

NGDA Dataset Report

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

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

A-16 NGDA Theme: Water - Oceans and Coasts

Executive NGDA Theme Champion(s):

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Metadata:

Registration Status: Complete

Registered on 12/11/2014

GeoPlatform Link*: <http://www.geoplatform.gov/node/243/7754f758-595f-450e-9f40-27a8489d5013>

Data.gov Metadata Link*: <http://catalog.data.gov/harvest/object/f0953399-79d1-4a1f-ae90-5caca003da68/html>

*If the metadata has been updated and reharvested after publication of this report, the link may no longer be valid. The dataset may be searched for manually in Data.gov or GeoPlatform.gov.

NGDA Lifecycle Maturity Assessment (LMA) Report

Time Frame:

Baseline assessment responses include dataset activities from 1998 to 2015.

LMA Submission:

Status: Complete

Date: 10/7/2015

Extension Requested: No

LMA Reviewer(s):

Supervisor: Did not review

Theme Lead: Did not review

Executive Champion: Did not review

SAOGI*: Did not review

Other: Tony LaVoi

LMA Verifier:

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Attachments:

To get access to any attachments referenced in the report, email the LMA Help Desk at NGDA_LMA_help@fgdc.gov. Please use the subject "Dataset Report Attachment(s)" and indicate the associated official NGDA title.

*Senior Agency Official for Geospatial Information (SAOGI)

Lifecycle Maturity Assessment (LMA) Summary

Overall Maturity:

Managed; Predictable

General Questions: 73%

Mature; Consistent

Stage 4 - Access: 100%

Optimized; Established

Stage 1 - Define/Plan: 78%

Mature; Consistent

Stage 5 - Maintain: 57%

Managed; Predictable

Stage 2 - Inventory/Evaluate: 50%

Managed; Predictable

Stage 6 - Use/Evaluate: 55%

Managed; Predictable

Stage 3 - Obtain: 76%

Mature; Consistent

Stage 7 - Archive: 66%

Managed; Predictable

NGDA Dataset Maturity Definitions:

How To Calculate Maturity: https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf

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

General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?

Answer: Funding is planned at agency level, supporting staff assigned, but funding is not recurring, some lifecycle stages are supported.

Justification Comment:

Attachment(s): 0

Maintaining the MPA Inventory is part of the MPA Center mission, but funding is not consistent or guaranteed. The data management staff resources vary from year to year based on the overall MPA Center budget determined by the Office of National Marine Sanctuaries.

2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?

Answer: Process is published as appropriate with respect to sensitivity requirements, process is transparent, published appropriately.

Justification Comment:

Attachment(s): 0

Process for compiling, updating and maintaining the Inventory are documented as part of the metadata, as well as an internal document for orientation of new staff and MPA partners. Contributing MPA partners (who provided boundaries and classification information) are contacted annually to provide data updates, review, revisions, etc.

3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?

Answer: Processes and tools to ensure dataset continuity are defined and beginning to be implemented.

Justification Comment:

Attachment(s): 0

Development of process and tools to ensure dataset continuity are ongoing. With recent staffing changes, we are looking to improve this. There are existing internal guidance documents but a formal process has yet to be thoroughly defined and recorded.

STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?

Answer: A recurring process exists for gathering partners/ stakeholders requirements is in place and is in the beginning stages of implementation.

Justification Comment:

Attachment(s): 0

MPA partners are integral to the maintenance of the dataset. They provide data updates and to some degree offer suggestions for improving data set, including data sharing, formats and access.

5) How are partners/stakeholders involved in the requirements collection process?

Answer: A recurring process exists for gathering partners/ stakeholders requirements is in place and is in the beginning stages of implementation.

Justification Comment:

Attachment(s): 0

Partners are contacted annually as part of the data update schedule (somewhat ad hoc but becoming more formalized).

6) Is there a quality assurance process for the dataset?

Answer: Process identified, early implementation.

Justification Comment:

Attachment(s): 0

Data are reviewed and updated annually through an internal MPA staff review and an external partner review. Management of this dataset follows all scientific data management per the NOAA

Administrative Order "NAO 202-735D: Scientific Integrity." NAO 202-735D outlines how NOAA complies with Open Government and Transparency requirements for all scientific data.

7) Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?

Answer: Sensitivity, privacy, and confidentiality evaluations fully implemented, reviewed and updated on a recurring basis.

Justification Comment:

Attachment(s): 0

Data in the MPA Inventory are already publicly available in various disparate places and formats.

8) Are defined data standards used in collecting, processing, and/or rendering the data?

Answer: Standards fully implemented documented and published as appropriate.

Justification Comment:

Attachment(s): 0

Internal standards are in place and detailed workflow (scripts and models) are followed for integrating data from various contributors/sources and to ensure consistency in data processing and rendering of services.

STAGE 2 - Inventory/Evaluate

9) Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?

Answer: Process is being implemented to identify datasets promoting reuse and reduce duplication.

Justification Comment:

Attachment(s): 0

This dataset is the only one of its kind in the U.S. Working with MPA partners nationwide, it is evident that this dataset is the authoritative source for national scale MPA data.

STAGE 3 - Obtain

10) Is there a process for obtaining data in relation to this dataset?

Answer: Process is being implemented.

Justification Comment:

Attachment(s): 0

This is essentially addressed on a case-by-case basis through outreach with MPA partners. New data are added, existing data refined and updated annually based on partner feedback and modifications published in the CFR and state code.

11) Is the metadata in a FGDC endorsed geospatial metadata standard?

Answer: Metadata is available in a format endorsed by the FGDC, it fully describes the dataset and provides all the information required to make the dataset discoverable, accessible, and usable.

Justification Comment:

Attachment(s): 0

Yes, the MPA Inventory is published with detailed FGDC metadata allowing for discoverability, accessibility and usability.

12) How complete is the geographic coverage as defined in the requirements for the dataset?

Part 1 Answer: Business requirement targets are on track, milestones are being met.

Part 2 Answer: Dataset has presently attained the greatest geographic coverage as defined by the current requirements or roughly 100%.

Justification Comment:

Attachment(s): 0

Dataset includes all geographies with MPA boundary information for all known sites that meet the inclusion criteria as defined in the metadata.

STAGE 4 - Access

13) Do you have a process for providing users access to the data in an open digital machine readable format?

Answer: User access process is fully implemented, data is available, process is reviewed and updated on a recurring basis.

Justification Comment:

Attachment(s): 0

Data are served in various ways via services, downloadable GIS data, kml, and via various mapping portals and viewers.

<http://marineprotectedareas.noaa.gov/dataanalysis/mpainventory/>

STAGE 5 - Maintain

14) Is there a maintenance process for updating and storing the dataset?

Answer: Dataset maintenance process is identified and documented.

Justification Comment:

Attachment(s): 0

Maintenance schedule is annual, but somewhat ad hoc based on required data updates. Maintenance is ongoing and scripts are used to ensure a consistent update protocol is followed.

15) Is there an error correction process as part of dataset maintenance?

Answer: Error correction process established.

Justification Comment:

Attachment(s): 0

Yes, scripts developed to correct data errors. Data updated annually.

STAGE 6 - Use/Evaluate

16) Is there a process to determine if the dataset meets user needs?

Answer: Process is being developed to determine if user needs are being addressed or met.

Justification Comment:

Attachment(s): 0

Process in place, feedback from partners is considered and when applicable, addressed through data updates and maintenance schedule.

17) Is there a process to provide users information on how to access and properly use the dataset?

Answer: Process is fully implemented supporting access and proper use, process is reviewed on a recurring basis.

Justification Comment:

Attachment(s): 0

Supporting documentation is available to guide user access and application of the data. Thorough metadata is published and describes access and use in detail.

18) Are the business processes and management practices assessed to meet changing technology?

Answer: Assessment process is being developed to take advantage of changing technology.

Justification Comment:

Attachment(s): 0

Data managers constantly considering new technologies to make data more accessible, discoverable and usable. Degree to which this is realized is highly funding/resource dependent.

STAGE 7 - Archive

19) Is there an archiving process for the dataset?

Answer: Archival and/or processes are in early implementation.

Justification Comment:

Attachment(s): 0

Archival data versions are maintained internally and a process is developing to utilize the long-term value of the data.

