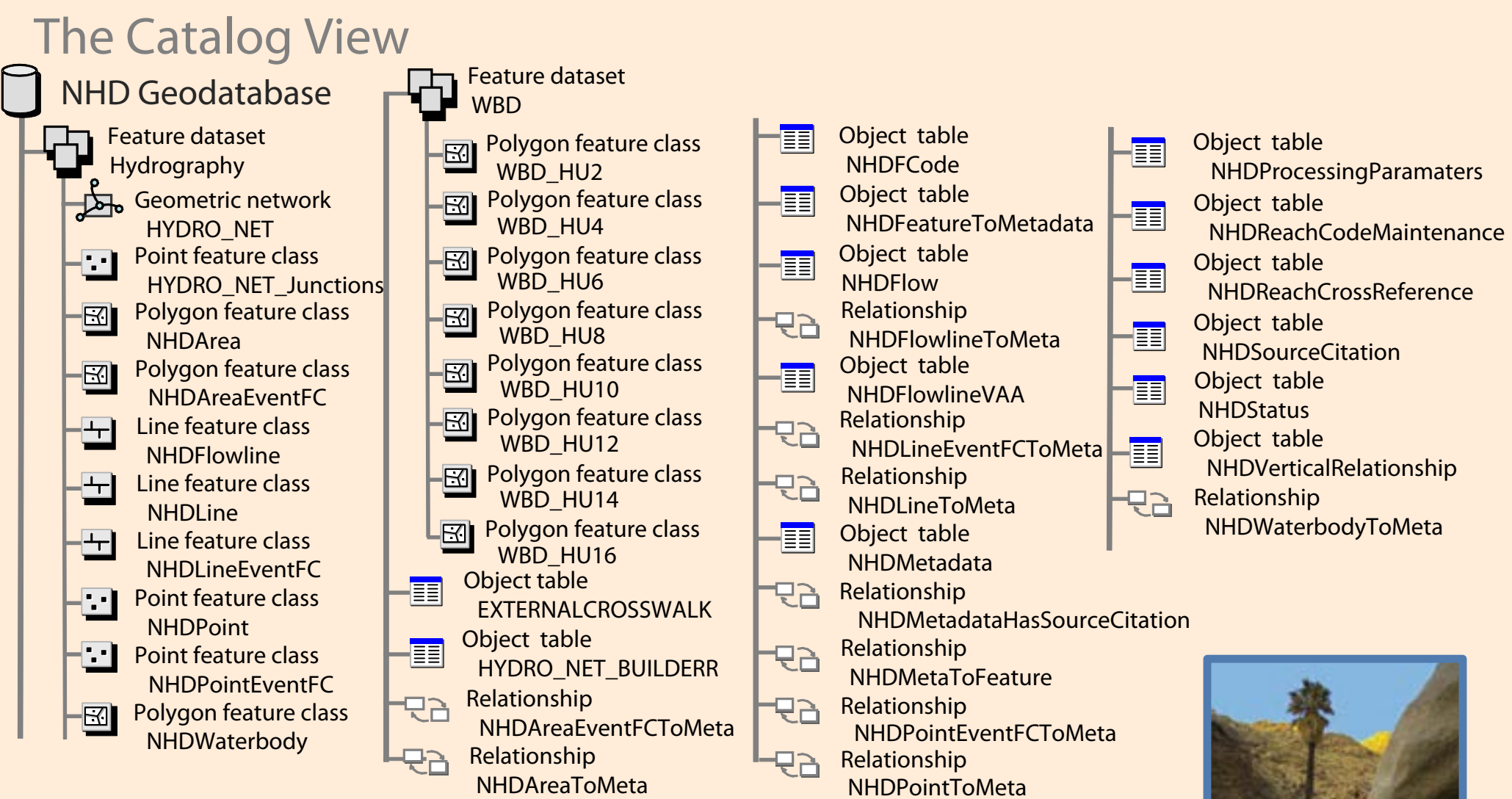


# National Hydrography Dataset (NHD) Model (v2.2)

## FEATURE CLASSES



### Attribute Tables

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDCode	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDFlow	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDFlowlineVAA	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDRelationship	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDCrosswalk	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDProcessingParameters	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDStatus	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDReachCrossReference	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

### FEATURE CLASSES

Simple feature class	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDPoint	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Subtypes of NHDFlowline	Subtype Name	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length
Table NHDFlowlineVAA	Subtype	OBJECTID	OID	OBJECTID			1			
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Subtypes of NHDWaterbody	Subtype Name	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length
Table NHDWaterbody	Subtype	OBJECTID	OID	OBJECTID			1			
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

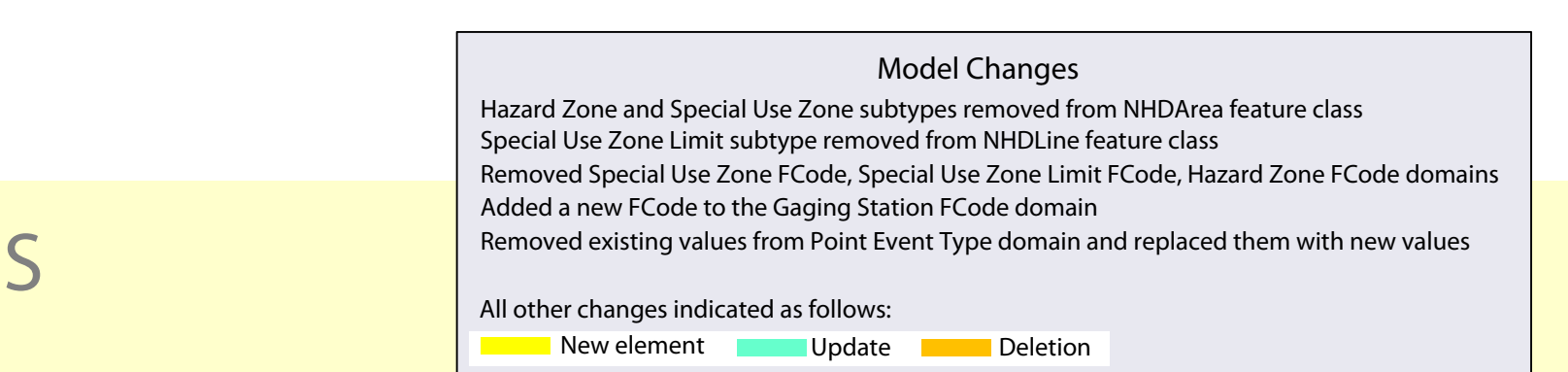
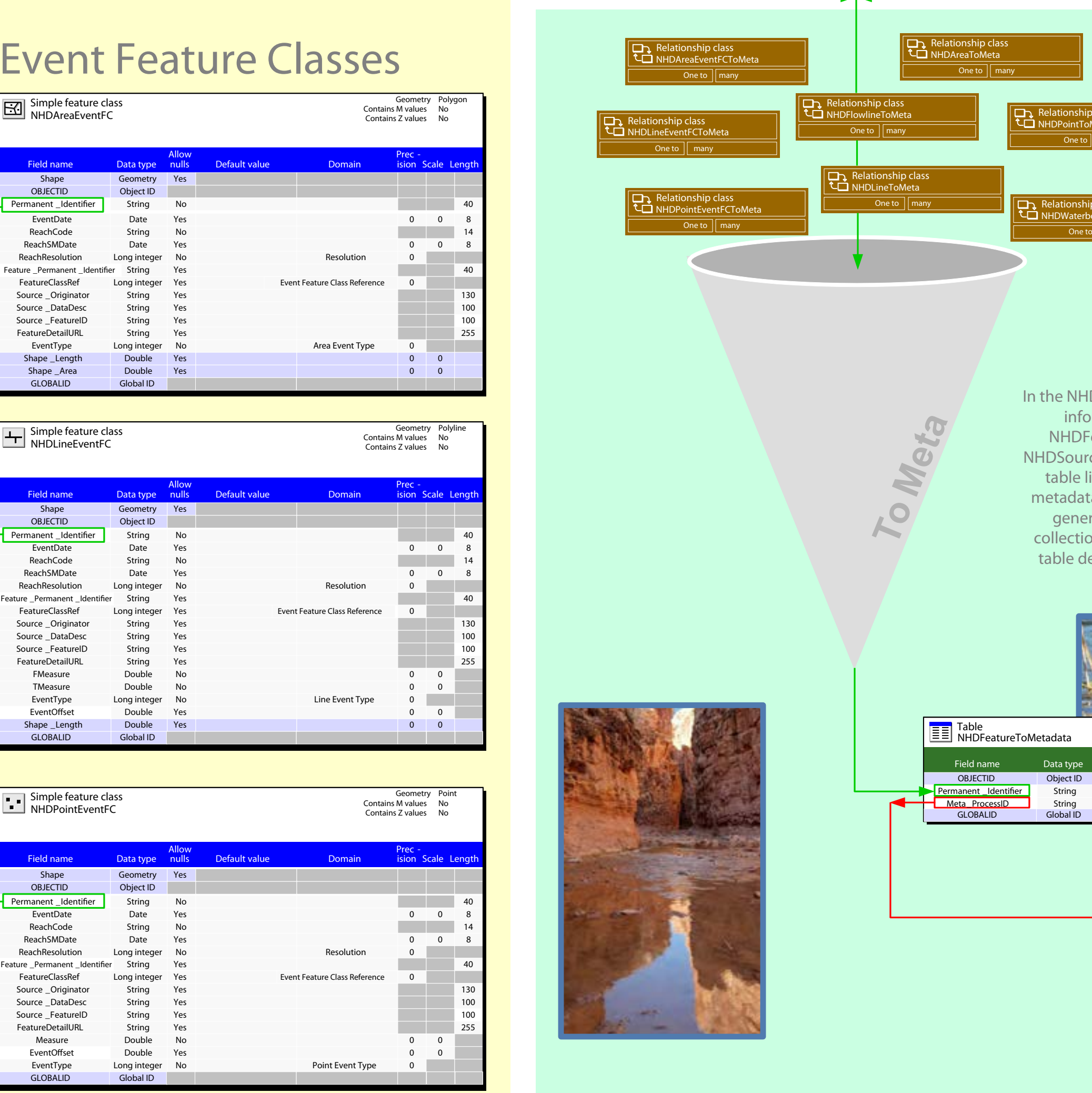


Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDLine	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDWaterbody	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDWaterbody	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

Table	Field Name	Data Type	Alias	Default Value	Domain	PK	SR	Scale	Length	
Table NHDWaterbody	OBJECTID	OID	OBJECTID			1				
	PERMANENT_IDENTIFIER	String	Perm ID					40		
	SHAPE	Shape								
	SHAPE_LENGTH	Double	Length					4	38	
	SHAPE_AREA	Double	Area					4	38	
	FEATURECLASS	String	Feature Class						255	
	DESCRIPTION	String	Description						255	
	REACH_CODE	String	Reach Code						255	
	REACH_CODE_MANTISSA	String	Reach Code Mantissa						255	
	REACH_CODE_SUFFIX	String	Reach Code Suffix						255	

## FCode (Feature) Domains

## Non-FCode Domains

## Water Boundary Dataset (WBD) Feature Classes

## Processing

## Feature Metadata

In the NHD geodatabase, feature-level metadata information is included in three tables: NHDFeatureToMetadata, NHDMetadata, and NHDSourceCitation. The NHDFeatureToMetadata table links the features to their instances of metadata. The NHDMetadata table contains the general metadata characteristics for each feature class. The NHDSourceCitation table details the source associated with each metadata instance.