



<https://arcticdata.io>

 @arcticdatactr

NSF Award #1546024



DataONE

Writing Good Data Management Plans: Theory & Practice

Amber E Budden



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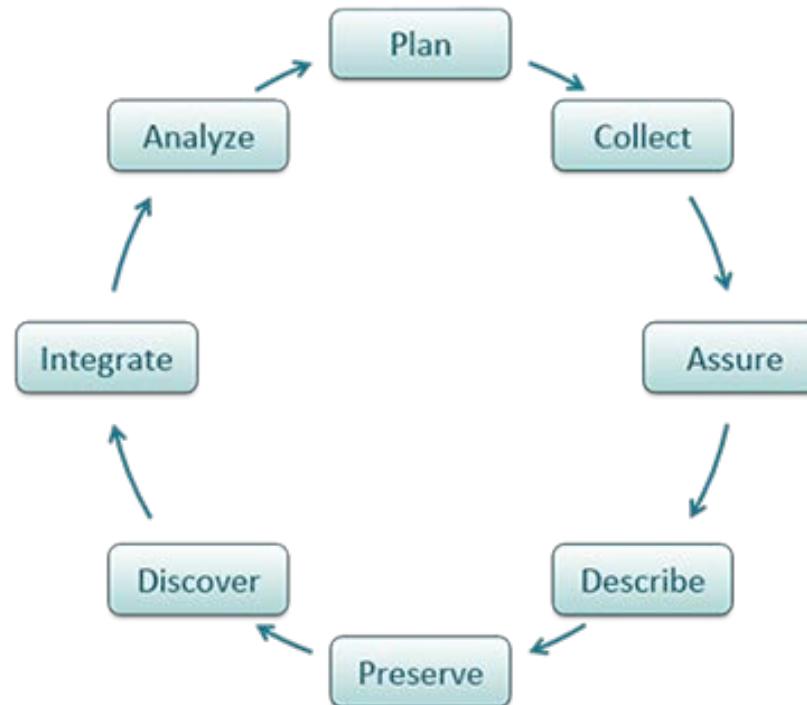


0000-0003-0200-0787

Arctic Data Center Training
August 13-17, 2018

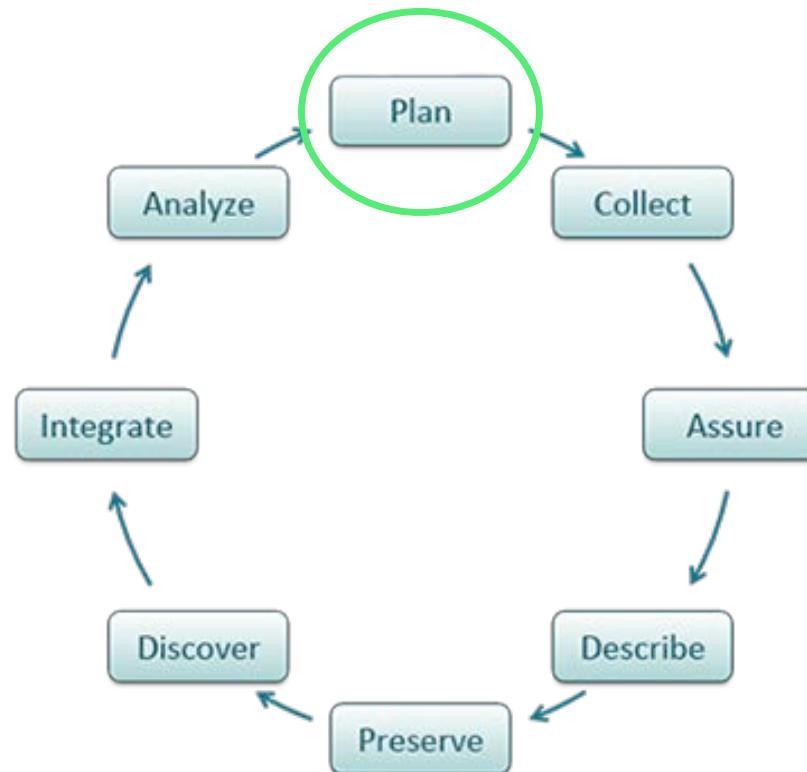


The Data Life Cycle





The Data Life Cycle





Why Plan?



Efficiency



Why Plan?



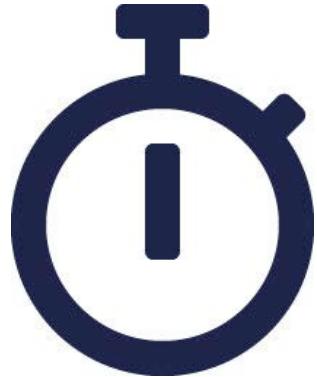
Efficiency



Engagement



Why Plan?



Efficiency



Engagement



Stay Organized



Why Plan?



Efficiency



Engagement



Funder Requirement



Stay Organized



Why Plan?



Efficiency



Engagement



Stay Organized



Funder Requirement



Share data



What's in a Data Management Plan?

- Study design
- Data (including format)
- Metadata
- Policies for access, sharing & reuse
- Long-term storage & data management
- Budget



Data Management Planning

1. Engage everyone



Data Management Planning

1. Engage everyone
2. Plan from the start



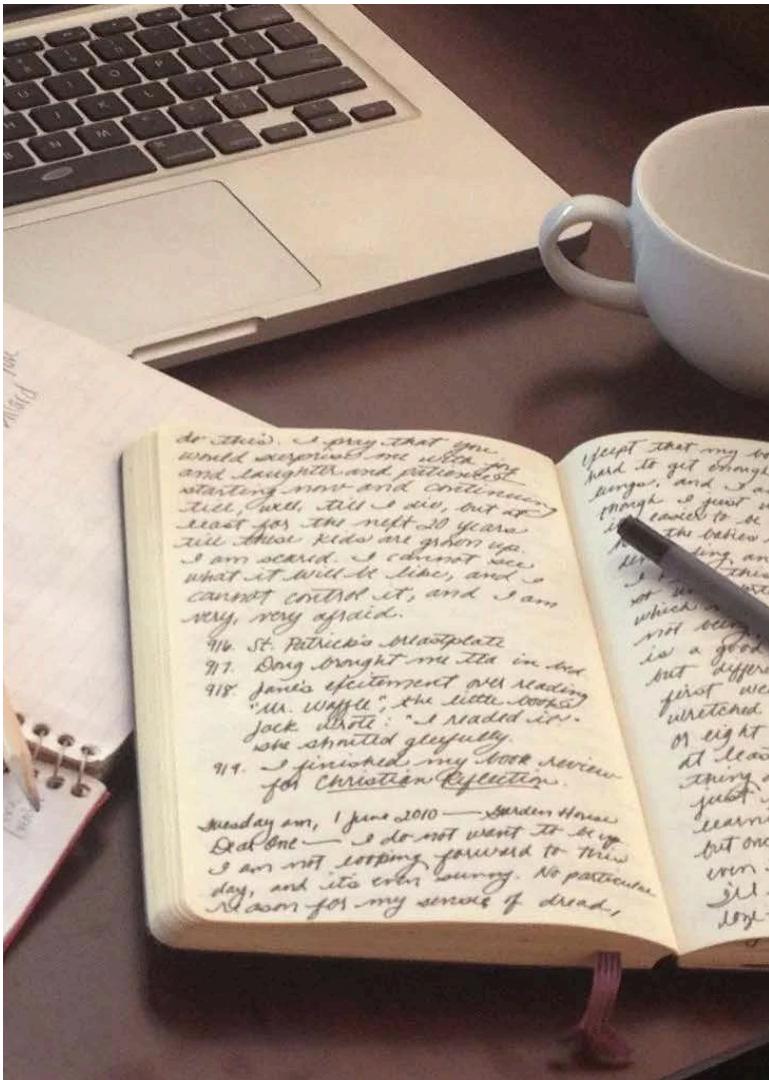
Data Management Planning

1. Engage everyone
2. Plan from the start
3. Follow good advice
 - DataONE
 - Institutional Libraries
 - Data Repositories



Data Management Planning

1. Engage everyone
2. Plan from the start
3. Follow good advice
 - DataONE
 - Institutional Libraries
 - Data Repositories
4. Use good tools
 - DMPTool
 - DMPOnline



Data Management Planning

1. Engage everyone
2. Plan from the start
3. Follow good advice
 - DataONE
 - Institutional Libraries
 - Data Repositories
4. Use good tools
 - DMPTool
 - DMPOnline
5. Review and revise

OPEN ACCESS

PERSPECTIVE

Ten Simple Rules for Creating a Good Data Management Plan

William K. Michener 

Published: October 22, 2015 • <https://doi.org/10.1371/journal.pcbi.1004525>

| Article | Authors | Metrics | Comments | Related Content |
|---------|---------|---------|----------|-----------------|
| ▼ | | | | |

Introduction

Rule 1: Determine the Research Sponsor Requirements

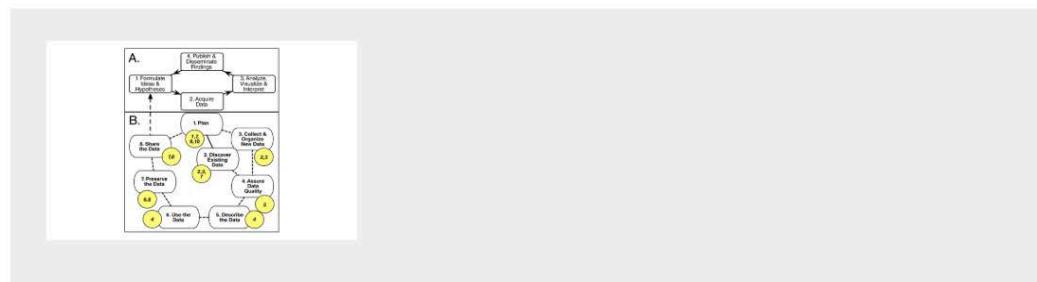
Rule 2: Identify the Data to Be Collected

Rule 3: Define How the Data Will Be Organized

Rule 4: Explain How the Data Will Be Documented

Rule 5: Describe How Data Quality Will Be Assured

Figures



Citation: Michener WK (2015) Ten Simple Rules for Creating a Good Data

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Included in the Following Collections

Ten Simple Rules
Open Data

ADVERTISEMENT



Subject Areas



10 Simple Rules for Writing a Good DMP

1. Determine the research sponsor requirements
2. Identify the data to be collected
3. Define how the data will be organized
4. Explain how the data will be documented
5. Describe how quality data will be assured
6. Present a sound storage & preservation strategy
7. Define the project's data policies
8. Describe how the data will be disseminated
9. Assign roles & responsibilities
10. Prepare a realistic budget



Determine the research sponsor requirements





Identify the data to be collected: types; sources; volume; and data and file formats



Image credits: World Meteorological Organization on Flickr

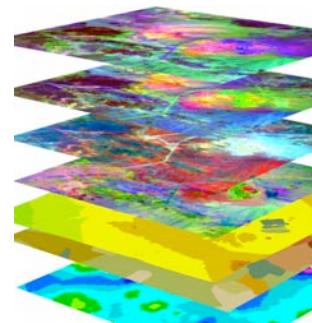


Define how the data will be organized



ORACLE®

| A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|--------------------|-----------|-----------|-----------|---------------|----------|---------------------------|------|--------|-------------|--------|---|---|---|
| Site | Date | Plot | Species | Weight | Adult | Rodent Trapping 3/15/2010 | | | | | | | |
| 2 Deep Well | 2/13/2010 | 1 DIP0 | 12.1 j | | | Site | Plot | Adult | RodentSp | Weight | | | |
| 3 Deep Well | Feb-10 | 2 Pero | 13.22 j | | | DW | 1 y | Pero | | 12 | | | |
| 4 noSalado | 2/13/2010 | ta pero | 16 N | | | RS | 2 j | PERO | escaped <15 | | | | |
| 5 noSalado | * | 1* | CleGap | 18.92 yd away | | RS | 3 n | Clegap | | 31 | | | |
| | | | Mean1 | 15.06 | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 Rodent Trapping | | MIK & ALN | 10-Apr-10 | | | | | | | | | | |
| 13 Site | Plot | Adult | Species | grams | Comments | | | | | | | | |
| 14 deep well | 1 y | wondrat | | 13 | | | | | | | | | |
| 15 nosalado | 2 y | PERO | | 24.5 | | | | | | | | | |
| 16 nosalado | 3 y | Clegap | | 91 | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |





Explain how the data will be documented

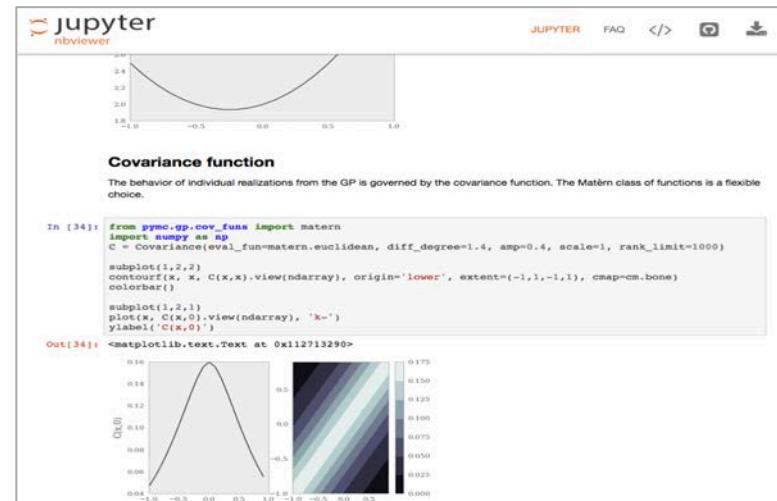
- Dublin Core, ISO 19115, EML
 - Morpho, metavist, readme.txt
 - Electronic notebooks

The screenshot shows a Java application window titled "Data & Metadata (EML)". The window displays an XML document representing an Environmental Monitoring Language (EML) dataset. The XML structure includes various elements such as dataset, title, deliveryPoint, address, and contact. The content describes a dataset titled "Marine Science Institute" located at "1000-1000" with a postal code of "98024". It also lists a contact person named "Joe" with a phone number "(100) 286-1984" and an email address "joe@msi.uscd.edu". The XML is color-coded for readability, with tags in blue and values in black.

```

<dataset>
  <title>Marine Science Institute</title>
  <deliveryPoint>
    <address>
      <streetAddress>1000-1000</streetAddress>
      <city>San Diego</city>
      <stateProvince>CA</stateProvince>
      <postalCode>98024</postalCode>
    </address>
    <contact>
      <individualName>Joe</individualName>
      <phone>(100) 286-1984</phone>
      <electronicMailAddress>joe@msi.uscd.edu</electronicMailAddress>
    </contact>
  </deliveryPoint>
  <datasetLevelMetadata>
    <datasetIdentifier>MSI</datasetIdentifier>
    <datasetVersion>1.0</datasetVersion>
    <datasetTitle>Marine Science Institute</datasetTitle>
    <datasetDescription>A dataset describing marine science research at the Marine Science Institute. It includes information about the location, contact person, and dataset identifier.</datasetDescription>
  </datasetLevelMetadata>
</dataset>

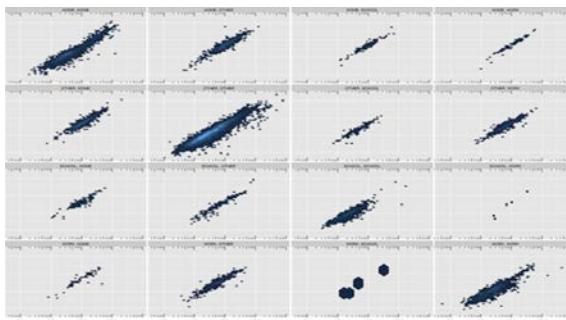
```





Describe how data quality will be assured

- Training activities, instrument calibration and verification tests, double-blind data entry, and statistical and visualization approaches to error detection





Present a sound data storage and preservation strategy

- How long will the data be accessible?
- How will data be stored and protected during the project?
- How will data be preserved and made available for future use?



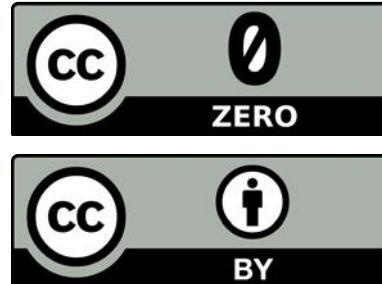
re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

GitHub



Define the project's data policies

- Licensing and data sharing arrangements
- Human subject and other sensitive data





Describe how the data will be disseminated

- More active, robust and preferred approaches include: (1) publishing the data in an open repository or archive; (2) submitting the data as appendices or supplements to journal articles; and (3) publishing the data, metadata, and relevant code as a “data paper”.



SCIENTIFIC DATA



GitHub



Assign roles and responsibilities

- Roles may include data collection, data entry, QA/QC, metadata creation and management, backup, data preparation and submission to an archive, and systems administration.





Prepare a realistic budget

- Review your plan and make sure that there are lines in the budget to support the people that manage the data as well as pay for the requisite hardware, software





Research Funder Requirements

- NSF
NSF 14-1, Grantee Standards, Section j
https://www.nsf.gov/pubs/policydocs/pappguide/nsf14001/gpg_2.jsp#IIC2j
- NSF GEO
Directorate for Geosciences--Data Policies
<https://www.nsf.gov/geo/geo-data-policies/>
- NSF Polar Programs
NSF 16-055 Dear Colleague Letter
<https://www.nsf.gov/pubs/2016/nsf16055/nsf16055.jsp>

Check your funder for specific requirements



NSF Division of Polar Programs

- NSF requires submission to the Arctic Data Center within 2 years
AON program requires submission within 6 months
- Need to document your data well enough for reuse
- There are exceptions for sensitive data
Social sciences, endangered species



NSF DMP Requirements: 5 Sections

- Products of research

Types of data, samples, physical collections, software, curriculum materials, other materials produced during project



NSF DMP Requirements: 5 Sections

- Products of research

Types of data, samples, physical collections, software, curriculum materials, other materials produced during project

- Data formats and standards

Standards to be used for data and metadata format and content (for initial data collection, as well as subsequent storage and processing)



NSF DMP Requirements: 5 Sections

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Types of data, samples, physical collections, software, curriculum materials, other materials produced during project

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Including re-distribution and the production of derivatives



NSF DMP Requirements: 5 Sections

- **Products of research**

Types of data, samples, physical collections, software, curriculum materials, other materials produced during project

- **Data formats and standards**

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- **Policies for access and sharing**

Provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements

- **Policies and provisions for re-use**

Including re-distribution and the production of derivatives

- **Archiving of data**

Plans for archiving data, samples, research products and for preservation of access



From <https://www.flickr.com/photos/100000000000000000/>

Current DMP Tools

The screenshot shows the DMPonline homepage with an orange header. It features a 'Welcome' section with statistics: 17,622 Users, 203 Organisations, 23,083 Plans, and 89 Countries. Below this, there's a sign-in form with fields for Email and Password, and links for 'Forgot password?' and 'Create account'. A note says 'Join the growing international community that have adopted DMPonline.' and provides a link to download funder templates.

The screenshot shows the DMPTool homepage with a blue header. It features a 'Welcome' section with a 'Get started' button. Below this is a large image of a complex electronic circuit board. At the bottom, there are two sections: 'DMPTool by the Numbers' and 'Top 5 Templates'. The numbers section includes 30,846 Users, 27,389 Plans, and 236 Participating Institutions. The template section lists Digital Curation Centre, NSF-BIO: Biological Sciences, NSF-SBE: Social, Behavioral, Economic Sciences, USDA-NIFA: National Institute of Food and Agriculture, and NIH-GEN: Generic.



DMPonline: dmponline.dcc.ac.uk

The screenshot shows the DMPonline homepage. At the top, there's a navigation bar with links for Home, Public DMPs, Funder requirements, and Help. On the right, there's a Language dropdown and a sign-in box. The main content area has a yellow header "Welcome". Below it, a paragraph explains what DMPonline is and who provides it. It then encourages users to join the community. Four statistics are displayed with icons: 17,622 Users (person icon), 203 Organisations (building icon), 23,083 Plans (document icon), and 89 Countries (globe icon). A note at the bottom mentions funder mandates and links to templates. To the right, a sign-in form is shown with fields for Email and Password, a "Forgot password?" link, a "Remember email" checkbox, and a "Sign in" button. Below that is a "Sign in with institutional credentials (UK only)" link.

Welcome

DMPonline helps you to create, review, and share data management plans that meet institutional and funder requirements. It is provided by the Digital Curation Centre (DCC).

Join the growing international community that have adopted DMPonline:

17,622 Users

203 Organisations

23,083 Plans

89 Countries

Some funders mandate the use of DMPonline, while others point to it as a useful option. You can [download funder templates](#) without logging in, but the tool provides tailored guidance and example answers from the DCC and many research organisations. Why not sign up for an account and try it out?

Sign in **Create account**

* Email
[Email input field]

* Password
[Password input field]

[Forgot password?](#)

Remember email

Sign in

- OR -

[Sign in with institutional credentials \(UK only\)](#)

Step-by-step wizard for generating DMP

Create | edit | re-use | share | save | generate

Open to community



Build your Data Management Plan

Welcome

Create data management plans that meet institutional and funder requirements.

[Get started](#)



DMPTool

Build your Data Management Plan

dmptool.org

DMPTool by the Numbers



30,846
Users



27,389
Plans

[More](#)



236
Participating Institutions

[More](#)

Top 5 Templates

Digital Curation Centre

NSF-BIO: Biological Sciences

NSF-SBE: Social, Behavioral, Economic Sciences

USDA-NIFA: National Institute of Food and Agriculture

NIH-GEN: Generic

[More](#)



Learn | Sign in

DMPTool
Build your Data Management Plan

Welcome

Create data management plans that meet institutional and funder requirements.

A large black arrow points from the left towards a green-outlined button labeled "Get started".

Get started

DMPTool by the Numbers

| | |
|--|--|
| | 29,887 Users |
| | 26,353 Plans |
| | 234 Participating institutions |

[More](#)

Top 5 templates

| |
|--|
| Digital Curation Centre |
| NSF-SBE: Social, Behavioral, Economic Sciences |
| NIH-GDS: Genomic Data Sharing |
| NIH-GEN: Generic |
| NEH-ODH: Office of Digital Humanities |

[More](#)



Build your Data Management Plan

Sign in options

Option 1: If your institution is affiliated with DMPTool.

Your institution

- or -

Option 2: If your institution is not affiliated with DMPTool.

Email address

- or -

Option 3: If not affiliated and you need an account.

Create account with email address



Build your Data Management Plan

Sign in options

Option 1: If your institution is affiliated with DMPTool.

Your institution

- or -

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Email address

- or -

Option 3: If not affiliated and you need an account.

Create account with email address



Look up your institution here



university of

- American University of Beirut (AUB)
- City University of New York (CUNY)
- Missouri University of Science and Technology (MST)
- National University of Singapore (NUS)
- University of Alabama
- University of Alabama at Birmingham (UAB)
- University of Arizona
- University of California, Berkeley (UCB)
- University of California, Davis (UCD)
- University of California, Irvine (UCI)
- University of California, Los Angeles (UCLA)
- University of California, Merced (UCM)
- University of California, Office of the President (UCOP)
- University of California, Riverside (UCR)
- University of California, San Diego (UCSD)
- University of California, San Francisco (UCSF)
- University of California, Santa Barbara (UCSB)
- University of California, Santa Cruz (UCSC)
- University of Campinas (UNICAMP)
- University of Central Florida (UCF)
- University of Chicago





Look up your institution here

Finland



Natural Resources Institute Finland (LUKE)

University of Helsinki, Finland

Institution not in the list? Create an account with any email address

Your institution

- or -

Option 2: If your institution is not affiliated with DMPTool.

Email address

- or -

Option 3: If not affiliated and you need an account.

Create account with email address



Build your Data Management Plan

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Your institution

- or -

Option 2: If your institution is not affiliated with DMPTool.

Email address

- or -

Option 3: If not affiliated and you need an account.

Create account with email address



Build your Data Management Plan

[Sign in](#)[Create account](#)*** First name***** Last name***** Email***** Password** Show password * I accept the terms and conditions[Create account](#)[Create account with email address](#)



Build your Data Management Plan

[My dashboard](#) [Create plan](#)

Notice: Welcome! You have signed up successfully.

My dashboard

[Create plan](#)

Welcome

You are now ready to create your first data management plan.

Click the 'Create plan' button to begin.

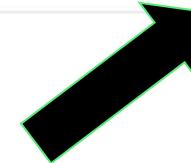
There are no records associated

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Learn ▾

Kathryn Meyer ▾



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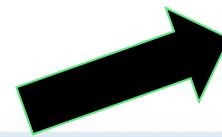
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Build your Data Management Plan

[My dashboard](#) [Create plan](#)

Create a new plan

Before you get started, we need some information about your research project to set you up with the best DMP template for your needs.

What research project are you planning?

 Mock project for testing, practice, or educational purposes

Select the primary research organization

 Begin typing to see a filtered list

- or - My research organisation is not on the list or no research organisation is associated with this plan

Select the primary funding organization

 Begin typing to see a filtered list

- or - No funder associated with this plan

[Create plan](#)[Cancel](#)



Build your Data Management Plan

[My dashboard](#) [Create plan](#)

Create a new plan

Before you get started, we need some information about your research project to set you up with the best DMP template for your needs.

What research project are you planning? 

If applying for funding, state the project title exactly as in
the proposal.

educational purposes

Select the primary research organization

Begin typing to see a filtered list

- or - My research organisation is not on the list or no research organisation
is associated with this plan

Select the primary funding organization

Begin typing to see a filtered list

- or - No funder associated with this plan

[Create plan](#)

[Cancel](#)

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- or -

 My research organisation is not on the list or no research organisation is associated with this plan

Select the primary funding organization

 ✖

- or -

 No funder associated with this plan

Which template would you like to use?

 ▼

We found multiple templates corresponding to your funder.

[Create plan](#)[Cancel](#)



Project details Plan overview Write plan Share Download

Learn | Kathryn Meyer

* Project title

Arctic Data Center DMP Demo

mock project for testing, practice, or educational purposes

Funder

National Science Foundation (NSF)

Grant number

Project abstract

B I

Principal Investigator

Name

Kathryn Meyer

ORCID iD

Email

meyer@nceas.ucsb.edu

Data contact person

Same as Principal Investigator

Plan guidance configuration

To help you write your plan, DMPTool can show you guidance from a variety of organizations.

Select up to 6 organizations to see their guidance.

DMPTool

Find guidance from additional organizations below

[See the full list](#)



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B I

Briefly summarize your research project to help others understand the purposes for which the data are being collected or created.

Principal Investigator

Name
Kathryn Meyer

ORCID iD

Email
meyer@nceas.ucsb.edu

Data contact person

Same as Principal Investigator

Submit Cancel

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B I : = = = = =

Principal Investigator

Name

Kathryn Meyer

ORCID iD

Email

meyer@nceas.ucsb.edu

Data contact person

Same as Principal Investigator

Submit Cancel

Plan guidance configuration

To help you write your plan, DMPTool can show you guidance from a variety of organizations.

Select up to 6 organizations to see their guidance.

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Project details

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* Project title
Arctic Data Center DMP Demo

mock project for testing, practice, or educational purposes

Funder
National Science Foundation (NSF)

Grant number

Project abstract

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Arctic Data Center: NSF Polar Programs [DRAFT]

This plan is based on the "Arctic Data Center: NSF Polar Programs [DRAFT]" template provided by National Science Foundation (NSF).

Instructions

Write plan

Types of data produced

- What types of data, samples, collections, software, materials, etc. will be produced during your project?
- What will be the approximate number and size of data files that will be produced during your project?
- What type of metadata (information others might need to use your data) will be collected during your project?

Note: if you plan to submit data to the Arctic Data Center please refer to the guidance in the panel on the right.

Data and metadata formats

- What format(s) will data and metadata be collected, processed, and stored in?

Note: if you plan to submit data to the Arctic Data Center please refer to the guidance in the panel on the right.

Roles and responsibilities

- 1. What parties and individuals will be involved with data management in this project?
- 2. What will be the roles and responsibilities of each party and or individual with respect to management of the data
- 3. Who will be the lead or primary person responsible for ultimately ensuring compliance with the Data Management Plan?

Note: if you plan to submit data to the Arctic Data Center please refer to the guidance in the panel on the right.

Policies for access and sharing

- Will any of the data and/or related materials produced need provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements? If so describe them and detail any requested exceptions from the archiving requirements set for Arctic Sciences research.
- How will data be accessed and shared during the course of the project?

Arctic Data Center DMP Demo

Project details Plan overview **Write plan** Share Download

Arctic Data Center: NSF Polar Programs [DRAFT]

This plan is based on the "Arctic Data Center: NSF Polar Programs [DRAFT]" template provided by National Science Foundation (NSF).

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0/12 answered

+ Types of data produced (0 / 3)

+ Data and metadata formats (0 / 1)

+ Roles and responsibilities (0 / 1)

+ Policies for access and sharing (0 / 4)

+ Policies for re-use and re-distribution (0 / 2)

+ Plans for archiving and preservation (0 / 1)



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0/12 answered

+ Types of data produced (0 / 3)

+ Data and metadata formats (0 / 1)

+ Roles and responsibilities (0 / 1)

+ Policies for access and sharing (0 / 4)

+ Policies for re-use and re-distribution (0 / 2)

+ Plans for archiving and preservation (0 / 1)

- Types of data produced (0 / 3)

What types of data, samples, collections, software, materials, etc. will be produced during your project?

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NSF example answer

The researchers will collect and record _____. (Enter data types here. Examples are conductivity, temperature, and depth (CTD) data, gas flux data, aerial photos, modeled atmospheric data, etc.)

These data will include the variables _____. (Enter data variables here. Examples are water temperature, water salinity, photosynthetically active radiation, methane flux, soil albedo, etc.)

Additional data products that will be made available include _____. (Enter additional products here. Examples are atmospheric model codes, educational materials, etc.)

| Guidance | Comments |
|----------------|----------|
| NSF DMPTool | Guidance |

What will be the approximate number and size of data files that will be produced during your project?

| Guidance | Comments |
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|----------|----------|

- Types of data produced (0 / 3)

What types of data, samples, collections, software, materials, etc. will be produced during your project?

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| Guidance | Comments |
|----------|----------|
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| Guidance | |
| | |

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What will be the approximate number and size of data files that will be produced during your project?

| Guidance | Comments |
|----------|----------|
| | |

- Data and metadata formats (0 / 1)

What format(s) will data and metadata be collected, processed, and stored in?

Note: if you plan to submit data to the Arctic Data Center please refer to the guidance in the panel on the right.

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NSF example answer

_____ data will be collected in _____. (Examples are handwritten lab notebooks, Microsoft Excel files, CSV files, R scripts, etc. Make sure to specify the collection format for each type of data detailed in your description of data.)

All data will be transferred into the following formats for processing and storage: _____. (Examples are CSV files, NetCDF files, etc.)

Metadata will be collected in _____. (Examples are handwritten lab notebooks, Microsoft Word files, etc.)

All metadata will be transformed from text into EML files by the Arctic Data Center online submission tool when submitting to the Arctic Data Center.

| Guidance | Comments |
|--|----------|
| <p>NSF DMPTool</p> <p>Guidance</p> <p>Arctic Data Center Data Format Policy: The Arctic Data Center primarily supports the upload of open-source, ubiquitous, and easy-to-read data formats. Examples of such formats are Comma Separated Values (CSV) files, text (TXT) files, PNG, JPEG or TIFF image files, and NetCDF files among many others. If you plan to submit to the Arctic Data Center, include your planned methods to create open-source, ubiquitous, and easy-to-read data. If you plan to work with any proprietary data formats such as Excel workbooks or MATLAB files, please include a plan to transform all data stored in these formats into an open-source format before submission to the Arctic Data Center. If you anticipate any data will not be able to be transformed into an open-source format, please provide your reasoning.</p> | |

- Data and metadata formats (0 / 1)

What format(s) will data and metadata be collected, processed, and stored in?

Note: if you plan to submit data to the Arctic Data Center please refer to the guidance in the panel on the right.

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NSF example answer

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- Roles and responsibilities (0 / 1)

1. What parties and individuals will be involved with data management in this project?
2. What will be the roles and responsibilities of each party and or individual with respect to management of the data
3. Who will be the lead or primary person responsible for ultimately ensuring compliance with the Data Management Plan?

Note: if you plan to submit data to the Arctic Data Center please refer to the guidance in the panel on the right.



Save

NSF example answer

The following organizations and individuals will be involved with data management in this project:

_____.

_____ will be responsible for _____. (Examples are collecting data, maintaining data storage and backup systems, interfacing with data repository personnel, etc. Make sure to specify the responsibilities for each organization/individual detailed above.)

The NSF Arctic Data Center will provide data archival, preservation, access and metadata authoring services for the project.

| Guidance | Comments |
|---|----------|
| NSF | DMPTool |
| Guidance Arctic Data Center Identification Policy: The Arctic Data Center utilizes ORCIDs (https://orcid.org/) to identify individuals associated with each dataset. An ORCID will be required for the primary contact of each dataset. ORCIDs are not required for all associated parties but are encouraged so that proper identification and attribution can be given. Please plan on creating (when necessary) and recording ORCIDs for each individual involved with your project before submitting to the Arctic Data Center. | |

- Policies for access and sharing (0 / 4)

Will any of the data and/or related materials produced need provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements? If so describe them and detail any requested exceptions from the archiving requirements set for Arctic Sciences research.



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NSF example answer

_____ data are expected to need provisions for _____. (Examples are appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements. Make sure to specify all the types of data that are expected to need provisions.)

_____ data are expected to need provisions due to _____. (Examples are ethical restrictions, release of indigenous knowledge, etc. Make sure to specify explanations for all expected provisions detailed above.)

Because of these expected provisions, it is expected that _____ data will need to be exempted from the archiving requirements set for Arctic Sciences research.

| Guidance | Comments |
|---|----------|
| <p>NSF DMPTool</p> <p>Guidance</p> <ul style="list-style-type: none">• NSF Office of Polar Programs Guidelines• Arctic Data Center Guidelines on who must submit | |

- Policies for re-use and re-distribution (0 / 2)

How do you anticipate the data for this project will be used? Consider the following:

1. Which bodies/groups are likely to be interested in the data?
2. What and who are the intended or foreseeable uses/users of the data?

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NSF example answer

_____ data are expected to be used by _____. (Examples are academic researchers, government agencies, non-profit organizations, etc. Make sure to specify usage expectations for each type of data detailed in your description of data.)

Other groups that may be interested in _____ data are _____. (Examples are academic researchers, government agencies, non-profit organizations, etc. Make sure to specify interest expectations for each type of data detailed in your description of data.)

| Guidance | Comments |
|----------|----------|
| NSF | Guidance |

Will any permission restrictions need to be placed on the data? Consider the following:

– Plans for archiving and preservation (0 / 1)

What is the long-term strategy for maintaining, curating, and archiving the data?

Note: The Office of Polar Programs policy requires that metadata files, full data sets, and derived data products be deposited in a long-lived and publicly accessible archive.

Note: if you plan to submit data to the Arctic Data Center please refer to the guidance in the panel on the right.

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NSF example answer

The data manager will follow the NSF Arctic Data Center guidelines to provide accurate and complete documentation for data preservation. The NSF Arctic Data Center will ensure that the data are curated in a relevant long-term archive and ensure data will be available after project funding has ended.

| Guidance | Comments |
|--|----------|
| <p>NSF DMPTool</p> <p>Guidance Arctic Data Center Data Preservation Policy: The Arctic Data Center ensures the long-term preservation of the data entrusted to the repository. The guiding principles for the preservation plan follow:</p> <ol style="list-style-type: none">1. Preserve the bits2. Open science, open standards3. Replicate data and metadata4. Strong versioning5. Frequent auditing6. A wind down plan | |

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Set plan visibility

Public or organizational visibility is intended for finished plans. You must answer at least 50% of the questions to enable these options. Note: test plans are set to private visibility by default.

- Private: visible to me, specified collaborators and administrators at my organization
- Organizational: anyone at my organization can view
- Public: anyone can view

Manage collaborators

Invite specific people to read, edit, or administer your plan. Invitees will receive an email notification that they have access to this plan.

| Email address | Permissions |
|----------------------|-------------|
| meyer@nceas.ucsb.edu | Owner |

Invite collaborators

* Email

* Permissions

- Co-owner: can edit project details, change visibility, and add collaborators
- Editor: can comment and make changes
- Read only: can view and comment, but not make changes

Send invitation



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Optional plan components

- project details coversheet
- question text and section headings
- unanswered questions

Format

pdf ▼

PDF formatting

Font

Face

Arial, Helvetica, Sans-Serif ▼

Size (pt)

10 ▼

Margin (mm)

Top

25 ▼

Bottom

20 ▼

Left

12 ▼

Right

12 ▼

[Download plan](#)



Public Plans

Public plans are plans created using the DMPTool service and shared publicly by their owners. They are not vetted for quality, completeness, or adherence to funder guidelines.

| Project title | Template | Organization | Owner | Download |
|--|--|--|------------------------------|---------------------|
| UNDERSTANDING THE ROLE OF PHYSICIAN INTEGRATION WITHIN NURSING HOMES IN POST-ACUTE CARE OUTCOMES | NIH-GEN: Generic | University of Pennsylvania (UPenn) | Kira Ryskina | PDF |
| "A Microgravity-Themed Collaborative Intervention Promoting Student Selection of a STEM Career Pathway" | NSF-EHR: Education and Human Resources | Baylor University | Stacey Smith | PDF |
| A Framework for Adaptive Sampling of Social Science Research Data Using the Twitter API: Understanding Social Media Communication During Crisis Events | NSF-SBE: Social, Behavioral, Economic Sciences | University of California, Davis (UCD) | Carl Stahmer | PDF |
| A Political Ecology of Value: A Cohort-Based Ethnography of the Environmental Turn in Nicaraguan Urban Social Policy | NSF-SBE: Social, Behavioral, Economic Sciences | Non Partner Institution | Josh Fisher | PDF |
| A unified approach to preserving cultural software objects and their development histories | NEH-ODH: Office of Digital Humanities | University of California, Office of the President (UCOP) | DMP dmpcurator | PDF |
| A unified approach to preserving cultural software objects and their development histories | NEH-ODH: Office of Digital Humanities | University of California, Los Angeles (UCLA) | Christopher Cabrera Thompson | PDF |
| Additive Manufacturing for Spare Parts Supply Chain | NSF-ENG: Engineering | University of Tennessee, Knoxville | Nawei Liu | PDF |
| analysis of Brazilian financial investment funds CVM - Escola Politécnica - PPGEE - PCS | Department of Energy (DOE): Generic | Non Partner Institution | Antonio Newton Licciardi Jr | PDF |
| AR or HAI Data Management Plan | NSF-EAR: Earth Sciences | Emory University | Scott Fridkin | PDF |
| Arthropod responses to grassland nutrient limitation | NSF-GEN: Generic | University of California, Office of the President (UCOP) | DMP dmpcurator | PDF |

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1 2 3 4 5 ... Next Last



Summary

- Good data management plans will save you time and effort overall
- Data management plans are not static - revise as you do your research project
- Take advantage of DMP resources to create your plan
- The Arctic Data Center is available to assist with your DMP development