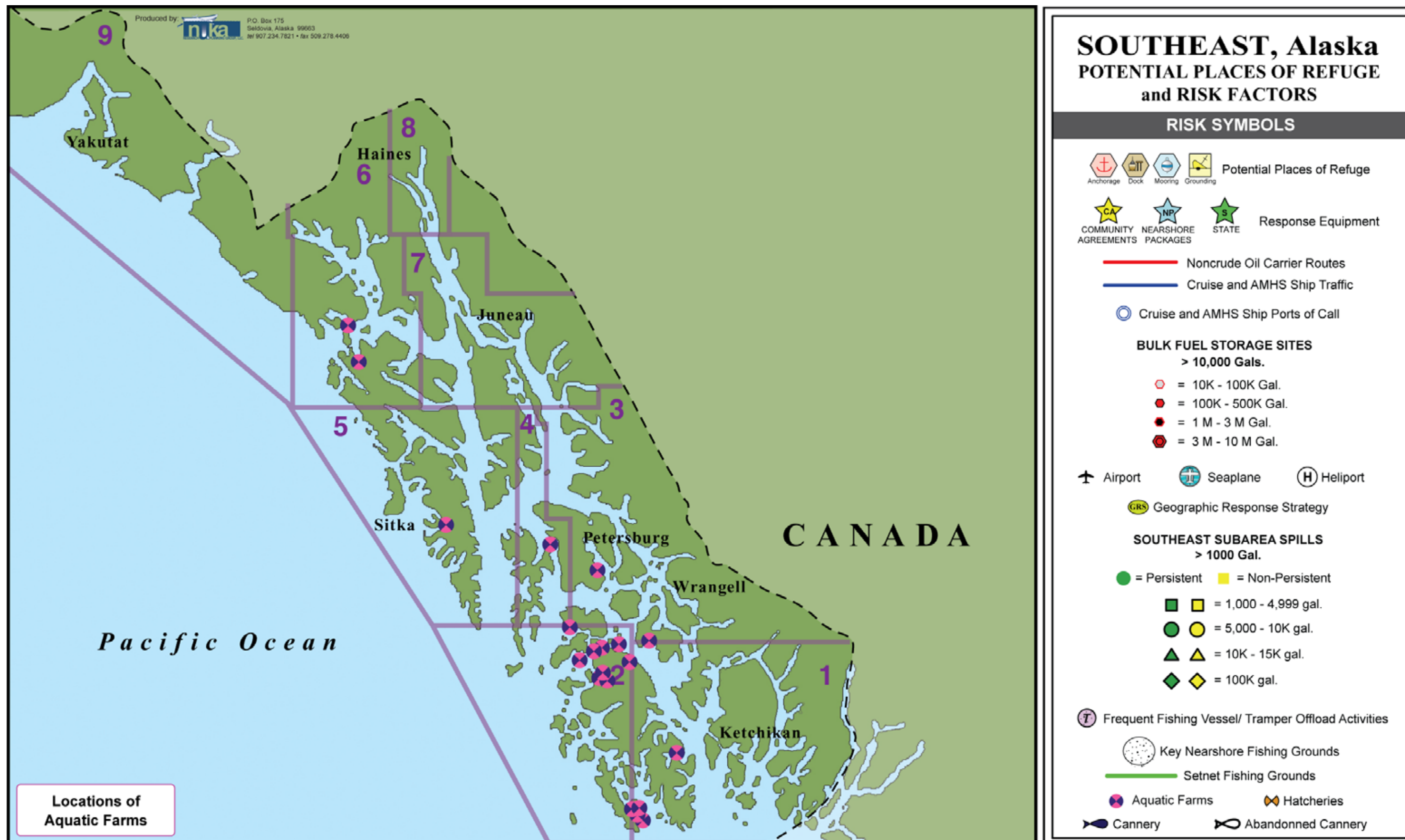


Figure H-5. Locations of Aquatic Farms.

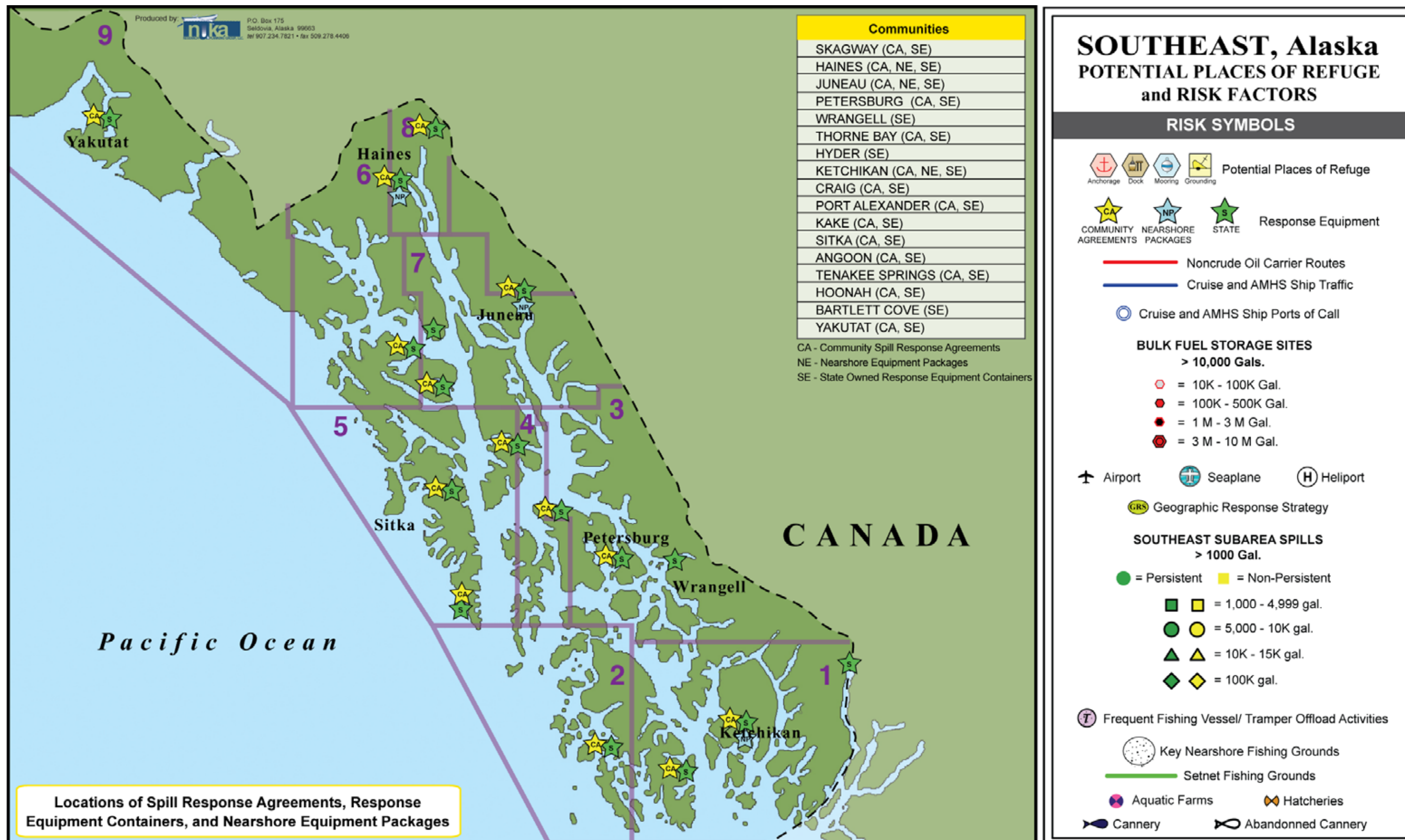


Figure H-6. Locations of Spill Response Agreements, Response Equipment Containers, and Nearshore Equipment Packages.

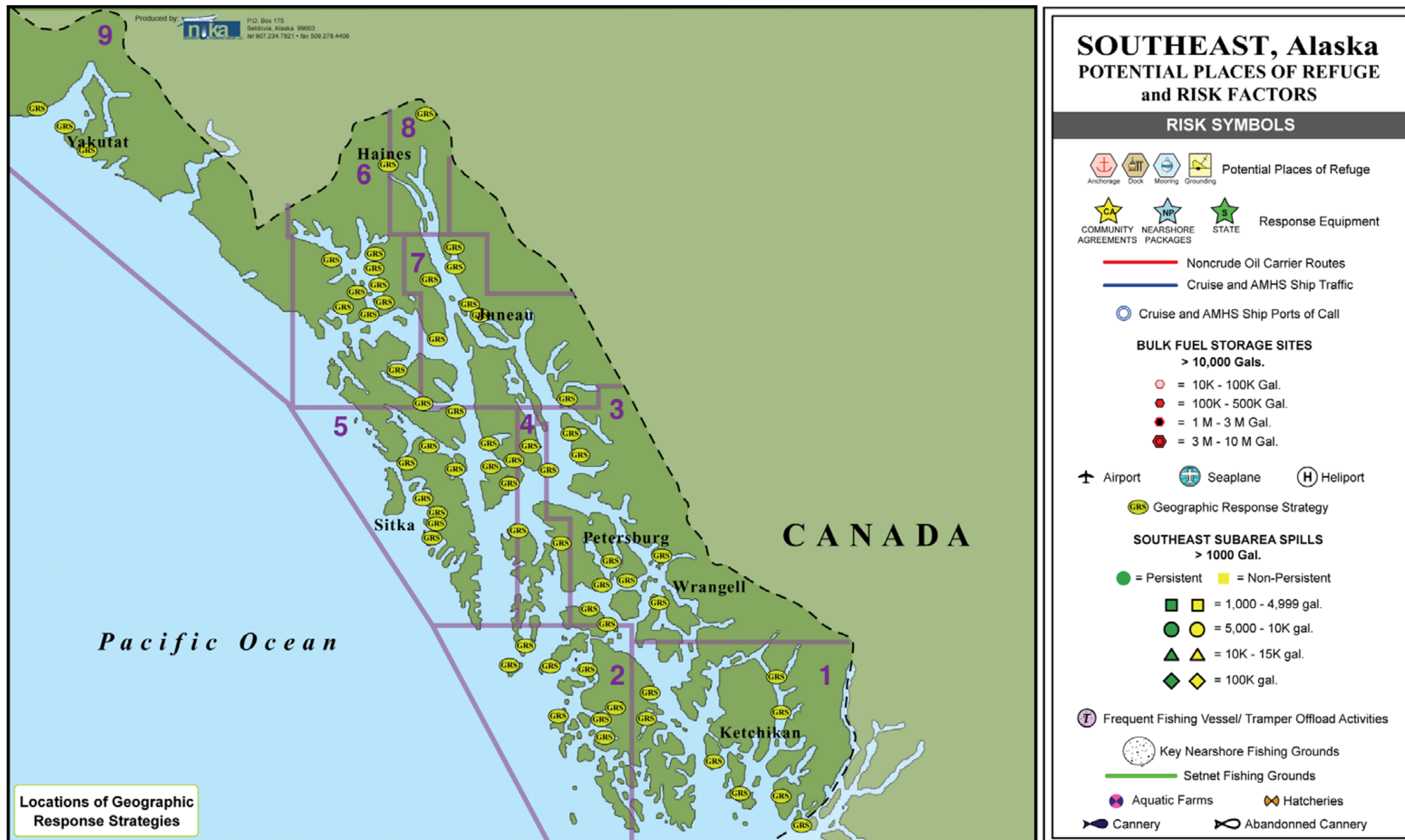


Figure H-7. Locations of Geographic Response Strategies.

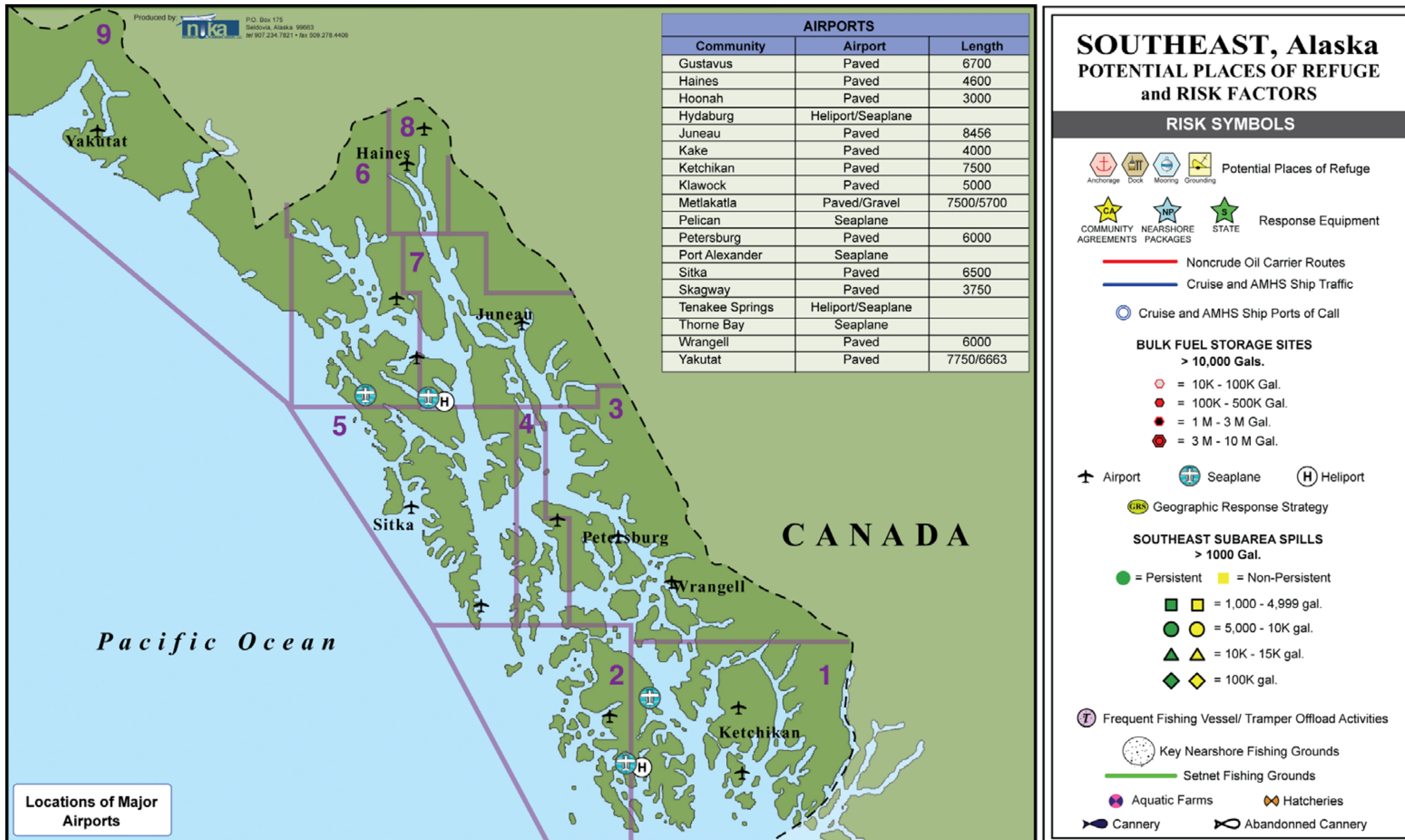


Figure H-8. Locations of Major Airports.

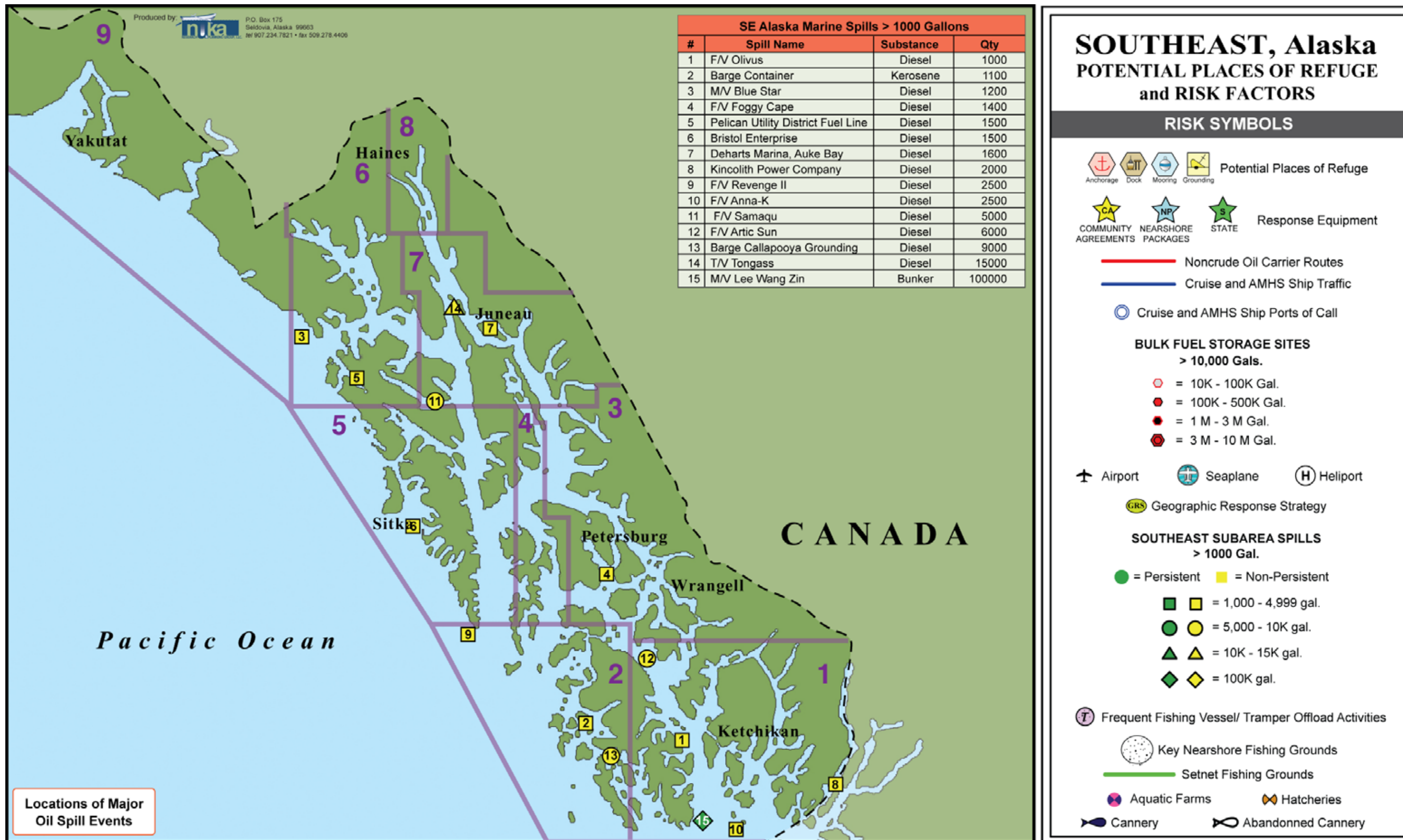


Figure H-9. Locations of Major Oil Spill Events.

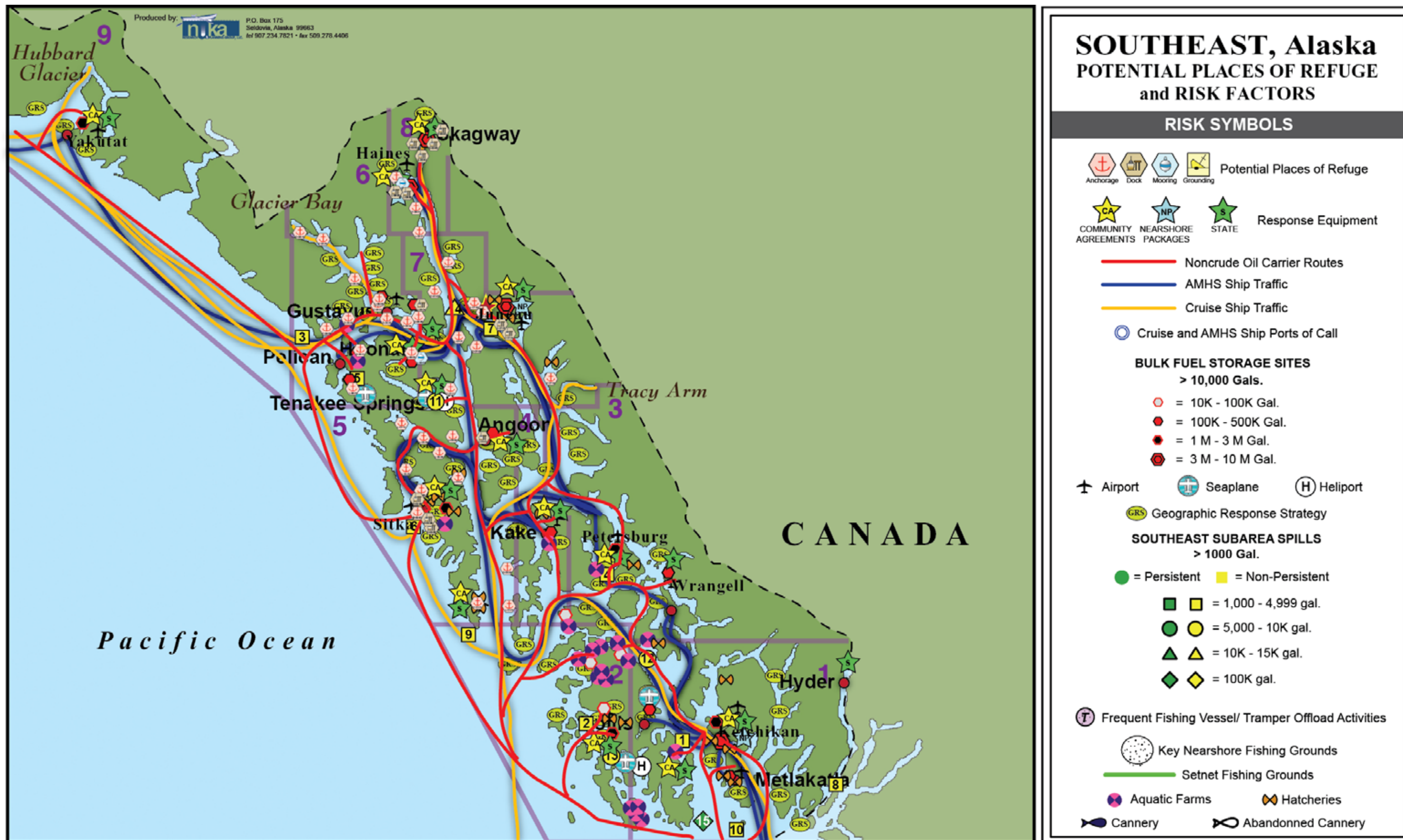


Figure H-10. Location of all Risk Factors Combined.

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POTENTIAL PLACES OF REFUGE: PART THREE – PPOR MAPS

Index of PPOR Maps

The PPOR Workgroup developed nine PPOR Maps within the Southeast Subarea to correspond with the response zones established by oil spill responders in the area. The maps aid in the site assessment process. These maps, larger in scale than the risk assessment maps in Part Two, show a small portion of the subarea in more detail. Figure H-11 provides an overview of the subarea, identifying the location of each PPOR map. Each one has been assigned an identifying number, which has no relevance other than as a map identifier.

Figure H-11: Zone Map for Southeast Alaska Potential Places of Refuge.



PPOR Maps

Each PPOR map consists of two parts: 1) a graphic showing a locator map, pictures, and detailed nautical charts showing the location of anchorages, docks, and moorings and other information critical to the selection of a place of refuge; and 2) a series of tables providing site information regarding local site conditions, environmental sensitivities and other considerations.

The maps are presented below and are also available online:

Southeast PPOR Map Zone 1

<http://www.dec.state.ak.us/spar/perp/seakpor/101221seppormap01LR.pdf>

Southeast PPOR Map Zone 2

<http://www.dec.state.ak.us/spar/perp/seakpor/101221seppormap02LR.pdf>

Southeast PPOR Map Zone 3

<http://www.dec.state.ak.us/spar/perp/seakpor/101221seppormap03LR.pdf>

Southeast PPOR Map Zone 4

<http://www.dec.state.ak.us/spar/perp/seakpor/101221seppormap04LR.pdf>

Southeast PPOR Map Zone 5

<http://www.dec.state.ak.us/spar/perp/seakpor/101221seppormap05LR.pdf>

Southeast PPOR Map Zone 6

<http://www.dec.state.ak.us/spar/perp/seakpor/101222seppormap06LR.pdf>

Southeast PPOR Map Zone 7

<http://www.dec.state.ak.us/spar/perp/seakpor/101222seppormap07LR.pdf>

Southeast PPOR Map Zone 8

<http://www.dec.state.ak.us/spar/perp/seakpor/101222seppormap08LR.pdf>

Southeast PPOR Map Zone 9

<http://www.dec.state.ak.us/spar/perp/seakpor/101222seppormap09LR.pdf>



Port Chester and Metlakatla City Dock viewed from the southwest.



Alaska Ship & Drydock facilities viewed from the north.



Ward Cove viewed from the northeast.

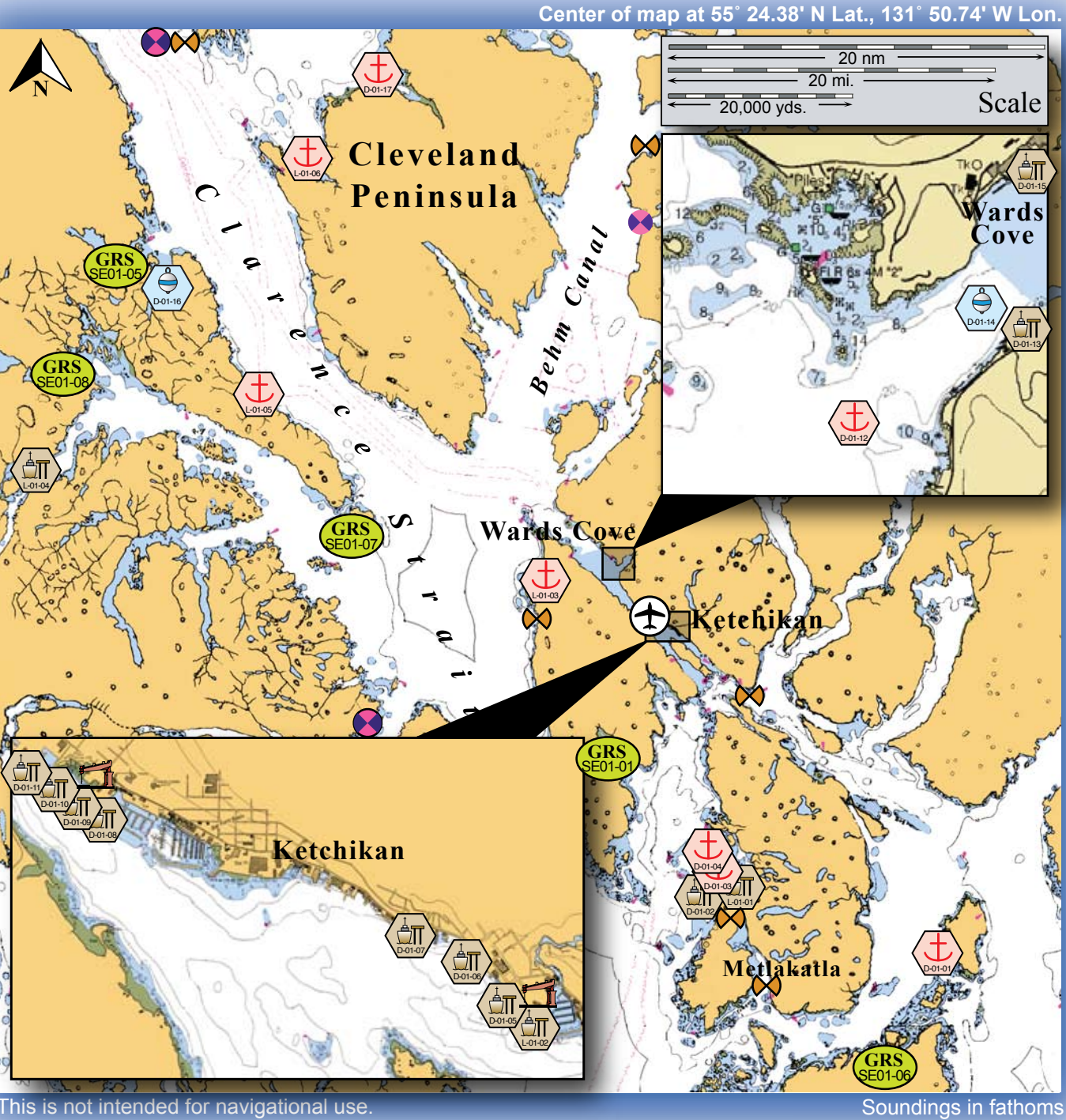


The Port of Ketchikan viewed from the southeast.



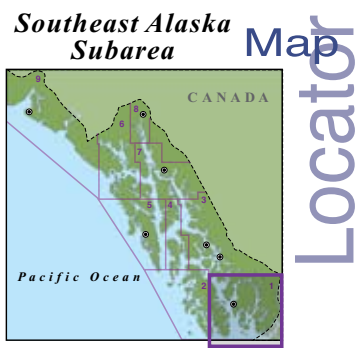
Tolstoi Bay Moorage viewed from the northeast.

Potential Places of Refuge for Southeast Alaska Subarea



This is not intended for navigational use.

Soundings in fathoms



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Aquatic Farms
	Crane		Private Cabins
	Airport		Public Use Cabins
			Boat Harbor

**Southeast
PPOR
Map 01**

USGS 1:229,376K Quadrangle Map
Reference - Hecate Strait to Etolin
Island 17420

Site Considerations for PPOR Zone 01 of the Southeast Alaska Subarea															
	Mary Island	Metlakatla City Dock	Port Chester	Nichols Passage	Ketchikan Berth 1&2	Ketchikan Berth 3	Ketchikan Berth 4	AK Marine Lines	Ferry Terminal-1	Ferry Terminal-2	Alaska Ship & Drydock	Ward Cove	Boyer Towing Dock	Ward Cove Mooring	Former Pulp Mill Dock
ID Number	D-01-01	D-01-02	D-01-03	D-01-04	D-01-05	D-01-06	D-01-07	D-01-08	D-01-09	D-01-10	D-01-11	D-01-12	D-01-13	D-01-14	D-01-15
Human Health & Safety															
Community-distance to (nm)	23 to Ketchikan	0 to Metlakatla	.5 to Metlakatla	2.5 to Metlakatla	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan	0 to Ketchikan
Health Care Facilities	Full Hospital Services in Ketchikan	Clinic Services in Metlakatla			Full Hospital Services in Ketchikan										
Natural Resources Considerations															
Fish & Wildlife	Spawning salmon & herring, seals, waterfowl	Spawning salmon, seals, waterfowl			Spawning salmon & herring, seals, waterfowl										
Threatened & Endangered Species	None (2010)														
Sensitive Areas	Adjacent area designated sensitive by SE GRS Workgroup	Not Designated		Adjacent area designated sensitive by SE GRS Workgroup	Not Designated										
Other Stakeholder Considerations															
Fisheries	Salmon, Herring, Groundfish, Crab	Salmon, Groundfish, Crab			Salmon, Herring, Groundfish, Crab										
Historic Properties	Historic Properties are present throughout the area.														
Mariculture*	None	None			Hatchery operations in the Ketchikan area										
Subsistence	Low level subsistence use	High local subsistence use			Low level subsistence use										
Tourism/Recreation	High level recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting														
Waterfront Public Facilities/Parks	Tongass National Forest-No waterfront facilities	Small boat harbor and supporting services are present in Metlakatla. Tongass National Forest			Municipality owned small boat harbor and supporting services are present in Ketchikan Tongass National Forest.										
Waterfront Private Facilities	None present	Marine services docks and piers in Metlakatla			Numerous marine services docks and piers.										
Response and Salvage Resource Consideration															
Ability to Boom Vessel	No	Weather Dependent			Yes							Weather Dependent	Yes	Weather Dependent	Yes
Geographic Response Strategies	SE01-06	None (2009)		SE01-01	None (2009)										
Closest Alternative PPOR for a same sized vessel	23 to D-01-05	.5 to D-01-03	.5 to D-01-02	2.5 to D-01-02	.2 to D-01-06	.2 to D-01-07	.2 to D-01-06	.2 to D-01-09	.1 to D-01-10	.2 to D-01-10	.2 to D-01-09	.6 to D-01-14	.1 to D-01-14	.1 to D-01-13	.5 to D-01-14

Table continued below.

Site Considerations for PPOR Zone 01 of the Southeast Alaska Subarea								
	Tolstoi Bay Moorage	Vixen Inlet	Metlakatla Ferry Dock	Ketchikan Berth 1-C & 1-D	Vallenar Bay	Hollis Ferry Dock	Lyman Anchorage	Union Bay
ID Number	D-01-16	D-01-17	L-01-01	L-01-02	L-01-03	L-01-04	L-01-05	L-01-06
Human Health & Safety								
Community-distance to (nm)	6 to Thorne Bay	17 to Thorne Bay	0 to Metlakatla	0 to Ketchikan	9 to Ketchikan	1 to Hollis	15 to Thorne Bay	14 to Thorne Bay
Health Care Facilities	Clinic Services in Thorne Bay		Clinic Services in Metlakatla	Full Hospital Services in Ketchikan		EMS in Hollis	Clinic Services in Thorne Bay	
Natural Resources Considerations								
Fish & Wildlife	Spawning salmon, seals, waterfowl			Spawning salmon & herring, seals, waterfowl		Spawning salmon, seals, waterfowl	Spawning salmon & herring, seals, waterfowl	
Threatened & Endangered Species	None (2010)							
Sensitive Areas	Adjacent area designated sensitive by SE GRS Workgroup	Not Designated				Adjacent area designated sensitive by SE GRS Workgroup	Not Designated	
Other Stakeholder Considerations								
Fisheries	Salmon, Groundfish, Crab			Salmon, Herring, Groundfish, Crab		Salmon, Groundfish, Crab	Salmon, Herring, Groundfish, Crab	
Historic Properties	Historic Properties are present throughout the area.							
Mariculture *K	None			Hatchery operations		None		
Subsistence	High local subsistence activities	Low level subsistence use	High local subsistence activities	Low level subsistence use		High local subsistence activities	Low level subsistence use	
Tourism/Recreation	High level recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting							
Waterfront Public Facilities/Parks	Small Boat Harbor in Thorne Bay	Tongass National Forest-No waterfront facilities	Harbor and supporting services are present in Metlakatla. Tongass National Forest	Municipality owned small boat harbor and supporting services are present in Ketchikan.	Tongass National Forest- No waterfront facilities	Hollis Ferry dock and small dock present	Tongass National Forest-No waterfront facilities	
Waterfront Private Facilities	Private facilities in Thorne Bay	None	Marine services docks and piers in Metlakatla	Numerous marine services docks and piers.	None	Private docks in the area	None	
Response and Salvage Resource Consideration								
Ability to Boom Vessel	No	Weather Dependent	Yes		Weather Dependent	Yes	Weather Dependent	
Geographic Response Strategies	SE01-05	None (2009)				SE01-08	None (2009)	
Closest Alternative PPOR for a same sized vessel	16 to D-01-17	16 to D-01-16	.2 to D-01-02	.2 to D-01-05	8 to D-01-13	26 to L-01-05	17 to L-01-03	16 to L-01-05

*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: <http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php>

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

Stakeholders for PPOR Zone 01 of the Southeast Alaska Subarea	
Organization	Contact
Alaska Department of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer
Cape Fox Corporation	CEO
Central Council Tlingit-Haida Tribal	President
City of Hydaburg	Mayor
City of Ketchikan	Manager
Hydaburg Cooperative Association	President
Haida Corporation	President
Ketchikan Gateway Borough	Manager
Ketchikan Indian Corporation	President
Metlakatla Indian Community	Mayor
Native Allotments	Dept of the Interior-Regional Environmental Officer
Organized Village of Kasaan	President
Sealaska Corporation	President
Thorne Bay	Mayor
Tongass National Forest	Forest Supervisor

Tables continued on next page.

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm

Physical and Operational Characteristics for PPOR Map 01 of the Southeast Alaska Subarea											
	Mary Island	Metlakatla City Dock	Port Chester	Nichols Passage	Ketchikan Berth 1&2	Ketchikan Berth 3	Ketchikan Berth 4	AK Marine Lines	Ferry Terminal-1	Ferry Terminal-2	Alaska Ship & Drydock
ID Number	D-01-01	D-01-02	D-01-03	D-01-04	D-01-05	D-01-06	D-01-07	D-01-08	D-01-09	D-01-10	D-01-11
Location <i>(in the general area)</i>	55°03.23'N 131°16.25'W	55°07.74'N 131°34.14'W	55°07.92'N 131°33.48'W	55°09.98'N 131°36.70'W	55°20.40'N 131°38.76'W	55°20.58'N 131°39.00'W	55°20.64'N 131°39.36'W	55°21.12'N 131°41.40'W	55°21.24'N 131°41.70'W	55°21.30'N 131°41.76'W	55°21.30'N 131°41.94'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT										
Type of Berthing	Anchorage	Dock	Anchorage			Dock					
Contact	Harbormaster 907.874.3736	Harbormaster 907.866.4646		N/A		Harbormaster 907.228.5632		Manager 907.225.7660	Terminal Manager 907.225.6182		Director 907.225.7199
Navigational Approach	Approach from the SW or N	Approach from the W via marked channel		Approach from the S or N		NW or SE via marked channel-Approach has little maneuvering room.					
Minimum Water Depths <i>(MLLW)</i>	32 fathoms	35 ft.	21 fathoms	23 fathoms	30-40 ft.	40 ft.	35 ft.	35 ft.	35 ft.	40 ft.	35 ft.
Maximum Vessel Draft	40 ft. +	30 ft.	40 ft. +	40 ft. +	30 ft.	35 ft.	30 ft.	30 ft.	30 ft.	35 ft.	30 ft.
Swing Room or Dock Face <i>(w/ dolphins)</i>	6000 ft.	400 ft.	2800 ft.	3000 ft.	1605 ft.	575 ft.-face 864 ft.-total	400 ft.-face 850 ft.-total	400 ft.	550 ft.	450 ft.	560 ft.
Bottom Type	Sand, gravel	N/A	Mud, rocky	Gravel	N/A						
Nearest Alternative Dock/Piers	23 nm to D-01-05	13.5 nm to D-01-05	13 nm to D-01-05	13 nm to D-01-05	.2 nm to D-01-06	.2 nm to D-01-07	.2 nm to D-01-06	.2 nm to D-01-09	.1 nm to D-01-10	.1 nm to D-01-09	.2 nm to D-01-09
Nearest Alternative Anchorage	24 nm to D-01-02	.5 nm to D-01-03	2.5 nm to D-01-04	2.5 nm to D-01-03	5 nm to D-01-12	4.5 nm to D-01-12	4 nm to D-01-12	3 nm to D-01-12	2.8 nm to D-01-12	2.8 nm to D-01-12	2.6 nm to D-01-12
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February										
Currents	Tidal currents at the anchorage under 1.5 knots	Currents under 1 knot	Minimal current at the anchorage.	Minimal current at the anchorage.	The tidal current in Tongass Narrows is generally weak. Areas around Idaho Rock report currents approx. 2.5 knots.						
Tides	Mean High 14.5 ft. (Higher 15.4) Mean Low 1.5(Lower -4.5)	Mean High 13.8 ft. (Higher 14.7) Mean Low 1.5 (Lower -4.5)				Mean High 14.5 ft. (Higher 15.4) Mean Low 1.6 (Lower 0.0)					
Sea Conditions	Exposed to swells from the NE	Sheltered		Sheltered		Sheltered					
Shelter from Severe Storms	Sheltered from E-W storms			Sheltered from E & W storms		Sheltered					
Fog	Frequent throughout the year. Advection fog may present problems, particularly from July to September.										
Ice	Ice may form in bays from November until May if colder conditions prevail.										

Physical and Operational Characteristics for PPOR Map 01 of the Southeast Alaska Subarea												
	Ward Cove	Boyer Towing Dock	Ward Cove Mooring	Former Pulp Mill Dock	Tolstoi Bay Moorage	Vixen Inlet	Metlakatla Ferry Dock	Ketchikan Berth 1-C & 1-D	Vallenar Bay	Hollis Ferry Dock	Lyman Anchorage	Union Bay
ID Number	D-01-12	D-01-13	D-01-14	D-01-15	D-01-16	D-01-17	L-01-01	L-01-02	L-01-03	L-01-04	L-01-05	L-01-06
Location (in the general area)	55°23.52'N 131°44.76'W	55°23.82'N 131°43.68'W	55°23.88'N 131°43.92'W	55°24.36'N 131°43.56'W	55°38.84'N 132°26.06'W	55°49.94'N 132°06.81'W	55°07.14'N 131°32.82'W	55°20.33'N 131°38.64'W	55°23.50'N 131°51.39'W	55°29.47'N 132°37.51'W	55°32.70'N 132°17.31'W	55°45.01'N 132°12.17'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT						Light Draft Vessel - up to 450 feet in length, draft up to 20 feet					
Type of Berthing	Anchorage	Dock	Mooring	Dock	Mooring	Anchorage	Dock		Anchorage	Dock	Anchorage	
Contact	N/A	Terminal Manager 907.225.2090		907.228.6618	Sealaska Corp. 907.225.9444	N/A	Terminal Manager 907.225.6182	Harbormaster 907.228.5632	N/A	Terminal Manager 907.225.6182	N/A	
Navigational Approach	Approach from the E				Approach from the N	Approach from the E-NW	Approach from the W via marked channel	NW or SE via marked channel-Approach has little maneuvering room.	Approach from the N	NW from Kasaan Bay	Approach from the N-SW	Approach from the N
Minimum Water Depths (MLLW)	30 fathoms	40 ft.	26 fathoms	30 ft.	73 fathoms	28 fathoms	24 ft.	20 ft.	32 fathoms	25 ft.	9 fathoms	34 fathoms
Maximum Vessel Draft	40 ft+.	35 ft.	40 ft.+	25 ft.	40 ft.+		20 ft.	15 ft.	20 ft. +	20 ft.		20 ft. +
Swing Room or Dock Face (w/ dolphins)	1500 ft.	750 ft.	600 ft.	800 ft.	1800 ft.	3000 ft.	280 ft.	860 ft.	3000 ft.	200 ft.	1500 ft.	2400 ft.
Bottom Type	Mud	N/A				Rocky	N/A		Sand	N/A	Rocky	Sand, gravel
Nearest Alternative Dock/Piers	1.5 nm to D-01-13	0.7 to D-01-15	0.6 nm to D-01-13	0.5 nm to D-01-13	31 nm to D-01-13	37 nm to D-01-13	1 nm to D-01-02	.2 nm to D-01-05	8 nm to D-01-13	33 nm to D-01-13	20 nm to D-01-13	35 nm to D-01-13
Nearest Alternative Anchorage	0.6 nm to D-01-14	0.7 nm to D-01-13	0.6 nm to D-01-12	0.5 nm to D-01-14	16 nm to D-01-17	16 nm to D-01-16	1 nm to D-01-03	4 nm to D-01-12	13 nm to D-01-12	26 nm to L-01-05	17 nm to L-01-03	16 nm to L-01-05
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February											
Currents	The tidal current in Tongass Narrows is generally weak. Areas around Idaho Rock report currents approx. 2.5 knots.				Minimal current at moorage.	Minimal current at anchorage.	Currents under 1 knot.	The tidal current in Tongass Narrows is generally weak.	Minimal current at anchorage.	Currents under 1 knot.	Minimal current at anchorage.	
Tides	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.6 (Lower -5.5)				Mean High 14.8 ft. (Higher 15.7) Mean Low 1.5 (Lower -4.5)	Mean High 15.7 ft. (Higher 16.5) Mean Low 1.5 (Lower -4.5)	Mean High 13.8 ft. (Higher 14.7) Mean Low 1.5 (Lower -4.5)	Mean High 14.5 ft. (Higher 15.4) Mean Low 1.6 (Lower 0.0)	Mean High 14.4 ft. (Higher 15.3) Mean Low 1.4 (Lower -4.5)	Mean High 14.7 ft. (Higher 15.6) Mean Low 1.6 (Lower -4.5)		Mean High 15.7 ft. (Higher 16.5) Mean Low 1.5 (Lower -4.5)
Sea Conditions	Sheltered					Sheltered from NW-SE	Sheltered		Sheltered from NW-SE	Sheltered	Sheltered from the W-E	Sheltered from W-E
Shelter from Severe Storms	Sheltered					Exposed to swell from the W-N			Exposed to the NW-N		Exposed to the N	Exposed to swell from the N
Fog	Frequent throughout the year. Advection fog may present problems, particularly from July to September.											
Ice	Ice may form in bays from November until May if colder conditions prevail.											

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm

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Crab Bay, Klawock & Craig viewed from the north.



Admiralty Mine dock viewed from the north.



Craig viewed from the north.

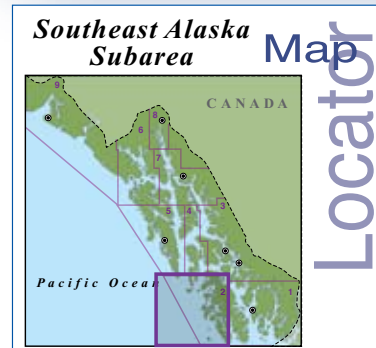
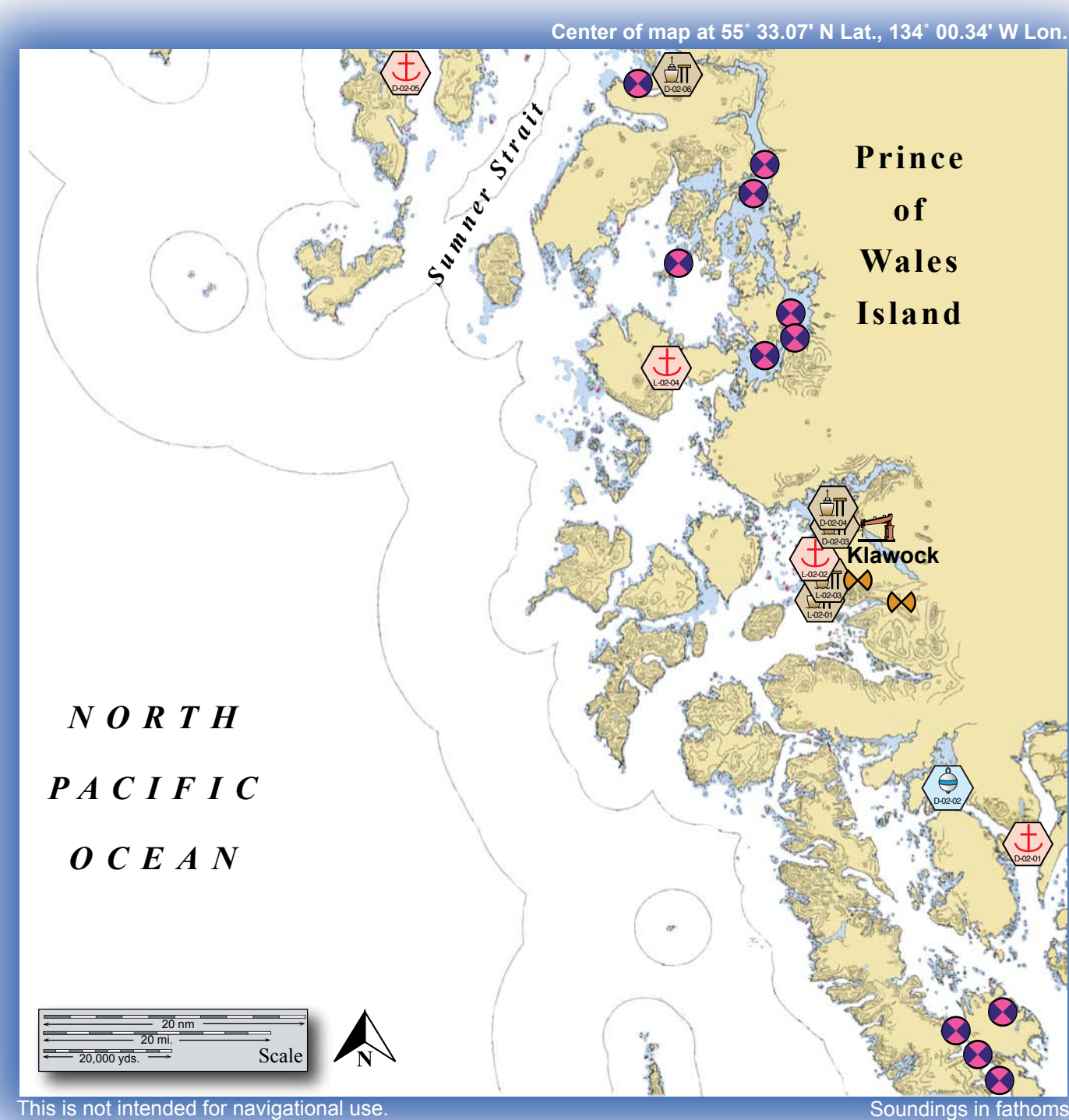


Saltery Point Moorage viewed from the north.



Klawock D-02-03, Mill Dock, & D-02-04, AML Dock viewed from the southwest.

Potential Places of Refuge for Southeast Alaska Subarea



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Aquatic Farms
	Crane		Private Cabins
	Airport		Public Use Cabins
			Boat Harbor

Southeast PPOR Map 02

USGS 1:229,376K Quadrangle
Map Reference - Dixon Entrance to Chatham Strait 17400_1

Site Considerations for PPOR Zone 02 of the Southeast Alaska Subarea										
	Alder Cove Anchorage	Saltery Point Moorage	Klawock Mill Dock	Klawock AML Dock	Kell Bay	Admiralty Mine Dock	Craig City Dock	Crab Bay Anchorage	Petro-Marine Dock	Warm Chuck Inlet
ID Number	D-02-01	D-02-02	D-02-03	D-02-04	D-02-05	D-02-06	L-2-01	L-2-02	L-2-03	L-2-04
Human Health & Safety										
Community-distance to (nm)	7 to Hydaburg	1.5 to Hydaburg	0 to Klawock	0 to Klawock	55 to Craig	63 to Craig	0 to Craig	0.3 to Craig	0 to Craig	22 to Craig
Health Care Facilities	Clinic Services in Hydaburg		Clinic Services in Klawock		Clinic services in Craig					
Natural Resources Considerations										
Fish & Wildlife	Spawning salmon & herring, seals, waterfowl	Spawning salmon, seals, waterfowl	Spawning salmon & herring, seals, waterfowl		Spawning salmon, seals, waterfowl		Spawning salmon & herring, seals, waterfowl			Spawning salmon, seals, waterfowl
Threatened & Endangered Species	None (2010)									
Sensitive Areas	Not Designated	Saltery Point-Crab Trap Cove Area Meriting Special Attention	Not Designated				Adjacent area designated important habitat by Craig Coastal Management Program			Not Designated
Other Stakeholder Considerations										
Fisheries	Salmon, Groundfish, Crab	Salmon, Groundfish, Crab	Salmon, Herring, Groundfish, Crab		Salmon, Groundfish, Crab		Salmon, Herring, Groundfish, Crab			Salmon, Groundfish, Crab
Historic Properties	Historic Properties are present throughout the area.									
Mariculture*	None	None	Hatchery operations in the area.		None	Mariculture activities in the area	Hatchery operations in the area.			None
Subsistence	Low level subsistence use	High local subsistence use		Low level subsistence use			High local subsistence use			Low level subsistence use
Tourism/Recreation	High level recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting									
Waterfront Public Facilities/Parks	Tongass National Forest-No waterfront facilities	Small boat harbor and supporting services are present in Hydaburg. Tongass National Forest	Municipality owned small boat harbor and supporting services are present in Klawock. Tongass National Forest.		Tongass National Forest, no services available		Municipality owned small boat harbor and supporting services are present in Craig. Tongass National Forest.			Tongass National Forest, no services available.
Waterfront Private Facilities	None present	Marine services docks and piers in Hydaburg.	Additional marine services docks and piers in Klawock.		None present		Additional marine services docks and piers in Craig.			None present
Response and Salvage Resource Consideration										
Ability to Boom Vessel	No	Weather Dependent	Yes	Yes	No	Yes	Yes	Weather Dependent	Yes	Weather Dependent
Geographic Response Strategies	None (2010)									
Closest Alternative PPOR for a same sized vessel	7 to D-02-02	7 to D-02-01	.75 to D-02-04	.75 to D-02-03	27 to D-02-06	27 to D-02-05	.75 to L-02-03	.2 to L-02-03	.2 to L-02-02	22 to L-02-02

Physical and Operational Characteristics for PPOR Map 02 of the Southeast Alaska Subarea										
	Alder Cove Anchorage	Saltery Point Moorage	Klawock Mill Dock	Klawock Island Dock	Kell Bay	Admiralty Mine Dock	Craig City Dock	Crab Bay Anchorage	Petro-Marine Dock	Warm Chuck Inlet
ID Number	D-02-01	D-02-02	D-02-03	D-02-04	D-02-05	D-02-06	L-02-01	L-02-02	L-02-03	L-02-04
Location-(In the general area of)	55°06.84'N 132°38.58'W	55°11.10'N 132°48.24'W	55°32.40'N 133°06.42'W	55°33.24'N133°06.66'W	56°09.48'N134°06.36'W	56°09.60'N133°28.08'W	55°28.62'N133°09.24'W	55°29.04'N133°09.00'W	55°29.28'N133°08.52'W	55°45.36'N133°29.82'W
Maximum Vessel Size	Deep Draft Vessels- lengths up to 1000 feet, 20-40 feet of draft, greater than 10,000 GT						Light Draft Vessel - up to 450 feet in length, draft up to 20 feet			
Type of Berthing	Anchorage	Moorage	Dock		Anchorage	Dock		Anchorage	Dock	Anchorage
Contact	N/A	Sealaska Timber Corp. 907.225.9444	Viking Lumber Co. 907.755.8880	Office 907.225.9444	N/A	Select Resources Inc.1800.579.9314	Harbor master 907.826.3404	N/A	Plant Manager 907.826.3296	N/A
Navigational Approach	Approach from the SW	SE through Sukkwan Strait	Approach via marked channel from San Alberto Bay		Approach from the E via Affleck Canal	Approach via Shakan Strait	Approach via marked channel from San Alberto Bay			Approach from the SE
Minimum Water Depths (MLLW)	9 fathoms	6 fathoms	42 feet	37 feet	11 fathoms	34 feet	20 feet	9 fathoms	20 feet	18 fathoms
Maximum Vessel Draft	40 ft. +	30 ft.	35 ft.	30 ft.	40 ft. +	30 ft.	15 ft.	20 ft. +	15 ft.	20 ft. +
Swing Room or Dock Face (w/ dolphins)	3000 ft.	800 ft.	500 ft. face 900 ft. total	440 ft.	3000 ft.	250 ft.	72 ft.	1200 ft.	100 ft.	1800 ft.
Bottom Type	Mud, Shells	N/A		N/A	Mud	N/A	N/A	Mud	N/A	Rocky
Nearest Alternative Dock/Piers	73 nm to D-01-02 (Metlakatla)	80 nm to D-01-02 (Metlakatla)	0.75 nm to D-02-04	0.75 nm to D-02-03	28 nm to D-02-06	55 nm to D-02-03	0.75 nm to L-02-02	0.5 nm to L-02-01	0.75 nm to L-02-01	20 nm to L-02-01
Nearest Alternative Anchorage	7.5 nm to D-02-02	7.5 nm to D-02-01	50 nm to D-02-05	50 nm to D-02-05	53 nm to D-03-02	28 nm to D-02-05	0.5 nm to L-02-02	20 nm to L-02-04	0.5 nm to L-02-02	20 nm to L-02-02
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February									
Currents	Light currents in the Inlet. Minimal currents at the anchorages	The average maximum current is about 1.3 knots and sets NW with the flood and SE with the ebb.	Minimal currents at the docks.		Minimal currents at the anchorages	currents unreported at the dock.	Light currents. The flood current sets toward the wharf and the ebb current sets off the wharf.			Light currents in the Strait. Minimal currents at the anchorages
Tides	Mean High 11.8 ft. (Higher 12.7) Mean Low 1.5 (Lower -4.0)	Mean High 12.0 ft. (Higher 12.9) Mean Low 1.5 (Lower -4.0)	Mean High 9.2 ft. (Higher 10) Mean Low 0.0 (Lower -4.0)		Mean High 10.4 ft. (Higher 11.2) Mean Low 1.4(Lower 0.0)	Mean High 10.9 ft. (Higher 11.7) Mean Low 1.3 (Lower -4.0)	Mean High 9.2ft. (Higher 10) Mean Low 0.0 (Lower -4.0)			Mean High 9.3ft. (Higher 10.2) Mean Low 0.0 (Lower -4.0)
Sea Conditions	Exposed to swells from the N & S	Sheltered	Sheltered		Sheltered	Sheltered	Sheltered			Exposed to swell from the SE
Shelter from Severe Storms	Sheltered from E & W storms									Sheltered from storms from the SW-SE
Fog	Frequent throughout the year. Heaviest from June-July.									
Ice	Ice can form in bays from November until May if colder conditions prevail.									

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm

Site ID Number and Vessel Size Classification	
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT	
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft	
Stakeholders for PPOR Zone 02 of the Southeast Alaska Subarea	
Organization	Contact
Alaska Department of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer
Central Council Tlingit-Haida Tribal	President
City of Craig	Mayor
City of Klawock	Mayor
Klawock Heenya Corporation	President
Native Allotments	Dept of the Interior-Regional Environmental Officer
Sealaska Corporation	President
Shaan-Seet Inc.	President
Tongass National Forest	Forest Supervisor

*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: <http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php>



L-03-03, anchorage area near Salmon Bay viewed from the north.



Steamer Bay viewed from the south.



Wrangell Cruiseship Wharf, Ferry Dock and Woronkofski Anchorage viewed from the east.

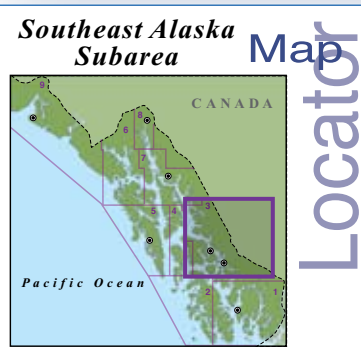
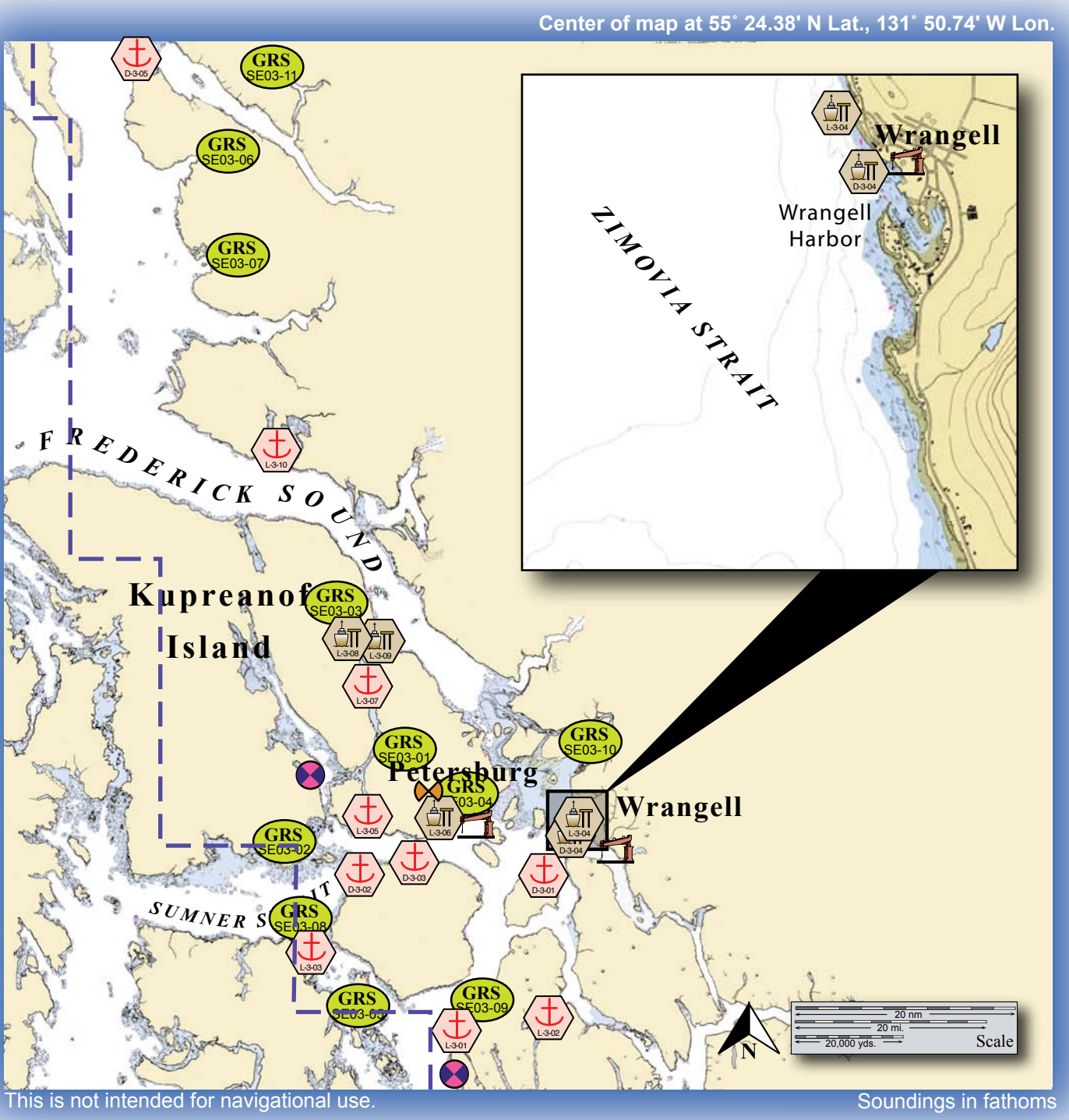


Petersburg Ferry Terminal and Scow Bay Anchorage viewed from the north.



Entrance to Farragut Bay, L-03-10, viewed from the northwest.

Potential Places of Refuge for Southeast Alaska Subarea



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Aquatic Farms
	Crane		Private Cabins
	Airport		Public Use Cabins
			Boat Harbor

Southeast PPOR Map 03

USGS 1:217,828K Quadrangle Map Reference - Etolin Isl to Midway Isl Including Sumner Strait 17360_1

Site Considerations for PPOR Zone 03 of the Southeast Alaska Subarea																
	Woronkofski Island	St. John Harbor	Baht Harbor	Wrangell Cruise Vessel Wharf	Holkum Bay	Steamer Bay	Anita Bay	Near Salmon Bay	Wrangell Ferry Terminal	Point Alexander	South Mitkof Ferry Terminal	Scow Bay Anchorage	Petersburg Ferry Dock	Petersburg Ocean Beauty Dock	Farragut Bay	
ID Number	D-3-01	D-3-02	D-3-03	D-3-04	D-3-05	L-3-01	L-3-02	L-3-03	L-3-04	L-3-05	L-3-06	L-3-07	L-3-08	L-3-09	L-03-10	
Human Health & Safety																
Community-distance to (nm)	2.5 to Wrangell	20 to Wrangell	14 to Wrangell	0 to Wrangell	40 to Juneau	24 to Wrangell	17 to Wrangell	30 to Wrangell	0 to Wrangell	20 to Wrangell	12 to Wrangell	2.5 to Petersburg	0 to Petersburg	0 to Petersburg	23 to Petersburg	
Health Care Facilities	Clinic Services in Wrangell				Full Hospital Services in Juneau	Clinic Services in Wrangell						Clinic Services in Petersburg				
Natural Resources Considerations																
Fish & Wildlife	Spawning salmon & herring, seals, waterfowl															
Threatened & Endangered Species	None (2010)															
Sensitive Areas	MESA-63-Stikine River Flats nearby	Not Designated		MESA-63-Stikine River Flats nearby. Area designated sensitive by SE GRS Workgroup	Not Designated	Area designated sensitive by SE GRS Workgroup	Not Designated	Area designated sensitive by SE GRS Workgroup	MESA-63-Stikine River Flats nearby.	Area designated sensitive by SE GRS Workgroup	MESA-63-Stikine River Flats nearby. Area designated sensitive by SE GRS Workgroup.	Area designated sensitive by SE GRS Workgroup		Not Designated		
Other Stakeholder Considerations																
Fisheries	Salmon, Groundfish, Crab															
Historic Properties	Historic Properties are present throughout the area.															
Mariculture*	None															
Subsistence	High local subsistence use	Low level local subsistence use				High local subsistence use	Low level local subsistence use		High local subsistence use				Low level local subsistence use			
Tourism/Recreation	High level recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting															
Waterfront Public Facilities/Parks	Municipality owned small boat harbor and supporting services are present in Wrangell. Tongass National Forest.	Tongass National Forest-no services available.		Municipality owned small boat harbor and supporting services are present in Wrangell. Tongass National Forest.	Tongass National Forest-no services available.	Tongass National Forest-no services available.	Tongass National Forest-no services available.		Municipality owned small boat harbor and supporting services are present in Wrangell. Tongass National Forest.	Tongass National Forest-no services available.	State Ferry Dock and small pier and road access to Petersburg. Tongass National Forest	Municipality owned small boat harbor and supporting services are present in Petersburg. Tongass National Forest.		Tongass National Forest-no services available.		
Waterfront Private Facilities	Marine services docks and piers in Wrangell	None		Marine services docks and piers in Wrangell	None	Small private docks in the vicinity.	None		Marine services docks and piers in Wrangell	None		Marine services docks and piers in Petersburg		None		
Response and Salvage Resource Consideration																
Ability to Boom Vessel	Weather Dependent		No	Yes	Yes	Weather Dependent			Yes	Weather Dependent	Yes	Weather Dependent	Yes		Weather Dependent	
Geographic Response Strategies	SE01-06	None (2009)		SE01-01	None (2009)		SE03-09	SE03-08		SE03-02	SE03-04	SE03-03			None (2010)	
Closest Alternative PPOR for a same sized vessel	2.5 nm to D-03-04	6 nm to D-02-03	6 nm to D-02-02	2.5 nm to D-03-01	25 nm to D-07-02	16 nm to L-03-03	17 nm to L-03-04	6 nm to L-04-02	11 nm to L-03-06	11 nm L-03-06	11 nm L-03-05	.5 nm to L-03-09	.5 nm to L-03-09	.5 nm to L-03-08	27 nm to L-03-09	

Physical and Operational Characteristics for PPOR Map 03 of the Southeast Alaska Subarea															
	Woronkofski Island	St. John Harbor	Baht Harbor	Wrangell Cruise Vessel Wharf	Holkum Bay	Steamer Bay	Anita Bay	Near Salmon Bay	Wrangell Ferry Terminal	Point Alexander	South Mitkof Ferry Terminal	Scow Bay Anchorage	Petersburg Ferry Dock	Petersburg Ocean Beauty Dock	Farragut Bay
ID Number	D-03-01	D-03-02	D-03-03	D-03-04	D-03-05	L-03-01	L-03-02	L-03-03	L-03-04	L-03-05	L-03-06	L-03-07	L-03-08	L-03-09	L-03-10
Location-(In the general area of)	56°26.16'N 132°25.91'W	56°26.76'N 133°00.06'W	56°27.21'N 132°48.56'W	56°28.20'N 132°23.28'W	57°45.28'N 133°39.38'W	56°10.52'N 132°42.49'W	56°12.00'N 132°25.14'W	56°17.54'N 133°06.74'W	56°28.44'N 132°23.46'W	56°31.04'N 132°57.85'W	56°31.92'N 132°42.71'W	56°46.00'N 132°58.47'W	56°48.54'N 132°58.56'W	56°48.90'N 132°57.54'W	57°07.29'N 133°14.58'W
Maximum Vessel Size	Deep Draft Vessels- lengths up to 1000 feet, 20-40 feet of draft, greater than 10,000 GT					Light Draft Vessel - up to 450 feet in length, draft up to 20 feet									
Type of Berthing	Anchorage			Dock	Anchorage				Dock	Anchorage	Dock	Anchorage	Dock		Anchorage
Contact	N/A			Harbormaster 907.874.3736	N/A				Harbormaster 907.874.3736	N/A	Terminal Operations Manager	N/A	Terminal Operations Manager	Plant Manager 206.285.6800 (Oct-March) 907.772.4242 (April-Sept)	N/A
Navigational Approach	N from Stikine Strait or SE from Chichagof Strait	Approach from the E or W in Sumner Strait		Approach from the W	Approach from the SW- NW	Approach from the N	Approach from E via Zimovia Strait	Approach from the W	Approach from the W	Approach from the S	Approach from the SE	Approach from the N or S	Approach from the NW or NE		Approach from the S
Minimum Water Depths (MLLW)	19 fathoms	4.5 fathoms	24 fathoms	35 ft.	26 fathoms	17 fathoms	25 fathoms	24 fathoms	24 ft.	11 fathoms	20 ft.	12 fathoms	28 ft.	20 ft.	25 fathoms
Maximum Vessel Draft	40 ft. +	20 ft.	40 ft. +	30 ft.	40 ft.	30 ft. +	20 ft. +	20 ft. +	20 ft.	20 ft. +	15 ft.	20 ft. +	20 ft. +	15 ft.	20 ft. +
Swing Room or Dock Face (w/ dolphins)	4000 ft.	2000 ft.	3000 ft.	720 ft.	3000 ft.	1800 ft.	2400 ft.	1200 ft.	626 ft.	1600 ft.	80 ft.	900 ft.	600 ft.	300 ft.	2500 ft.
Bottom Type	Mud	Sand, Mud, Gravel	Clay	N/A	Clay, Sand	Shells	Mud	Mud	N/A	Mud, Sand	N/A	Mud, Shells	N/A		Gravel, Rocky, Mud
Nearest Alternative Dock/Piers	2.5nm to D-03-04	21nm to D-03-04	19 nm to D-03-04	88 nm to Ketchikan Docks	41 nm to Juneau Docks	25 nm to Wrangell Docks	20 nm to Wrangell Docks	20 nm to L-03-06	0.3 nm to D-03-04	11 nm to L-03-06	12 nm to Wrangell Docks	2.5nm to Petersburg Docks	0.5nm to L-03-09	0.5nm to L-03-08	24 nm to L-03-09
Nearest Alternative Anchorage	12 nm to D-03-03	6 nm to D-03-04	6 nm to D-03-02	2.5nm to D-03-01	24 nm to D-07-02	16 nm to L-03-03	17 nm to D-03-01	6 nm to L-04-02	2.5nm to D-03-01	13 nm to L-04-02	11 nm L-03-05	16 nm L-03-05	2.5 nm to L-03-07	2.5 nm to L-03-07	26.5 nm to L-03-07
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February														
Currents	Tidal currents in the area are variable.	Currents up to 1.2 to 2 knots in the wide parts of the Strait. Significantly more current in constricted areas.		Tidal currents in the area are variable.	Minimal currents at the anchorage.	Currents up to 1.2 to 2 knots in the wide parts of the Strait. Minimal currents at the anchorage.	Minimal currents at the anchorage.	Currents in the bay are minimal. Nearby currents can approach 3 knots.	Tidal currents in the area are variable.	Currents up to 1 to 2 knots in the wide parts of the Strait. Significantly more current in constricted areas.	Currents in the bay are minimal. Nearby currents can approach 3 knots.	Current varies throughout the Narrows. Off Petersburg, the velocity of the current is 3.5 knots.			Currents in the bay are minimal.
Tides	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.5 (Lower - 5.5)	Mean High 13.8 ft. (Higher 14.6) Mean Low 0.0(Lower -1.5)		Mean High 14.8 ft. (Higher 15.7) Mean Low 1.5 (Lower -5.5)	Mean High 14.5 ft. (Higher 15.4 Mean Low 1.5 (Lower 0.0)	Mean High 15.4 ft. (Higher 16.3 Mean Low 1.4 (Lower -4.5)	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.5 (Lower -5.5)	Mean High 13.7 ft. (Higher 14.6) Mean Low 1.6(Lower -4.5)	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.5 (Lower -5.5)	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.5 (Lower -5.5)		Mean High 14.8 ft. (Higher 15.7) Mean Low 1.4 (Lower -4.5)			Mean High 14.8ft. (Higher 15.4) Mean Low 1.5(Lower -5.0)
Sea Conditions	Exposed to swells from the NE-NW	Exposed to swells from the E & W		Exposed to swells from the W	Exposed to swells from the W	Exposed to swells from the NE	Sheltered	Exposed to swells from the N	Exposed to swells from the W	Exposed to swells from the SW	Sheltered	Sheltered	Sheltered	Sheltered	Exposed to swells from the S
Shelter from Severe Storms	Sheltered from E-W storms	Sheltered from N & S storms		Sheltered from N-S	Sheltered from W-E	Sheltered from N-E		Sheltered from N	Sheltered from N-S	Sheltered from W-S					Sheltered from W-E
Fog	Frequent throughout the year. Heaviest from June-July.														
Ice	Ice from nearby glaciers and outflow from rivers with ice in spring may present navigational hazards. Ice may form in bays from November until May if colder conditions prevail.														

Site ID Number and Vessel Size Classification	
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT	
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft	
Stakeholders for PPOR Zone 03 of the Southeast Alaska Subarea	
Organization	Contact
Alaska Department of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer
City & Borough of Wrangell	Manager
City of Petersburg	Manager
Central Council Tlingit-Haida Tribal	President
Native Allotments	Dept of the Interior-Regional Environmental Officer
Petersburg Indian Association	President
Sealaska Corporation	President
Tongass National Forest	Forest Supervisor
Wrangell Cooperative Association	President

*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: <http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php>

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm



L-04-06 Gambier Bay entrance viewed from the west.



D-4-01-Saginaw Bay viewed from the north.



Kake Anchorage and Kake viewed from the northwest.

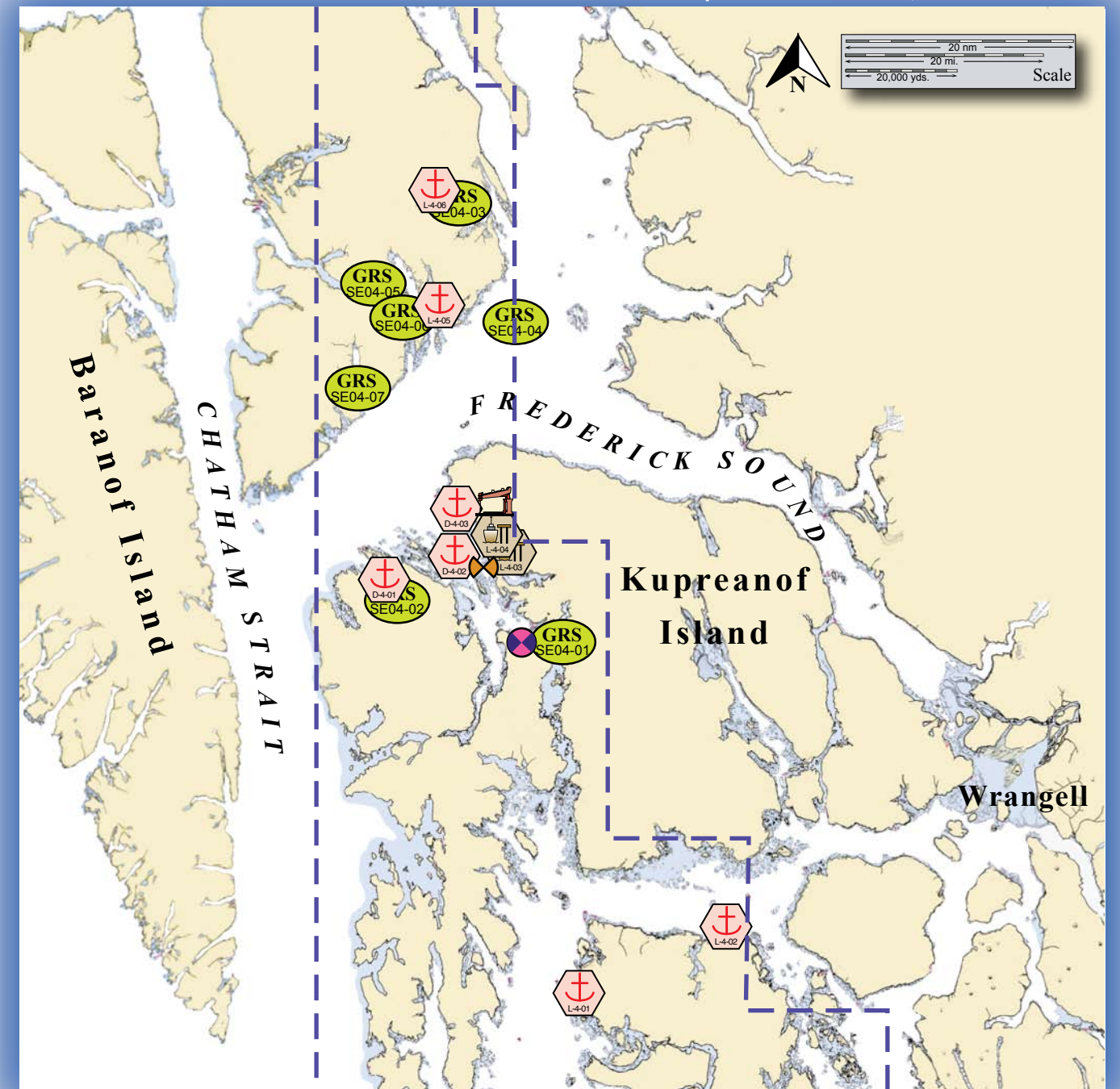


Kake Cargo Dock and Ferry Terminal viewed from the north-east.

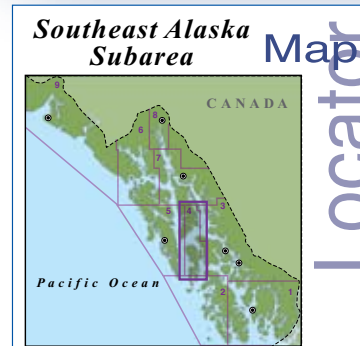


L-4-05-Pybus Bay viewed from the east.

Potential Places of Refuge for Southeast Alaska Subarea



This is not intended for navigational use.



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Aquatic Farms
	Crane		Private Cabins
	Airport		Public Use Cabins
			Boat Harbor

Southeast PPOR Map 04

USGS 1:217,828K Quadrangle Map
Reference - Etolin Isl to Midway Isl
Including Sumner Strait 17360_1

Site Considerations for PPOR Zone 04 of the Southeast Alaska Subarea									
	Saginaw Bay	Keku Strait	Kake Anchorage	Calder Rocks	California Bay	Kake Cargo Dock	Kake Ferry Terminal	Pybus Bay	Gambier Bay
ID Number	D-4-01	D-4-02	D-4-03	L-4-01	L-4-02	L-4-03	L-4-04	L-4-05	L-04-06
Human Health & Safety									
Community-distance to (nm)	15 to Kake	15 to Kake	1 to Kake	55 to Wrangell	33 to Wrangell	0 to Kake	0 to Kake	21 to Kake	37 to Kake
Health Care Facilities	Clinic Services in Kake			Clinic Services in Wrangell		Clinic Services in Kake			
Natural Resources Considerations									
Fish & Wildlife	Spawning salmon, seals, otters, waterfowl, seabirds	Spawning salmon, seals, otters, waterfowl		Spawning salmon, seals, otters, waterfowl, seabirds	Spawning salmon, seals, otters, waterfowl				
Threatened & Endangered Species	None (2010)								
Sensitive Areas	Not Designated	Adjacent area designated sensitive by SE GRS Workgroup		Not Designated		Adjacent area designated sensitive by SE GRS Workgroup			
Other Stakeholder Considerations									
Fisheries	Salmon, Groundfish, Crab								
Historic Properties	Historic Properties are present throughout the area.								
Mariculture*	None	None	Hatchery operations in the Kake area	None	Hatchery operations in the Ketchikan area	Hatchery operations in the Kake area	Hatchery operations in the Kake area	None	None
Subsistence	Low level subsistence use	High local subsistence use		Low level subsistence use		High local subsistence use		Low level subsistence use	
Tourism/Recreation	High level recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting								
Waterfront Public Facilities/Parks	Tongass National Forest-No waterfront facilities	Small boat harbor and supporting services are present in Kake. Tongass National Forest		Tongass National Forest-No waterfront facilities		Small boat harbor and supporting services are present in Kake. Tongass National Forest		Tongass National Forest-No waterfront facilities	
Waterfront Private Facilities	None present	Marine services docks and piers in Kake		None present		Marine services docks and piers in Kake		None present	
Response and Salvage Resource Consideration									
Ability to Boom Vessel	Weather Dependent					Yes		Weather Dependent	
Geographic Response Strategies	None (2010)	SE04-02		None (2010)		SE04-02		SE04-03	SE04-06
Closest Alternative PPOR for a same sized vessel	15 nm to D-04-03	2 nm to D-04-03	2 nm to D-04-02	23 nm to L-04-02	6 nm to L-03-03	.3 nm to L-04-04	.3 nm to L-04-03	21 nm to L-04-04	22 nm to L-04-05

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

Physical and Operational Characteristics for PPOR Map 04 of the Southeast Alaska Subarea									
Saginaw Bay		Keku Strait	Kake Anchorage	Calder Rocks	California Bay	Kake Cargo Dock	Kake Ferry Terminal	Pybus Bay	Gambier Bay
ID Number	D-04-01	D-04-02	D-04-03	L-04-01	L-04-02	L-04-03	L-04-04	L-04-05	L-04-06
Location-(In the general area of)	56°53.48'N 134°12.39'W	56°58.86'N 134°05.17'W	56°58.68'N 133°58.50'W	56°15.03'N 133°39.08'W	56°23.43'N 133°13.57'W	56°57.54'N 133°54.84'W	56°57.66'N 133°55.32'W	57°18.93'N 134°02.46'W	57°28.98'N 134°02.16'W
Maximum Vessel Size	Deep Draft Vessels- lengths up to 1000 feet, 20-40 feet of draft, greater than 10,000 GT			Light Draft Vessel - up to 450 feet in length, draft up to 20 feet					
Type of Berthing	Anchorage					Dock		Anchorage	
Contact	N/A					Harbor Master 907.785.3251		N/A	
Navigational Approach	NW from Frederick Sound	Approach from the NW		Approach from the NW or SW	Approach from the N	Approach from the NW		Approach from the S	Approach from the E
Minimum Water Depths (MLLW)	10 fathoms	7 fathoms	22 fathoms	20 fathoms	33 fathoms	15 ft.	15 ft.	17 fathoms	25 fathoms
Maximum Vessel Draft	40 ft. +	40 ft.	40 ft. +	20 ft. +		12 ft.	12 ft.	20 ft. +	
Swing Room or Dock Face (w/ dolphins)	4200 ft.	3200 ft.	2400 ft.	3000 ft.	2400 ft.	300 ft.	300 ft.	1800 ft.	5000 ft.
Bottom Type	Mud, Shells	Sand, Shells	Gravel, Shells	Sand, Shells	Mud, Shells	N/A		Mud	
Nearest Alternative Dock/Piers	100 nm to deep draft docks in Juneau	92 nm to to deep draft docks in Juneau		12 nm to dock in Shakan Bay D-02-06	24 nm to Wrangell docks	0.3 nm to L-04-04	0.3 nm to L-04-03	24 nm to L-04-04	38 nm to L-04-04
Nearest Alternative Anchorage	15nm to D-04-03	2 nm to D-04-03	2 nm to D-04-02	23 nm to L-04-02	6 nm to L-03-03	0.5 nm to D-04-03		18 nm to L-04-06	18 nm to L-04-05
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February								
Currents	Frederick Sound has currents up to 1.2 knots. Significantly more current in constricted areas.	Keku Strait has currents up to 1.2 to 2 knots in the wide parts. Significantly more current in constricted areas.		Light currents in the Strait. Minimal currents at the anchorages.		Keku Strait has currents up to 1.2 to 2 knots in the wide parts. Significantly more current in constricted areas.		Currents in the channel are significant.	Minimal currents at the anchorages.
Tides	Mean High 13.1 ft. (Higher 14) Mean Low 1.5 (Lower -4.0)	Mean High 13.1 ft. (Higher 14) Mean Low 1.4 (Lower -4.0)		Mean High 10.9 ft. (Higher 11.7) Mean Low 1.4(Lower -4.0)	Mean High 13.1 ft. (Higher 14) Mean Low 1.5 (Lower -4.0)	Mean High 13.1 ft. (Higher 14) Mean Low 1.4 (Lower -4.0)		Mean High 13.4 ft. (Higher 14.3) Mean Low 1.5(Lower -5.0)	Mean High 14.0 ft. (Higher 14.9) Mean Low 0.0 (Lower -5.5)
Sea Conditions	Exposed to swells from the NW			Exposed to swells from the SW-NW	Exposed to swells from the NW-NE	Sheltered			
Shelter from Severe Storms	Sheltered from NE-W storms			Sheltered from NW-SW	Sheltered from S				
Fog	Frequent throughout the year. Heaviest from June-July.								
Ice	Ice can form in bays from November until May if colder conditions prevail.								

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm

Stakeholders for PPOR Zone 04 of the Southeast Alaska Subarea	
Organization	Contact
Alaska Department of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer
Cape Fox Corporation	CEO
Central Council Tlingit-Haida Tribal	President
City of Kake	Mayor
Kake Tribal Corporation	President
Native Allotments	Dept of the Interior-Regional Environmental Officer
Organized Village of Kake	President
Sealaska Corporation	President

*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: <http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php>



Angoon Ferry Terminal viewed from the south.



L-05-10 Point Elizabeth Anchorage viewed from the north-east.



Sitka Ferry Terminal and Samson Tug Dock viewed from the northeast.

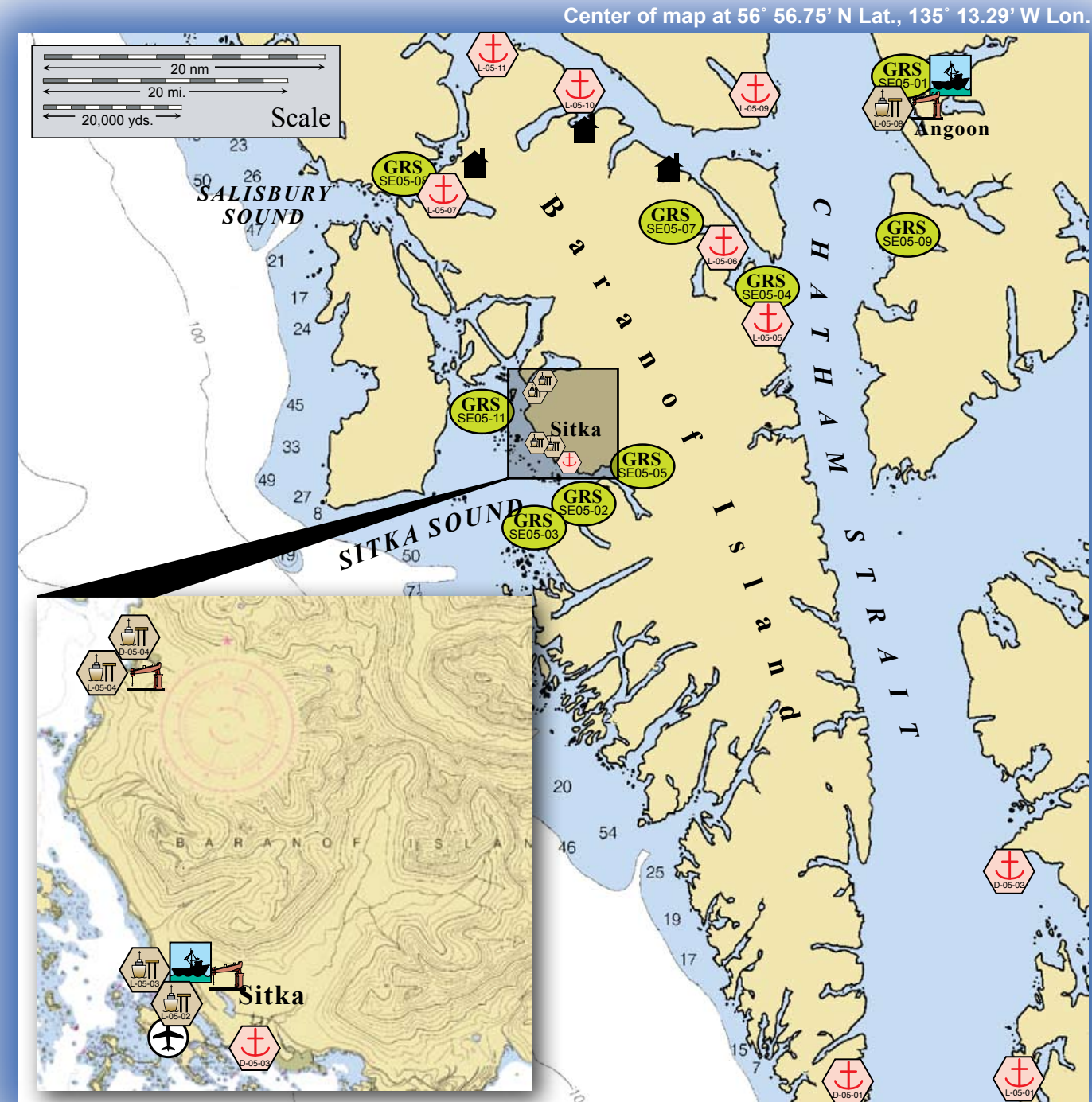


L-05-09-Florence Bay viewed from southeast.

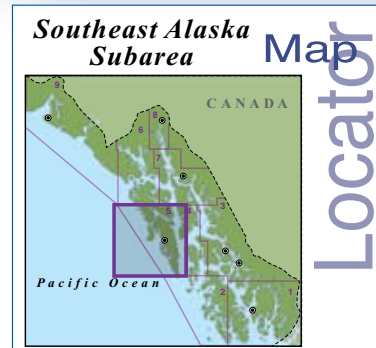


The East Anchorage and Sitka Harbor viewed from the south-east.

Potential Places of Refuge for Southeast Alaska Subarea



This is not intended for navigational use. Soundings in fathoms



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Private Cabins
	Crane		Public Use Cabins
	Airport		Boat Harbor

Southeast PPOR Map 05
 USGS 1:969,756K Quadrangle Map
 Reference - Dixon Entrance to Cape St Elias 16016_1

Site Considerations for PPOR Zone 05 of the Southeast Alaska Subarea															
	Port Conclusion	Tebenkof Bay	Eastern Anchorage	Samson Tug Dock	Port Malmesbury	USCG Dock	Sitka City Dock	Sitka Ferry Dock	Kasnyku Bay	Kelp Bay	Fish Bay	Angoon Ferry Terminal	Florence Bay	Point Elizabeth	Deadman Reach
ID Number	D-05-01	D-05-02	D-05-03	D-05-04	L-05-01	L-05-02	L-05-03	L-05-04	L-05-05	L-05-06	L-05-07	L-05-08	L-05-09	L-05-10	L-05-11
Human Health & Safety															
Community-distance to (nm)	5 to Port Alexander	22 to Port Alexander	1.5 to Sitka	0 to Sitka	13 to Port Alexander	0 to Sitka			18 to Angoon	20 to Angoon	33 to Sitka	2 to Angoon	12 to Angoon	24 to Angoon	40 to Sitka
Health Care Facilities	EMS services in Port Alexander		Full Hospital Services in Sitka		EMS services in Port Alexander	Full Hospital Services in Sitka			Clinic Services in Angoon		Full Hospital Services in Sitka	Clinic Services in Angoon			Full Hospital Services in Sitka
Natural Resources Considerations															
Fish & Wildlife	Spawning salmon, seals, waterfowl concentrations	Spawning salmon, seals, waterfowl concentrations			Spawning salmon, seals, otters, waterfowl concentrations	Spawning salmon, herring, seals, otters, waterfowl and seabird concentrations			Spawning salmon, seals, otters, waterfowl, Steller sea lions in area		Spawning salmon, herring, seals, otters, waterfowl	Spawning salmon, seals, otters, waterfowl concentrations, humpback whale concentration			
Threatened & Endangered Species	Steller sea lions (threatened) haul-out at Cape Ommaney	None	Steller sea lions (threatened) in the area		None	Steller sea lions (threatened) in the area			Steller sea lion haulout in the area		None	Steller sea lions (threatened) in the area		None	
Sensitive Areas	No designated areas	Designated Wilderness Area	This locale is designated as a Special Management Area of the Sitka Coastal Mgt. Plan. Area designated sensitive by SE GRS Workgroup. MESA-62 St. Lazaria in Sitka Sound.		Not Designated	MESA-62 St. Lazaria Is. These locales are a Special Management Area of the the Sitka Coastal Mgt. Plan. Designated high priority by SE GRS Workgroup.			Designated high priority by SE GRS Workgroup.	These locales are Special Management Areas of the Sitka Coastal Mgt. Plan.		Area designated high priority by SE GRS Workgroup.	These locales are a Special Management Area of the Sitka Coastal Mgt. Plan.		
Other Stakeholder Considerations															
Fisheries	Salmon, Groundfish, Crab		Salmon, Groundfish, Crab, Herring		Salmon, Groundfish, Crab	Salmon, Groundfish, Crab, Herring			Salmon, Crab, Groundfish		Salmon, Groundfish, Crab, Herring	Salmon, Crab, Groundfish			
Historic Properties	Historic properties are present throughout the area.														
Mariculture*	Little Port Walter Fish Hatchery nearby	None	Hatchery and Shellfish Mariculture present		None Present	Hatchery and Shellfish Mariculture present			Hatchery rearing pens nearby	None present					
Subsistence	High local subsistence use	Low level subsistence use	High local subsistence use		Low level subsistence use	High local subsistence use-salmon, herring, crab									
Tourism/Recreation	High recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting														
Waterfront Public Facilities/Parks	Tongass National Forest-No waterfront facilities	Tebenkof Bay Wilderness Area-no waterfront facilities	Municipality owned small boat harbor and supporting services are present in Sitka. Tongass National Forest	Starrigavan State Parks, Old Sitka State Historical Park, Starrigavan Forest Service campground. Sitka Harbor nearby	Tongass National Forest-No waterfront facilities	Municipality owned small boat harbor and supporting services are present in Sitka. Tongass National Forest .		Starrigavan State Parks, Old Sitka State Historical Park, Starrigavan Forest Service campground. Sitka Harbor nearby	Tongass National Forest-No waterfront facilities		Tongass National Forest-Small cabin in bay	State Ferry Terminal	Tongass National Forest-No waterfront facilities		
Waterfront Private Facilities	None present		Numerous marine services docks and piers		None	Numerous marine services docks and piers			None	Private Docks	None	Private facilities in Angoon	None		
Response and Salvage Resource Consideration															
Ability to Boom Vessel	Weather Dependent		Weather Dependent	Yes	Weather Dependent	Yes		Yes	Weather Dependent			Yes	Weather Dependent		
Geographic Response Strategies	None (2009)		SE05-02,03,05,11	SE05-11	None (2009)	SE05-02,03,05,11			SE05-04	SE05-07	None (2009)	SE05-01	None (2009)		
Closest Alternative PPOR for a same sized vessel	20 to D-05-02	20 to D-05-01	9 to D-05-04	9 to D-05-03	12 to D-05-01	.25 to L-05-03	.25 to L-05-02	7 to L-05-03	8.75 to L-05-06	8.75 to L-05-05	15 to L-05-11	12 to L-05-09	12 to L-05-08	8.5 to L-05-11	8.5 to L-05-10
Site ID Number and Vessel Size Classification												Stakeholders for PPOR Zone 05 of the Southeast Alaska Subarea			
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT															
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft															
*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php															
Physical and Operational Characteristics for PPOR Map 05 of the Southeast Alaska Subarea															
	Port Conclusion	Tebenkof Bay	Eastern Anchorage	Samson Tug Dock	Port Malmesbury	USCG Dock	Sitka City Dock	Sitka Ferry Dock	Kasnyku Bay	Kelp Bay	Fish Bay	Angoon Ferry Terminal	Florence Bay	Point Elizabeth	Deadman Reach
ID Number	D-05-01	D-05-02	D-05-03	D-05-04	L-05-01	L-05-02	L-05-03	L-05-04	L-05-05	L-05-06	L-05-07	L-05-08	L-05-09	L-05-10	L-05-11
Location (in the general area)	56°15.89'N 134°39.89'W	56°32.31'N 134°18.09'W	57°02.27'N 135°18.22'W	57°07.74'N 135°22.98'W	56°16.77'N 134°16.61'W	57°03.00'N 135°20.72'W	57°03.24'N 135°20.88'W	57°07.98'N 135°22.75'W	57°12.91'N 134°50.93'W	57°18.63'N 134°56.70'W	57°22.64'N 135°35.12'W	57°28.33'N 134°33.97'W	57°29.89'N 134°52.82'W	57°30.34'N 135°16.26'W	57°33.33'N 135°28.51'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT				Light Draft Vessel - up to 450 feet in length, draft up to 20 feet										
Type of Berthing	Anchorage			Dock	Anchorage	Dock			Anchorage			Dock	Anchorage		
Contact	N/A		Harbormaster 907.747.3439	907.747.8559	N/A	Commanding Officer 907.966.5470	Harbormaster 907.747.3439	Ferry Office 907.747.8737	N/A			907.788.3653	N/A		
Navigational Approach	NE	S-SW	SW	SW	W	NW via marked channel-Approach has little maneuvering room		SW	E	E	W	S via marked channel	SE	NW-E	S-NE
Minimum Water Depths (MLLW)	41 fathoms	20 Fathoms	13 Fathoms	60/25 ft.	30 fathoms	42/22 ft.	37 ft.	30 ft.	33 fathoms	26 fathoms	33 fathoms	24 ft.	28 fathoms	27 fathoms	28 fathoms
Maximum Vessel Draft	40 ft.			Varies	No minimum depth	20 ft.	32 ft.	25 ft.	No minimum depth, limited by approach and swing room			20 ft.	No minimum depth, limited by approach and swing room		
Swing Room or Dock Face (w/ dolphins)	2000 ft.	3000 ft.	2400 ft.	300/250 ft.	2400 ft.	283/185 ft.	350 ft.	460 ft.	1000 ft.	1700 ft.	2600 ft.	200 ft.	1500 ft.	2700 ft.	2400 ft.
Bottom Type	Rocky	Gravel, Rocky, Hard	Mud	N/A	Rocky	N/A			Mud	Rocky	Mud	N/A	Hard	Hard	Mud, Sand, Hard
Nearest Alternative Dock/Piers	79 nm to D-05-04	97 nm to D-05-04	8 nm to D-05-04	Options limited for additional deep draft docks	13 nm to D-05-01	.25 nm to L-05-03	.25 nm to L-05-02	.5 nm to D-05-04	18.75nm to L-05-08	19 nm to L-05-08	25 nm to L-05-04	12.5 nm to L-05-09	12.5 to L-05-08	24 nm to L-05-08	32.5 nm to L-05-08
Nearest Alternative Anchorage	20 nm to D-05-02	20 nm to D-05-01	77 nm to D-05-01	8 nm to D-05-03	60 nm to L-05-04	4 nm to D-05-03	4 nm to D-05-03	9 nm to D-05-03	8.75 nm to L-05-06	8.75 nm to L-05-05	15 nm to L-05-11	54 nm L-04-03	17 nm to L-05-10	8.5 nm to L-05-11	8.5 nm to L-05-10
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February														
Currents	Minimum currents in anchorage			Minimal current at the dock	Currents under 1 knot	Currents under 1 knot in Sitka Harbor		Minimal current at the dock	Minimum currents in anchorage		The current is between 1.4 and 2.5 knots in Peril Strait, areas to 9 knots	Minimal current at the dock	Minimum currents in anchorage		
Tides	Mean High 10.5 ft. (Higher 11.4) Mean Low ---- (Lower -4.0)	Mean High 10.9 ft. (Higher 11.8) Mean Low 1.5 (Lower -4.0)	Mean High 9.2ft. (Higher 9.9) Mean Low 1.5 (Lower 0.0)	Mean High 14.7 ft. (Higher 15.6) Mean Low 1.6 (Lower -4.5)	Mean High 10.3 ft. (Higher 11.2) Mean Low 1.5 (Lower -4.0)	Mean High 9.2ft. (Higher 9.9) Mean Low 1.5 (Lower 0.0)			Mean High 15 ft. (Higher 15.8) Mean Low 1.4 (Lower -4.5)	Mean High 15.6 ft. (Higher 16.5) Mean Low 1.5 (Lower -4.5)	Mean High 12.4 ft. (Higher 13.6) Mean Low 1.6 (Lower -4.0)	Mean High 13.2 ft. (Higher 14.1) Mean Low 1.6 (Lower -5.5)	Mean High 13.4 ft. (Higher 14.7) Mean Low 1.6 (Lower -5.0)		
Sea Conditions	Exposed to swells from the NE	Exposed to swells from the S to E	Sheltered	Sheltered	Exposed to swells from the SW	Sheltered			Exposed to swells from SE	Sheltered	Exposed to swells from W	Sheltered	Exposed to swells from S-SE	Exposed to swells from NE, W, SW	Exposed to swells from NW
Shelter from Severe Storms	Sheltered from SE-N storms	Sheltered from N-SE storms			Sheltered from NE-SE				Sheltered from S-N		Sheltered from N-S		Sheltered from E-W	Sheltered from E, N, S	Sheltered from N-W
Fog	Frequent throughout the year. Chatham Strait area is often clear during foggy weather on the outer coast														

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm



Excursion Inlet, L-06-05 & D-06-07, viewed from the north.



Excursion Inlet Dock viewed from the northwest.



Bartlett Cove Viewed from the south.

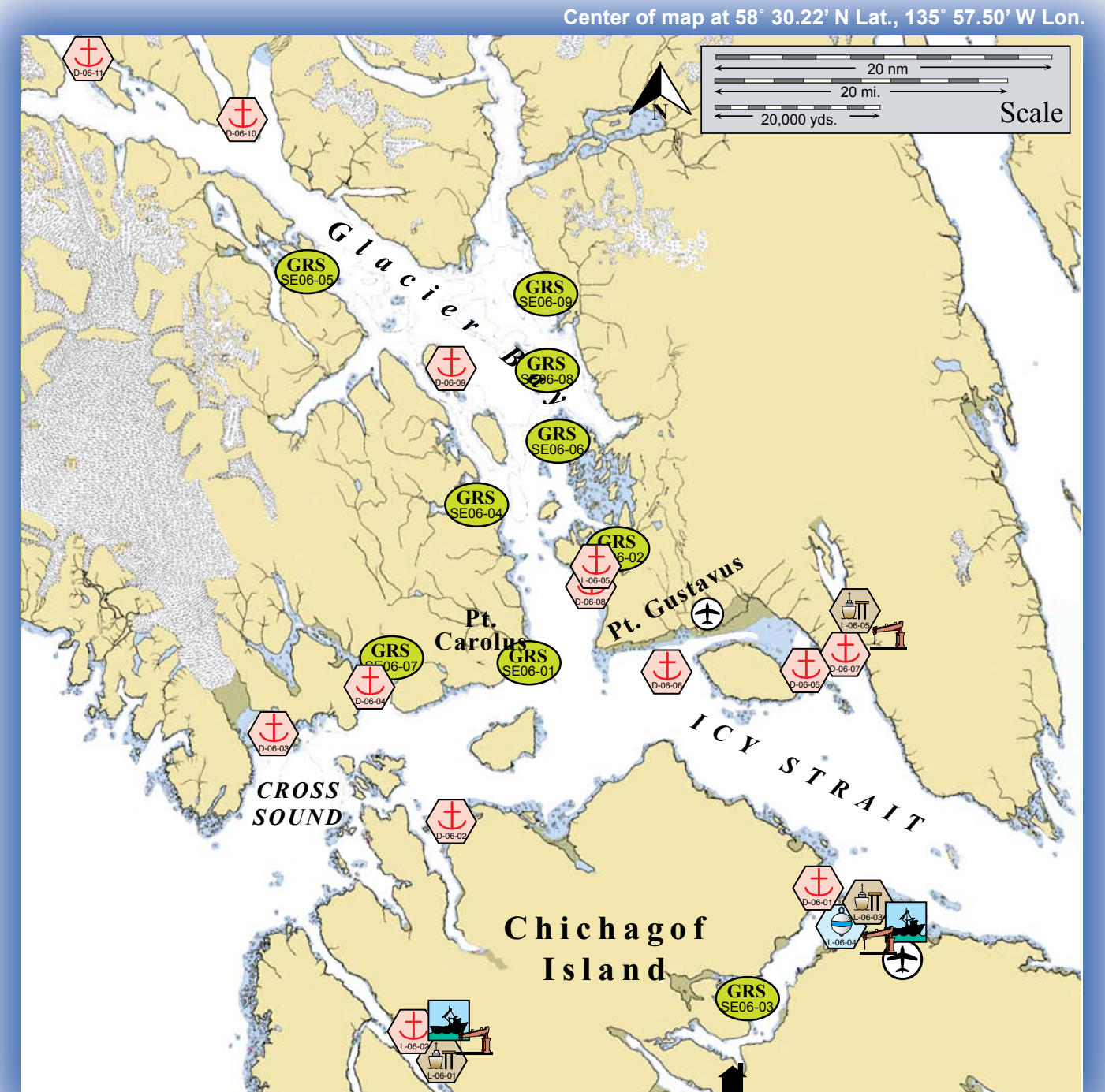


Viewed from the southwest, D-06-06 and uncompleted pier to service Gustavus (2010).



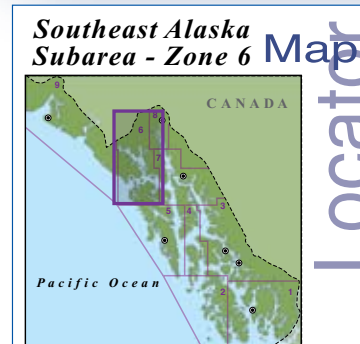
Dundas Bay viewed from the south.

Potential Places of Refuge for Southeast Alaska Subarea



This is not intended for navigational use.

Soundings in fathoms



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Private Cabins
	Crane		Public Use Cabins
	Airport		Boat Harbor

Southeast PPOR Map 06

USGS 1:209,978K Quadrangle Map
Reference - Stephens Passage to
Cross Sound Including Lynn Canal
17300_1

NUKA Research & Planning Group, LLC.

Site Considerations for PPOR Zone 06 of the Southeast Alaska Subarea																		
	Port Frederick Anchorage-Halibut Rock	Idaho Inlet	Taylor Bay	Dundas Bay	East Pleasant Island	West Pleasant Island	Excursion Inlet	Outer Bartlett Cove	Drake Island Anchorage	Composite Island	Russell Island	Pelican Ferry Terminal	Lisianski Inlet	Hoonah Ferry Terminal	Hoonah Moorage	Excursion Inlet Cannery Dock	Inner Bartlett Cove	
ID Number	D-06-01	D-06-02	D-06-03	D-06-04	D-06-05	D-06-06	D-06-07	D-06-08	D-06-09	D-06-10	D-06-11	L-06-01	L-06-02	L-06-03	L-06-04	L-06-05	L-06-06	
Human Health & Safety																		
Community-distance to (nm)	2.25 to Hoonah	19 to Gustavus	28 to Gustavus	21 to Gustavus	7 to Gustavus	2.5 to Gustavus	3.5 to Gustavus	1.5 to Gustavus	20 to Gustavus	38 to Gustavus	44 to Gustavus	0 to Pelican	1.5 to Pelican	.25 to Hoonah	2.25 to Hoonah	12 to Gustavus	.5 to Gustavus	
Health Care Facilities	Community Clinic at Hoonah with limited emergency services	Community Clinic at Gustavus with limited emergency services										Community Clinic at Pelican with limited emergency services		Community Clinic at Hoonah with limited emergency services		Community Clinic at Gustavus with limited emergency services		
Natural Resources Considerations																		
Fish & Wildlife	Spawning salmon, seals, otters, seabird concentrations	Spawning salmon, seals, otters, seabird concentrations			Spawning salmon, seals, otters				Spawning salmon, seals, otters, seabird & waterfowl concentrations			Spawning salmon and herring, seals, otters, waterfowl concentrations		Spawning salmon, seals, otters, seabird concentrations		Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird & waterfowl concentrations	
Threatened & Endangered Species	No listed species present in the immediate area. Stellers sea lion (threatened) feed throughout the area.																	
Sensitive Areas	Not Designated				Area designated as sensitive by SE GRS Workgroup	Not Designated	Area designated as sensitive by SE GRS Workgroup	Not Designated	Area designated as sensitive by SE GRS Workgroup				Not Designated		Area designated as sensitive by SE GRS Workgroup		Not Designated	Area designated high priority by SE GRS Workgroup.
Other Stakeholder Considerations																		
Fisheries	Salmon, Groundfish, Crab																	
Historic Properties	Historic properties are present throughout the area.																	
Mariculture*	None	Nearby in Port Althrop				None												
Subsistence	High level of subsistence use-salmon, intertidal	Lowlevel local subsistence use										High level of subsistence use-salmon, intertidal				Low level of subsistence use		
Tourism/Recreation	High Recreational Use-Sport fishing, wildlife viewing, camping, excursion vessels and cruise ships																	
Waterfront Public Facilities/Parks	Municipality owned small boat harbor and supporting services are present. Tongass National Forest	Glacier Bay National Park-No public waterfront facilities			Tongass National Forest and Glacier Bay National Park-No waterfront facilities			Glacier Bay National Park-Public Small Boat Dock in Bartlett Cove				Municipality owned small boat harbor and supporting services are present. Tongass National Forest		Tongass National Forest-Small Boat facilities available in Hoonah		Tongass National Forest-No public waterfront facilities	Glacier Bay National Park Public Small Boat Dock in Bartlett Cove	
Waterfront Private Facilities	Private docks and cargo services nearby	None present					Active Cannery Facility	Glacier Bay Lodge and Visitors Center				Private docks and cargo services nearby				Active cannery facility	Glacier Bay Lodge and Visitors Center	
Response and Salvage Resource Consideration																		
Ability to Boom Vessel	Weather Dependent											Yes	Weather Dependent	Yes	Weather Dependent	Yes	Weather Dependent	
Geographic Response Strategies	SE06-03	None (2009)			SE06-06,07	None (2009)	SE06-01	None (2009)	SE06-02	SE06-04,06,08	SE06-08,09	SE06-05	None (2009)		SE06-03		None (2009)	SE06-02
Closest Alternative Place of Refuge for same sized vessel	14 to D-06-05	9.5 to D-06-03	9.5 to D-06-02	9.5 to D-06-02	2.5 to D-06-06	2.5 to D-06-05	2.5 to D-06-05	10 to D-06-07	17 to D-06-08	11 to D-06-11	11 to D-06-10	1.5 to L-06-02	1.5 to L-06-01	2 to L-06-04	2 to L-06-03	18 to L-05-03	26 to L-06-03	
Stakeholders for PPOR Zone 06 of the Southeast Alaska Subarea																		
Site ID Number and Vessel Size Classification																		
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT																		
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft																		

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm



The Port of Juneau viewed from the south.



The Port of Juneau viewed from the northwest.



Auke Bay viewed from the southwest.

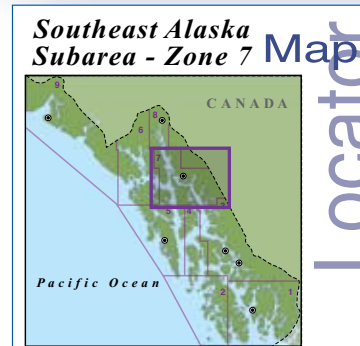
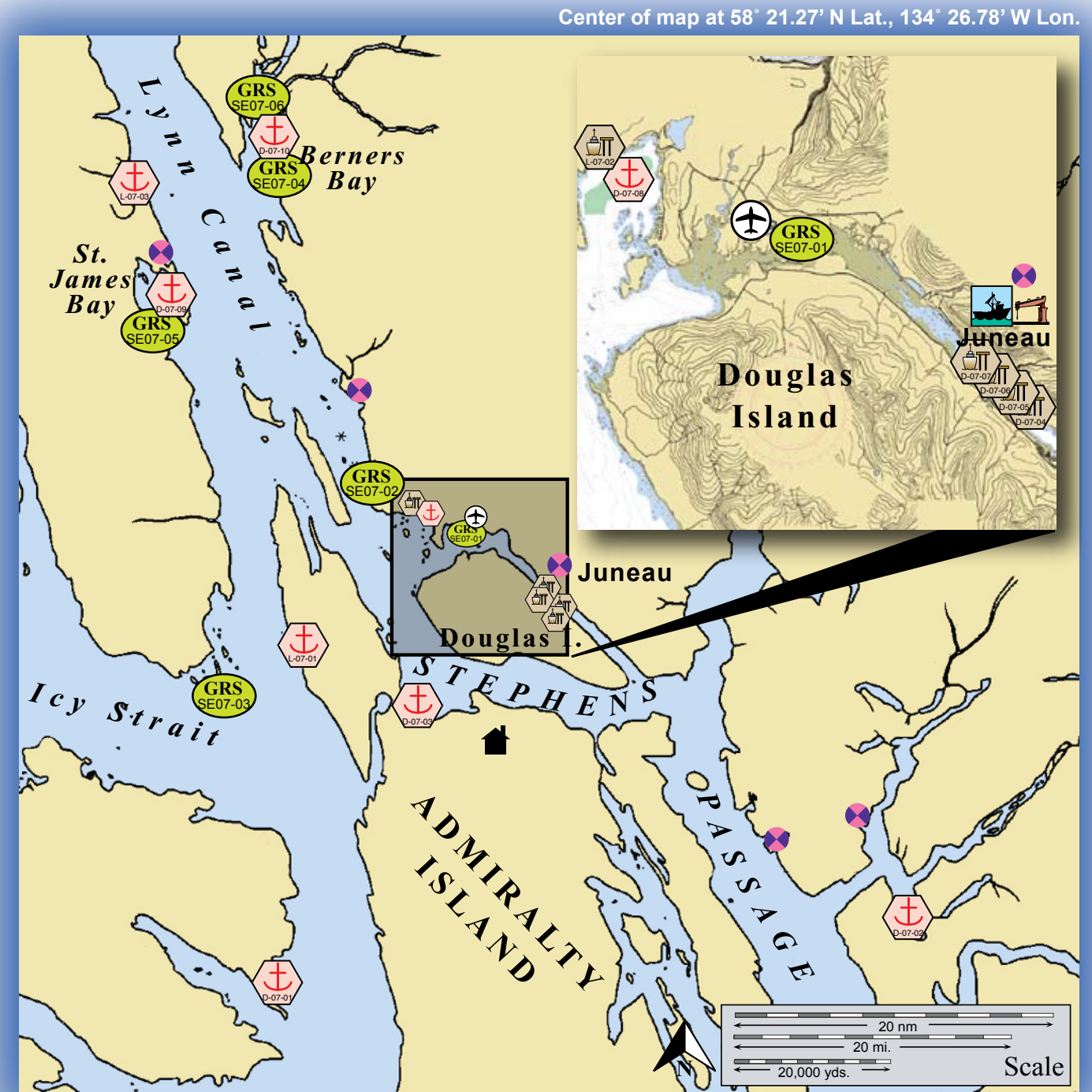


Funter Bay viewed from the southwest.



L-07-09 St. James Bay viewed from the south.

Potential Places of Refuge for Southeast Alaska Subarea



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Private Cabins
	Crane		Public Use Cabins
	Airport		Boat Harbor

Southeast PPOR Map 07

USGS 1:969,756K Quadrangle Map
Reference - Dixon Entrance to Cape
St Elias - 16016_1

Site Considerations for PPOR Zone 07 of the Southeast Alaska Subarea													
	Lyoukeen Cove	Gilbert Bay	Young Bay	AJ Dock	South Franklin Dock	Cruise Ship Terminal/ Steamship Wharf	USCG Dock	Auke Bay	St James Bay	Berners Bay	Funter Bay	Auke Bay Ferry Terminal	William Henry Bay
ID Number	D-07-01	D-07-02	D-07-03	D-07-04	D-07-05	D-07-06	D-07-07	D-07-08	D-07-09	D-07-10	L-07-01	L-07-02	L-07-03
Human Health and Safety													
Community-distance to (nm)	27 to Tenakee Springs	37 to Juneau	26 to Juneau	1 to Juneau	.5 to Juneau	.5 to Juneau	0 to Juneau	8 to Juneau (via road system)	53 to Juneau	58 to Juneau	21 to Hoonah	12 to Juneau (via road system)	59 to Juneau
Health Care Facilities	Community Clinic at Tenakee Springs with limited emergency services	Full hospital services at Juneau									Community Clinic at Hoonah with limited emergency services	Full hospital services at Juneau	
Natural Resources Considerations													
Fish & Wildlife	Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird concentrations	Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird and shorebird concentrations				Spawning salmon, seals, sea lions, otters	Spawning salmon and herring, seals, sea lions, otters, seabird and shorebird concentrations	Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird and shorebird concentrations	Spawning salmon, seals, sea lions, otters	
Threatened & Endangered Species	No listed species present in the immediate area								Stellers sea lions (threatened) haul out nearby		No listed species present in the immediate area		Stellers sea lions (threatened) haul out nearby
Sensitive Areas	No designated areas			MESA-61 nearby. Area designated as sensitive by SE GRS Workgroup					Area designated as sensitive by SE GRS Workgroup.		No designated areas	MESA-61 nearby. Area designated as sensitive by SE GRS Workgroup	
Other Stakeholder Considerations													
Fisheries	Salmon, Groundfish, Crab												
Historic Properties	Historic properties are present throughout the area.												
Mariculture*	None	Salmon Hatchery	None	Salmon Hatchery					None			Salmon Hatchery	None
Subsistence	Low level local subsistence			High level of subsistence use-salmon, intertidal									
Tourism/Recreation	High Recreational Use-Sport fishing, wildlife viewing, excursion vessels, cruise ships, camping, hunting												
Waterfront Public Facilities/Parks	Tongass National Forest -No waterfront facilities		Tongass National Forest - Small recreational cabin in Admiralty Cove	Juneau Port and Harbor. Freight handling services, cranes, boat launch, tidal grid. Tongass National Forest					Tongass National Forest -No waterfront facilities			Juneau port and harbor. Freight handling services, cranes, boat launch, tidal grid. Tongass National Forest.	Tongass National Forest -No waterfront facilities
Waterfront Private Facilities	None present		Small private dock	Numerous private docks and cargo handling capabilities.					None present			Numerous private docks and cargo handling capabilities.	None present
Response and Salvage Resource Consideration													
Ability to Boom Vessel	Weather Dependent			Yes				Weather Dependent				Yes	Weather Dependent
Geographic Response Strategies	None (2009)			SE07-01				SE07-01,02	SE07-05	SE07-04,06	SE07-03	SE07-01,02	None (2009)
Closest Alternative Place of Refuge for same sized vessel	30 to D-06-01	25 to D-03-04	24 to D-07-04	.25 to D-07-05	.25 to D-07-04	.25 to D-07-05	.3 to D-07-06	10 to D-07-03	12 to D-07-10	12 to D-07-09	23 to L-06-02	1 to D-07-08	14 to L-08-01
Site ID Number and Vessel Size Classification								*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php					
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT													
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft													
Stakeholders for PPOR Zone 07 of the Southeast Alaska Subarea													
Organization								Contact					
Alaska Department of Fish & Game								Resource Manager					
Alaska Department of Natural Resources								Resource Manager, State Historic Preservation Officer					
Central Council Tlingit-Haida Tribal								President					
City and Borough of Juneau								Mayor					
Haines Borough								Mayor					
Native Allotments								Dept of the Interior-Regional Environmental Officer					
Sealaska Corporation								President					
Tongass National Forest								Forest Supervisor					
Physical and Operational Characteristics for PPOR Map 07 of the Southeast Alaska Subarea													
	Lyoukeen Cove	Gilbert Bay	Young Bay	AJ Dock	South Franklin Dock	Cruise Ship Terminal/ Steamship Wharf	USCG Dock	Auke Bay	St James Bay	Berners Bay	Funter Bay	Auke Bay Ferry Terminal	William Henry Bay
ID Number	D-07-01	D-07-02	D-07-03	D-07-04	D-07-05	D-07-06	D-07-07	D-07-08	D-07-09	D-07-10	L-07-01	L-07-02	L-07-03
Location (in the general area)	57°53.03'N 134°57.71'W	57°57.22'N 133°42.19'W	58°10.61'N 134°40.80'W	58°17.38'N 134°23.87'W	58°17.46'N 134°23.64'W	58°17.82'N 134°24.24'W	58°17.88'N 134°24.72'W	58°22.19'N 134°40.04'W	58°36.09'N 135°10.09'W	58°46.00'N 134°57.20'W	58°14.34'N 134°54.58'W	58°22.86'N 134°41.10'W	58°43.11'N 135°14.25'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT										Light Draft Vessel - up to 450 feet in length, draft up to 20 feet		
Type of Berthing	Anchorage			Dock				Anchorage				Dock	Anchorage
Contact	N/A			Port Manager 907.586.1282	Operations Director 907.463.3900	Port Director 907.586.0292	Duty Officer 907.463.2248	N/A				907.465.3941	N/A
Navigational Approach	Approach from the E	Approach from the N	Approach from the N-E	Approach using marked channel from the SE				Approach from the SW	Approach from the S	Approach from the SW	Approach from the W	Approach from the SW	Approach from the NE
Minimum Water Depths (MLLW)	24 Fathoms	30 Fathoms	22 Fathoms	34 ft.	30 ft.	27-35 ft.	36 ft.	29 Fathoms	10 Fathoms	27 Fathoms	27 Fathoms	26 ft.	13 Fathoms
Maximum Vessel Draft	40 ft.	40 ft.	40 ft.	30 ft.	30 ft. (Tidal Dependent)	27 ft. (Tidal Dependent)	35 ft.	40 ft.	40 ft.	40 ft.	20 ft.	20 ft.	20 ft.
Swing Room or Dock Face (w/ dolphins)	3600 ft.	2800 ft.	3000 ft.	380 ft. (1100ft.)	960 ft.	1700 ft.	760 ft.	3600 ft.	2400 ft.	3000 ft.	1500 ft.	850 ft.	900 ft.
Bottom Type	Sand	Mud	Mud, Gravel	N/A				Mud	Mud, Pebbles	Mud	Shells, Pebble	N/A	Sand
Nearest Alternative Dock/Piers	73 nm to Port of Juneau	36 nm to D-07-04	25 nm to D-07-04	.25 nm to D-07-05	.25 nm to D-07-04	.25 nm to D-07-05	.3 nm to D-07-06	30 nm to D-07-04	48 nm to D-07-04	38 nm to D-08-01	49 nm to D-07-04	31 nm to D-07-04	30 nm to L-07-02
Nearest Alternative Anchorage	35 nm to D-06-01	25 nm to D-03-04-Holkham Bay	12 nm to D-07-09	22 nm to D-07-03	22.25 nm to D-07-03	22.5 nm to D-07-03	23 nm to D-07-03	10 nm to D-07-03	12 nm to D-07-10	12 nm to D-07-09	23 nm to L-06-02	1 nm to D-07-09	14 nm to L-08-01
Prevailing Winds	SE Winds prevail year round. SE gales may occur at any season, but they are much more frequent in winter than in summer.												
Currents	Minimal currents at anchorage	Significant currents at entrance to the bay	Minimal currents at anchorage	Mid-channel currents to 2 knots. Less current in wharves.				Minimal currents at anchorage				Minimal current at dock face	Minimal currents at anchorage
Tides	N/A	Mean High 14.9 ft. (Higher 15.8) Mean Low 1.5 (Lower -5.5)	Mean High 14.2 ft. (Higher 15.0) Mean Low 1.3 (Lower -6.0)	Mean High 15.3 ft. (Higher 16.3) Mean Low 1.6 (Lower 0.0)				Mean High 15.0 ft. (Higher 15.9) Mean Low 1.5 (Lower 0.0)	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.6(Lower -6.0)		Mean High 14.2 ft. (Higher 15.1) Mean Low 1.6 (Lower -6.0)	Mean High 15.0 ft. (Higher 15.9) Mean Low 1.5 (Lower 0.0)	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.6 (Lower -6.0)
Sea Conditions	Exposed to swells from the E	Exposed to swells from the N	Exposed to swells from the N	Sheltered				Exposed to swells from the S	Exposed to swells from the S	Exposed to swells from the SW	Exposed to swells from the W	Sheltered	Exposed to swell from the NE
Shelter from Severe Storms	Sheltered from S-N storms	Sheltered from W-E storms	Exposed to storms from the NW					Sheltered from W-E storms	Sheltered from W-SE	Sheltered from W-S	Sheltered from NW-SE		Sheltered from E-N
Fog	Frequent throughout the year. Heaviest from June-July.												
Ice	Generally ice free.												

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm



Lutak Dock and Ferry Terminal viewed from the east.



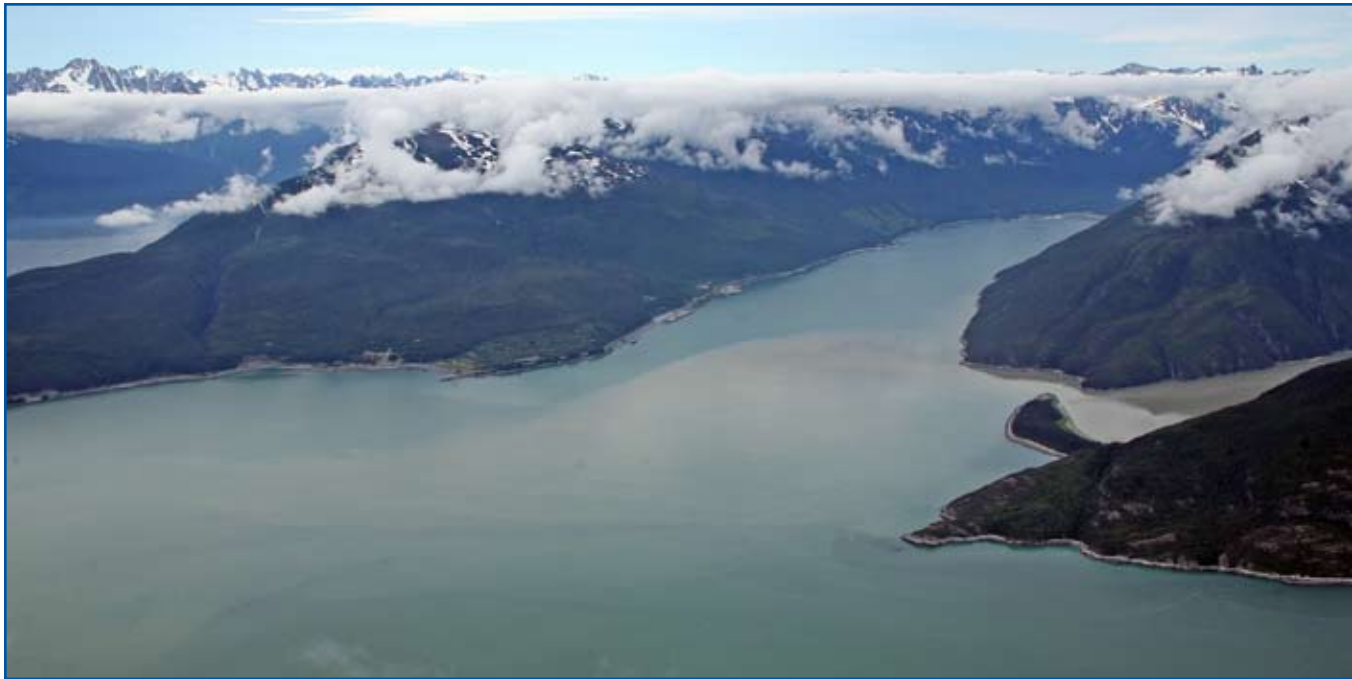
D-08-01 Port Chilkoot Wharf viewed from the east.



Sullivan Island Anchorage viewed from the northwest.

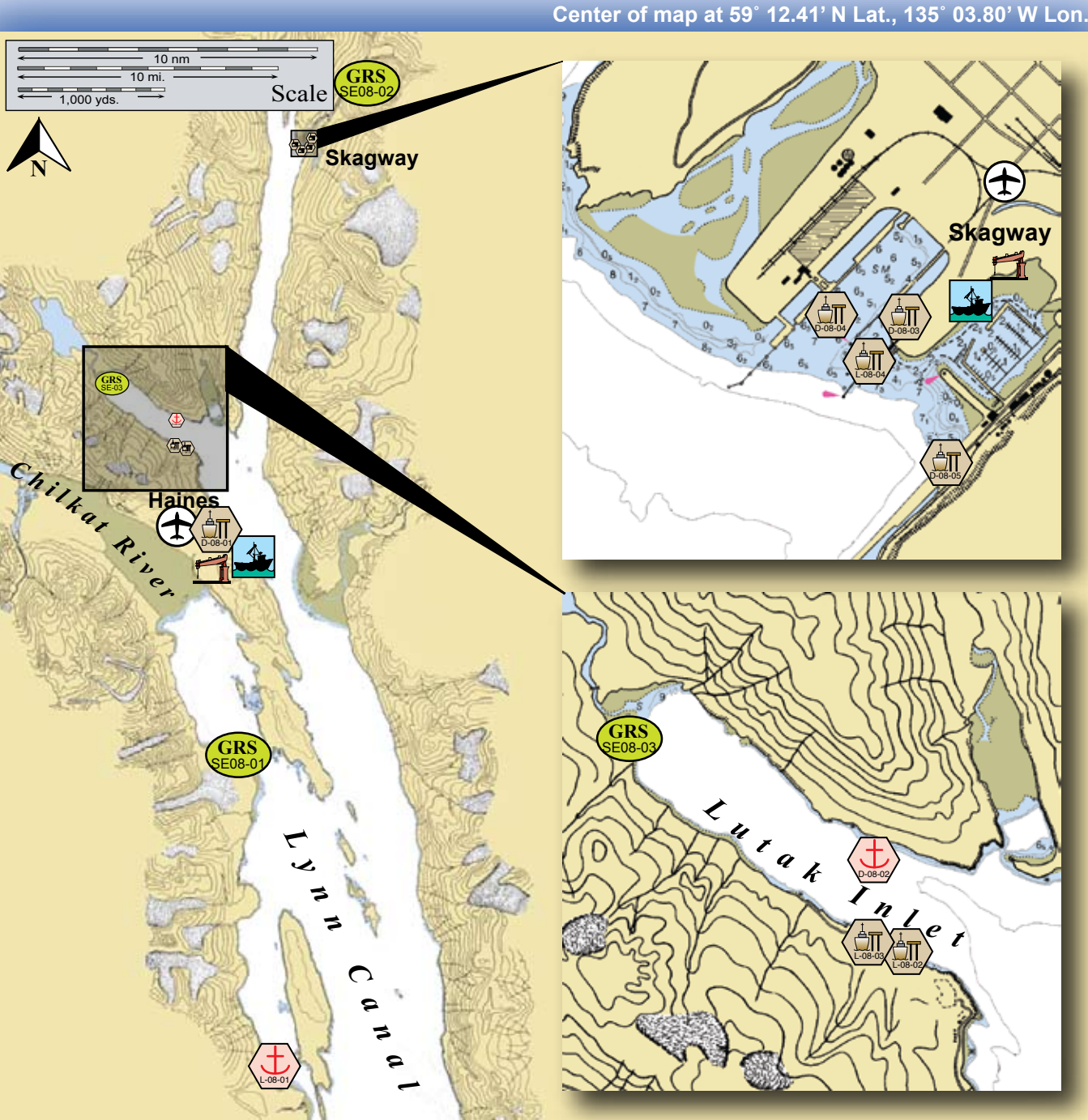


Skagway port facilities viewed from the north.

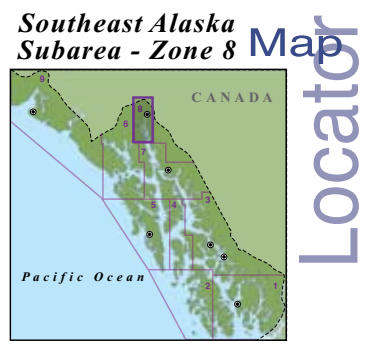


Lutak Inlet viewed from the east.

Potential Places of Refuge for Southeast Alaska Subarea



This is not intended for navigational use. Soundings in fathoms



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Private Cabins
	Crane		Public Use Cabins
	Airport		Boat Harbor

Southeast PPOR Map 08

USGS 1:77,812K Quadrangle
Map Reference - Lynn Canal Point
Sherman to Skagway - 17317_1

Site Considerations for PPOR Zone 08 of the Southeast Alaska Subarea									
	Port Chilkoot Wharf	Lutak Inlet Anchorage	Broadway Dock	Ore Dock	Railroad Dock	Sullivan Island	Haines Ferry Terminal/Lutak Dock	Haines Municipal Dock	Skagway Ferry and Barge Terminal
ID Number	D-08-01	D-08-02	D-08-03	D-08-04	D-08-05	L-08-01	L-08-02	L-08-03	L-08-04
Human Health & Safety									
Community-distance to (nm)	0 to Haines	6 to Haines	0 to Skagway	0 to Skagway	0 to Skagway	21 to Haines	3 to Haines	3 to Haines	0 to Skagway
Health Care Facilities	Community Clinics in Haines and Skagway with emergency services								
Natural Resources Considerations									
Fish & Wildlife	Spawning salmon, seal, otters, eagle nesting								
Threatened & Endangered Species	No listed species present in the immediate area. Stellers sea lion (threatened) feed throughout the area.								
Sensitive Areas	MESA-60 nearby. Area designated as sensitive by SE GRS Workgroup.		Area designated as sensitive by SE GRS Workgroup.			No designation	MESA-60 nearby. Area designated as sensitive by SE GRS Workgroup.		Area designated as sensitive by SE GRS Workgroup.
Other Stakeholder Considerations									
Fisheries	Salmon, Groundfish, Crab								
Historic Properties	Historic properties are present throughout the area.								
Mariculture*	None	Salmon Hatchery	None				Salmon Hatchery		None
Subsistence	No	Low level local subsistence	No			Low level local subsistence			No
Tourism/Recreation	High Recreational Use-Sport fishing, wildlife viewing, camping, excursion vessels and cruise ships								
Waterfront Public Facilities/Parks	Municipality owned small boat harbor and supporting services are present in Haines. Tongass National Forest.		Municipality owned small boat harbor and supporting services are present in Skagway. Tongass National Forest .			Tongass National Forest -No waterfront facilities	Municipality owned small boat harbor and supporting services are present in Haines. Tongass National Forest.		Municipality owned small boat harbor and supporting services are present in Skagway. Tongass National Forest.
Waterfront Private Facilities	Numerous small docks and piers in the Haines area. Cranes and freight handling capabilities present.		Numerous small docks and piers in the Skagway area. Cranes and freight handling capabilities present.			None Present	Numerous small docks and piers in the Haines area. Cranes and freight handling capabilities present.		Numerous small docks and piers in the Skagway area. Cranes and freight handling capabilities present.
Response and Salvage Resource Consideration									
Ability to Boom Vessel	Yes	Weather Dependent	Yes			Weather Dependent	Yes		
Geographic Response Strategies	None (2009)	SE08-03	SE08-02			None (2009)	SE08-03		SE08-02
Closest Alternative Place of Refuge for same sized vessel	3.5 to D-08-02	3.5 to D-08-01	.1 to D-08-04	.1 to D-08-03	.1 to D-08-04	26 to L-08-03	.1 to L-08-03	.1 to L-08-02	.1 to D-08-03

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: <http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php>

Stakeholders for PPOR Zone 08 of the Southeast Alaska Subarea							
Organization	Contact	Organization	Contact	Organization	Contact	Organization	Contact
Alaska Department of Fish & Game	Resource Manager	Chilkoot Indian Association (IRA)	President	Municipality of Skagway	Mayor	Skaqua Traditional Council	Tribal Chair
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer	City of Haines	Mayor	Native Allotments	Dept of the Interior-Regional Environmental Officer	Tongass National Forest	Forest Supervisor
Central Council Tlingit-Haida Tribal	President	Haines Borough	Mayor	Sealaska Corporation	President		

Physical and Operational Characteristics for PPOR Map 08 of the Southeast Alaska Subarea									
	Port Chilkoot Wharf	Lutak Inlet Anchorage	Broadway Dock	Ore Dock	Railroad Dock	Sullivan Island	Haines Ferry Terminal/Lutak Dock	Haines Municipal Dock	Skagway Ferry and Barge Terminal
ID Number	D-08-01	D-08-02	D-08-03	D-08-04	D-08-05	L-08-01	L-08-02	L-08-03	L-08-04
Location <i>(In the general area)</i>	59°14.04'N 135°26.34'W	59°17.70'N 135°28.50'W	59°27.02'N 135°19.46'W	59°27.01'N 135°19.62'W	59°26.77'N 135°19.47'W	58°55.86'N 135°21.50'W	59°16.94'N 135°27.83'W	59°17.19'N 135°28.72'W	59°26.94'N 135°19.56'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT					Light Draft Vessel - up to 450 feet in length, draft up to 20 feet			
Type of Berthing	Dock	Anchorage	Dock			Anchorage	Dock		
Contact	Harbormaster 907.766.2448	N/A	Operations Manager 907.983.2214			N/A	Terminal Operations 907.766.2111	Harbormaster 907.766.2448	Harbormaster 907.983.2628
Navigational Approach	Approach from the E	Approach from the SE	Approach from the SW			Approach from the SE or NW	Approach from the S		Approach from the SW
Minimum Water Depths <i>(MLLW)</i>	40 Feet	41 Fathoms	35 Feet	45-90 Feet	24-43 Feet	19 Fathoms	23 Feet	12-23 Feet	25 Feet
Maximum Vessel Draft	35 ft.	40 ft.	30 ft.	40 ft.	40 ft.	20 ft.	20 ft.	20 ft.	20 ft.
Swing Room or Dock Face <i>(w/ dolphins)</i>	915 ft.	2400 ft.	800 ft.	1000 ft.	1850 ft.	2000 ft.	640 ft.	750 ft.	385 ft.
Bottom Type	N/A	Mud	N/A			Mud	N/A		
Nearest Alternative Dock/Piers	13.5 nm to D-08-03	5 nm to D-08-01	.1 nm to D-08-04	.1 nm to D-08-03	.15 nm to D-08-03	23 nm to L-08-02	.25 nm to L-08-03	.25 nm to L-08-02	.1 nm to D-08-03
Nearest Alternative Anchorage	5 nm to D-08-02	44 nm to D-07-08	12.5 nm to D-08-02	12.5 nm to D-08-02	12.5 nm to D-08-02	16 nm to D-08-02	2 nm to D-08-02	2 nm to D-08-02	14.5 nm to D-08-02
Prevailing Winds	SE winds prevail year round. SE gales may occur at any season, but they are much more frequent in winter than in summer. High shores funnel and intensify the SE winds.								
Currents	Currents in Lynn Canal have a velocity of 0.3 to 1 knot in the S part, diminishing in velocity toward the head.								
Tides	Mean High 15.8 ft. (Higher 16.8) Mean Low 0.0 (Lower -6.0)		Mean High 15.7 ft. (Higher 16.7) Mean Low 1.6 (Lower 0.0)			Mean High 15.8 ft. (Higher 16.8) Mean Low 0.0 (Lower -6.0)			Mean High 15.7 ft. (Higher 16.7) Mean Low 1.6 (Lower 0.0)
Sea Conditions	Sheltered					Exposed to swells from the N	Sheltered		
Shelter from Severe Storms	Sheltered from severe storms					Sheltered from NE-NW storms	Sheltered from severe storms		
Fog	Frequent throughout the year. Heaviest from June-July.								
Ice	Generally ice free.								

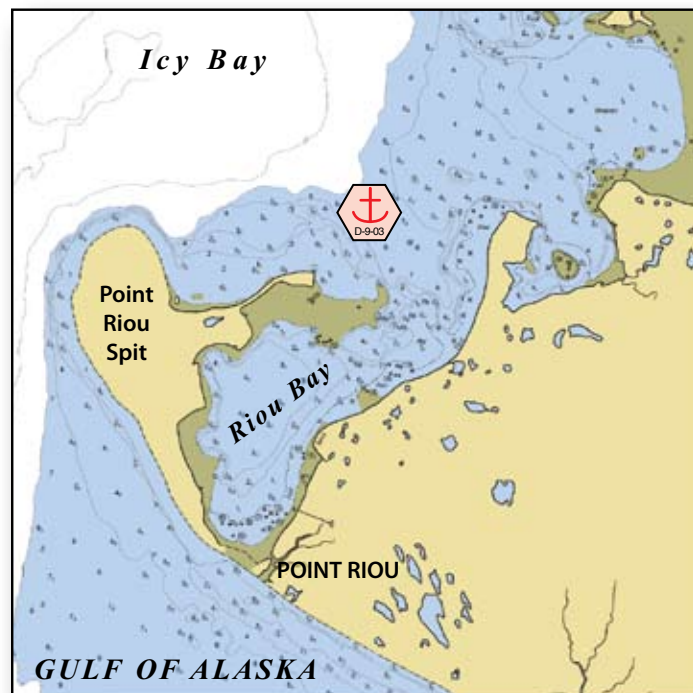
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm



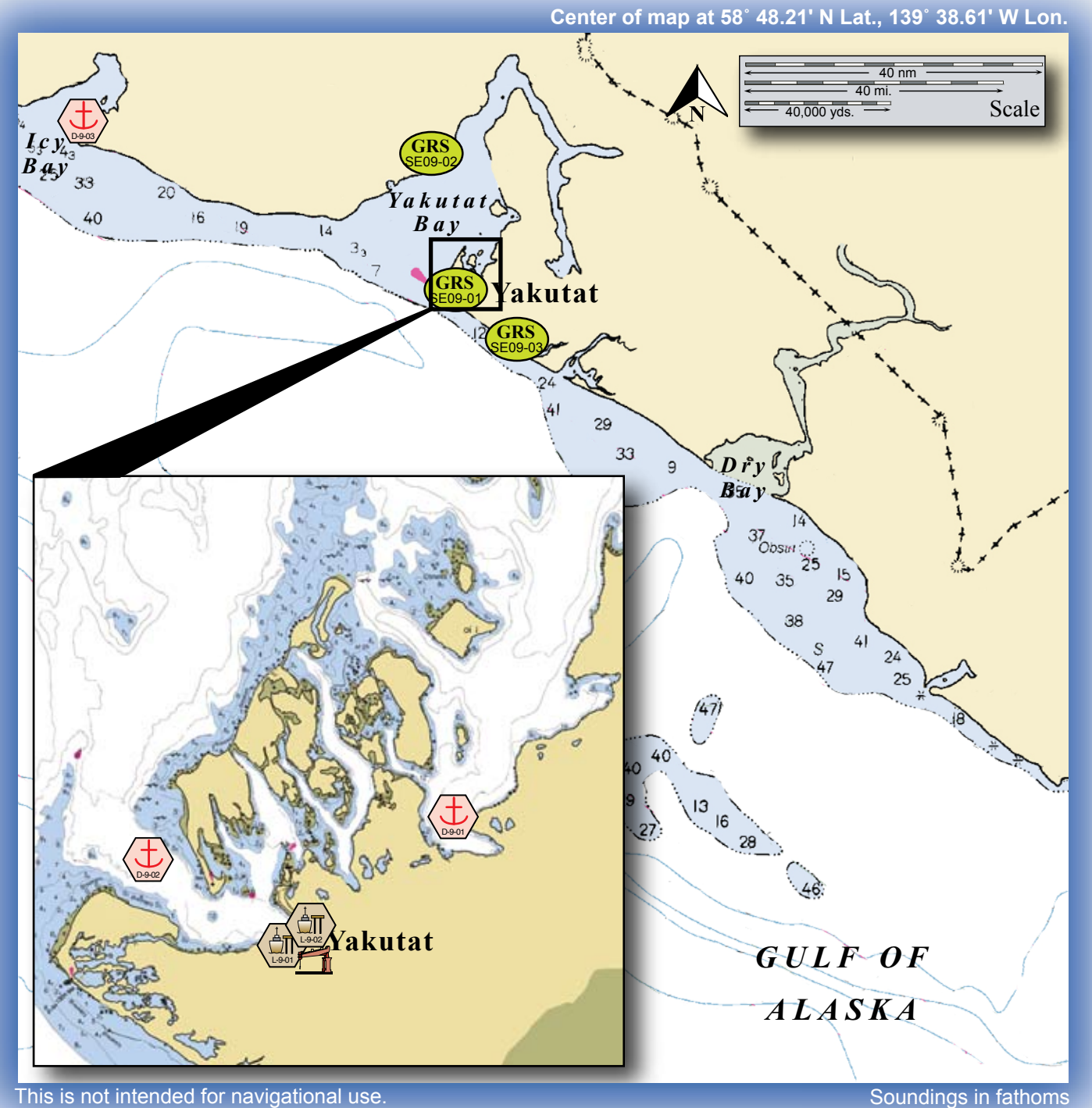
Monti Bay viewed from the east.



Johnstone Passage and Sea Otter Bay viewed from the south.

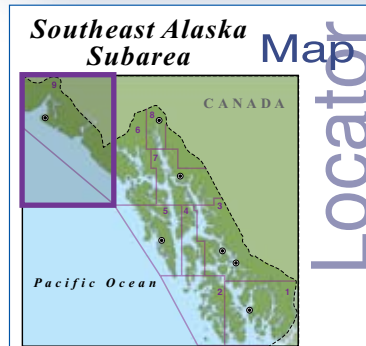


Potential Places of Refuge for Southeast Alaska Subarea



This is not intended for navigational use.

Soundings in fathoms



	Anchorage		Existing GRS
	Mooring		Fish Hatchery
	Dock/pier		Aquatic Farms
	Crane		Private Cabins
	Airport		Public Use Cabins
			Boat Harbor

Southeast PPOR Map 09

USGS 1:22,100,000K Quadrangle Map Reference - Southeast Alaska REG30

Site Considerations for PPOR Zone 09 of the Southeast Alaska Subarea						
	Broken Oar Anchorage		Monti Bay Anchorage	Point Riou Anchorage	Yakutat City Dock	Ocean Cape Dock
ID Number	D-09-01	D-09-02	D-09-03	L-09-01	L-09-02	
Human Health & Safety						
Community-distance to (nm)	0.5 to Yakutat		56 to Yakutat	0 to Yakutat		
Health Care Facilities	Clinic Services in Yakutat					
Natural Resources Considerations						
Fish & Wildlife	Spawning salmon, seals, waterfowl, seabirds					
Threatened & Endangered Species	None (2010)					
Sensitive Areas	Adjacent area designated sensitive by SE GRS Workgroup		Not Designated	Adjacent area designated sensitive by SE GRS Workgroup		
Other Stakeholder Considerations						
Fisheries	Salmon, Groundfish, Crab					
Historic Properties	Historic Properties are present throughout the area.					
Mariculture*	None					
Subsistence	High local subsistence use		Low level subsistence use	High local subsistence use		
Tourism/Recreation	High level recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting			High level recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting		
Waterfront Public Facilities/Parks	Municipality owned small boat harbor and supporting services are present in Yakutat.		Wrangell-St. Elias National Park- No services available	Municipality owned small boat harbor and supporting services are present in Yakutat.		
Waterfront Private Facilities	Marine services docks and piers in Yakutat		None	Marine services docks and piers in Yakutat		
Response and Salvage Resource Consideration						
Ability to Boom Vessel	Yes	Weather Dependent		Yes		
Geographic Response Strategies	SE09-01		None (2010)	SE09-01		
Closest Alternative PPOR for a same sized vessel	12 nm to D-09-02	12 nm to D-09-01	56 nm to D-09-02	0.2 nm to L-09-02	0.2 nm to L-09-02	

Physical and Operational Characteristics for PPOR Map 09 of the Southeast Alaska Subarea					
	Broken Oar Anchorage	Monti Bay Anchorage	Point Riou Anchorage	Yakutat City Dock	Ocean Cape Dock
ID Number	D-09-01	D-09-02	D-09-03	L-09-01	L-09-02
Location-(In the general area of)	59°34.38'N 139°39.90'W	59°33.66'N 139°48.48'W	59°55.62'N 141°27.00'W	59°32.70'N 139°44.34'W	59°32.88'N 139°44.04'W
Maximum Vessel Size	Deep Draft Vessels- lengths up to 1000 feet, 20-40 feet of draft, greater than 10,000 GT			Light Draft Vessel - up to 450 feet in length, draft up to 20 feet	
Type of Berthing	Anchorage			Dock	
Contact	Harbormaster 907.784.3491		N/A	Harbormaster 907.784.3491	
Navigational Approach	N from Yakutat Bay	W from Yakutat Bay	Approach from the S	W via Monti Bay	
Minimum Water Depths (MLLW)	49 fathoms	26 fathoms	10 fathoms	35 ft.	53 ft.
Maximum Vessel Draft	40 ft. +			20 ft. +	
Swing Room or Dock Face (w/ dolphins)	1500 ft.	3000 ft.	2400 ft.	112 ft.	400 ft.
Bottom Type	Mud, Shells	Sand	Mud	N/A	
Nearest Alternative Dock/Piers	Nearest Deep Draft Docks are in Prince William Sound			0.2 nm to L-09-02	0.2 nm to L-09-01
Nearest Alternative Anchorage	12 nm to D-09-02	12 nm to D-09-01	56 nm to D-09-02	2.5 nm to D-09-01	2.6 nm to D-09-01
Prevailing Winds	Easterlies and southeasterlies are frequent year round.				
Currents	Complex currents exist in Yakutat Bay. Minimal currents at the anchorages.		Minimal currents at the anchorages.	Complex currents exist in Yakutat Bay. Minimal currents at the docks.	
Tides	Mean High 9.2 ft. (Higher 10.1) Mean Low 1.4 (Lower -4.0)		Mean High 9.0 ft. (Higher 9.9) Mean Low 1.4 (Lower -4.5)	Mean High 9.2 ft. (Higher 10.1) Mean Low 1.4 (Lower -4.0)	
Sea Conditions	Sheltered	Exposed to swells from the W	Exposed to swells from the N	Sheltered	
Shelter from Severe Storms		Sheltered from N-S storms	Sheltered from E-W storms		
Fog	Frequent throughout the year. Heaviest from June-July.				
Ice	Ice can form in bays from November until May if colder conditions prevail.		Use extreme caution, ice from glaciers can cause hazards to navigation.	Ice can form in bays from November until May if colder conditions prevail.	

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_se.htm

Site ID Number and Vessel Size Classification	
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT	
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft	
Stakeholders for PPOR Zone 09 of the Southeast Alaska Subarea	
Organization	Contact
Alaska Department of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer
Chugach Alaska Corporation	President
City and Borough Yakutat	Manager
Native Allotments	Dept of the Interior-Regional Environmental Officer
Sealaska Corporation	President
Tongass National Forest	Forest Supervisor
Wrangell-St. Elias National Park	Dept of the Interior-Regional Environmental Officer
Yak-Tat Kwaan, Incorporated	President
Yakutat Tlingit Tribe	President

*For current mariculture operations, ownership information and locations, consult the ADF&G mariculture website: <http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.php>