

## Electronic Data Delivery (EDD) Guidelines

# Bathymetric/Topographic Analytical Survey Data Requirements

This document contains instructions for delivery of **bathymetric/topographic analytical survey data**. The formatting described in this document applies to the following bathymetric/topographic analytical survey data type codes found in the CPRA File Naming Convention (FNC) document and Table 2 below: ELMBB, ELSBB, ELINB, ELSUR, BATHY, and ISPCH.

A data deliverable must contain:

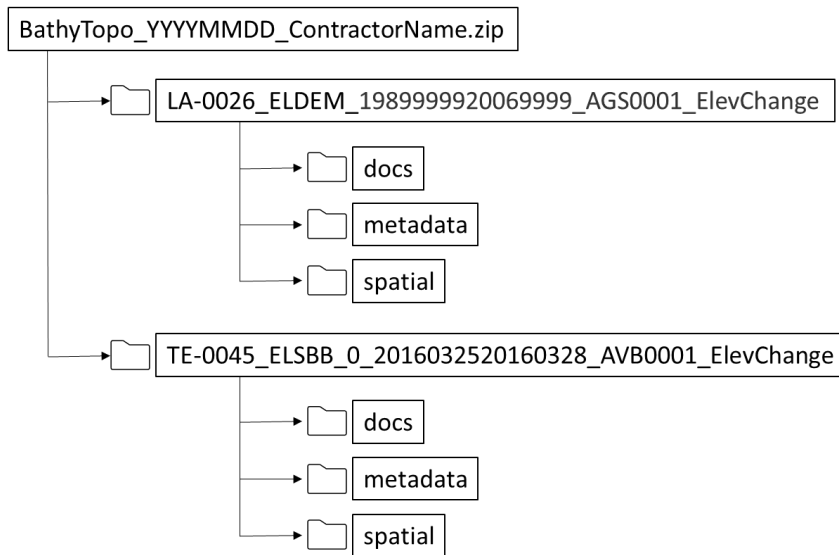
1. A zipped file named in accordance with the CPRA FNC containing the following for any required **analytical** survey data:
  - a. Zipped analyzed data package(s) determined by contract specifications (*i.e. if the project/contract requires an analytical product [e.g., **elevation change analysis**]*):
    - i. For each year used in the comparison analysis: Source year(s) **Digital Elevation Model** (DEM) in geoTIFF form (\*.tif) named in accordance with the FNC.
    - ii. For each analysis product: Analysis product (*vertical difference product*) in geoTIFF form (\*.tif) named in accordance with the FNC.

Data may be referenced using any horizontal coordinate system recognized by the European Petroleum Survey Group (EPSG). Elevation values must be referenced using vertical datum: NAVD88 (feet).

2. A text file named EPSG\_WKID.txt containing the EPSG Well-known ID (WKID) of the reference horizontal coordinate system. (See Table 1 below for common WKIDs. <https://epsg.org/>).  
*Note: EPSG\_WKID.txt file must contain only the numerical WKID. (i.e., If the coordinate system used was "NAD\_1983\_StatePlane\_Louisiana\_North\_FIPS\_1701 WKID: 26981)*
3. metadata documents in \*.html and \*.xml format, and optionally, other supporting documents such as logs, reports, files, etc.

Delivered files will be compressed into a single \*.zip file named BathyTopo\_YYYYMMDD\_ContractorName.zip, where 'YYYYMMDD' is the date the data package was delivered to CPRA, 'ContractorName' is the name of the company that collected the data, and whose structure, and contents are defined below.

Figure 1: Zipped data package deliverable folder structure and contents example



- a. **“docs”** folder: Any associated file(s) that are not metadata, nor spatial data. Examples include logs, reports, etc. Any file in this folder must adhere to one of the following criteria:
  - i. a \*.pdf file, or
  - ii. a \*.jpg file, or
  - iii. a \*.zip file that contains one or more files and/or file type combinations. Use this option if a file is not a \*.pdf, nor a \*.jpg even if it is a single file.
  
- b. **“metadata”** folder: Metadata - FGDC compliant metadata in XML and HTML format and named using the File Naming Convention. The contractor must ensure the “Data\_Quality\_Information > Lineage > Process\_Step” sections of the metadata record covers the details of any data processing along with pertinent geodetic associated information (including but not limited to Horizontal Coordinate System, Vertical Datum, Geoid, Ellipsoid, Epoch, Vertical Benchmark, etc.). Metadata should clearly address the data collection process and clearly describe the units for any collected or sampled parameters.
  
- c. **“spatial”** folder: XYZ data as a DEM or geoTIFF file, named using the File Naming Convention. Additionally, a text file named EPSG\_WKID.txt containing the EPSG Well-known ID (WKID) of the reference horizontal coordinate system must be included (<https://epsg.org/>).

*Table 1: Commonly used horizontal coordinate systems*

<b>Horizontal Coordinate System</b>	<b>Units</b>	<b>WKID</b>
NAD_1983_StatePlane_Louisiana_North_FIPS_1701	Meters	26981
NAD_1983_StatePlane_Louisiana_North_FIPS_1701	U. S. Feet	3451
NAD_1983_StatePlane_Louisiana_South_FIPS_1702	Meters	26982
NAD_1983_StatePlane_Louisiana_South_FIPS_1702	U. S. Feet	3452
NAD_1983_UTM_Zone_15N	Meters	26915
NAD_1983_UTM_Zone_16N	Meters	26916
GCS_WGS_1984	Degrees	4326

*Table 2: Geophysical Data Types*

<b>Data Type</b>	<b>CODE</b>
Bathymetry, Multibeam	ELMBB
Bathymetry, Singlebeam	ELSBB
Bathymetry, Unknown	BATHY
Lidar	ELLID
Isopach	ISPCH
Unknown	UNKNO

*File Naming Convention elements are separated by underscores as follows:*

- Element 1** Project: LA-0226 (Barrier Island Comprehensive Monitoring (BICM) Project ID)
- Element 2** Data Type Code: ELDEM (Digital Elevation Model)
- Element 3** Place: 0 (Single 0 for data delivered to CPRA)
- Element 4** Date Range: 1980999920069999 (Data was collected from 1980-2006)
- Element 5** Data Package Identifier: AGS0001 (A for analysis data, 6 alphanumeric characters for data package identifier)
- Element 6** Optional: ElevChange (Optional element used to identify this data package as an elevation change analysis deliverable)

**Data package deliverable folder name (Example):**

*MR\_LA-0226\_ELDEM\_0\_1980999920069999\_AGS0001\_ElevChange.zip*