



Federal Geographic Data Committee Standards Update March 2011

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Below are updates on standards activities since the February 2011 CG report.

FGDC

Cultural Resources Spatial Data Standard

- The standard will be used to create, maintain, and distribute cultural resource spatial data. It will ensure that geospatial data are linked to attribute databases that describe each cultural resource.
- Information about the standard on the FGDC web site may be found at <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/cultural-resources/cultural-resources-home>.
- Work group telecom is scheduled for April 26.
- Individual task groups will hold their own conference calls as needed between February and 26 April 2011.
 - The first call took place on February 22 to begin organization of the task group working on creating geo-spatial data.
 - Conference calls for the task groups focusing on examining existing standards and creating a more detailed work plan for the work group will follow this month.
- The work group's work plan outlines that there will be a basic framework for the data transfer standard by the end of calendar year 2011.
- The work group plans to have a working draft by April 2012.
- Contact: Deidre McCarthy, Deidre_McCarthy@nps.gov, 202-354-2141

Shoreline Data Content Standard

- This standard is intended to enhance the shoreline framework by providing technical guidance on shoreline semantics, data structures, and their relationships to builders and users of shoreline data.
- Information about the standard on the FGDC web site may be found at <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/shoreline-data-content/index.html>.
- A final draft *might* be resubmitted to the FGDC in summer 2010.
- No other updates to report for March CG meeting.
- Contact: Doug Graham, Doug.Graham@noaa.gov, 301-713-2675 x170

United States Thoroughfare, Landmark, and Postal Address Data Standard

- This standard specifies data content, data classification, data quality, and data exchange in XML for street addresses and landmark addresses and points of postal delivery.

- Information about the standard on the FGDC web site may be found at <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/street-address/index.html>.
- The Steering Committee endorsed the Address Data Standard in February 2011
- A number of states (Massachusetts, Minnesota, North Carolina, Oregon, Arkansas, and others) as well as many local jurisdictions are currently working to adopt the standard, and are also working on projects, including Broadband Access mapping, legislative redistricting, etc., which are creating address databases that are standard-compliant, even if the standard has not yet been adopted by the State.
- Christian Jacqz at MassGIS (Massachusetts) has produced a tool for parsing and standardization of some street name components using the standard-defined elements.
- New York state has been working with ESRI geocoding developers to make sure that the individual address components can be used in their geocoding locator
- Spatial Focus, Inc. was awarded a CAP grant to develop, manage and maintain address information in a standard-compliant manner.
- Address Standard Working Group contact: Martha Wells, mwells@spatialfocus.com, 205-616-0205

Coastal and Marine Ecological Classification Standard (CMECS)

- NatureServe was awarded a CAP grant to address public and peer review comments, solve technical issues that arise from the comments, and revise the CMECS standard to reflect the suggestions made during the public review process. A final draft is planned for December 2011.
- No other updates were reported for March 8 CG meeting.
- Contact: Mark Finkbeiner, mark.finkbeiner@noaa.gov, 843-740-1264

Federal Buildings and Facilities Geospatial Data Content Standard

- There are no updates since February 2011 standards update to report.
- Contact Sandra Downie, sandra.downie@gsa.gov

Federal Trails Data Standard (FTDS)

- The functional scope of the standard includes the definition of a core set of trail data attributes, corresponding values, and definitions.
- Information about this standard on the FGDC web site may be found at <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/trail-data-standard/trail-data-standards>.
- The FTDS team completed final review and adjudication of public and FGDC comments.
- A final draft was released for SWG review.
- A FGDC/SWG meeting is scheduled for March 2011. The FTDS team is prepared to discuss public review comments, comment adjudication, and the final draft for recommendation for FGDC endorsement.
- Contact: David Duran, David_Duran@nps.gov, (303) 969-2176.

National Wetland Classification Standard maintenance and revision

- No updates were reported for March 8 FGDC Coordination Group meeting.

- Contact Bill Wilen, Bill.Wilen@fws.gov 703 358-2278

INCITS Technical Committee L1, Geographic information systems

Information from the standards update for the 2010-02-08 FGDC Coordination Group meeting has been carried over where there are votes or calls for comments due after February 2011. CG is informed in case members would like to review documents and provide input.

ISO/IEC 13249-3 SQL/MM Part 3: Spatial SQL/MM

- L1 voted on a change proposal to add support for curve types in harmony with GML and proposed revisions to OGC Simple Features and ISO 19107:2003, Geographic information – Spatial schema.
 - Voted closed Monday, February 28.
- L1 voted to approve a change proposal to add support for linear referencing to ISO/IEC 13249-3, consistent with ISO FDIS 19148:2010, *Geographic information — Linear referencing* (Also available as *OpenGIS® Abstract Specification Topic 19 – Linear referencing*, 2010).
 - Vote closed Tuesday, February 15.

ISO/CD 19101-1 Geographic information – Reference model — Part 1: Fundamentals

- Vote on approval as a DIS is due to INCITS 2011-04-04. A call for comments/L1 position closed March 2.
- “This standard defines the reference model for standardization in the field of geographic information.”
- ISO/CD 19101-1 updates ISO 19101:2002 for “the role of semantics and how the new technologies such as the Web and many emerging ways of accessing it and the Semantic Web can support interoperability in the field of geographic information.”
- While ISO 19101:2002 is **not** among the 64 external standards endorsed by the FGDC, ISO 19109:2005, which is among the 64 external standards endorsed by the FGDC, builds on the domain reference model of ISO 19101. ISO 19109:2005 is also mandated in the DISR.

ISO 19109 Geographic information - Rules for application schema (Revision of ISO 19109:2005)

- Vote on New Work Item Proposal (NWIP) to revise ISO 19109:2005 is due to INCITS 2011-04-06
- This standard defines “rules for creating and documenting application schemas, including principles for the definition of features.”
- ISO 19109:2005 is among the 64 external standards endorsed by the FGDC. It is also mandated in the DISR.

ISO/CD 19115-1 Geographic information – Metadata – Part 1: Fundamentals

- Vote on approval as a DIS is due to INCITS 2011-04-04. A call for comments/L1 position closed March 2.

- This standard defines “the schema required for describing information and services. It provides information about the identification, the extent, the quality, the spatial and temporal schema, spatial reference, and distribution of digital data.”
- This edition will cancel and replace ISO 19115:2003, Geographic information – Metadata.
- ISO 19115:2003 is among the 64 external standards endorsed by the FGDC. It is also mandated in the DISR.

ISO DIS 19117 Geographic information — Portrayal (revision of ISO 19117:2005)

- A vote to recommend ISO DIS 19117 for publication as an International Standard closed 2010-03-07.
- Proposed L1 position is to Vote **not** to adopt ISO 19117 as an American Nation Standard, until the harmonization with OpenGIS® Symbology Encoding Implementation (SE) Standard and Styled Layer Descriptor (SLD) profile of the Web Map Service Implementation Standard has been completed and the US can better judge and evaluate the implementability of 19117rev.
 - OpenGIS® Symbology Encoding Implementation Standard, version 1.1.0 is among 64 external standards endorsed by the FGDC. It is also mandated in the DISR.
 - Styled Layer Descriptor profile of the Web Map Service Implementation Specification, version 1.1.0 is among 64 external standards endorsed by the FGDC. It is also mandated in the DISR.
- Refer to January 2011 FGDC Business Report for information on DIS 19117.

ISO 19119 Geographic information - Services (Revision of ISO 19119:2005)

- Vote on NWIP to revise ISO 19119:2005 is due to INCITS 2011-04-07.
- This standard will cancel and replace ISO 19119:2005.
- This standard provides a “framework for developers to create software that enables users to access and process geographic data from a variety of sources across a generic computing interface within an open information technology environment.”
- ISO 19119:2005 is among the 64 external standards endorsed by the FGDC. It is also mandated in the DISR.

ISO/Draft Technical Specification (DTS) 19135-2 Geographic information – Procedures for item registration — Part 2: XML Schema Implementation

- Vote on publication as Technical Specification is due to INCITS 2011-03-31. A call for comments/L1 position closed February 27.
- “This document defines an XML encoding for the storage and exchange of registers and register items compliant with ISO 19135:2005, Geographic information – Procedures for item registration. This encoding conforms to the rules described in ISO 19139:2007, Geographic Information – Metadata – XML Schema Implementation.”
- Both ISO 19135:2005 and ISO 19139:2007 are among the 64 external standards endorsed by the FGDC. They are both mandated in the DISR.

ISO Draft International Standard (DIS) 19144-2 Geographic information — Classification systems — Part 2: Land Cover Meta Language (LCML)

- INCITS L1/U.S. TAG ballot closed 2010-03-01. The U.S. position was to recommend ISO/DIS 19144-2 for publication as an International Standard
- Refer to January 2011 FGDC Business Report for information about ISO 19144-2.

ISO DIS 19152, Geographic information — Land Administration Domain Model (LADM)

- Vote on publication as an International Standard is due to INCITS 2011-05-04.
- The focus of this standard is on “that part of land administration that is interested in rights, responsibilities and restrictions affecting land (or water), and the geometrical (geospatial) components thereof.”
- This standard might have a relationship to the FGDC Cadastral Data Content Standard.

ISO 19160, Geographic information – Addressing

- A vote on comments on ISO 19160 is due to INCITS on 2011-04-12.
- The objective of this study project is to “review existing address standards in order to identify international addressing standardization requirements and to make recommendations on how these should be developed.”
- U.S. Thoroughfare, Landmark, and Postal Address Data Standard was one of the standards that was reviewed.
- At the 2011-02-08 FGDC Coordination Group meeting. Randy Fusaro announced the request for comments on ISO 19160.

Next L1/U.S. TAG meeting is scheduled for May 6.

Next ISO TC 211 plenary and associated meetings is scheduled for May 23-27, Delft, The Netherlands.

Contact Julie Maitra, FGDC representative to INCITS L1, jmaitra@fgdc.gov, (703) 648-4627 or your agency representative to INCITS L1. INCITS L1 Chair: Liping Di, Ph.D, ldi@gmu.edu

Geospatial-Intelligence Standards Working Group (GWG)

- GWG polling session was held Thursday, February 10.
 - The FGDC voted to abstain on most standards, with comment:
 - “The FGDC abstains from the vote of this standard for use by the Department of Defense (DoD) and Intelligence Community (IC) at the February 10 polling session of the Geospatial Intelligence Standards Working Group (GWG). The FGDC is working with the GWG to harmonize its standards process with the GWG's process. Despite FGDC abstentions at recent GWG polling sessions, the FGDC will review standards from previous DISR cycles for consideration for FGDC endorsement.”
 - The FGDC voted yes to recommend several OGC documents related to Web Coverage Services (WCS) 2.0 as *emerging* standards.
 - WCS 1.1.2 is among the 64 external standards endorsed by the FGDC. It is also mandated in the DISR.
- Spatial Data Standards for Facilities, Infrastructure, and Environment (SDSFIE) version 3.0

- Comments on SDSFIE version 3.0 are due to DISDI and GWG by 2011-03-11.
- Goal is to have this document added to the DISR 11-2.0 baseline update as a mandated standard.
- On-deck standards:
 - The following standards were identified for consideration for future DISR cycles:

Standard	Information
ISO 19142:2010 Geographic Information - Web Feature Service	Planned for Mandate Status in 11-2.0
ISO 19143:2010 Geographic Information – Filter Encoding	Planned for Mandate Status in 11-2.0
ISO 19146:2010 – Geographic Information - Cross Domain Vocabularies	Planned for Emerging Status – 11-2.0
OGC® The Specification Model — A Standard for Modular specifications (#08-131r3)	Planned as an Information Guidance Document – 11-2.0
OGC® GeoSynchronization Service	Planned Mandate – 11-3.0/12-1.0
OGC® GeoSimple Message Service (GeoSMS)	GeoSMS is a encoding standard for geotagging SMS messages
STDI-0002 v3, The Compendium of Controlled Extensions (CE) for the National Imagery Transmission Format (NITF), v3, 1 August 2007	Automatic 3-year review Recommended Action: Retire and Replace Mandated Standard
STDI-0005 Version 1.0, Implementation Practices of the National Imagery Transmission Format Standard (IPON), 2 August 2007	Automatic 3-year review Recommended Action: Retain as Active Information/Guidance
STANAG 7194, NIIRS Edition 2	Recommended Action: Retire and Replace Mandated Standard
TSPI version 2.0	Targeting Baseline 11-2 for publication Will replace emerging Time-Space-Position Information (TSPI), Version 1.0.1

- ISO 19142:2010
 - ISO 19142:2010 is equivalent to OGC® Web Feature Service 2.0.
 - OpenGIS® Web Feature Service Implementation Specification, version 1.1.0 is among 64 external standards endorsed by the FGDC. It is also mandated in the DISR.
- ISO 19143:2010
 - Equivalent to OGC® Filter Encoding 2.0 (09-026r1)
 - OpenGIS® Filter Encoding Implementation Specification, version 1.1 is among 64 external standards endorsed by the FGDC. It is also mandated in the DISR.

Contact Julie Maitra, FGDC representative to GWG, jmaitra@fgdc.gov, (703) 648-4627.

FGDC GWG Alignment

- Calls for participation on the Task Team on FGDC GWG alignment were issued to the SWG, CG, and ExCom. Only three people came forward.
- The first meeting of the Task Team on FGDC GWG alignment was held February 22. Attendees were:
 - Rick Pearsall, NGA
 - Lisa Delmonico, U.S. Army Corps of Engineers
 - Ken Shaffer, FGDC
 - Julie Maitra, FGDC
- Success of FGDC GWG process alignment depends on FGDC participation in the GWG Focus Groups.
 - Rick Pearsall made a first attempt at identifying which FGDC member agencies should participate in particular GWG Focus Groups.
 - The FGDC will outline the roles and responsibilities of FGDC members on GWG Focus Groups.
- The FGDC will identify additional standards in the DISR for consideration for FGDC endorsement: this is intended as a process of "catch-up" until the FGDC can align its process with the GWG/DISR standards process.
- The next meeting of the Task Team is scheduled for Thursday, March 10.