

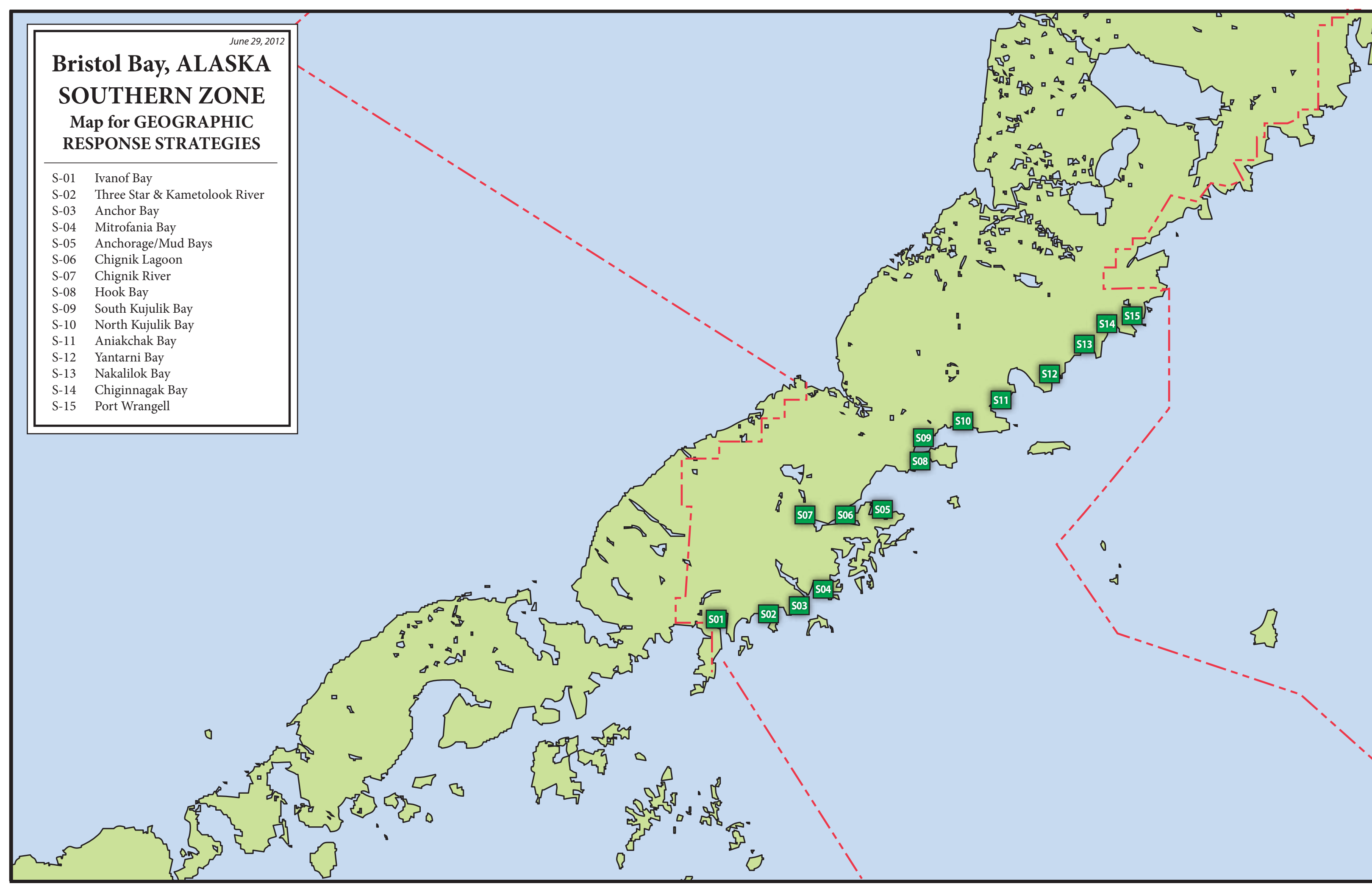
June 29, 2012

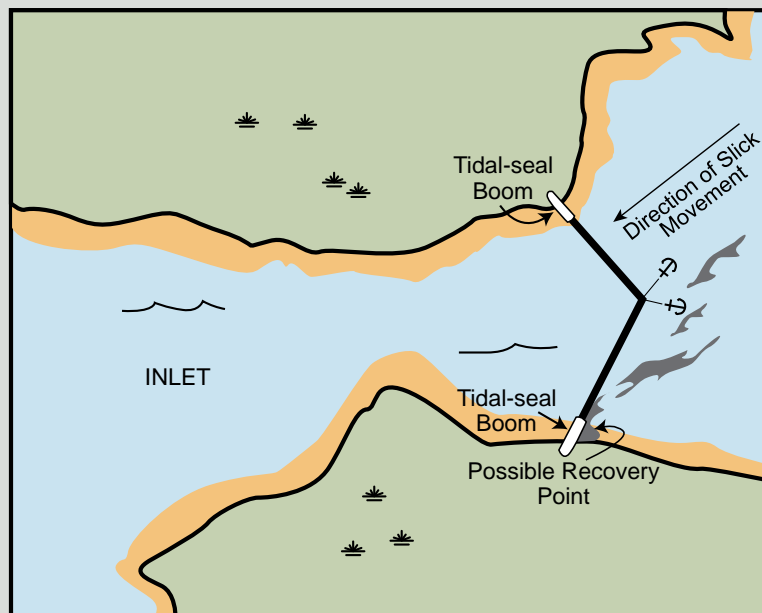
Bristol Bay, ALASKA

SOUTHERN ZONE

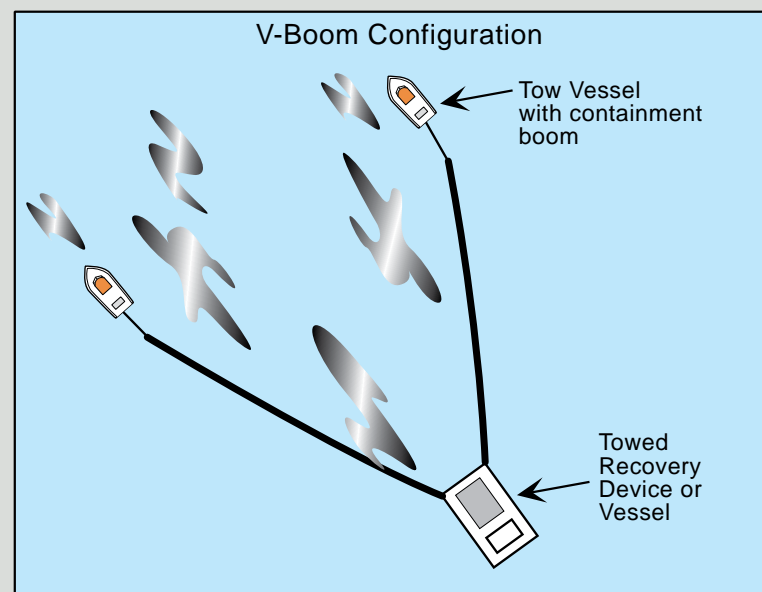
Map for GEOGRAPHIC RESPONSE STRATEGIES

- S-01 Ivanof Bay
- S-02 Three Star & Kametolook River
- S-03 Anchor Bay
- S-04 Mitrofanina Bay
- S-05 Anchorage/Mud Bays
- S-06 Chignik Lagoon
- S-07 Chignik River
- S-08 Hook Bay
- S-09 South Kujulik Bay
- S-10 North Kujulik Bay
- S-11 Aniakchak Bay
- S-12 Yantarni Bay
- S-13 Nakalilok Bay
- S-14 Chiginnagak Bay
- S-15 Port Wrangell

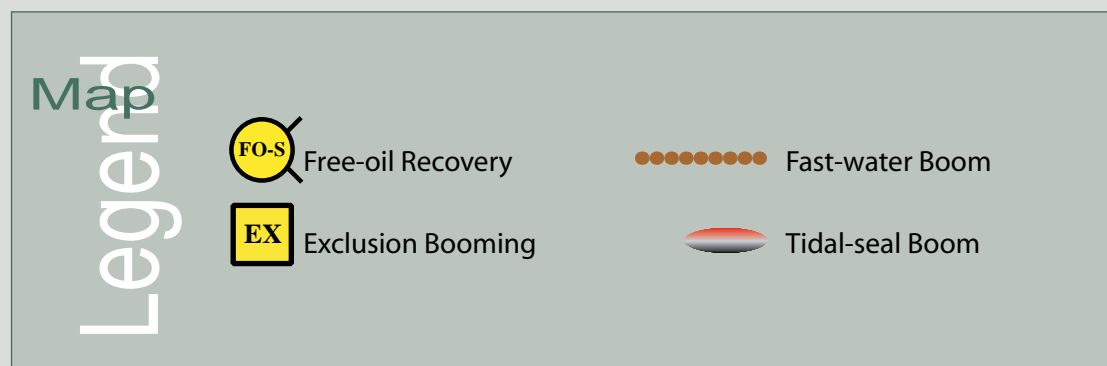




An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.

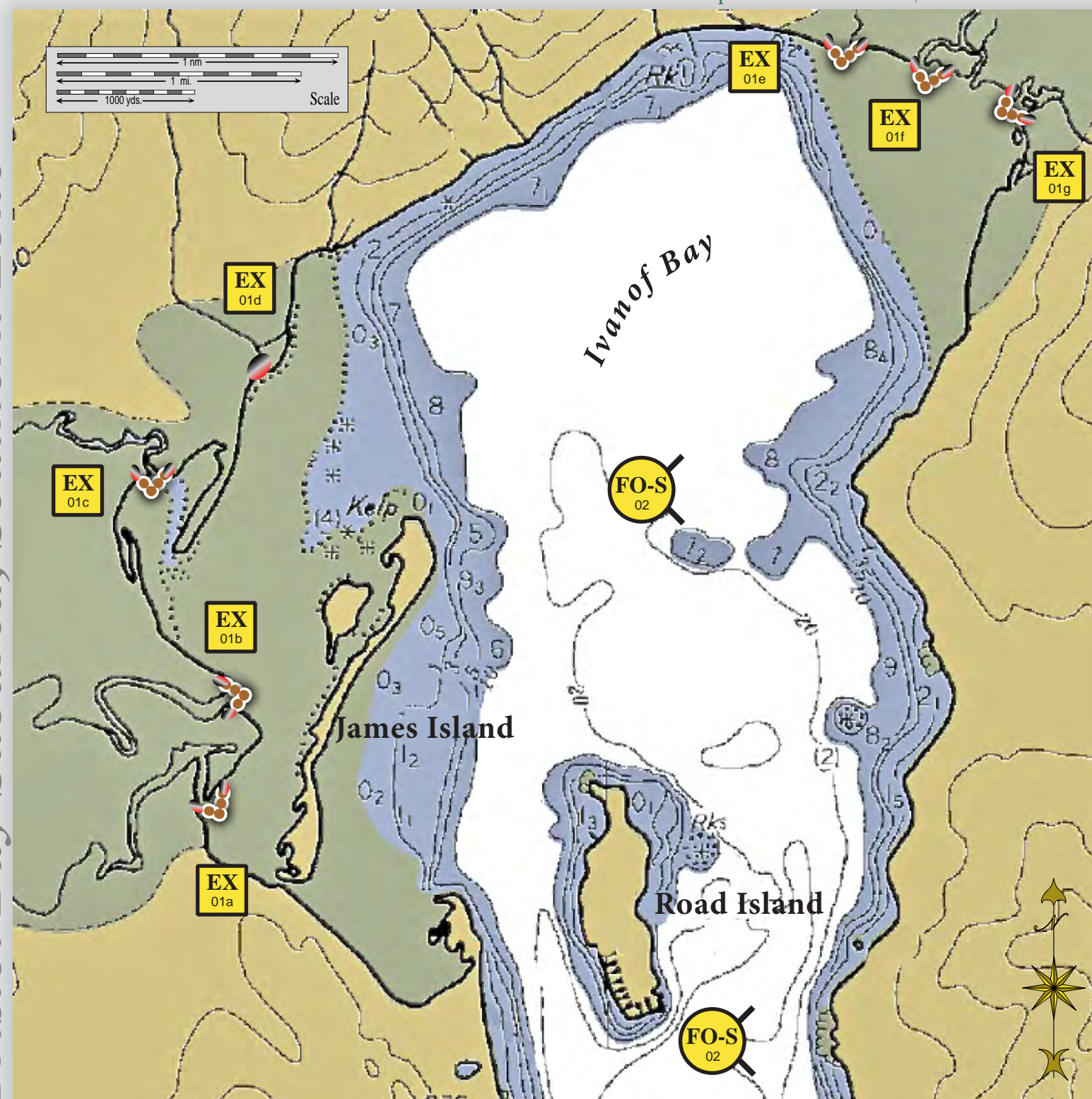


Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

Ivanof Bay, BB-S01

Center of map at 55° 51.73' N Lat., 159° 30.38' W Lon.



This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
<div>S-01-01</div> <div>EX</div>	Ivanof Bay <div>a. Lat. 55° 51.32’N Lon. 159°52.58’W</div> <div>b. Lat. 55° 51.64’N Lon. 159°32.44’W</div> <div>c. Lat. 55° 52.46’N Lon. 159°32.94’W</div> <div>d. Lat. 55° 52.69’N Lon. 159°32.32’W</div> <div>e. Lat. 55° 53.95’N Lon. 159°28.22’W</div> <div>f. Lat. 55° 53.86’N Lon. 159°27.63’W</div> <div>g. Lat. 55° 53.77’N Lon. 159°27.31’W</div>	Exclusion <div>Exclude oil from impacting the streams in Ivanof Bay. (Sorbent boom may provide adequate protection on the smaller creeks)</div>	<div>Deploy anchors and boom with skiffs (class 6) at high tide.</div> <div>Place fast-water boom in a chevron pattern in front of the entrance to the river. Complete the array by placing 60 ft. of tidal seal boom on each leg.</div> <div>Tend throughout the tide.</div> <div>Boom Length:<div>a. 300 ft</div><div>b. 300 ft</div><div>c. 300 ft</div><div>d. 100 ft tidal seal</div><div>e. 150 ft</div><div>f. 250 ft</div><div>g. 350 ft</div></div>	Deployment Equipment <div>1650 ft. fast-water boom</div> <div>820 ft. tidal seal boom</div> <div>12 ea. anchor systems</div> <div>24 ea. anchor stakes</div> <div>1 ea. shore-side recovery systems</div> Vessels <div>3 ea. class 6</div> Personnel/Shift <div>9 ea. vessel crew/general techs</div> Tending Vessels <div>2 ea. class 6</div> Personnel/Shift <div>4 ea. vessel crew/general techs</div>	Ivanof Bay	<div>Via marine waters</div> <div>Chart 16556</div>	<div>Fish- intertidal spawning- salmon (June-Sept.)</div> <div>Birds-waterfowl, seabird and shorebird nesting</div> <div>Marine mammals – sea otters</div> <div>Habitat- exposed rocky shore, marsh, exposed tidal flats</div> <div>Human use-subsistence, commercial fishing</div>	<div>Vessel master should have local knowledge.</div> <div>Title 41 permitting required from ADNRP.</div> <div>THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations.</div> <div>The community of Ivanof Bay may provide support.</div> <div>A large population of bears are in this area. Bear guard required.</div> <div>Surveyed: not yet</div> <div>Tested: not yet</div>
<div>S-01-02</div> <div>FO-S</div>	Ivanof Bay <div>Nearshore waters in the general area of: Lat. 55° 51.73’N Lon. 159°30.38’W</div>	Free-oil Recovery <div>Maximize free-oil recovery in the offshore & nearshore environment of Ivanof Bay depending on spill location and trajectory.</div>	<div>Deploy free-oil recovery strike teams upwind and up current of the Ivanof Bay.</div> <div>Use aerial surveillance to locate incoming slicks.</div>	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Ivanof Bay	<div>Via marine waters</div> <div>Chart 16556</div>	<div>Same as S-02-01</div>	<div>Vessel master should have local knowledge.</div> <div>Use extreme caution, shallow waters with shifting channels and bars.</div>



Three Star River viewed from the southwest.



Three Star River viewed from the west.

Legend

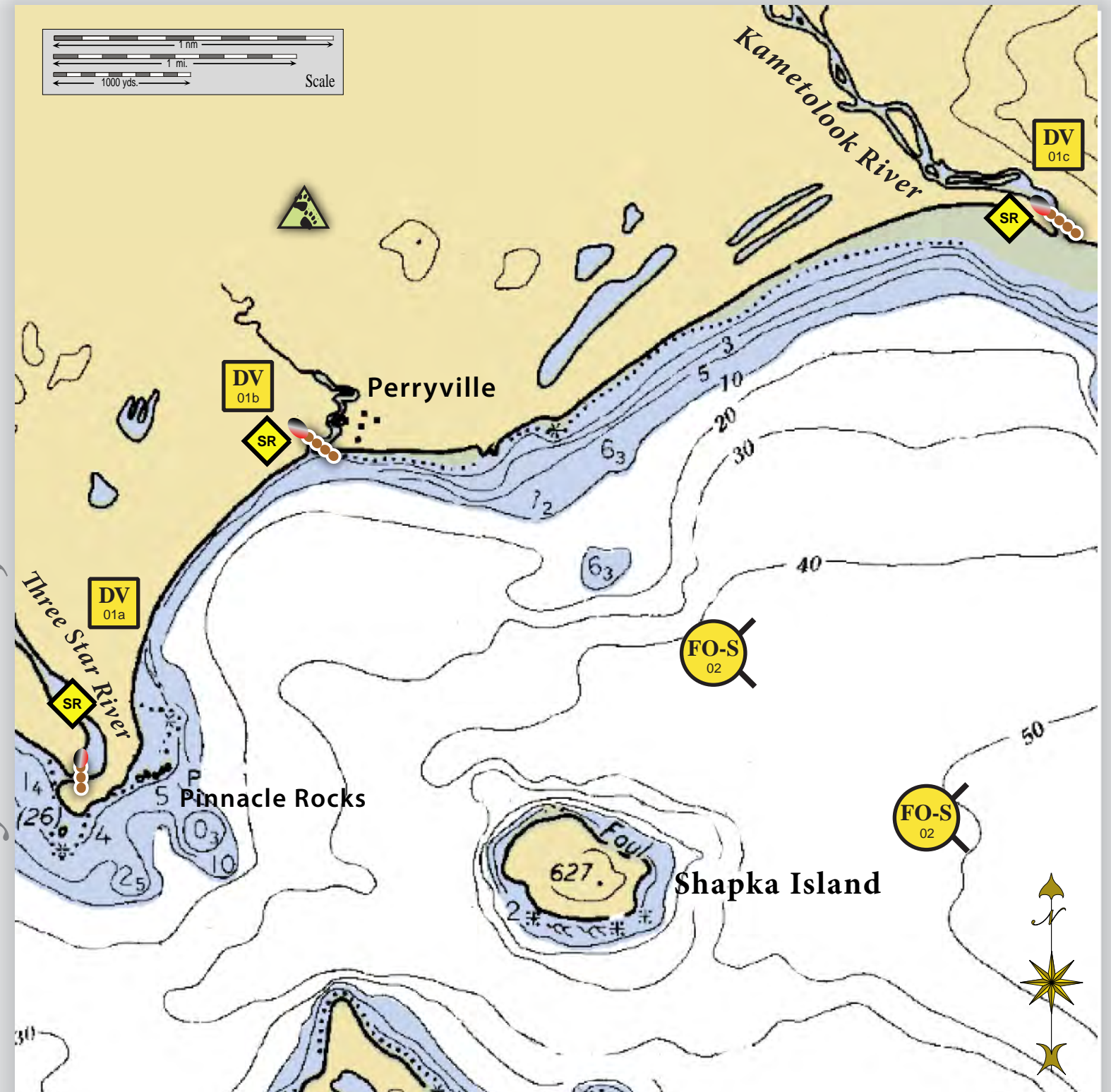
Map

- Free-oil Recovery
- Diversion Booming
- Shoreside Recovery
- Protected-water Boom
- Tidal-seal Boom
- Bears in Area, Guards Recommended

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

Three Star & Kametolook River, BB-S02

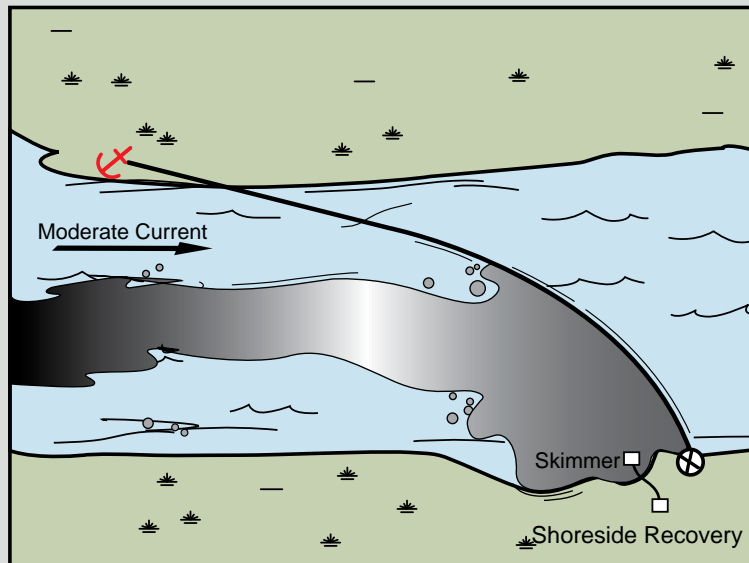
Center of map at 55° 54.43' N Lat., 159° 07.64' W Lon.



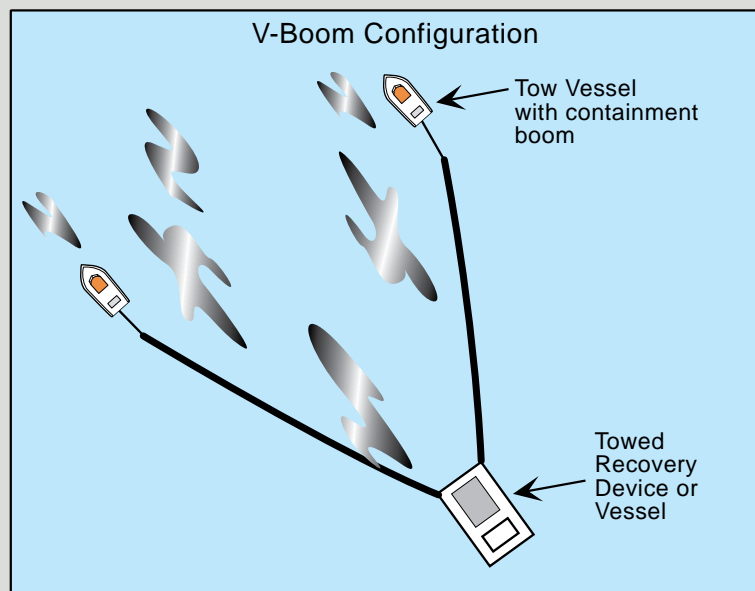
This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-02-01 <div>DV</div>	Three Star Pt Creek & Kametolook River a. Lat. 55° 53.50'N Lon. 159°10.56'W b. Lat. 55° 54.55'N Lon. 159°09.07'W c. Lat. 55° 55.43'N Lon. 159°04.39'W	Divert and Collect Divert oil to shore side collection location on the shoreline of the identified creeks in the Perryville Area.	Deploy anchors and boom with skiffs (class 6). Place fast-water boom at each location at the proper angle to divert incoming oil to the collection sites. Complete the array with 60 ft. of tidal seal boom on the shore that will be used as a collection site. Set up shore-side recovery and tend throughout the tide. Boom Lengths: <div>a. 400 ft b. 200 ft c. 350 ft</div>	Deployment Equipment 950 ft. fast-water boom 180 ft. tidal seal boom 4 ea. anchor systems 12 ea. anchor stakes 3 ea. shore-side recovery systems Vessels 2 ea. class 6 Personnel/Shift 6 ea. vessel crew/general techs 4 ea. response techs Tending Vessels 2 ea. class 6 Personnel/Shift 4 ea. vessel crew/general techs 3 ea. skilled tech	Perryville	Via marine waters Chart 16556	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird concentration Marine mammals- seals, sea otters Habitat- exposed tidal flats, peat shoreline, marsh Human use-subsistence, commercial fishing	Vessel master should have local knowledge. Title 41 permitting required from ADNRM. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Take precautions to protect the shoreline as outlined in the Alaska STAR Manual. A large population of bears are in this area. Bear guard required. The community of Perryville may provide support. Surveyed: not yet Tested: not yet
S-02-02 <div>FO-S</div>	Three Star Pt Creek & Kametolook River Nearshore waters in the general area of: Lat. 55° 54.43'N Lon. 159°07.64'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Three Star Pt Creek & Kametolook River depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Three Star Pt Creek & Kametolook River. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Perryville	Via marine waters Chart 16556	Same as S-02-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

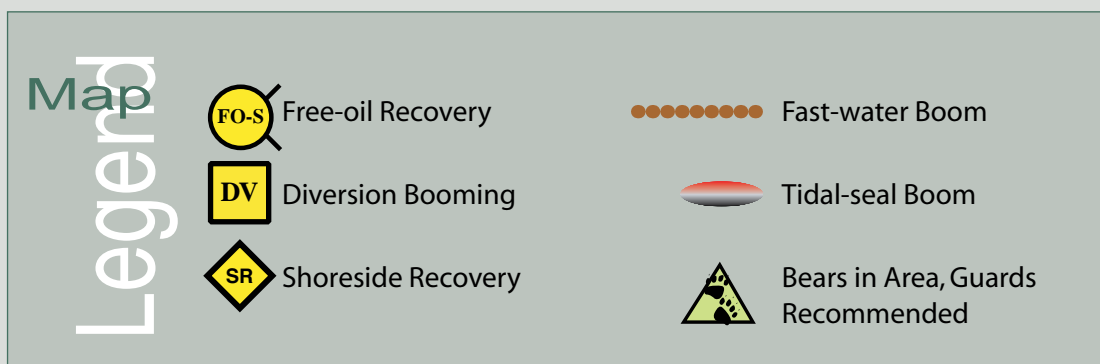
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Bristol Bay Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_bb.htm.



An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.

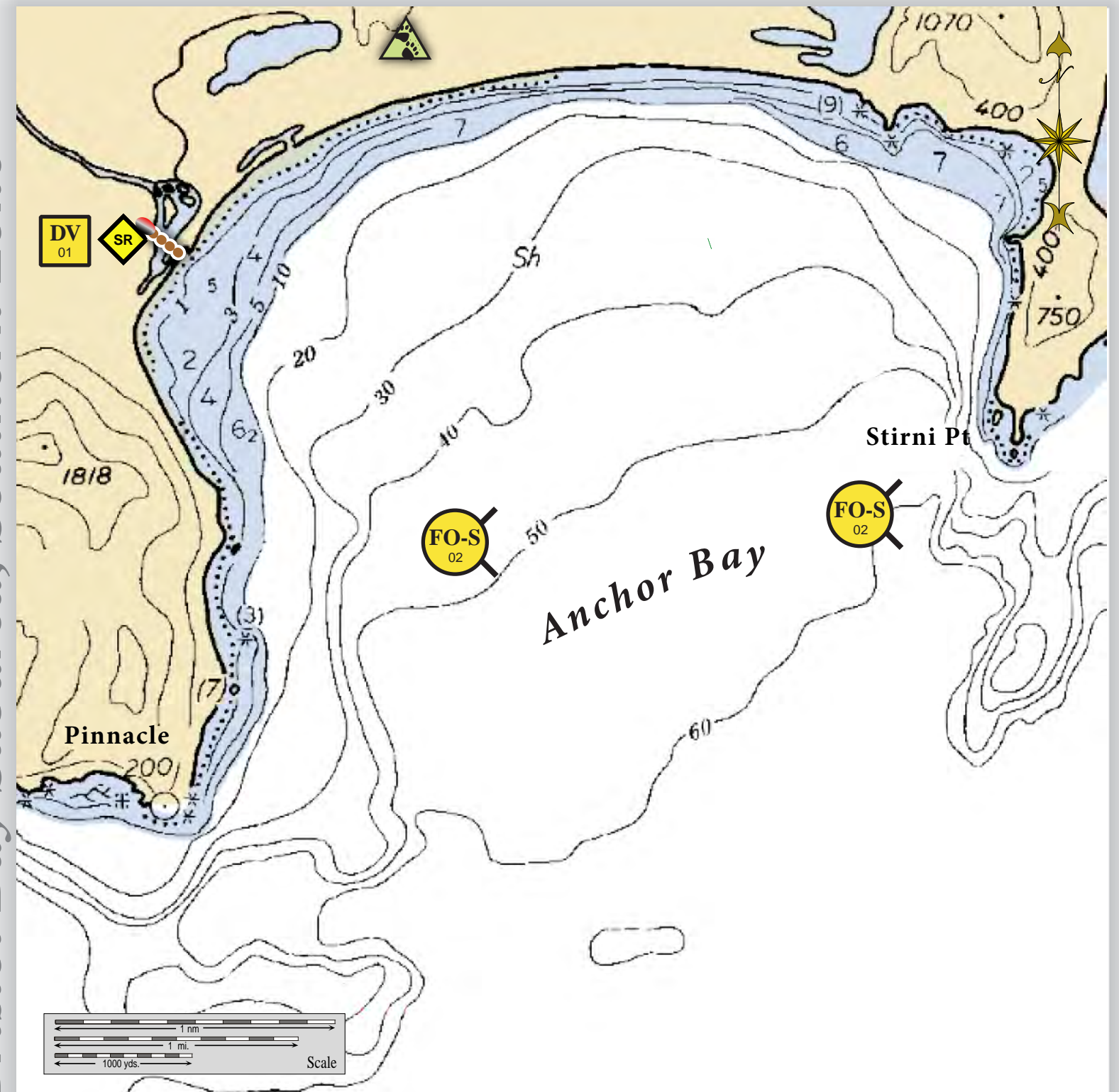


Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

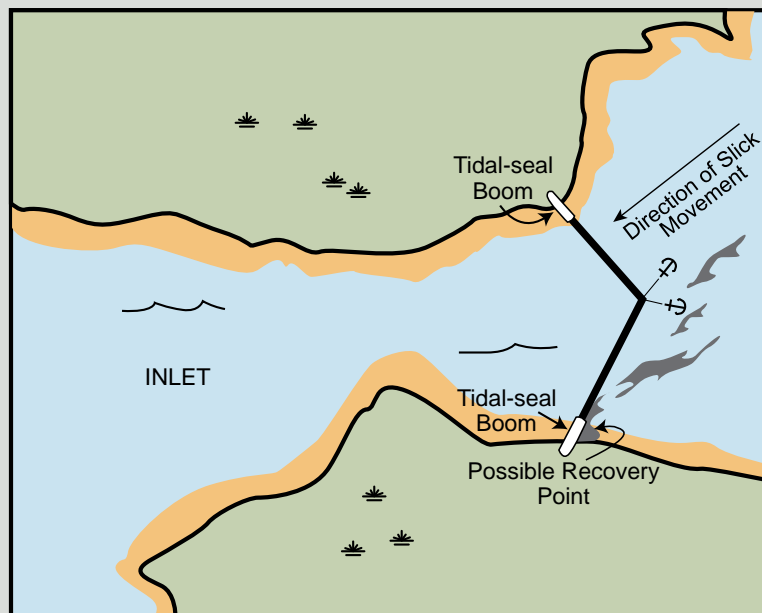
Anchor Bay, BB-S03

Center of map at 55° 55.18' N Lat., 158° 58.79' W Lon.

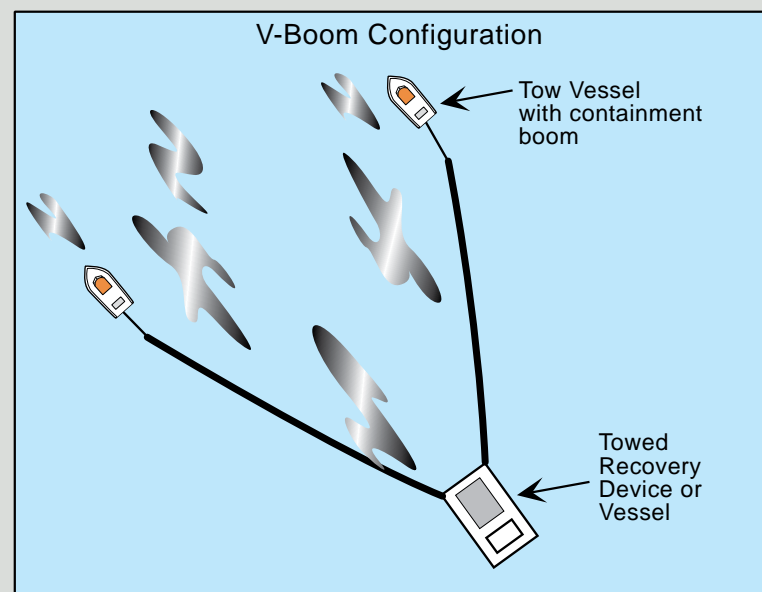


ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-03-01 <div>DV</div>	Anchor Bay Lat. 55° 55.59'N Lon. 159°00.39'W	Divert and Collect Divert oil to shore side collection location on the shoreline of the identified creek in the Anchor Bay.	Deploy anchors and boom with skiffs (class 6). Place fast-water boom at each location at the proper angle to divert incoming oil to the collection sites. Complete the array with 60 ft. of tidal seal boom on the shore that will be used as a collection site. Set up shore-side recovery and tend throughout the tide.	Deployment Equipment 400 ft. fast-water boom 60 ft. tidal seal boom 2 ea. anchor systems 4 ea. anchor stakes 1 ea. shore-side recovery systems Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 5 ea. vessel crew/general techs 2 ea. response techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 4 ea. vessel crew/general techs 1 ea. skilled tech	Perryville	Via marine waters Chart 16556	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird concentration Marine mammals- seals, sea otters Habitat- exposed tidal flats, peat shoreline, marsh, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. Title 41 permitting required from ADNR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Take precautions to protect the shoreline as outlined in tha Alaska STAR Manual. A large population of bears are in this area. Bear guard required. Surveyed: not yet Tested: not yet
S-03-02 <div>FO-S</div>	Anchor Bay Nearshore waters in the general area of: Lat. 55° 55.18'N Lon. 159°58.79'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Anchor Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Anchor Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Perryville	Via marine waters Chart 16556	Same as S-03-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

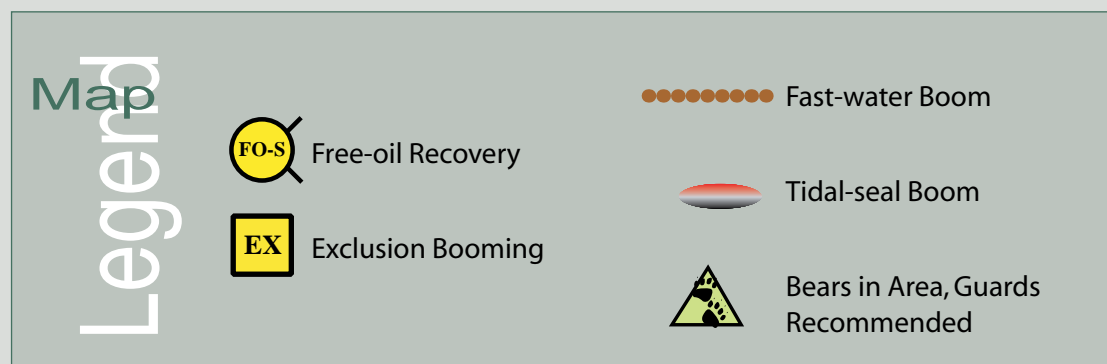
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Bristol Bay Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_bb.htm.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.

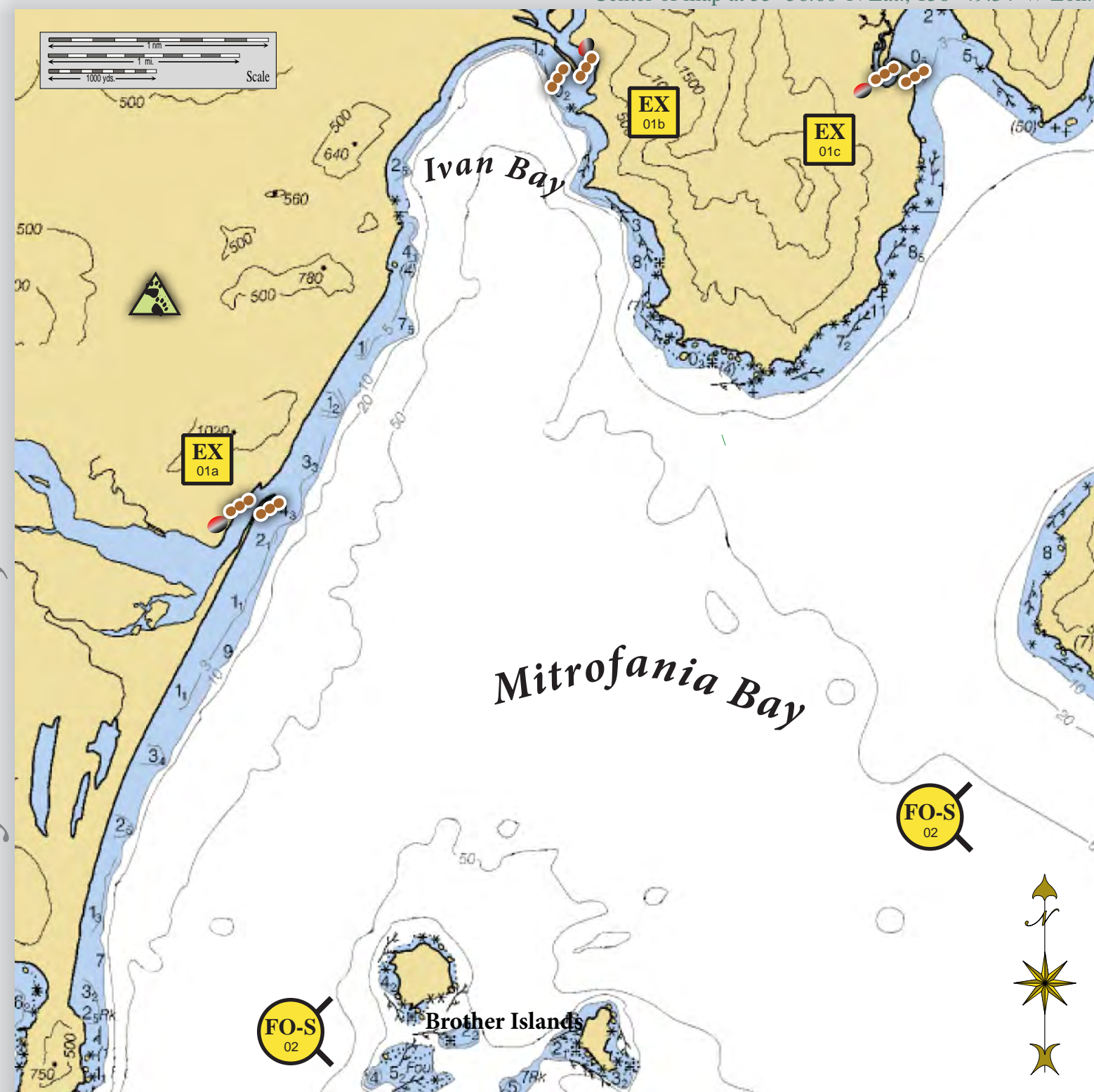


Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

Mitrofanina Bay, BB-S04

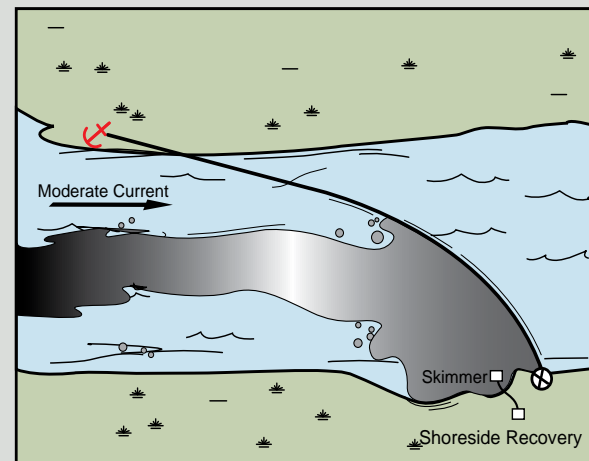
Center of map at 55° 56.60' N Lat., 158° 49.34' W Lon.



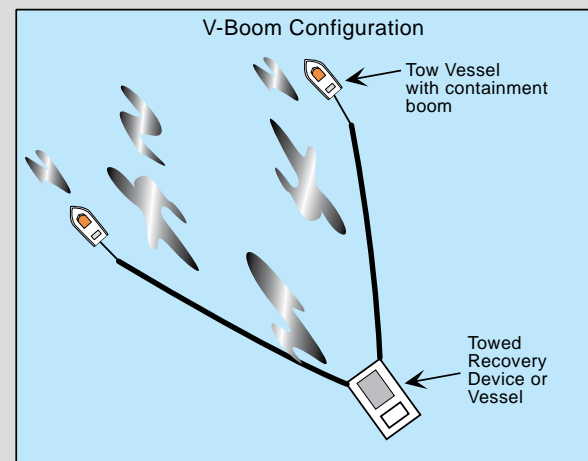
This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-04-01 <div>EX</div>	Mitrofanía Bay a. Lat. 55° 58.21'N Lon. 158°53.05'W b. Lat. 55° 00.81'N Lon. 158°49.61'W c. Lat. 55° 00.79'N Lon. 158°46.49'W If sea state threatens to breach the beach berm in front of (a) the array should be moved further back.	Exclusion Exclude oil from impacting the streams in Mitrofanía Bay.	Deploy anchors and boom with skiffs (class 6). At all locations place fast-water boom in a chevron pattern in front of the entrances to the streams. Complete the array by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Booms Length: <div>a. 400 ft b. 600 ft c. 500 ft</div>	Deployment Equipment 1500 ft. fast-water boom 180 ft. tidal seal boom 9 ea. anchor systems 12 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 4 ea. vessel crew/general techs	Perryville	Via marine waters Chart 16561	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird nesting Marine mammals – sea otters Habitat- exposed rocky shore, marsh, exposed tidal flats, kelp beds Human use- subsistence, commercial fishing	Vessel master should have local knowledge. Title 41 permitting required from ADNR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. A large population of bears are in this area. Bear guard required. Surveyed: not yet Tested: not yet
S-04-02 <div>FO-S</div>	Mitrofanía Bay Nearshore waters in the general area of: Lat. 55° 56.60'N Lon. 158°49.34'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Mitrofanía Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Mitrofanía Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Perryville	Via marine waters Chart 16561	Same as S-04-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

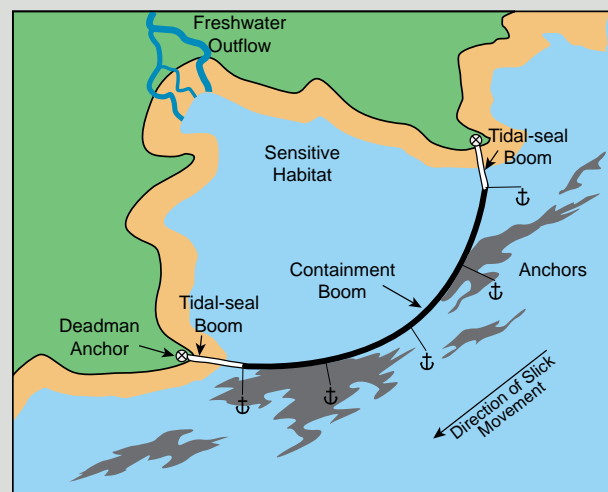
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Bristol Bay Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_bb.htm.



An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.

Map Legend

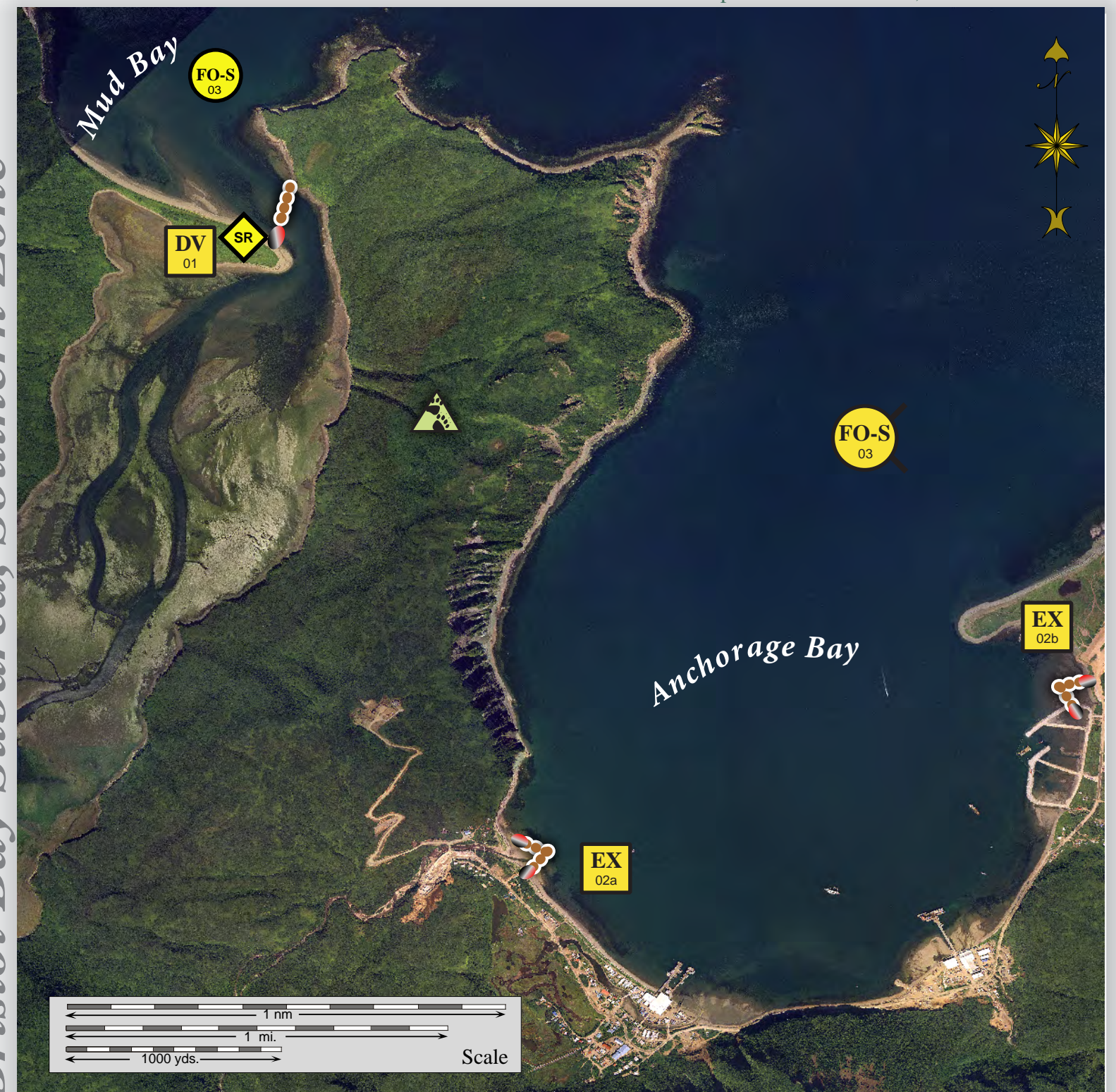
	Free-oil Recovery		Fast-water Boom
	Exclusion Booming		Tidal-seal Boom
	Diversion Booming		Bears in Area, Guards Recommended
	Shoreside Recovery		

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

Chignik/Mud Bays, BB-S05

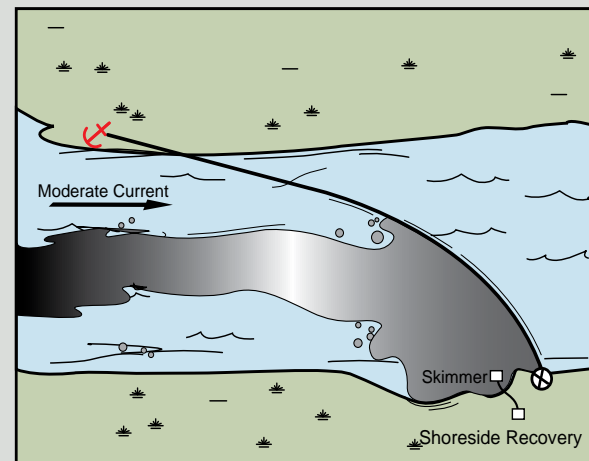
Center of map at 56° 19.85' N Lat., 158° 23.22' W Lon.



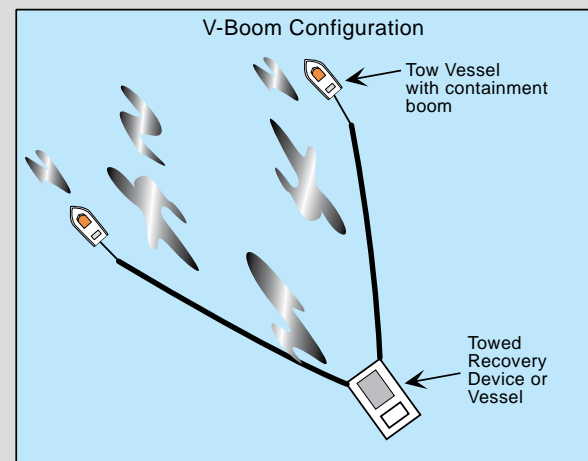
This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-05-01 <div>DV</div>	Chignik & Mud Bays Lat. 56° 19.39'N Lon. 158°25.42'W	Divert and Collect Divert oil to shore side collection locations on the spit that forms Mud Bay.	Deploy anchors and boom with skiffs (class 6). Cascade 3 sections of 300ft. fast-water boom extending from the spit at the proper angle to divert incoming oil to the collection site. Complete the arrays with 60 ft. of tidal seal boom on the shore that will be used as a collection site. Set up shore-side recovery and tend throughout the tide	Deployment Equipment 900 ft. fast-water boom 60 ft. tidal seal boom 4 ea. anchor systems 4 ea. anchor stakes Vessels 2 ea. class 6 Personnel/Shift 4 ea. vessel crew/general techs 2 ea. skilled techs Tending Vessels 1 ea. class 6 Personnel/Shift 2 ea. vessel crew/general techs 1 ea. skilled techs	Chignik	Via marine waters Chart 16566	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird nesting, waterfowl concentration Marine mammals – sea otters Habitat- exposed rocky shore, marsh, exposed tidal flats, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. Title 41 permitting required from ADNRR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Take precautions to protect the shoreline as outlined in the Alaska STAR Manual. A large population of bears are in this area. Bear guard required. Surveyed: not yet Tested: not yet
S-05-02 <div>EX</div>	Chignik & Mud Bays a. Lat. 55° 18.04'N Lon. 158°24.61'W b. Lat. 55° 18.13'N Lon. 158°21.69'W	Exclusion Exclude oil from impacting the streams in Chignik Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. Place fast-water boom in a chevron pattern in front of the entrance to the river. Complete the array by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Booms Length: a. 150 ft b. 200 ft.	Deployment Equipment 350 ft. fast-water boom 240 ft. tidal seal boom 2 ea. anchor systems 8 ea. anchor stakes Vessels/Personnel/Shift Same as S-05-01 Tending Vessels/Personnel/Shift Same as S-05-01	Chignik	Via marine waters Chart 16566	Same as S-05-01	Vessel master should have local knowledge. Title 41 permitting required from ADNRR.
S-05-03 <div>FO-S</div>	Chignik & Mud Bays Nearshore waters in the general area of: Lat. 55° 19.85'N Lon. 158°22.23'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Chignik & Mud Bays depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Chignik & Mud Bays. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16566	Same as S-05-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

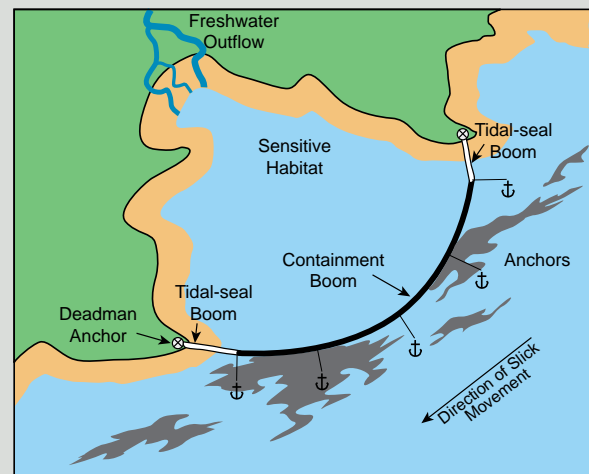
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Bristol Bay Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_bb.htm.



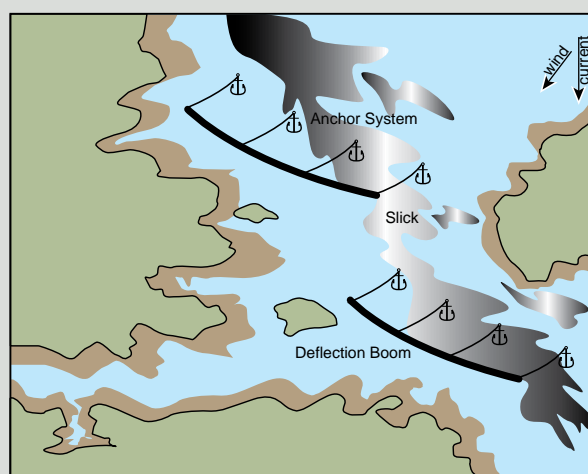
An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Deflection Booming Tactic*. Actual deployment should be adjusted for local conditions.

Map Legend

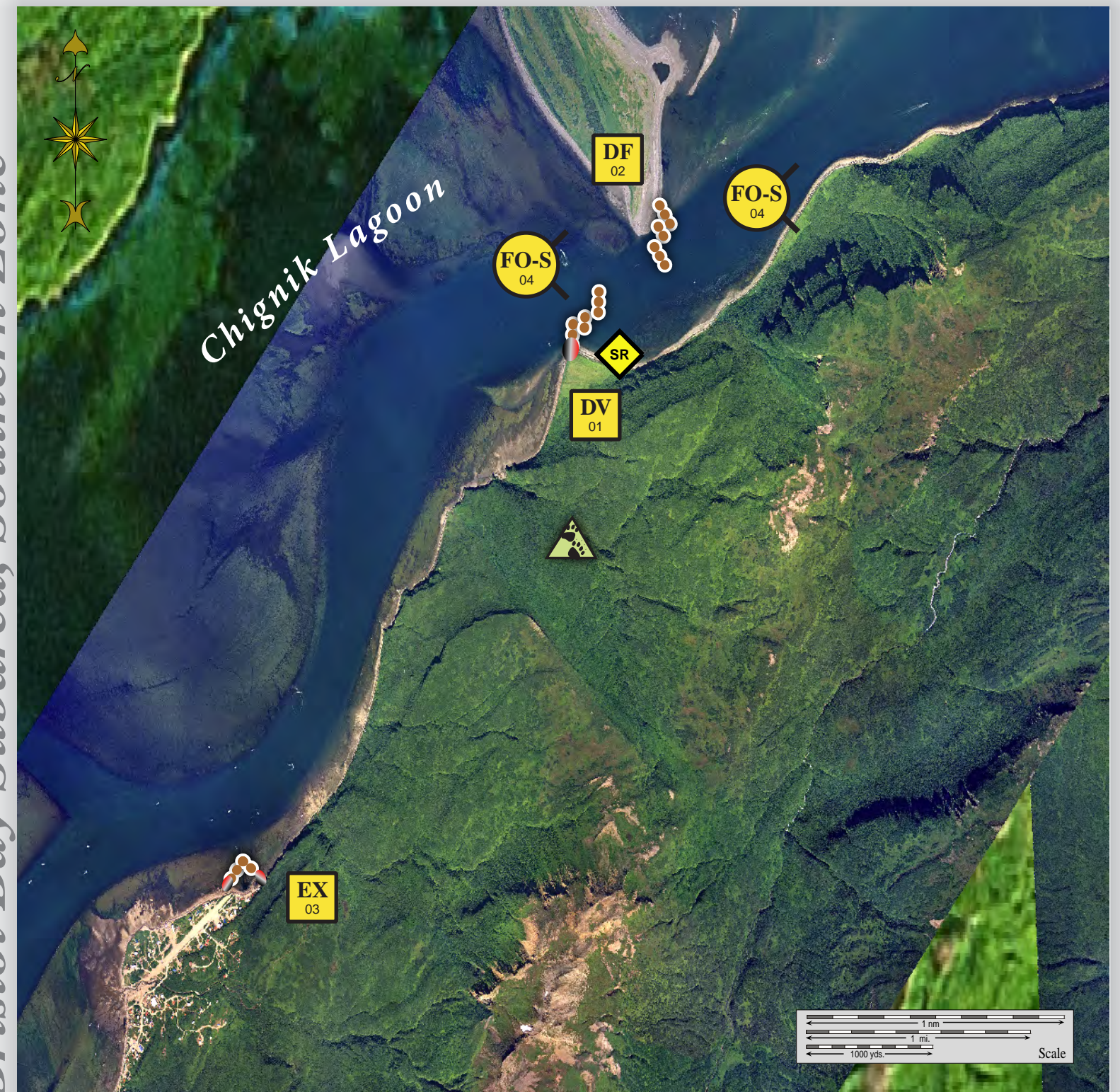
FO-S	Free-oil Recovery	SR	Shoreside Recovery
DF	Deflection Booming		Fast-water Boom
EX	Exclusion Booming		Tidal-seal Boom
DV	Diversion Booming		Bears in Area, Guards Recommended

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

Chignik Lagoon, BB-S06

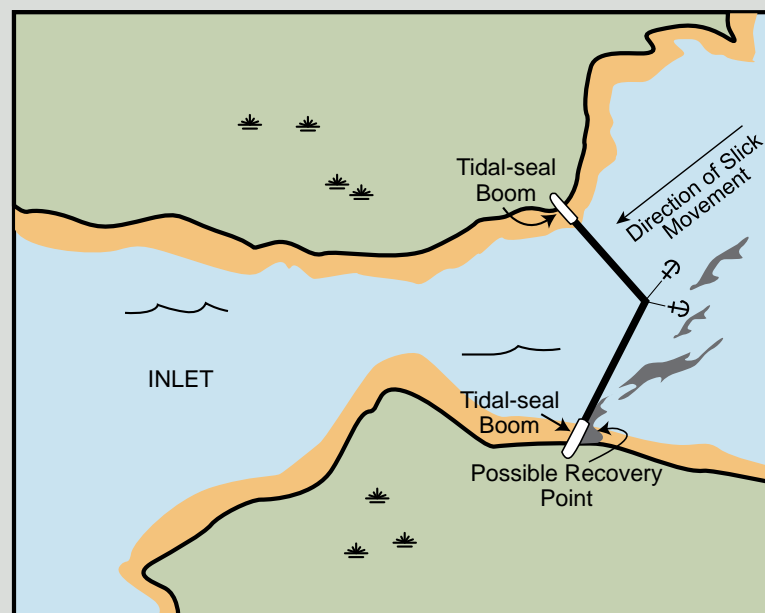
Center of map at 56° 21.46' N Lat., 158° 29.20' W Lon.



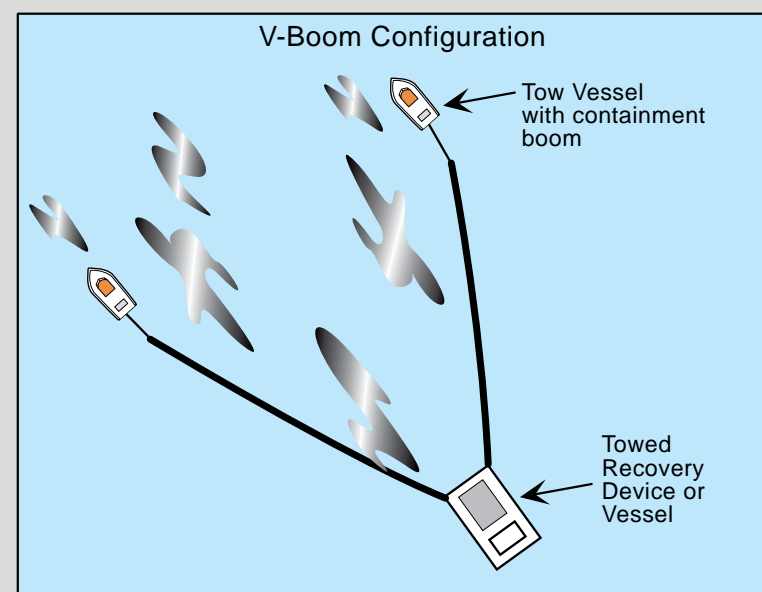
This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-06-01 <div>DV</div>	Chignik Lagoon Entrance Lat. 56° 20.02’N Lon. 158°29.68’W	Divert and Collect Divert oil to shore side collection locations on the spit that forms Mud Bay.	Deploy anchors and boom with skiffs (class 6). Cascade 1200 ft. of fast-water boom in 300 ft. lengths extending from Brown’s Point in a cascaded fashion extending into the channel at the proper angle to divert incoming oil to the collection site. Complete the shore side boom with 60 ft. of tidal seal boom. Set up shore-side recovery and tend throughout the tide	Deployment Equipment 1200 ft. fast-water boom 60 ft. tidal seal boom 12 ea. anchor systems 2 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew/general techs 2 ea. skilled techs Tending Vessels 1 ea. class 6 Personnel/Shift 2 ea. vessel crew/general techs 1 ea. skilled techs	Chignik Lagoon	Via marine waters Chart 16566	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird nesting, waterfowl concentration Marine mammals – sea otters Habitat- exposed rocky shore, marsh, exposed tidal flats, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. Take precautions to protect the shoreline as outlined in the Alaska STAR Manual. A large population of bears are in this area. Bear guard required. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-06-02 <div>DF</div>	Chignik Lagoon Entrance Lat. 56° 20.42’N Lon. 158°29.24’W	Deflection Deflect oil that is going to Chignik Lagoon across the channel and into the S-06-02 array for oil collection.	Deploy anchors and boom with skiffs (class 6). Place 3 arrays of 300 ft. fast-water boom in a cascaded pattern in the path of the incoming oil. Deflect incoming oil across the channel for collection. Tend throughout the tide.	Deployment Equipment 900 ft. fast-water boom 9 ea. anchor systems Vessels/Personnel/Shift Same as S-06-01 Tending Vessels/Personnel/Shift Same as S-06-01	Chignik Lagoon	Via marine waters Chart 16566	Same as S-06-01	Vessel master should have local knowledge.
S-06-03 <div>EX</div>	Chignik Lagoon Lat. 55° 18.97’N Lon. 158°31.35’W	Exclusion Exclude oil from impacting the stream in Chignik Lagoon.	Deploy anchors and boom with skiffs (class 6) at high tide. Place fast-water boom in a chevron pattern in front of the entrance to the creek. Complete the array by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Boom Length: a. 150 ft b. 200 ft.	Deployment Equipment 350 ft. fast-water boom 120 ft. tidal seal boom 2 ea. anchor systems 4 ea. anchor stakes Vessels/Personnel/Shift Same as S-06-01 Tending Vessels/Personnel/Shift Same as S-06-01	Chignik Lagoon	Via marine waters Chart 16566	Same as S-06-01	Vessel master should have local knowledge. Title 41 permitting required from ADNR.
S-06-04 <div>FO-S</div>	Chignik Lagoon Entrance Nearshore waters in the general area of: Lat. 55° 19.85’N Lon. 158°22.23’W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Chignik Lagoon Entrance depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Chignik Lagoon Entrance. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik Lagoon	Via marine waters Chart 16566	Same as S-06-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

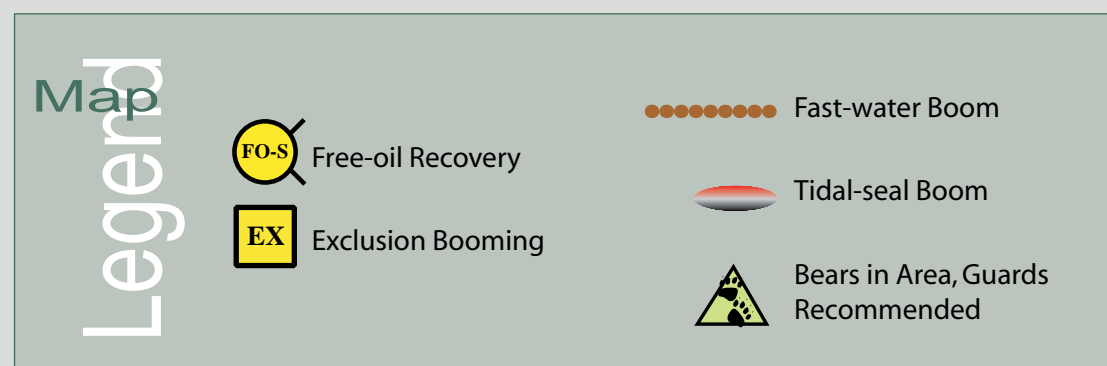
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Bristol Bay Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_bb.htm.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.

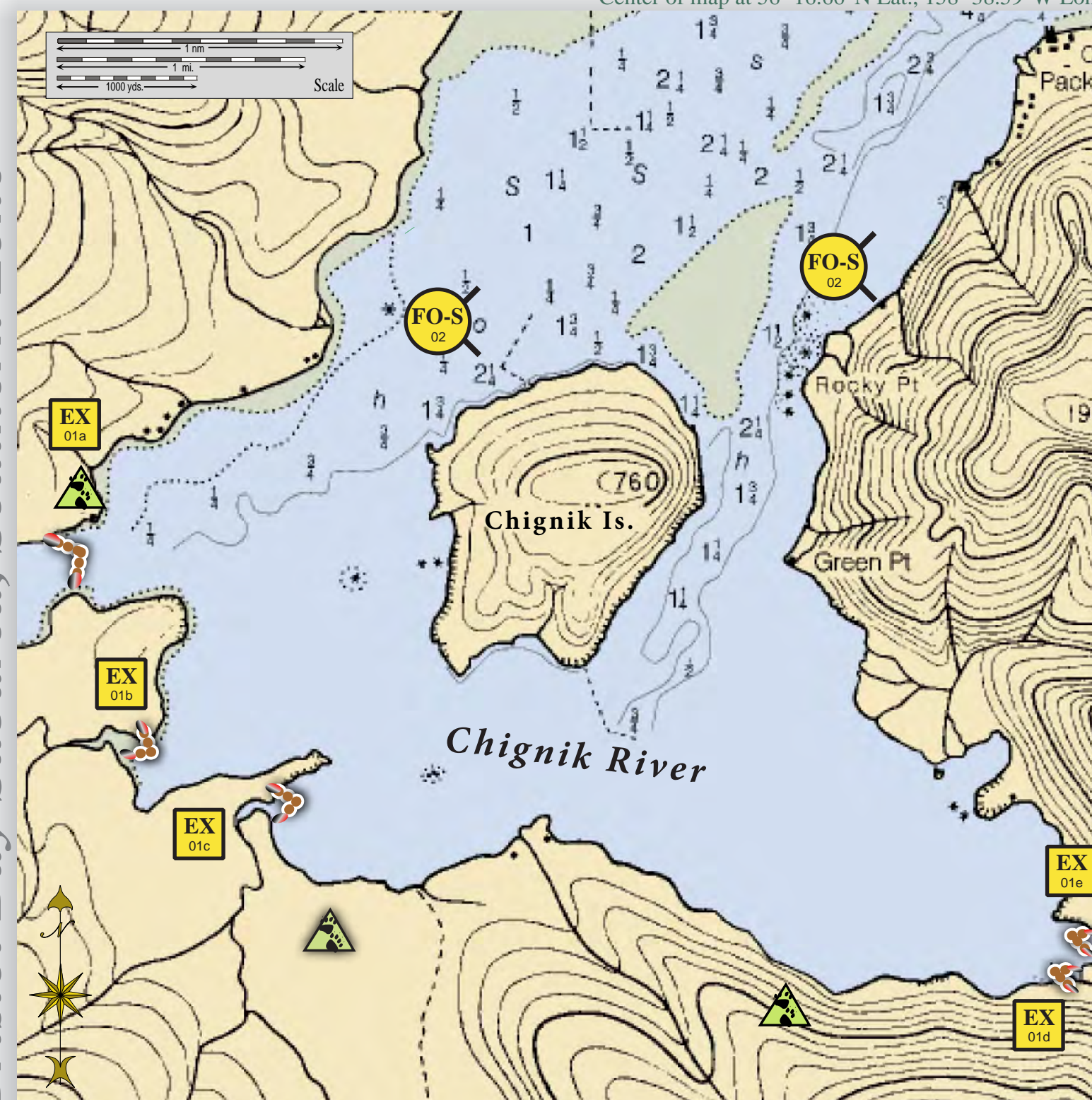


Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

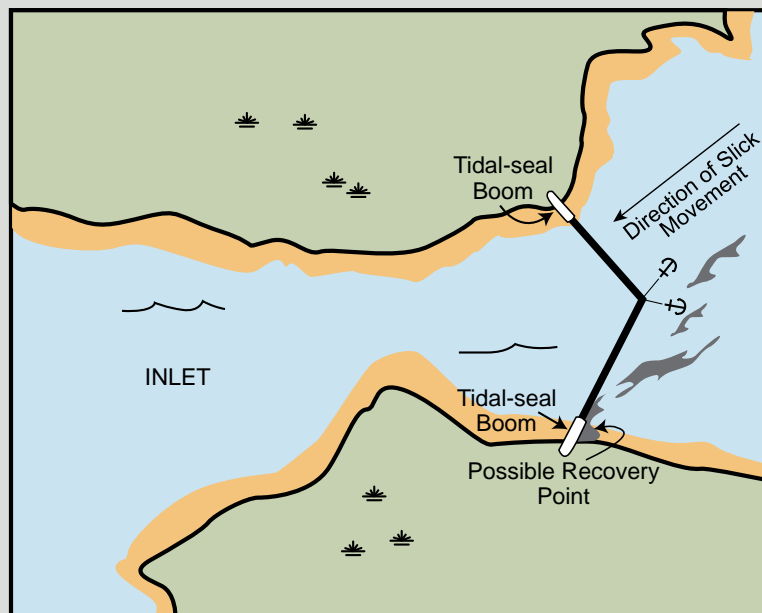
Chignik River, BB-S07

Center of map at 56° 16.66' N Lat., 158° 38.59' W Lon.

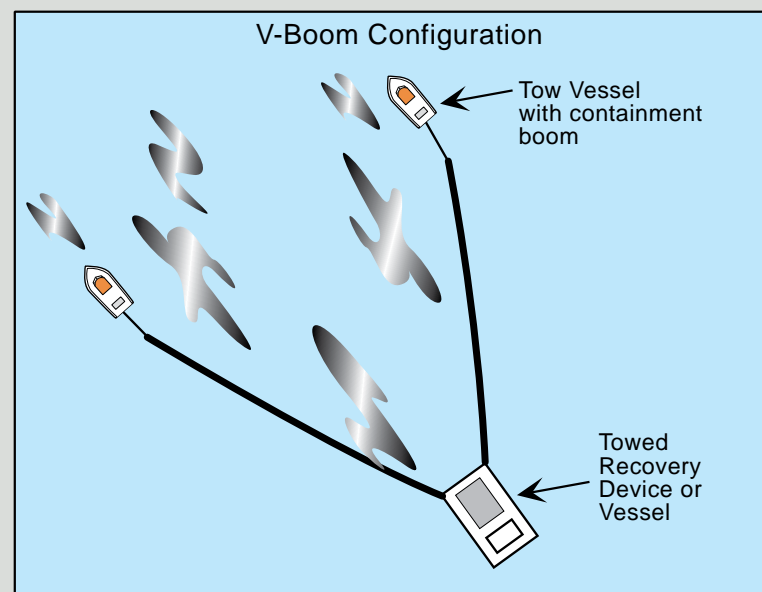


This is not intended for navigational use.

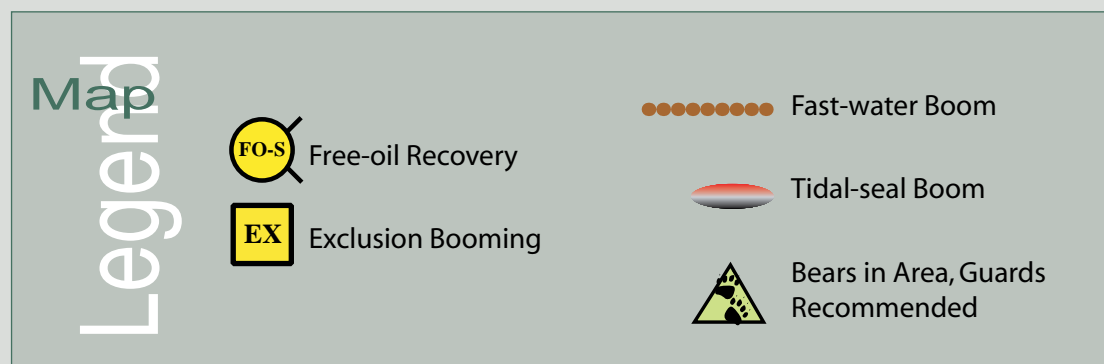
ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-07-01 <div>EX</div>	Chignik River a. Lat. 56° 16.66'N Lon. 158°38.80'W b. Lat. 56° 15.99'N Lon. 158°38.54'W Metrofania Creek c. Lat. 56° 15.72'N Lon. 158°37.51'W Mallard Duck Creek d. Lat. 56° 15.15'N Lon. 158°31.93'W e. Lat. 56° 15.27'N Lon. 158°31.80'W	Exclusion Exclude oil from impacting the streams in Chignik Lagoon.	Deploy anchors and boom with skiffs (class 6) at high tide. Place fast-water boom in a chevron pattern in front of the entrance to the river and streams. Complete the array by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Boom Length: <div>a. 1800 ft b. 350 ft. c. 400 ft. d. 300 ft. e. 300 ft.</div>	Deployment Equipment 3150 ft. fast-water boom 600 ft. tidal seal boom 15 ea. anchor systems 20 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 2 ea. vessel crew/general techs	Chignik	Via marine waters Chart 16566	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird nesting, waterfowl concentration Marine mammals- sea otters Habitat- exposed rocky shore, marsh, exposed tidal flats, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADN.R. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-07-02 <div>FO-S</div>	Chignik & Mud Bays Nearshore waters in the general area of: Lat. 55° 16.66'N Lon. 158°38.59'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Chignik & Mud Bays depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Chignik & Mud Bays. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16566	Same as S-07-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.



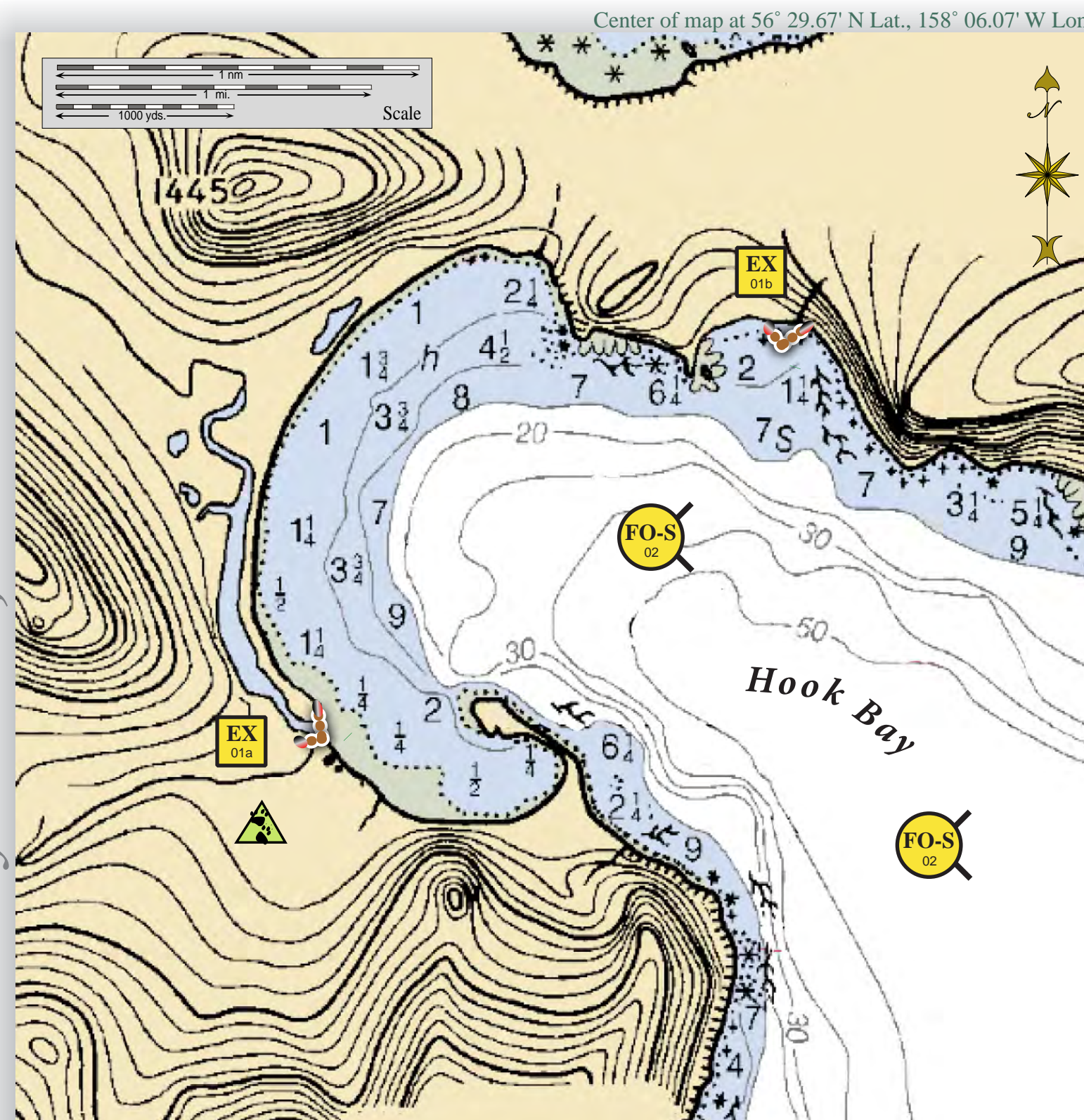
An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.



Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

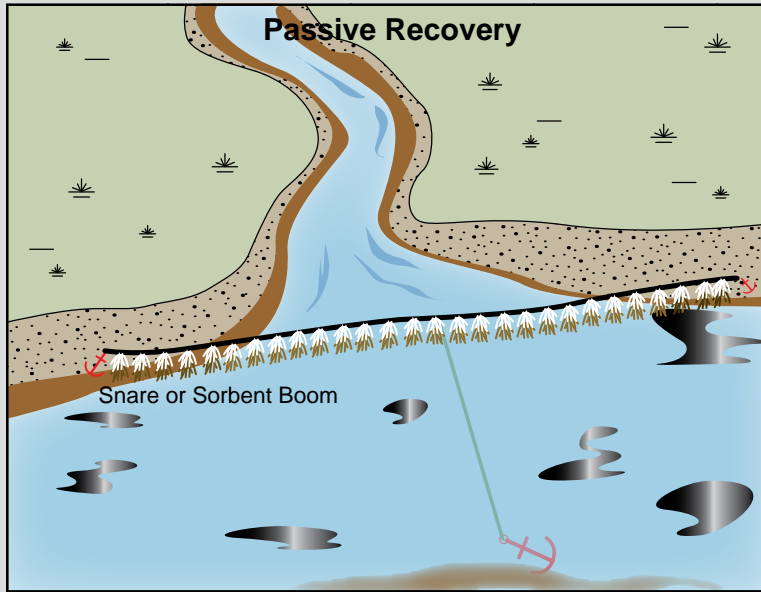
Hook Bay, BB-S08



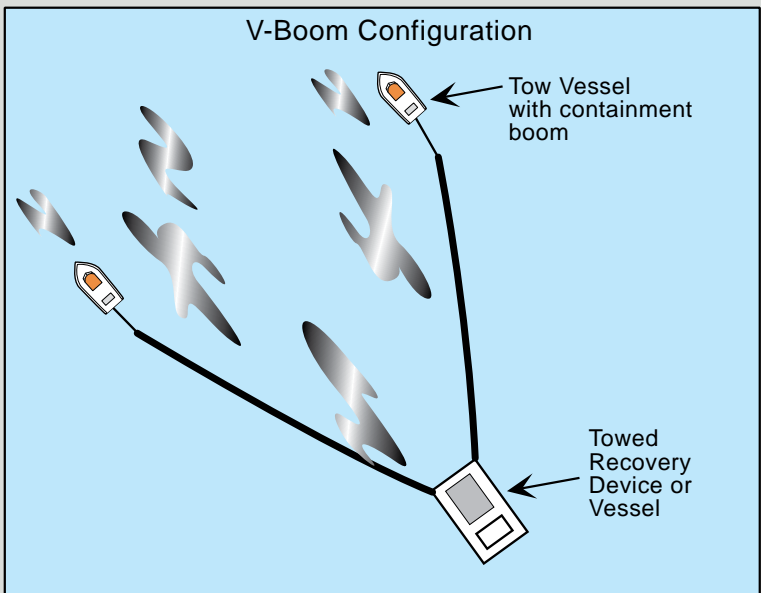
This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-08-01 <div>EX</div>	Hook Bay a. Lat. 56° 30.05’’N Lon. 158°08.98’W b. Lat. 56° 31.16’N Lon. 158°06.50’W	Exclusion Exclude oil from impacting the streams in Hook Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. Place fast-water boom in a chevron pattern in front of the entrance to the river and streams. Complete the array by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Boom Length: <div>a. 350 ft b. 150 ft.</div>	Deployment Equipment 500 ft. fast-water boom 240 ft. tidal seal boom 4 ea. anchor systems 8 ea. anchor stakes Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 5 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 3 ea. vessel crew/general techs	Chignik	Via marine waters Chart 16566	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird nesting, waterfowl concentration Marine mammals – sea otters Habitat- exposed rocky shore, marsh, exposed tidal flats, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNDR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-08-02 <div>FO-S</div>	Hook Bay Nearshore waters in the general area of: Lat. 56° 26.67’N Lon. 158°06.07’W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Hook Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Hook Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16566	Same as S-08-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

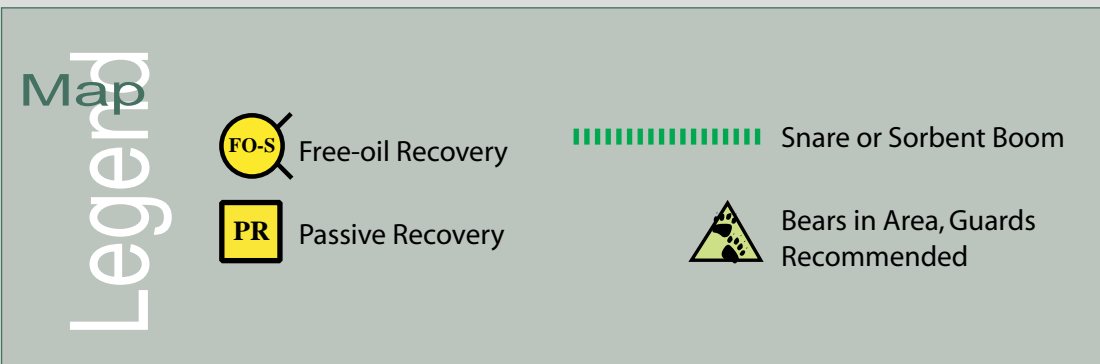
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Bristol Bay Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_bb.htm.



An example of the *Passive Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.

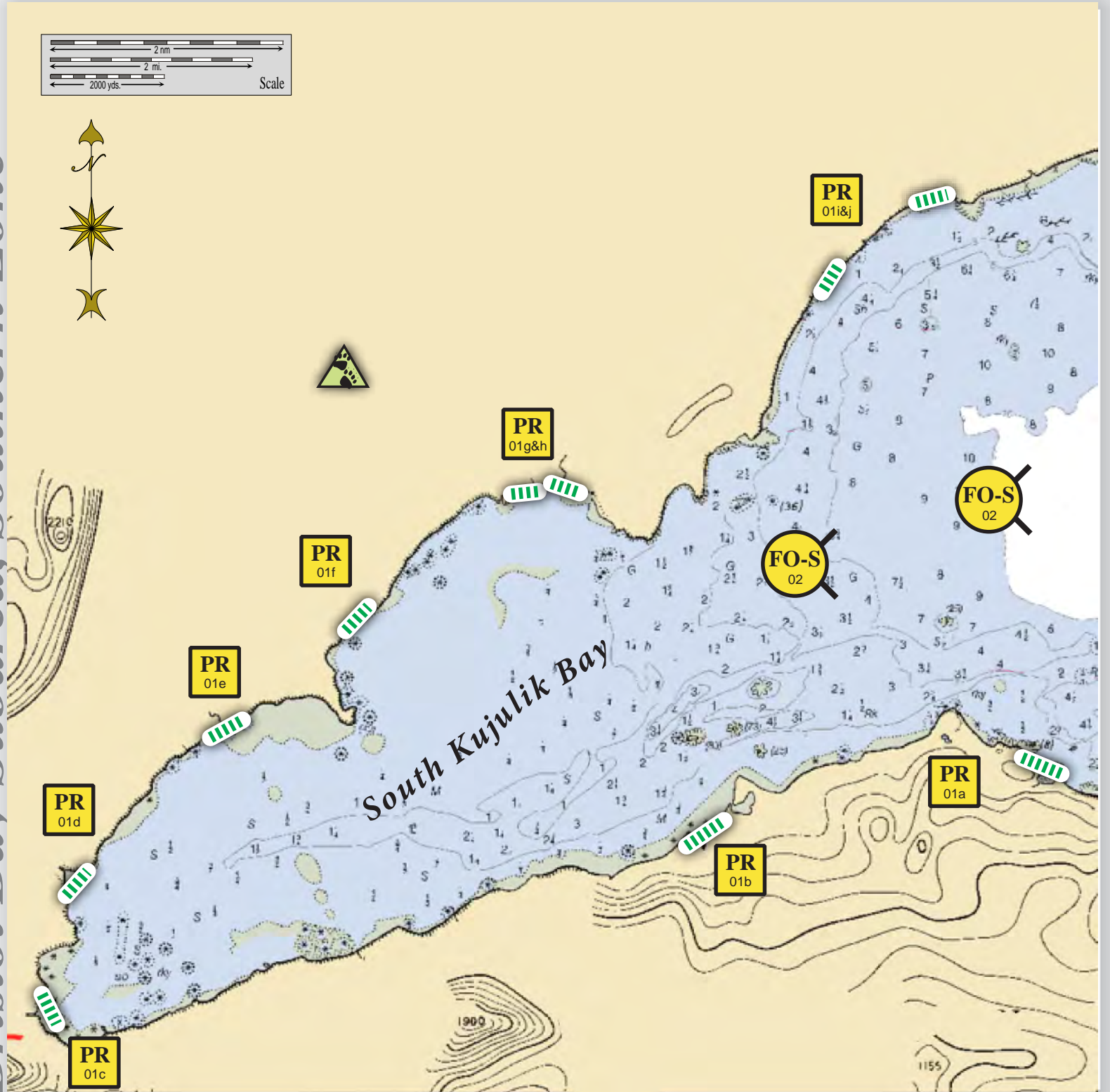


Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

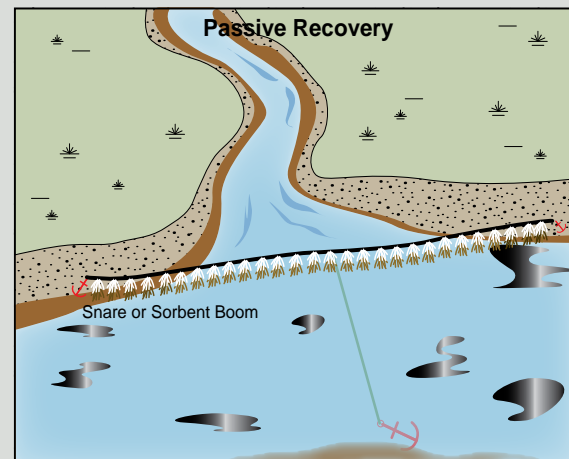
South Kujulik Bay, BB-S09

Center of map at 56° 34.69' N Lat., 157° 53.73' W Lon.

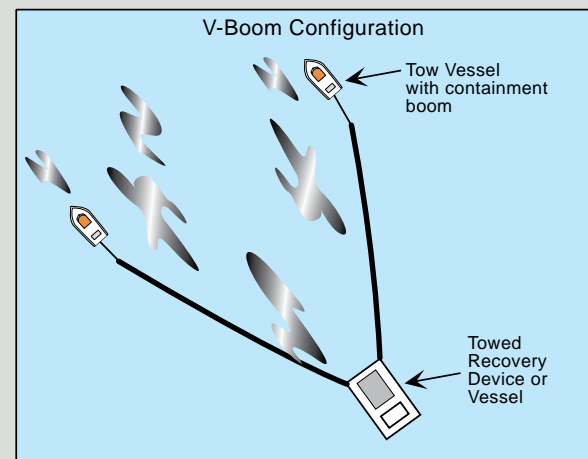


This is not intended for navigational use.

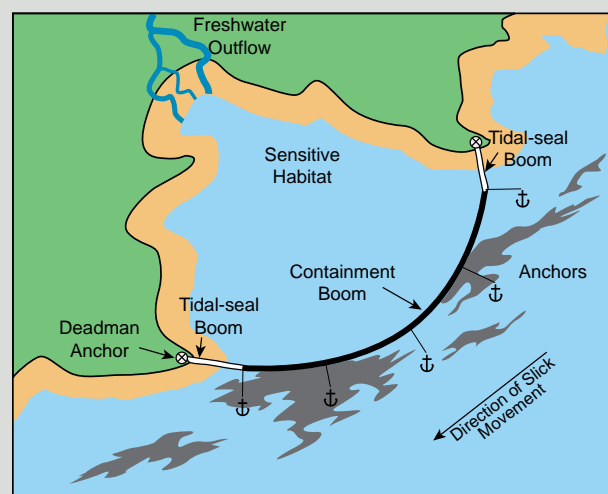
ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-09-01 <div>EX</div>	South Kujulik Bay a. Lat. 56° 33.97'N Lon. 157°53.22'W b. Lat. 56° 33.43'N Lon. 158°58.29'W c. Lat. 56° 32.01'N Lon. 158°08.04'W d. Lat. 56° 33.18'N Lon. 158°07.62'W e. Lat. 56° 34.30'N Lon. 158°05.32'W f. Lat. 56° 35.37'N Lon. 158°02.98'W g. Lat. 56° 36.16'N Lon. 158°01.20'W h. Lat. 56° 36.28'N Lon. 158°00.38'W i. Lat. 56° 38.27'N Lon. 157°55.86'W j. Lat. 56° 33.97'N Lon. 157°38.81'W	Passive Recovery Survey and identify the drainages prior to deployment. Place passive recovery across the channels of the streams and drainages in the area near South Kujulik Bay	Place and anchor sections of snare line or sorbent boom across the channels of streams in South Kujulik Bay. Replace as necessary to maximize the recovery. Boom Length: <div>a. 600 ft b. 150 ft c. 200 ft d. 100 ft e. 200 ft f. 100 ft g. 150 ft h. 150 ft i. 150 ft j. 100 ft</div>	Deployment Equipment 1900 ft. snare line or sorbent boom 10 ea. small anchor systems 20 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 2 ea. vessel crew/general techs	Chignik	Via marine waters Chart 16566	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl concentration Habitat- exposed rocky shore, marsh, exposed tidal flats Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNRR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-09-02 <div>FO-S</div>	South Kujulik Bay Nearshore waters in the general area of: Lat. 56° 34.69'N Lon. 157°53.73'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of South Kujulik Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the South Kujulik Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16566	Same as S-09-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.



An example of the *Passive Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.

Map Legend

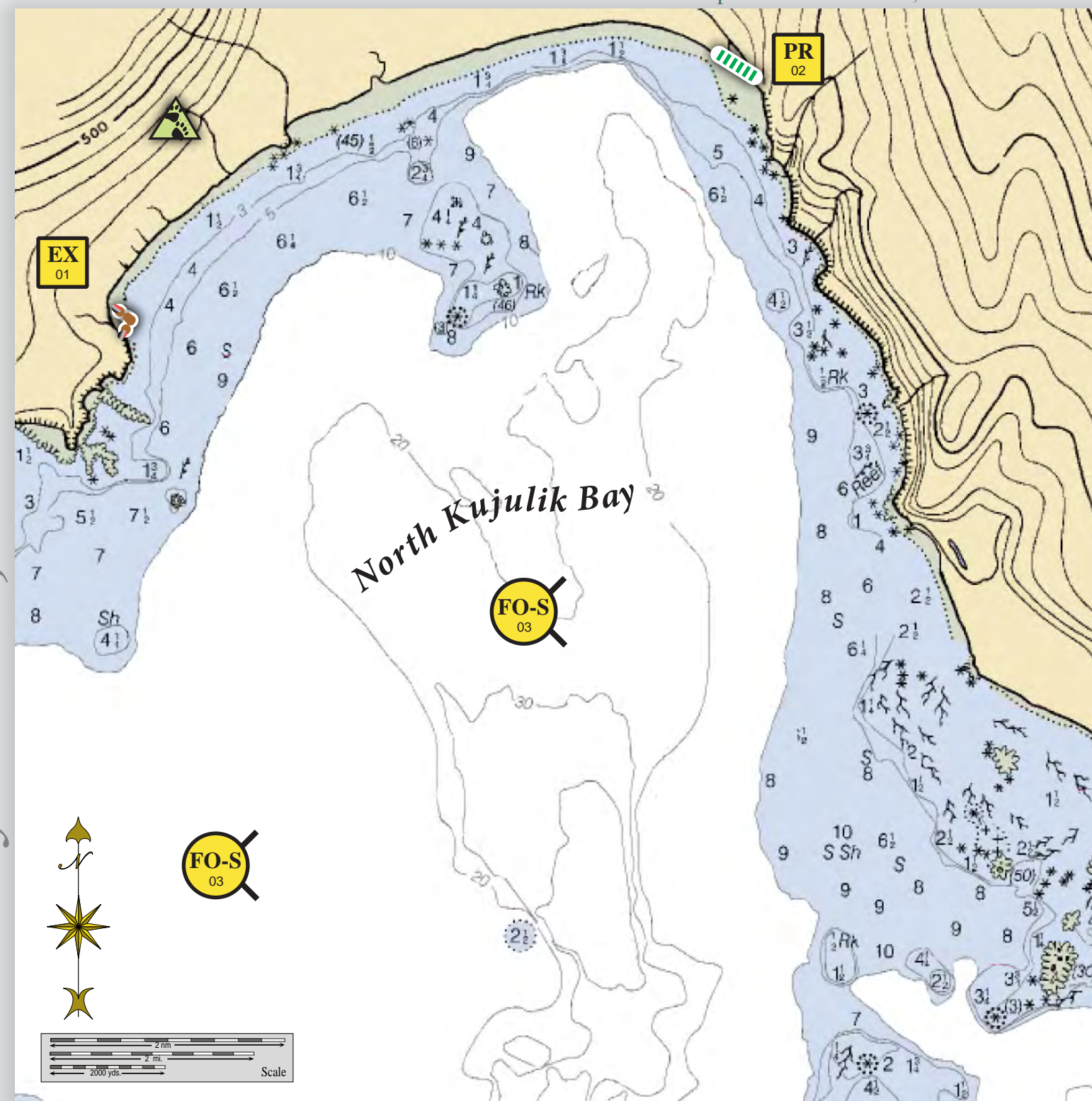
FO-S Free-oil Recovery	 Fast-water Boom
EX Exclusion Booming	 Tidal-seal Boom
PR Passive Recovery	 Snare or Sorbent Boom
SR Shoreside Recovery	<div style="position: absolute; top: 5px; left: 5px; width: 10px; height: 10px; background-color: black;"></div> Bears in Area, Guards Recommended

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

North Kujulik Bay, BB-S10

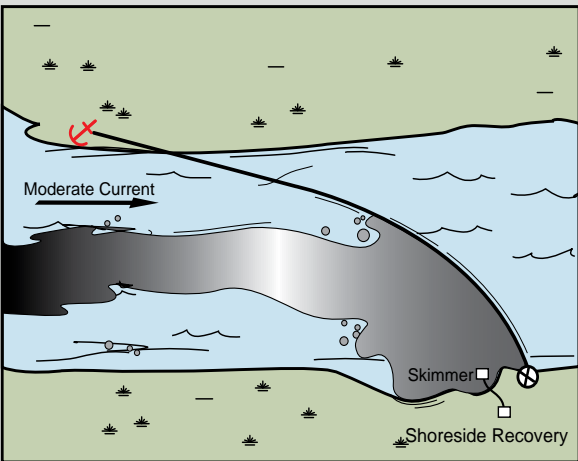
Center of map at 56° 38.68' N Lat., 157° 46.98' W Lon.



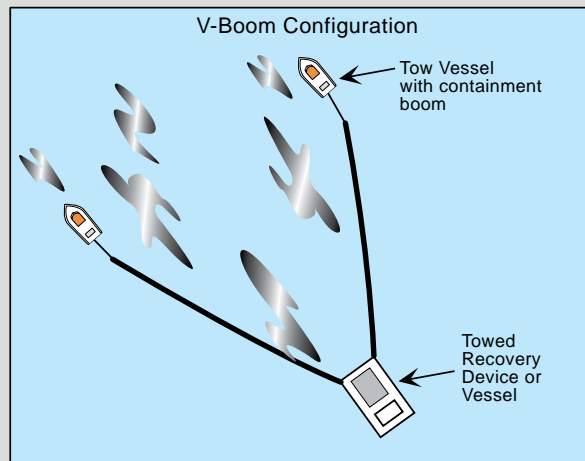
This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-10-01 <div>EX</div>	North Kujulik Bay Lat. 56° 40.53’N Lon. 157°44.30’W	Exclusion Exclude oil from impacting the streams in Southern Kujulik Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. Place fast-water boom in a chevron pattern in front of the entrance to the streams. Complete the arrays by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Boom Length: a. 500 ft b. 150 ft	Deployment Equipment 650 ft. fast-water boom 120 ft. tidal seal boom 2 ea. anchor systems 4 ea. anchor stakes Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 5 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 3 ea. vessel crew/general techs	Chignik	Via marine waters Chart 16566	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird nesting Marine mammals- sea otters Habitat- exposed rocky shore, marsh, exposed tidal flats Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-10-02 <div>PR</div>	North Kujulik Bay Lat. 56° 39.33’N Lon. 157°50.08’W	Passive Recovery Survey and identify the additional drainages into the bay prior to deployment. Place passive recovery across the channel of the stream and drainages in the Kujulik Bay.	Place and anchor 100 ft. sections of snare line or sorbent boom across the channels of streams in Kujulik Bay. Replace as necessary to maximize the recovery.	Deployment Equipment 100 ft. snare line or sorbent boom 1 ea. small anchor systems 2 ea. anchor stakes (Adjust equipment to reflect survey findings) Vessels/Personnel/Shift Same as S-10-01 Tending Vessels/Personnel/Shift Same as S-10-01	Chignik	Via marine waters Chart 16566	Same as S-10-01	Vessel master should have local knowledge.

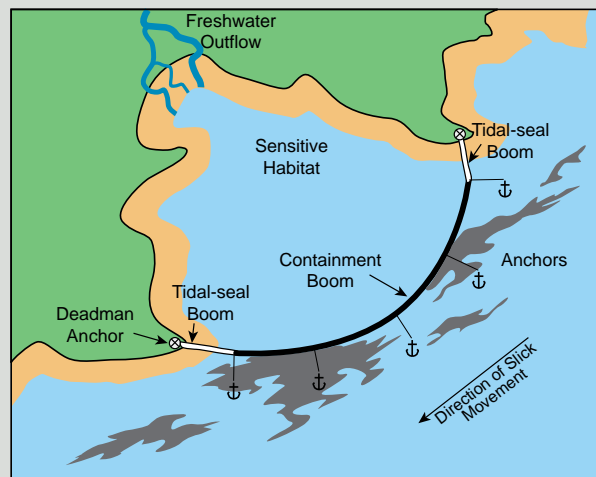
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Bristol Bay Subarea Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_bb.htm.



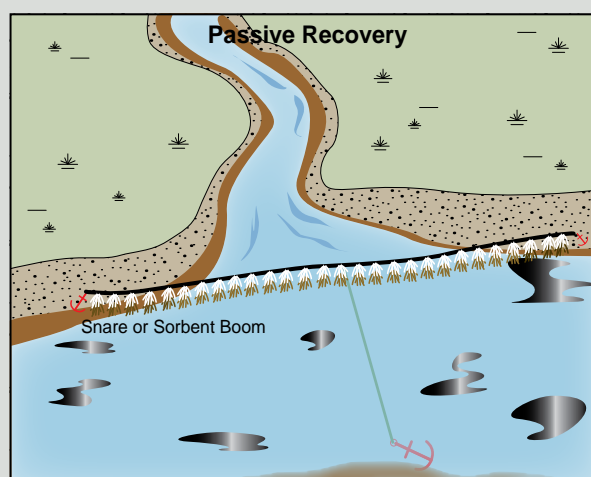
An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Passive Recovery Tactic*. Actual deployment should be adjusted for local conditions.

Map Legend

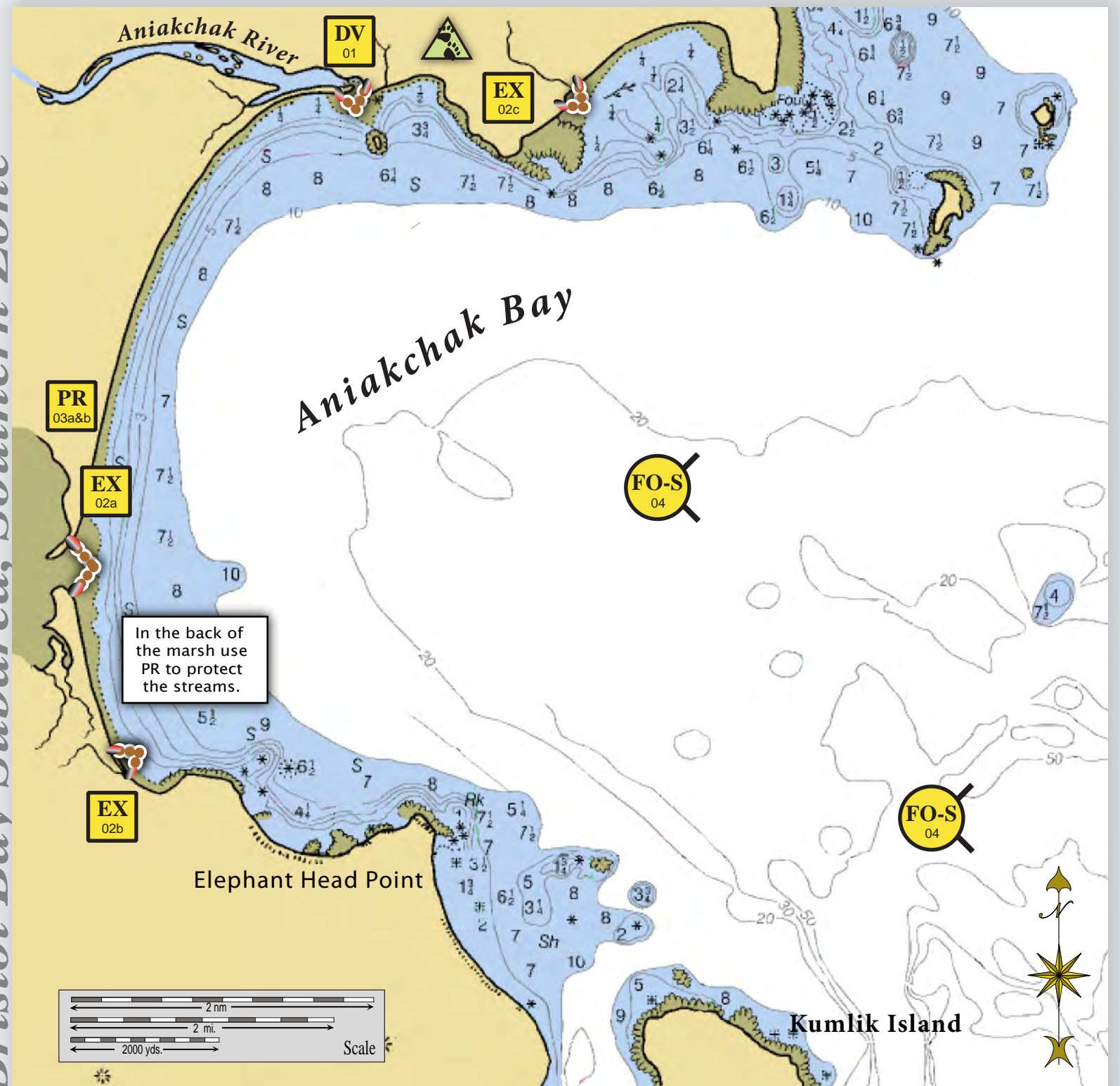
	Free-oil Recovery		Shoreside Recovery
	Passive Recovery		Fast-water Boom
	Exclusion Booming		Tidal-seal Boom
	Diversion Booming		Bears in Area, Guards Recommended

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

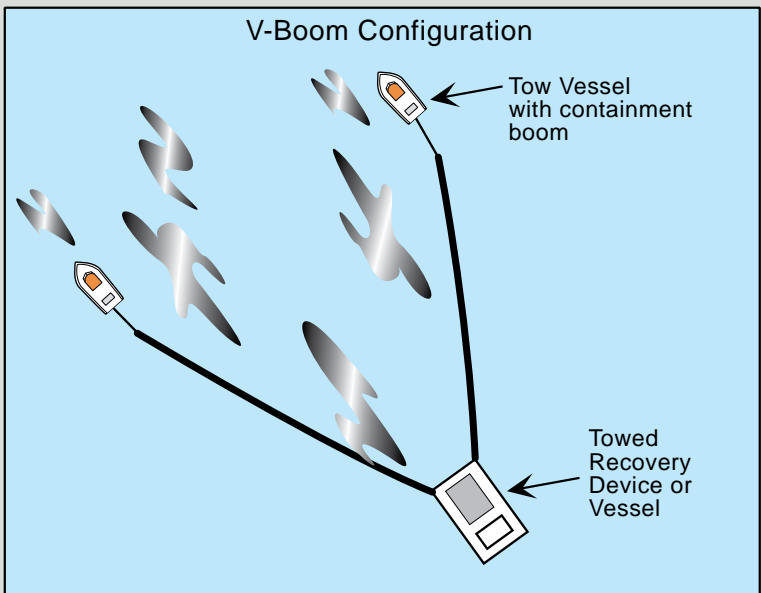
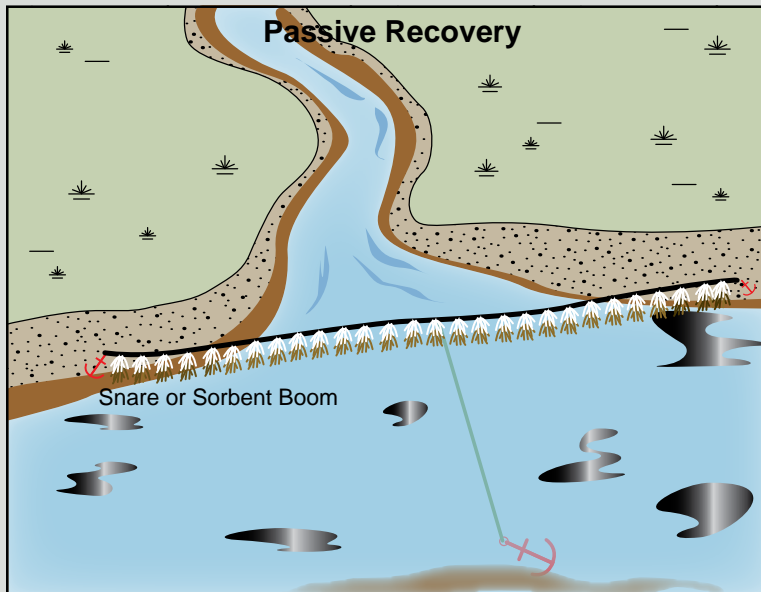
Aniakchak Bay, BB-S11

Center of map at 56° 42.84' N Lat., 157° 31.83' W Lon.



This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-11-01 <div>DV</div>	Aniachak River Lat. 56° 45.79’N Lon. 157°30.61’W	Divert and Collect Divert oil to shore side collection locations on the spit that forms in front of the river.	Deploy anchors and boom with skiffs (class 6). Cascade 600 ft. of fast-water boom in 300 ft. lengths extending from the spit to the shore at the proper angle to divert incoming oil to the collection site. Complete the shore side boom with 60 ft. of tidal seal boom. Set up shore-side recovery and tend throughout the tide	Deployment Equipment 600 ft. fast-water boom 60 ft. tidal seal boom 5 ea. anchor systems 4 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew/general techs 2 ea. skilled techs Tending Vessels 1 ea. class 6 Personnel/Shift 2 ea. vessel crew/general techs 1 ea. skilled techs	Vessel Platform	Via marine waters Chart 16568	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird concentration Marine mammals – sea otters Habitat- gravel beaches, marsh Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-11-02 <div>EX</div>	Aniachak Bay a. Lat. 56° 42.47’N Lon. 157°33.63’W b. Lat. 56° 40.46’N Lon. 157°32.36’W c. Lat. 56° 45.66’N Lon. 157°26.88’W	Exclusion Exclude oil from impacting the streams in Aniachak Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. Place fast-water boom in a chevron pattern in front of the entrance to the streams. Complete the arrays by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Boom Length: a. 1500 ft b. 350 ft c. 300 ft	Deployment Equipment 2150 ft. fast-water boom 360 ft. tidal seal boom 10 ea. anchor systems 12 ea. anchor stakes Vessels/Personnel/Shift Same as S-11-01 Tending Vessels/Personnel/Shift Same as S-11-01	Vessel Platform	Via marine waters Chart 16568	Same as S-11-01	Vessel master should have local knowledge. Surveyed: not yet Tested: not yet
S-11-03 <div>PR</div>	Aniachak Bay Black Creek a. Lat.56° 43.36’N Lon.157°05.97’W Wolverine Creek b. Lat.56° 41.39’N Lon.157°34.04’W	Passive Recovery Survey the area prior to deployment. Place passive recovery across entrances to the identified streams in the Aniachak Bay Lagoon.	Place and anchor snare line or sorbent boom across the streams in Aniachak Bay. Replace as necessary to maximize the recovery. Boom Length: a. 250 ft b. 200 ft	Deployment Equipment 450 ft. snare line or sorbent boom 2 ea. anchor systems 4 ea. anchor stakes systems Vessels/Personnel/Shift Same as S-11-01 Tending Vessels/Personnel/Shift Same as S-11-01	Vessel Platform	Via marine waters Chart 16568	Same as S-11-01	Vessel master should have local knowledge. Title 41 permitting required from ADNR.
S-11-04 <div>FO-S</div>	Aniachak Bay Nearshore waters in the general area of: Lat. 56° 42.84’N Lon. 157°31.83’W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Aniachak Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Aniachak Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16568	Same as S-11-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.



Map Legend

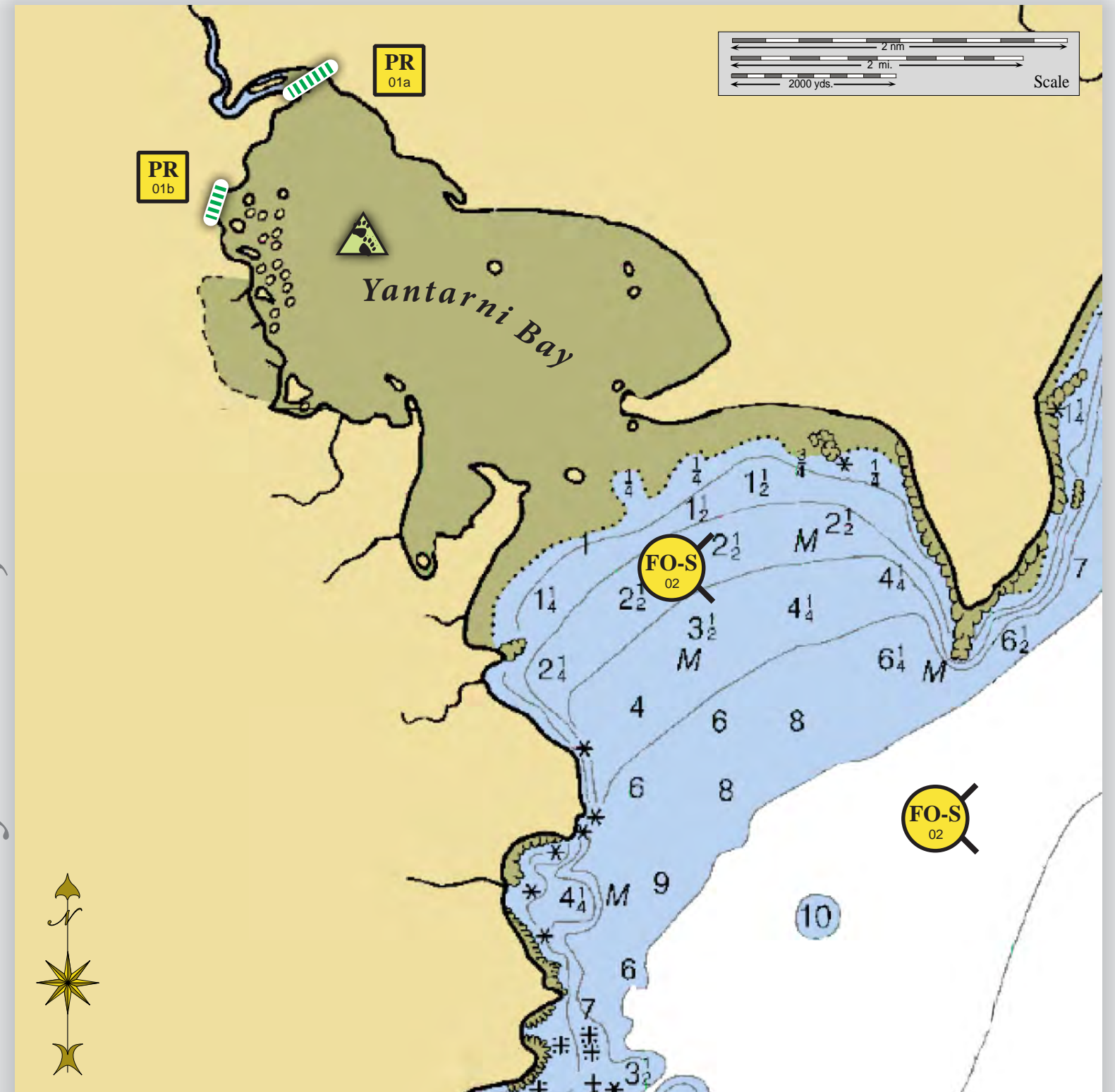
- FO-S** Free-oil Recovery
- PR** Passive Recovery
- Snare or Sorbent Boom
- Bears in Area, Guards Recommended

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

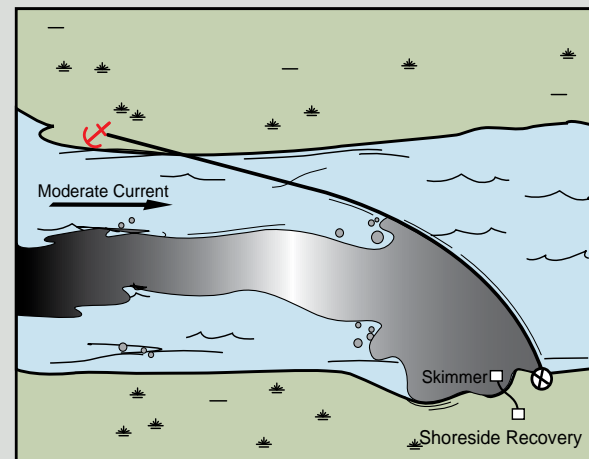
Yantarni Bay, BB-S12

Center of map at 56° 49.37' N Lat., 157° 07.47' W Lon.

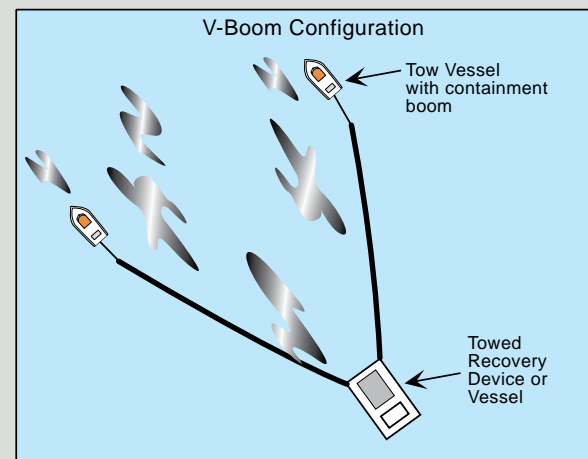


This is not intended for navigational use.

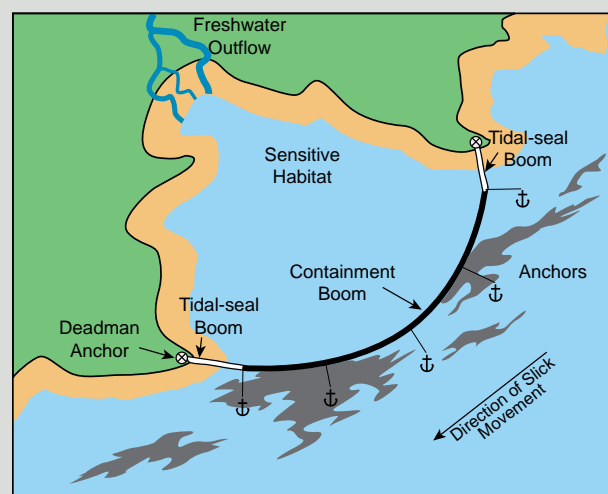
ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-12-01 <div>PR</div>	Yantarni Bay a. Lat. 56° 51.41’N Lon. 157°11.10’W b. Lat. 56° 50.53’N Lon. 157°11.37’W	Passive Recovery Survey the area prior to deployment. Place passive recovery across entrances to the identified streams at the back of Yanitari Bay.	Place and anchor snare line or sorbent boom across the streams in Aniachak Bay. Replace as necessary to maximize the recovery. Boom Length: <div>a. 400 ft</div> <div>b. 200 ft</div>	Deployment Equipment 600 ft. snare or sorbent boom 4 ea. anchor systems 8 ea. anchor stakes Vessels 1 ea. class 3 1 ea. class 6 1 ea. helicopter (option) Personnel/Shift 5 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 3 ea. vessel crew/general techs	Chignik	Via marine waters Chart 16568	Fish- intertidal spawning-salmon (June-Sept.) Birds-waterfowl, seabird and shorebird concentration, seabird nesting Marine mammals – sea otters Habitat- gravel beaches, marsh, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. A seasonal fishing lodge may provide support. Surveyed: not yet Tested: not yet
S-12-02 <div>FO-S</div>	Yantarni Bay Nearshore waters in the general area of: Lat. 56° 49.37’N Lon. 157°07.47’W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Yantarni Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Yantarni Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16568	Same as S-12-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.



An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.

Map Legend

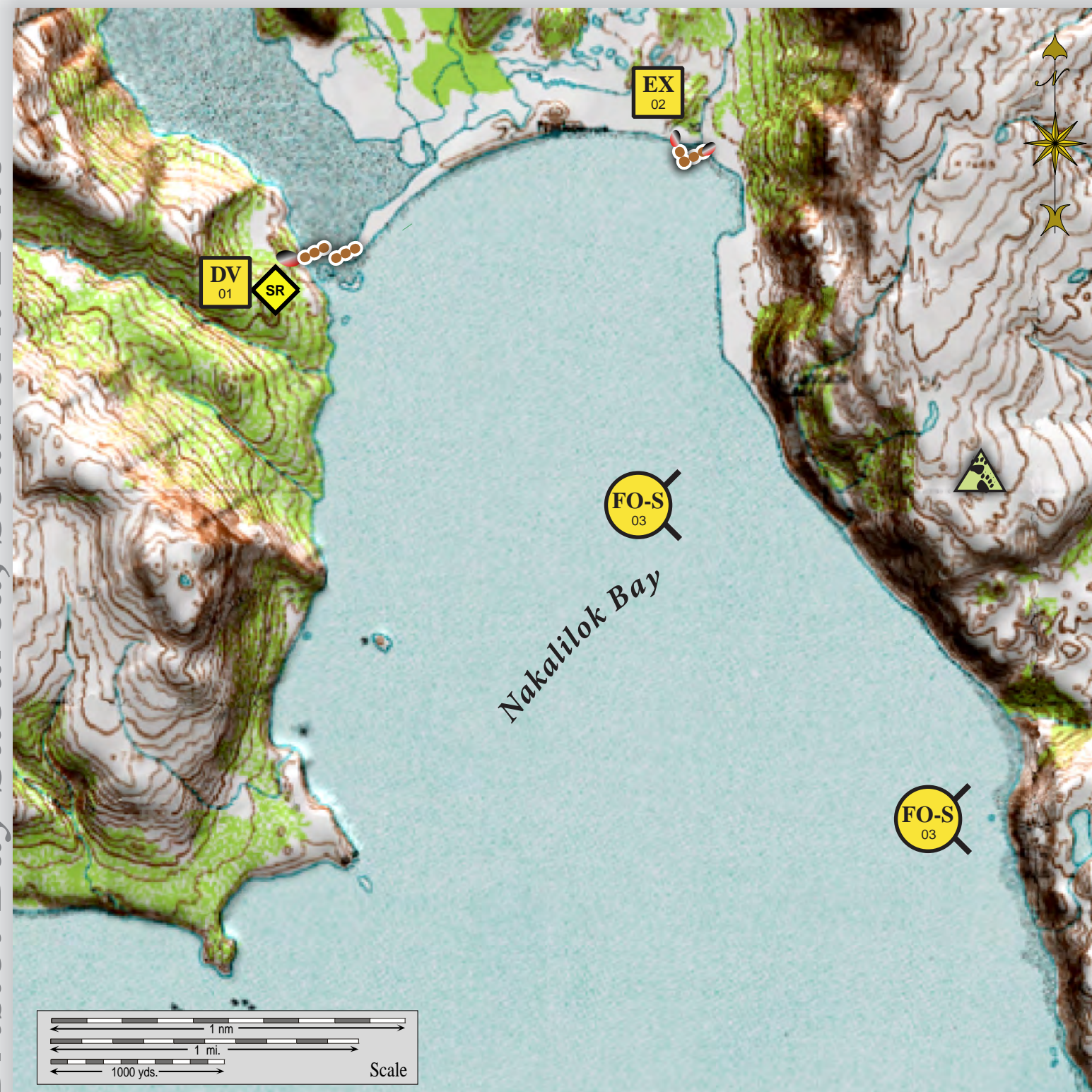
<div style="border: 1px solid black; border-radius: 50%; padding: 2px; margin-bottom: 5px;">FO-S</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">EX</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">DV</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">SR</div>	<p>Free-oil Recovery</p> <p>Exclusion Booming</p> <p>Diversion Booming</p> <p>Shoreside Recovery</p>	<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 5px; background-color: orange; border-radius: 2px; margin-right: 5px;"></div> <p>Fast-water Boom</p> </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: linear-gradient(to right, red, white, red); border-radius: 5px; margin-right: 5px;"></div> <p>Tidal-seal Boom</p> </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: yellow; border: 1px solid black; margin-right: 5px; position: relative;"> ▲ </div> <p>Bears in Area, Guards Recommended</p> </div>
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Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

Nakalilok Bay, BB-S13

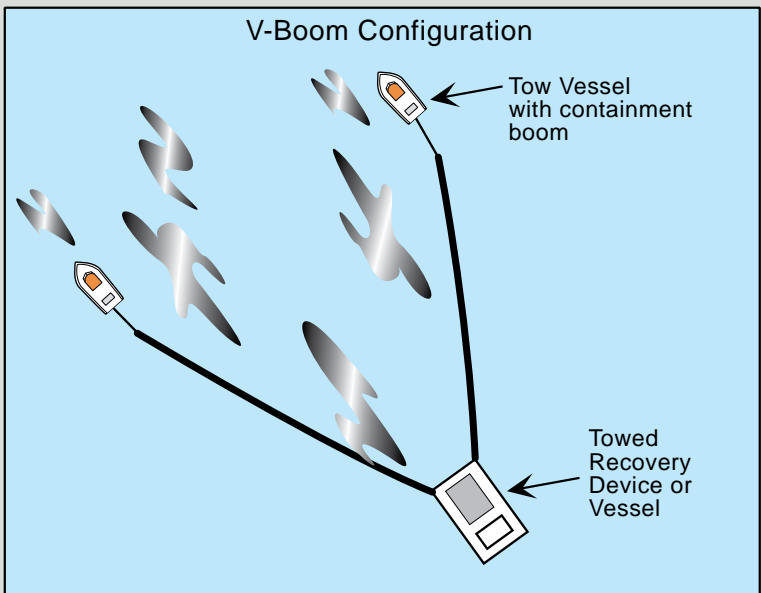
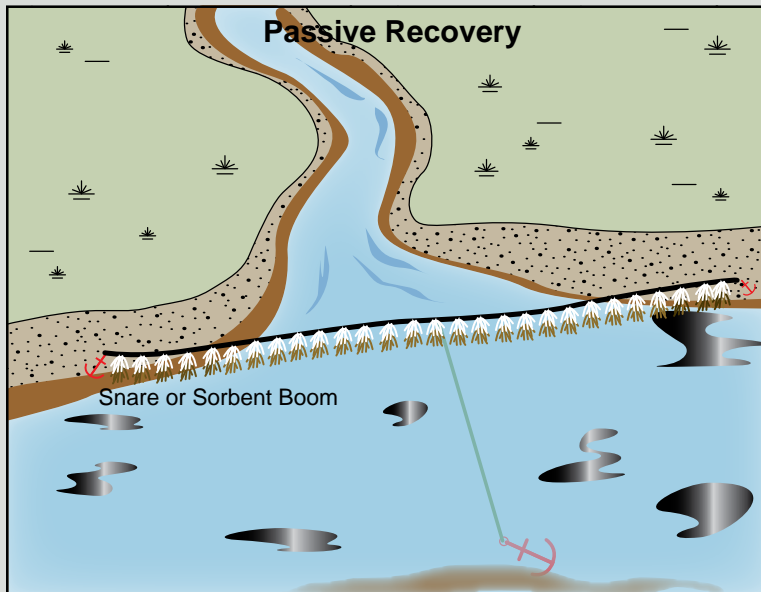
Center of map at 56° 52.14' N Lat., 156° 55.18' W Lon.



This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-13-01 <div>DV</div>	Nakalilok Bay Lat. 56° 57.53’N Lon. 156°56.34’W	Divert and Collect Divert oil to shore side collection location on the shore of the Nakalilok Bay.	Deploy anchors and boom with skiffs (class 6). Place 1200 ft of fast-water boom at the proper angle to divert incoming oil to the collection sites. Complete the array with 60 ft. of tidal seal boom on the shore that will be used as a collection site. Set up shore-side recovery and tend throughout the tide.	Deployment Equipment 1200 ft. fast-water boom 60 ft. tidal seal boom 7 ea. anchor systems 4 ea. anchor stakes 1 ea. shore-side recovery systems Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 5 ea. vessel crew/general techs 2 ea. response techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 4 ea. vessel crew/general techs 1 ea. skilled tech	Vessel Platform	Via marine waters Chart 16658	Fish- intertidal spawning- salmon (June-Sept.), Marine mammals- sea otters Habitat- exposed tidal flats, gravel beaches, marsh, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. Take precautions to protect the shoreline as outlined in the Alaska STAR Manual. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-13-02 <div>EX</div>	Nakalilok Bay Lat. 56° 57.97’N Lon. 156°53.34’W	Exclusion Exclude oil from impacting the stream in Nakalilok Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. Place fast-water boom in a chevron pattern in front of the entrance to the stream. Complete the arrays by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide.	Deployment Equipment 300 ft. fast-water boom 120 ft. tidal seal boom 3 ea. anchor systems 4 ea. anchor stakes Vessels/Personnel/Shift Same as S-13-01 Tending Vessels/Personnel/Shift Same as S-13-01	Vessel Platform	Via marine waters Chart 16568	Same as S-13-01	Vessel master should have local knowledge. Title 41 permitting required from ADNR. A seasonal fishing lodge may provide support. Surveyed: not yet Tested: not yet
S-13-03 <div>FO-S</div>	Nakalilok Bay Nearshore waters in the general area of: Lat. 58° 52.14’’N Lon. 159°55.18’W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Nakalilok Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Nakalilok Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16658	Same as S-13-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

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



Map Legend

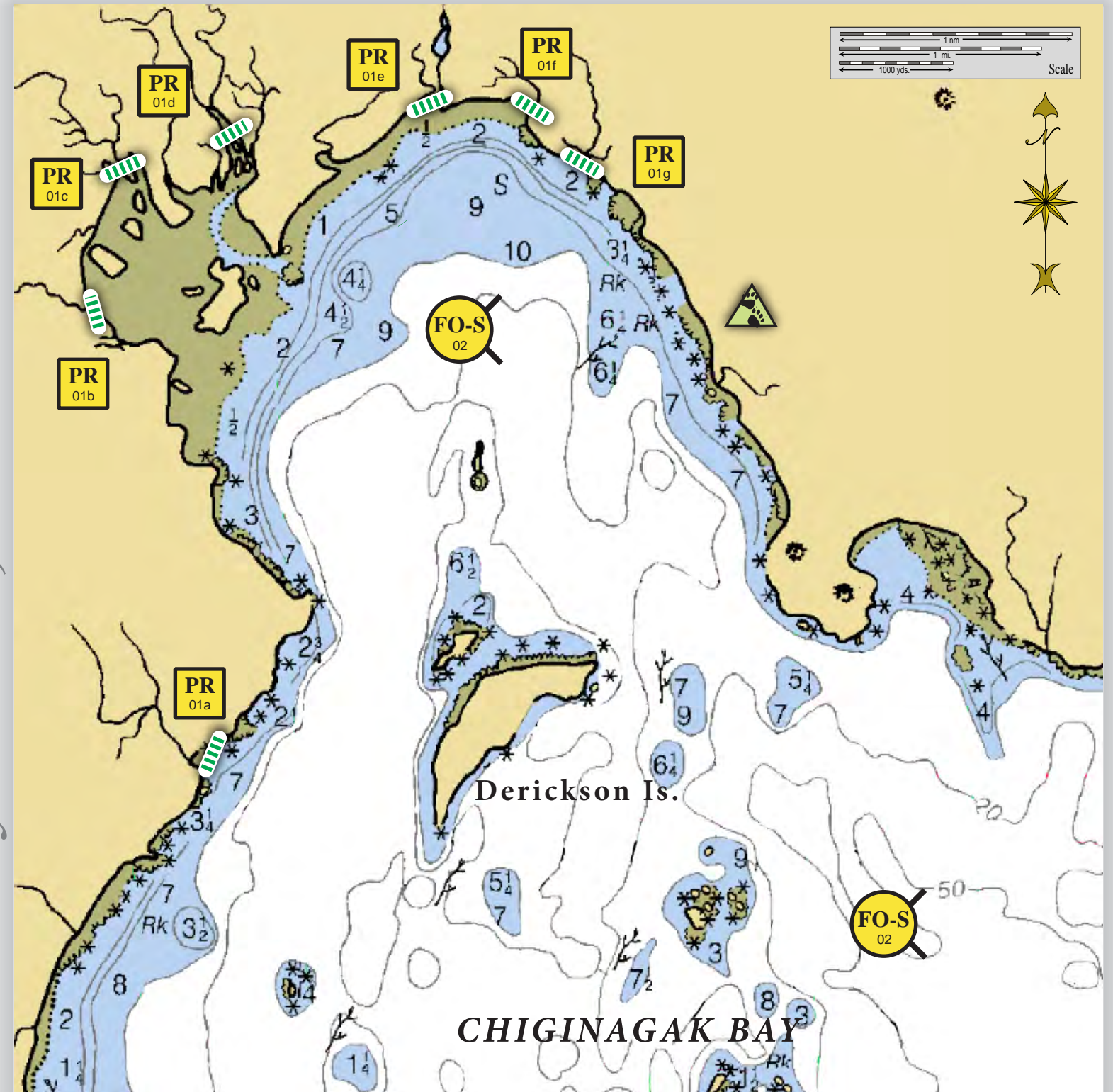
- FO-S** Free-oil Recovery
- PR** Passive Recovery
- Snare or Sorbent Boom
- Bears in Area, Guards Recommended

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

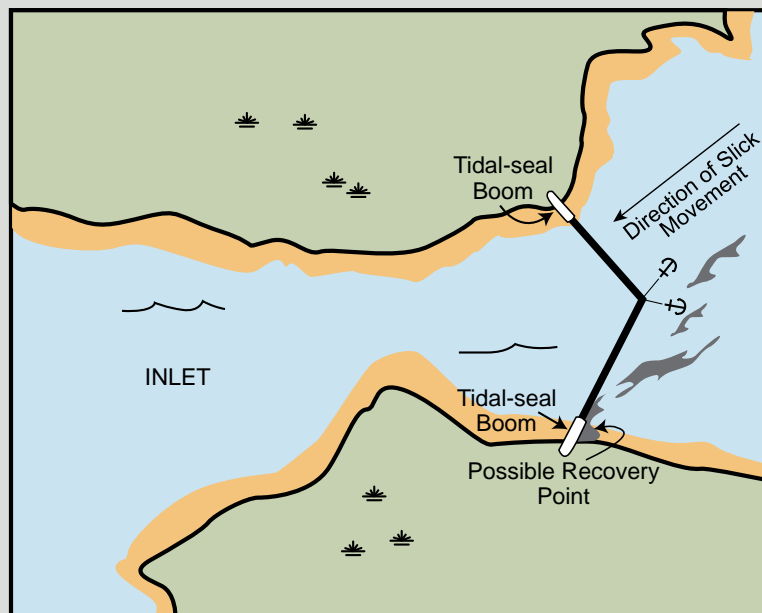
Chiginagak Bay, BB-S14

Center of map at 56° 59.80' N Lat., 156° 41.70' W Lon.

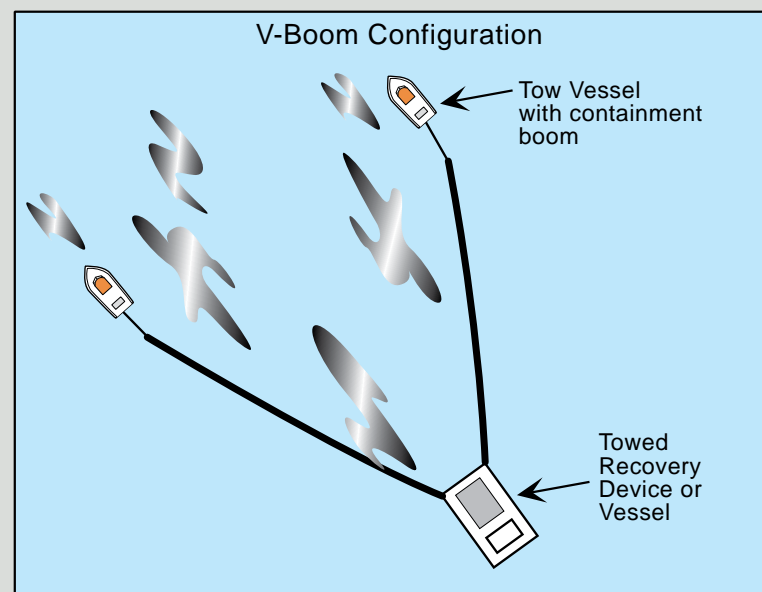


This is not intended for navigational use.

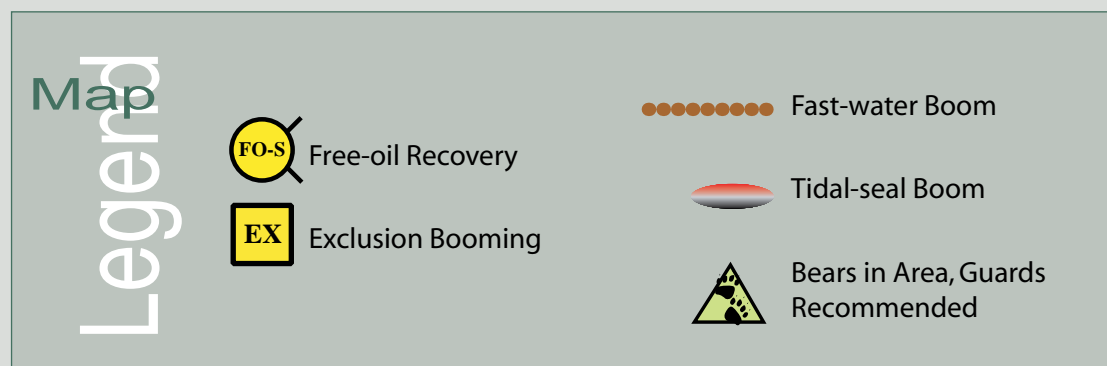
ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-14-01 <div>PR</div>	Chiginagak Bay a. Lat. 56° 59.16’N Lon. 156°45.94’W b. Lat. 57° 01.97’N Lon. 156°46.60’W c. Lat. 57° 02.46’N Lon. 156°45.93’W d. Lat. 56° 02.08’N Lon. 156°44.73’W e. Lat. 56° 02.36’N Lon. 156°43.66’W f. Lat. 56° 02.30’N Lon. 156°43.02’W g. Lat. 56° 00.94’N Lon. 156°41.19’W	Passive Recovery Survey the area prior to deployment. Place passive recovery across entrances to the identified streams in Chiginagak Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. Place and anchor snare line or sorbent boom across the streams in Chiginagak Bay. Replace as necessary to maximize the recovery. Tend throughout the tide. Boom Length: a. 200 ft b. 500 ft c. 200 ft d. 200 ft e. 200 ft f. 200 ft g. 150 ft	Deployment Equipment 1650 ft. snare line or sorbent boom 8 ea. anchor systems 28 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 3 ea. vessel crew/general techs	Vessel Platform	Via marine waters Chart 16568	Fish- intertidal spawning- salmon (June-Sept.) Birds-waterfowl, seabird and shorebird concentration, seabird nesting Marine mammals- sea otters Habitat- gravel beaches, marsh, kelp beds Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNRR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-14-02 <div>FO-S</div>	Chiginagak Bay Nearshore waters in the general area of: Lat. 56° 59.80’N Lon. 156°41.79’W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Chiginagak Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Chiginagak Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16568	Same as S-14-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.

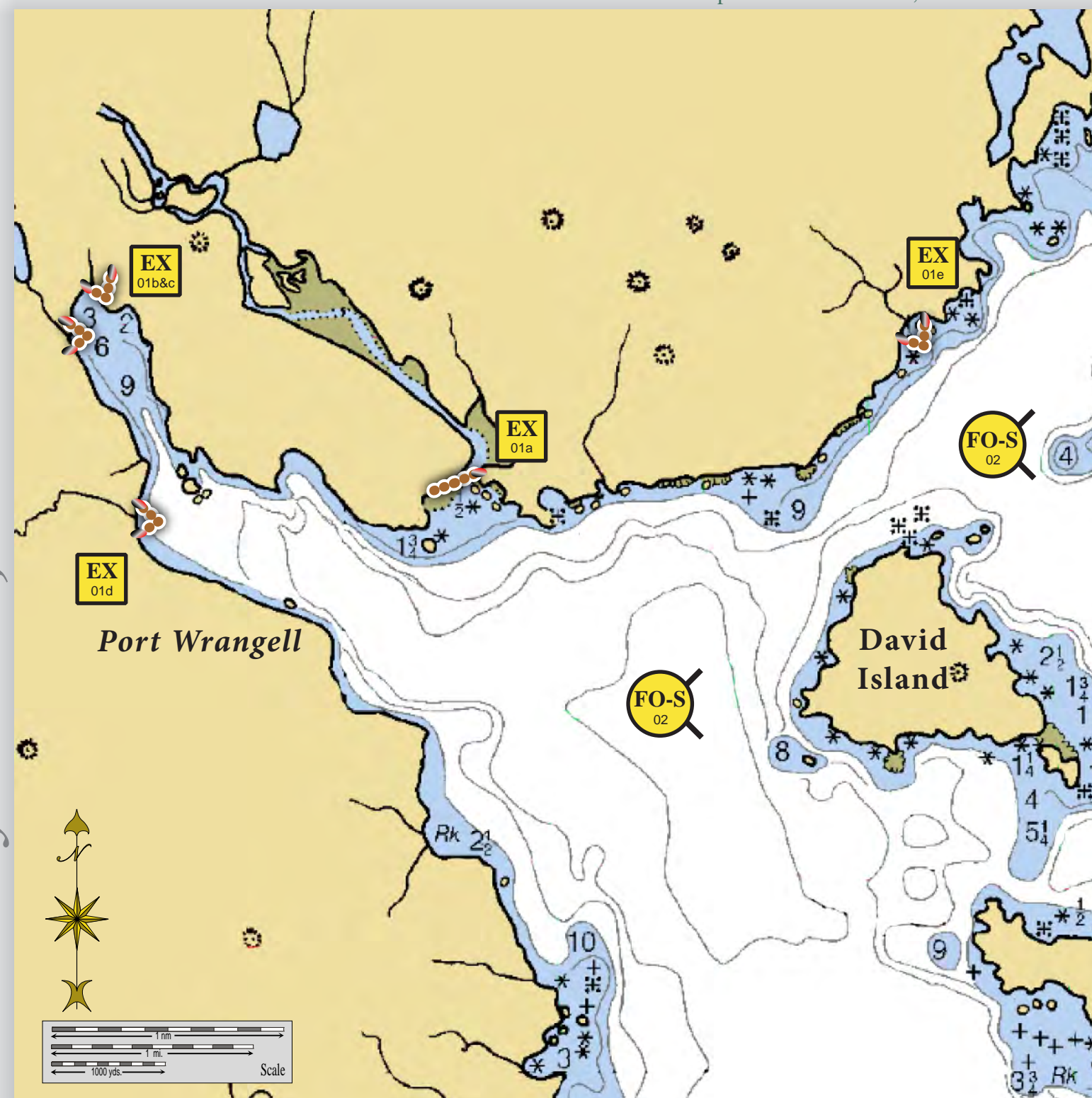


Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Bristol Bay Subarea, Southern Zone

Port Wrangell, BB-S15

Center of map at 58° 46.93' N Lat., 161° 12.12' W Lon.



This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-15-01 <div>EX</div>	Port Wrangell a. Lat. 57° 02.89'N Lon. 156°33.73'W b. Lat. 57° 01.97'N Lon. 156°46.60'W c. Lat. 57° 03.53'N Lon. 156°37.38'W d. Lat. 56° 02.70'N Lon. 156°36.83'W e. Lat. 56° 03.59'N Lon. 156°30.00'W	Exclusion Exclude oil from impacting the streams in Port Wrangell.	Deploy anchors and boom with skiffs (class 6) at high tide. For (a) place fast-water boom across the entrance to the lagoon. Adjust the angle to ensure minimal entrainment. For the remaining strategies, place protected-water boom in a chevron pattern in front of the entrance to the streams. Complete the arrays by placing 60 ft. of tidal seal boom on each leg. Tend throughout the tide. Boom Length: a. 700 ft b. 200 ft c. 200 ft d. 200 ft e. 300 ft	Deployment Equipment 1600 ft. fast-water boom 600 ft. tidal seal boom 8 ea. anchor systems 20 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew/general techs Tending Vessels 1 ea. class 3 1 ea. class 6 Personnel/Shift 3 ea. vessel crew/general techs	Vessel Platform	Via marine waters Chart 16568	Fish- intertidal spawning- salmon (June-Sept.) Birds-waterfowl, seabird and shorebird concentration Marine mammals- sea otters Habitat- gravel beaches, marsh Human use-subsistence, commercial fishing	Vessel master should have local knowledge. A large population of bears are in the area. Bear guard required. Title 41 permitting required from ADNRR. THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE. Discuss with DOI prior to on-site operations. Surveyed: not yet Tested: not yet
S-15-02 <div>FO-S</div>	Port Wrangell Nearshore waters in the general area of: Lat. 57° 00.15'N Lon. 156°42.88'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Port Wrangell depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Port Wrangell. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Chignik	Via marine waters Chart 16568	Same as S-15-01	Vessel master should have local knowledge. Use extreme caution, shallow waters with shifting channels and bars.

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