

# ROSES Open Science and Data Management Plan Template

This is an optional template that proposers are encouraged to use with all ROSES-2025 proposals that require an Open Science and Data Management Plan (OSDMP). This template supersedes prior ROSES OSDMP templates provided by SMD divisions. This template is from <https://science.nasa.gov/researchers/sara/faqs/OSDMP>. For more information about the OSDMP see Section II(c) of the ROSES Summary of Solicitation.

Posted: Spring 2025.

## How to use this document

1. This page and all blue text is explanatory/instructional and should be removed prior to submission of your OSDMP.
2. For most ROSES program elements, the OSDMP has a two-page limit.
3. If there are costs associated with performing the tasks described in the OSDMP, those costs should be accounted for in the proposal budget and/or budget justification.
4. For programs using [Dual-Anonymous Peer Review](#), the OSDMP must be anonymized.
5. This template is applicable across all SMD-funded ROSES program elements. Please follow any specific instructions for the OSDMP in the program element to which you are proposing.
6. Additional resources, including SMD-level guidance on open science requirements and division-level policies and examples, are available on the [ROSES OSDMP web page](#).
7. Questions regarding the OSDMP should be directed to the Point of Contact of the ROSES program element and [HQ-SMD-SPD41@mail.nasa.gov](mailto:HQ-SMD-SPD41@mail.nasa.gov) and cc: [SARA@nasa.gov](mailto:SARA@nasa.gov).
8. If no scientific data, software, or publications will be developed by the proposed activities, the OSDMP requirement may be satisfied by replacing the sections in the template with the following statement: "The proposed work is not expected to produce any scientifically useful data, software, or publications. If any scientifically useful information is produced, it will be made publicly available to the extent legally permitted per the Scientific Information Policy for the Science Mission Directorate."
9. Please see the ROSES Summary of Solicitation, the Division Research Overviews, and/or the relevant ROSES program element for the detailed requirements on the sharing of information.

## Open Science and Data Management Plan

### 1. Data Management

If an activity is not expected to produce scientifically useful data, this section may be replaced with a statement that “The proposal is not expected to produce any scientifically useful data. If any scientifically useful data is produced, it will be made publicly available to the extent legally permitted per the Scientific Information Policy for the Science Mission Directorate.”

#### 1.1 Expected data types, formats, volumes, and standards

Describe the scientifically useful data expected to be produced from the proposed activities. Include:

- types of data to be produced (e.g., time series, images, spectrograms)
- the approximate volume of each data type expected
- the machine-readable format of the data
- applicable standards for the data or associated metadata

This may be provided either in narrative form or as a table.

#### 1.2 Data archiving and accessibility

Describe how the data will be archived and made publicly accessible. Include:

- the repository(ies) that will be used to archive and provide public access to data and metadata arising from the proposed activities
- the schedule for making data publicly available
- the license under which the data will be shared to enable reusability
- a description of how the data will be made citable with a persistent identifier

The repositories to be used should ensure long-term preservation of the data. For guidance on the selection of an appropriate repository, refer to the guidance in the program element and/or the [ROSES OSDMP web page](https://science.nasa.gov/researchers/sara/faqs/OSDMP) at <https://science.nasa.gov/researchers/sara/faqs/OSDMP>.

#### 1.3. Data exempt from data sharing requirements

If applicable, specify data types that are excluded from requirements to make the data publicly available and cite the relevant laws, regulations, or policies that generate the exclusion. If all scientifically useful data produced by the project will be made publicly available, this section may be omitted.

### 2. Software Management

If the activity is not expected to produce useful software, include a statement such as: “No scientific software development is anticipated for this effort. If software is created, it will be made publicly available to the extent legally permitted per the Scientific Information Policy for the Science Mission Directorate.”

#### 2.1 Expected software development

Describe the software expected to be produced from the proposed activities. Include:

- types of software to be developed, which may include the addition of new features or updates to existing software

- a description of how the software will be developed. If applicable, this can include the platforms used for development, project management, and community-based best practices such as documentation, testing, dependencies, code of conduct, and versioning.

## 2.2 Software archiving and accessibility

Describe how the software developed by the project will be archived and made publicly accessible. Include:

- the schedule for making software publicly available
- the repository(ies) that will be used to archive software
- the license under which the software will be made available
- a description of how software packages, if developed, will be made citable

## 2.3 Description of software that are exempt from software sharing requirements

If applicable, specify types of software to be developed by the project that are excluded from requirements to make the software publicly available and cite the relevant laws, regulations, or policies that generate the exclusion. If all software developed by the project will be made publicly available, this section may be omitted.

## 3. Publication Sharing

Describe the types of publications that are expected to be produced from the activities (e.g., peer reviewed manuscripts, technical reports, conference materials, and books). Outline the methods expected to be used to make the publications publicly available at time of publication. This can include making a peer reviewed manuscript available in a NASA designated repository, publishing as Open Access, or other activities as described on the [STI Public Access](#) website.

## 4. Other Open Science Activities

If applicable and within the scope of the ROSES program element, include a description of additional open science activities associated with the proposed work (if not described elsewhere in the proposal). This may include: holding scientific workshops and meetings openly, providing project personnel with open science training or enablement, preregistering research plans in advance of conducting scientific activities, and contributions to or involvement in open science communities.

If physical samples are involved, this section must describe plans to make publicly available any physical materials with scientific value that would not be consumed during the research (if not described elsewhere in the proposal or OSDMP). Describe the intended repository for the materials. Describe plans for the public availability of the materials or justify why it is not practical or scientifically useful to do so. Describe the plans and timeline for making scientific data derived from the materials publicly available.

## 5. Roles and Responsibilities

Specify the project personnel who will ensure the implementation of the OSDMP. This may be its own section or integrated into the sections above.

Questions regarding this template may be directed to [HQ-SMD-SPD41@mail.nasa.gov](mailto:HQ-SMD-SPD41@mail.nasa.gov)