

Layer Name: 100 Foot Contours
File Name: <isl>cntrs100
Layer Type: Line
Status: Complete
Geog. Extent: Main Hawaiian Islands, one file/layer/feature class per island
Projection: Universal Transverse 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: Interpolated 100 foot contours for the main Hawaiian Islands
Source: USGS Digital Elevation Models (DEMs), 1:24,000, 10 meters, 1983 version
History: Processed by Office of Planning staff from 1:24,000 10 meter USGS DEMs using the following procedure:

1. DEM files were converted to GRID format using ArcToolbox.
2. GRID files were merged to form islandwide GRIDs using the command:
GRID: <out_grid> = merge(in_grid1, in_grid2,...)
3. GRIDs in meters were converted to feet using the command:
*GRID: <out_grid> = <in_grid> * 3.28*
4. GRIDs were clipped by the coastline coverage using:
GRID: GRIDCLIP <in_grid> <out_grid> cover <clip_cover>
5. To smooth the GRIDs:
ARC: FILTER <in_grid> <out_grid> LOW 2
6. To create the contours:
ARC: LATTICECONTOUR <in_grid> <out_cover> 100 100 contour 0.002

Attributes:

Contour: Contour value in feet

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