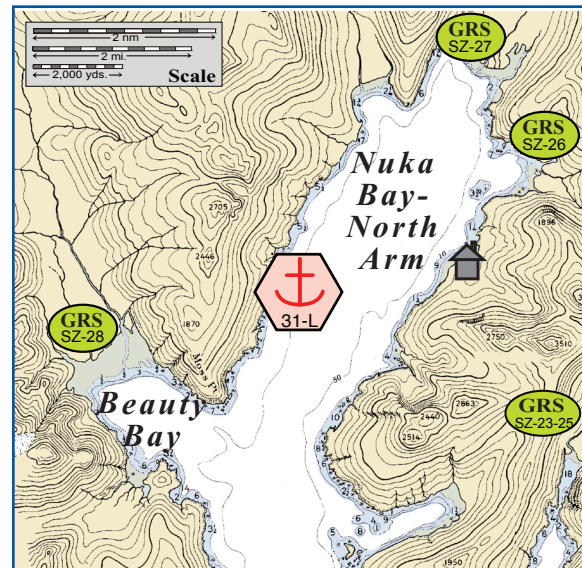
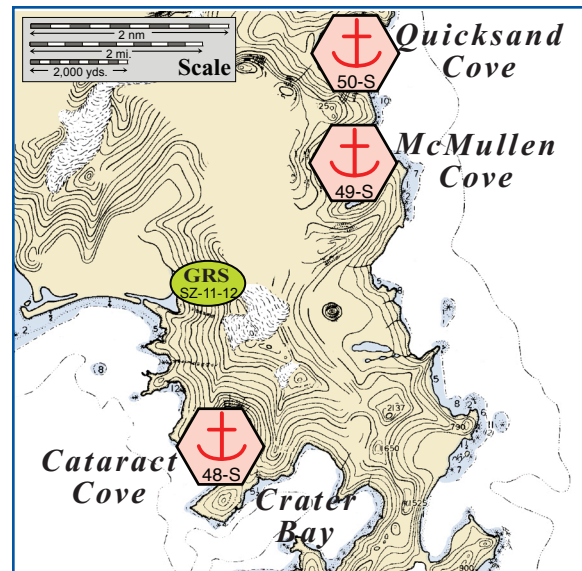


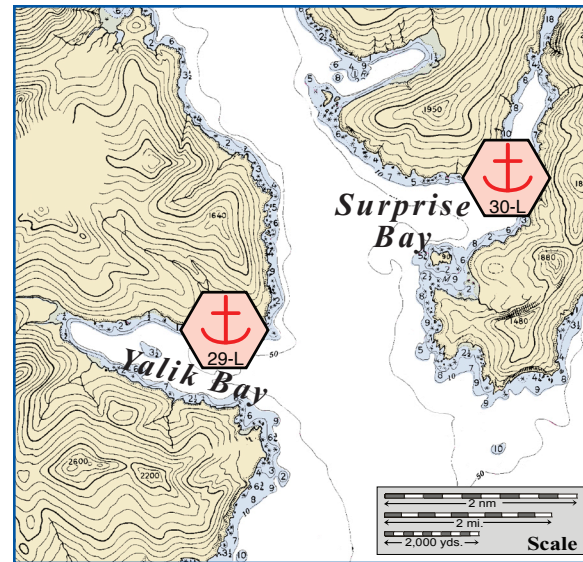
Takoma Cove.



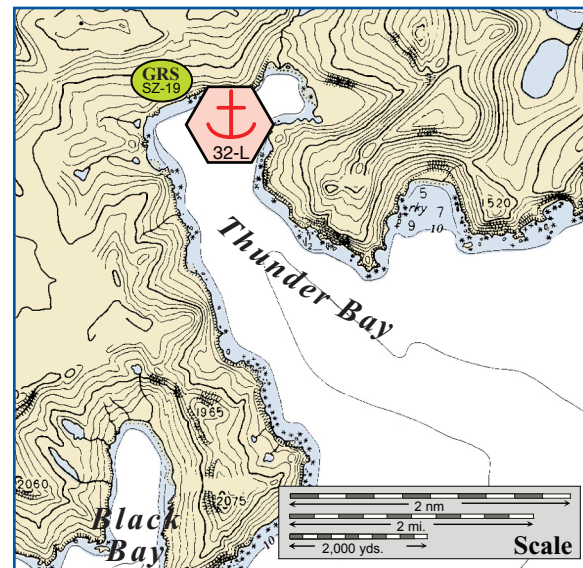
Nuka Bay - North Arm.



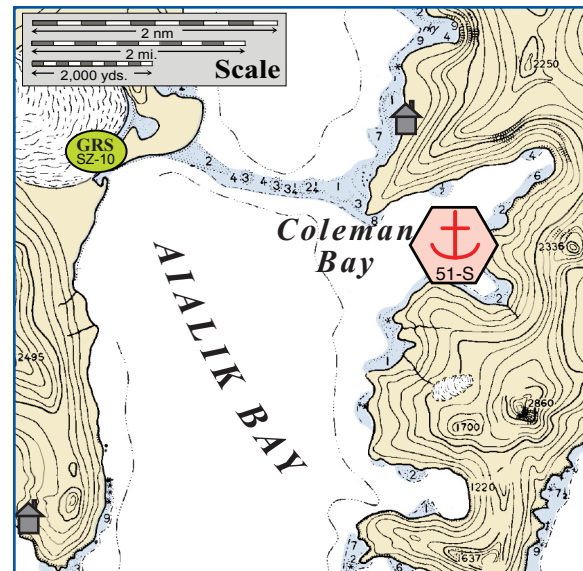
Cataract Cove, McMullen Cove & Quicksand Cove.



Yalik Bay and Surprise Bay.

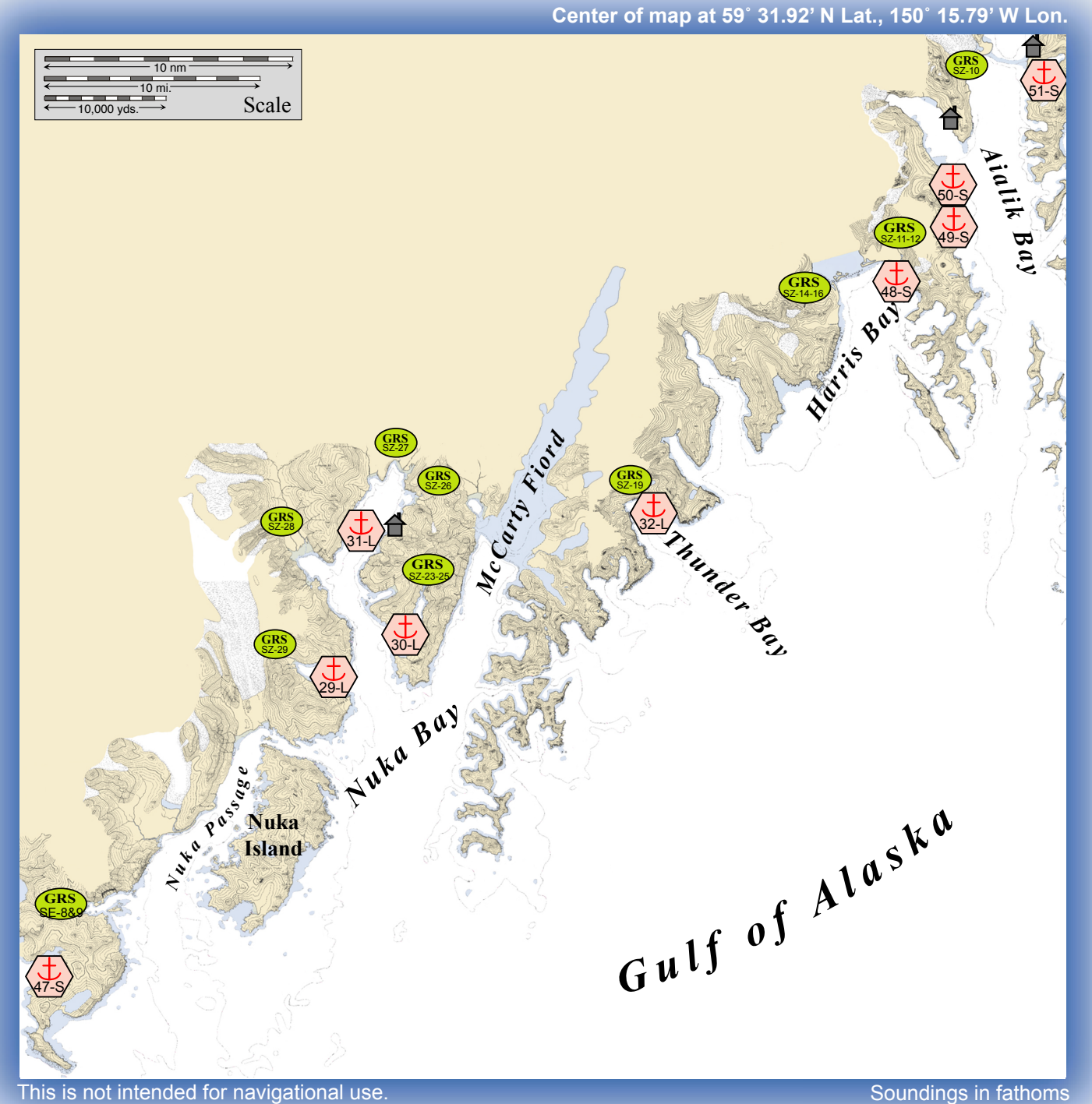


Thunder Bay.



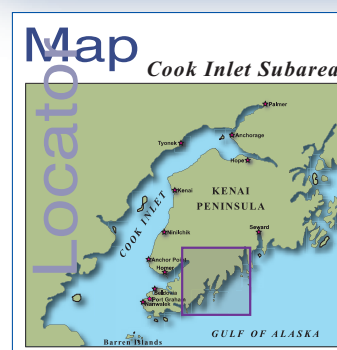
Coleman Bay.

# Potential Places of Refuge for Cook Inlet 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

## Cook Inlet PPOR Map 05



COOK INLET PPOR-05 Southeast Outer Coast Area – Physical and Operational Characteristics									
	Yalik Bay	Surprise Bay	Nuka Bay-North Arm	Thunder Bay	Takoma Cove	Cataract Cove	McMullen Cove	Quicksand Cove	Coleman Bay
ID Number	29-L	30-L	31-L	32-L	47-S	48-S	49-S	50-S	51-S
Location	59°27.92N 150°35.70W	59°29.54N 150°29.89W	59°33.46N 150°34.66W	59°34.53N 150°11.79W	59°15.64N 151°00.17W	59°42.83N 149°49.21W	59°45.87N 149°46.58W	59°47.09N 149°46.60W	59°51.89N 149°38.63W
Maximum Vessel Size	Light draft, up to 20,000 Gross Tons				Shallow draft, 300 Gross Tons and less				
Type of Berthing	Anchorage								
Contact	N/A								
Navigational Approach	Approach from SE	Approach from the SW	Approach from S	Approach from the SE	Approach from the SW	Approach from SW	Approach from the E	Approach from SE	Approach from W
Minimum Water Depth	72 ft. in swing area	144 ft. in swing area	72 ft. in swing area	72 ft. in swing area	54 ft. in swing area	170 ft. in swing area	36 ft. in swing area	72 ft. in swing area	48 ft. in swing area
Maximum Water Depth	360 ft. in swing area	200 ft. in the swing area	300 ft. in swing area	144 ft. in swing area	240 ft. in swing area	200 ft. in swing area	144 ft. in swing area	150 ft. in swing area	160 ft. in swing area
Maximum Vessel Draft	35 ft.	35 Ft.	35 ft.	35 ft.	20 ft.	20 ft.	20 ft.	20 ft.	20 ft.
Swing Room/Dock Face	1200 ft.	1200 ft.	1500 ft.	2400 ft.	1200 ft.	900 ft.	600 ft.	1200 ft.	900 ft
Bottom Type	Mud	Rocky	Mud	Sand	Rocky				
Docks/Piers	Nearest PPOR-06-33-L Seward UAF Research Dock								
Moorings	Nearest Mooring PPOR-04-27-L Port Chatham								
Anchorage	Nearest Alt. Anchorage PPOR-05-30-L Surprise Bay	Nearest Alt. Anchorage PPOR-05-29-L Yalik Bay	Nearest Alt. Anchorage PPOR-05-30-L Surprise Bay	Nearest Alt. Anchorage PPOR-05-30-L Surprise Bay	Nearest Alt. Anchorage PPOR-05-30-L Surprise Bay	Nearest Alt. Anchorage PPOR-05-49-S McMullen Cove	Nearest Alt. Anchorage PPOR-05-50-S Quicksand Cove	Nearest Alt. Anchorage PPOR-05-49-S McMullen Cove	Nearest Alt. Anchorage PPOR-05-50-S Quicksand Cove
Prevailing Winds	Winter winds are generally northerly, Summer winds are generally southerly								
Currents	Tidal influence currents are present throughout. The Alaska Coastal Current moves west in near-coastal waters.								
Tides	Mean High Water- 10.5 (Higher- 11.4) , Mean Low Water- 1.4 (Lower- -4.0)			Mean High Water- 10 (Higher- 11) , Mean Low Water- 1.3 (Lower- -4.0)	Mean High Water- 11.2 (Higher- 12.1) , Mean Low Water- 1.4 (Lower- -4.0)		Mean High Water- 9.7 (Higher- 10.7) , Mean Low Water- 1.3 (Lower- -4.0)		
Sea Conditions	Exposed to a S, SE swell	Exposed to a SW swell	Exposed to S swell		Exposed to the W swell	Exposed to W swell	Fairly protected	Exposed to S,E	Fairly protected
Shelter from Severe Storms (This area is subject to williwaws)	Sheltered from storms E-W				Fairly protected		Sheltered from storms E-W		
Fog	Fog can occur during all seasons								
Sea ice	Grey ice may form in protected waters/harbors during colder periods in winter								

Site ID Number and Vessel Size Classification		COOK INLET PPOR-05 Southeast Outer Coast Area – Site Considerations									
D = Deep Draft Vessel, greater than 20,000 GT			Yalik Bay	Surprise Bay	Nuka Bay-North Arm	Thunder Bay	Takoma Cove	Cataract Cove	McMullen Cove	Quicksand Cove	Coleman Bay
L = Light Draft Vessel, up to 20,000 GT		ID Number	29-L	30-L	31-L	32-L	47-S	48-S	49-S	50-S	51-S
S = Shallow Draft Vessel, 300 GT and less		Human Health & Safety									
		Communities – distances-nm	Seward-78		Seward-79	Seward-52	Seward-68	Seward-46	Seward-36		Seward-42
		Natural Resource Considerations									
		Fish & Wildlife	Spawning salmon and herring, sea otters, seals, sea lions, seabird & eagle nesting, waterfowl concentration								
		Threatened & Endangered Species	Steller's sea lions rookery located at the entrance to Nuka Bay			Steller's sea lions forage in the area		Steller's sea lions forage in the area. Kittlitz's Murrelets (candidate species under the ESA-2007) are present in the area.			
		Sensitive Areas	Designated as an Environmentally Sensitive Area within the Kenai Fjords National Park				Designated as an Environmentally Sensitive Area	Designated as an Environmentally Sensitive Area within the Kenai Fjords National Park			
		Other Stakeholder Considerations									
		Fisheries	Salmon, groundfish								
		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	Harbor seals			None	Harbor seals, salmon				
		Tourism/Recreation	High recreational use area- sport fishing, kayaking, excursion boats								
		Waterfront Public Facilities/Parks	Kenai Fjords National Park- public use cabin in Nuka North Arm			Kenai Fjords National Park	Alaska State Park	Kenai Fjords National Park	Kenai Fjords National Park-public use cabin in Aialik Bay, Holgate Arm		
		Waterfront Private Facilities	None								
		Response and Salvage Resource Considerations									
		Ability to Boom Vessel	Weather dependent								
		Geographic Response Strategies	SZ-29,24	SZ-23,24,25	SZ-26,27,28	SZ-18	SECI-06,07,08,09	SZ-13-16	SZ-12,13		SZ-8-10
		Closest Alternative Places of Refuge (same sized vessel)	PPOR 05-30-L Surprise Bay: 3.0 nm.	PPOR 05-29-L Yalik Bay: 3.0 nm.	PPOR 05-30-L Surprise Bay: 3.0 nm.	PPOR 05-30-L Surprise Bay: 20.5 nm.	PPOR 05-30-L Surprise Bay: 31.0 nm.	PPOR 05-49-S McMullen Cove: 20 nm.	PPOR 05-50-S Quicksand Cove: 1.5 nm.	PPOR 04-49-S McMullen Cove: 1.5 nm.	PPOR 05-50-S Quicksand Cove: 6.5 nm.
<b>COOK INLET PPOR-05 Southeast Outer Coast Area Stakeholders</b>											
Landowner (yr-2007)	Contact										
Alaska State Parks	Kenai District Ranger										
Alaska Maritime National Wildlife Refuge	Dept. of the Interior-Regional Environmental Officer										
Alaska Dept of Fish and Game	Regional Supervisor										
Alaska Department of Natural Resources	Natural Resource Manager										
Kenai Fjords National Park	Dept. of the Interior-Regional Environmental Officer										
English Bay Corporation	CEO										
Port Graham Corporation	President										
Native Allotments	Dept. of the Interior-Regional Environmental Officer										
Bureau of Land Management	Dept. of the Interior-Regional Environmental Officer										
Private Landowners-contact Alaska State Lands Recorder Office	Seward District Recorder										