

# Coordination Group Meeting FGDC Business Highlights\*

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*Federal Geographic Data  
Committee*

*December 13, 2016*



\*From the detailed monthly business report

# Executive Committee

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- ❖ 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 were due back Friday December 9<sup>th</sup>.

# Administration Transition Documents

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- ❖ 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](http://www.fgdc.gov/ngac/2017transition)

# National Geospatial Advisory Committee (NGAC)

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## 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

# NGAC Policy Framework Subcommittee

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- ❖ 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.
- ❖ Status:
  - 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

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- ❖ 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.
- ❖ Status:
  - 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

# NGAC Standards Coordination Subcommittee

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- ❖ 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.
- ❖ Status:
  - 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

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- ❖ Membership: Joanne Gabrynowicz (chair), Frank Avila (vice-chair), Roger Mitchell, Rebecca Moore, (additional non-NGAC members)
- ❖ Task: 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.
- ❖ Status:
  - 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

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**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

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- ❖ 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)

# CG and SC Monthly Membership Changes

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❖ No changes this month

# Coordination Group Meeting Dates

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## 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

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2014 GAO Engagement  
NGDA Management Plan Activities  
Geospatial Platform Workshop  
2016 FGDC Annual Report  
FGDC Standards Update

# 2014 GAO Engagement – Actions Status

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- ❖ 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

# NGDA Portfolio Management - Current Activities

- ❖ NGDA MP Evaluation Report Project

[https://cms.geoplatform.gov/ncc/filedepot\\_download/5891/65](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 Vandegrift	BOEM

# NGDA Inventory Updates

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## ❖ 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

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- ❖ Participation: 80 in-person, more than 125 online
- ❖ Purpose: Provide information about current and future capabilities

Cloud services

Marketplace

Data search

Workflow manager

Map Manager

Map viewer

Collaboration communities

Services checker/performance dashboard

Services Performance dashboard

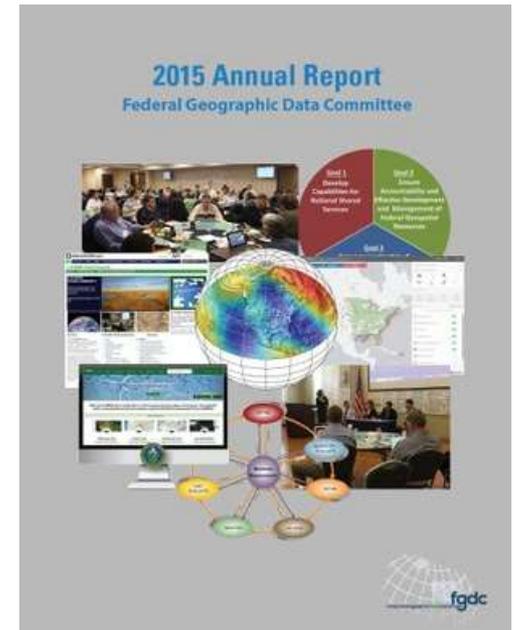
NGDA data maturity dashboard

- ❖ 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

# FGDC 2016 Annual Report

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



# ISO Metadata Summit

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- ❖ 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

# FGDC Standards

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## 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
<b>ISO 19110, Feature cataloguing</b>	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.
<b>ISO 19111 Spatial referencing by coordinates</b>	This standard describes metadata for a coordinate reference system. Under revision.
<b>ISO 19112, Spatial referencing by geographic identifiers</b>	This standard describes metadata for reference systems that use identifiers other than coordinates, for example, gazetteer, postal code, etc. Under revision.
<b>ISO 19115, Metadata -- Part 1: Fundamentals: Amendment 1</b>	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.
<b>ISO 19115-2 Extensions for imagery and gridded data</b>	This standard specifies additional metadata elements and schema for imagery and gridded geospatial datasets. In revision.
<b>ISO 19115-3 XML schema implementation of metadata fundamentals</b>	ISO 19115-3:2016 was published on August 12. Pending adoption as an American National Standard.

# Metadata and related standards

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

# Metadata and related standards

Standard	Information about standard
<b>ISO 19165 Preservation of digital data and metadata</b>	<p>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.</p> <p>A new project might be an extension to ISO 19165 for Remote Sensing Data and Derived Digital Products.</p>

# Standards tracking workbook

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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?

Send your responses to:

Julie Binder Maitra, FGDC Standards Coordinator.

Phone: 703-648-4627,

Email: [jmaitra@usgs.gov](mailto:jmaitra@usgs.gov),

Web: [www.fgdc.gov/standards](http://www.fgdc.gov/standards)

# 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???