

Data Types: (from original SOW)

Category	Product	Data Type	Preferred Format
Cruise Info	Cruise Tracks	GIS layer(s)	ESRI Geodatabase Feature Class (point/line)
	Cruise Reports/Logs	Digital Documents	PDF
Acoustic	Acoustic Intensity mosaics (composition/roughness/texture)	Rasters	ESRI Grid, GeoTiff
	Topographic mosaics (bathymetry)	Rasters	ESRI Grid, GeoTiff
	Sub-Bottom images	GIS layer(s) & images subbottom data	ESRI Geodatabase Feature Class (line), JPEG, SEG Y
Sampling	Station Data (Biology/Geology/Chemical/Physical)	GIS layer(s)	ESRI Geodatabase Feature Class (point/line/poly)
	Video	Digital Movies	MOV
	Photos	Digital Photos	JPEG
Geospatial Interpretations	Ecological/Habitat Data	GIS layer(s)	ESRI Geodatabase Feature Class (point/line/poly)
	Sediment Texture/Grain Size	GIS layer(s)	ESRI Geodatabase Feature Class (point/poly)
	Sedimentary Environments (Chem/Organic/Inorganic)	GIS layer(s)	ESRI Geodatabase Feature Class (poly)
Maps/Reports	Analysis Reports/Summaries	Digital Documents	PDF
	Cartographic Maps	Digital Documents	GeoPDF

Field Data

Cruise Info (Cruise level metadata)

- Lead Investigator (with email address)
- Cruise ID
 - Adopt a naming scheme, e.g. LIS<YY><SS><NN> with YY standing for the year (e.g. 12), SS an acronym for the vessel (e.g. UC for UConn) and NN a running number (e.g. 01).
(NOAA cruises have their one ID/labels Hxxxx that can be used as well)
 - Examples:
 - UConn: LIS12UC01 or LIS_UC1201
 - SeaWolf: LIS12SW01 or LIS_SW1202
- Start/End Date & Ports
- Cruise Report (PDF)
 - file name suggestion: CRUISEID.pdf
- Nav track
 - filename suggestion CRUISEID.nav

Raw Files & Directories

General guideline is to use standard file naming convention with date/time stamp included in filename. Data should be organized based on device make/model.

- MBES/SS raw data files
- Subbottom raw data files (SEGY)
- CTD
 - Include date/time and station ID
- Photos
 - Use date/time stamp as file name:
YYYYMMDDHHMMSS.jpg or YY_MM_DD_HH_MM_SS.jpg
- Videos
 - Use start date/time as file name:
YYYYMMDDHHMMSS.mov or YY_MM_DD_HH_MM_SS.mov

Sample/Station Info

Metadata should be based on needs of consortium - particularly based on the needs of folks who need to directly share samples. Based on sampling method, (e.g. grab, core, etc), metadata templates can be generated through SESAR (<http://www.geosamples.org>). All Samples registered through SESAR are issued a unique ID (IGSN).

- Suggested Minimum Metadata for Samples/Stations:
 - CruiseID
 - Investigator(s)
 - Date/Time
 - Lat/Long (choose standard degree of precision)
 - Sampling Device
 - Material Type
 - Storage Facility (if applicable)
- Suggested Optional Metadata for Samples/Stations:
 - Visual Observations/Description
 - Size of sample
 - Photograph(s)
 - Intended Purpose
- Naming convention suggestion: Include indicator of Cruise ID, Material Type and/or intended purpose, and index, e.g.:
 - *LIS_SW1201_Sed01*

Derived Data

Grids and ESRI shapefiles can be introspected to extract basic geospatial metadata, so additional information that could be provided include related CruiseID(s), Investigator(s), Device(s), and an optional description. CruiseID and Device Info will help to relate derived data to raw data. Standard file naming conventions for derived products should probably be based on survey area, resolution, and content.