Abstract:

Gangodagamage, C., C. Wilson and J. Rowland, 2013, Airborne Laser Altimetry Digital Elevation Model, Barrow Environmental Observatory, 0.5m spatial resolution, DOI 10.5440/119234.

This 0.5m horizontal resolution digital elevation model, DEM, was developed from Airborne Laser Altimetry flown by Aerometric Inc, now known as Quantum Spatial, Inc. on August 12, 2012. One mission was flown and the data jointly processed with LANL personnel to produce a 0.5m DEM covering a region approximately 2.8 km wide and 12.5km long extending from the coast above North Salt Lagoon to south of Gas Well Road. This DEM encompasses a diverse range of hydrologic, geomorphic, geophysical and biologic features typical of the Barrow Peninsula. Vertical accuracy at the 95% confidence interval was computed as 0.145m. The coordinate system, datum, and geoid for this DEM are UTM Zone 4N, NAD83 (2011), NAVD88 (GEOID09).