



Federal Geographic Data Committee Standards Update February 2011

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Below are updates on standards activities since the January 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>.
- A telecon of the work group was held January 25.
 - 2011 Work Plan was discussed.
 - Goals of six task groups were discussed.
 - Membership on task groups will be finalized.
 - A list of task group participants was released to work group members.
 - Individual task group participants will communicate amongst themselves to find a leader of each task group.
- Next 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.
- 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>.
- Report for January 2011:
 - Some basic components are still under discussion.
 - A final draft *might* be resubmitted to the FGDC in summer 2010.
- 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>.
- Steering Committee vote on FGDC endorsement closes Wednesday, February 9.
- Some content in the Transportation parts of the Geographic Information Framework Data Content Standard needs to be reconciled with the Address Data Standard. Reconciliation began during the TRB meetings, on January 25. A joint committee comprising Address Standard WG members and Transportation Standard team members was organized to discuss this reconciliation. A wiki site has been set up, and this work will be completed in fall 2011.
- Address Standard Working Group contact: Martha Wells, mwells@spatialfocus.com, 205-616-0205

Coastal and Marine Ecological Classification Standard (CMECS)

- CMECS provides a means of classifying ecological and habitat units using a common terminology.
- Information about CMECS on the FGDC web site may be found at <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/cmecs-folder/cmecs-index-page>.
- The public comment period for CMECS closed on December 13, 2010.
- The CMECS Implementation Group (IG) met January 10-11, 2011 to review all of the responses and develop approaches for generating revisions to the CMECS text and replies to individual comments.
- The CMECS IG hosted an invited workshop on the CMECS Water Column Component (WCC) January 12-14, 2011.
- Four pilot projects are in early planning stages.
- Abstracts for CMECS presentations and sessions have been submitted for several national conferences in 2011.
- The schedule currently calls for the CMECS team to have developed responses to all comments by June 2011 (FGDC Step 9).
- Contact: Mark Finkbeiner, mark.finkbeiner@noaa.gov, 843-740-1264

Federal Buildings and Facilities Geospatial Data Content Standard

- Current status: comparing data content models.
- Goals:
 - Facilitate Collaborative Spatial Data Standards
 - Provide Guidance for Acquisition and Production
 - Develop a Uniform Framework for data content
 - Data Collection requirements & Data descriptive data elements
 - Develop Production standards for Life cycle data theme management
- Community Workspace <https://my.usgs.gov/alfresco/faces/jsp/.....> BandFDTL
- Meetings: Wednesday 1-3 Invitations and Agenda sent to Participants via e-mail
- All agencies are encouraged to participate.
- 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 will be scheduled for first quarter 2011. The FTDS team is prepared to discuss public review comments, comment adjudication, and the final draft.
- Contact: David Duran, David_Duran@nps.gov, (303) 969-2176.

National Wetland Classification Standard maintenance and revision

- The objective is to produce a newly edited and updated version of the wetlands classification standard, *Classification of Wetlands and Deepwater Habitats of the United States*.
- Information about this standard on the FGDC web site may be found at <http://www.fgdc.gov/standards/projects/FGDC-standards-projects/maintenance-review-wetlands-classification-std/index>.
- No updates were reported for January 2011.
- Contact Bill Wilen, Bill_Wilen@fws.gov 703 358-2278

INCITS Technical Committee L1, Geographic information systems

INCITS L1/U.S. TAG met Wednesday, January 12, 2011.

The following information alludes to potential impacts on FGDC and GWG standards activities.

Domestic standards projects

INCITS Project 2218-D Information Technology - NAP Feature Catalog North American Profile
ISO 19110 Feature Catalog Project

- No updates since December 2010 report to CG
 - The project is still waiting for further progress on the 19115 revision
 - Canada has no money to advance this project.

INCITS Project 1574-D, Information Technology - Geographic Information Framework Data
Content Standard

- At its January 12 meeting, INCITS L1 voted on the reason to cancel this project: "Project overcome by events in that it was subsequently endorsed as FGDC standard."
- The reason has to be reported to the INCITS Executive Board (EB), as the EB votes to approve projects and then to cancel projects.

International standards

Report lists upcoming votes. CG is informed in case members would like to review documents and provide input.

ISO 19105:2000 Geographic information -- Conformance and testing

- At its January 12 meeting, INCITS L1/U.S. TAG voted on systematic review of ISO 19105:2000. INCITS L1/U.S. TAG voted to *confirm* ISO 19105:2000.
- Refer to January 2011 FGDC Business Report for other information about ISO 19105:2000.

ISO 19132:2007 Geographic information -- Location-based services – Reference model

- At its January 12 meeting, INCITS L1/U.S. TAG voted on systematic review of ISO 19132:2007. INCITS L1/U.S. TAG voted to *confirm* ISO 19132:2007.
- Refer to January 2011 FGDC Business Report for information about ISO 19132:2007.

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

- A vote on ISO DIS 19144-2 is due to INCITS on 2011-03-03. INCITS L1/U.S. TAG will vote by letter ballot.
- Refer to January 2011 FGDC Business Report for information about ISO 19144-2.

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

- A vote on DIS 19117 is due to INCITS 2011-03-08. INCITS L1/U.S. TAG will vote by letter ballot.
- Refer to January 2011 FGDC Business Report for information on DIS 19117.

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.
- “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.

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

- Vote on approval as a DIS is due to INCITS 2011-04-04.
- “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/CD 19115-1 Geographic information – Metadata – Part 1: Fundamentals

- Vote on approval as a DIS is due to INCITS 2011-04-04.
- 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 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 19109 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.
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ISO DIS 19152, Geographic information — Land Administration Domain Model (LADM)

- Votes on submission to ISO and adoption as an American National Standard are 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 is relevant to cadastral data activities.

ISO 19160, Geographic information – Addressing

- Comments are due to ISO Technical Committee 211, Geographic information/Geomatics, by 2011-04-30.
- 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.
- Randy Fusaro has participated in the project team.

Contact Julie Maitra, FGDC representative to INCITS L1, jmaitra@fgdc.gov, (703) 648-4627 or your agency representative to INCITS L1.

Geospatial-Intelligence Standards Working Group (GWG)

- Next GWG polling session is scheduled for Thursday, February 10.
- Change requests under consideration at the GWG polling session were released to the SWG and CG for review on January 10.
- A teleconference to discuss change requests was held Thursday, February 3.

- As reported at the 2011-01-11 CG meeting, the FGDC's best option is to abstain on most standards, with comment: "FGDC and GWG are still working to align their standards processes; consequently, FGDC does not have means for a *priori* endorsement, which would give the FGDC a mandate for vote at the GWG polling session."

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

Open Geospatial Consortium (OGC)

As reported in the notes of the 2011-01-12 INCITS L1 meeting, OGC voted to approve Web Coverage Services (WCS) 2.0 and net Common Data Form (netCDF).

WCS 2.0

- "The OGC WCS 2.0 standard defines a standard interface and operations that enable interoperable access to geospatial coverages" – see <http://www.opengeospatial.org/pressroom/pressreleases/1317>
- WCS 2.0 is up for vote as an *emerging* standard at the 2011-02-10 GWG Polling Session: "it is anticipated that this standard will be widely implemented in the future."
- WCS 1.1.2 is among the 64 external standards endorsed by the FGDC. It is also mandated in the DISR.

Network Common Data Form (NetCDF)

- NetCDF is among the 64 external standards endorsed by the FGDC. For more information about NetCDF, visit <http://www.fgdc.gov/standards/fgdc-endorsed-external-standards/index.html>.
- NetCDF is not listed in the DISR.

Consult <http://www.opengeospatial.org/> for more information about OGC activities.