Electronic Data Delivery (EDD) Guidelines

Sidescan Sonar Contacts Data Requirements

This document contains instructions for data delivery of **sidescan sonar contacts (points) data**. This document outlines the folder structure, file contents, and file naming requirements for the data deliverables.

A data deliverable must contain:

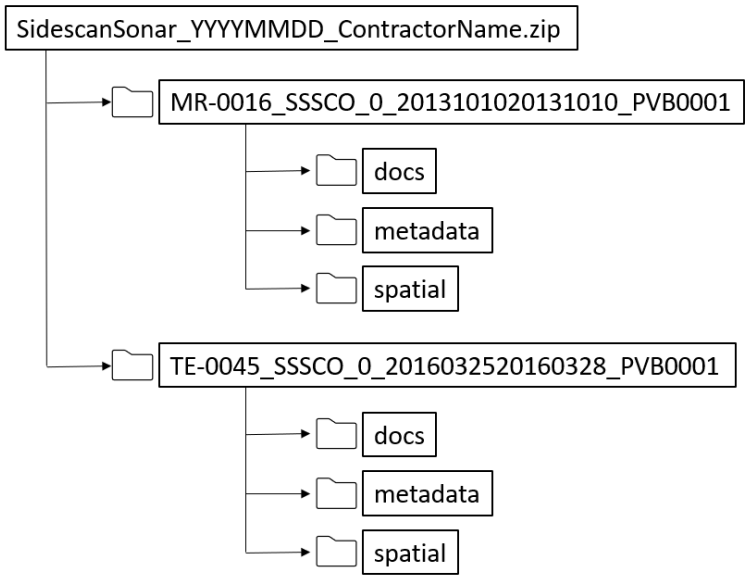
1. a GIS point layer, in Esri shapefile format describing the sonar contact with associated attribution,
2. metadata documents in *.html and *.xml format, and
3. optionally, other supporting documents such as images, maps, reports, etc.

All delivered spatial data must be provided in the Horizontal Coordinate System: UTM NAD83 Zone 15 (meters) and the Vertical Datum: NAVD88 (feet). Delivered files will be compressed into a single *.zip file named SidescanSonar_YYYYMMDD.zip, where 'YYYYMMDD' is the date the data package was delivered to CPRA, and whose structure, and contents are defined below.

Data deliverables for sidescan sonar data must include:

1) Zipped processed data package folder structure and contents:
Example:

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



a. "**docs**" folder: Associated files. That are not metadata, nor spatial data. These could include sidescan images, geological interpretations, reports, etc... NOTE: only PDFs, JPGs and ZIPs accepted. The name of the file should be stored in the DATAURL field of the spatial data.

b. "**metadata**" folder: Metadata - FGDC compliant metadata in XML and HTML format and named using the File Naming Convention.
    i. 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. The contractor must ensure the provided metadata addresses data (e.g., to reports, interpretations or images) to which each sidescan sonar contact will "link."

c. "**spatial**" folder: Vector locations as a GIS point layer using the Esri shapefile format following the CPRA templates for sidescan sonar contact data using the geometry and attribution information below and, named using File Naming Convention.:
    i. Attribute Specifications, Table: Sidescan Sonar Points *(also provided in Table 1 below)*
    ii. GIS Shapefile Template: Sidescan_Sonar_Points.shp

List of required attributes for each POINT included in a data deliverable.
(From – Attribute Specifications, Table: Sidescan Sonar Points)
*NOTE: The following special characters are NOT allowed within any elements: #, <, >, $, +, %, !, `, &, *, ', |, {, }, ?, ", =, /, :, \, ;, @, blank spaces or commas.*

Table 1: Attribute Specifications

Field Name	*Field Alias*	*Description*	*Specific GIS Data Type*	*If data value unknown, enter*
PROGRAM	Program	Program (CWPPRA, LCA, STATE, ...).	Text (20)	UNKNOWN
PROJECT	Project	Project name or title.	Text (200)	UNKNOWN
PROJ_ID	Project ID	Project number (state id, federal id, …).	Text (20)	UNKNOWN
DATE_COLL	Date Collected	Date collected (YYYYMMDD).	Text (10)	99999999
TARGET_ID	Target ID	Target identifier.	Text (50)	UNKNOWN
TYPE	Feature Type	Type of feature represented by the sonar contact.	Text (20)	UNKNOWN
FREQUENCY	Frequency of the System (kHz)	Frequency of the sonar system used to collect the sidescan data (measured in kHz).	Double (10,0)	-9999
DIM_L	Feature Length (ft)	Length of the feature (measured in feet).	Double (10,0)	-9999
DIM_W	Feature Width (ft)	Width of the feature (measured in feet).	Double (10,0)	-9999
DIM_H	Feature Height (ft)	Height of the feature (measured in feet).	Double (10,0)	-9999
X	X Coordinate (m)	Easting (X coordinate) value in meters for the sidescan sonar contact.	Double (10,2)	-9999
Y	Y Coordinate (m)	Northing (Y coordinate) value in meters for the sidescan sonar contact.	Double (10,2)	-9999
CONTRACTOR	Contractor	Name of contractor that collected the data.	Text (100)	UNKNOWN
ORG	Organization	Organization that ordered the work.	Text (100)	UNKNOWN

DATAURL	Additional Data	The file name of additional data file(s) associated with the feature that are located in the docs folder. Individual portable document format (pdf) or JPG files, such as an image, do not require zip compression. However, all other data files (csv, txt, xyz, etc…) including all multiple file combinations require zip compression.	Text (200)	UNKNOWN
Meta_xml	XML Metadata File	The CPRA File Naming Convention-compliant file name of the xml metadata file located in the metadata folder. Example: **MR-0016_SSSCO_0_2013101020131010_PVB0002.xml**	Text (200)	UNKNOWN
Meta_html	HTML Metadata File	The CPRA File Naming Convention-compliant file name of the html metadata file located in the metadata folder. Example: **MR-0016_SSSCO_0_2013101020131010_PVB0002.html**	Text (200)	UNKNOWN
COMMENTS	Comments	Special comments pertaining to a specific GIS record.	Text (250)	<NULL>

File Naming Convention elements are separated by underscores as follows:

Element 1 Project: MR-0016 (Mississippi River Hydrodynamic and Delta Management Study CPRA Project ID)
Element 2 Data Type Code: SSSCO (Sidescan Sonar Contact data)
Element 3 Place: 0 (Single 0 for data delivered to CPRA)
Element 4 Date: 2013101020131010 (Data was collected on a single day)
Element 5 Sequence: PVB0002 (Processed data, data provider/processor's initials "VB," sequence value of 0002)
Element 6 Optional: N/A (Since there is no optional value, the delimiter and any padding is eliminated)

Data package deliverable folder name (Example):
MR-0016_SSSCO_0_2013101020131010_PVB0002