

Coordination Group Meeting FGDC Business Report Update

Ken Shaffer

Deputy Executive Director

*Federal Geographic Data
Committee*

June 7, 2016



Background

This presentation contains general update information on FGDC business activities. A list of the other agenda topics with references to their associated materials is also included. This presentation is intended as a read-ahead with only highlights of some of these activities being presented during the meeting. Questions on the included topics or content can be posed during the FGDC Business Update during the meetings.

It is the responsibility of the attendees to review the material prior to the meeting, as per CG standard operating procedures.

The general organization of the information is:

CG Agenda Items - Items on the Coordination Group (CG) agenda with references to any read-ahead materials

FGDC Committee Meeting Summaries

FGDC Business Update - Current FGDC initiatives/activities

CG Agenda Items

❖ FGDC Business Highlights

Contact: Ken Shaffer

Read ahead: FGDC Business Highlights

❖ Vegetation Subcommittee Report

Contact: Marianne Burke

Read ahead: Vegetation Subcommittee Report

❖ Geospatial Platform PMO Activities Update

Contact: Jim Irvine, Program Manager, ArdentMC Inc.

Read ahead: Geospatial Platform Report

❖ Evaluation of the NSDI Strategic Plan and the NGDA Management Plan

Contact: John Mahoney, FGDC OS; Jennifer Carlino, FGDC OS

Read ahead: Evaluation of the NSDI Strategic Plan, and the NGDA Management Plan

❖ Other Agency Announcements

Committee's Decisions Summary

- ❖ On May 31st, the Executive Committee met and discussed the National Address Database. Key outcomes
 - ❖ Creation of a National Address Data Theme
 - ❖ The Department of Transportation and the U.S. Census Bureau will be Co Leads of the Address Data Theme
 - ❖ DOT and Census will continue with pilot efforts
- ❖ Public release of the Performance Dashboard, and the NGDA Lifecycle Maturity Assessment (LMA) Reports
 - ❖ On May 19, FGDC announced the public release of the Geospatial Platform Performance Dashboard for the National Geospatial Data Asset (NGDA) Lifecycle Maturity Assessments (LMA) (does require a GeoPlatform account)
<https://dashboard.geoplatform.gov/>

Committee's Decisions Summary

- ❖ A vote to approve the change of the name of the Biota Theme to Biodiversity and Ecosystems Theme was sent to the Steering Committee on May 24th. Votes are due back on June 10th.
- ❖ Upon endorsement by the Steering Committee, the official list of National Geospatial Asset (NGDA) Themes, a revision to OMB Circular A-16 Appendix E, will be updated to reflect this change.

Steering Committee

- ❖ The next Steering Committee Meeting will be on June 16th at the Department of Transportation. Agenda Topics include:
 - ❖ FGDC Current Activities
 - ❖ National Address Database
 - ❖ NGAC Meeting Summary
 - ❖ Geodetic Control Theme Report
 - ❖ Geospatial Platform
 - ❖ Open Water Data Initiative
 - ❖ 3D Elevation Program
- ❖ Registration is required. Email Lucia Foulkes at lfoulkes@usgs.gov) to register.
- ❖ NOTE: Per DOT security, attendees should plan to arrive 30-45 minutes prior the meeting starting time.

NGAC Update

2016 Guidance issued to NGAC in April 2016

❖ Priority Study Topics:

- NGDA Evaluation
- NSDI Strategic Plan Evaluation
- Emerging Technologies
- Policy Framework
- Standards Coordination
- Landsat Advisory Group
- Transition Planning

NGAC 2016 Subcommittees

NGDA Evaluation Work Group

- ❖ Membership: Bert Granberg (lead), Amber Reynolds, Tony Spicci, Harvey Thorleifson, Jason Warzinik
- ❖ Task: Provide high-level feedback on the FGDC's National Geospatial Data Asset/portfolio management process. Provide input on potential strategic actions based on the results of the NGDA Management Plan evaluation.

NSDI Strategic Plan Work Group

- ❖ Membership: : Matt Gentile (lead), Jack Hild, Xavier Irias, Laxmi Ramasubramanian, Molly Vogt
- ❖ Task: Assess the effectiveness and impact of the current NSDI strategic plan. Review and provide feedback on the Vision and Desired Future State described in the strategic plan

NGAC 2016 Subcommittees

Emerging Technologies Subcommittee

- ❖ Membership: Doug Richardson (chair), Sarah Battersby (vice-chair), Pat Cummins, Matt Gentile, Jack Hild, Jeff Lovin, Rebecca Moore, Carl Reed, Gary Thompson, Jason Warzinik, May Yuan
- ❖ Task: Provide perspectives and advice on how new technologies will impact the geospatial community or change the way we do business. Describe how these new technologies and changes might be reflected in the NSDI strategic plan framework.

Policy Framework Subcommittee

- ❖ Membership: Tony Spicci (chair), Molly Vogt (vice-chair), David Alexander, Bert Granberg, Kevin Pomfret, Laxmi Ramasubramanian, Amber Reynolds, David Wyatt
- ❖ Task: Provide perspectives and advice on how OMB Circular A-16 and the FGDC policy framework might be updated to reflect changes in technology, organizational capabilities, partnerships, and the evolution of the geospatial community.

NGAC 2016 Subcommittees

Standards Coordination Subcommittee

- ❖ Membership: Carl Reed (chair), Gen. William Reddel (vice-chair), Talbot Brooks, Xavier Irias, Harvey Thorleifson, Frank Harjo
- ❖ Task: Provide advice on greater adoption and utilization of standards resulting in enhanced interoperability of geospatial data, services, and systems. Provide recommendations on collaboration with voluntary standards organizations to enhance the implementation and uptake of endorsed standards.

Landsat Advisory Group

- ❖ Membership: Joanne Gabrynowicz (chair), Frank Avila (vice-chair), Roger Mitchell, Rebecca Moore, (additional non-NGAC members)
- ❖ Task: The specific 2016 Landsat-related issues for consideration by the NGAC will be jointly discussed and refined by the USGS program office and the LAG.

NGAC Points of Contact

- ❖ NGAC has designated POCs for several key ongoing geospatial. POCs will coordinate with FGDC and program leads to keep NGAC members updated on key program activities, as needed. POCs are as follows:
 - Geospatial Platform – May Yuan
 - Crowdsourced Data – Molly Vogt
 - 3D Elevation Program – Gary Thompson
 - Geospatial Privacy – Kevin Pomfret
 - National Address Data – Jason Warzinik
 - NSDI Outreach and Communication – Julie Sweetkind-Singer/Keith Masback
 - Tribal Geospatial Activities – Frank Harjo
 - Open Water Data Initiative – Harvey Thorleifson
 - Geospatial Workforce – Talbot Brooks

June 14-15 NGAC Meeting

- ❖ U.S. Department of Transportation Building
- ❖ Registration required – contact Lucia Foulkes (lfoulkes@usgs.gov) by **June 10** to register
- ❖ Agenda Topics:
 - Leadership Dialogue
 - FGDC Report
 - National Parcel Data – NGAC Discussion
 - Emerging Technologies Spotlight Session
 - Review of NGDA Work Group paper
 - Review of NSDI Work Group paper
 - 3DEP/Open Water Data Initiative Update
 - NGAC Subcommittee Break-out Sessions
 - NSDI Framework/Transition Plan Dialogue
 - Member Updates
 - Public Comment Period

CG and SC Monthly Membership

❖ No changes this month.



Contact: Lucia Foulkes, FGDC OS, lfoulkes@usgs.gov

Coordination Group Meeting Dates

❖ 2016 CG Meeting Calendar available on FGDC website

- *July 12, 2016 – Rachel Carson Room*
- August 9, 2016
- September 13, 2016
- October 11, 2016
- November 8, 2016
- December 13, 2016



Contact: Lucia Foulkes, FGDC OS, lfoulkes@usgs.gov

FGDC Business Update

2014 GAO Engagement

USGS Leadership Change for NGDA Imagery Theme

NGDA Management Plan Activities

FGDC Standards Update

FGDC Website

2014 GAO Engagement – Actions Status

❖ 2015 GAO report FGDC actions (3 remaining)

- ❖ Correct search function on Geospatial Platform and monitor regularly
 - Status: Technical, and catalog record content improvements: on-going
- ❖ Regular collection of Geospatial Platform performance measures with reports to Steering Committee
 - Status: Metrics and dashboards being designed and developed
 - Includes service performance, NDGA Lifecycle assessments, portfolio
- ❖ Create address data theme and associated subcommittees and working groups to further a national address database
 - Status: ExCom agree on:
 - Creation of Address Data Theme
 - Co- Leadership role of Address Data Theme by DOT and Census Bureau
 - DOT and Census will continue with pilot efforts
 - Subcommittee/Work Group will be created to support the efforts
 - Federal government has a leadership role in a NAD
 - Further ExCom Discussion on:
 - NAD governance model

USGS Leadership Change for NGDA Imagery Theme

- ❖ USGS has shifted the leadership responsibilities to the Land Remote Sensing (LRS) Program
 - ❖ From: National Geospatial Program
- ❖ LRS discharges authorities assigned to the DOI for leadership in land remote sensing
- ❖ Manages functions to enable US access to imagery-base information, including:
 - ❖ Operation of the Landsat satellite system
 - ❖ Management of National Satellite Land Remote Sensing Data Archive
- ❖ Will coordinate its imagery acquisition collection and management activities with the USDA NAIP
- ❖ Has already been working with the NDOP
- ❖ The Theme Lead POC is being identified

National Geospatial Data Asset (NGDA) Management Plan

Gita Urban-Mathieux

Jen Carlino

FGDC-OS

June 7, 2016



Performance Dashboard and Reports

❖ Posted on GeoPlatform.gov in May

Performance Dashboard

NGDA Dataset Report

Official NGDA Title: U.S. Marine Protected Areas Boundaries: MPA Inventory

Metadata Record Title: U.S. Marine Protected Areas Boundaries: MPA Inventory

A-16 NGDA Theme: Water

Executive NGDA Theme Chair: Margaret Davidson
Name: Margaret Davidson
Agency: DOC-NOAA
Email: margaret.davidson@noaa.gov

Theme Lead(s): Tony LaVoi
Name: Tony LaVoi
Agency: NOAA
Email: tony.lavoi@noaa.gov

Dataset Manager(s): Mimi D'lorio
Name: Mimi D'lorio
Agency: NOAA
Email: mimi.dlorio@noaa.gov

Metadata: Registered on 12/11/2014
Registration Status: Complete
GeoPlatform Link: <http://www.geoplatform.gov/2784>
Data.gov Metadata Link: <https://www.data.gov/dataset/2784>

*If the metadata has been updated, it will be searched for the latest version. If the metadata has not been updated, the dataset may not be searched for.

Created: 2015/12/31

Theme Summary Report Water - Oceans and Coasts

Overview:
The Theme Summary characteristics have been completed in the geospatial progress and as part of the NGDA portfolio.

Theme Lead(s): Tony LaVoi
Name: Tony LaVoi
Agency: NOAA
Email: tony.lavoi@noaa.gov

Total NGDA Datasets: 16
NGDA LMA Submitted: 0
Not Started: 0
In Progress: 0
Complete: 16

Created: 2015/12/31

Water - Oceans and Coasts Theme NGDA LMA Overall Maturity Status Overview

LMA Questions: 19 | NGDA Dataset Total: 16 | NGDA Datasets with LMA Complete: 16

NGDA Dataset Maturity Definitions
Detailed LMA Questions: https://www.geoplatform.gov/sites/default/files/NGDA_MP_LMA_Tool.pdf
How To Calculate Maturity: https://www.geoplatform.gov/sites/default/files/how_to_calculate_maturity.pdf

Maturity	Definition
Optimized, Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature, Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used relied by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a regular basis. The dataset is well managed in relation to the approved lifecycle.
Managed, Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition, Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned, Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to involve secondary users, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional users or users were not considered not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

Created: 2015/12/31

GeoPlatform Performance Dashboard Dashboard Help Gita Urban-Mathieux

NGDA Lifecycle Maturity Assessment Dashboard

Select a NGDA Dataset Lifecycle Maturity Assessment Survey from the Drop-down below. This assessment is completed by dataset managers on an annual basis. The most recent results are displayed by default. You may choose to filter by Theme or Agency using the Selection Type and Selection drop-downs. For more details, click on a rating box (cell) or hover over column headings.

Survey: Submissions as of 12/31/2015 Selection Type: By Theme Selection: 1 selected Export as: PDF

Dataset	General	Define	Inventory Evaluation	Obtain	Access	Maintain	Use Evaluation	Archive	Overall	Theme	Agency
Theme Rollup	46	46	46	46	35	35	35	35	35		
Baker's Ecoregions And Subregions Of The United States, Puerto Rico, And The U.S. Virgin Islands - Direct Download	56	25	55	55	45	55	25	55	45	Biota	USDA-USFS
Environmental Sensibility Index (ESI) Data Viewer and REST Services for Alabes	35	55	35	35	15	25	25	25	35	Biota	DOC-NOAA
FWS Critical Habitat for Threatened and Endangered Species Dataset	35	45	55	55	55	45	45	55	45	Biota	DOI-FWS
Omnark's Level III Ecoregions Of The Conterminous United States	45	45	25	35	15	25	35	25	35	Biota	USEPA
Terrestrial Ecosystems of the Conterminous United States	45	45	55	45	55	25	35	55	45	Biota	DOI-USGS
U.S. Geological Survey Gap Analysis Program Species Distribution Models	45	45	55	35	45	15	45	25	35	Biota	DOI-USGS
U.S. Geological Survey Gap Analysis Program Species Ranges	45	45	55	35	45	15	45	25	35	Biota	DOI-USGS

NGDA Reports:
Dataset and Theme Summary

NGDA Lifecycle Maturity Assessment 2015 Report

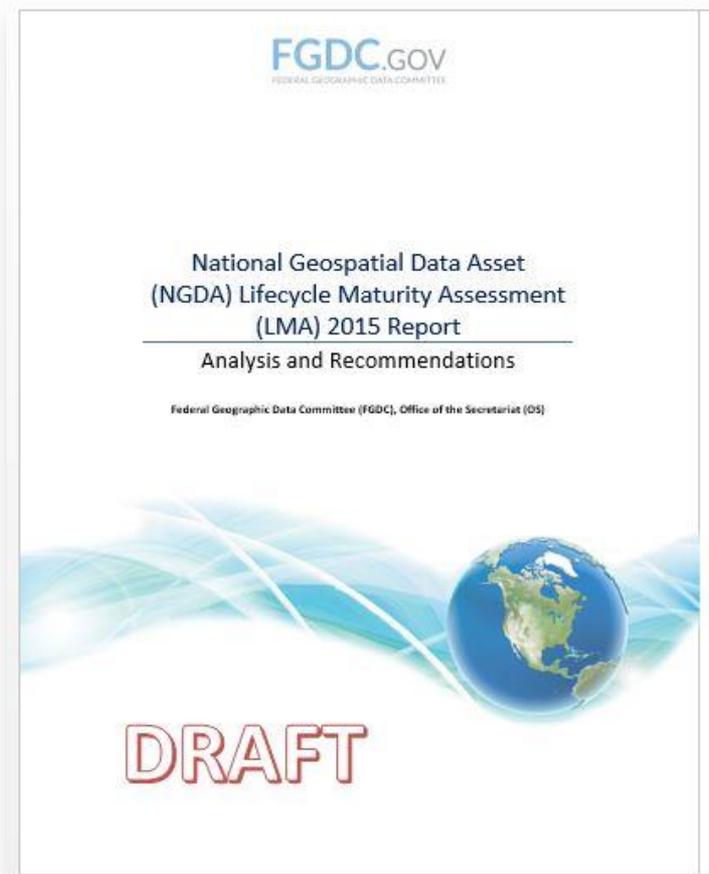
❖ Analysis and Recommendations

1. An overview of the LMA Survey and its components
2. A review and summary of all 2015 LMA responses
3. A baseline analysis that can be compared to future LMA results
4. Supplemental in-depth analyses of select questions
5. Recommendations for future LMA improvements

❖ Share with CG in July/August

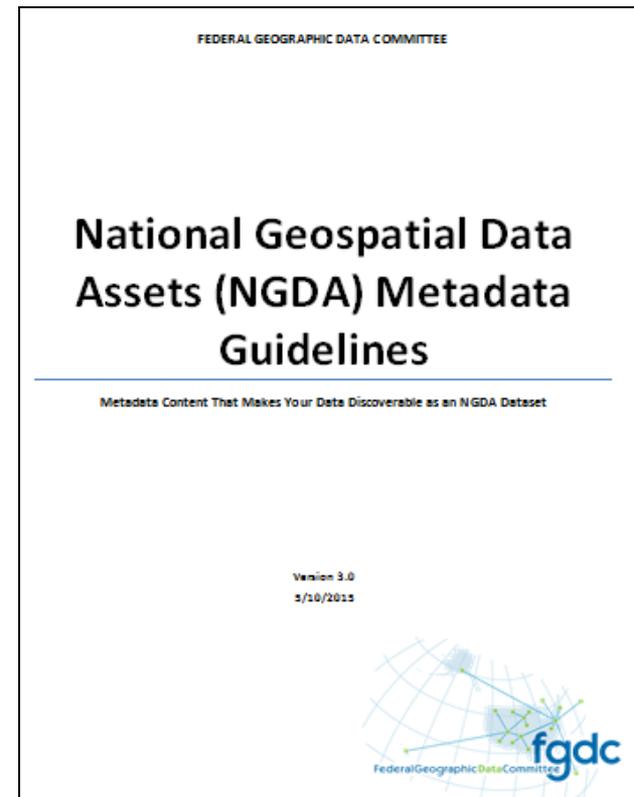
❖ Present to Steering Committee in Fall 2016

NGDA Community
comments due June 10



NGDA Web Services and Metadata Project

- ❖ Providing reliable web services with quality metadata for all NGDA Datasets to improve the GeoPlatform.gov experience by end of 2016
- ❖ Updated NGDA Metadata Guidelines
 - CSDGM and ISO
 - Content tags for web services
 - Content tags for geospatial data download
 - Project Open Data JSON in progress
- ❖ Instructions to be sent to NGDA Dataset Managers in June



NGDA Management Plan - Current Activities

- ❖ Rename Biota Theme to Biodiversity and Ecosystems Theme
 - FGDC Coordination Group endorsed May 20
 - Steering Committee endorsement vote due June 10
- ❖ NGDA MP Evaluation Project
 - NGDA Community Evaluation Survey
 - NGAC Work Group developing white paper
 - Version 1 of Evaluation Report in work
- ❖ Theme Strategic Plans
 - Theme Leads coordinating
 - **CG members are encouraged to support development**
 - Due June 30, 2016

NGDA Management Plan - Current Activities

- ❖ Redesign of Theme Lead Collaboration Community (TLCC)
 - Will be re-titled the NGDA Collaboration Community (NCC)
- ❖ Theme Administrative Assessment
 - Revise earlier version and will discuss with Theme Leads and Coordination Group
- ❖ Theme Lead meeting week of June 20th

NGDA Inventory Updates

❖ Theme Lead Changes

- USGS will be designating a Imagery Theme Co-lead soon
- Geodetic Control Theme Lead
 - Yan Wang (yan.wang@noaa.gov) ended assignment; Daniel Roman (dan.roman@noaa.gov) acting Theme Lead

❖ Dataset Manager Changes

NGDA Dataset	New Dataset Manager	Previous Dataset Manager
International Boundary United States Mexico Minute 315 (Governmental Units Theme)	Gilbert Anaya International Boundary and Water Commission Gilbert.Anaya@ibwc.gov	Delbert Humberson IBWC
FS National Forest Dataset (US Forest Service Proclaimed Forests)	Troy Warburton Forest Service (acting) trwarburton@fs.fed.us	Steve Dodds Forest Service (retired)

NGDA Management Plan

Additional Slides

Points of Contact and Links

What	Who
NDGA Support	NGDA Team, NGDATeam@fgdc.gov
Geoplatform.gov	GeoPlatform Service Desk, servicedesk@geoplatform.gov

NGDA Community Links	
Public Site	https://www.geoplatform.gov/A-16-NGDA-Theme-Community
Private Site – login required	https://www.geoplatform.gov/theme-lead/theme-lead-home

NGDA Management Plan Activities- Coordination Group Tasks (page 1 of 2)

- ❖ As the plan progresses additional tasks may be added.
- ❖ Table does not include tasks where the CG is only providing a support role to the task.

Action from the NGDA Management Plan	Tasks	Responsibility	Task Status
Action 1A.1: Develop a Process for Selecting and Maintaining Executive NGDA Theme Champions, NGDA Theme Leads, and NGDA Dataset Managers	Review process to replace/update Theme Lead Agency, Executive Theme Champions, Theme Leads, Dataset Managers	Coordination Group	Complete 10/3/14
Action 1B.3: Develop an Approval Process for Nomination/Removal of NGDA Datasets within the A-16 NGDA Portfolio	Coordination Group approval vote	Coordination Group	Complete 3/30/15
Action 1D.1: Develop NGDA Dataset Maturity Annual Assessment Survey and Tool	Coordination Group approval vote	Coordination Group	Complete 12/22/14
Action 1D.2: Develop NGDA Dataset Report Template and Tool	Coordination Group review and comment - LMA reports (Dataset and Theme Summary) and Dashboard	Coordination Group	Complete 11/20/15
Action 1D.3: Develop NGDA Theme Administrative Maturity Assessment Survey and Tool	Review of Theme Summary report	Coordination Group	Complete 11/20/15
	Coordination Group review and comment, work with Theme Leads to discuss comments if needed	Coordination Group	Not started - review updated version
	Coordination Group approval vote	Coordination Group	Not started
Action 1D.4: Develop Support Theme Strategic Plan Template and Tool	Coordination Group review template draft	Coordination Group	Complete 4/10/15
	Coordination Group approval vote	Coordination Group	Complete 7/24/15
	Coordination Group support development of Theme Strategic Plans	Coordination Group	Plans are due 6/30/16

NGDA Management Plan Activities- Coordination Group Tasks (page 2 of 2)

- ❖ As the plan progresses additional tasks may be added.
- ❖ Table does not include tasks where the CG is only providing a support role to the task.

Action from the NGDA Management Plan	Tasks	Responsibility	Task Status
Action 1D.5: Develop Annual Theme Report Template and Tool	Coordination Group review and comment on Theme Summary Report which is a first prototype of the Annual NGDA Theme Report	Coordination Group	Complete 11/20/15
	Coordination Group review and comment – Will reports created with the template meet their needs?		Not started
Action 1D.6: Develop NGDA Services/Applications Investment Report Template, Tool, and Report	Coordination Group approval vote	Coordination Group	Not started
Action 1D.7: Develop NGDA Portfolio Summary Report Template and Tool	Coordination Group review and comment - Does report meet their needs?	Coordination Group	Not started
Action 1E.1: Review/Revise the Definition of Geospatial Investment and Budget Reporting Codes	Request for information, links, docs related the authorizing legislation language that may provide definitions related to geospatial activities	Coordination Group	Complete 6/5/15
Action 2B.1: Complete and Submit NGDA Theme Strategic Plan	Coordination Group support Theme Leads developing plans	Coordination Group	Due June 30

Standards Update to Coordination Group

June 7, 2016



Julie Binder Maitra
FGDC OS

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Email: jmaitra@usgs.gov

LinkedIn: www.linkedin.com/in/juliebindermaitra

May 25, 2016 FGDC Standards WG meeting

The WG recommended the following standards for FGDC endorsement:

- INCITS/ISO 19115-1:2014[2014] Geographic information - Metadata - Part 1: Fundamentals
- INCITS/ISO 19157:2013[2014] Geographic information - Data quality

Michelle Anthony (USGS) gave an information briefing on the FGDC Service Status Checker, <http://registry.fgdc.gov/statuschecker/>

INCITS/ISO 19115-1:2014[2014]

- Defines the schema for describing geographic information and services with metadata. It provides information about identification, extent, quality, spatial and temporal aspects, content, spatial reference, portrayal, distribution, and other properties of digital geographic data and services.
- Reference:
<http://webstore.ansi.org/RecordDetail.aspx?sku=INCITS%2fISO+19115-1%3a2014%5b2014%5d>
- ISO 19115:2003 and CSDGM will be retained as FGDC-endorsed standards for legacy purposes



INCITS/ISO 19157:2013[2014]

- Establishes principles for describing quality of geographic data; defines components; specifies components and content structure of a register for data quality measures; describes general procedures for evaluating data quality; and defines data quality measures for evaluating and reporting data quality.
- Applies to data producers who provide quality information to assess how well a data set conforms to its product specification and data users who determine whether specific geographic data are of sufficient quality for their particular application.
- Does **not** define minimum acceptable levels of quality for geographic data.



INCITS/ISO 19157:2013[2014]

- Reference:
<http://webstore.ansi.org/RecordDetail.aspx?sku=INCITS%2fISO+19157%3a2013%5b2014%5d>
- ISO/TS 19138:2006, Geographic data – data quality measures will be withdrawn as an FGDC-endorsed standard.

Arctic Spatial Data Pilot

- OGC, USGS, Natural Resources Canada (NRCAN), and Arctic Spatial Data Infrastructure participants have issued a Request for Quotation (RFQ) and Call for Participation (CFP) in the OGC Interoperability Program's (IP) Arctic Spatial Data Pilot Phase-2 (Arctic SDP) initiative.
- OGC Arctic SDP will demonstrate distributed online environments for exchange of Arctic geospatial data. Distributed online Web services based on open standards supports processing, visualization, and representation.
- See <http://www.opengeospatial.org/pressroom/pressreleases/2435> for more information. Deadline is June 17.

Events

June

Jun 02	INCITS L1/U.S. TAG	
Jun 07	CG	
Jun 13-17	ISO TC 211 42th Plenary and meetings	
Jun 17	Arctic SDP	End date for RFI and CFP
Jun 20-24	OGC #OGCdublin16	
Jun 22	GWG 16-2 Voting Meeting	
Jun 27-Jul 01	Esri International UC	

July

Jul 12	CG	
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August

Aug 09	CG	
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September

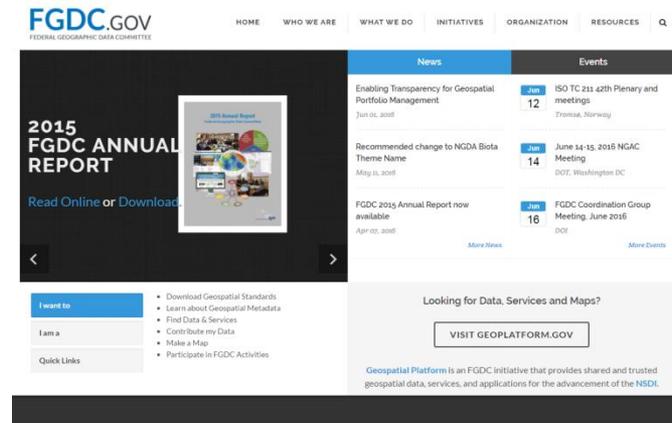
Sep 13	CG	
Sep 19-23	OGC #OGC tcOrlando2016	
Sep 26-30	INSPIRE Conference 2016	



FGDC Beta Website Feedback Summary

- ❖ Availability of Beta release of new FGDC website was announced on May 9 and at the May CG meeting with request for review and feedback
- ❖ Received 38 comments from 7 respondents
- ❖ Comment categories were 'Missing/Additional content', 'Typos', 'Formatting', 'Layout/Organization'.
- ❖ We are addressing all submissions
- ❖ Overall the site has been well received and all feedback has been positive

Visit preview.fgdc.gov



Contact: Vaishal Sheth, vsheth@fgdc.gov

New FGDC Website Public Release Timeline

- New website will be released prior to the FGDC Steering Committee meeting on June 16
- Announcement by Ms. Jennifer Gimbel, FGDC Chair



Contact: Vaishal Sheth, vsheth@fgdc.gov

Questions???

