

## Archipelagic-based Fishery Ecosystem Plans: Looking to the Past in Managing the Future

nlike the continental regions of the United States, oceanic islands of the Pacific rise steeply from the ocean floor with their upper slopes providing only a limited amount of coastal shelf area. However, despite limited coastal shelf area, Pacific islands contain a diversity of marine habitats including, coral reefs, deep reef slopes, deep benthic zones, banks, seamounts and pelagic waters which support thousands of marine species and important fishery resources.

Through thousands of years of direct observations, Pacific island communities have gained an intimate understanding of environmental cycles and rhythms which affect the health and abundances of marine resources. Based on this understanding, they developed successful management systems that maintained healthy ecosystems which was key to their survival.

The Council's FEPs will incorporate these traditional concepts of marine resource management for each of the island areas under its jurisdiction.



High islands of the Pacific contain the greatest number of reef zones and habitats including, coastal bays, lagoons, estuaries, barrier reefs, channels, reef flats, and spur and groove zones. It is estimated that there are over 1,500 species of reef fish which inhabit these zones in the US Pacific Islands.





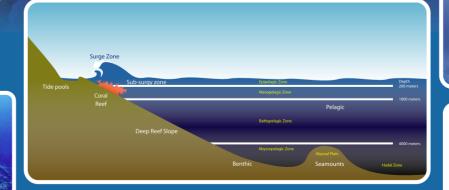
Seasonal north-south movement of the North Pacific convergence zon The southern boundary of the zone bathes the Northwestern Hawaiian Islands enriching the plankton and nutrients nearshore waters of these islands



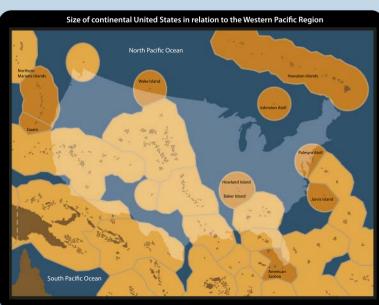
Coastal ecosystems are affected by terrestrial activities such as land development, urbanization, and non-point and point source pollution.









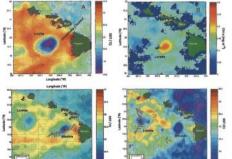


zones provide habitat for a number of marine organisms including precious corals, which have been used for Hawaiian cultural and medicinal practices and supports a \$30 million industry today.



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eddy systems off the Kona coast of the Big Island. These eddies may be one of the principal reasons why billifish such as blue narlins and swordfish pawn in large numbers of the Kona coast, and why kona is called "the marlin capitol of the Pacific" by portsfishermen around he world.