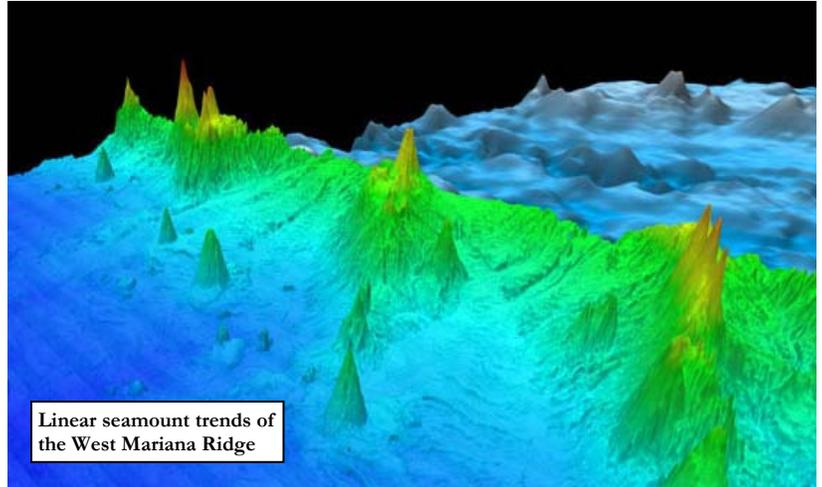


# NOAA Nautical Charting Calendar

## Law of the Sea Surveys

Article 76 of the UN Convention on the Law of the Sea outlines criteria that may allow a coastal state to extend its legal jurisdiction beyond the Exclusive Economic Zone. The foot of the slope, a geomorphic feature defined in Article 76, and the 2500-m isobath are features used to define this extended continental shelf.

NOAA and its federal, academic, and contractor partners were charged with gathering data to define these features for a U.S. extension. Full information and data are available at <http://ccom.unh.edu/>. Click on "Projects" then "Law of the Sea."



NOAA and the University of New Hampshire used the Navy hydrographic ship USNS *Bowditch* to gather data on the Western Mariana Ridge shown here. The ship carried a hull-mounted Kongsberg Simrad EM121A multibeam echo sounder (MBES), a Knudsen 320 B/R 3.5-kHz chirp sub-bottom profiler, and a BGM-5 Bell Gravity Meter. The mapping generates datasets useful to a wide spectrum of disciplines; the new maps will provide a framework for the next generation of continental-margin studies.

The MBES mapped bathymetry and acoustic backscatter in 121-1° receive apertures over a 120° swath. Equiangular beam-forming produced seafloor footprints of each beam that grows with angle away from nadir. For near-vertical beams, depths are determined by center-of-gravity amplitude detection, but for most beams the depth is determined by phase detection. The system is capable of depth accuracies of 0.3 to 0.5% of water depth.

 <div style="text-align: center; font-size: 2em; font-weight: bold;">November 2007</div> 						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Prepared by the Office of Coast Survey, National Ocean Service, NOAA, <a href="http://www.NauticalCharts.NOAA.gov">www.NauticalCharts.NOAA.gov</a> , 1-301-713-2770  Note: You can add your own information to the Charting Calendar using Adobe Reader 7 or later. The tools are found at the Tools -> Commenting, and Tools -> Drawing Markup features of Adobe Reader.				1 New chart editions released. <a href="http://www.NauticalCharts.NOAA.gov/mcd/son.htm">www.NauticalCharts.NOAA.gov/mcd/son.htm</a>	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	