

National Aeronautics and  
Space Administration



# Open Science Requirements in ROSES- 2023 & Evaluating the OSDMP

Guidance for ROSES Panelists

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# Open Science and Data Management Plans (OSDMP)

- Required for most ROSES program elements, starting in 2023
- Describes how proposed work will comply with SMD's open science requirements (details on next slide)
- Replaces requirement for Data Management Plan
- OSDMP includes plans for sharing data, software, and publications, as well as other open science activities
- Included in evaluation of proposal's intrinsic merit
- The costs for the activities described in the OSDMP should be included in the proposal budget. SMD *will support* reasonable costs associated with open science for future awards.
- See [SMD Open-Source Science Guidance](#) & [ROSES OSDMP page](#) for more.



# Open Science Requirements in ROSES-2023

These requirements were incorporated into ROSES-2023 Summary of Solicitations to align with SPD-41a: Scientific Information Policy for the Science Mission Directorate

- 1) As-accepted manuscript versions of publications that derive from ROSES-2023 awards must be publicly available at the time of publication ([publication guidance](#))
- 2) Data and software developed using ROSES funding in support of a peer-reviewed publication shall be made publicly available at the time of publication ([data guidance](#); [software guidance](#))
- 3) Scientifically useful data and software developed during the award that was not already published must be made publicly available by the end of the award
- 4) PIs and Co-Is must provide their digital persistent identifier (e.g., ORCID) via NSPIRES ([PID guidance](#))
- 5) Unless otherwise stated, proposals must include an “Open Science and Data Management Plan” ([OSDMP guidance](#))

# OSDMP Format and Components

- Solicitations may specify a [template](#)
- 2 page limit is typical; not included in page limit for S/T/M section
- OSDMP is anonymized for program elements using [Dual-Anonymous Peer Review](#) (DAPR)
- Minimum Components
  - Data Management Plan
  - Software Management Plan
  - Open Science Plan (sharing publications; other open science activities)

[OSDMP guidance on GitHub](#)

## Example of an OSDMP Evaluation Checklist (part 1)

### ☐ General Considerations

- ☐ Within page limit (typically 2 pages)
- ☐ Follows template specified by solicitation, if applicable
- ☐ Anonymized, if DAPR

### ☐ Data Management Plan

- ☐ Expected data types, formats, volumes, and standards
- ☐ Method for archiving data and providing public access
- ☐ Timeline for sharing data (no later than time of peer-reviewed publication, or by end of performance period)
- ☐ Data types exempt from sharing requirements



## Example of an OSDMP Evaluation Checklist (part 2)

### ☐ Software Management Plan

- ☐ Expected software types
- ☐ Method for archiving and providing public access (*for ROSES23, this can be considered a strength but not a weakness*)
- ☐ Timeline for sharing software (no later than time of peer-reviewed publication, or by end of performance period)
- ☐ Software exempt from sharing requirements

### ☐ Open Science Plan

- ☐ Types of publications to be produced and methods for providing public access
- ☐ Other open science activities, if applicable





# Examples of possible OSDMP Strengths and Weakness

## Strengths

- Publications will be shared as preprints
- Contributing to an existing open source project

## Weakness

- Data will be shared upon request
- Publishing in a predatory or vanity journal

## Neutral

- Programming language used or use of commercial software
- Publications in a high impact journal



## Resources for ROSES Panelists

- SMD Open-Source Science Guidance: available in [PDF](#) and on [GitHub](#)
  - [OSDMP Guidance](#)
  - [ROSES OSDMP page](#)
  - [SMD Scientific Information Policy FAQ](#)
- For feedback on these slides or the Open-Source Science Guidance, contact the SMD Chief Science Data Office at [HQ-SMD-SPD41@mail.nasa.gov](mailto:HQ-SMD-SPD41@mail.nasa.gov).