



Deep sea surveys – data schema v1.3 - 2023.03.20

Feature layer	Attribute	Description	Datatype	Geometry
Assessment_area	Featureclass that shows the area proposed by the Norwegian Government to assess seabed minerals			polygon
	Name	<i>Decriptive name of feature</i>	varchar(100)	
	Description	<i>Description</i>	varchar(500)	
	Date_updated	<i>Last updated feature date</i>	date	
	AreaKm2	<i>Calculated area in km2</i>	varchar(8)	
	Reference_norwegian	<i>URL to official governmental reference</i>	varchar(200)	

Proposed_opening_area	Featureclass that shows areas used for estimation purposes			polygon
	Name_NO	<i>Decriptive name of feature in norwegian</i>	varchar(50)	
	Name_EN	<i>Decriptive name of feature in english</i>	varchar(50)	
	Desc_NO	<i>Description in norwegian</i>	varchar(500)	
	Desc_EN	<i>Description in english</i>	varchar(500)	
	Reference_norwegian	<i>URL to official governmental reference</i>	varchar(200)	
	Date_updated	<i>Last updated feature date</i>	date	
	AreaKm2	<i>Calculated area in km2</i>	varchar(8)	

Placename	Featureclass for placenames or POI's with regards to certain geological locations of interest			point
	Name	<i>Name of point or area</i>	varchar(50)	

Resource_estimate_area	Featureclass that shows the proposed opening area for seabed mineral activities			polygon
	Name_NO	<i>Decriptive name of feature in norwegian</i>	varchar(50)	
	Name_EN	<i>Decriptive name of feature in english</i>	varchar(50)	
	Desc_NO	<i>Description in norwegian</i>	varchar(500)	
	Desc_EN	<i>Description in english</i>	varchar(500)	
	Reference_norwegian	<i>URL to official governmental reference</i>	varchar(200)	
	Area_kind	<i>Type, manganese crust or sulphide</i>	varchar(50)	
	Area_number	<i>Numerical area number</i>	varchar(10)	
	AreaKm2	<i>Calculated area in km2</i>	varchar(8)	
	Map_color	<i>RGB value of color used in map</i>	varchar(20)	
	Date_updated	<i>Last updated feature date</i>	date	

Sample_locations	Featureclass showing locations where seabed samples have been extracted. Either by grab, scoop, drilling etc.			point
	NPD_survey_name	<i>NPD defined name of the survey</i>	varchar(12)	
	Sample_name	<i>Name of taken sample</i>	varchar(50)	
	Utility	<i>Used utility to extract the sample</i>	varchar(12)	

	Sample_type	<i>Sample classification with allowed values like: sediment, basalt, biological, crust, magmatic rock, other</i>	varchar(12)	
	Method	<i>Used sampling method with allowed values like: core, cutting, grab/scoop, push core, suction, other</i>	varchar(12)	
	Description	<i>Description of sample. Can include an assessment of the main lithology</i>	varchar(500)	
	Comment	<i>Other information</i>	varchar(500)	
	Depth	<i>Depth where the sample was taken</i>	varchar(8)	
	Image	<i>Was the datatype retrieved, yes/no</i>	varchar(5)	
	Video	<i>Was the datatype retrieved, yes/no</i>	varchar(5)	
	Retrieval_date	<i>Date when the sample was extracted</i>	date	

Survey_lines	Feature class showing actual runlines from performed surveys. Lines			line
	NPD_survey_name	<i>NPD defined name of the survey</i>	varchar(12)	
	Subarea	<i>Name or designation of subareas within the same survey</i>	varchar(200)	
	MAG	<i>Magnetometer. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	MBES	<i>Multibeam Echo Sonar, that collects bathymetry and backscatterdata. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	METS	<i>Methane and temperature sensor. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	SAS	<i>Synthetic Aparature Sonar. Covers also HiSAS. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	SBP	<i>Sub Bottom Profile. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	SP	<i>Marine self-potential (SP). The method is used to explore for hydrothermal venting and associated seafloor mineralization. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	SSS	<i>Side Scan Sonar. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	Waterchemistry	<i>The term covers datatypes like ph-ORP-Turbidity-Temp, as well as CTD, conductivity, temerature, depth. Attribute indicates collection of data with yes/no</i>	varchar(5)	
	Video	<i>Attribute indicates collection of data with yes/no</i>	varchar(5)	
	Image	<i>Attribute indicates collection of data with yes/no</i>	varchar(5)	
	Survey_vehicle_type	<i>Used vehicle type to perform the survey. Allowed values include, Ship, AUV, ROV</i>	varchar(100)	
	Survey_equipment	<i>Description of what kind of AUV, ROV</i>	varchar(100)	
	Comment	<i>Comment</i>	varchar(500)	

Survey_area	Feature class showing surveyareas including metadata regarding the			polygon
	NPD_survey_name	<i>NPD defined name of the survey</i>	varchar(12)	
	Area_name	<i>Areaname either used during the survey or general known areas</i>	varchar(200)	
	Survey_year	<i>The year when the servey was performed</i>	varchar(5)	
	Survey_name	<i>Survey name defined by responsible company/institution</i>	varchar(200)	
	Subarea	<i>Name or designation of subareas within the same survey</i>	varchar(200)	
	Purpose	<i>Purpose of the survey</i>	varchar(25)	
	Description	<i>A general description of the survey</i>	varchar(400)	
	Survey_vehicle_type	<i>Used vehicle type to perform the survey. Allowed values include, Ship, AUV, ROV</i>	varchar(100)	
	Survey_equipment	<i>Description of what kind of AUV, ROV,</i>	varchar(100)	
	Survey_sensor	<i>Description of the different type of sensors that where used in the survey</i>	varchar(200)	
	Resolution	<i>Description of resolutions if avaiable, ex. MBES-50m</i>	varchar(200)	
	Km2_subarea	<i>Area covered in subarea of survey. Unit km2</i>	varchar(8)	
	Km2_survey_total	<i>Total area covered in survey. Unit km2</i>	varchar(8)	
	Comment	<i>Other information</i>	varchar(500)	
	Company	<i>Name of the company or institution responsible for the survey</i>	varchar(25)	
	Vessel	<i>Name of the survey vessel</i>	varchar(25)	
	IMO	<i>IMO number of the survey vessel</i>	varchar(9)	