Coordination Group Meeting
FGDC Business Report Update

Ken Shaffer

Deputy Executive Director

Federal Geographic Data Committee

December 13, 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

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CG Agenda Items

❖ FGDC Business Highlights

Contact: Ken Shaffer, FGDC OS

Read ahead: FGDC Business Highlights

❖ Spatial Water Data Subcommittee Report

Contact: Al Rea, USGS

Read ahead: pending

❖ NSDI Strategic Framework

Contact: John Mahoney, FGDC OS

Read Ahead: Strategic Planning Update

❖ Other Agency Announcements

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Committee's Decisions Summary

- ❖ The FGDC approved the NGDA Address Theme in August 2016. The theme lead Agencies are the Department of Transportation and the Department of Commerce, U.S. Census Bureau.
  - ❖ A large component of the Address Theme will be a National Address Database. In September 2016, the Department of Transportation completed a National Address Database pilot project that included identifying a minimum data content guideline and examining approaches to assist counties that haven't previously had electronic address data.

Committee's Decision Summary

❖ On September 21st, the Steering Committee approved the Architecture and Technology Working Group, and the Standards Working Group charters.

CG and SC Monthly Membership Changes

❖ No changes this month

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Steering Committee

❖ The FGDC Steering Committee met on September 29th at the South Interior Auditorium, Washington DC. Agenda Topics

- FGDC Business Activities
- NSDI Strategic Plan Framework Dialog
- National Address Database (NAD)
- NGAC Meeting Summary
- NGDA Water - Oceans and Coasts Theme Report
- Geospatial Platform Update
- USDA Data Management Policy Approach
- Doug D. Nebert NSDI Champion of the Year Award

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Executive Committee

❖ The Executive Committee met on October 27 at the Main Interior Building. Discussion summary:

 ❖ 2016 FGDC Annual Report

 ❖ Transition Strategy

 ❖ NSDI Strategic Framework Outline

 ❖ FGDC Interim Leadership

❖ The ExCom is reviewing FGDC's document for the new Administration transition team. Comments are due back Friday December 9th.

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December 14 NGAC Webinar Meeting

❖ Wednesday, Dec 14, 12:30 – 4:00 pm EST

❖ Registration required – contact Lucia Foulkes to register

❖ Agenda Topics:

- FGDC Updates
- NSDI Strategic Framework
- NGAC Transition Documents & Strategy
- Subcommittee Reports (Policy Framework, Emerging Technologies, Standards Coordination, Landsat Advisory Group
- Public Comment Period

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Administration Transition Documents

❖ The FGDC and NGAC developed documents that have complimentary content to help inform the incoming Administration about the breadth and importance of the use of geospatial information and tools to the federal government and the nation

❖ The documents are intended to provide succinct and impactful information

❖ FGDC Transition Paper

- Provides a summary of the impact of geospatial on the economy, concept of the NSDI and FGDC leadership role, calls for expansion of the National Geospatial Platform, and recommends key actions and priorities

❖ NGAC Transition Paper

- Describes how geospatial technology and data help the nation, makes recommendations on what the Federal Government can do, states how these efforts can help the new Administration achieve its goals, recognizes broad non-Federal support and engagement

❖ NGAC Transition InfoGraphic

- NGAC's urging the new Administration to commit to a strategic investment in geospatial programs, states how geospatial technology benefits the nation, provides economic impact statistics, lists 4 "Big Ideas"

- The FGDC and NGAC transition documents are posted to the FGDC website for access and use. www.fgdc.gov/ngac/2017transition

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National Geospatial Advisory Committee (NGAC)

NGAC Transition Documents:

❖ Two NGAC Transition reports:
- 2-page white paper
- Infographic

❖ Key themes:
- Support the development of critical national datasets
- Update the national geospatial policy framework
- Champion the expansion of the National Geospatial Platform
- Develop new geospatial partnerships to address national priorities
- Support the coordination and leadership of national geospatial activities

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NGAC Policy Framework Subcommittee

❖ <u>Membership</u>: Tony Spicci (chair), Molly Vogt (vice-chair), David Alexander, Bert Granberg, Kevin Pomfret, Laxmi Ramasubramanian, Amber Reynolds, David Wyatt

❖ <u>Task</u>: 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.

❖ <u>Status</u>:

- Subcommittee compiled comments & feedback on current version of Circular A-16.

- Draft paper discussed at Sept. NGAC meeting

- Final draft paper to be considered at December NGAC webinar

NGAC Emerging Technologies Subcommittee

❖ <u>Membership</u>: Doug Richardson (chair), Sarah Battersby (vice-chair), Pat Cummens, Matt Gentile, Jack Hild, Jeff Lovin, Rebecca Moore, Carl Reed, Gary Thompson, Jason Warzinik, May Yuan

❖ <u>Task</u>: 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.

❖ <u>Status</u>:

- Emerging Technologies spotlight sessions at June & Sept NGAC meetings

- Draft paper discussed at Sept. NGAC meeting

- Final draft paper to be considered at December NGAC webinar

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NGAC Standards Coordination Subcommittee

❖ <u>Membership</u>: Carl Reed (chair), Gen. William Reddel (vice-chair), Talbot Brooks, Xavier Irias, Harvey Thorleifson, Frank Harjo

❖ <u>Task</u>: 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.

❖ <u>Status</u>:

- Subcommittee has developed initial outline and case study example

- Initial draft paper discussed at Sept NGAC meeting

- Revised draft paper to be reviewed at December NGAC meeting. Final paper to be considered at March 2017 NGAC meeting.

NGAC Landsat Advisory Group

- ❖ <u>Membership</u>: Joanne Gabrynowicz (chair), Frank Avila (vice-chair), Roger Mitchell, Rebecca Moore, (additional non-NGAC members)

- ❖ <u>Task</u>: LAG is reviewing two topics, in consultation with the USGS program office:
  - Task 1: Revisit Smallsat Investigation. Focus on smallsats and look at requirements for future Landsat missions.
  - Task #2: Temporal Data Cube Study. Analyze feasibility to implement temporal cubes and products to support projection or forecast models of land change trends.

- ❖ <u>Status</u>:
  - LAG has held initial meetings & developed work group assignments
  - LAG to provide status report at December NGAC meeting
  - LAG responses to be developed by March/June 2017

NGAC Contributions to NSDI Framework

NSDI Work Group   ➡️   **Overall Scope**

NGDA Work Group   ➡️   **Goal 2, Objective 2.1**

Policy Framework Subcommittee   ➡️   **Goal 3, Objectives 3.1, 3.2, 3.3**

Emerging Tech Subcommittee   ➡️   **Part I, Emerging Trends; Part III, Emerging Topics**

Standards Coordination Subcommittee   ➡️   **Goal 2, Objective 2.2**

NGAC Next Steps

❖ December 14 Webinar Meeting

❖ 2017 NGAC Appointments

- New NGAC appointments to be finalized in early January 2017

❖ 2017 NGAC Meeting Dates:

- March 21-22 (DOI)
- June 13-14 (DOI)
- September 6-7 (NCTC)

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Coordination Group Meeting Dates

2017 FGDC CG Meeting Calendar

- ❖ January 10, 2017 - DOI Rachel Carson Room
- ❖ February 14, 2017 - DOI Rachel Carson Room
- ❖ March 14, 2017 - DOI Rachel Carson Room
- ❖ April 11, 2017 - DOI Rachel Carson Room
- ❖ May 9, 2017 - DOI Rachel Carson Room
- ❖ June 6, 2017 - DOI Rachel Carson Room
- ❖ July 11, 2017 - DOI Rachel Carson Room
- ❖ August 29, 2017 - DOI Kiowa Room
- ❖ September - No CG meeting
- ❖ October 3, 2017 - DOI Rachel Carson Room
- ❖ November 14, 2017 DOI Rachel Carson Room
- ❖ December 12, 2017 DOI Rachel Carson Room

FGDC Business Update

2014 GAO Engagement

NGDA Management Plan Activities

Geospatial Platform Workshop

2016 FGDC Annual Report

FGDC Standards Update

2014 GAO Engagement – Actions Status

❖ 2015 GAO report FGDC actions (3 remaining)
  ❖ Create address data theme and associated subcommittees and working groups to further a national address database

    Status: A first meeting of the FGDC Address Subcommittee is scheduled for December 14, 2016.

❖ GAO developing their annual status update on all actions determined to deal with duplication and potential cost savings. FGDC OS coordinated responses to questions:
  ❖ USGS: Status of Water – Inland NGDA strategic and implementation plan actions
  ❖ DOT/DOC: Status of actions supporting the new Address NGDA Theme
  ❖ OMB/FGDC OS: Information on how the NGDA Theme implementation plans support investment reporting, and how to locate "planned" investment records from agencies on the GeoPlatform Marketplace

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NGDA Portfolio Management - Current Activities

❖ NGDA MP Evaluation Report Project
   https://cms.geoplatform.gov/ncc/filedepot_download/5891/65

❖ 2015 Lifecycle Maturity Assessment Analysis Report
   ❖ In final adjudication

❖ Web Services and Metadata Project
   ❖ 83 web services identified, many more in progress

❖ Theme Implementation Plans
   ❖ Discussed progress and status at 12/6 Theme Lead Meeting
   ❖ Framework Themes due by 12/31/16 and all Themes are required to report at 3/31/17 (due 4/28/17)

Theme Name	Theme Name
Biodiversity and Ecosystems Theme	Imagery Theme*
Cadastre Theme*	Land Use Land Cover Theme
Climate and Weather Theme	Real Property Theme
Cultural Resources Theme	Soils Theme
Elevation Theme*	Transportation Theme*
Geodetic Control Theme*	Utilities Theme
Geology Theme	Water Inland Theme*
Governmental Units Theme*	Water Oceans and Coasts Theme*

Indicates A–16 Framework Theme

NGDA Portfolio Management - Current Activities

❖2017 Lifecycle Maturity Assessment

  ❖Core team members identified

  ❖Schedule December kick off and working meeting to meet tight time frame

  ❖Anticipate release in May 2017 for Dataset Managers to complete before end of fiscal year

Name	Agency
Kyle Arndt	NPS
Anne Ball	NOAA
Wendy Blake-Coleman	EPA
David Cackowski	Census Bureau
Chad Hancher	Dept. of Labor
Roger Johnson	NPS
Lisa McBride	Forest Service
Ted Payne	Agriculture
Lorri Peltz-Lewis	Forest Service
Charles Spicer	Census Bureau
Doug Vandegraft	BOEM

NGDA Inventory Updates

❖ Dataset Manager Changes

NGDA Dataset	New Dataset Manager	Previous Dataset Manager
Airports	Jose Alfonso, FAA Jose.A.Alfonso@faa.gov	Terry Rhea, FAA Terry.L.Rhea@faa.gov
Runways	Jose Alfonso, FAA Jose.A.Alfonso@faa.gov	Terry Rhea, FAA Terry.L.Rhea@faa.gov
Geodetic Control Information on Passive Marks	Godfred Amponsah, NOAA godfred.amponsah@noaa.gov	Krishna Tadepalli, NOAA krishna.tadepalli@noaa.gov

Geospatial Platform Workshop 12/7-8/16

- ❖ Participation: 80 in-person, more than 125 online

- ❖ Purpose: Provide information about current and future capabilities

Cloud services	Map viewer
Marketplace	Collaboration communities
Data search	Services checker/performance dashboard
Workflow manager	Services Performance dashboard
Map Manager	NGDA data maturity dashboard

- ❖ Highlighted agencies' collaboration and integration

- ❖ Immediate interest in new communities and collaborating with GeoPlatform on data and activities

- ❖ Next Steps: present on current and emerging GeoPlatform capabilities at CG meetings in 2017

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GeoPlatform.gov Release 6 – 9/30/16

The Technical Team promoted the R6 release of GeoPlatform.gov to the Production environment in the DOI Cloud. New services and enhancements included the following:

❖ (NEW!) Dataset Search
- Replaces the legacy Drupal CKAN Search Module
- Faster performance, better reliability, and fixes multiple search restrictions and bugs when searching Data.gov Catalog

❖ Performance Dashboard
- (NEW!) Service Dashboard for enhanced reporting and monitoring of web services
- Updated UI for LMA Dashboard
- Integrated with new RegP technology and new FGDC Service Status Checker

❖ (NEW!) CMS Core Bundle
- Re-usable WordPress-based CMS with templates and tools for building new GeoPlatform Community sites and hosting other customized content and capabilities.

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GeoPlatform.gov Release 6 (cont'd)

- ❖ (NEW!) Geospatial Interoperability Reference Architecture (GIRA) subsite
  - Built and deployed using the "CMS Core Bundle"
- ❖ GeoPlatform Landing Page
  - Updated UI, "Featured" cards, and FAQ content
- ❖ Map Viewer
  - Improved Search; now returns partials; updated NGDA layers
- ❖ Marketplace
  - Updated UI for adding projects and data layers
- ❖ Map Manager
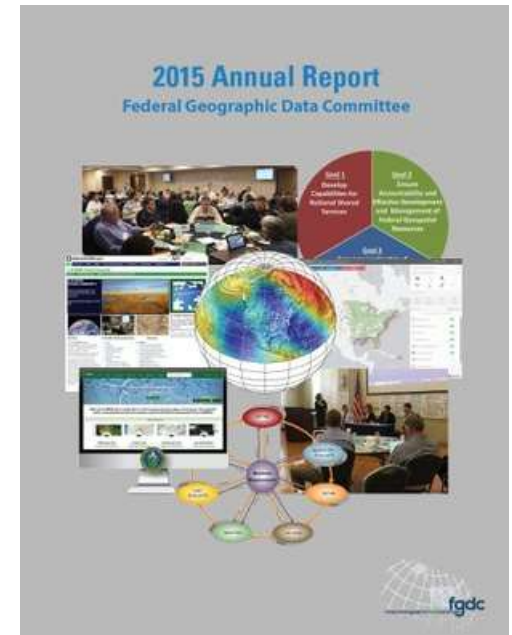 - Users can no longer create a gallery with the same name as an existing gallery.

GeoPlatform.gov Release 6 (cont'd)

❖ New YouTube tutorials, awaiting final approval and configuration in the FGDC YouTube channel before making this public and accessible from the GeoPlatform. Stay tuned for these!

❖ The GeoPlatform registry for new/renamed NGDA Datasets and the associated NGDA Service resources were updated last week. These should now be in the FGDC Service Status Checker and being reported in the Service Dashboard.

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FGDC 2016 Annual Report

- ❖ Draft in final editing and layout phase
- ❖ Digital (.pdf) version anticipated by mid-December
- ❖ Printed copies in January

ISO Metadata Summit

❖ Goal: To engage the NSDI metadata community to identify recommendations for enabling interoperable ISO metadata that supports data and services

❖ May 24, 2017

❖ U.S. Geologic Survey, Reston, VA

❖ Audience: federal and non-federal metadata practitioners

❖ Hands-on GeoPlatform metadata tool session

❖ Presentations, breakout sessions, and discussion to identify actions needed for agencies and community members to meet the goal

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Topics

❖ FGDC Steering Committee endorsement of INCITS/ISO standards

❖ Metadata and related standards

❖ Standards tracking workbook

❖ Standards-related events

❖ Questions and contact information

SC endorsement of ISO related standards

- The FGDC Steering Committee ballot to endorse INCITS/ISO 19115-1:2014[2014], Geographic information - Metadata - Part 1: Fundamentals, and INCITS/ISO 19157:2013[2014], Geographic information - Data quality, closed on November 30.

- Voting results: 17 Yes, 0 No; 8 No response

Metadata and related standards

Standard	Information about standard
ISO 19110, Feature cataloguing	ISO 19110:2016 cancels and replaces ISO 19110:2005 + Amendment 1. It defines how to organize feature types that are represented in a digital form into a feature catalogue. ISO 19110:2016 is pending adoption as an American National Standard.
ISO 19111 Spatial referencing by coordinates	This standard describes metadata for a coordinate reference system. Under revision.
ISO 19112, Spatial referencing by geographic identifiers	This standard describes metadata for reference systems that use identifiers other than coordinates, for example, gazetteer, postal code, etc. Under revision.
ISO 19115, Metadata -- Part 1: Fundamentals: Amendment 1	This standard adds a party identifier to contact information and a way to specify the level and extent of the spatial representation type, which is useful especially when multiple types are used. In progress.
ISO 19115-2 Extensions for imagery and gridded data	This standard specifies additional metadata elements and schema for imagery and gridded geospatial datasets. In revision.
ISO 19115-3 XML schema implementation of metadata fundamentals	ISO 19115-3:2016 was published on August 12. Pending adoption as an American National Standard.

Metadata and related standards

Standard	Information about standard
ISO 19139:2007 Metadata XML Schema implementation	Self-explanatory
ISO 19139-1 Metadata XML Schema implementation	This standard revises ISO 19139:2007. In progress.
ISO 19139-2:2012, Metadata -- XML schema implementation -- Part 2: Extensions for imagery and gridded data	ISO/TS 19139-2:2012 was confirmed on 2016-06-27. It will be withdrawn when ISO 19115-2 is published.
ISO 19157:2013/CD Amd 1, Geographic information - Data quality – Amendment 1: Describing data quality using coverages	This standard adds a method for describing data quality of geographic information that uses a coverage geospatial type. In progress.
ISO 19157-2 Data Quality XML Schema implementation	ISO 19157-2:2016 was published on November 28. Pending adoption as an American National Standard.

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Metadata and related standards

Standard	Information about standard
ISO 19165 Preservation of digital data and metadata	ISO 19165 defines a preservation metadata extension of ISO 19115-1. It defines requirements for long-term preservation of digital geospatial data. Requirements include metadata, provenance, context and other items necessary to fully understand and reuse the archived data. A geospatial archival information package shall be fully self-describing and allow future reconstruction of the dataset without external documentation. In progress. A new project might be an extension to ISO 19165 for Remote Sensing Data and Derived Digital Products.

Standards tracking workbook

Open RFC on the standards tracking workbook from people who work with standards. Questions:

❖ Has your agency downloaded it?
❖ How has your agency used it?
❖ Do you have suggestions for improving its use/effectiveness?

Standards related events

Year	Month	Date(s)	Event	Location
2016	November	11/28-12/02	GSDI 15th World Conference	Taipei, Taiwan
		11/28-12/02	ISO TC 211 Plenary and meetings	Redlands, California
	December	12/04-12/08	OGC	Taichung, Taiwan
		12/12-12/16	American Geophysical Union (AGU)	San Francisco, California
		12/13	CG	
2017	March	03/20-03/24	OGC	Delft, The Netherlands
	May	05/29-06/02	ISO TC 211 Plenary and meetings	Stockholm, Sweden
	June	06/26-06/30	OGC	St. John's, Newfoundland, Canada
	July	07/02-07/07	International Cartographic Conference (ICC 2017)	Washington, DC
		07/23-07/28	IEEE International Geoscience and Remote Sensing Symposium (IGARSS)	Fort Worth, TX

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Questions and contact information

Julie Binder Maitra
FGDC Standards Coordinator
Phone: 703-648-4627
Email: jmaitra@usgs.gov
Web: www.fgdc.gov/standards

Linked in.

Profile: https://www.linkedin.com/in/juliebindermaitra
FGDC Standards WG:
https://www.linkedin.com/groups/8243676

Questions???