1997

"point grid" routine was used to create a grid from the point file and to assign depth values to individual grid cells. The cell size of the output grid was 13 m. Topographic contours at 5-

meter intervals were generated using the "lattice contour" routine. Most of the contour lines are displayed here unedited. However, in areas of very smooth sea floor, some

contours displayed distortions that are due to problems encountered during data acquisition at nadir (directly below the vessel's keel) and to refraction effects at the outermost edge of the beam pattern. These distortions were smoothed by using a user-defined low-frequency "focal median" filter routine on the grid created by "point grid." Square focal median filters varying in size from 5×5 to 21×21 cells were tried, and a 9×9 cell size was selected. The resulting contours were compared with features displayed in

sun-illuminated seabed imagery of the same data and edited manually with "Arc/Edit" to remove small artifacts that remained after filtering. Each of the quadrangles was

contoured independently, and contours that extend into adjacent quadrangles were edited

manually to match at the boundary.

Location map - Shows mapped quadrangle outlined. Stellwagen Bank National Marine Sanctuary (SBNMS) boundary shown as dashed line. Bathymetric contours in meters.

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