

ESRI ArcGIS USGS/FGDC Geologic Mapping Template

Geodatabase Schema Diagram

This diagram shows the key classes of ESRI's template geodatabase for creating geologic maps compliant with the *FGDC Digital Cartographic Standard for Geologic Map Symbolization* (FGDC Document Number FGDC-STD-013-2006). This database is part of a map template available on <http://resources.esri.com>.

Feature Classes

Simple feature class MapUnitPolygons									
Field name	Data type	Allow nulls	Default value	Domain	Pre-10.0 Scale Length	Geometry	Feature Class	Contains 2 values	Contains 2 values
OBJECTID	Object ID	Yes							
Shape	Geometry	Yes							
MapUnitName	String	Yes			256				
Label	String	Yes			256				
ICoord	Short Integer	No	1	Confidence	0				
ECoord	Short Integer	No	0	Confidence	0				
MapUnitID	Long Integer	No	-1		256				
MapUnitDesc	String	Yes			256				
Shape_Length	Double	Yes			0				
Shape_Area	Double	Yes			0				
GeographicID	Long Integer	Yes		AggrID	0				
MapUnitDesc_ID	Long Integer	Yes			0				

Contains polygons for geologic units. The mapping geologist will assign colors to use layer based on this data and save these symbols as cartographic representations. Further, the mapping geologist may optionally create an additional layer and cartographic representations showing pattern overlays for any units that require such symbology.

Simple feature class Bedding							Geometry	Area
Field name	Data type	Allow nulls	Default value	Domain	Pre-10.0 Scale	Length	Contains 2 values	Contains 2 values
OBJECTID	Object ID	Yes						
Shape	Geometry	Yes						
Imp_Type	String	Yes			256			
Asymth	Float	No	0	Asymth	0			
Indication	Float	No	0	Indication	0			
SymblRotation	Float	No	0		0			
Label	String	Yes			256			
LocationConfidence	Float	No	0		0			
ICoord	Short Integer	No	1	Confidence	0			
MapUnitName	String	Yes			256			
MapUnitID	Long Integer	No	-1		256			
MapUnitDesc	String	Yes			256			
MapUnitDesc_ID	Long Integer	No	-1		256			
OrientationConfidence	Float	No	0		0			
Notes	String	Yes			256			
Bedding_Map_Rules	String	Yes		Bedding_Map_Rules	0			
OrientationConfidence	Float	No	0		0			
Notes	String	Yes			256			
Bedding_Map_Rules	String	Yes			0			
OrientationConfidence	Float	No	0		0			
Notes	String	Yes			256			
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