Agenda Item H.2.b Supplemental Public Presentation 1 September 2023

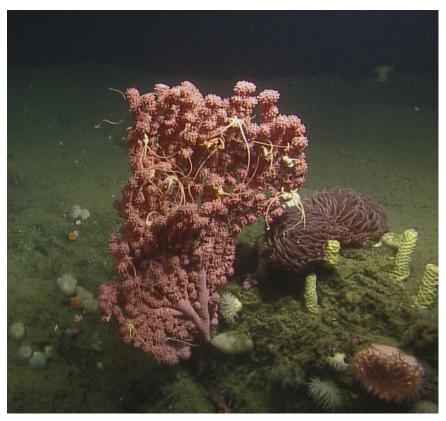


DEEP-SEA CORAL RESEARCH AND RESTORATION Pacific Fishery Management Council Agenda Item H.2 (September 11, 2023)

Ben Enticknap, Oceana



Deep-sea corals

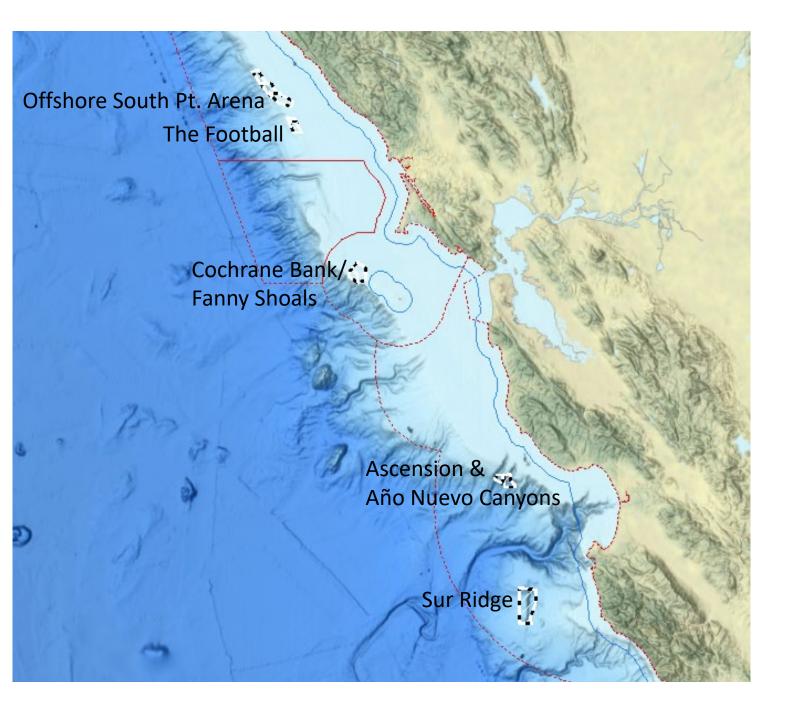


Bubblegum coral in Pioneer Canyon (Ocean Exploration Trust)

- Long-lived (100s to 1000s of years)
- Sensitive to disturbance
- Slow growing
- Rare
- Create living habitats
- PFMC priority habitat feature for EFH conservation

YFD-70 Dry Dock Impacts at Pioneer Canyon:

- 1,713 -3,672 fish and invertebrates were displaced, crushed and killed in the sinking of the dry dock
- 646 1,305 octocorals estimated to have been crushed and killed

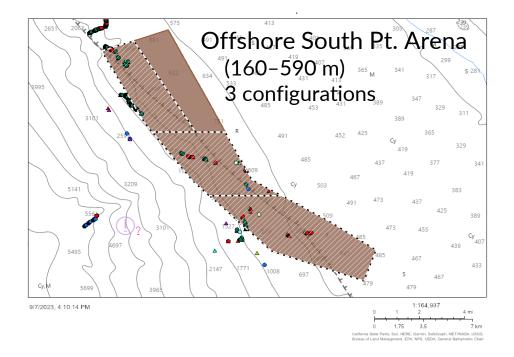


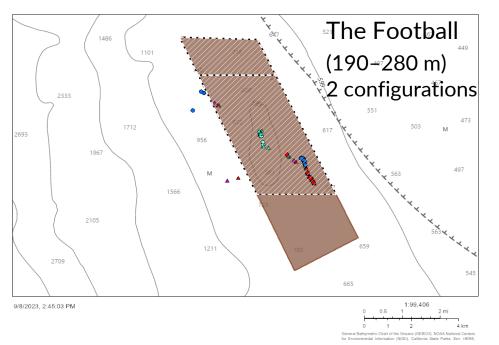
Deep-Sea Coral Research and Restoration Areas

- Restore ecologically important habitats, enhance scientific understanding, conservation, and management
- Protect the most important and sensitive essential fish habitat areas from all bottom contact

Carefully selected areas

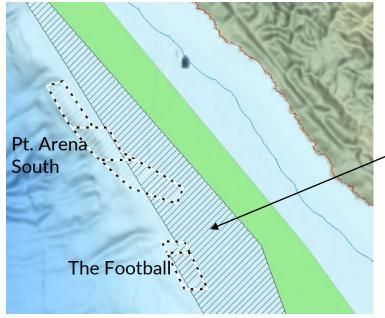
- Closed to bottom trawling
- Some currently closed to groundfish bottom contact gear in the non-trawl RCA
- Span a range of suitable depths with necessary substrate for coral outplanting







ROV collecting black coral at Point Arena South (NOAA GFNMS)

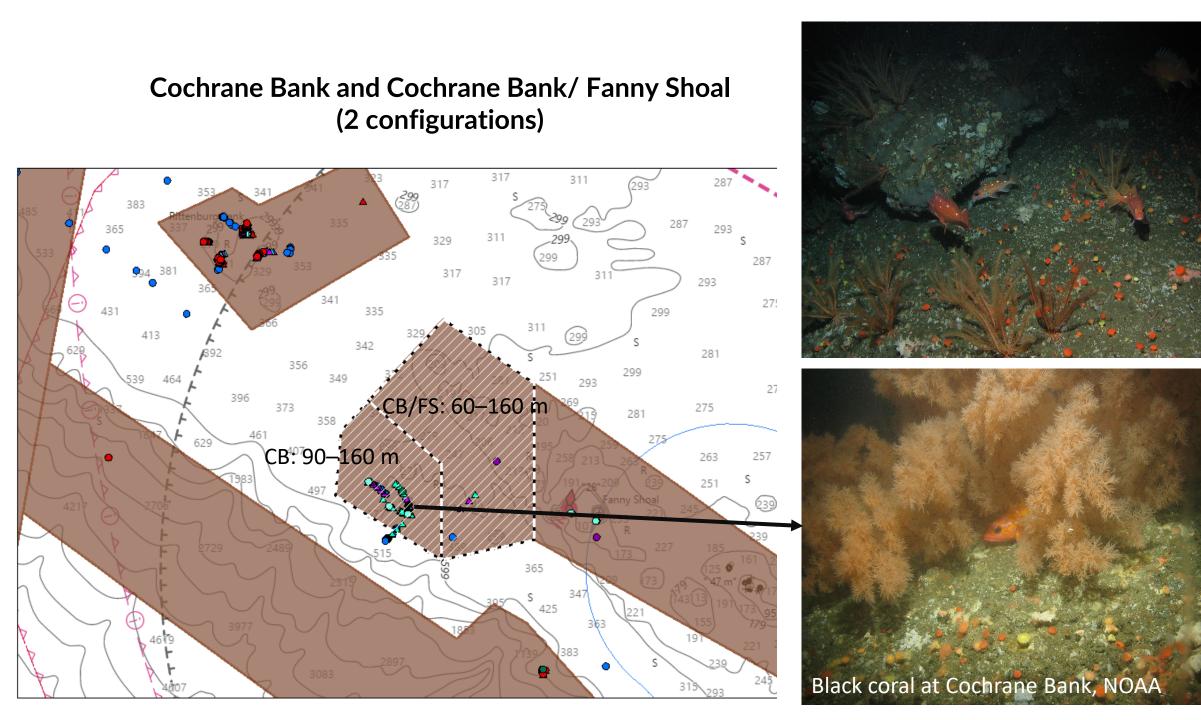


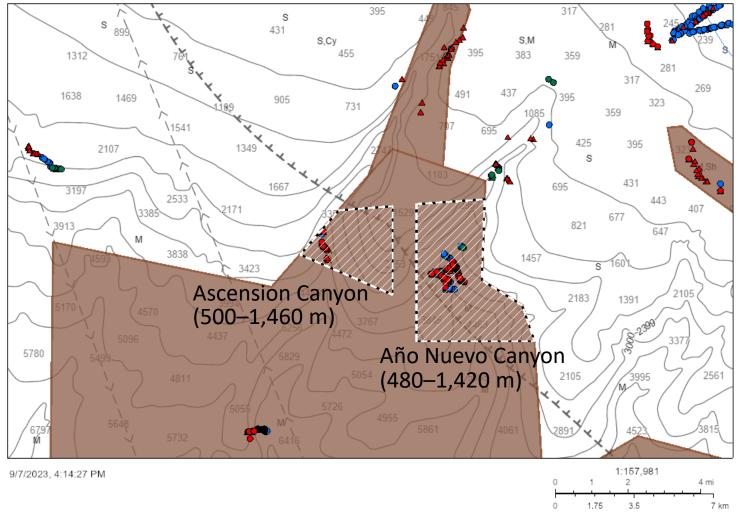
Area to be opened with _non-trawl RCA modifications

Exploring the Football: Greater Farallones NMS



Full video available: https://farallones.noaa.gov/science/football.html

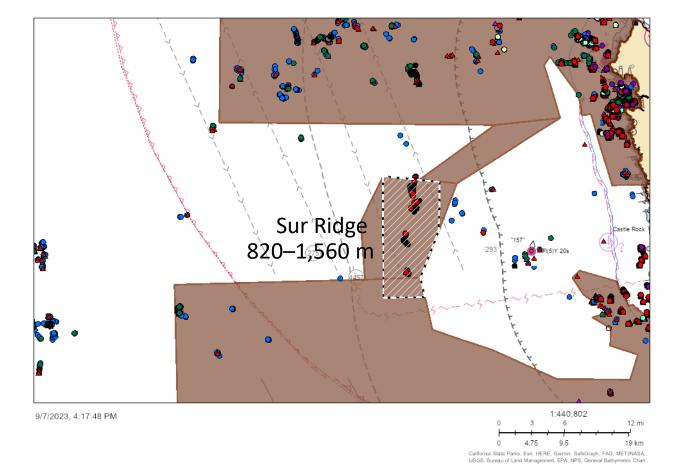




Ascension and Año Nuevo Canyons:

- In Monterey Bay EFH Conservation Area
- Identified as a Sanctuary Ecologically Significant Area
- Rocky substrates and canyon features

California State Parks, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, General Bathymetric Chart



Sur Ridge: Large rocky feature 28 miles west of Point Sur, coral gardens, Sanctuary Ecologically Significant Area, and EFH Conservation Area





Recommendation for scope of action



- Protect coral research and restoration areas at each of the five Sanctuary identified locations from all bottom contact fishing gears.
- Analyze all area configurations put forward by ONMS
- Utilize varied legal authorities under the MSA including EFH and sections 303(b)(2)(A), 303(b)(2)(B) and 303(b)(12) which authorize fishery councils to take broad actions to conserve the marine environment.
- "conservation and management" in the MSA is defined to include measures to "rebuild, restore, or maintain . . . any fishery resource and the marine environment," 16 U.S.C. § 1802(a)(5)(A) (emphasis added)