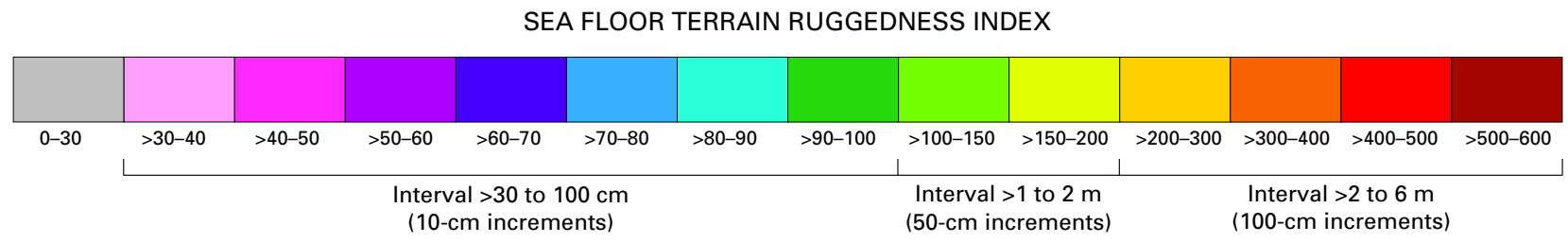
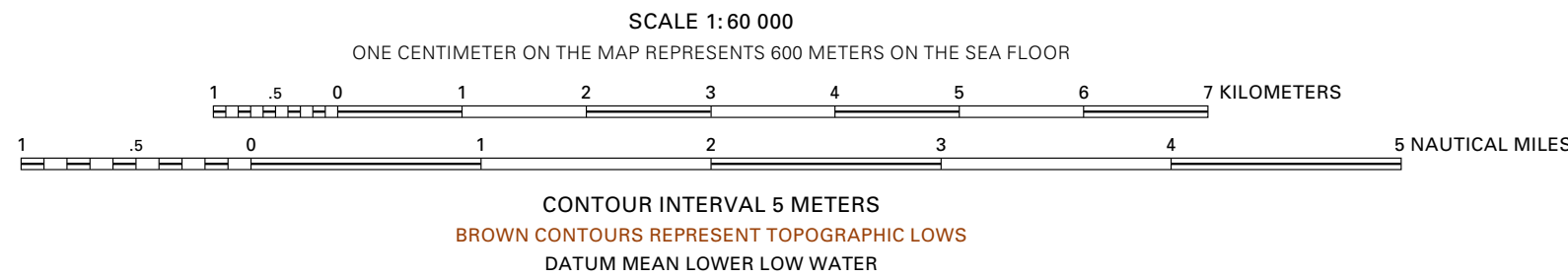


Map projection: Generic Reference System 1983, North American Datum 1983
Longitude of central meridian: 70°30' W, latitude of true scale: 41°30' N
This map is not intended for longitudinal purposes



Colors represent the average change in elevation, in centimeters, between a central area (a 3 x 3 m pixel) and the eight pixels that surround it (total area analyzed is three pixels by three pixels, or 30 x 30 m in size). For example, on the map blue represents central pixels having an average elevation change of +70 to 80 cm with respect to their surrounding eight-pixel areas. Note the elevation-change increments in the color scale vary from 10 cm to 80 cm to 100 cm. A filter was applied to the ruggedness index image to smooth the boundaries between the mapped intervals. The filter calculated the mean of the TR value of each pixel and its eight neighboring pixels in a three-pixel by three-pixel grid that measures 30 x 30 m. Areas of ruggedness were calculated using the filtered image; see table 1 for map D on the DVD-ROM.

Sheet 2.—General sea floor ruggedness and sun-illuminated topography.

MAP D.—SEA FLOOR RUGGEDNESS IN THE
STELLWAGEN BANK NATIONAL MARINE SANCTUARY REGION

By

Page C. Valentine, Lian A. Scully, and Sarah J. Fuller

2005

Sea Floor Image Maps Showing Topography, Sun-Illuminated Topography, Backscatter Intensity, Ruggedness, Slope,
and the Distribution of Boulder Ridges and Bedrock Outcrops in the Stellwagen Bank National Marine Sanctuary Region off Boston, Massachusetts
Page C. Valentine, editor

