HI_NOAAMauiOahu_2020_B20

Project Definition: **The entire collection for a contracted area.**

Work Unit Definition: **A production block of data defined by the National Geospatial Technical Operations Center due to expediency, priority or resource allocation. There can be one or many work units per project.**

Project Information

Lidar Base Specification: 2.1	**Primary Contractor:** Woolpert, Inc. (Woolpert)
Las Version: 1.4	**Contract Mechanism:** GPSC
P Method: 7 - Linear-Mode Lidar	
Collection Start Date: 08-02-2022	**Collection End Date:** 07-09-2023
The National Map Email: tnm_help@usgs.gov	

Vertical Accuracy Results

The U.S. Geological Survey evaluates absolute vertical accuracy of the lidar and lidar-derived bare earth DEM data at the project level

Lidar Point Cloud	Required NVA RMSEz (cm)	**Tested NVA RMSEz (cm)**	Required NVA at 95% confidence level (cm)	**Tested NVA at 95% confidence level (cm)**	Required VVA at 95th percentile (cm)	**Tested VVA at 95th percentile (cm)**
	invalid QL/LBS	**7.36**	invalid QL/LBS	**14.43**	invalid QL/LBS	**28.58**

Digital Elevation Model	Required NVA RMSEz (cm)	**Tested NVA RMSEz (cm)**	Required NVA at 95% confidence level (cm)	**Tested NVA at 95% confidence level (cm)**	Required VVA at 95th percentile (cm)	**Tested VVA at 95th percentile (cm)**
	invalid QL/LBS	**7.48**	invalid QL/LBS	**14.67**	invalid QL/LBS	**31.07**

Please see the vertical_accuracy folder within the project metadata for more information.

Classifications Used

Classification verification is limited to the minimum required by applicable Lidar Base Specification. Classifications beyond the minimum are not verified by USGS.	
Classification ID	**Classification Type**
1	Unclassified
2	Ground
7	Low Point (Noise)
9	Water
17	Bridge Deck
18	High Noise
20	Ignored Ground
19	Overhead Structure

Sensor(s) Used

Sensor
Riegl VQ-780ii - Waveform Processing Airborne Laser Scanner
Optech Galaxy Prime - Aerial Oscillating Mirror

Work Unit Information

HI_NOAAMauiOahu_3_B20	**Work Unit ID:** 300628	**Quality Level:** 1
Horizontal EPSG Code: 6635	**Vertical EPSG Code:** 5703	**Geoid Model:** GEOID12B
DEM Ground Sample Distance: 0.5	**Hydro Treatment:** hydro-flattened	
Collection Start Date: 2023-02-14	**Collection End Date:** 2023-03-15	

HI_NOAAMauiOahu_1_B20	**Work Unit ID:** 198372	**Quality Level:** 1
Horizontal EPSG Code: 6634	**Vertical EPSG Code:** 5703	**Geoid Model:** GEOID12B
DEM Ground Sample Distance: 0.5	**Hydro Treatment:** hydro-flattened	
Collection Start Date: 2022-08-02	**Collection End Date:** 2023-07-09	

HI_NOAAMauiOahu_2_B20	**Work Unit ID:** 300627	**Quality Level:** 1
Horizontal EPSG Code: 6634	**Vertical EPSG Code:** 5703	**Geoid Model:** GEOID12B
DEM Ground Sample Distance: 0.5	**Hydro Treatment:** hydro-flattened	
Collection Start Date: 2023-01-11	**Collection End Date:** 2023-07-07	