

A vertical datum of MLLW for LIDAR-derived topography is contrary to the standard MSL datum for vertical elevations. All LIDAR data is referenced to the sea surface, thus LIDAR topography is referenced to the sea surface which is referenced to MLLW. The only exception to this is with kinematic GPS surveys utilizing On-The-Fly (OTF) processing techniques where the data are referenced to the ellipsoid. The Hawaii survey DID NOT USE OTF techniques.

**Sounding Datum:** Mean Lower Low Water. The NOAA-maintained automatic tide gauge, located at Honolulu Harbor, Oahu, Mokuoloe, Oahu (northern Kaneohe Bay), Nawilili, Kauai and Kawaihae, Hawaii were all referenced to MLLW.