**Topobathymetric Model of the Northern Gulf of Mexico (NGOM2), 1885 to 2021 Spatial Metadata Data Dictionary**

**Data Delivery Overview:**

The geospatial data delivery consists of a geodatabase. The geodatabase “NGOM2\_CoNED\_TBDEM\_Spatial\_Metadata.gdb” is a geospatial polygon feature dataset that contains spatial footprints for each input source dataset. The attributes for each footprint polygon describe the characteristics of each input dataset used to generate the TBDEM. Detailed descriptions of the coordinate system, survey accuracy, and geodatabase attribute fields are contained in following sections of this document.

***Geodatabase / Polygon Summary (Figure 1):***

|  |  |  |
| --- | --- | --- |
| **Geodatabase** | **Layer Type** | **Number of Polygons** |
| NGOM2\_CoNED\_TBDEM\_Spatial\_Metadata | Polygon  | 286 |

**Horizontal Coordinate System:**

Transverse Mercator

NAD\_1983\_2011\_UTM\_Zone\_15N

Horizontal coordinates are provided in UTM northing/easting.

**Attribute Field Data Dictionary (Geodatabase):**

*Title* = Source dataset name

*Source\_Project* = Organization major project or activity

*Source\_Organization* = Source dataset organization

*Date\_Acquired* = Date data were acquired

*Publication\_Date* = Date source data were published

*Data\_Type* = Input elevation type

*Source\_Projection* = Input source projection

*Source\_Resolution* = Input source horizontal resolution

*Source\_Horizontal\_Datum* = Input source horizontal datum

*Source\_Vertical\_Units* = Input source vertical units

*Source\_Vertical\_Datum* = Input source vertical datum

*Geoid* = Input source geoid

*Coverage\_Area* = General spatial extent description of input source dataset

*Source\_Publication* = Online web link to input source dataset

*Shape\_Length* = Perimeter length of spatial polygon feature in meters

*Shape\_Area* = Area of spatial polygon feature in square meters

**Attribute Field Data Dictionary (Geodatabase): Example Record**

*Title* = Biloxi, Mississippi Coastal Digital Elevation Model

*Source\_Project* = NCEI Tsunami DEM

*Source\_Organization* = NOAA/NCEI

*Date\_Acquired* = 2007

*Publication\_Date* = 2007

*Data\_Type* = Topobathy

*Source\_Projection* = Geographic

*Source\_Resolution* = 1/3 arc-second

*Source\_Horizontal\_Datum* = WGS84

*Source\_Vertical\_Units* = Meters

*Source\_Vertical\_Datum* = MHW

*Geoid* = Not documented

*Coverage\_Area* = Biloxi, MS, Mississippi Sound

*Source\_Publication* = https://www.ngdc.noaa.gov/mgg/coastal/coastal.html

*Shape\_Length* = 96139.974089

*Shape\_Area* = 106648238.021328

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Figure 1: Spatial extent of Topobathymetric Model of the Northern Gulf of Mexico, 1885 to 2021, Topobathymetric Digital Elevation Model, NGOM2 Spatial Metadata polygons – Magenta lines, and State borders – white lines.



Figure 2: The red polygons represent the hydro-flattened locations in the NGOM2 Topobathymetric Digital Elevation Model. The white lines represent the state boundaries.