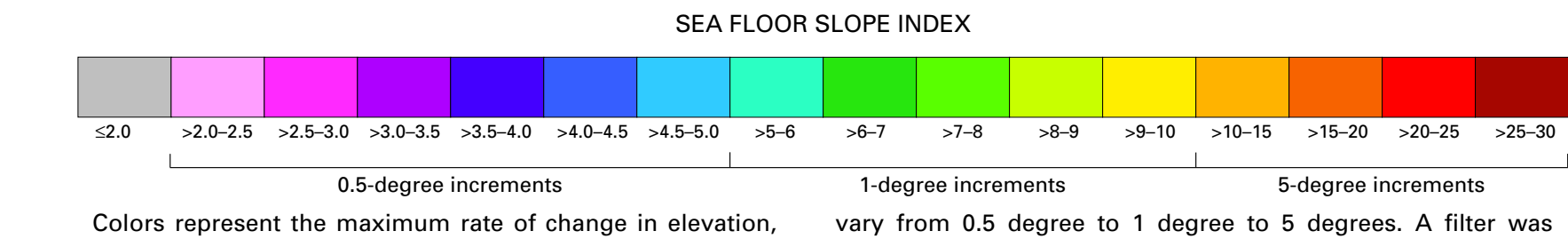


Map projection: Geocentric Reference System 1983, North American Datum 1983
Longitude of meridian: 70° 30' W; latitude of true scale: 42° 30' N
The map is not intended for navigational purposes.

SCALE 1:60,000
ONE CENTIMETER ON THE MAP REPRESENTS 600 METERS ON THE SEA FLOOR
NAUTICAL MILES
KILOMETERS
METERS
CONTOUR INTERVAL 5 METERS
BROWN CONTOURS REPRESENT TOPOGRAPHIC LOWS
DASHED LINES SHOW LOWER WATER



Colors represent the maximum rate of change in elevation, shown as slope angle in degrees, between a central area (a 3x3 pixel grid) and the eight pixels that surround it. A filter was applied to the slope image to smooth the boundaries between the mapped intervals. The filter calculated the mean of the slope value of each pixel and its eight neighboring pixels in a three-pixel by three-pixel grid that measures 3x3 pixels. Areas of slope where the maximum rate of change in elevation of 20 to 10 degrees with respect to their surrounding eight-pixel areas. Note the slope-change increments in the color index.

MAP E.—SEA FLOOR SLOPE AND SUN-ILLUMINATED TOPOGRAPHY IN THE STELLWAGEN BANK NATIONAL MARINE SANCTUARY REGION

By

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

2005

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

