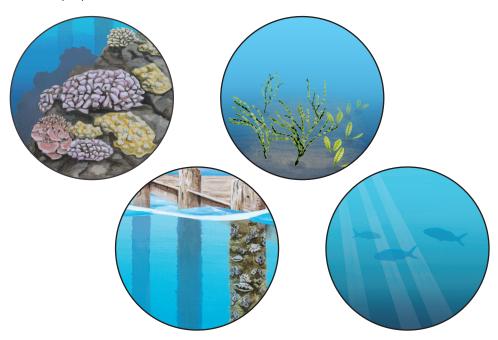


Essential Fish Habitat in Hawai'i

What Is Essential Fish Habitat?

Throughout their lives, fish and invertebrates depend on healthy habitat to thrive, including areas to feed, reproduce, migrate, and grow. Essential Fish Habitat (EFH) helps protect these vital ecosystems by defining where this habitat is located and limiting negative impacts to its function. Established in 1996 through the Magnuson-Stevens Act, EFH includes "...those waters and substrate necessary to [federally-managed] fish for spawning, breeding, feeding, and/or growth to maturity."

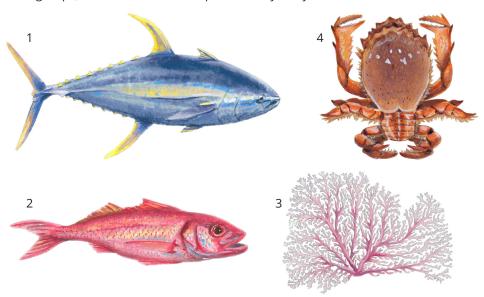
Across the United States, Fishery Management Councils are responsible for identifying EFH for federally managed species. They also identify potential adverse effects to EFH from construction or other activities and consider ways to conserve and enhance that habitat. In Hawai'i, the Western Pacific Fishery Management Council (Council) defines EFH, which is then implemented by NOAA Fisheries, Pacific Islands Regional Office. Federal agencies are required to consult with NOAA Fisheries anytime an action may affect EFH; we then provide those agencies with conservation recommendations intended to help avoid and minimize potential adverse effects from the proposed activities.



EFH can include open waters, wetlands, coral reefs, seagrass beds, and submerged structures with associated biological communities, such as filter-feeding sponges and oysters. We give these habitat types equal weight when considering the potential impacts to the species that live there and measures to limit adverse effects.

Which Species Have EFH?

In Hawai'i, the Council identifies EFH for four groups of "Management Unit Species." The Council uses the best available information to determine the EFH boundaries for these groups, which it reviews and updates every five years.



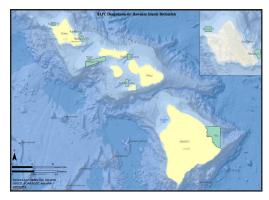
The Management Unit Species include (counter-clockwise from top left): 1) pelagic fish like yellowfin tuna ('ahi, *Thunnus albacares*); 2) bottomfish like ruby snapper (ehu, *Etelis carbunculus*), shown here, and shallow-water species like grey snapper (uku, *Aprion virescens*) shown on the reverse; 3) precious corals like pink coral (*Corallium secundum*); and 4) crustaceans like spanner crab (Kona crab, *Ranina ranina*).

What Are Some Threats to EFH?

Federal activities can negatively affect EFH, for example dredging and mining, water intake structures, beach nourishment, and aquaculture facilities. EFH consultations are necessary when a project may adversely affect EFH, either directly (such as by physically breaking or damaging corals or seagrass) or indirectly (such as by causing sedimentation or introducing invasive species).

What Are Habitat Areas of Particular Concern?

Habitat Areas of Particular Concern (HAPC) are a subset of EFH that are prioritized for habitat conservation, management, and research. Defining HAPC encourages increased scrutiny and more rigorous conservation recommendations. It can also serve as a tool for focusing habitat research and monitoring efforts.



In Hawai'i, HAPC include:

Kaʻena Point, Oʻahu Kāne'ohe Bay, O'ahu Makapu'u, O'ahu Penguin Bank Pailolo Channel, Maui N. Kahoʻolawe, Kahoʻolawe Hilo, Hawai'i

What Are Conservation Recommendations?

As required by law, NOAA Fisheries consults with federal agencies if a project has a federal nexus—it's a federal action, requires a federal permit, or is supported through federal funding. During this consultation process, we might provide conservation recommendations to avoid sensitive EFH, minimize the adverse effects of the project, or offset or provide compensation for resources that may be unavoidably lost.

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What Is Some Advice for Federal Agencies?

- * Use the EFH Habitat Mapper tool to see which EFH species and habitats are at risk from proposed activities.
- * Consider all habitat types, are colonized by habitat-forming organisms. When designated as EFH, they are given equal weight.
- as early as possible, when projects have the greatest ability to modify designs or collect additional information.
- including man-made surfaces that * Coordinate with NOAA Fisheries
- * Submit a complete EFH Assessment with the required components:
 - A description of the proposed action
 - An analysis of the potential adverse effects to EFH
 - The federal agency's conclusions on the effects of the project to EFH
 - A proposed mitigation, if applicable
- * Use common best management practices, for example avoiding physical damage by working from shore whenever possible and minimizing sedimentation by using turbidity curtains.

For More Information, Visit:



