

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

History: Downloaded from National Centers for Coastal Ocean Science, Feb, 2018:
<https://products.coastalscience.noaa.gov/collections/benthic/e97hawaii/data2007.aspx>

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