

Western Pacific Regional Fishery Management Council






Identifying and reviewing EFH and HAPCs



Original EFH Designations

- By species assemblage for two or more life stages combined, using Level 1 or 2 information, but Council adopted Level 0 for life stages with no information on geographic extent
- Designated precautionarily by known depth range and water column or substrate preference (or both), as particular features affecting abundance were largely unknown
 - Substrate type varies by family for coral reef species
 - Precious Corals limited to legally defined beds to facilitate consultation
- HAPC designated based on one of four factors



MUS	EFH, Eggs and larvae	EFH, Juveniles and adults
<p>Bottomfish</p>  <p>Seamount Groundfish</p>	<p>Overall: Eggs, water column down to 400 m to 50 mi; Larvae, water column down to 400 m from shoreline to EEZ.</p> <p>Pelagic zone to a depth of 600 m, in EEZ waters west of 180° W and north of 28° N</p>	<p>Overall: Water column & bottom to 400m</p> <p>Water column and bottom habitat in depths from 120 m to 600 m, in EEZ waters west of 180° W and north of 28° N</p>
<p>Pelagics</p> 	<p>Water column to 200m Shore to EEZ</p>	<p>Water column to 1000m Shore to EEZ</p>
<p>Precious Corals</p> 	<p>Known beds: Keahole, Makapuu, Kaena, Wespac, Brooks, and 180 Fathom gold/red coral beds, and Milolii, S. Kauai, and Auau Channel black coral beds</p>	
<p>Coral Reef Ecosystem</p> 	<p>Water column and bottom habitat (type varies by family) to 100m Shore to EEZ</p>	
<p>Crustaceans</p> 	<p>Lobsters/crab: Water column from shoreline to a depth of 150 m</p> <p>Deepwater shrimp: The outer reef slopes at depths between 550-700 m</p>	<p>Lobsters/crab: Bottom habitat down to 100 m</p> <p>Deepwater shrimp: Outer reef slopes between 300 & 700 m</p>



MUS	HAPC Designation
Bottomfish	Specific areas at Ka'ena Point, Kāne'ōhe, Makapu'u Point, Penguin Bank, Pailolo Channel, North Kaho'olawe, and Hilo
Seamount Groundfish	Congruent with EFH
Pelagics	Water column down to 1,000 m that lies above seamounts and banks shallower than 2,000 m
Precious Corals	Makapu'u , Wespac, Brooks banks beds, and the Au'au Channel
Coral Reef Ecosystem	Many specific areas of coral reef habitat.
Crustaceans	All banks within the NWHI, AS, Mar with summits less than 30 m (not for deepwater shrimp). None for PRIAs.



EFH Review: Hawaiian Archipelago

Bottomfish

- Retained overall EFH designation for HI Arch bottomfish; multispecies with individual designations by depth range, water column descriptor
- “Essential” based on analysis or model results
 - post-settlement and adult, 95% of Level 1 distribution data
 - egg, 50 mi from shore based on modeling results
 - larval, EEZ based on modeling results and likely dispersal beyond EEZ



EFH Review Process

- FEPs require Plan Team to complete the EFH review through annual report process
- Process operationalized in 2016; updating precious corals species descriptions
- Council/PIFSC/PIRO in process of closing gaps in EFH procedures through an appendix to Regional Operating Agreement
- WPSAR Process may be used for peer review

