Layer Name: Wave Energy Transects
File Name: wave_energy_transects
Layer Type: Line
Status: Complete
Geographic Extent: Main Hawaiian Islands
Projection: UTM 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 data shows wave energy transect lines digitized by EA Engineering from Hagerman, G. 1992. Wave Energy Resources and Economic Assessment for the State of Hawaii. Work was done as part of a contract for the US Army Corps of Engineers in support of the State of Hawaii’s 2030 Clean Energy Initiative. For more information, see FGDC compliant metadata at http://files.hawaii.gov/dbedt/op/gis/data/wave_energy_transects.html.

History: A database was developed in 2010-2011 for the US Army Corps of Engineers and the State of Hawaii Energy Office in support of the State of Hawaii’s 2030 Clean Energy Initiative. Layer was digitized and adapted from Figure 2-16 to 2-21 of Hagerman, G. 1992. Wave Energy Resources and Economic Assessment for the State of Hawaii. Attribute data is from these figures as well. Attributes include name of transect and kW/m estimate at 80m depth, per the source figures.

Source: DBEDT State Energy Office, 2012

Attributes: Name: Transect Name (from report cited above)
m_KwPerM: Avg wave power (kw/M) at 80 meters depth

Contact: Hawaii Statewide GIS Program, Office of Planning, State of Hawaii
PO Box 2359, Honolulu, Hi. 96804
Phone: (808) 587-2846; email: gis@hawaii.gov