

NWCG Geospatial Data Layer Standard

This worksheet is used throughout the process of developing or revising a geospatial data layer standard and when completed represents the NWCG definition of the standard as defined for data exchange. Please populate the information in the template for the proposed data layer standard. There are 9 core geospatial data layer attribute fields that are required for every layer standard. Additional attributes should be added (in addition to the core attributes) to support business and user requirements.

Status (DSTS Use Only)							
Requested	Received	Assigned	Internal Review	Proposed (Ext. Rev)	Final Review	Approved	Archived

Next Anticipated Review

Review Expiration

Approved

Name and Description

Geospatial Data Layer Name
Name of the data layer standard.

Abbreviation
Short form of the data layer name using common acronyms or abbreviations.

Description
Short description of data layer standard that is used in item listing and search results.

Version
Numeric value representing the approved version sequence.

Contact Information

Data Standard Stewardship Group
NWCG group responsible for developing and maintaining the standard for business relevance.

Data Standard Steward (POC)
Person(s) responsible for the data standard development.

General Information

Source Standard

Reference to an existing standard used within the definition of this standard. Include a Source Reference URL, if available.

System of Record

System of record (SOR) or other recommended authoritative data source for the data values. Include a SOR URL, if available.

Additional Text

Additional explanation of the standard, particularly relationships to national or international standards.

Change Management Process

*Change proposals for this standard should be submitted to the NWCG Data Standards and Terminology Subcommittee Chair,
<http://www.nwcg.gov/pms/stds/standards/index.htm#request>*

Discussion Papers Text

Additional information in support of the standard -- published as part of the standard.

Discussion Papers File

Reference supporting discussion papers if applicable.

Geospatial Data

Background

Provide a brief description of the history of the data theme and reason for developing the standard.

Abstract

Concisely describe the standard, its attributes, and any specific requirements or procedures needed to implement.

Purpose

Document the business requirement met by the standard or the resource issue that the standard will help resolve.

Data Model

Explain how the physical geography will be represented in the GIS (e.g. geodatabase feature class or shapefile, as points, lines, polygons) and any related assumptions/constraints that may impact data collection or QA/QC.

Other Notes

Describe anything specific or unique to this data theme or that users should understand about the standard. Document the use of alternate field names for core attributes if different from the standard field names below.

Related Layers

How does this standard relate to other standards or data themes?

Geospatial Data Continued...

Horizontal and/or Vertical Position Accuracy

In addition to default definition (protected text), specify the target accuracy of the data and any quality control measures or standards to be used.

Standards for horizontal and vertical accuracies are detailed in Geospatial Positioning Accuracy Standards; Part 3: National Standard for Spatial Data Accuracy (NSSDA), <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/accuracy/part3/chapter3>. Accuracy is reported by feature in meters at the 95% confidence level listed in the HAccuracy and/or VAccuracy fields. Accuracy reported at the 95% confidence level means that 95% of the positions in the feature will have an error with respect to true ground position that is equal to or smaller than the reported accuracy value.

Horizontal and/or Vertical Spatial Reference Information

Data layer projection parameters should be documented in a .prj file (shapefile format) or in a geodatabase projection definition. Or, specify the projection parameters via an EPSG code (example EPSG code 4326 = WGS84), <http://www.epsg-registry.org>. Projection parameters file should include applicable attributes as specified in the FGDC Standards Reference Model, 4.1.2.1.23.

Attribute Definitions – Core Geospatial Data Layer Attributes (Add additional attributes below core fields)							
Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
NWCGUnitID	UnitID Un_ID	Yes	String	6	Code used in interagency wildland fire to uniquely identify a particular organizational unit (office administratively responsible for either managing incidents/projects, providing resources, or providing logistical services) within the government or a non-government organization recognized by NWCG as a wildland fire cooperator	NWCG (PMS 931: Unit Identifiers)	Unit Identifier
NFIRSUnitID		Yes, if applicable.	Integer	6	National Fire Incident Reporting System (NFIRS) fire department ID. The field is required in the schema, but for federal fires will remain NULL	NFIRS ID	
MapMethod	Map_Method MapMeth	Yes	String	25	Controlled vocabulary to define how the geospatial feature was derived.	GPS-Driven; GPS-Flight; GPS-Walked; GPS-Walked/ Driven; Hand Sketch; Digitized-Image; Digitized-Topo; Digitized-Other; Image Interpretation; Infrared Image; Modeled; Mixed Methods; Remote Sensing Derived; Survey/GCDB/Cadastral; Vector; Other; Unknown	
HAccuracy	H_Accuracy XYError Horz_Err HError	Yes	String	20	Estimated horizontal error. Examples: < .15m (Differentially Corrected Survey Grade GPS, 4" resolution aerial photos) .15 m - .9m (Some Map-grade differentially corrected GPS, 6"-resolution aerial photos) 1m - 1.9m (Some Map-grade differentially corrected GPS, 1m NAIP imagery) 2m - 4.9m (Map-grade GPS, 2m NAIP imagery) 5m - 9.9m (SPOT 5 satellite imagery) 10m - 49.9m (Rec-grade GPS, GPS from helicopter, LANDSAT satellite imagery (includes MTBS imagery)) 50m - 499m (LANDSAT thermal infrared band, MODIS bands 1-2) 500m - 1.5km (hand sketch from airplane, MODIS Bands 3-36)	Unknown; < .15m; .15 m - .9m; 1m - 1.9m; 2m - 4.9m; 5m – 9.9m; 10m - 49.9m; 50m – 499m; 500m - 1.5km; > 1.5km	

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					(including Fire detection and burn scar imagery), VIIRS satellite, AVHRR satellite) > 1.5km (GOES satellite, centroid of county/fire district)		
VAccuracy	V_Accuracy ZError Vert_Err VError	Yes, if applicable (e.g., aviation dataset)	String	20	An estimate of the measurement error in the vertical direction for 3-D geometries. (may be important for Aviation data sets) Only necessary for datasets that have features where vertical accuracy is important.	Unknown; <0.15m; 0.15m - 0.9m; 1m - 1.9m; 2m - 4.9m; 5m - 9.9m; 10m - 49.9m; 50m - 499m; 500m - 1.5km; >1.5km	
DateCurrent	Date_Current EditDate	Yes	Date		The last edit, update, of this GIS record.		Date
Restriction	R_Status Use_Rest Restrict	Yes, if applicable	String	50	Any usage restrictions or restricted status of the feature. Only necessary to add for data sets that have sensitive information like cultural resources.	Unrestricted; No 3rd party release; Agency concurrence; Program concurrence; No release; Unknown	
Comments	Notes GIS_Note	No, but recommended	String	255	Additional information describing the feature.	Free text	
GeometryID	Geometry_ID GIS_ID Spa_ID	Yes	String	50	Primary key for linking geospatial objects with other database systems. Required for every feature. This field may be renamed for each standard to fit the feature.	Globally Unique Identifier (GUID). **	

Attribute Definitions – Additional Geospatial Data Layer Attributes (add below as needed and request DSTS to add attribute rows if necessary)

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
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*Standard field names should be used for the core attributes when possible. Alternate field name suggestions are given to accommodate database conflicts and legacy datasets. Alternate name use should be documented in the Other Notes section above.

** GUIDs are unique specially formatted numeric strings generated by a "GUID generation tool." GUIDs can be generated at <http://www.guidgenerator.com/>

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