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FEDERAL GEOGRAPHIC DATA COMMITTEE

2021 Covered Agency Annual Report and Self-Assessment
for
Department of State

Geospatial Data Act of 2018
Section USC 43 Sec 2808(a) Requirements

February 4, 2022

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Introduction

The Geospatial Data Act of 2018 (GDA) was signed into law on October 5, 2018. The GDA was included as a component of the FAA Reauthorization Act (H.R. 302, P.L. 115-254). The GDA is now in U.S. Code, Title 43 – Public Lands, Chapter 46: GEOSPATIAL DATA.

USC 43 Sec 2808(b) of the Geospatial Data Act (GDA) requires each covered agency[1] to submit to the Federal Geographic Data Committee (FGDC) "an annual report regarding the achievements of the covered agency in preparing and implementing the strategy described in subsection (a)(1) and complying with the other requirements under subsection (a)." [https://fgdc.gov/gda/online]

This document serves as the Department of State's annual report to the FGDC covering the period from October 1, 2020 through Fiscal Year 2021 (September 30, 2021). The report was developed through a self-assessment template developed by the FGDC agencies. Annual reports span one fiscal year. The report includes a rating for each covered agency responsibility of "meets expectations," "made progress toward expectations," or "fails to meet expectations," as required by the GDA. A summary and evaluation of all the covered agency reports will be generated by FGDC and provided to the National Geospatial Advisory Committee (NGAC) for review and comment. The summary reports, along with the NGAC comments, will also become part of the biennial FGDC GDA report to Congress and will be published online via the FGDC GDA pages [https://fgdc.gov/gda].

This report is based on a standardized questionnaire and self-assessment score for each covered agency responsibility. The Department of State has maintained documentation supporting the responses provided for this assessment. This information may be reviewed as part of the biennial Inspector General (IG) audits of covered agencies.

A recommended self-assessment key has been provided for each responsibility. In some cases, optional text is provided for additional insights or to justify a self-assessment selection. Any optional responses provided are not a factor in the self-assessment.

Where data or datasets are referenced,[2] information relates to all geospatial datasets owned or managed by the Department of State that are, or should be, available to the public.

To support a more comprehensive picture of agency compliance and related activities, each agency had the option to submit up to a 2-page document, using the survey, as part of the agency's submission. If provided, the document may include highlights and examples that can supplement the FGDC report to Congress, support the feedback process with the NGAC, or provide context to Office of the Inspector General (OIG) findings.

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[1] GDA definition of *agency*: https://www.fgdc.gov/gda/online#the-term-''covered-agency''—means—an-executive-department-as-def

[2] GDA definition of *geospatial data*: https://www.fgdc.gov/gda/online#the-term-%E2%80%98%E2%80%98geospatial-data%E2%80%99%E2%80%99%E2%80%94means-information-that-is-tied-to-a

Self-Assessment for Department of State

USC 43 Sec 2808(a)(1) Covered Agency Geospatial Strategies

GDA Requirement	Prepare, maintain, publish, and implement a strategy for advancing geographic information and related geospatial data and activities appropriate to the mission of the covered agency, in support of the strategic plan for the National Spatial Data Infrastructure
Agency Self-Assessment	**Meets Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	  o Yes to Question 1.1 and 1.2
	• **Made progress toward expectations =**
	  o Yes to Question 1.1 **and** No to Question 1.2
	• **Fails to meet expectations =**
	  o No to Question 1.1 and 1.2

Table 1. GDA USC 43 Sec 2808(a)(1) Covered Agency Geospatial Strategies Requirement and Self-Assessment Criteria.

Clarifying Text: FGDC developed and released a new national strategic plan for the development of the National Spatial Data Infrastructure (NSDI) [the GDA, USC 43 Sec 2804(c)], which was approved by the FGDC Steering Committee in November 2020. Covered Agency Geospatial Strategies [the GDA, USC 43 Sec 2808(a)(1)], which will support the goals in the NSDI strategic plan, were due to be completed and submitted for agency approval by February 26, 2021, per FGDC guidance. For more information, please visit http://fgdc.gov/nsdi-plan.

1.1 Is your agency's strategy complete, approved, and being implemented?

- Yes

1.2 Is your agency's strategy published?

- Yes

If yes, please provide the URL or briefly describe how public access is being provided.

Landing Page: https://www.state.gov/geospatial-data-strategy/

Direct link to strategy: https://www.state.gov/wp-content/uploads/2021/09/DoS-Geospatial-Data-Strategy_Digital-Version_Accessible-9162021-with-Signature-page_Accessible-9222021.pdf

1.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(1), "Prepare and implement a strategy for advancing geospatial data activities appropriate to the agency's mission." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department published its first Geospatial Data Strategy (GDS) in September 2021. The three-year vision of the GDS includes four strategic goals and 13 objectives that will expand the effective use of geospatial data and technologies across the Department. The GDS provides a framework to improve collaboration across agencies, increase the efficiency of operations, decision-making, and transparency, and provide a reporting mechanism for the Department's investments in geospatial data. The GDS was written to complement the Department's Enterprise Data Strategy (EDS) and contains crosswalk tables that align with the goals and objectives of the National Spatial Data Infrastructure (NSDI).

GDA Requirement	Collect, maintain, disseminate, and preserve geospatial data such that the resulting data, information, or products can be readily shared with other federal agencies and non-federal users.
Agency Self-Assessment	Meets Expectations

KEY to Self-Assessment	• **Meets expectations =**
	  ○ *Data is currently shared* selections for **all** agency appropriate parties for Question 2.1 and Yes to Questions 2.2 and 2.3
	• **Made progress toward expectations =**
	  ○ *Data is currently shared* selections for **some** appropriate parties for Question 2.1, **or** Question 2.2 and 2.3 have a mix of answers
	• **Fails to meet expectations =**
	  ○ No to Questions 2.1, 2.2, and 2.3

Table 2. GDA USC 43 Sec 2808(a)(2) Support Data Sharing Requirement and Self-Assessment Criteria.

Clarifying text:

✓ This section does not include efforts related to partners, which are covered under Question 7, USC 43 Sec 2808(a)(7).

✓ Review the GDA definition of geospatial data to consider the questions in this section.

✓ Remember, your agency's answers should include information about all geospatial datasets owned or managed by your agency that are, or should be, available to the public in accordance with agency statutory authorities and missions; not just National Geospatial Data Asset (NGDA) Datasets.

✓ Sharing data on the Internet using open standards, protocols and formats makes it part of the NSDI.

✓ Additional detail on the definition of geospatial data may be provided by OMB Circular A-16 when finalized.

✓ Geospatial data that will not or cannot be distributed to the public does not need to be considered for GDA-related responses as per the GDA.

2.1 Does your agency ensure that all eligible geospatial data is managed so it can be readily shared and is it provided in open formats, as appropriate? (This will include agency open government and transparency guidelines.) (Select all that apply - *see Appendix A for complete list of optional responses*)

• Data is currently openly shared to the public.
• Data is currently shared on a limited basis with federal partners.
• Data is currently shared on a limited basis with non-federal users.

2.2 Does your agency disseminate eligible geospatial data in a way that can be readily shared in open formats (for example, using machine readable formats or searchable metadata)? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Yes, eligible geospatial data and metadata are shared in open formats.

2.3 Are maintenance processes in place to ensure other federal agencies and non-federal users have access to the most recent data in addition to data and metadata updates and corrections? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Yes, agency policies exist to ensure all programs implement data maintenance processes.

2.4 Optional Question: Would the agency like to provide up to 5 key examples of ongoing or planned activities that ensure eligible geospatial data and associated metadata can be easily shared, understood, and re-used by others, now and in the future?

- Yes

Planned or Ongoing Activities	Description
Data.gov	The Department of State currently shares 381 datasets on data.gov.
https://hiu.state.gov/#home	The Department of State's Humanitarian Information Unit (HIU) site provides access to map-based infographics on humanitarian challenges and complex emergencies worldwide. The data page provides links to the HIU data catalog containing the Large Scale International Boundaries (LSIB) dataset and metadata as well as links to formal Cartographic Guidance Bulletins.
GeoPlatform.gov	The Department of State is responsible for the creation and management of the Large Scale International Boundaries (LSIB) data set, a National Geospatial Data Asset (NGDA).
Climate Security & Resilience (CS&R) Dashboard	The Climate Security & Resilience (CS&R) Dashboard is a tool used for planning and project prioritization for evaluating the magnitude of the Bureau of Overseas Buildings Operations (OBO) facilities exposed to natural hazards risks that can be exacerbated by climate change. The CS&R Dashboard will also serve as a database for the natural hazard vulnerability of DOS posts, enabling risk analysis scoring for the full DOS overseas portfolio.

Table 2.a. Optional Information Regarding Ongoing or Planned Geospatial Data Sharing Activities.

2.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(2), "collect, maintain, disseminate, and preserve geospatial data such that the resulting data, information, or products can be readily shared with other Federal agencies and non-Federal users." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department of State engages in several initiatives to promote the awareness, value, and use of geospatial data and analysis, all while upholding the highest levels of data and scientific integrity. The Office of the U.S. Global AIDS Coordinator manages the United States President's Emergency Plans for AIDS Relief (PEPFAR) GIS listserv that is open to all GIS practitioners, cartographers, and map enthusiasts with a .mil or .gov address.

The Bureau of Intelligence and Research, Office of the Geographer and Global Issues (INR/GGI) continues to host workshops and briefings to provide Regional Environment, Science, Technology, and Health Officers, bilateral Officers, and others at post about geospatial capabilities for understanding and addressing socio-economic issues.

The MapGive Initiative hosts public events to promote participatory mapping (primarily on the OpenStreetMap platform) for humanitarian and development priorities. INR/GGI Humanitarian Information Unit partnered with the Bureau of Population, Refugees, and Migration, PEPFAR, and the U.S. Agency for International Development by hosting and inviting volunteer mappers to learn about mapping to support diplomacy.

The Office of Management Strategy and Solutions, Center for Analytics is the Department's official enterprise data and analytics team that manages GeoState, the Department's Enterprise Geographic Information System portal that enables teams from different bureaus and offices to collaborate, share, and access data within the Department.

The Bureau of Consular of Affairs collects, manages, and provides information relating to travel advisories, embassy and consulate data disseminated on the internet at https://travel.state.gov and on Data.gov.

The Bureau of Overseas Building Operations develops and manages geospatial applications that empower users across the Department to use geospatial data to support decision-making and situational awareness.

GDA Requirement	Promote the integration of geospatial data from all sources
Agency Self-Assessment	**Meets Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	   o Yes to Question 3.1
	• **Made progress toward expectations =**
	   o Partial to Question 3.1
	• **Fails to meet expectations =**
	   o No to Question 3.1

Table 3. GDA USC 43 Sec 2808(a)(3) Promote Data Integration Requirement and Self-Assessment Criteria.

3.1 Has your agency taken action to promote integration of data from multiple sources?

- Yes. The agency has taken appropriate action to promote data integration.

3.1.a If yes or partial to Question 3.1, in what ways does your agency promote data integration from multiple sources? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Hosts a data sharing infrastructure where partners and/or data users can share and discover data.
- Develops a data integration toolkit or APIs to promote integration of agency data in external applications.
- Develops data integration processes to promote integration of non-agency data into applications.
- Provides data in openly standardized readable formats or as downloadable file packages.
- Develops data sharing agreements or Memoranda Of Agreement (MOA) with public and private partners for ingest or sharing of data.

3.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(3), "promote the integration of geospatial data from all sources." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

GeoState is the Department's enterprise Geographic Information System portal, accessible internally and accredited at the Sensitive But Unclassified (SBU) level. GeoState is a centralized repository of the Department's geospatial data and provides mapping, visualization, analytics, and geospatial data management tools.

In 2021, GeoState has grown to over 1,000 users, with 2,200 items created among 58 collaborative groups. Technical working groups continue to work together to identify Department resources, domains, platforms, and servers to efficiently enable map and data sharing both internally and externally.

In November, the M/SS Center for Analytics (CfA) launched Data.State, a State Department enterprise-

wide data and analytic hub. The hub hosts analytical tools developed at State, leverages ready-to-use data sets, provides data training (i.e., Tableau, R), and project development assistance. In 2021, Data.State inventoried and cataloged 127 datasets used to create eighteen dashboards from the Department's community.

GDA Requirement	Ensure that data information products and other records created in geospatial data and activities are included on agency record schedules that have been approved by the National Archives and Records Administration
Agency Self-Assessment	**Meets Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	  ○ Yes to Questions 4.1 and 4.2
	• **Made progress toward expectations =**
	  ○ Yes or Partial to Questions 4.1 and 4.2 **or**
	  ○ No to either 4.1 or 4.2
	• **Fails to meet expectations =**
	  ○ No to Questions 4.1 and 4.2

Table 4. GDA USC 43 Sec 2808(a)(4) Ensure Records Retention Schedule for Geospatial Data Requirement and Self-Assessment Criteria.

4.1 To ensure approved National Archives and Records Administration (NARA) schedules are in place, does the appraisal process for your agency to determine which data is archived include geospatial data?

- Yes. The agency program's archiving appraisal process is inclusive of data information products and other records created in geospatial data and activities.

4.2 Are geospatial data assets included on agency record schedules?

- Yes. Agency record schedules are inclusive of data information products and other records created in geospatial data and activities.

4.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(4), "ensure that data information products and other records created in geospatial data and activities are included on agency record schedules that have been approved by the National Archives and Records Administration." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department actively collaborates with the National Archives and Records Administration (NARA) to update and consolidate its records disposition schedules. These consolidated records disposition schedules follow the NARA flexible scheduling approach. Each record schedule covers records in multiple series and/or electronic systems that relate to the same subject matter, business function, or work process. By design, geospatial data and activities are included in these updated records schedules.

GDA Requirement	Allocate resources to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee
Agency Self-Assessment	**Made Progress Toward Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	  ○ Yes to Question 5.1
	• **Made progress toward expectations =**
	  ○ Partial to Question 5.1
	• **Fails to meet expectations =**
	  ○ No to Question 5.1

Table 5. GDA USC 43 Sec 2808(a)(5) Allocate Resources for Geospatial Data Management Responsibilities Requirement and Self-Assessment Criteria.

5.1 Are geospatial program resources (including full- or part-time federal employees or contractors) allocated to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee? (Select the most appropriate answer and provide context for your agency's response in Question 5.2.)

Clarifying text: Analyses of the requirements for the GDA are ongoing and it is anticipated that agencies will answer based on currently understood or anticipated requirements. Additional details can be provided in the 5.2 Brief Summary and in your agency's 2-page PDF in Appendix B (if provided).

• Yes

5.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(5), "allocate resources to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department of State employs both civil service and contractor employees to fulfill the responsibilities of effective geospatial data collection, production, and stewardship, and to support the activities of the committee. Other than the Bureau of Intelligence and Research providing from its budget ad hoc funding specific to GDA support, there are no dedicated GDA appropriations to the Department of State budget to support GDA activities. Individual stakeholder bureaus and offices in the Department of State fund activities related to geospatial data, but to date have done so independent from specific GDA requirements.

GDA Requirement	Use the geospatial data standards, including the standards for metadata for geospatial data, and other appropriate standards, including documenting geospatial data with the relevant metadata and making metadata available through the GeoPlatform
Agency Self-Assessment	**Meets Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	   o Yes to Questions 6.1, 6.2 and 6.3
	• **Made progress toward expectations =**
	   o Any other combination of Yes, No, and Partial to Questions 6.1, 6.2, and 6.3
	• **Fails to meet expectations =**
	   o No to Questions 6.1, 6.2, and 6.3

Table 6. GDA USC 43 Sec 2808(a)(6) Use Data Standards Requirement and Self-Assessment Criteria.

Clarifying Text:

✓ Reestablishment of an active, resourced, and sustainable standards process with supporting governance is currently under consideration by the FGDC (Committee).
✓ The FGDC has not yet established any standards under the GDA, USC 43 Sec 2806.
✓ Answers should include information about all geospatial datasets owned or managed by your agency that are, or should be, available to the public in accordance with agency statutory authorities and missions; not just National Geospatial Data Asset (NGDA) Datasets.

6.1. Are defined data standards used in collecting, processing, and/or disseminating the data being addressed? (Select all that apply - *see Appendix A for complete list of optional responses*)

• Yes. Eligible geospatial datasets use FGDC endorsed data standards under OMB A-16, 2002, or more current versions of those endorsed standards.

6.2 Does your agency maintain its metadata in an FGDC-endorsed, or ISO-compliant geospatial metadata standard format? (Select all that apply - *see Appendix A for complete list of optional responses*)

Clarifying text: Question does not include legacy datasets that are static and no longer modified or otherwise managed. Also, see the list of endorsed FGDC-endorsed standards https://www.fgdc.gov/standards/.

• Yes. Eligible non-legacy datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.

6.3 Is your agency geospatial metadata available through GeoPlatform.gov?

Clarifying Text: For the scope of the requirement, Section 758(b)(1)(A)(iv) provides for "includ[ing] download access to all open geospatial data directly or indirectly collected by covered agencies" and Section USC 43 Sec 2808(a)(6) requires that "metadata [be] available through the GeoPlatform."

- Yes. Metadata for all public datasets are available via GeoPlatform.gov.

6.4 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(6), "use the geospatial data standards, including the standards for metadata for geospatial data, and other appropriate standards, including documenting geospatial data with the relevant metadata and making metadata available through the GeoPlatform." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department uses international data standards in various attribute fields, data structures, and metadata formats. The Department uses ISO 19115/19139 standard metadata for most geospatial data, including eligible, publicly released datasets. The Large Scale International Boundaries (LSIB) dataset uses ISO 19139 structured metadata for datasets published on its external-facing data catalog (geonode.state.gov), which is subsequently federated for access on Data.gov and GeoPlatform.gov.

U.S. President's Emergency Plan for AIDS Relief (PEPFAR) Spatial Data Life Cycle is a data stream-specific complement to broader Data Governance policy that conforms to ISO and OGC standards and is monitored by the Department's Data Governance Council.

GDA Requirement	Coordinate and work in partnership with other Federal agencies, agencies of State, tribal, and local governments, institutions of higher education, and the private sector to efficiently and cost-effectively collect, integrate, maintain, disseminate, and preserve geospatial data, building upon existing non-federal geospatial data to the extent possible
Agency Self-Assessment	**Made progress toward expectations**

KEY to Self-Assessment	• **Meets expectations =**
	   ○ Yes to Questions 7.1 and Yes or Not applicable to Question 7.2
	• **Made progress toward expectations =**
	   ○ Any combination of Yes, Not applicable, Partial, or No to Questions 7.1 and 7.2
	• **Fails to meet expectations =**
	   ○ No to Questions 7.1 and 7.2

Table 7. GDA USC 43 Sec 2808(a)(7) Support Coordination and Partnerships Requirement and Self-Assessment Criteria.

7.1 Are there processes in place to ensure that, when appropriate, partners and stakeholders have visibility into agency geospatial data management activities (e.g., collection, integration, maintenance, dissemination, and preservation)? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Yes. There are processes in place, but some mission areas do not have requirements for geospatial data management partnerships.

7.1.a If yes or partial to Question 7.1, which external partners and stakeholders are involved in data management activities? (Select all that apply - *see Appendix A for complete list of optional responses*)

Clarifying text: The selection list provided was taken from the GDA, USC 43 Sec 2803(b)(C).

- Other federal agencies
- Private sector entities
- Academia
- **Other**: partners and stakeholders

7.1.b If yes or partial to Question 7.1, what processes are in place to ensure partners and stakeholders are involved? (Select all that apply - *see Appendix A for complete list of optional responses*)

Clarifying text: When answering this question think about activities such as using surveys, listening sessions, Request for Information, booths at stakeholder conferences.

- Partnership outreach activities
- Expert consultations
- Working group(s) and sub-committee(s)
- Engage with trade groups
- Feedback opportunities (e.g., contact email/phone, call center)

7.2 Does your agency build upon existing non-federal geospatial data? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Yes. Agency builds upon existing non-federal geospatial data to the extent possible.

7.2.a If yes or partial to Question 7.2, what ways do you build upon existing non-federal geospatial data? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Procurement/acquisition/grant
- Research partnership
- Cooperative data collection or crowd sourcing
- Mission assignments or Interagency Agreements
- MOAs/data sharing agreements

7.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(7), "coordinate and work in partnership with other Federal agencies, agencies of State, tribal, and local governments, institutions of higher education, and the private sector to efficiently and cost-effectively collect, integrate, maintain, disseminate, and preserve geospatial data, building upon existing non-Federal geospatial data to the extent possible." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department of State coordinates and works in partnership on many fronts. State/INR works with NGA to derive and update international boundaries constituting the LSIB, with other federal agencies on the Board on Geographic Names to disseminate US government-approved geographic names and facilitates sharing US government-licensed commercial satellite imagery to UN, NGO, and others supporting policy goals.

The World-Wide Human Geography Data Working Group, co-chaired by the SAOGI and the National Geospatial-Intelligence Agency, hosts webinars about human geography and provides data-sharing capabilities for participants around the world. INR/GGI's Cities' COVID Mitigation Mapping (C2M2) program partnered with the American Association of Geographers to build three regional geospatial hubs and 12 city-level projects to examine COVID second-order economic impacts. The Office of Management Strategy and Solutions Greening Diplomacy Initiative (GDI) works with NASA and NOAA to generate and leverage GIS data. GDI works with external partners to generate geospatial citizen science

data through the Earth Challenge application. The Office of Space Affairs partners to collect, use, and disseminate imagery and satellite-derived maps. They work in concert with NASA, NOAA, USGS, US India Civil Space Joint Working Group, European Space Agency, European Organization for the Exploitation of Meteorological Satellites, and the Copernicus Emergency Management Service (for natural disasters). The Office of Conservation and Water shares satellite data maps for forest cover with internal and external partners. The Bureau of Overseas Buildings Operation collaborates with universities and shares secure data in support of the Foreign Affairs Network (FAN.gov). The Bureau of Diplomatic Security uses commercial data to build upon bureau-specific requirements for protecting dignitaries and embassy security.

GDA Requirement	Use geospatial information to— (A) make Federal geospatial information and services more useful to the public; (B) enhance operations; (C) support decision making; and (D) enhance reporting to the public and to Congress;
Agency Self-Assessment	**Meets Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	  o Yes to 8.1, 8.2 and 8.3
	• **Made progress toward expectations =**
	  o Any combination of Yes, Partial and No to Questions 8.1, 8.2 and 8.3
	• **Fails to meet expectations =**
	  o No to 8.1, 8.2 and 8.3

Table 8. GDA USC 43 Sec 2808(a)(8) Promote Application of Geospatial Data Assets Requirement and Self-Assessment Criteria.

USC 43 Sec 2808(a)(8)(A) make Federal geospatial information and services more useful to the public;

8.1 Does your agency leverage geospatial information to make federal geospatial information and services more useful to the public?

Clarifying Text: A number of examples of leveraging geospatial information for public use include, but are not limited to:

- ✓ Making the data accessible
- ✓ Providing data in ingestible services
- ✓ Providing maps or visualizations of geospatial data - like a map of an agency's jurisdictional regions so the public can identify their region on a website
- ✓ Provided data in an online application – like the COVID-19 case tracker
- ✓ Outreach/communications for user feedback
- ✓ Making data open, standardized, or machine readable

- • Yes

USC 43 Sec 2808(a)(8)(B) enhance operations; USC 43 Sec 2808(a)(8)(C) support decision making

8.2 Does your agency leverage geospatial information to improve operations and decision-making?

- • Yes. Agency broadly leverages geospatial information in operations improvements or decision-making.

8.3 Does your agency leverage geospatial information to enhance reporting to the public or to Congress? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Yes. Agency broadly leverages geospatial information to enhance public and Congressional reporting.

8.3.a If yes or partial, for which of these audiences does your agency leverage geospatial information to enhance reporting? (Select all that apply - *see Appendix A for complete list of optional responses*)

- Public reports (e.g., fact sheets, data briefs, annual reports, other published agency reports).
- Congressional reports.
- Internal agency and leadership plans, reports and communications.

8.4 Optional Question: Would the agency like to provide up to 5 key examples and links that demonstrate how geospatial data assets are used, internally and externally, to make federal geospatial information and services more useful to the public; enhance operations; support decision making; and/or enhance reporting to the public and to Congress?

- Yes

Link	Description
Travel.state.gov	The U.S. Department of State's Bureau of Consular Affairs provides services that protect U.S. citizens and their interests abroad, ensure U.S. border security, facilitate the entry of legitimate travelers, and foster economic growth. CA manages Travel.state.gov where you can find travel advisories and alerts, passport information, and visa requirements.
Data.State.sbu	The U.S. Department of State's Office of Management Strategy and Solutions maintains the Data.State.sbu, a centralized data hub. The site provides State employees access to shared data, data analytics products, resources, and training.
https://hiu.state.gov/#home	The U.S. Department of State's Intelligence and Research Bureau's Office of the Geographer and Global Issues creates and disseminates multidisciplinary information and analysis to U.S. Government decision-makers and humanitarian partners via the website hosted by its Humanitarian Information Unit.
geonode.state.gov, data.humdata.gov, https://www.geoplatform.gov/ngda/internationalboundaries, data.gov	The Office of the Geographer and Global Issues at the U.S. Department of State produces the Large Scale International Boundaries (LSIB) dataset. The lines generalized from this dataset are the only international boundary lines approved for use on U.S. Government maps, databases, and other geographic products such as annotated imagery. They reflect U.S. Government policy, and not necessarily de facto control.
Diplomacy Strong toolkit, China Activities Prioritization product, 5G Toolkit	The Office of Management Strategy and Solutions, Center for Analytics uses geospatial elements in a majority of its analytical products, including in its Diplomacy Strong Toolkit, China Activities Prioritization Product, and its 5G Toolkit. These products combine data analysis and geospatial elements to provide insights to Department staff on critical issues of diplomacy.

Table 8.a. Example Benefits of Federal Geospatial Data Assets.

8.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(8), "use geospatial information to—

    (A) make federal geospatial information and services more useful to the public;
    (B) enhance operations;
    (C) support decision making; and
    (D) enhance reporting to the public and to Congress;"

If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department uses geospatial data to support decision-making, to manage mission workflows and logistics, to enhance operations through monitoring/tracking resources, and geographic visualization.

The Bureau of Overseas Building Operation (OBO) creates applications that aid decision-making and situational awareness for the Department. Applications used geospatial data to depict the bureau's assets, projects, and personnel data in real-time.

The Climate Security & Resilience (CS&R) Dashboard is a planning and project prioritization tool that evaluates the magnitude by which overseas OBO facilities are exposed to natural hazards risks.

The Office of Management Strategy and Solutions, Center for Analytics, Data.State.sbu platform is accessible to State employees. Users are able to share and access data, data analytics, resources, and training. Data.State.sbu enhances and supports decision-making and reporting requirements to Congress.

GeoState is the Department's Enterprise Geographic Information System portal that enables the discovery of geospatial data efforts across the Department to promote collaboration.

The Office of the US Global AIDS Coordinator (S/GAC) and the Interagency Collaborative for Program Improvement (ICPI) developed and continue to collaborate on updating GIS training resources available through PEPFAR Virtual Academy, https://learn.pepfar.net.

The Bureau of Conflict and Stabilization Operations (CSO) maintains an ArcGIS Enterprise portal and a separate database on the Global Engagement Center (GEC-IQ) platform hosting open-source data from a variety of providers. CSO Instability Monitoring and Analysis Platform (IMAP) is an interagency-accessible analytics platform that enhances and supports decision making.

The Bureau of Intelligence and Research, Office of the Geographer and Global Issues uses geospatial data to create hundreds of maps and visualizations annually to inform senior policy makers on a range of issues.

GDA Requirement	Protect personal privacy and maintain confidentiality in accordance with Federal policy and law
Agency Self-Assessment	Meets Expectations

KEY to Self-Assessment	• **Meets expectations =**
	  ○ Yes to Questions 9.1 and 9.2
	• **Made progress toward expectations =**
	  ○ Yes or Partial to Questions 9.1 **or** 9.2
	• **Fails to meet expectations =**
	  ○ No to Questions 9.1 **or** 9.2

Table 9. GDA USC 43 Sec 2808(a)(9) Protection of Privacy and Confidentiality Requirement and Self-Assessment Criteria.

9.1 Are the agency's Privacy Threshold Assessment or Privacy Impact Assessment (PTA/PIA) processes inclusive of your agency's geospatial data?

Clarifying Text: The Privacy Threshold Assessment/Analysis would be the mechanism that agencies use to determine if PII is, or is not, collected and whether a Privacy Impact Assessment needs to be done for an information system.

- Yes. The agency's PTA/PIA processes are inclusive of all agency data.

9.2 Are the IT systems and applications that maintain and support your agency's geospatial data covered by a current Authorization to Operate (ATO)?

- Yes. All agency geospatial data is housed in a system covered by a current ATO and is appropriately protected in accordance with applicable laws and regulations.

9.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(9), "protect personal privacy and maintain confidentiality in accordance with Federal policy and law." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department of State's Bureau of Information Resource Management (IRM) has rules, regulations, and guidelines related to information and digital processing. The State Department requires all those using the GeoState portal to have a DoS active directory account and to enter the GeoState portal via the State Department's OpenNet. Geospatial data users must comply with all Department and federal policies and mandates for protecting privacy and confidentiality with the Privacy Act of 1974, as amended.

GDA Requirement	Participate in determining, when applicable, whether declassified data can contribute to and become a part of the National Spatial Data Infrastructure
Agency Self-Assessment	Meets Expectations
KEY to Self-Assessment	• **Meets expectations =** ○ Yes or Not applicable to Question 10.1 • **Fails to meet expectations =** ○ No to Question 10.1

Table 10. GDA USC 43 Sec 2808(a)(10) Declassified Data Requirement and Self-Assessment Criteria.

10.1 If your agency handles declassified geospatial datasets, does it have a process to review these declassified datasets for inclusion in the NSDI?

Clarifying text: Sharing standards-based data on the Internet using standard protocols and formats makes it part of the NSDI.

- Yes. The agency has a process to review declassified datasets for inclusion in the NSDI.

10.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(10), "participate in determining, when applicable, whether declassified data can contribute to and become a part of the National Spatial Data Infrastructure." If the assessment is "fails to meet expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department of State is already, as an Agency, considering all unclassified data that are "owned or managed" by the Department.

GDA Requirement	Search all sources, including the GeoPlatform, to determine if existing Federal, State, local, or private geospatial data meets the needs of the covered agency before expending funds for geospatial data collection
Agency Self-Assessment	**Made Progress Toward Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	    o No to Question 11.1 **or**
	    o Yes to Questions 11.1 and 11.2 and all agency appropriate responses to Question 11.3
	 • **Made progress toward expectations =**
	    o Yes to Question 11.1 and Partial or No to Question 11.2 and agency appropriate responses to Question 11.3
	 • **Fails to meet expectations =**
	    o Yes to Question 11.1 and No to Question 11.2 and *No additional assessments are done* selected for Question 11.3

Table 11. GDA USC 43 Sec 2808(a)(11) Non-Duplication of Data Requirement and Self-Assessment Criteria.

11.1 Has your agency expended funds for geospatial data collection for the reporting period?

Clarifying text: "Expended funds" may include grant distribution, agency collection, or procurement of data.

• Yes

11.2 If yes to Question 11.1, and as per OMB Circular A-11 Guidance (Section 25, Page 3), has your agency searched the GeoPlatform prior to making planned geospatial data investments to determine if an existing source for that data is available and meets mission requirements?

• Partial. Agency has searched GeoPlatform prior to some geospatial data investments.

11.3 If yes to Question 11.1, has your agency searched other sources to determine if data necessary to meet requirements already exists (either within or outside the agency) before collecting or acquiring new data? (Select all that apply - *see Appendix A for complete list of optional responses*)

• Cross-agency or partner coordination
• Expert consultation
• Database search
• Agency follows a documented process or official policy
• **Other:** Internet

11.4 Optional Question: If yes to Question 11.1, would the agency like to provide up to 5 examples of cases where the agency did find existing data that met its needs or partnered on a joint data acquisition?

- No

11.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(11), "Search all sources, including the GeoPlatform, to determine if existing Federal, State, local, or private geospatial data meets the needs of the covered agency before expending funds for geospatial data collection." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department's geospatial practitioners continue to use several methods to search and discover geospatial data that fits their unique project needs.

In 2021, the Office of Management Strategy and Solutions launched Data.state.sbu, a centralized data hub. The site provides State employees access to intragency data, data analytics products, resources, and training. Externally, geospatial practitioners search reputable sites such as GeoPlatform.gov and Data.gov. But given the international mandate of the State Department, US domestic geospatial resources are of limited utility.

GDA Requirement	To the maximum extent practicable, ensure that a person receiving Federal funds for geospatial data collection provides high-quality data
Agency Self-Assessment	**Made Progress Toward Expectations**

KEY to Self-Assessment	• **Meets expectations =**
	   o No to Question 12.1 **or**
	   o Yes to Question 12.1 and **all** appropriate selections for Question 12.2
	• **Made progress toward expectations =**
	   o Yes to Question 12.1 and **some** agency appropriate selections for Question 12.2
	• **Fails to meet expectations =**
	   o Yes to Question 12.1 and *No official documented Quality Assurance/Quality Control (QA/QC) process is in place for acquisition of geospatial data* selected for Question 12.2

Table 12. GDA USC 43 Sec 2808(a)(12) Ensuring High-Quality Data Requirement and Self-Assessment Criteria.

12.1 Has your agency expended funds for geospatial data collection from non-federal sources during the reporting period?

Clarifying text: The requirement for "a person receiving Federal funds" has been interpreted to mean non-federal organizations or corporations who are, for example, contract or grant recipients.

- Yes

12.2 If yes to Question 12.1, what methods does your agency employ to ensure quality in geospatial data collected from non-federal sources? (Check all that apply and use the "other" textbox to briefly describe additional methods used to ensure quality for geospatial data acquired by procurement or grant process - *see Appendix A for complete list of optional responses*)

- Evaluate data for quality prior to any acquisition.
- Geospatial data quality standards are specified in contract documents.
- Staff data experts review and approve geospatial data deliverables.
- The agency acquires data from another federal agency that is responsible for QA/QC.

12.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(12), "to the maximum extent practicable, ensure that a person receiving Federal funds for geospatial data collection provides high-quality data." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The Department of State to the maximum extent practicable ensures persons receiving Federal funds for geospatial data collection provide high-quality data using a range of evaluation methods specific to each bureau/office.

GDA Requirement	Appoint a contact to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes used by the covered agency
Agency Self-Assessment	Meets Expectations

KEY to Self-Assessment	• **Meets expectations =**
	  o Yes to Question 13.1
	• **Fails to meet expectations =**
	  o No to Question 13.1

Table 13. GDA USC 43 Sec 2808(a)(13) Point of Contact Requirement and Self-Assessment Criteria.

13.1 Has your agency appointed a POC to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the NGDA data themes used by the covered agency?

Clarifying text: According to the GDA Definitions, USC 43 Sec 2801(12), NGDA data theme means "the NGDA core geospatial datasets including electronic records and coordinates relating to a topic or subject designated under Section 756." Also, OMB Circular A-16 may include additional guidance on covered agency responsibilities for theme coordination.

- Yes. An agency POC has been appointed.

13.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2021 in addressing USC 43 Sec 2808(a)(13), "appoint a contact to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes used by the covered agency." If the assessment is "fails to meet expectations," include the actions your agency is taking to achieve the "meets expectations" level.

The State Department Geographer, resident in the Bureau of Intelligence and Research (INR), also serves as the OMB-mandated Senior Agency Official for Geospatial Information (SAOGI). In this capacity, the SAOGI is the formal representative of the Department to the Steering Committee of the Federal Geographic Data Committee (FGDC) and is also responsible for coordinating with Lead Covered Agencies for collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes.

Appendix A: Survey Picklists

This appendix provides the full set of choices presented in the self-assessment survey for questions that have multiple response options, including those that are "select all that apply."

2.1 Does your agency ensure that all eligible geospatial data is managed so it can be readily shared and is it provided in open formats, as appropriate? (This will include agency open government and transparency guidelines.) (Select all that apply)

- Data is currently openly shared to the public.
- Data is currently shared on a limited basis with federal partners.
- Data is currently shared on a limited basis with non-federal users.
- No data is currently shared to other federal agencies or non-federal users. (Note: For some agencies, this may be an appropriate response).

2.2 Does your agency disseminate eligible geospatial data in a way that can be readily shared in open formats (for example, using machine readable formats or searchable metadata)?

- Yes, eligible geospatial data and metadata are shared in open formats.
- Eligible geospatial data are shared in open formats, but not all metadata is open format.
- Eligible geospatial metadata are shared in open formats, but not all data are open format.
- Some geospatial data, and its metadata, is shared in open formats.
- No geospatial data is shared, or geospatial data is only shared in proprietary formats.

2.3 Are maintenance processes in place to ensure other federal agencies and non-federal users have access to the most recent data in addition to data and metadata updates and corrections?

- Yes, agency policies exist to ensure all programs implement data maintenance processes.
- Some programs/datasets have maintenance processes in place.
- Maintenance processes are in development or are partially implemented.
- No maintenance processes are currently in place or in development.

3.1.a If yes or partial to Question 3.1, in what ways does your agency promote data integration from multiple sources? (Select all that apply and use the "other" textbox to briefly describe additional methods)

- Hosts a data sharing infrastructure where partners and/or data users can share and discover data.
- Develops a data integration toolkit or APIs to promote integration of agency data in external applications.
- Develops data integration processes to promote integration of non-agency data into applications.
- Provides data in openly standardized readable formats or as downloadable file packages.
- Develops data sharing agreements or Memoranda Of Agreement (MOA) with public and private partners for ingest or sharing of data.
- Other (Textbox provided)

6.1. Are defined data standards used in collecting, processing, and/or disseminating the data being addressed? (Select all that apply)

- Yes. Eligible geospatial datasets use FGDC endorsed data standards under OMB A-16, 2002, or more current versions of those endorsed standards.
- Yes. Eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- Partial. Some eligible geospatial datasets use FGDC-endorsed data standards.
- Partial. Some eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- No. Eligible agency geospatial datasets do not use FGDC-endorsed data standards or standards that comply with OMB Circular A-119.

6.2 Does your agency maintain its metadata in an FGDC-endorsed, or ISO-compliant geospatial metadata standard format? (Select all that apply)

Clarifying text: Question does not include legacy datasets that are static and no longer modified or otherwise managed. Also, see the list of endorsed FGDC-endorsed standards https://www.fgdc.gov/standards/.

- Yes. Eligible non-legacy datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have FGDC-endorsed or current ISO-compliant geospatial metadata, that needs to be reviewed or refreshed.
- No. Agency datasets do not use FGDC-endorsed or current ISO-compliant geospatial metadata standards.

7.1 Are there processes in place to ensure that, when appropriate, partners and stakeholders have visibility into agency geospatial data management activities (e.g., collection, integration, maintenance, dissemination and preservation)?

- Yes. There are processes in place for all agency mission areas.
- Yes. There are processes in place, but some mission areas do not have requirements for geospatial data management partnerships.
- Partial. There are processes in place for some agency mission areas, but not others.
- No. There are no processes in place. (Skip to question 7.3)

7.1.a If yes or partial to Question 7.1, which external partners and stakeholders are involved in data management activities? (Select all that apply and use the "other" textbox to add additional partners or stakeholders)

Clarifying text: The selection list provided was taken from the GDA, USC 43 Sec 2803(b)(C).

- Other federal agencies
- States
- Local governments
- Regional governments
- Tribal governments
- Private sector entities
- Geospatial information user industries
- Professional associations
- Scholarly associations
- Nonprofit organizations
- Academia
- Licensed geospatial data acquisition professionals
- Other (Textbox provided)

7.1.b If yes or partial to Question 7.1, what processes are in place to ensure partners and stakeholders are involved? (Select all that apply and use the "other" textbox to add additional processes)

Clarifying text: When answering this question think about activities such as using surveys, listening sessions, Request for Information, booths at stakeholder conferences.

- Market research
- Partnership outreach activities
- Expert consultations
- Advisory committee(s)
- Working group(s) and sub-committee(s)
- Steering committees
- Councils
- Engage with trade groups
- Feedback opportunities (e.g., contact email/phone, call center)
- Federal Register Notices
- Memoranda of Understanding
- Use other public comment processes
- Other (Textbox provided)

7.2 Does your agency build upon existing non-federal geospatial data?

- Yes. Agency builds upon existing non-federal geospatial data to the extent possible.
- Not applicable: no existing applicable data exists.
- Partial. Agency builds upon some existing non-federal geospatial data.
- No. Agency does not build upon existing non-federal geospatial data.

7.2.a If yes or partial to Question 7.2, what ways do you build upon existing non-federal geospatial data? (Select all that apply and use the "other" textbox to add additional ways)
- Procurement/acquisition/grant
- Research partnership
- Cooperative data collection or crowd sourcing
- Mission assignments or Interagency Agreements
- MOAs/data sharing agreements
- Other (Textbox provided)

8.3 Does your agency leverage geospatial information to enhance reporting to the public or to Congress?

- Yes. Agency broadly leverages geospatial information to enhance public and Congressional reporting.
- Not applicable: Agency does not leverage geospatial information in published reports.
- Partial. Agency leverages some geospatial information to enhance either public or Congressional reporting.
- No. Agency does not leverage geospatial information to enhance either public or Congressional reporting.

8.3.a If yes or partial, for which of these audiences does your agency leverage geospatial information to enhance reporting? (Select all that apply)

- Public reports (e.g., fact sheets, data briefs, Annual reports, other published agency reports).
- Congressional reports.
- Internal agency and leadership plans, reports and communications.
- Not applicable: agency does not leverage geospatial information in published reports.

11.3 If yes to Question 11.1, has your agency searched other sources to determine if data necessary to meet requirements already exists (either within or outside the agency) before collecting or acquiring new data? (Select all that apply and use the "other" textbox to briefly describe additional sources)

- Market research
- Cross-agency or partner coordination
- Expert consultation
- Database search
- Agency follows a documented process or official policy
- No additional assessments are done
- Other (Textbox provided)

12.2 If yes to Question 12.1, what methods does your agency employ to ensure quality in geospatial data collected from non-federal sources?

(Check all that apply and use the "other" textbox to briefly describe additional methods used to ensure quality for geospatial data acquired by procurement or grant process)

- Evaluate data for quality prior to any acquisition.
- Geospatial data quality standards are specified in contract documents.
- Independent verification and validation (IV&V).
- Staff data experts review and approve geospatial data deliverables.
- Data standards are enforced through automated processes such as database controls or script tools.
- The agency acquires data from another federal agency that is responsible for QA/QC.
- No official documented QA/QC process is in place for acquisition of geospatial data.
- Other (Textbox provided)