

Layer Name: Bottom Type

File Name: BottomType

Layer Type: Point

Status: Complete

Geog. Extent: Main Hawaiian Islands

Projection: Universal Trans Mercator, Zone 4, Meters

Datum: NAD 83 HARN

Please note - if you are using data in the [State's web services](#) or downloading from the [State's geoportal](#), the data is served and exported in WGS84 coordinates, although it is stored internally in UTM coordinates.

Description: This dataset contains those marine bottom type/seabed classifications within the vicinity of the main Hawaiian Islands and recorded on the nautical charts.

Source: NOAA Raster Nautical Charts

History: The raster nautical charts were first re-projected from their original projection/datum to UTM Zone 4, Old Hawaiian using NOAA's Nautical Chart Re-projector v1.8.3. NOAA's ArcView ChartViewer extension was used to display the re-projected nautical charts in ArcView v3.2. Objects were then digitized off the individual nautical charts and merged into a single dataset/shapefile which covers the entire state. The dataset was then transformed to UTM Zone 4, NAD 83, to adhere to new project requirements, using the Hawaii Datums and Projections extension in ArcView. Completed December, 2002.

Attributes:

FigNum:	Figure number (from report)
Name:	Beach name
Loc:	Beach location
AltName:	Alternate Beach Name
SigLevel:	Significance Level (i.e., Amount of Use)
SigRegion:	Region of Significance (i.e., Extent of Popularity)
Beginner:	Size of wave (ft.) requiring "beginner" ability (i.e., at these wave heights, a beginner can comfortably body surf)
Intermediate:	Size of wave (ft.) requiring "intermediate" ability (i.e., at these wave heights, intermediate ability is required to safely bodysurf)
Expert:	Size of wave (ft.) requiring "expert" ability (i.e., at these wave heights, only highly experienced, expert persons should bodysurf)
SurfType:	Description of surf breaks
HazCond:	Whether hazardous conditions may be present during periods of high surf
Comments:	Comments

Attribute Values:

SigLevel	Definition
1	low
2	moderate
3	high

SigRegion	Definition
1	Local
2	regional
3	islandwide
4	statewide

(e.g. - a site having SIGLEVEL 2 and SIGREGION 3 has moderate islandwide significance)

SurfType	Definition
Point Break	This beach has a point break
Shore Break	This beach has a shore break
Reef Break	This beach has a reef break
....etc.	

HazCond	Definition
0	No, hazardous conditions are not present during periods of high surf
1	Yes, hazardous conditions are present during periods of high surf

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