

Required Metadata for Submission of Bathymetry to NOAA Office of Coast Survey

Please include the following metadata in a human or machine readable format. For questions email esd.team@noaa.gov. If fields marked as “Vital” are not available, it is necessary to populate the “Conditional” fields and we may follow up with additional questions.

Data Source Information			
ISO 19115 Metadata Term (not ISO)	Definition	Format	
Title	Name by which the cited resource is known. Aka Survey ID.	String	Required
Responsible Party	The authority which was responsible for the survey.	String	Required
Contact Info	Contact who can answer data collection questions	String	Required
Phone	Telephone number	String	Optional
Electronic Mail Address	Email address	String	Required
Online Resource	Website URL providing information about data if available	String	Optional
Legal Constraint: License	Official documentation stating the dataset is subject to a data license. Alternatively, the data contributor may sign the Data Permissions Form, which grants permission to (1) use the data to update NOAA navigational products and (2) release the data publicly on NCEI without restrictions.	String	Required

Quality of Bathymetric Data			
ISO 19115 Metadata Term (not ISO)	Definition	Format	
Acquisition Start Date Time	The start date of the survey.	YYYYMMDD	Required
Acquisition End Date Time	The end date of the survey.	YYYYMMDD	Required
Vertical Coordinate Reference System	The attribute is used to specify the datum to which both elevations and soundings are referenced.	String	Required
Vertical Unit of Measure	The attribute encodes the units of measurement for depths.	String	Required
Positional Accuracy Vertical	The best estimate of the fixed vertical accuracy component for depths, heights, vertical distances and vertical clearances. Unit meter.	Float	Vital
Horizontal Coordinate Reference System	Horizontal reference surface or the reference coordinate system used for geodetic control in the calculation of coordinates of points on the earth.	OGC WKT	Required
Positional Accuracy Horizontal	The best estimate of the accuracy of a position. The expected input is the maximum of the two-dimensional error. Unit meter.	Float	Vital
(Full Bathymetric Coverage Achieved)	A True value is an indication that full depth measurement coverage for an area covered by hydrographic survey(s) has been achieved.	True / False	Vital
(Full seafloor Coverage Achieved)	A True value is an indication that full seafloor coverage for an area covered by hydrographic survey(s) has been achieved.	True / False	Vital
(Resolution)	The resolution of the provided data for which the coverage information is accurate. For gridded data this could be assumed to be the cell size if appropriate.	Float	Vital

(Significant Features Detected)	A True value is an indication that the characteristics of a hydrographic survey are such that significant seafloor features could be detected.	True / False	Vital
(Least Depth of Detected Features Measured)	A True value is an indication that the characteristics of a hydrographic survey are such that the least depth of significant seafloor features can be determined.	True / False	Vital
(Size of Features Detected)	The size of the smallest feature that the survey was capable of detecting with a high probability. Unit cubic meters. NOAA Guidance: For single resolution surfaces, the size of detected bathymetric features is 2x the resolution of the surface. For variable resolution surfaces, the size of detected bathymetric features is 2x the finest resolution of the surface.	Float	Vital

Survey Equipment and Process Steps			
ISO 19115 Metadata Term (not ISO)	Definition	Format	
(Multibeam Sensor)	List the specific models of multibeam sensors used during data acquisition, if applicable.	String	Required
(Vertical Beam Sensor)	List the specific models of vertical beam sensors used during data acquisition, if applicable.	String	Required
(Side Scan Sensor)	List the specific models of side scan sensors used during data acquisition, if applicable.	String	Required
(Lidar Sensor)	List the specific models of lidar sensors used during data acquisition, if applicable.	String	Required
(Interferometric Sensor)	List the specific models of interferometric sensors used during data acquisition, if applicable.	String	Required
(Attitude and Positioning Equipment)	List the specific models of attitude and positioning equipment used during data acquisition, if applicable.	String	Conditional
(Sound Velocity Sensors)	List the specific models of sound velocity sensors used during data acquisition, if applicable.	String	Conditional
(Sound Velocity Processing)	Describe the sound velocity processing that was applied to the data, if applicable.	String	Conditional
(Vertical Datum Processing)	Describe the processing used to shift the data to the appropriate vertical datum, if applicable.	String	Conditional
(Processing Software)	List the software used to process the data.	String	Conditional