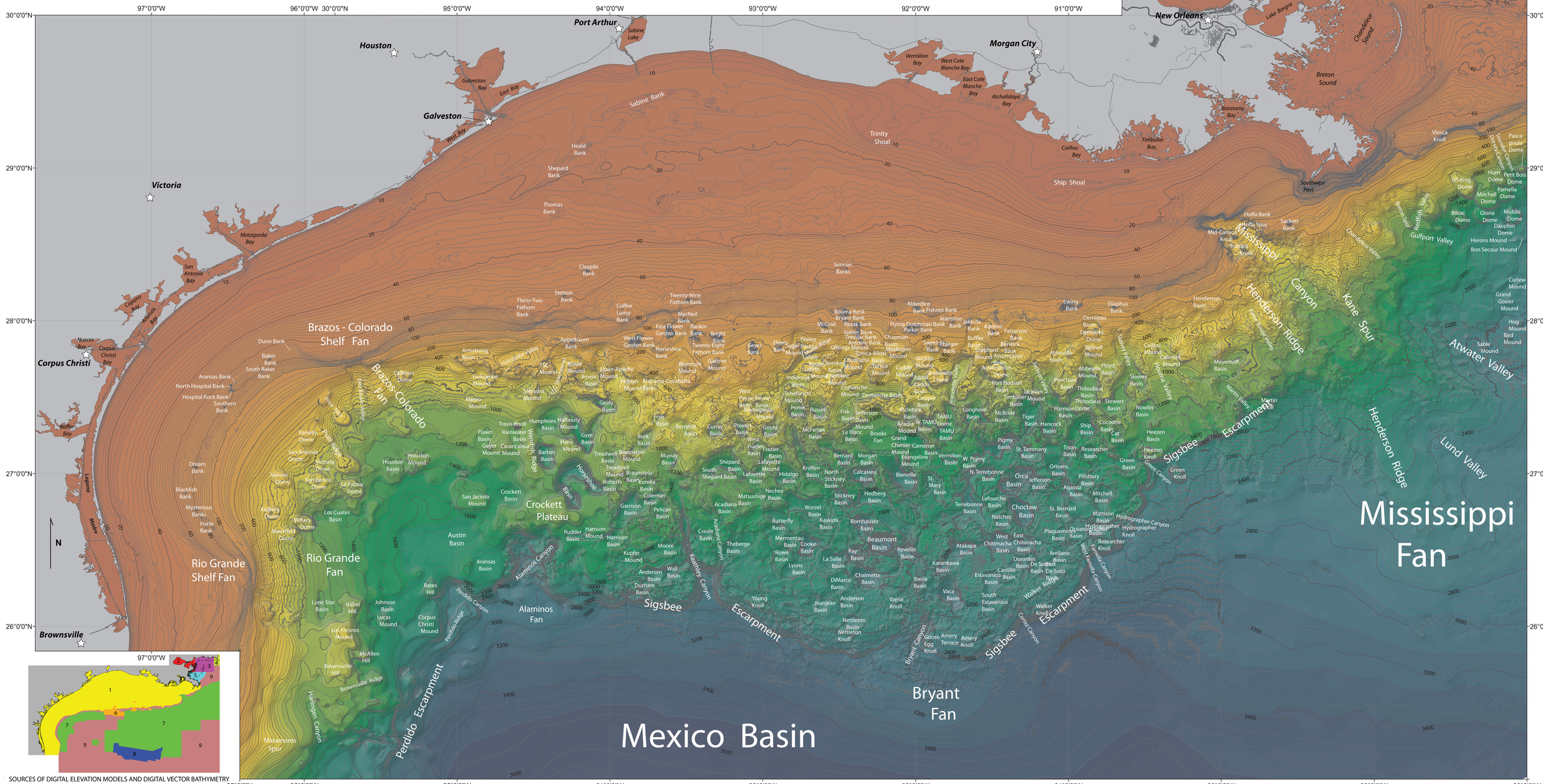
# BATHYMETRY OF THE NORTHWESTERN GULF OF MEXICO







SOURCES OF DIGITAL ELEVATION MODELS AND DIGITAL VECTOR BATHYMETRY

1) Texas Sea Grant/ Texas A&M University: Bathymetry of the Northwestern Gulf of Mexico Continental Shelf, Including Topography of Adjacent Coastal Land Areas of Texas and Louisiana (Holcombe, T. L., Holcombe, L. H., Bryant, W. R., and Bednarz, S. W., 2007: College Station, Texas, Texas Sea Grant College Program, CD-ROM, 8 pp. text, 38 images, index map). Compiled from bathymetric data collected by the NOAA Coast Survey over a 70-year period, 1930-2000. Bathymetric data includes 3.5 million soundings from 291 hydrographic surveys. Zero datum is MLLW.

2, 3, and 4) NOAA National Geophysical Data Center: 1/3 arc-second NOAA VDATUM Digital Elevation Models, New Orleans, Biloxi, and Mobile Areas. Some depths adjusted to approximate MLLW. Source bathymetry: NOAA Coast Survey hydrographic surveys.

5) NOAA Coast Survey: Hydrographic Charts, scale 1:80,000, chart no. 11363, Chandeleur and Breton Sounds, and chart no. 11364, Mississippi River - Venice to New Orleans.

6) U. S. Geological Survey, and NOAA Flower Garden Banks National Marine Sanctuary: Digital elevation models from multibeam bathymetric surveys of 20 outer shelf banks. Surveys conducted in 1998, 2002, 2003, and 2004. Grid resolutions of DEMs varies from 0.5 x 0.5 meters to 5 x 5 meters.

7) NOAA National Geophysical Data Center: 3 arc-second DEMs, Western (volume 5), and Central (volume 4) Gulf of Mexico Coastal Relief Models, released in 2001. Source bathymetry: multibeam bathymetric surveys conducted by the NOAA Coast Survey from 1998 to 1992. Surveys were confined to Continental Slope areas deeper that 150 meters.

8) University of New Hampshire Center for Coastal and Ocean Mapping/ Joint Hydrographic Center: 100 x 100 meter grid resolution Digital Elevation Model, Sigsbee Escarpment Area, Law of the Sea Project. Source bathymetry: multibeam bathymetric survey conducted in 2007 (CCOM/ JHC cruise report NR07-1, Gardner, J. V., 2007).

9) NOAA National Geophysical Data Center and Intergovernmental Oceanographic Commission: Bathymetry of the Northern Gulf of Mexico and the Atlantic Ocean East of Florida (Taylor, L. A., Holcombe, T. L., and Bryant, W. R., 2000: Boulder, Colorado, NGDC, WDC A for MGG report no. MGG-16). Source bathymetry: many sources, including trackline geophysical surveys, and unpublished bathymetry from the western Continental Slope, NW Gulf of Mexico.

0 12.5 25 50 75 100
Kilometers

Mercator Projection

Contour interval:
0-100 meters--------2 meters
100-160 meters----10 meters
>160 meters--------40 meters

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Note: The bathymetry is intended to show seafloor topography only, and is NOT TO BE USED FOR NAVIGATION