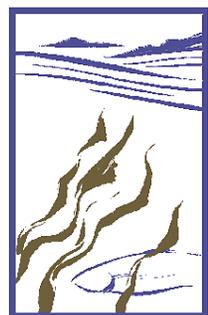


Northwest Straits

Marine Conservation Initiative



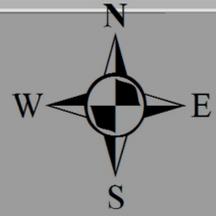
A Local Approach to Protecting and Restoring Marine Resources and Habitats

Northwest Straits Initiative Derelict Fishing Gear Program

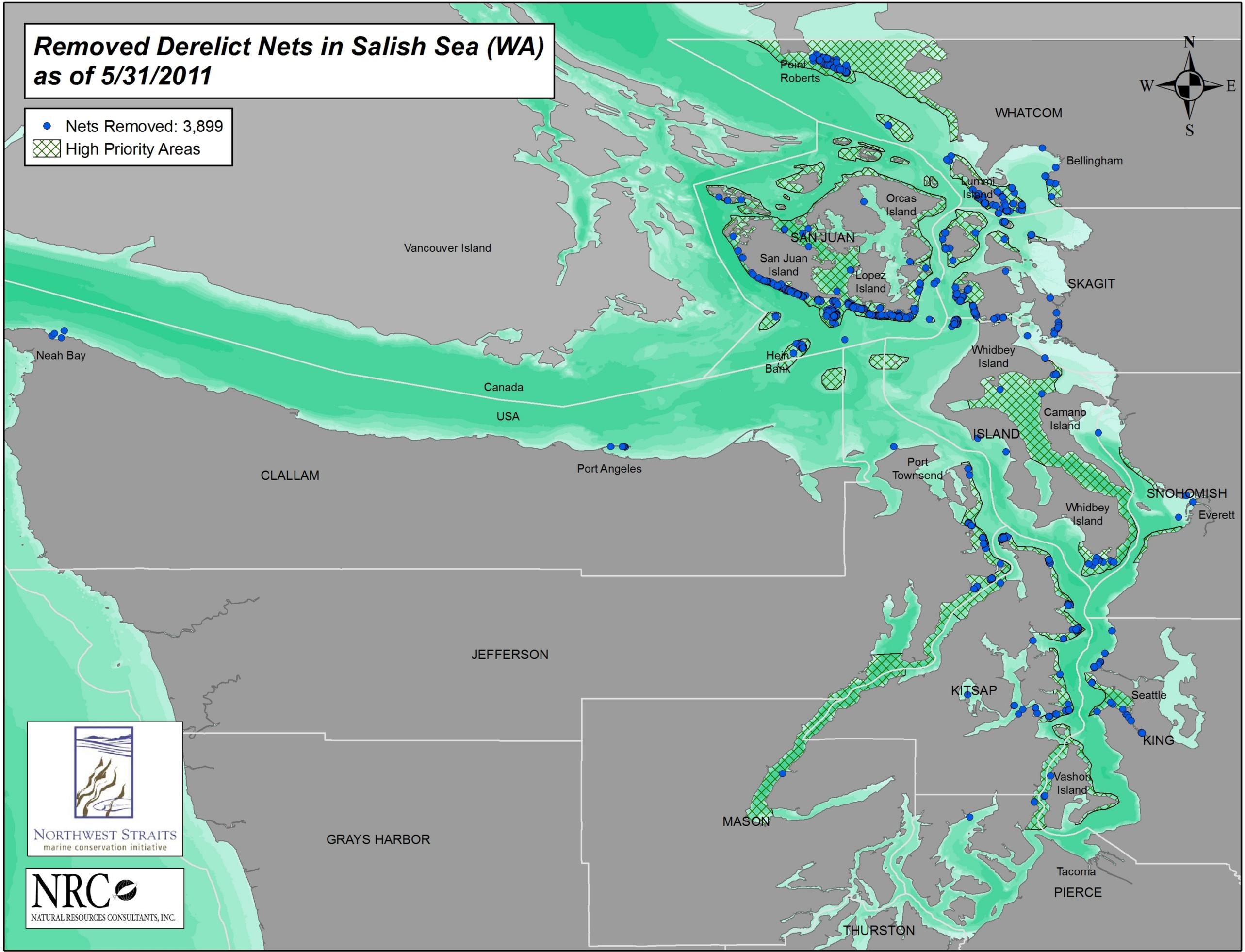
- Identified as priority in 1999
- No-fault approach adopted
- Removal protocols developed
- Removals began in 2002



Removed Derelict Nets in Salish Sea (WA) as of 5/31/2011



- Nets Removed: 3,899
- ▨ High Priority Areas



Number of animals found in removed gear as of May 31, 2011

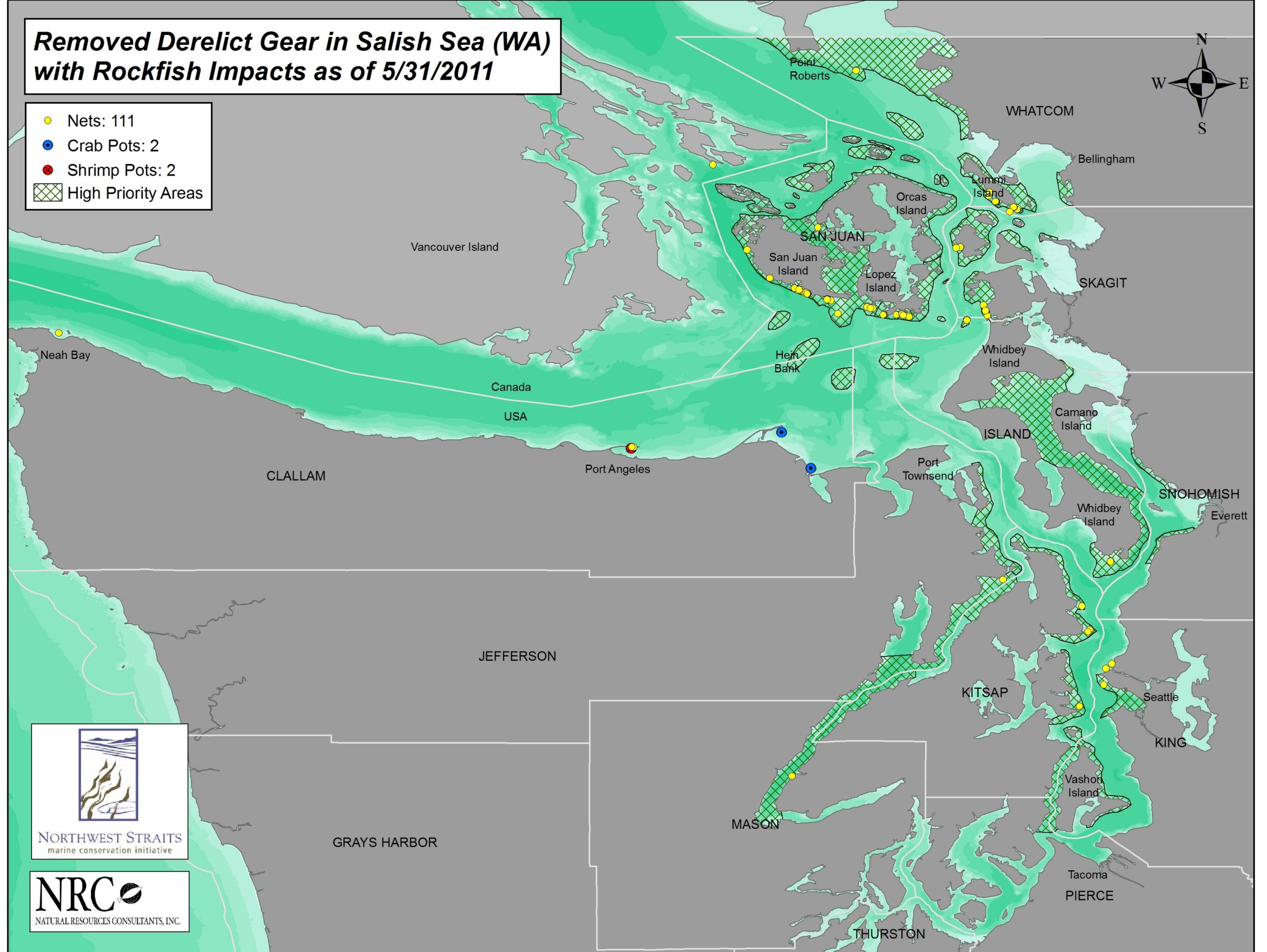
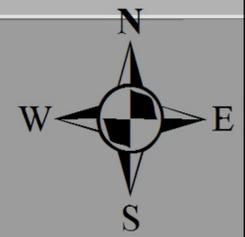
Species Group	Number of Dead	Number of Alive	Total
Bird	813	0	813
Coral	0	0	0
Fish	1,946	467	2,413
Invertebrate	90,496	121,892	212,388
Mammal	46	0	46

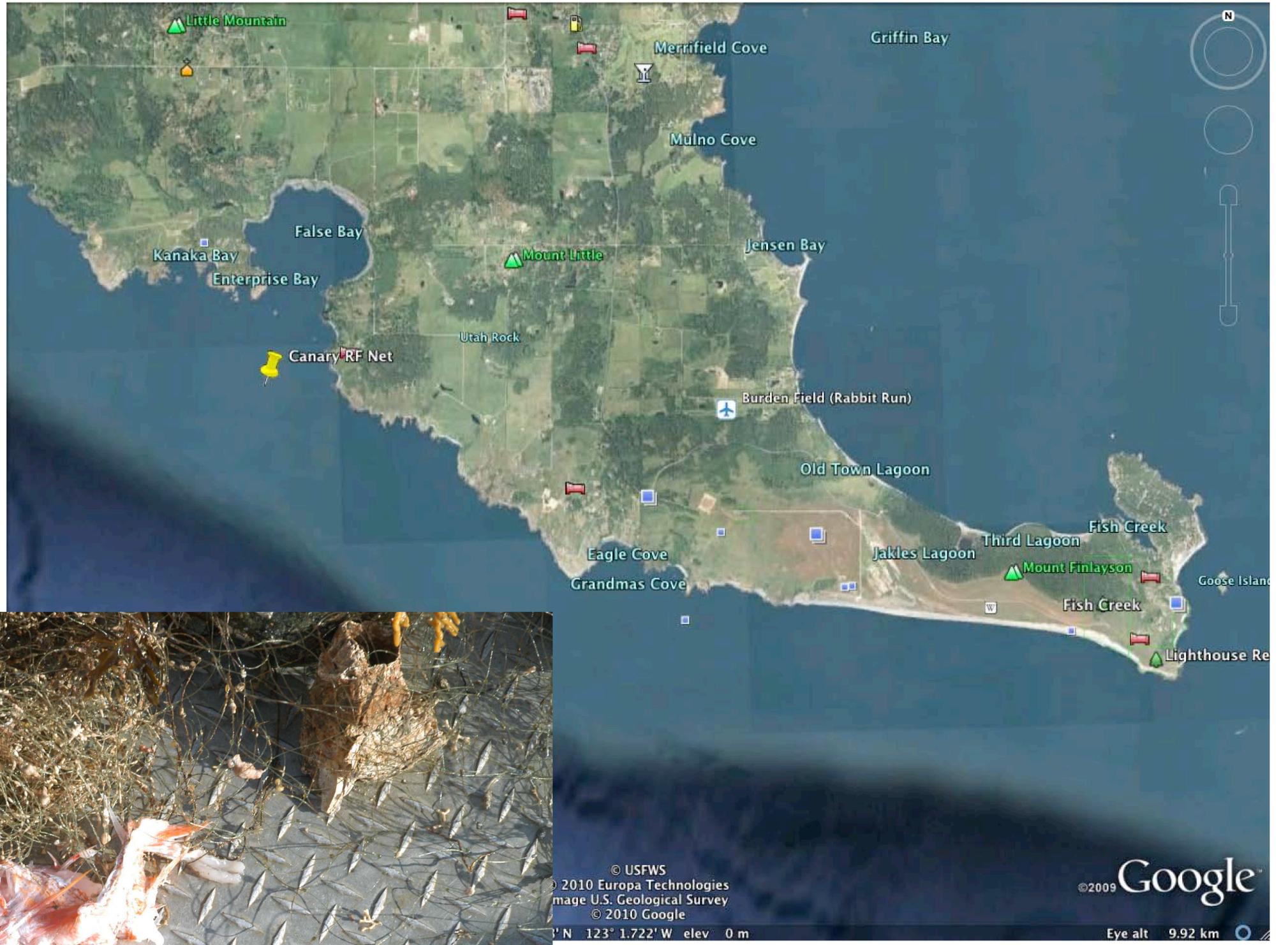
Rockfish Impacts

Species Local Common	Species Scientific	Sum Number of Dead	Sum Number of Alive	Total	Sum of Record Count
black rockfish	Sebastes melanops	59	5	64	12
brown rockfish	Sebastes auriculatus	1	0	1	1
canary rockfish	Sebastes pinniger	1	0	1	1
China rockfish	Sebastes nebulosus	0	1	1	1
copper rockfish	Sebastes caurinus	15	2	17	15
kelp rockfish	Sebastes atrovirens	1	0	1	1
Puget Sound rockfish	Sebastes emphaeus	3	10	13	8
quillback rockfish	Sebastes maliger	29	15	44	41
rockfish unid.	Scorpaenidae sp.	50	31	81	19
rockfish unid.	Sebastes sp.	9	4	13	13
yellowtail rockfish	Sebastes flavidus	2	1	3	3
TOTAL		170	69	239	115

Removed Derelict Gear in Salish Sea (WA) with Rockfish Impacts as of 5/31/2011

- Nets: 111
- Crab Pots: 2
- Shrimp Pots: 2
- High Priority Areas







Group	Daily Catch /3,899 nets	Annual catch /3,899 nets	Total Count in recovered nets	Examples of species found entangled
Marine Mammals	3.32	1,210	46	Harbor porpoise, Harbor seal, river otter
Birds	58.53	21,364	813	Cormorants, grebes, murre, pigeon guillemots
Fish	185.73	67,791	2,413	Canary and other rockfish, salmon, lingcod
Inverts	6,269.81	2,288,479	212,388	Dungeness crab, octopus, geoduck, Puget Sound king crab
Total	6,517.38	2,378,844	215,660	

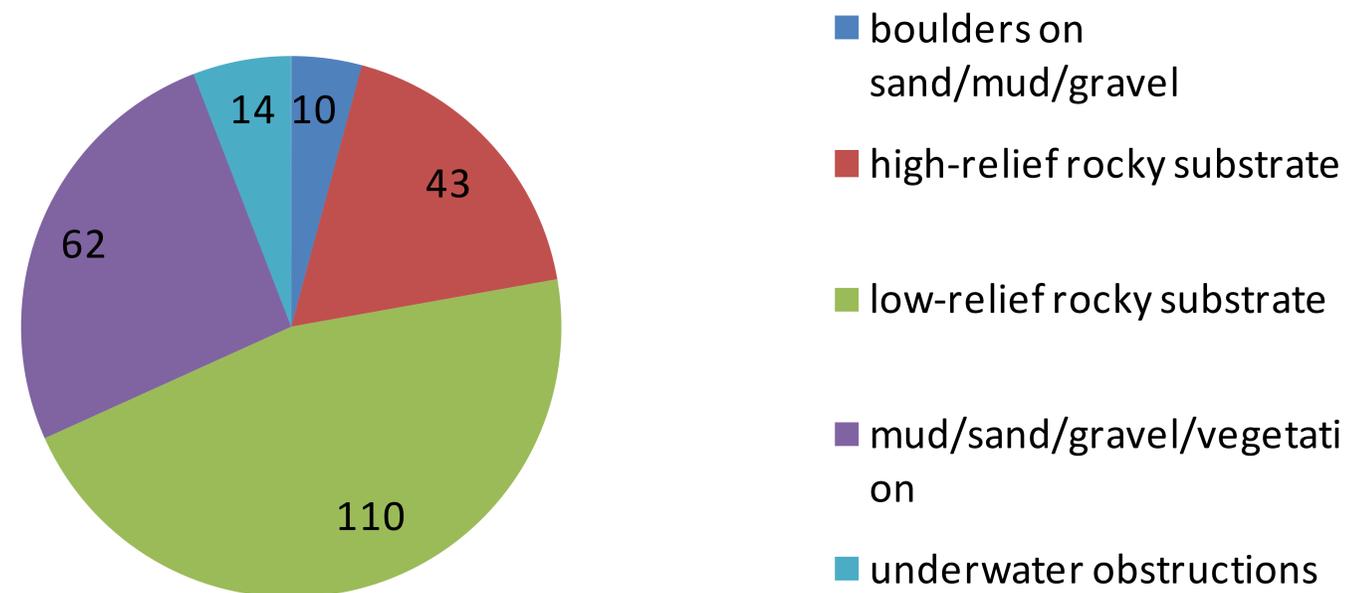


Acres of habitat by type restored as of May 31, 2011

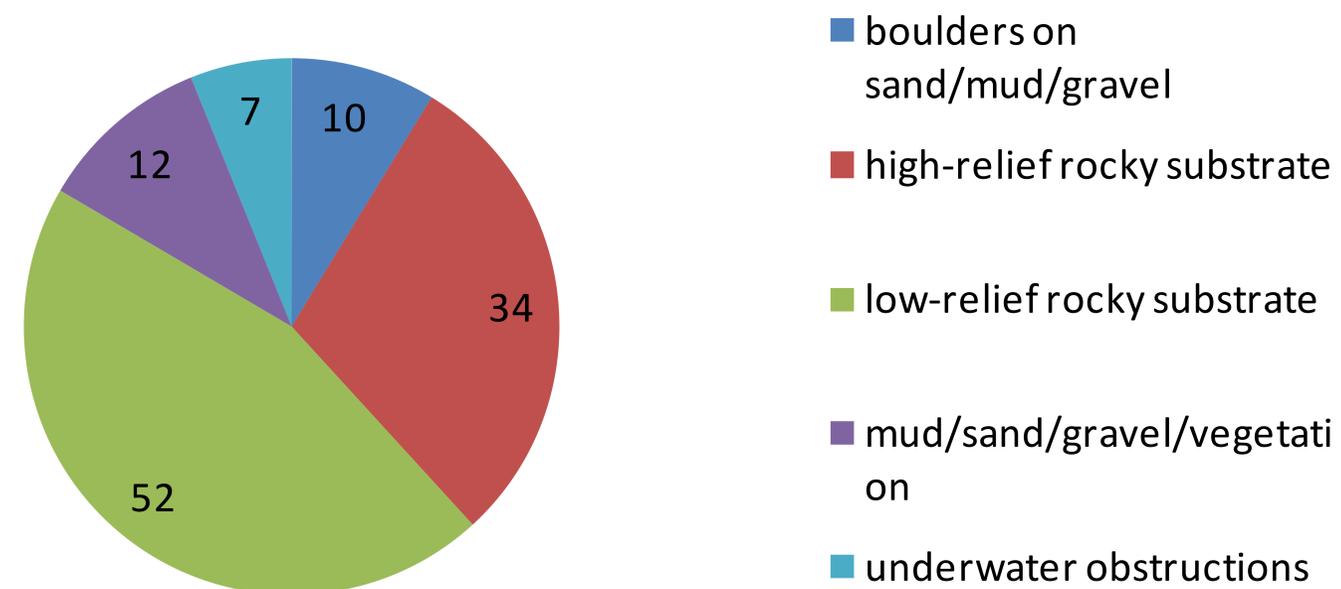
Habitat Type	Total Habitat Area (sq ft) Recovered	Total Habitat Area (acres) Recovered
boulders on sand/mud/gravel	7,416,251	170.25
high-relief rocky substrate	2,606,598	59.84
low-relief rocky substrate	8,253,001	189.46
mud/sand/gravel/vegetation	4,259,757	97.79
underwater obstructions	910,250	20.90
aquatic vegetation	6,000	0.14
Total	23,451,857	538.38



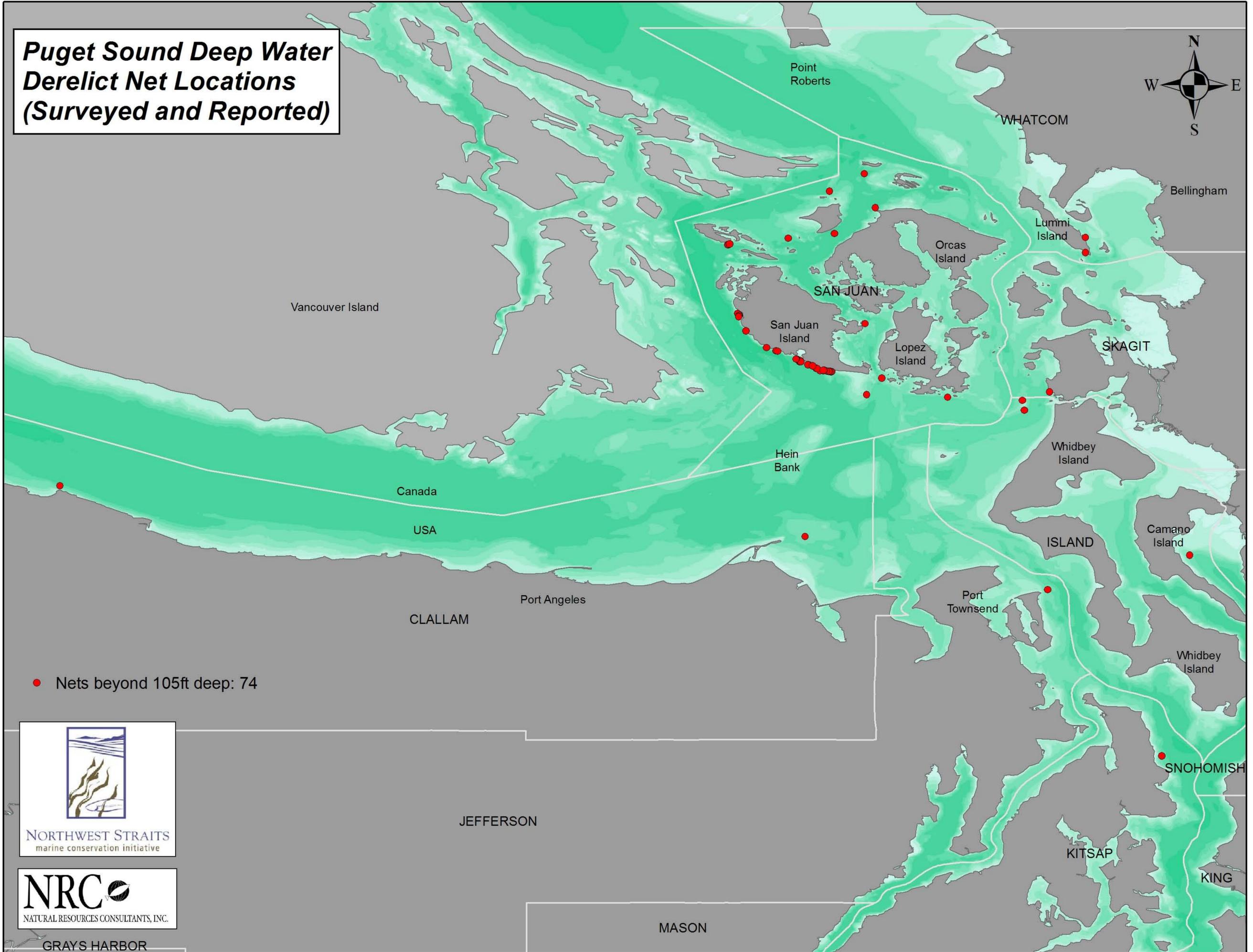
Total rockfish observed in nets by habitat type



Total gear items w/rockfish observed by habitat type



***Puget Sound Deep Water
Derelict Net Locations
(Surveyed and Reported)***



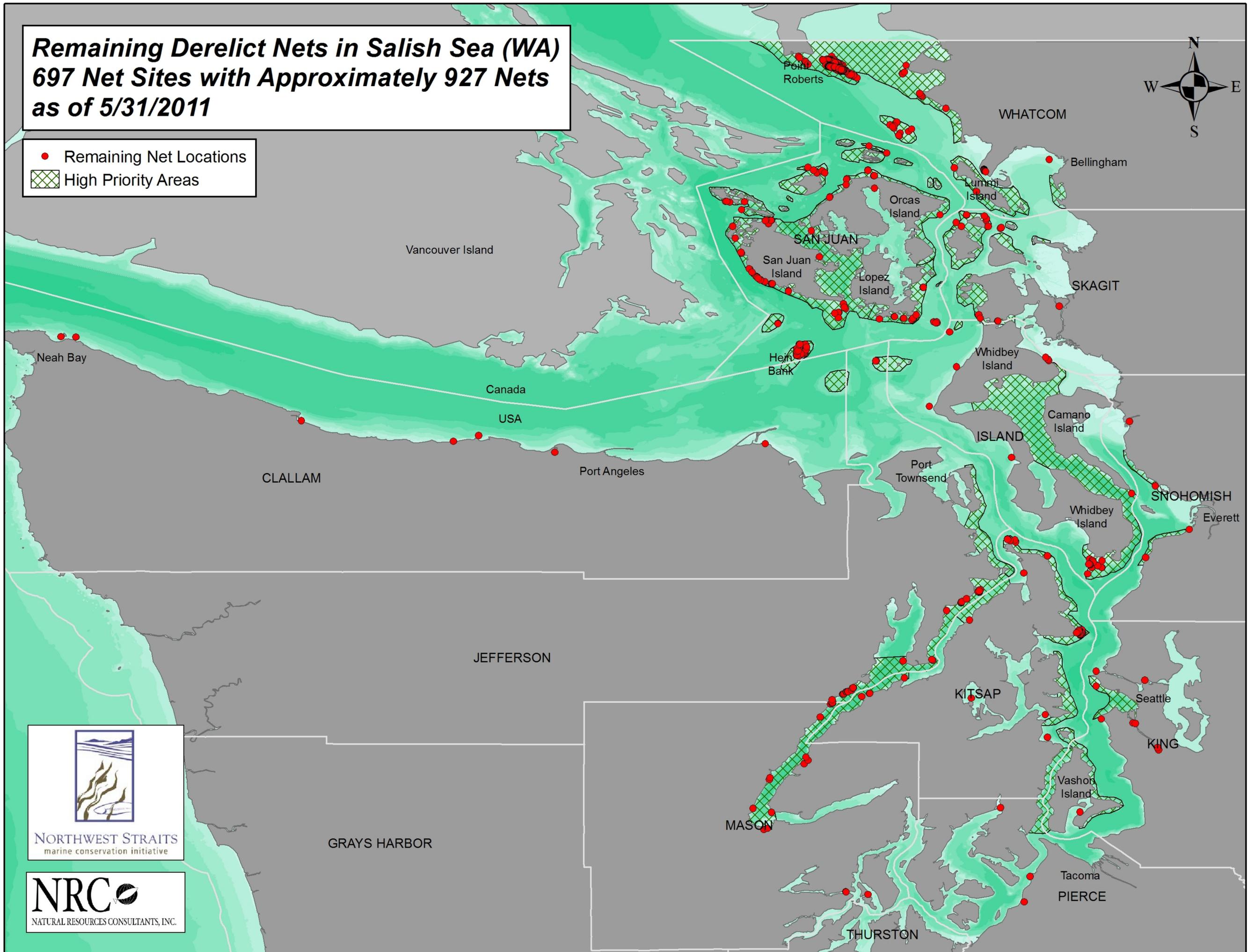
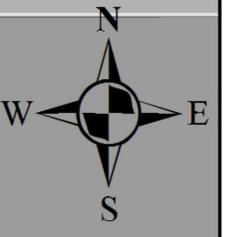
● Nets beyond 105ft deep: 74



GRAYS HARBOR

Remaining Derelict Nets in Salish Sea (WA) 697 Net Sites with Approximately 927 Nets as of 5/31/2011

- Remaining Net Locations
- ▨ High Priority Areas



Long-term impacts of 927 nets



Group	Annually
Marine Mammals	288
Birds	5,079
Fish	16,117
Invertebrates	544,093
Total	565,578

Current Situation

- 927 known nets in shallow waters
- Annual Impacts >1,600 rockfish
- 90 Acres of habitat impaired
- About 74 known deep nets
- \$1.7 million to finish shallow work
- Reporting of newly lost nets
- \$75K-\$150K for maintenance removal program
- deepwater gear impacts unknown

