





















IOGP Seabed Survey Data Model (SSDM) Version 2






















Sample Symbology Style Sheet

This document provides a core list of the symbology codes and associated symbology styles in CAD and GIS format for the SSDM feature classes. The symbols are coded in the format of "IOGPxxxx". This would enable quick and easy matching to the values of "Symbology_Code" field in the data model within ArcMap. O&G companies may adapt and/or extend the symbology codes and define their own cartographic symbology for the existing core codes and new codes.




























Marker Symbols (Point)

Seabed Features



	IOGP1001 Coral Pinnacle
	IOGP1002 Coral spotheight
	IOGP1003 Seabed Mound
	IOGP1004 Sidescan Sonar Contact
	IOGP1005 Isolated Depression or Pockmark
	IOGP1006 Sonar Contact - Water Column
	IOGP1007 Boulder
	IOGP1008 Shallow Gas
	IOGP1009 Megaripple Crest
	IOGP1010 Anchor
	IOGP1011 Anchor Chain
	IOGP1012 Cable/Wire
	IOGP1013 Soft rope
	IOGP1014 Fishing net
	IOGP1015 Scaffolding
	IOGP1016 Pipe
	IOGP1017 Drum
	IOGP1018 Metal
	IOGP1019 Concrete
	IOGP1020 Plastic/Metal Container




	IOGP1021 Debris/Suspected Debris
	IOGP1022 Wreck
	IOGP1023 Fish Trap
	IOGP1024 Mine only
	IOGP1025 Mine Sinker only
	IOGP1026 UXO (Unexploded Ordinance)
	IOGP1027 Unidentified
	IOGP1028 Possible Boulder
	IOGP1029 Possible Mine
	IOGP1030 Possible UXO (Unexploded Ordnance)
	IOGP1031 Post Drill Well
	IOGP1032 Unidentified Debris
	IOGP1033 Anchor Pull-out Pit
	IOGP1034 Magnetometer
	IOGP1035 Megaripple Orientation
	IOGP1036 Biogenic Feature
	IOGP1037 Trawl board
	IOGP1038 Tarpaulin
	IOGP1039 Mine with sinker
	IOGP1040 Identified Debris
	IOGP1041 Other

Environmental Samples














	IOGP1101 Sampling Borehole		IOGP1114 Jumbo Core
	IOGP1102 Pilot Borehole		IOGP1115 Vibro Core
	IOGP1103 CPT Borehole		IOGP1116 Gravity Core
	IOGP1104 PCPT Borehole		IOGP1042 Geotechnical Sample
	IOGP1105 Composite Sampling and CPT Borehole		IOGP1043 Benthic Sample
	IOGP1106 Hydraulic Fracture (Packer) Test Borehole		IOGP1044 SPI-Sediment Profile Index
	IOGP1107 Box Core		IOGP1045 Soil/Sediment Sample
	IOGP1108 Seabed CPT		IOGP1046 Water Sample
	IOGP1109 Seabed PCPT		IOGP1047 Video Sample (ROV/AUV)
	IOGP1110 Grab sample		IOGP1048 VELO-Velocimeter
	IOGP1111 Piston Core		IOGP2007 Camera Transect
	IOGP1112 Seismic PCPT		IOGP1201 TSDip
	IOGP1113 Multi Core		IOGP1204 Geochemical Sample
			IOGP1206 Heat Flow Measurement

Shallow and Intermediate Geologic Zone

-  IOGP1301 High Amplitude Anomaly
-  IOGP1302 Phase Reversal




































-  IOGP1303 Velocity Pulldown
-  IOGP1304 Acoustic Diffraction
-  IOGP1305 Acoustic Blanking/Masking

Survey Measurements

-  IOGP1306 Shotpoint at Antenna Position
-  IOGP1307 Shotpoint at Boomer Position
-  IOGP1308 Shotpoint at Common Depth Point (CDP)
-  IOGP1309 Shotpoint at Echo-Sounder Position
-  IOGP1310 Shotpoint at Receiver Group Position
-  IOGP1311 Shotpoint at Pinger Position
-  IOGP1312 Shotpoint at Bin Centre Position
-  IOGP1313 Shotpoint at SSS Position / Centre of Source
-  IOGP1314 Shotpoint at Towfish/Tailbuoy Position
-  IOGP1315 Shotpoint at USBL Position
-  IOGP1316 Shotpoint at Vessel Reference Point
-  IOGP1317 Shotpoint at Magnetometer Position
-  IOGP1202 Spot Elevation

Line Symbols


Seabed Features


-  IOGP2001 Anchor scar/Plough mark
-  IOGP2002 Linear debris
-  IOGP2003 Spud Can Drag Scar
-  IOGP2004 Trawl Scar
-  IOGP2005 Possible wreck
-  IOGP2006 Plough Mark - Iceberg
-  IOGP2050 Ridge Axis
-  IOGP2051 Fault Scarp
-  IOGP2052 Scarp/Escarpment
-  IOGP2053 Lineament/Linear Feature
-  IOGP2054 Channel/Superficial Channel
-  IOGP2055 Mud Flow
-  IOGP2056 Mound
-  IOGP2057 Bulge
-  IOGP2058 Diapiric structure
-  IOGP2059 Ridge
-  IOGP2061 Deposition - Rockfall
-  IOGP2062 Deposition - Creep
-  IOGP2063 Deposition - Slide
-  IOGP2064 Deposition - Rotated Slide
-  IOGP2065 Deposition - Slump/Slope Failure
-  IOGP2066 Deposition - Debris Flow
-  IOGP2067 Deposition - Grain/Fluidized Flow
-  IOGP2068 Deposition - Turbidite
-  IOGP2069 Sand Wave Crest
-  IOGP2070 Though Axis
-  IOGP2071 Boundary - Outcrop
-  IOGP2072 Boundary - Sediment
-  IOGP2073 Boundary - Others
-  IOGP2074 Inferred Boundary - Sediment
-  IOGP2075 Anchor Chain/Wire Scar
-  IOGP2076 Bedrock
-  IOGP2077 Area of Depression
-  IOGP2078 Cable
-  IOGP2079 Other (Use Comments)


Environmental Samples


-  IOGP2007 Camera Transect
-  IOGP2211 Video Track


Shallow and Intermediate Geological Zone


 IOGP2010 Geological Profile


 IOGP2011 Bathymetric


 IOGP2012 Refraction Profile


 IOGP2109 Polygonal fault


 IOGP2110 Radial Fault

 IOGP2111 Normal Fault

 IOGP2112 Thrust Fault

 IOGP2113 Reverse Fault

 IOGP2114 Strike-Slip Fault

 IOGP2115 Inactive Fault

 IOGP2201 Major Isopach Contours to base of Unit A

 IOGP2202 Minor Isopach Contours to base of Unit A

 IOGP2203 Major Isopach Contours to base of Unit B

 IOGP2204 Minor Isopach Contours to base of Unit B

 IOGP2205 Major Isopach Contours to base of Unit C

 IOGP2206 Minor Isopach Contours to base of Unit C


 IOGP2207 Major Isopach Contours to base of Unit D

 IOGP2208 Minor Isopach Contours to base of Unit D

 IOGP2209 Major Structure Contours


 IOGP2210 Minor Structure Contours

 IOGP2501 Erosional/Truncation Surfaces


 IOGP2502 Hydrate Zones


 IOGP2503 Gas-charged Sediments


 IOGP2504 Shallow Water Flow Zones

 IOGP2505 Buried Channels

 IOGP2506 Diapiric Structures

 IOGP2507 Salt Bodies

 IOGP2508 Slumps/Chaotic Zones

 IOGP2509 Contourites

 IOGP2510 Debris Flow / Mass Flow


 IOGP2511 Sink Holes / Collapse Feature

 IOGP2512 Buried Reef

 IOGP2513 Syncline

 IOGP2514 Anticline


 IOGP2515 Hydrocarbon accumulation


 IOGP2516 Buried depression


 IOGP2517 High Impedance Reflector


 IOGP2518 Other

 IOGP2519 Abnormal Pressure Zones


 IOGP2520 Shallow Gas Zone

 IOGP2121 Palaeo-Channel R1

 IOGP2122 Palaeo-Channel R2

 IOGP2123 Palaeo-channel R3

 IOGP2124 Palaeo-channel R4

 IOGP2125 Base of channel depth below seabed - R1

 IOGP2126 Base of channel depth below seabed - R2

 IOGP2127 Base of channel depth below seabed - R3

 IOGP2128 Base of channel depth below seabed - R4


Survey Measurements

 IOGP2301 Navigation Track at Antenna Position

 IOGP2302 Navigation Track at Boomer Position


 IOGP2303 Navigation Track at CDP Position


 IOGP2304 Navigation Track at Echo-Sounder Position


 IOGP2305 Navigation Track at Receiver Group Position

 IOGP2306 Navigation Track at Pinger Position

 IOGP2307 Navigation Track at Bin Centre Position

 IOGP2308 Navigation Track at SSS Position/Centre of Source


 IOGP2309 Navigation Track at Towfish/Tailbuoy Position


 IOGP2310 Navigation Track at USBL Position

 IOGP2311 Navigation Track at Vessel Reference Point

 IOGP2312 Navigation Track at Magnetometer













































































 IOGP2313 Proposed Survey Run Lines

 IOGP2701 Major contours





 IOGP2702 Minor contours






Fill Symbols (Polygon)

Seabed Features
























	IOGP3001 Isolated pockmark		IOGP3062 Deposition - Creep
	IOGP3002 Pockmark Cluster		IOGP3063 Deposition - Slide
	IOGP3003 Coalesced/Combined Pockmark		IOGP3064 Deposition - Rotated Slide
	IOGP3004 Sand Ripples		IOGP3065 Deposition - Slump/Slope Failure
	IOGP3005 High Intensity Backscatter		IOGP3066 Deposition - Debris Flow
	IOGP3006 Jack-up rig / Spudcan Footprint		IOGP3067 Deposition - Grain/Fluidized Flow
	IOGP3007 Mound Cluster		IOGP3068 Deposition - Turbidite
	IOGP3008 Pitted Seabed		IOGP3069 Mass-Transport Deposit Area
	IOGP3009 Sonar/Hard Contact		IOGP3071 Boundary - Outcrop
	IOGP3010 Coral		IOGP3072 Boundary - Sediment
	IOGP3011 Biologically Sensitive (Chemosynthetic Communities)		IOGP3073 Boundary - Others
	IOGP3012 Channel Floor		IOGP3074 Inferred Boundary - Sediment
	IOGP3013 Hillock/Hummocky Seafloor Topography Area		IOGP3075 Areas with Numerous boulders
	IOGP3014 Expulsion Feature		IOGP3076 Areas with Occasional boulders
	IOGP3015 Sediment Waveform		IOGP3077 Outline of Corals from acoustic data
	IOGP3016 Plough Mark - Iceberg		IOGP3078 Area of Anchor/Wire scars
	IOGP3017 Anchor Pull-out Pit		IOGP3079 Area of Bedrock
	IOGP3021 Rock Dump		IOGP3080 Possible UXO (Unexploded Ordinance)
	IOGP3022 Soil Dump		IOGP3081 Expelled Material
	IOGP3023 Dredged Area - Trench		IOGP3082 Debris Disposal Path
	IOGP3024 Dredged Area - Borrow		IOGP3083 Seafloor Amplitude Anomalies
	IOGP3025 Debris		IOGP3084 Seafloor Furrow/Grooves
	IOGP3026 Disturbed Sediment		IOGP3085 Irregular Debris
	IOGP3027 Depression		IOGP3086 Gully (Rotate Arrows to Direction of Flow)
	IOGP3028 Mound - Mud/Mud Lumps		IOGP3087 Canyon
	IOGP3029 Eroded/Thinned drape		IOGP3088 Erosional Escarpment
	IOGP3030 Shoal Area/Shallow Water Hazard		IOGP3089 Sediment Transport Pathway
	IOGP3031 Fish Traps		IOGP3090 Biogenic/Environmental
	IOGP3032 Shallow Gas Vents		IOGP3091 Anchor Pull Out Pit
	IOGP3033 Mud Volcanoes		IOGP3092 Megaripple Orientation
	IOGP3034 Mound - Hydrate		IOGP3093 Coarse Sediment
	IOGP3035 Collapse Features		IOGP3094 Heavily Faulted Zone
	IOGP3036 Scour		IOGP3095 Low Intensity Backscatter
	IOGP3037 Drills Cuttings		IOGP3096 High Sonar Reflectivity
	IOGP3051 Sand Bar		IOGP3097 Low Sonar Reflectivity
	IOGP3052 Mega Ripples		IOGP3098 Potential Hardgrounds (MBES Backscatter)
	IOGP3058 Diapiric Structures		IOGP3099 Mottled Seafloor
	IOGP3061 Deposition - Rockfall		IOGP3100 Pressure Ridge

























Seabed Sediment

	IOGP3101 Gravel
	IOGP3102 Sand
	IOGP3103 Silt
	IOGP3104 Clay



	IOGP3201 Silty -Sand
	IOGP3202 Clayey-Sand
	IOGP3203 Silty Clay
	IOGP3204 Sandy-clay
	IOGP3205 Rocky



Shallow and Intermediate Geologic Zone

	IOGP3400 Normal Fault
	IOGP3401 Thrust Fault
	IOGP3402 Reverse Fault
	IOGP3403 Strike-Slip Fault
	IOGP3404 Inactive Fault
	IOGP3405 Erosional/Truncation Surfaces
	IOGP3406 Gas-charged Sediments
	IOGP3407 Shallow Water Flow Zones
	IOGP3408 Buried Channels
	IOGP3409 Diapiric Structures
	IOGP3410 Salt Bodies
	IOGP3411 Slumps/Chaotic Zones
	IOGP3412 Contourites
	IOGP3413 Debris Flow / Mass Flow
	IOGP3414 Sink Holes / Collapse Feature
	IOGP3415 Buried Reef
	IOGP3416 Syncline
	IOGP3417 Anticline
	IOGP3418 Hydrocarbon accumulation
	IOGP3419 Buried depression
	IOGP3420 Other
	IOGP3421 Abnormal Pressure Zones
	IOGP3422 Absence of Reflector

	IOGP3423 Deposit/Buried Mudflow
	IOGP3424 Mapped Horizon Outcrop
	IOGP3425 Bottom Simulating Reflector
	IOGP3426 Buried Crater
	IOGP3427 Buried Mound
	IOGP3428 Fractured Zone
	IOGP3429 Rafted Block
	IOGP3430 Buried Hardgrounds/Mudflow
	IOGP3723 Cross Bedding
	IOGP3724 Shallow Gas Zone
	IOGP3701 Anomaly 1 High Amplitude
	IOGP3702 Anomaly 2 High Amplitude
	IOGP3703 Anomaly 3 High Amplitude
	IOGP3704 Anomaly 4 High Amplitude
	IOGP3705 Anomaly 5 High Amplitude
	IOGP3706 Anomaly 6 High Amplitude
	IOGP3707 Anomaly 7 High Amplitude
	IOGP3708 Anomaly 8 High Amplitude
	IOGP3709 Anomaly 9 High Amplitude
	IOGP3710 Anomaly 10 High Amplitude
	IOGP3721 Acoustic Blanking Zone
	IOGP3725 Phase Reversal
	IOGP3726 Velocity Pulldown
	IOGP3727 Acoustic Diffraction

Survey Measurements

	IOGP3301 Limit of Survey Area
	IOGP3302 Limit of Analogue and Digital Coverage

	IOGP3303 Limit of Analogue Survey Coverage
	IOGP3304 Limit of Digital Survey Coverage