NGDA Dataset Report

Official NGDA Title: Coastal Change Analysis Program (C-CAP) Regional Land Cover Data and Change

Metadata Record Title: Coastal Change Analysis Program (C-CAP) Regional Land Cover Data and Change Data

A–16 NGDA Theme: Land Use - Land Cover

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Metadata:

Registration Status: Complete  
Registered on: 1/7/2015

GeoPlatform Link*: https://www.geoplatform.gov/node/243/12a7863b-ad38-459d-9862-0d27d8d0fb00


*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:
2005 to present

LMA Submission:
- **Status:** Complete
- **Date:** 10/5/2015
- **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:
- **Name:** Tony Lavoi
- **Email:** Tony.Lavoi@noaa.gov

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:
- **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 are 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.

### NGDA Dataset Maturity Definitions:

**How To Calculate Maturity:** [https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf](https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf)

<table>
<thead>
<tr>
<th>Maturity</th>
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General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?
Answer: Funding support exists but is not adequate to meet known requirements, most lifecycle stages are supported.

Justification Comment:
Annual funding is provided out of base budget provided to a NOAA National Ocean Service budget line. There is no directed appropriation for Coastal Change Analysis Program. Funding for C-CAP varies annually based on budget and other priority activities.

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:
All C-CAP data acquisition is made available in the Federal Registry; all activities are coordinated with other federal agencies involved in land cover mapping through the Multi-Resolution and Characteristics (MRLC) Consotium; metadata is created and the data is registered and available via the NOAA Catalog as well as Data.gov and the Geospatial Platform; no personally identifiable or other sensitive information are included.

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

Justification Comment:
Statement of Work, Project Implementation Plans, and standard operating procedures for data production and review have been documented. C-CAP has a documented classification scheme at http://coast.noaa.gov/digitalcoast/_/pdf/ccap_class_scheme.pdf

STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?
Answer: A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

Justification Comment:
Data formats, projections, classification scheme, resolution, date, and other data needs are defined as part of the statement of work associated with each individual task order/project.

5) How are partners/stakeholders involved in the requirements collection process?
Answer: A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

Justification Comment:
User needs are evaluated on a tri-annual cycle through Office For Coastal Management survey (included along with multiple other data and application need survey info). C-CAP also performs substantial outreach, education, and coordination activities via NOAA’s Digital Coast, Office for Coastal Management trainings, and OCM regional Geospatial coordinators.

6) Is there a quality assurance process for the dataset?
Answer: Quality assurance published as appropriate with respect sensitivity requirements.
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<td>Data development is accomplished through documented statements of work, which include quality assurance planning/documentation. Task order deliverables are reviewed for quality assurance.</td>
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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.

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<tr>
<td>There is no sensitive, private, or confidential information included as part of this data.</td>
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8) Are defined data standards used in collecting, processing, and/or rendering the data?  
**Answer:** Standards fully implemented documented and published as appropriate.

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<td>Standards are documented as part of the statement of work associated with each individual task order/project. Specific processing methods are proposed and documented as part of each task order/project work plan. An example of a past Statement of Work and the corresponding Technical Proposal (which often serves as the detailed work plan) are attached.</td>
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### 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 for determining appropriate data is being reused fully implemented, reviewed, and updated on a regular basis.

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<td>Efforts are taken to identify existing (or in-progress) internal/external data sets that may be reused or re-utilized as appropriate to inform C-CAP mapping efforts. All mapping is coordinated through the Multi-Resolution Land Characteristics (MRLC) Consortium (<a href="http://www.mrlc.gov">www.mrlc.gov</a>). C-CAP task orders are awarded through NOAA’s Coastal Geospatial Services Contract (CGSC) contract vehicle (<a href="http://coast.noaa.gov/idiq/geospatial.html">http://coast.noaa.gov/idiq/geospatial.html</a>). Part of the CGSC process is to check for existing data and coordinates with other agencies and projects (including SeaSketch - <a href="http://www.seasketch.org">www.seasketch.org</a>) to determine if there is existing data that meets criteria. Metadata for planned acquisitions is published on the GeoPlatform Market Place.</td>
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### STAGE 3 - Obtain

10) Is there a process for obtaining data in relation to this dataset?  
**Answer:** Process is fully implemented, reviewed and updated on a regular basis.

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<td>All data is obtained and processed through a coordinated effort with the Multi-Resolution Land Characteristics (MRLC) Consortium. All efforts are updated with each five year cycle of monitoring. More information on the MRLC, including all contributing federal partners can be found at <a href="http://www.mrlc.gov">www.mrlc.gov</a></td>
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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.

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<td>All metadata is available in fully FGDC endorsed formats.</td>
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12) How complete is the geographic coverage as defined in the requirements for the dataset?
Part 1 Answer: Business requirements for cyclic updates identified and a process is in place.
Part 2 Answer: Dataset presently about 75% complete per current requirement.

Justification Comment: All CONUS coastal areas as defined as part of the C-CAP mapping boundary (25% of total CONUS area) are updated on a five year cycle since 1996. Work is currently starting to perform 2015/2016 update mapping, but is not expected to be complete until 2019.

Higher resolution C-CAP data (see that separate NGDA survey) in the Pacific and Caribbean are being produced on a 5 to 10 year cycle starting in 2001 (except for Puerto Rico which only has a 2012 data set available).

Funding has not been available to map the coastal portions of Alaska.

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: Data is freely and openly available in multiple machine readable formats, including *.img, WMS, REST services, and through online tools. NOAA includes land cover and change information derived from C-CAP within our online Land Cover Atlas (http://www.coast.noaa.gov/ccapatlas).

STAGE 5 - Maintain

14) Is there a maintenance process for updating and storing the dataset?
Answer: Dataset maintenance process is fully implemented and processes are reviewed and periodically updated.

Justification Comment: Data set maintenance is included as part of each subsequent 5 year update cycle.

15) Is there an error correction process as part of dataset maintenance?
Answer: Error correction process includes user notification, process reviewed on a recurring basis.

Justification Comment: User are welcome to submit any errors found to NOAA via email. Notes on error corrections that are made to previously existing data are included within the metadata release notes of the new, revised version of that data. These files are named with appropriate date stamps. Email lists or other notification methods are not available.

STAGE 6 - Use/Evaluate

16) Is there a process to determine if the dataset meets user needs?
Answer: Process is fully implemented and repeated on a recurring basis.

Justification Comment: User needs are evaluated on a tri-annual cycle through Office For Coastal Management survey (included along with multiple other data and application need survey info). NOAA's Office for Coastal Management conducts extensive training, technical assistance, and outreach with partners to gather feedback related to needs met and unmet.

The training and technical assistance opportunities can be accomplished through a number of
avenues, but all fall within NOAA's Digital Coast (www.coast.noaa.gov/digitalcoast) efforts and can be found on either the C-CAP main pages, or various other pages within this site). The resulting report from the last OCM tri-annual survey can be found at

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:
Data access options are openly available, including web mapping services and an online atlas tool. Proper use and access is documented in the metadata. Tools and technical support are available on our website. See http://coast.noaa.gov/dataregistry/search/collection/info/ccapregional

18) Are the business processes and management practices assessed to meet changing technology?
Answer: Assessment process is fully implemented for taking advantage of changing technology, process is reviewed on a recurring basis.

Justification Comment:
New business process and changing technologies are reviewed as part of each task order / project. Changes are documented in each new Statement of Work.

STAGE 7 - Archive

19) Is there an archiving process for the dataset?
Answer: Archival and disposition processes are fully implemented.

Justification Comment:
All C-CAP data are archived with the NOAA national data archive center, and are served through NOAA's Digital Coast website (www.coast.noaa.gov/digitalcoast).