## **Updated Coastal DEMs of Midway Atoll**

Pamela R. Grothe<sup>1</sup>, Barry W. Eakins<sup>1</sup>, and Lisa A. Taylor<sup>2</sup>

- 1. Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder
- 2. NOAA, National Geophysical Data Center, Boulder, Colorado

In May 2012, NOAA's National Geophysical Data Center (NGDC) updated the integrated bathymetric-topographic digital elevation models (DEMs) of Midway Atoll that it built in June 2009 to support NOAA's Tsunami Program [Grothe et al., 2010]. The new 1/3 arc-second (~10 meter) and 3 arc-second (~90 meter) DEMs incorporate new, high-resolution topographic lidar data collected by the U.S. Geologic Survey (USGS) in 2010 [Krause et al., 2012]. These lidar data were graciously provided to NGDC by Michelle Reynolds, USGS, as a cleaned, 1-meter cell size, bare-earth DEM. A new coastline of Sand Island and Eastern Island (collectively called Midway Island) was also digitized by hand to align with the new lidar data. DEM development methodology and other data sources used in building the version 2 Midway Atoll DEMs are as described in Grothe et al. [2010]. The version 2 Midway Atoll DEMs were used by NOAA's Pacific Marine Environmental Laboratory to develop an improved tsunami forecast model for Midway Atoll [Gica, 2012].

## References

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- Gica, E., 2012. Development of a Tsunami Forecast Model for Midway Atoll, USA, NOAA Pacific Marine Environmental Laboratory technical report, Seattle, WA, 63 pp. (<a href="http://nctr.pmel.noaa.gov/forecast reports/draft reports/MidwayAtollFM12222012v2-web.pdf">http://nctr.pmel.noaa.gov/forecast reports/draft reports/MidwayAtollFM12222012v2-web.pdf</a>)
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