Agenda Item F.4.c Supplemental Public Comment PPT 3 November 2016

Collaborative EFH-RCA Package

Start with a Shared Vision

- A robust fishing industry with improved profitability.
- Stable regulations and minimal controversy.
- Intact groundfish fishing communities.
- Healthy population levels and age structures.
- Resilient ocean ecosystems, with minimal substrate disturbance or damage to sensitive organisms.

Translate Into Priority Areas for EFH

- Areas with sensitive habitat (rocks, biogenic habitat)
- Areas that create value/opportunity for industry

NOTE: Value vs. Acreage

Port Meeting Process

- 30+ port meetings coastwide
- Met with 50+ industry members

(out of an active bottom trawl fleet of ~70 boats)

- Additional individual and small group outreach
- Engaged with 6+ NGO groups
- Synthesized information
- Gauged consensus level

Port Meetings

"Best available knowledge"

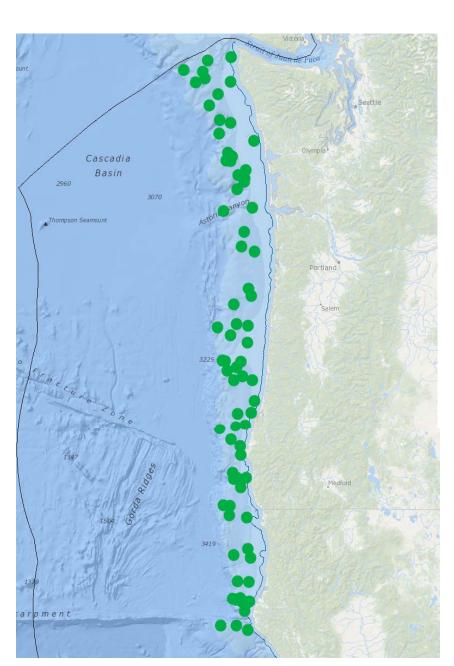




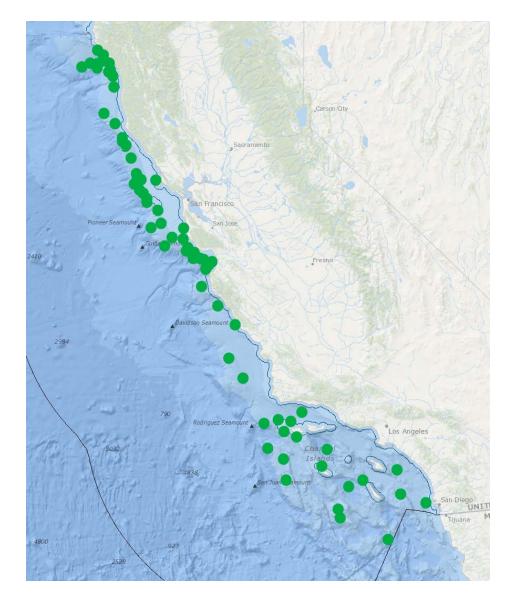


Port Meetings

"Best available knowledge"



Areas Discussed



Final Results

ftp://ftp.pcouncil.org/pub/EFH Archives/EFH Proposa 2013/Collaborative%20Proposal%20/Collaborative%2 ackage%20Final%20Nov%202016.pdf

> Final Collaborative Package of Changes to Groundfish Essential Fish Habitat Conservation Areas and the Trawl Rockfish Conservation Area

> > November 2016

Seth Atkinson Tom Libby Shems Jud Brad Pettinger Kate Kauer

	5	Big Sur Coast Modification	
	Trawl RCA 40'10' to 37'07'		3
		Travel BCA 37907' to 34927'	
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%20P	Gobbler's Knob		58
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Willopa Deep

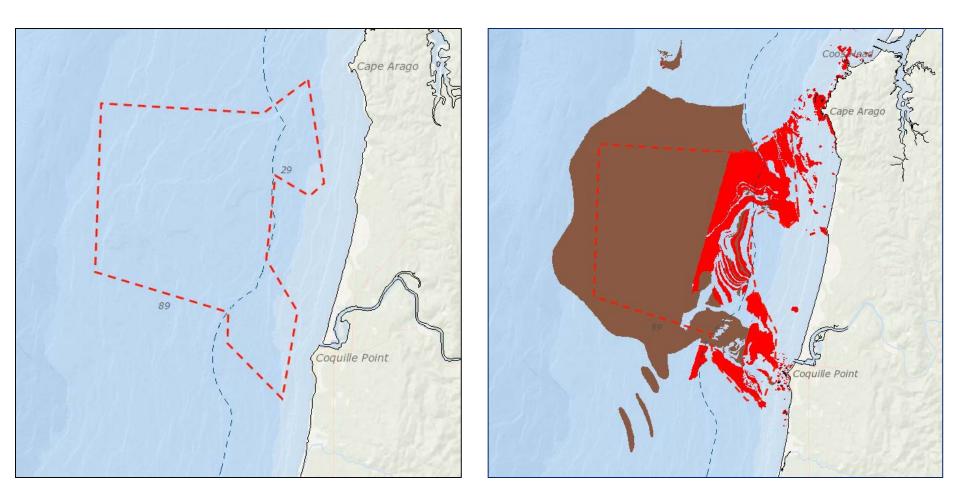
Astonia Deep

Arago Reef

Bandon High Spot Northern Modification. Bandon High Spot Southern Modification Roque River Reef Bruch Patch. Saint George Reef

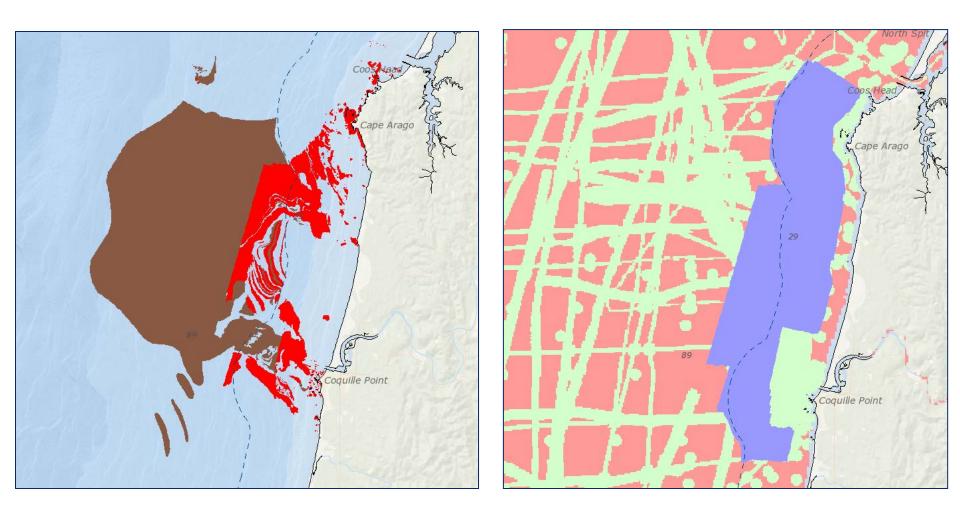
MRNMS West of Piedras Rignons SMCA

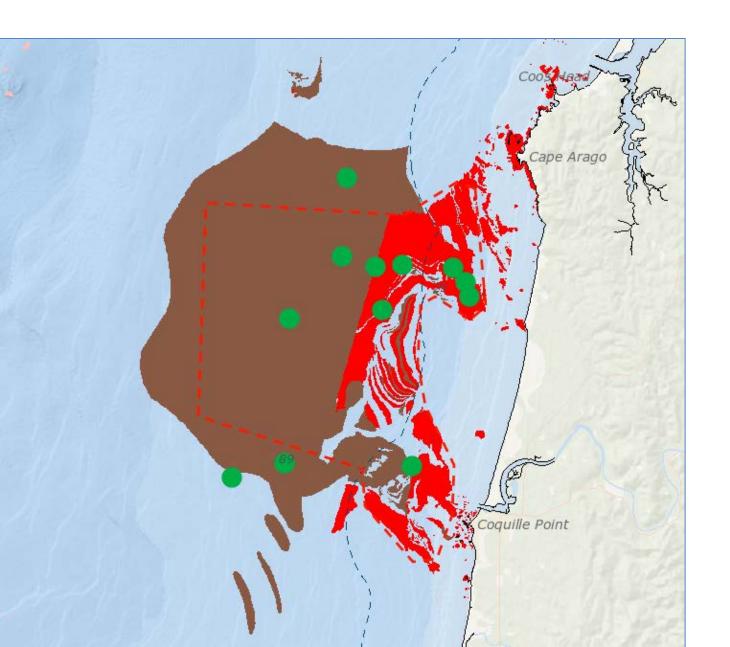
Arago Reef



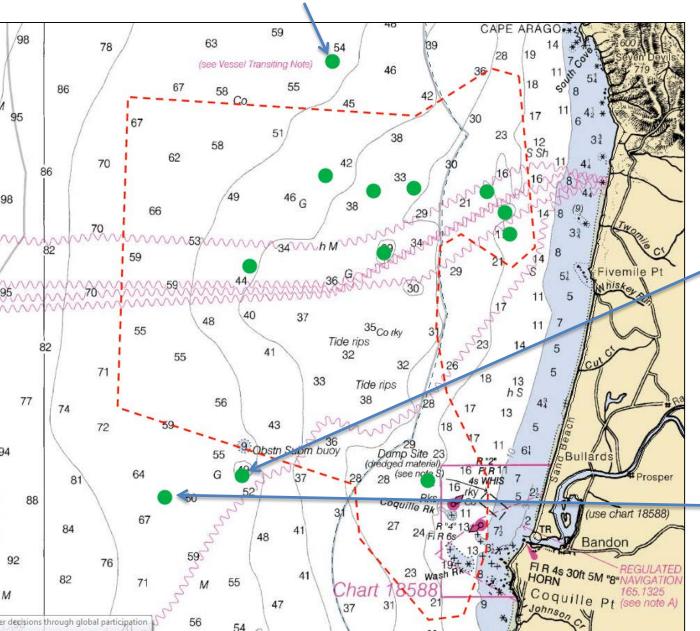
Relied on fishermen's input for seaward half, substrate data for shoreward half.

Substrate Data Confidence Levels





ROV Dives In 2011 43.29483° N lat. 124.52400° W long. All soft sediment and low relief; no corals, a few sponges; one fish.

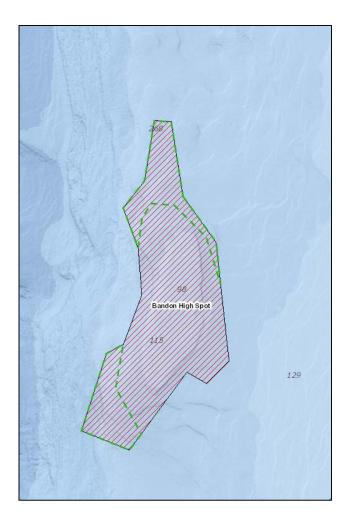


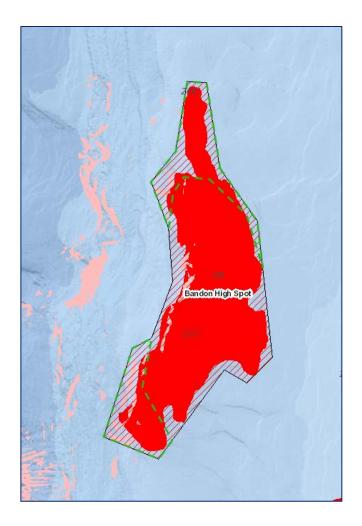
ROV Dives In 2011

43.14583° N lat. 124.56882° W long. Mostly soft sediment and low relief; some corals and sponges; two fish.

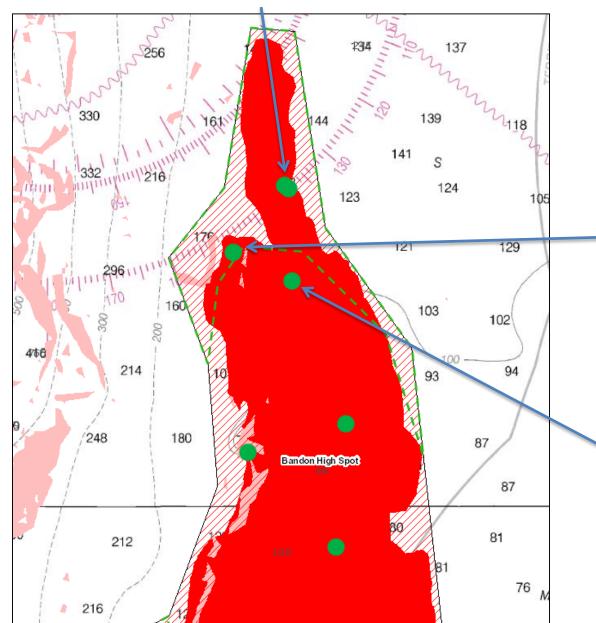
43.13808° N lat. 124.60670° W long. All soft sediment and low relief; no corals, no sponges; no fish.

Bandon High Spot





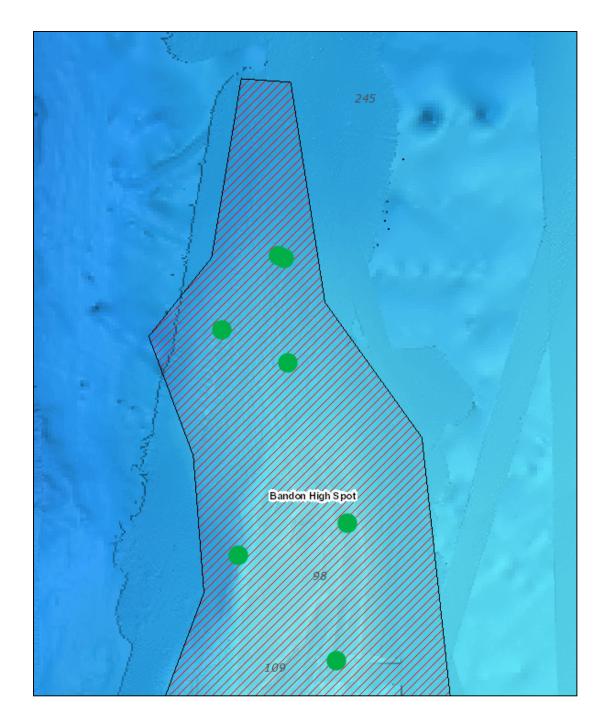
43.098769° N. lat. 124.834706° W long. and 43.097907° N. lat. 124.832857° W long. Soft sediment bottom. Sea pens and sea urchins.



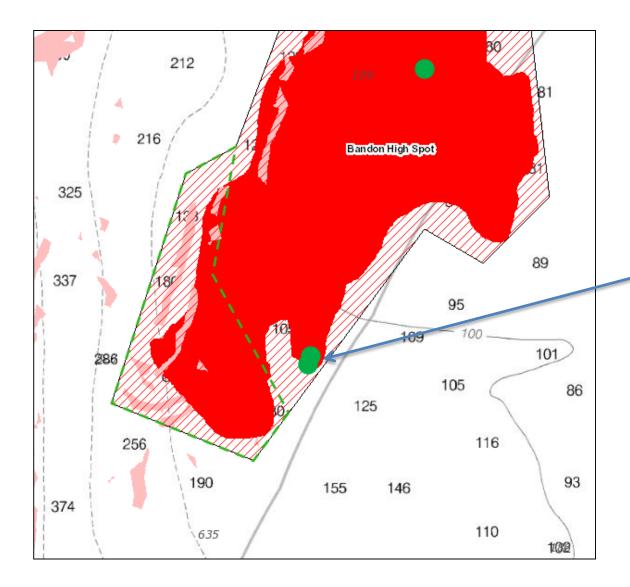
North Side: Research Dives

43.07847° N lat. 124.85647° W long. Almost all soft sediment, low relief. A few corals and sponges, no fish.

43.069407° N. lat. 124.831088° W long. Cobble and boulder substrate. Some sponges.

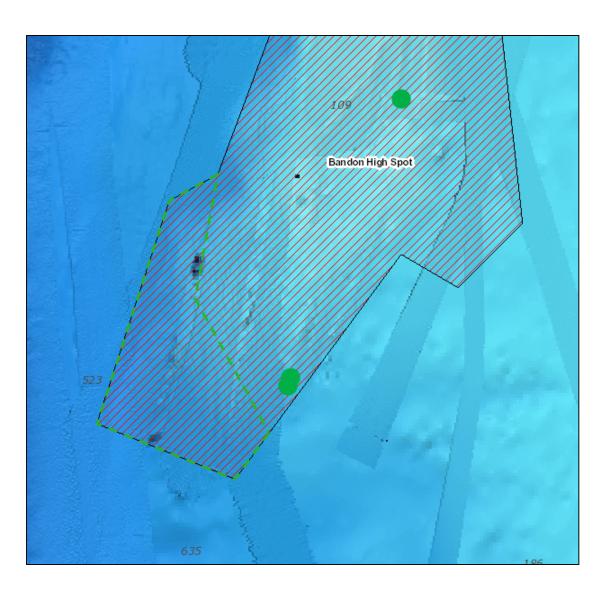


North Side: Bathymetry



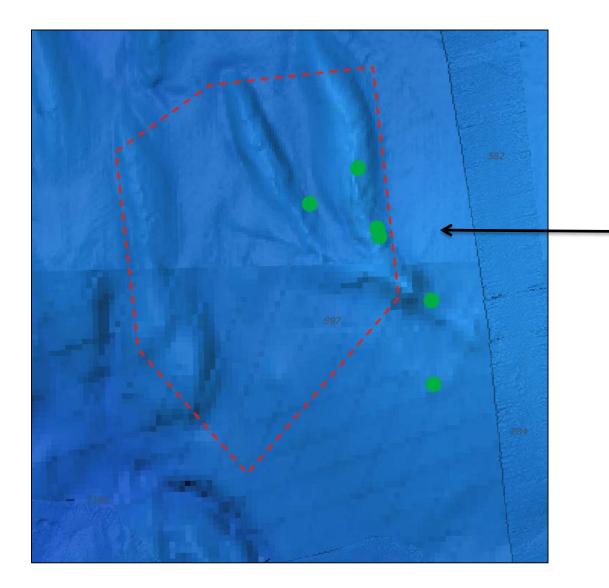
South Side: Research Dives

One Delta submersible dive, one more recent ROV dive. Both found high densities of gorgonian corals. Mud-covered bedrock substrate.

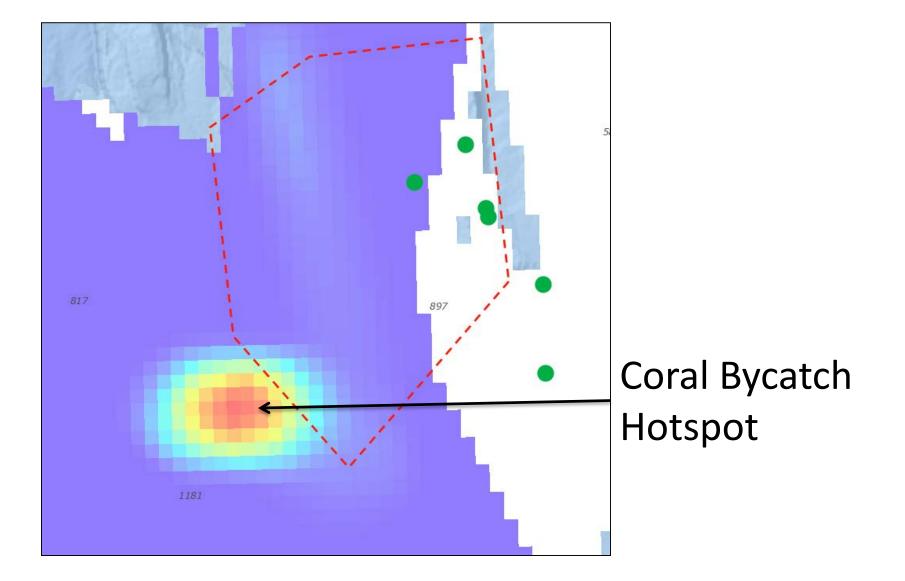


South Side: Bathymetry

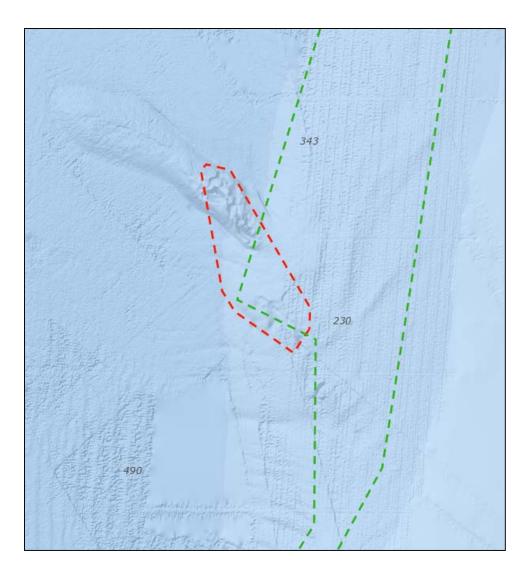
Brush Patch



2014 NOAA research cruise: AUV and towed camera sled dives found corals and hard/mixed substrate.

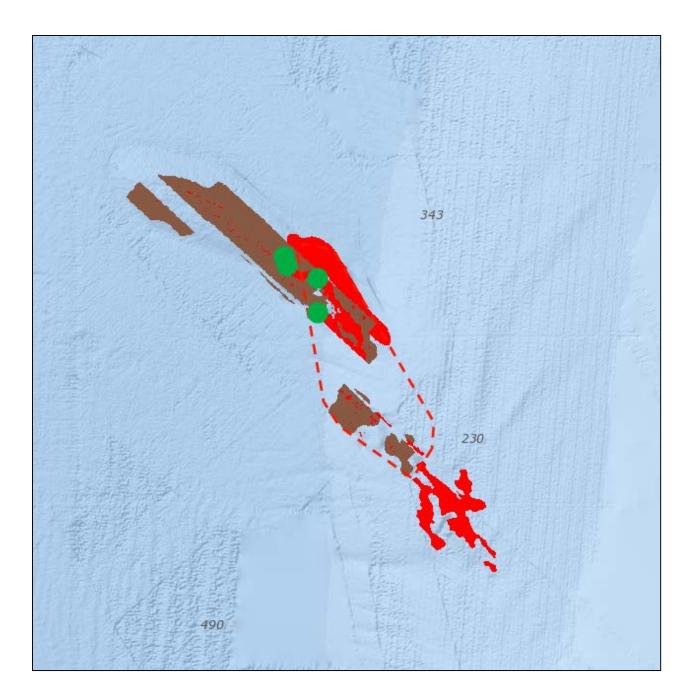


Mad River Rough Patch



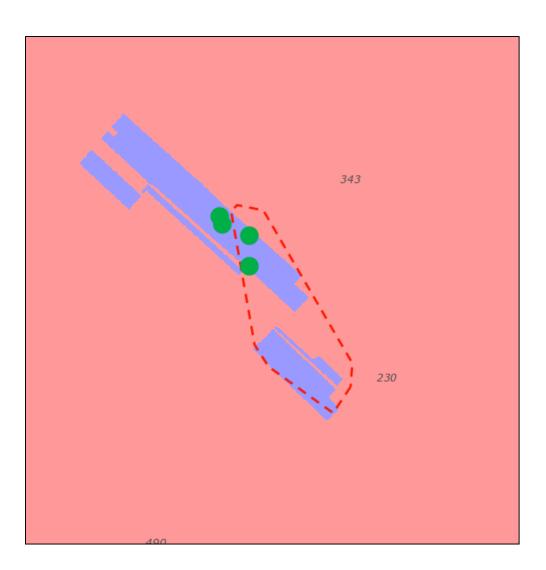
Known rough area located partially within the RCA.

Worked from plotter data showing trawl hangs, drawing a fairly tight box around the area to maintain adjacent tows.



Hard and mixed substrate.

MBARI research dives (green dots) from late 1990s, found sea pens and mushroom corals.

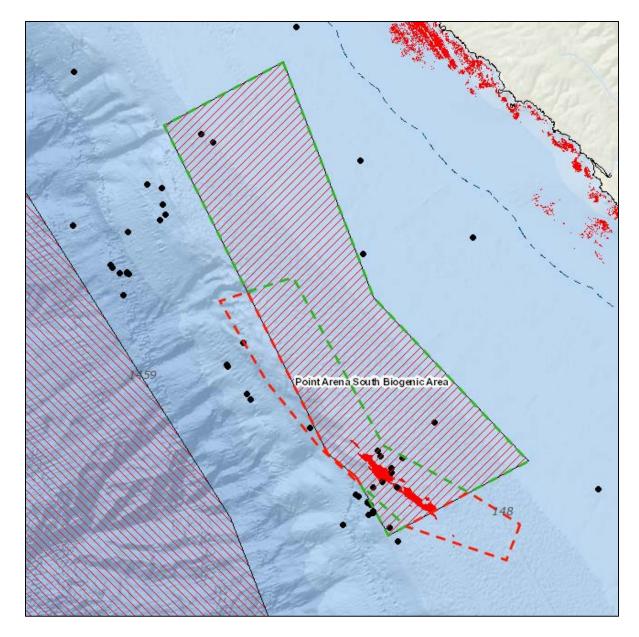


Substrate Confidence Level

(pink = low confidence)

(blue = high confidence)

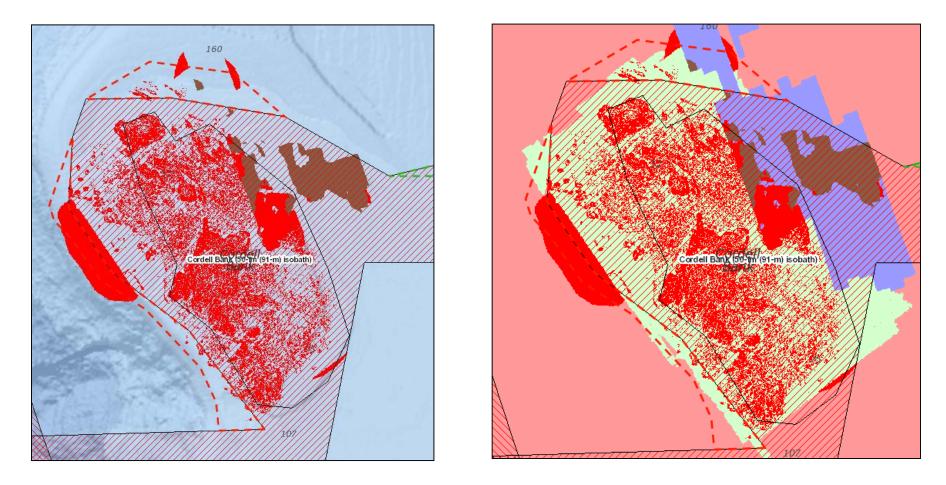
Point Arena South

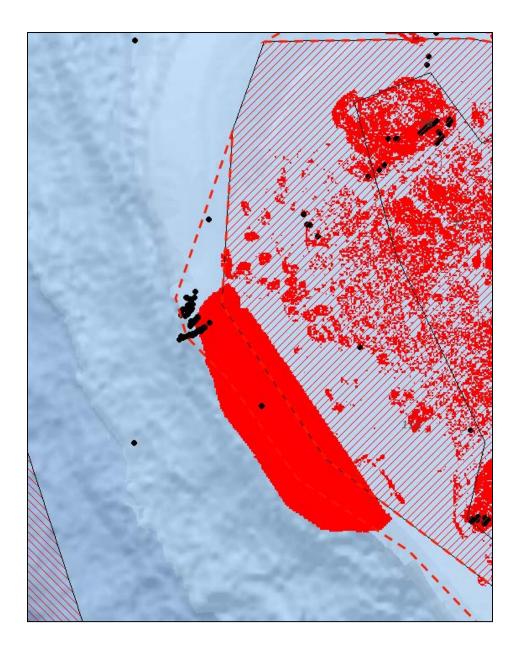


Cordell Bank



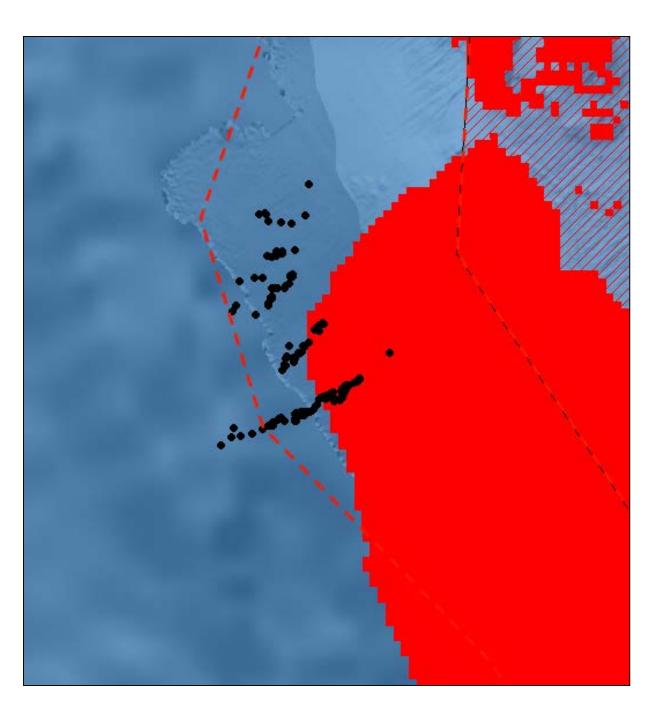
Substrate and Confidence Levels





Western Edge

Tried to encompass the research area while maintaining workable boundary for north-south trawls adjacent to the bank.



Close Up of Research Area

1 plumarella coral on boundary line

4 mushroom corals outside the line