

NOAA National Ocean Service
Office of **Response** and **Restoration**

Data Sharing Agreements and Federal Data Mandates

NOAA Office of Response & Restoration
January 18, 2017

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Data is Key


- *“Situational Awareness and Common Operating Picture (SA/COP) support the Communications and Information Management component of the **National Incident Management System (NIMS)**”*
- *“Individuals and organizations at all levels of response have a responsibility to both contribute to and use reliable information as a part of incident response efforts.”*

(FEMA E0948 SA/COP Training)

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Data Sharing Plan Concept

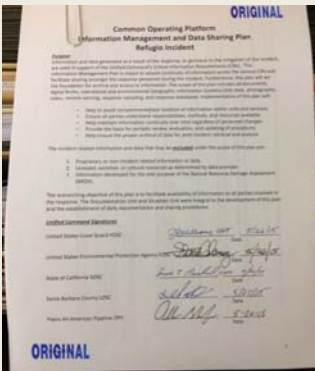
- Data is the foundation of any effective COP
- DSP documents all cooperatively collected and processed data
- Defines what, when and where data will be made available
- Cooperatively developed by RP, Feds, States & signed by Unified Command




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Data Sharing Plan

- Began as DWH Command briefing delivery target for data collectors
- Has been implemented in recent spills and practiced in many drills
- Cooperative development is key





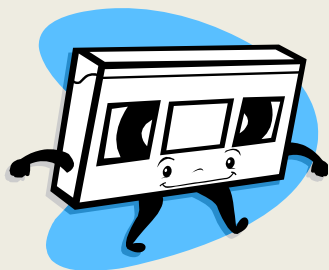
What the Data Sharing Plan Ensures

- Cooperation between all data providers
- Data partners all have access to the same data
- Standard formats & approaches: Interoperability
- Continuity of information
- Data retention during and after the response

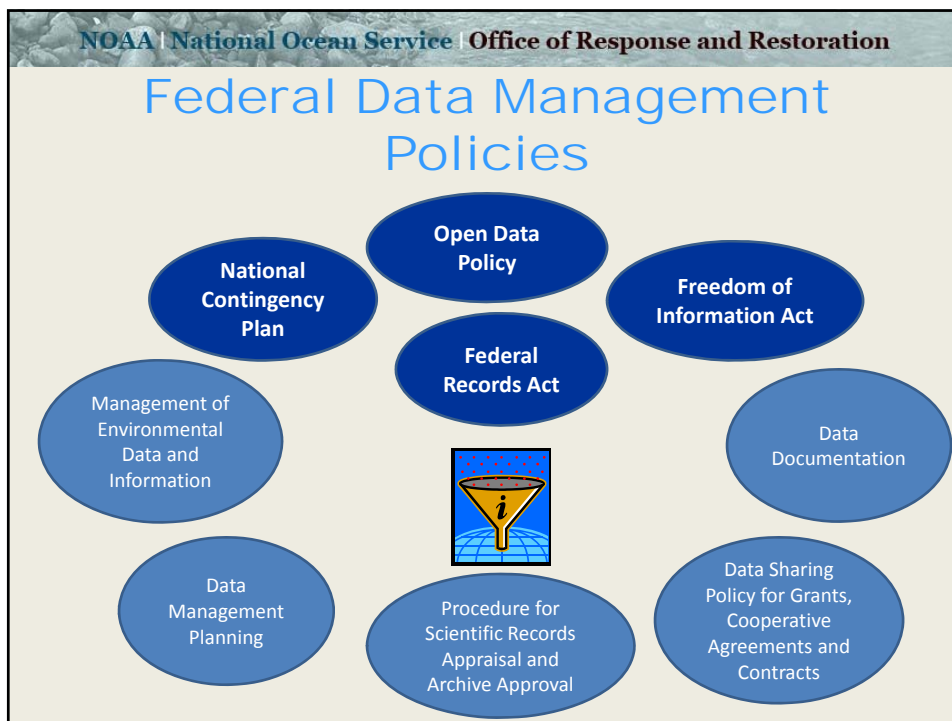


Data Sharing Plan in ICS

- Part of the ICS Documentation Plan
- Not about data ownership, ownership is not transferred, but data are shared
- Everyone gets copies of original, environmental, and operational data



*“Need to DVR the data
on a daily basis”*



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Federal Data Management Policies

- **National Contingency Plan** The National Oil and Hazardous Substances Pollution Contingency Plan, is the federal government's blueprint for responding to both oil spills and hazardous substance releases
- **Freedom of Information Act (FOIA)** Ensures the public the right to request access to records from any federal agency.
- **Federal Records Act-** The act and its related regulations define Federal records, mandate the creation and preservation of those records necessary to document Federal activities, establish Government ownership of records, and provide the exclusive legal procedures for the disposition of records

Federal Data Management Policies

- **Open Data Policy – Managing Information as an Asset:** OMB Executive Order (M-13-13)
- Memorandum requires agencies to collect or create information in a way that supports downstream information processing and dissemination activities.
- Open Data Policy Memorandum:
<http://www.whitehouse.gov/sites/default/files/omb/memoranda/2013/m-13-13.pdf>

Federal Data Management Policies

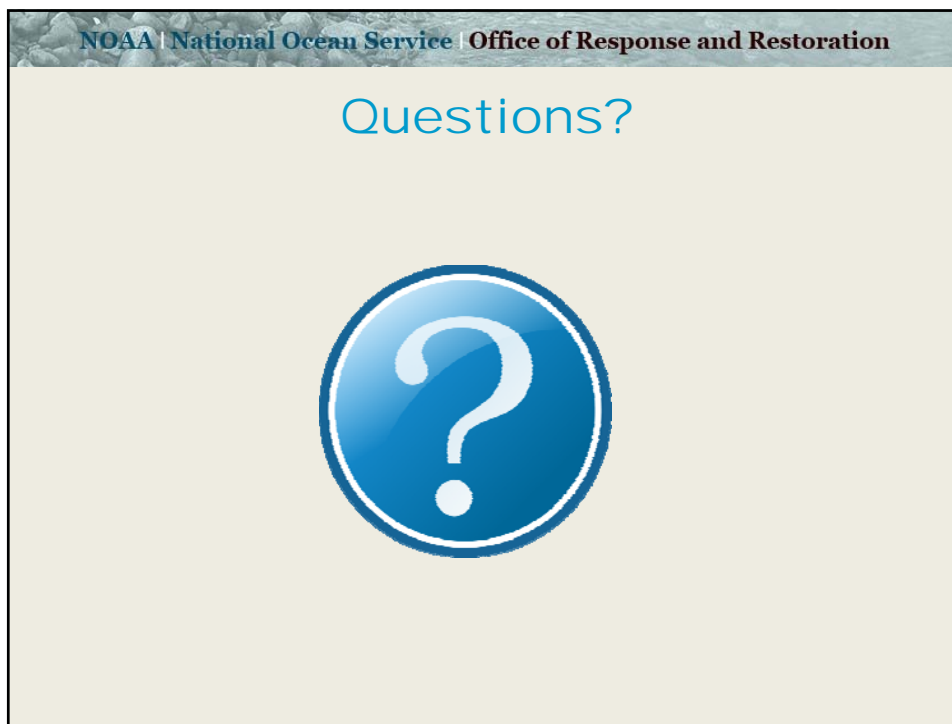
- NOAA Administrative Order (NAO) 212-15, **Management of Environmental Data and Information**
- This policy provides high-level direction that guides procedures, decisions, and actions regarding environmental data and information management throughout NOAA.

Federal Data Management Policies

- **NOAA Data Documentation Procedural Directive** - This procedural directive states that NOAA's environmental data and information must be carefully documented using international metadata standards
- **NOAA Data Management Planning Procedural Directive** -Expands upon this requirement for Data Management Plans (DMPs), direct managers of all data production projects and systems

Federal Data Management Policies

- **NOAA Data Sharing Policy for Grants, Cooperative Agreements and Contracts Procedural**- Designed to ensure that environmental data funded extramurally by NOAA are made publicly accessible in a timely fashion (typically within two years of collection), and that final manuscripts of peer-reviewed research papers are deposited with the Central Library.
- **NOAA Procedure for Scientific Records Appraisal and Archive Approval** This document defines the procedure by which NOAA decides what scientific records (environmental and geospatial data) are preserved in a NOAA archive.



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Common Operating Platform Data Management and Sharing Plan Sector NOLA PREP Drill 2015

Purpose:
Information and data generated as a result of the response, mitigation efforts, or other similar activities (the "Response") related to the Sector NOLA Prep Drill Oil Spill (the "Incident"), are used in support of the Unified Command's Critical Information Requirements (CIRs). This Data Management and Sharing Plan (the "Plan") is meant to ensure continuity of information across the various CIRs and facilitate sharing amongst the response personnel during the incident. Furthermore, this plan will set the foundation for access to information and archive of data.

Implementation of this plan will:

- Reduce compartmentalized isolation of information within ICS units and sections
- Ensure all parties understand responsibilities, methods, and resources available
- Maintain information continuity over time regardless of personnel changes
- Provide the basis for periodic review, evaluation, and updating of procedures
- Ensure the proper archival of data for post-incident retrieval and analysis

What is covered under this Plan:

This plan includes all incident related documents, Geographic Information Systems (GIS) data, photography, video, remote sensing, response sampling, response databases, and corresponding metadata as described in accompanying appendices.

The incident related information and data that may be **excluded** under the scope of this plan are:

1. Proprietary, confidential, privileged or non-incident related information or data.
2. Licensed, sensitive, or cultural resources as determined by data provider.
3. Information developed for the sole purpose of the Natural Resource Damage Assessment (NRDA).

The overarching objective of this plan is to facilitate availability of information to all parties involved in the response. The Documentation Unit and Situation Unit were integral to the development of this plan and the establishment of daily documentation and sharing procedures.

Unified Command Signatures

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Common Operating Platform

COP Data Management and Sharing Plan: Sector NOLA 2015 THIS IS A DRILL

APPENDIX: Data, Sharing and Archive Process

This appendix describes the different types of incident and related data being created and covered under the Plan to meet Critical Information Requirements (CIRs) of the Unified Command (UC). It provides specific details about file types, processing responsibilities, delivery schedule and use restrictions. It also describes who is managing the data, how and when the data will be shared and disseminated to other response staff, if there are any sharing or use restrictions, and how sharing would be managed for the public if appropriate.*

This outline describes the functional sections of this appendix. Each Section provides a description and table to capture the pertinent information being created and the operational cycle that each dataset will support for addressing UC CIRs.

Section I – DATA MANAGEMENT AND SHARING PROCESS

- GIS Data
- Photography & Video
- Remote Sensing
- Response Sampling
- Response Databases

Section II – DATA PRESERVATION AND PROTECTION

- Short-Term Storage
- Long-Term Storage
- Transfer to Long-Term Storage

Section III – COMMON OPERATING PICTURE

Section IV – DATA INFRASTRUCTURE AND HARDWARE

Section V – METADATA AND FILE NAMING

Section VI – REFERENCES

* For any data to be released to the public, it must be approved and released by Unified Command.

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Common Operating Platform

Dataset	Data Type & Format	Description	Temporal Coverage	Delivery Schedule	Use Restrictions	Method of Field Collection	Field Collector & P.O.C.	Data Processor & P.O.C	Short-Term Repository
Trajectories	Shapefiles	Fate and effect modeling of oil for operational planning	Daily	Daily	response	Models	NOAA	NOAA	Shell COP, ERMA, ResponseLink, sFTP
NOAA Overflights	Shapefiles	Overflight observations and tracking from the NOAA observer flights	Daily	Daily	response	Field Observations	NOAA	NOAA	Shell COP, ERMA, ResponseLink, sFTP
Shoreline Cleanup Assessment Techniques (SCAT)	Shapefiles	Shoreline Cleanup Assessment oiling observations	Daily	Daily	response	Field Observations	Planning Section	NOAA	Shell COP, SCAT database, sFTP
Culturally Sensitive Areas	Shapefile	Areas determined by LA SHPO to have archeological or cultural significance	Static	As Needed	response	N/A	LA SHPO	LA SHPO	Shell COP, sFTP,
Wildlife Observations	Shapefiles, spreadsheets	Wildlife observations as reported by Operations	Adhoc	Daily	response	Field Observations	Ops Section	Geomatics, Situation Unit	Shell COP, ERMA, sFTP
Vessel Locations	REST feed	Operational vessel locations based off of AIS feeds.	Continuous	Daily	response	AIS	Planning Section	Geomatics, Situation Unit	Shell COP
Area of Operations	REST feed			Daily	response	REST feed	Planning	Geomatics	Shell COP
Overflight Observations	REST feed			Daily	response	REST feed	Planning	Geomatics	Shell COP
GRP Status	REST feed			Daily	response	REST feed	Planning	Geomatics	Shell COP
Boom Status	REST feed			Daily	response	REST feed	Planning	Geomatics	Shell COP
Shell Base data	REST feed			Daily	response	REST feed	Planning	Geomatics	Shell COP
Decon Locations	REST feed			Daily	response	REST feed	Planning	Geomatics	Shell COP
Flotilla Locations	REST feed			Daily	response	REST feed	Planning	Geomatics	Shell COP

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