BCO-DMO

Biological and Chemical Oceanography Data Management Office
MS #36 • Woods Hole Oceanographic Institution • Woods Hole, MA 02543
• http://www.bco-dmo.org •

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http://bco-dmo.org/contact/

Preparing the Two Page Plan for NSF OCE Biology or Chemistry or OPP ANT Organisms & Ecosystems Program Research Proposals

Proposals submitted to NSF and due on or after January 18, 2011, must include a supplementary document of no more than two pages labeled "Data Management Plan" (hereafter referred to as 'the two page plan'). This supplementary document (a supplement to the 15 page proposal) should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results. See the full description in the Grant Proposal Guide (GPG) Chapter II.C.2.j for full policy implementation (http://www.nsf.gov/pubs/policydocs/pappguide/nsf11001/gpg_2.jsp#dmp).

This document includes a suggested outline for the two page data management plan for an NSF OCE proposal involving a research cruise. These recommendations could be modified for projects that do not involve a cruise, e.g. model or data synthesis projects. The two page plan should at least provide answers to the following questions:

1. Data Policy Compliance

What are the plans for compliance with any published data policies, e.g. the 2004 NSF Division of Ocean Sciences Data and Sample Policy online at:
http://www.nsf.gov/pubs/2004/nsf04004/nsf04004.pdf
or in some cases the data policy of a large coordinated research program (e.g. GEOTRACES, IMBER). Consider the types of data, synthesis products or model results expected from the proposed research.

2. Pre-cruise Planning

How will pre-cruise planning be coordinated?

e.g. email, teleconferencing, workshop, etc.

* To agree on what data need to be collected

* To coordinate sampling strategy if multiple sampling programs are planned

Do you plan to partner with the BCO-DMO for data management?

If yes, have you contacted BCO-DMO?

Prepare a list of sampling instrumentation you plan to deploy. Explain what measurements and observations will be generated and the name of the investigator who is responsible for those measurements. This information can be included as Table 1 referred to in the example text below.

3. During the Cruise

Describe how any recommendations in the BCO-DMO Best Practices Guide will be implemented for this project.

* Will you prepare a cruise report?

* How will you document sampling and analytical protocols?

* Will you be maintaining a sampling event log and data inventory?

4. Post-cruise

Will the shipboard underway data be available from http://www.rvdata.us (the central data repository for data collected aboard UNOLS vessels)?

What post-cruise processing will be done? Describe QA/QC procedures and include references to published sampling and analytical protocols.

When and where will the processed data be made available? (E.g. an open access, online database or a thematic repository?)

What are the plans for permanent archive of the data?

Note that for proposals to NSF OCE Biological or Chemical Oceanography or OPP ANT Organisms & Ecosystems Program, that include field work aboard a UNOLS vessel, you could include a section that states something similar to the following, with Table 1 being the list of instruments, measurements, and PI names and with details added to reflect the research focus of your proposed research.

Data Management Plan

A cruise is planned for year 1 during which ocean biogeochemistry data will be collected (see Table 1). Pre-cruise planning will be done via teleconferencing and a PI planning workshop. Detailed plans for station locations, instrument deployment, water sampling strategy and water sample allocation will be written up as a science implementation plan for the cruise. The actual sampling events will be recorded on paper logs (scanned into PDF documents) and in a digital event log.

Soon after the completion of the cruise, the original underway data will be contributed by the vessel operator to the UNOLS central data repository at http://www.rvdata.us/catalog/ managed by the Rolling Deck to Repository (R2R) project. Also, R2R will ensure that the original underway measurements will be archived permanently at NODC and/or NGDC as appropriate for the data type. The measurements made by the science party will be managed by the Biological and Chemical Oceanography Data Management Office (BCO-DMO) and the data sets will be available online from the BCO-DMO data system (http://bco-dmo.org/data/). BCO-DMO will also archive all the data they manage at the appropriate national archive facility, such as NODC and NGDC. [If you have contributed data to BCO-DMO in the past, you can search for your name in our people table, and generate a link to all data previously contributed by you. Search for your name at http://osprey.bcodmo.org/people.cfm]

Resource References:

Biological and Chemical Oceanography Data Management Office (BCO-DMO)

http://bco-dmo.org for Data, Resources and Contact information

The Biological and Chemical Oceanography Data Management Office (BCO-DMO) was created in late 2006 to serve PIs funded by the NSF Geosciences Directorate (GEO) Division of Ocean Sciences (OCE) Biological and Chemical Oceanography Sections and (with augmented funding in 2010) Office of Polar Programs (OPP) Antarctic Sciences (ANT). BCO-DMO manages and serves oceanographic biogeochemical, ecological, and companion physical data and information developed in the course of scientific research and contributed by the originating investigators. The BCO-DMO data system facilitates data stewardship, dissemination, and storage on short and intermediate time-frames.

The data: http://bcodmo.org/data

Data Management Guide: http://bcodmo.org/files/bcodmo/BCO-DMO_Guidelines.pdf

Rolling Deck to Repository (R2R) http://www.rvdata.us

The R2R Portal is a central shore-side data gateway through which underway data from oceanographic expeditions will be routinely cataloged and securely transmitted to the national long-term digital data archives including the National Geophysical Data Center (NGDC) and National Oceanographic Data Center (NODC). The project is supported by the NSF Oceanographic Instrumentation and Technical Services (OITS) Program.

The 2004 NSF OCE Data and Sample Policy:

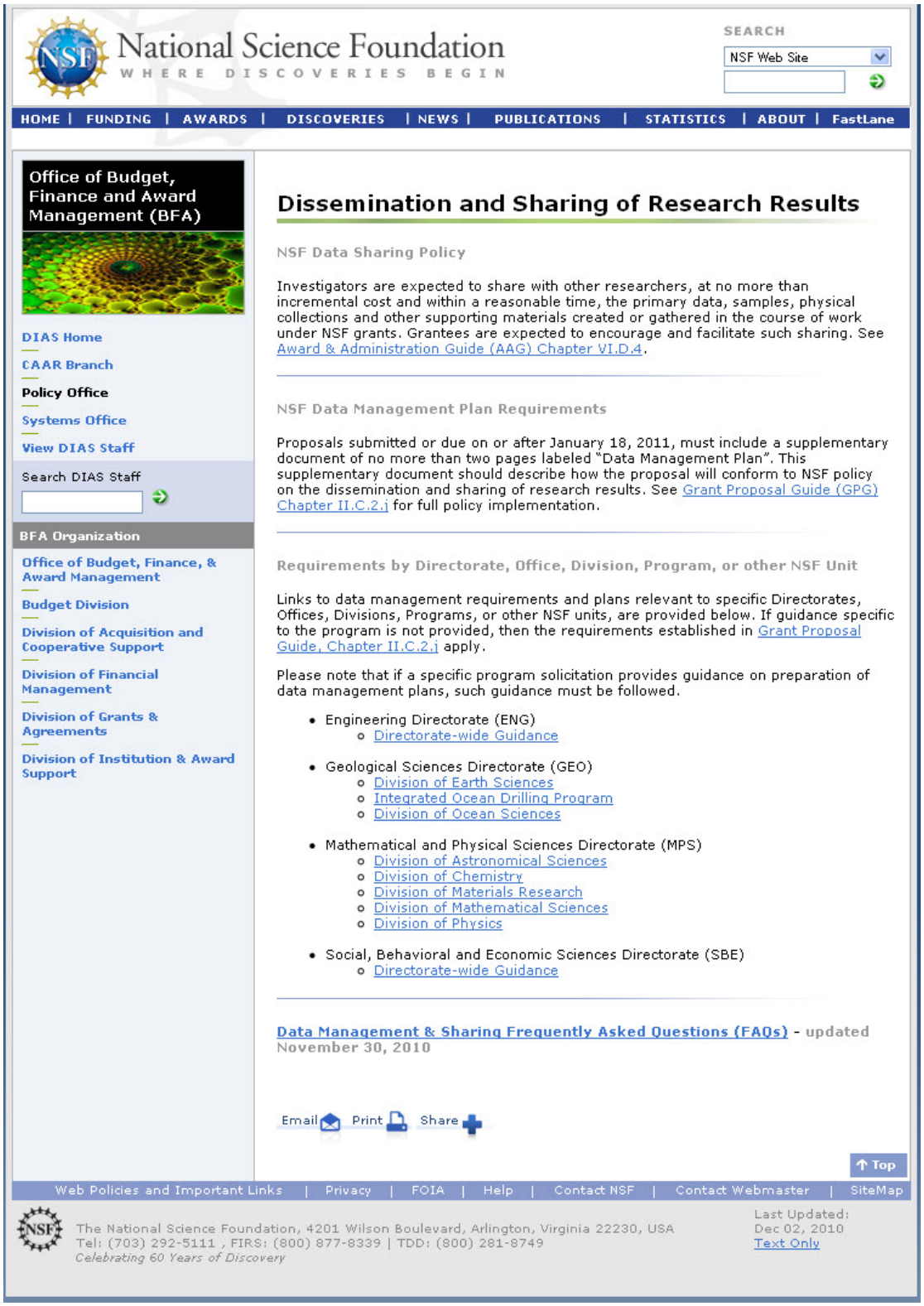
http://www.nsf.gov/pubs/2004/nsf04004/nsf04004.pdf

Grant Proposal Guide (GPG) Chapter II.C.2.j

http://www.nsf.gov/pubs/policydocs/pappguide/nsf11001/gpg_2.jsp#dmp

NSF Policy on the Dissemination and Sharing of Research Results:

http://www.nsf.gov/bfa/dias/policy/dmp.jsp



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Dissemination and Sharing of Research Results

NSF Data Sharing Policy

Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing. See Award & Administration Guide (AAG) Chapter VI.D.4.

NSF Data Management Plan Requirements

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Requirements by Directorate, Office, Division, Program, or other NSF Unit

Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units, are provided below. If guidance specific to the program is not provided, then the requirements established in Grant Proposal Guide, Chapter II.C.2.j apply.

Please note that if a specific program solicitation provides guidance on preparation of data management plans, such guidance must be followed.

- Engineering Directorate (ENG)
  - Directorate-wide Guidance
- Geological Sciences Directorate (GEO)
  - Division of Earth Sciences
  - Integrated Ocean Drilling Program
  - Division of Ocean Sciences
- Mathematical and Physical Sciences Directorate (MPS)
  - Division of Astronomical Sciences
  - Division of Chemistry
  - Division of Materials Research
  - Division of Mathematical Sciences
  - Division of Physics
- Social, Behavioral and Economic Sciences Directorate (SBE)
  - Directorate-wide Guidance

Data Management & Sharing Frequently Asked Questions (FAQs) - updated November 30, 2010

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