

**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

<b>Lidar Base Specification:</b> 1.3	<b>Primary Contractor:</b> Dewberry Consultants LLC (Dewberry)
<b>Las Version:</b> 1.4	<b>Contract Mechanism:</b> GPSC
<b>P Method:</b> 7 - Linear-Mode Lidar	
<b>Collection Start Date:</b> 09-23-2019	<b>Collection End Date:</b> 06-28-2023
<b>The National Map Email:</b> 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)
	10.0	<b>7.41</b>	19.6	<b>14.53</b>	N/A	<b>18.21</b>

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)
	10.0	<b>7.18</b>	19.6	<b>14.07</b>	30.0	<b>18.65</b>

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	Processed, but unclassified
2	Bare earth
7	Low noise
9	Water
17	Bridge deck
18	High noise
20	Ignored ground (typically breaklines proximity)
22	Temporal exclusion (typically nonfavored data in intertidal zones)
21	Snow (if present and identifiable)

## Sensor(s) Used

Sensor
Riegl VQ-1560i - Aerial Oscillating Mirror
Optech Galaxy Prime - Aerial Oscillating Mirror
Riegl LMS Q1560 - Aerial Rotating Prism
Riegl VQ-1560ii - Rotating Polygonal Mirror
Riegl 1560ii/ii-s - Rotating Polygonal Mirror

## Work Unit Information

ID_SouthernID_15_2018	Work Unit ID: 300189	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-09-27	Collection End Date: 2020-08-05	

ID_SouthernID_10_2018	Work Unit ID: 300075	Quality Level: 2
Horizontal EPSG Code: 6341	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-11-05	Collection End Date: 2020-09-29	

ID_SouthernID_2_2018	Work Unit ID: 186861	Quality Level: 2
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-09-27	Collection End Date: 2020-05-07	

ID_SouthernID_7_SA1_2018	Work Unit ID: 230909	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2020-05-29	Collection End Date: 2020-05-30	

ID_SouthernID_11_2018	Work Unit ID: 300076	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-10-15	Collection End Date: 2020-09-11	

ID_SouthernID_13_2018	Work Unit ID: 300187	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2020-08-09	Collection End Date: 2020-10-15	

ID_SouthernID_1_2018	Work Unit ID: 186889	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-10-05	Collection End Date: 2019-11-06	

ID_SouthernID_20_2018	Work Unit ID: 300228	Quality Level: 2
Horizontal EPSG Code: 6341	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-10-03	Collection End Date: 2020-09-29	

ID_SouthernID_9_2018	Work Unit ID: 300074	Quality Level: 1
Horizontal EPSG Code: 6341	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-09-25	Collection End Date: 2020-06-20	

ID_SouthernID_12_2018	Work Unit ID: 300077	Quality Level: 2
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-10-03	Collection End Date: 2020-10-06	

ID_SouthernID_14_2018	Work Unit ID: 300188	Quality Level: 1
Horizontal EPSG Code: 6341	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-11-01	Collection End Date: 2020-07-16	

ID_SouthernID_3_SA2_2018	Work Unit ID: 220565	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-09-27	Collection End Date: 2020-05-08	

ID_SouthernID_22_2018	Work Unit ID: 300254	Quality Level: 2
Horizontal EPSG Code: 6341	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-10-05	Collection End Date: 2020-09-24	

ID_SouthernID_18_2018	Work Unit ID: 300226	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-10-15	Collection End Date: 2020-08-08	

ID_SouthernID_6_2018	Work Unit ID: 230906	Quality Level: 2
Horizontal EPSG Code: 6341	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-10-03	Collection End Date: 2019-11-03	

ID_SouthernID_17_2018	Work Unit ID: 300225	Quality Level: 2
Horizontal EPSG Code: 6341	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2019-09-26	Collection End Date: 2020-08-04	

ID_SouthernID_4_SA2_2018	Work Unit ID: 230899	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID12B
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	

<b>Collection Start Date:</b> 2019-09-23	<b>Collection End Date:</b> 2020-05-29
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<a href="#">ID_SouthernID_23_2018</a>	<b>Work Unit ID:</b> 300275	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6341	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID12B
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2020-05-28	<b>Collection End Date:</b> 2023-06-28	

<a href="#">ID_SouthernID_16_SA2_2018</a>	<b>Work Unit ID:</b> 300224	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 6341	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID12B
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2019-11-18	<b>Collection End Date:</b> 2020-09-27	

<a href="#">ID_SouthernID_8_SA2_2018</a>	<b>Work Unit ID:</b> 300073	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 6341	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID12B
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2019-09-26	<b>Collection End Date:</b> 2020-06-20	

<a href="#">ID_SouthernID_5_2018</a>	<b>Work Unit ID:</b> 230902	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 6340	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID12B
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2019-09-23	<b>Collection End Date:</b> 2020-05-10	

<a href="#">ID_SouthernID_24_2018</a>	<b>Work Unit ID:</b> 300277	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 6340	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID12B
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> no hydro treatment	
<b>Collection Start Date:</b> 2019-10-08	<b>Collection End Date:</b> 2023-06-28	

<a href="#">ID_SouthernID_21_2018</a>	<b>Work Unit ID:</b> 300252	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6340	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID12B
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2019-10-03	<b>Collection End Date:</b> 2020-08-01	

<a href="#">ID_SouthernID_19_2018</a>	<b>Work Unit ID:</b> 300227	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 6341	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID12B
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2019-11-05	<b>Collection End Date:</b> 2020-09-29	