Layer Name: Benthic Habitat

File Name: benthic_habitat

Layer Type: Polygon

Status: Complete

Geog. Extent: Main Hawaiian Islands

Projection: Universal Trans Mercator, Zone 4 (Meters)

Datum: NAD 83 HARN

Description: Benthic habitat for the main Hawaiian Islands as of 2007

Source: NOAA National Centers for Coastal Science


GIS Program Staff merged individual islands into a single statewide layer.

Attributes: Refer to the following documents / sites for attribute descriptions:

Complete Metadata: http://files.hawaii.gov/dbedt/op/gis/data/benthic_habitat.html

2007 Mapping of Benthic Habitats for the Main Eight Hawaiian Islands

2007 Abridged Methods Manual for Shallow-Water Benthic Habitats of the Main Eight Hawaiian Islands

UniqueID: 4 digit numerical value representing a unique habitat combination of structure and cover attributes
PolygonID: Incremental Value used for QA/QC Processing
M_Struct: Major Reef Structure
D_Struct: Detailed Structure
M_Cover: Major Biological Cover
P_Cover: Percent biological cover of major cover type
Zone: Geomorphologic Zone
Cover: Combination of M_Cover and P_Cover

(Listing of Zones/Habitats on following pages)

Contact: Hawaii Statewide GIS Program, Office of Planning, State of Hawaii, PO Box 2359, Honolulu, Hi. 96804; (808) 587-2846.
email: gis@hawaii.gov
Zones:
Back Reef
Bank/Shelf
Bank/Shelf Escarpment
Channel
Dredged
Fore Reef
Lagoon
Land
Reef Crest
Reef Flat
Reef Hole
Shoreline Intertidal
Unclassified

Habitats:
Unconsolidated Sediment (0%-<10% submerged vegetation)
  Mud
  Sand

Submerged Vegetation
  Seagrass
    Continuous Seagrass (90%-100% Cover)
    Patchy (Discontinuous) Seagrass (50%-<90% Cover)
    Patchy (Discontinuous) Seagrass (10%-50% Cover)

  Macroalgae (fleshy and turf)
    Continuous Macroalgae (90%-100% Cover)
    Patchy (Discontinuous) Macroalgae (50%-<90% Cover)
    Patchy (Discontinuous) Macroalgae (10%-<50% Cover)

Coral Reef and Hardbottom
  Coral Reef and Colonized Hardbottom
    Linear Reef
    Aggregated Coral
    Spur and Groove
    Individual Patch Reef
    Aggregated Patch Reef
    Scattered Coral/Rock in Unconsolidated Sediment
    Colonized Pavement
    Colonized Volcanic Rock/Boulder
    Colonized Pavement with Sand Channels
Habitats – Coral Reef and Hardbottom (cont).

Uncolonized Hardbottom
  Reef Rubble
  Uncolonized Pavement
  Uncolonized Volcanic Rock/Boulder
  Uncolonized Pavement with Sand Channels

Encrusting/Coralline Algae
  Continuous Encrusting/Coralline Algae (90%-100% Cover)
  Patchy (Discontinuous) Encrusting/Coralline Algae (50%–<90% Cover)
  Patchy (Discontinuous) Encrusting/Coralline Algae (10%–<50% Cover)

Other Delineations

  Land
  Emergent Vegetation
  Artificial
  Unknown