Potential Places of Refuge in Alaska

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PPOR Defined:

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Temporary location to stabilize a vessel, protect life, remove hazards, protect public health and resources.

- There are no pre-designated places of refuge
- A place of refuge is selected on an incident specific basis
- Potential sites are identified and relevant info is collected

T/V Prestige – Denied refuge…2002

Background:

After the T/V Castrol incident & the sinking of the Erika and Prestige, in 2003 the International Maritime Organization adopted resolutions regarding Places of Refuge guidelines.

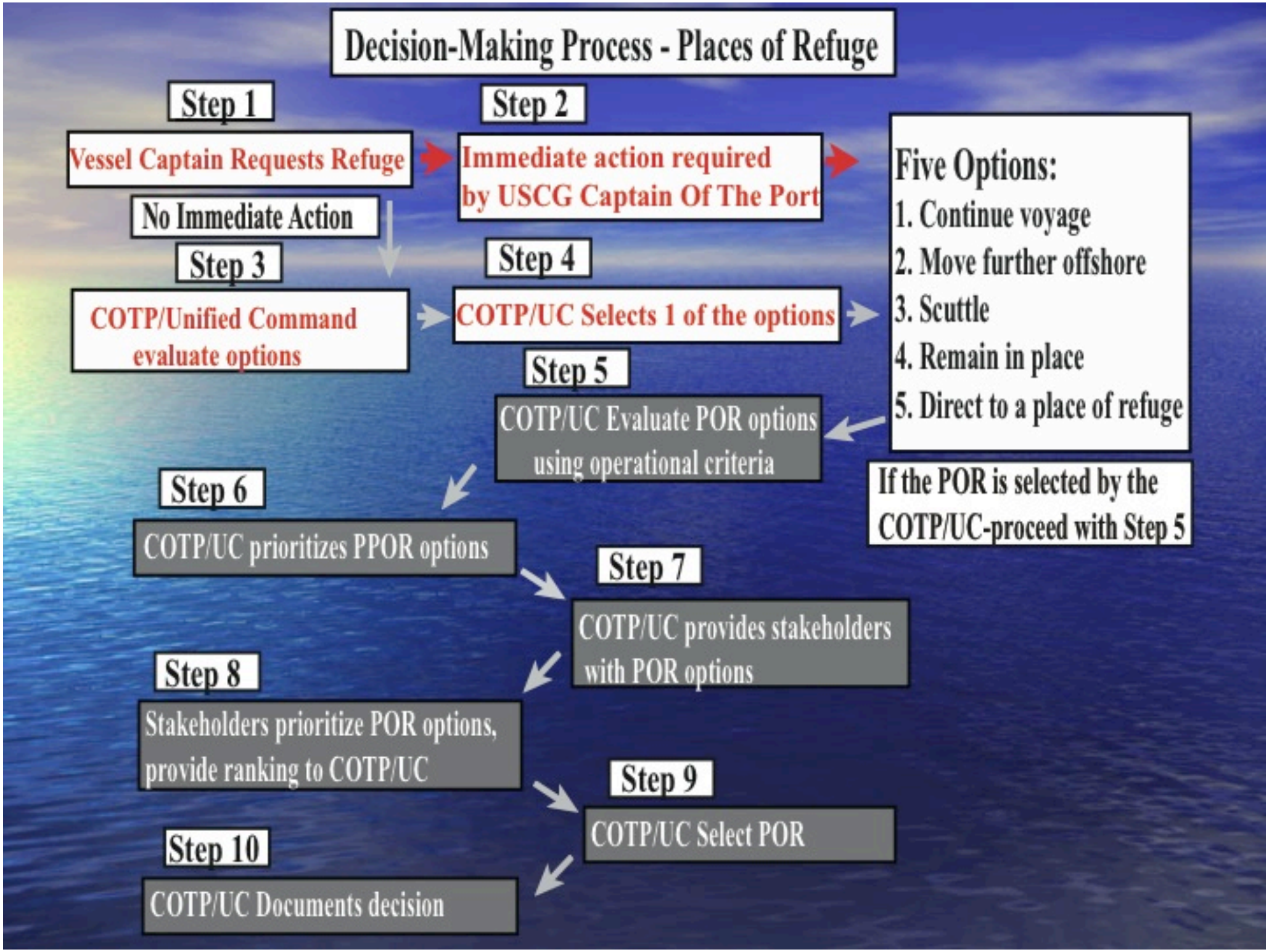
In 2004 the Alaska Regional Response Team developed guidelines for the PPOR decision making process in Alaska.

PPOR Questions-

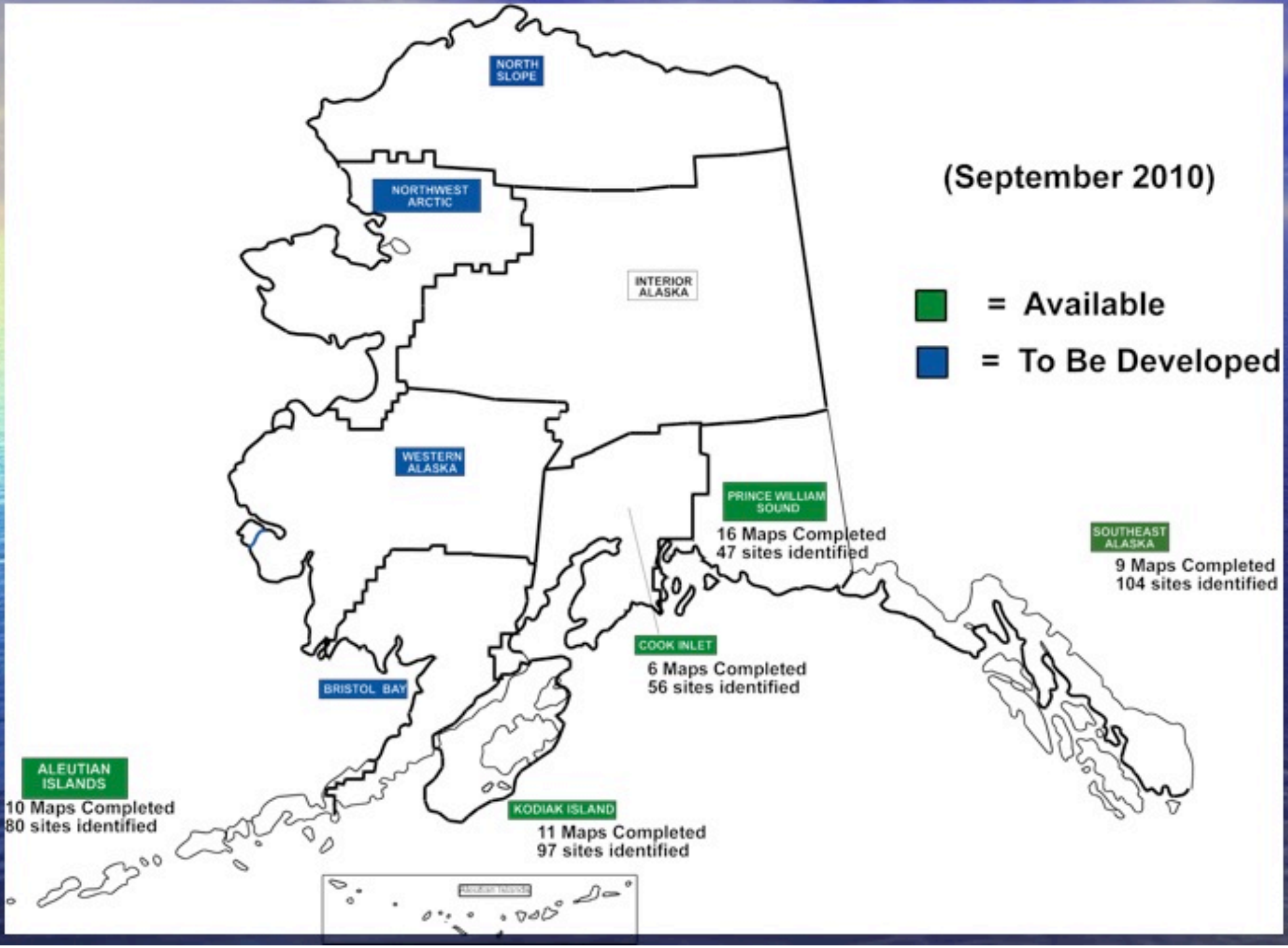
- What to do?
- Where to go?
- How to do it?

Decision Making Process

- Uses existing ICS structure to make decisions
- Captain of the Port has ultimate authority to make decision
- Establishes a standardized and predictable process to evaluate risks of a ship in distress
- Provides checklists to evaluate risks


Decision-Making Process - Places of Refuge
Step 1
Vessel Captain Requests Refuge
Step 2
Immediate action required by USCG Captain Of The Port
Five Options:
1. Continue voyage
2. Move further offshore
3. Scuttle
4. Remain in place
5. Direct to a place of refuge
No Immediate Action
Step 3
COTP/Unified Command evaluate options
Step 4
COTP/UC Selects 1 of the options
Step 5
COTP/UC Evaluate POR options using operational criteria
If the POR is selected by the COTP/UC-proceed with Step 5
Step 6
COTP/UC prioritizes PPOR options
Step 7
COTP/UC provides stakeholders with POR options
Step 8
Stakeholders prioritize POR options, provide ranking to COTP/UC
Step 9
COTP/UC Select POR
Step 10
COTP/UC Documents decision

Current Status of PPORs in AK



Potential Places of Refuge Project- Pre-incident Planning

- Part of pre-established decision making process
- Identify information needed to assist decision makers during an incident
- Discuss and gather information regarding use-conflicts outside of crisis situation
- Obtain local knowledge to understand capabilities, limitation, impacts
- Identify potential sites acceptable/least offensive to all

Workgroup Process- Potential Places of Refuge

- Stakeholders
- Governments
- Resource Agencies
- Spill Response Organizations
- Mariners
- Landowners
- General Public

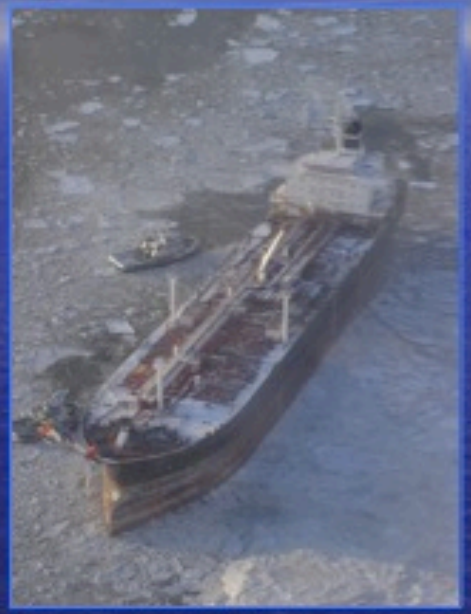


Photo Credit-Unified Command

The Workgroup identifies and confirms information regarding :

- Establish an inventory of possible places of refuge for stricken vessels
- Environmental & economic risks
- Port requirements
- Available response & repair resources
- Water depths, tides, currents, seasonal conditions
- Typical vessels in the subarea that may pose a risk

The Plan-

Wide Bay and Broad Bay viewed from the north.

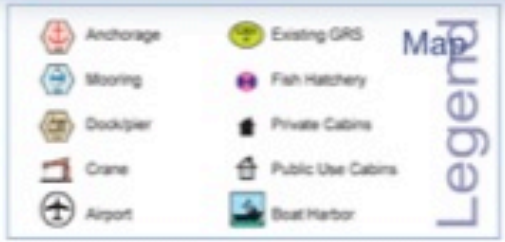
Iliuliuk Harbor and Captains Bay viewed from the north.

Captains Bay viewed from the south.

Potential Places of Refuge *for Aleutians Subarea*

Stakeholders for PPOR Map 03 of the Aleutian Subarea

Year-2007	Contact
Aleut Corporation	President
Aleutians East Borough	Mayor
Alaska Dept of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Natural Resource Manager
Alaska Maritime National Wildlife Refuge	Dept of the Interior- Regional Environmental Officer
Aleut Marine Mammal Commission	Director
City of Unalaska	Mayor
Qunalashka Corporation	CEO
Native Allotments	Dept of the Interior- Regional Environmental Officer



Aleutian PPOR

Map 03

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Site Information for Aleutian PPOR Map-03

Site Considerations for PPOR Map 03 of the Aleutian Subarea

	Wide Bay	Broad Bay	Captains Bay	Captains Bay Moorings	Hog Island Anchorage	Captains Bay North Pacific Fuel	Westward Seafood Dock	OSI Facility Dock
ID Number	**06-O**	**07-O**	**40-LII**	**41-LII**	**45-LII**	**46-LII**	**65-LI**	**66-LI**
Human Health & Safety								
Communities – distances-nm	Unalaska- 4.5	Unalaska- 4	Unalaska- 1	Unalaska- 1	Unalaska-0.5	Unalaska- 0.0	Unalaska-0.0	Unalaska-0.0
Natural Resource Considerations								
Fish & Wildlife	Spawning salmon, seals, sea otters waterfowl concentrations, seabird and eagle nesting, shorebird concentration							
Threatened & Endangered Species	Steller's Eider, sea otters and short-tailed albatross are present							
Sensitive Areas	Entire area designated as a Most Environmentally Sensitive Area (MESA 28b-ADF&G)							
Invasive Species-Rats	Rats are present in this area							
Other Stakeholder Considerations								
Fisheries	Groundfish, herring, salmon, crab							
Historic Properties	If suspected cultural artifacts are encountered, notify the State Historic Preservation Office and the land managers. Review adjacent GRS (if applicable) for information on historic properties.							
Mariculture	None							
Subsistence	Salmon, marine mammals, waterfowl, crab, intertidal							
Tourism/Recreation	High recreational use area- sport fishing, kayaking, excursion boats, wildlife viewing							
Waterfront Public Facilities/Parks	Alaska Maritime National Wildlife Refuge-no facilities immediately available		Alaska Maritime National Wildlife Refuge, Small Boat Harbor nearby		Alaska Maritime National Wildlife Refuge	Alaska Maritime National Wildlife Refuge, Small Boat Harbor nearby		
Waterfront Private Facilities	None		Cannery facilities nearby		None	Cranes		
Response and Salvage Resource Considerations								
Ability to Boom Vessel	Weather dependent				No	Yes	Weather dependent	
Emergency Tow System	An emergency tow system is available to assist disabled vessels in Unalaska and Aleutian Subarea. Contact the USCG MSD-Unalaska-907.581.3466 and the Unalaska Harbor Master 907.581.1254 for additional information.							
Geographic Response Strategies	AEB-13-Broad/Wide Bay; AEB-13 Nateekin Bay		AEB-15 Head of Captains Bay, AEB-16 Obernoi Pt. Stream		AEB-18 Hog Island	AEB-15 Head of Captains Bay, AEB-16 Obernoi Pt. Stream		
Closest Alternative Places of Refuge (same sized vessel)	1.5 nm. to 07-O Broad Bay	1.5 nm. to 06-O Wide Bay	5 nm. to 41-LII Capt. Bay Moorings	5 nm. to 40-LII Capt. Bay	2.5 nm to 46-LII Captains Bay N. Pacific Fuel	5 nm to 41-LII Capt. Bay Moorings	1.5 to 66-LI OSI Facility Dock	1.5 to 65-LI Westward Seafood Dock

Site ID Number and Vessel Class Classification

O = A deep draft vessel that exceeds 20,000 Gross Tons, has drafts of 25-60 ft. and ranges from 450 ft.-1000 ft. LOA, typical of Tankers/ Cruiseships

LII= A light draft vessel of 10,000 to 19,999 Gross Tons, has drafts up to 25 ft., LOA up to 450 ft., typical of ferrys/Trampers

LI= A light draft vessel of 300 to 9,999 Gross Tons, has drafts up to 25 ft., LOA up to 450 ft., typical of Ferrys/ Trampers

S = A shallow draft vessel less than 300 Gross Tons, has a draft less than 15 ft., LOA less than 200 ft., typical of Excursion/Fishing vessels

Physical and Operational Characteristics for PPOR Map 03 of the Aleutian Subarea

	Wide Bay	Broad Bay	Captains Bay	Captains Bay Moorings	Hog Island Anchorage	Captains Bay North Pacific Fuel	Westward Seafood Dock	OSI Facility Dock
ID Number	**06-O**	**07-O**	**40-LII**	**41-LII**	**45-LII**	**46-LII**	**65-LI**	**66-LI**
Location	53°53.00'N 166°31.86'W	53°54.12'N 166°31.76'W	53°56.94'N 166°36.69'W	53°50.89'N 166°35.24'W	53°54.58'N 166°30.78'W	53°51.09'N 166°34.40'W	53°51.49'N 166°33.22'W	53°52.81'N 166°31.31'W
Maximum Vessel Size	Deep draft, greater than 20,000 Gross Tons		Light draft-II, 10,000 to 19,999 Gross Tons				Light draft-I, 300 to 9,999 Gross Tons	
Type of Berthing	Mooring	Anchorage	Anchorage	3 Mooring Buoys	Anchorage	Dock		
Contact	Icicle Seafoods-206.282.0988	N/A	Harbormaster-907.581.1254	Northland Services 907.581.8077	Harbormaster-907.581.1254	Harbormaster-907.581.1254	Facility Manager 907.581.1660 Harbormaster-907.497.2237	Manager-907.581.1827 Harbormaster-907.497.2237
Navigational Approach	Approach from SE	Approach from NE,E	Approach from the N		Approach from the N	Approach from the NW	Approach from the W	Approach from the N
Minimum Water Depth	18 Fathoms in swing area	38 Fathoms in swing area	14 Fathoms on approach	45 Fathoms in swing area	10 Fathoms in swing area	36 Feet at the dock face	24 Feet at the dock face	27 Feet at the dock face
Maximum Water Depth	30 Fathoms in swing area	16 Fathoms in swing area	45 Fathoms in swing area	14 Fathoms on approach	19 Fathoms in swing area	42 Feet at the dock face	24 Feet at the dock face	27 Feet at the dock face
Maximum Vessel Draft	60 ft.		40 ft.		30 ft.	36 ft.	24 ft.	26 ft.
Swing Room/Dock Face	900 ft.	1800 ft.	3000	3000	1200 ft.	510 ft.	800 ft.	450 ft.
Bottom Type	Sand	Mud	Mud	N/A	Mud	N/A		
Docks/Piers	Nearest Alt. Dock 06-O Dutch Harbor APL Dock		Nearest Alt. Dock 46-LII North Pacific Fuel Dock	Nearest Alt. Dock 46-LII North Pacific Fuel Dock	Nearest Alt. Dock 45-LII Western Pioneer	Nearest Alt. Dock 65-LI Westward Seafood	Nearest Alt. Dock 66-LI OSI Reef Dock	Nearest Alt. Dock 65-LI Westward Seafood
Moorings	Nearest Mooring-Captains Bay41-LII	Nearest Mooring-Wide Bay- 06-O	Nearest Mooring-Captains Bay41-LII	Nearest Mooring-Iliuluk Bay- 62-LI	Nearest Mooring-Captains Bay41-LII			
Anchorages	Nearest Alt. Anchorage-07-O Broad Bay	Nearest Alt. Anchorage-06-O Wide Bay	Nearest Anchorage- 45-LII Hog Island	Nearest Anchorage- 45-LII Hog Island	Nearest Alt. Anchorage-07-O Broad Bay	Nearest Alt Anchorage- 45-LII Hog Island	Nearest Alt. Anchorage-61-LI Iliuluk Bay	Nearest Alt. Anchorage-61-LI Iliuluk Bay
Prevailing Winds	Summer-southwest through northwest winds are common. Winter- winds occur from all directions.							
Currents	Local currents are totally influenced. All passes in the subarea have significant currents.							
Tides	Mean High Water-3.4 (Higher- 3.7) ; Mean Low Water- 1.2 (Lower- -2.5)							
Sea Conditions	Exposed to seas from the E-S		Sheltered from extreme sea states		Exposed to seas from the NE-NW	Sheltered from extreme sea states	Sheltered from extreme sea states	
Shelter from Severe Storms	Sheltered SW-N		Sheltered from all but extreme storms		Sheltered E-W	Sheltered from all but extreme storms	Sheltered from all but extreme storms	
Fog	Fog can occur during all seasons							
Sea ice	Sea ice unlikely							

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Aleutian Subarea Contingency Plan: http://www.akrrt.org/AUPlan/aitoc.shtml

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PPOR in Subarea Plan

Southeast Alaska SUBAREA CONTINGENCY PLAN
POTENTIAL PLACES OF REFUGE SECTION

PART ONE INTRODUCTION.....
- Purpose and Scope .....
- How the Document was Developed.....
- How to Use the PPOR Section .....
- Who to Contact for Input .....

PART TWO PPOR MAPS .....
- Index of PPOR Maps .....
- PPOR Maps.....

PART THREE REFERENCES.....
- TABLES AND FIGURES
  - TABLES
    - H-1: Key to the Site Assessment Matrix.... .....
    - H-2: Site Assessment Matrix .....
  - FIGURES
    - H-1: Index of Southeast Alaska PPOR Maps.....
    - SEA-1 PPOR
    - SEB-2 PPOR

Goals & Objectives-Today

- Public information
- Establish contacts with local government, mariners and communities to develop a work group.
- Discuss the process to develop PPORs in this subarea.
- Establish a timeline for completion

Conclusions

- Decision-making guidelines and pre-incident planning greatly aid the Unified Command during an actual event
- Public involvement at the planning stage is critical to success
- Planning may reduce the risks and severity of future spills

Questions/Discussion-

Pre-planning for this

Helps prevent this

Quyanaq