

NOAA GEOSPATIAL SYSTEMS ASSESSMENT

EDM VIRTUAL WORKSHOP:
INTRO SESSION
JUNE 25, 2013

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Geospatial Data Manager
NOS/Office of the ACIO

TASKING AND PURPOSE

Tasking

Address NOAA Leadership questions on NOAA 'geospatial systems' and their interactions, potential overlap, options for harmonizing and ideas for increased efficiencies.

Purpose

- Leadership: information necessary to evaluate whether we are meeting user requirements as well as recommendations to increase efficiencies and/or reduce duplication
- Technical: information on geospatial standards, technology approaches, and best practices to improve NOAA geospatial products

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DEFINITION & OVERVIEW

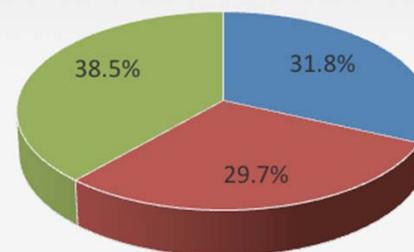
“Geospatial System” Definition

- *“a system that performs at least one of the following functions: data discovery, integration, access, visualization, and/or analysis.”*
- *It should be integrated in part or whole by NOAA and/or its partners and allow users to manage, share, and use spatial data and related information to address a variety of needs.”*

Process Overview

1. NOS Proof of Concept – Developed overall process, survey tool, questions, implementation, detailed analysis
2. NOAA – Varied approach to system definition, LO-level implementation

Is this system the authoritative or original source for any of the data it provides?



- Yes, authoritative source for all its data.
- No, it republishes data from one or more external sources.
- Both, it's a mixture of authoritative and republished data sources.

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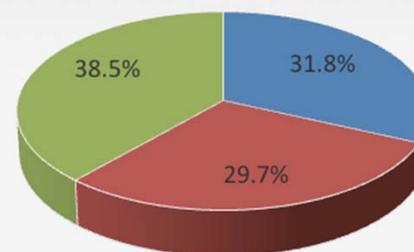
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GEOSPATIAL ASSESSMENT PROCESS

Level 1 - Baseline Inventory

Purpose: *Gather consistent baseline information on all systems*

■ Includes:

- Generic Information (contact, access point, NOAA partners)
- Purpose, Mandates, Target Audience
- System Architecture, Core Technology, Functionality, NOAA System ID
- Geospatial Standards, Data Formats, Data Delivery

Level 2 - Detailed Assessment

Purpose: *Evaluate user requirements and potential overlaps or synergies*

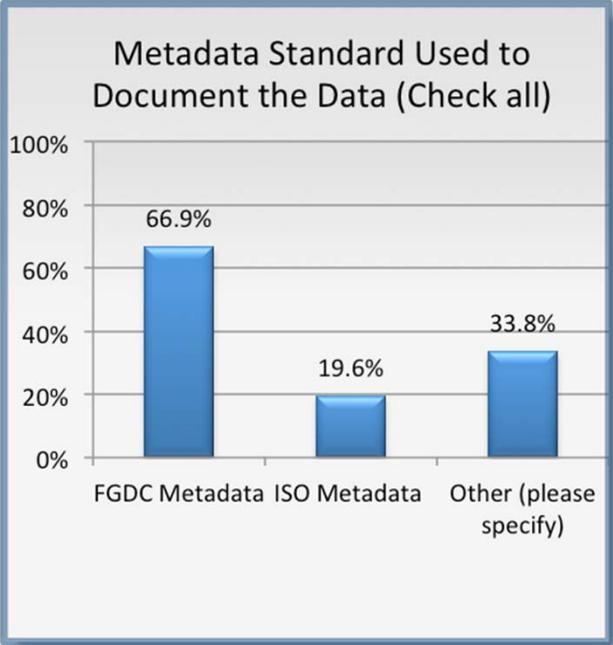
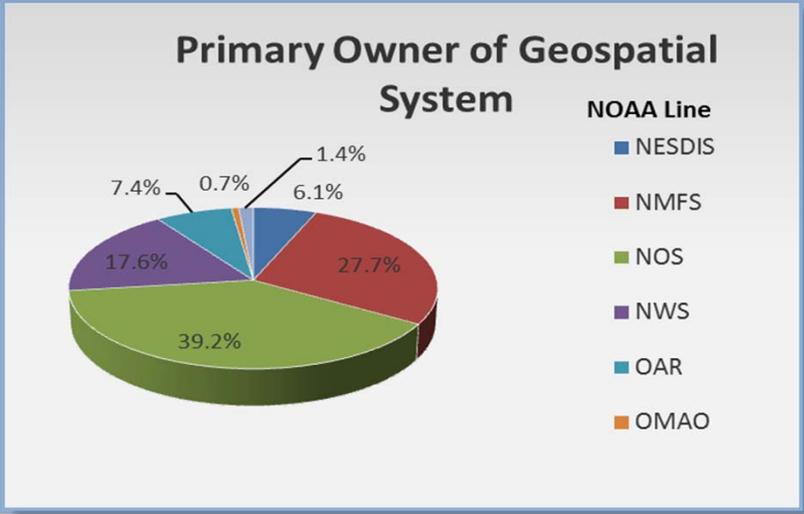
■ Includes:

- Detailed Requirements
- Physical Location, Future Enhancements, Resources and Funding Sources
- Collaboration, Internal and External Dependencies (Services)
- Outreach, Metrics, User Feedback

NOAA WIDE - SAMPLE RESULTS

■ **Total # of Systems: 148**

- NOS: 58
- NESDIS: 9
- NMFS: 41
- OCIO: 2
- NWS: 26
- OMAO: 1
- OAR: 11



Metadata "Other" Response Examples (33.6%):

- "None"
- "Not sure what this means?"
- "Custom" "home-grown, various"
- "In-house metadata format"
- "Whatever ESRI baselined"

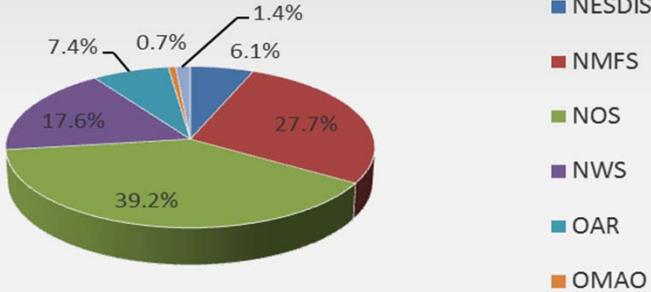


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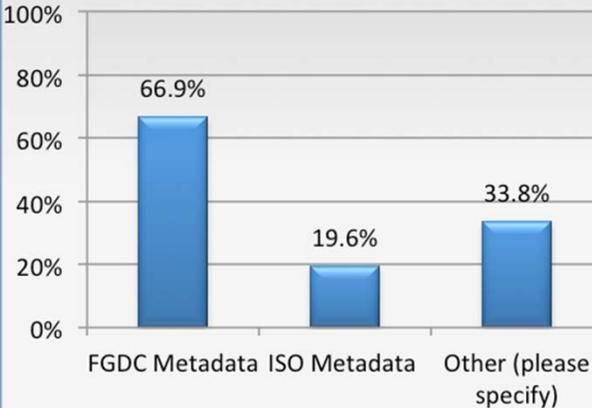
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Primary Owner of Geospatial System



Metadata Standard Used to Document the Data (Check all)



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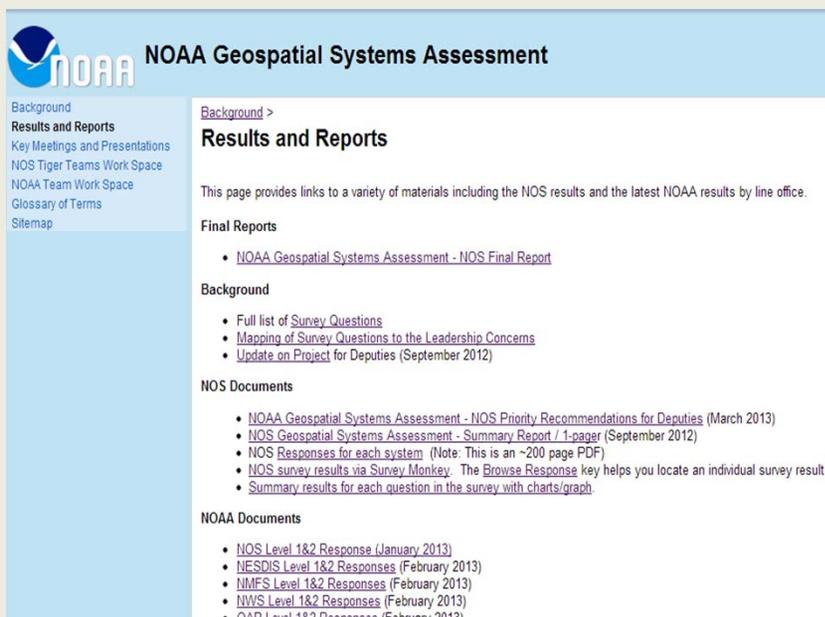
Is there a NOAA Data Management Plan (DMP)



RESULTS, REPORTS & RESOURCES

NOAA Geospatial Systems Assessment – Google Site

(<https://sites.google.com/a/noaa.gov/geosystemsassessment/home>)



NOAA Geospatial Systems Assessment

Background >
Results and Reports

This page provides links to a variety of materials including the NOS results and the latest NOAA results by line office.

Final Reports

- [NOAA Geospatial Systems Assessment - NOS Final Report](#)

Background

- Full list of [Survey Questions](#)
- [Mapping of Survey Questions to the Leadership Concerns](#)
- [Update on Project](#) for Deputies (September 2012)

NOS Documents

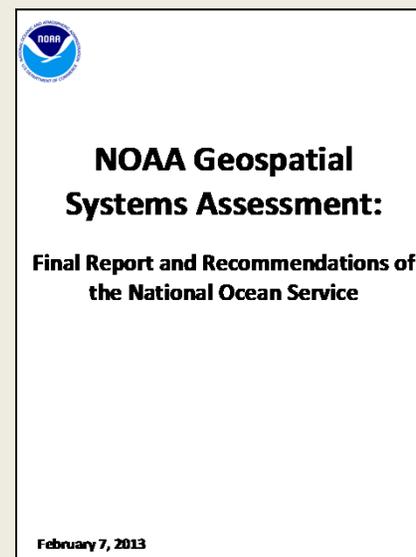
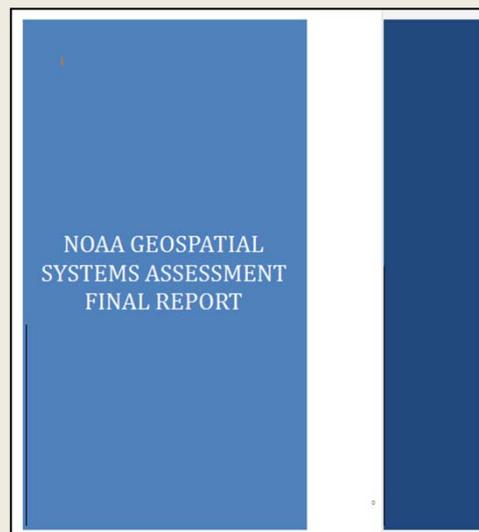
- [NOAA Geospatial Systems Assessment - NOS Priority Recommendations for Deputies](#) (March 2013)
- [NOS Geospatial Systems Assessment - Summary Report / 1-pager](#) (September 2012)
- [NOS Responses for each system](#) (Note: This is an ~200 page PDF)
- [NOS survey results via Survey Monkey](#). The [Browse Response](#) key helps you locate an individual survey result.
- [Summary results for each question in the survey with charts/graph](#).

NOAA Documents

- [NOS Level 1&2 Response \(January 2013\)](#)
- [NESDIS Level 1&2 Responses](#) (February 2013)
- [NMFIS Level 1&2 Responses](#) (February 2013)
- [NWIS Level 1&2 Responses](#) (February 2013)
- [OAR Level 1&2 Responses](#) (February 2013)

Final Reports:

1. NOAA-wide Summary Report
2. NOS Final Report & Recommendations



ACKNOWLEDGEMENTS

NOAA Geospatial Systems Assessment Contributors

NOAA Geospatial Assessment Core Team

- Tony LaVoi, NOAA Geospatial Information Officer
- Kim Jenkins, National Ocean Service Office of the Assistant Chief Information Officer
- Megan Trembl, NOAA Coastal Services Center
- Adam Bode, NOAA Coastal Services Center
- Randy Warren, NOAA Coastal Services Center
- Michele Jacobi, NOAA Office of Response & Restoration

In collaboration with the NOAA GIS Committee LO Representatives and Assessment Contributors:

- National Marine Fisheries Service (NMFS) – Tim Haverland, Jan Benson, Tiffany Vance
- National Weather Service (NWS) – Ira Graffman, Jack Settlemaier, Craig Hegemann
- National Environmental, Satellite and Data Information Service (NESDIS) – Sharon Mesick, Matthew Austin
- National Ocean Service (NOS) – John Kelley, Kari Sheets, Sheri Farrell
- Office of Oceanic and Atmospheric Research (OAR) – Chris MacDermaid
- Office of Marine and Aviation Operations (OMAO) – John Adler
- Office of the Chief Information Officer (OCIO) – Heather Gilbert

BACKUP SLIDES

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RESULTS IN ACTION

■ Technical

- Staff collaborating to develop internal guidance for NOAA developers and data managers delivering data via Web Services

Recommendation – Systems Provide Data via Services	
Proposed Action 6	NOS data stewards and system owners will make data available and accessible online via Web services or other Internet-based mechanisms whenever possible.
Measure of Success	FY 2013 semi-annual report on the number of Web services provided by NOS geospatial systems [trend analysis] will be monitored and reported on a quarterly basis via the NOS Geospatial Dashboard.
Responsible Party	NOS GIS Team, program office representatives, system owners
References	NOS Tiger Team 3 – Collaboration & Standardization work space for working documents, diagrams, and inventories relevant to this recommendation.

- 28% of Level 2 systems rely upon on other NOAA Web or map services.
- 57% of systems provide access to Web services that others can consume