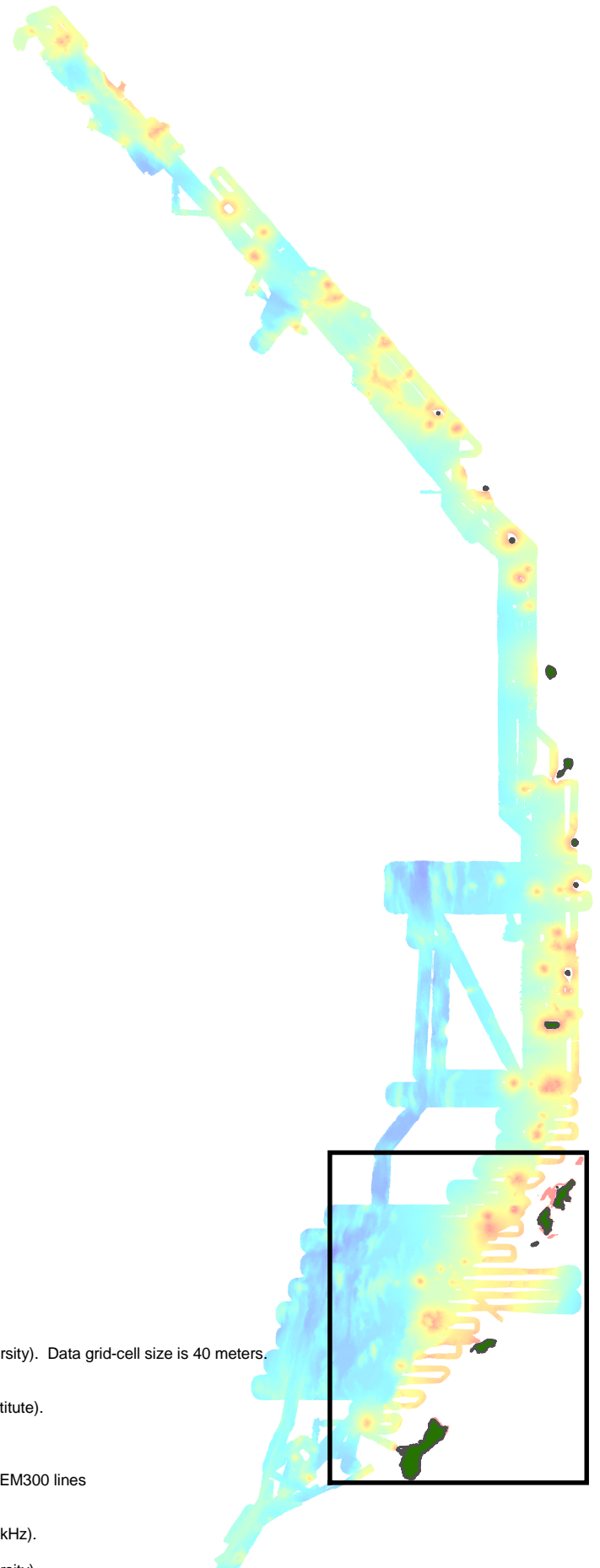
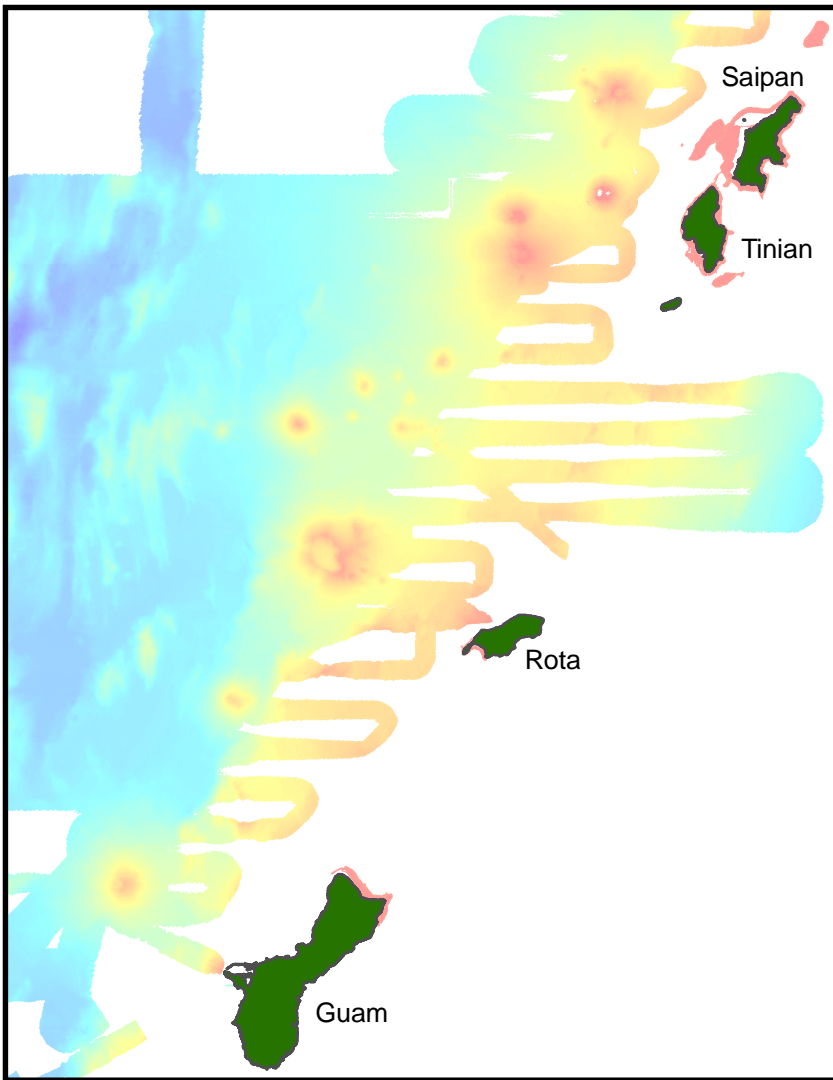


# Mariana Bathymetry



Grids created by the NOAA Vents Program - PMEL Newport, OR.  
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ESRI bathymetry grids are geographically projected - geographic coordinate system WGS 1984.

Grid naming convention  
Data identifier-lower latitude-grid-cell size  
Examples:  
em-1230-35m (em300 data, 12°30' is the southern-most latitude of this grid, 35 meter grid-cell size)  
cook-1310-40m (cook07 seabeam data, 13°10' southern-most latitude, 40 meter grid-cell size)

Bathymetry grid directories and data information  
em300  
EM300 multibeam system on the R/V Thompson (University of Washington).  
Collected during the NOAA Ocean Exploration Submarine Ring of Fire cruises 2003 and 2004.  
Data courtesy of the NOAA Vents Program, Robert W. Embley. Data grid-cell size is 35 meters.  
All data have been cleaned using MB-System mbedit interactive editor.  
Data quality is excellent.

SeaBeam  
3 separate data sets:  
\*? srof  
SeaBeam 2000 multibeam system on the R/V Melville (Scripps Institute).  
Collected during the NOAA Ocean Exploration Submarine Ring of Fire 2006 cruise.  
Data courtesy of the NOAA Vents Program, Robert W. Embley. Data grid-cell size is 40 meters.  
Data have not been cleaned with mbedit, but are generally good to excellent quality.  
\*? cook  
SeaBeam 2000 multibeam system on the R/V Melville (Scripps Institute).  
Collected on the Cook07 cruise in 2001.  
Data courtesy of Bob Stern (University of Texas at Dallas) and Sherman Bloomer (Oregon State University). Data grid-cell size is 40 meters.  
Data have not been cleaned with mbedit, but are generally good.  
\*? kor  
SeaBeam 2100 multibeam system on the R/V Onnuri, (Korean Ocean Research and Development Institute).  
Collected on the NOAA Ocean Exploration Sounds of the Sea 2003 cruise.  
Data courtesy of the NOAA Vents Program, Robert P. Dziak. Data grid-cell size is 100 meters.  
There were big problems with this data set during collection. The swath width changes considerably  
in very small time intervals. The data were cleaned with mbedit, and are useful to fill gaps in between EM300 lines  
— but overall the data quality are fair to poor.  
\*? mr1  
Phase bathymetry from the HAWAII MR1, owned and operated by the University of Hawaii (11 and 12 kHz).  
System operated from the R/V Melville (Scripps Institute). Collected on the Cook07 cruise in 2001.  
Data courtesy of Bob Stern (University of Texas at Dallas) and Sherman Bloomer (Oregon State University).  
Data grid-cell size is 100 meters.