



National Aeronautics and
Space Administration

Planetary Science Division R&A Update

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Director of Planetary Research & Deputy Director of Planetary Research



Agenda

01

STAFF UPDATES

04

GRANT POLICIES

02

BUDGET

05

COMMUNITY

03

R & A UPDATES

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Staff Updates

- Effective April 2024, Santiago-Materese and Vander Kaaden will swap roles
- Goodbyes since last meeting:
 - Jeff Grossman (retired)
 - Megan Ansdell (temporarily!)
- New Team Members:
 - Kanisha Armintia
 - Aaron Burton
 - Nicholas Lang (IPA to CS)
 - Katie Robinson



Director of Planetary Research
(acting)



Deputy Director of Planetary
Research (acting)





Budget

NASA continues to operate under a continuing resolution for FY2024.

FY2025 President's Budget Request will be submitted to Congress on March 11, 2024.

→ **As such, we do not have updates at this time.**

In anticipation of tightened budgets, an increased fraction of proposals submitted to R&A programs may be initially assigned a 'Selectable' status before a final decision can be made (i.e., to avoid revoking selections).

R & A Updates



ROSES before and after 2023

ROSES-2022:

- Over 300 new research grants, for funding across the US
- Overall selection rate: 27%

ROSES-2024:

Released February 14, 2024 🌹

(more later)

PSD ROSES-2023 Programs with Due Dates

PROGRAM	Step-1 Due Date	Step-2 Due Date	Panels Held	Selections/Proposals	Selection Dates	Days from Step-2 to Select
Exoplanets Research	3/28/2023	6/1/2023	Yes	26/116 (24%)	8/14/2023	74
Yearly Opportunities for Research in Planetary Defense	4/20/2023	6/14/2023	Yes	11/34 (32%)	11/3/2023	142
Development and Advancement of Lunar Instrumentation	4/13/2023	6/22/2023	Yes	5/32 (16%)	12/21/2023	185
Cassini Data Analysis Program	5/4/2023	7/13/2023	Yes	16/44 (36%)	11/17/2023	120
Planetary Protection Research	6/21/2023	7/20/2023	Yes	4/8 (50%)	11/6/2023	110
Planetary Science and Technology Through Analog Research	8/16/2023	10/24/2023	No	xx/45	TBD	TBD
Discovery Data Analysis	9/6/2023	11/2/2023	Yes	xx/21	TBD	TBD
New Frontiers Data Analysis Program	9/14/2023	11/9/2023	Yes	xx/22	TBD	TBD
Mars Data Analysis	9/7/2023	11/16/2023	Yes	xx/79	TBD	TBD
Hera Participating Scientist Program	10/3/2023	11/30/2023	No	xx/27	TBD	TBD
Planetary Science Early Career Award	N/A	12/7/2023	No	xx/29	TBD	TBD
Habitable Worlds	11/8/2023	2/1/2024	No	xx/40	TBD	TBD
Lunar Data Analysis	3/1/2024	4/30/2024				
Future Investigators in NASA Earth and Space Science and Technology	N/A	2/6/2024	258	xx/258	TBD	TBD
Maturation of Instruments for Solar System Exploration	Not Solicited This Year					
Planetary Science Enabling Facilities	Not Solicited This Year					
Interdisciplinary Consortia for Astrobiology Research	Not Solicited This Year					
Precursor Science Investigations for Europa	Not Solicited This Year					
Analog Activities to Support Artemis Lunar Operations	Not Solicited This Year					

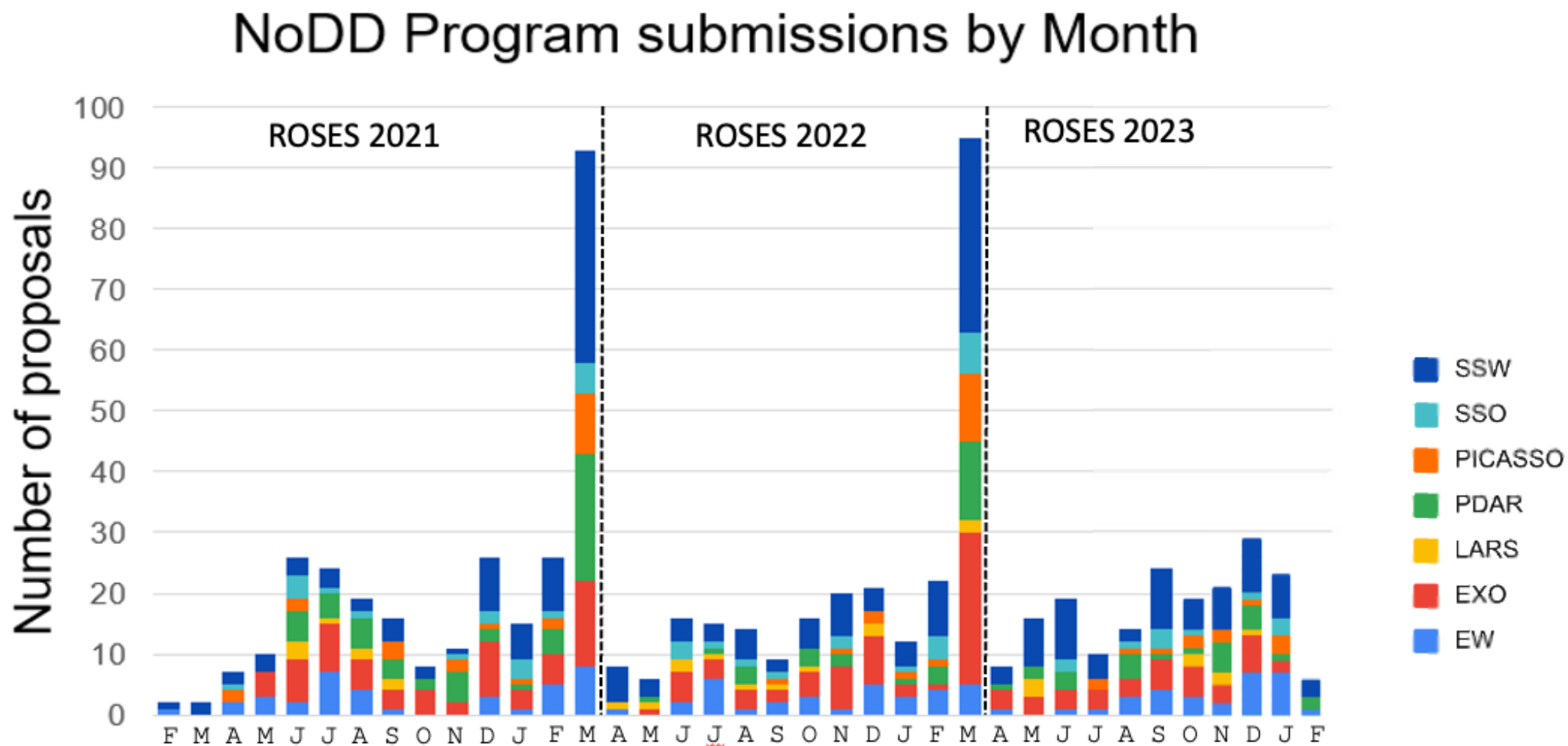
NoDD programs

We will be reporting NoDD statistics, in general, for the year ending 6 months ago (the last year to pass the nominal notification goal of 180 days).

Program	# Submit	# Select	# Decline	# Pending	# Selectable	Selection Rate
EW	28	14	14	0	0	50%
SSW	89	36	50	1	2	40%
PDAR	32	9	22	0	1	28%
EXO	64	13	51	0	0	20%
SSO	18	7	9	0	1	39%
PICASSO	20	9	10	0	1	45%
H2O	8	6	2	0	0	75%
LARS	9	7	2	0	0	78%
Total	268	101	160	1	5	38%

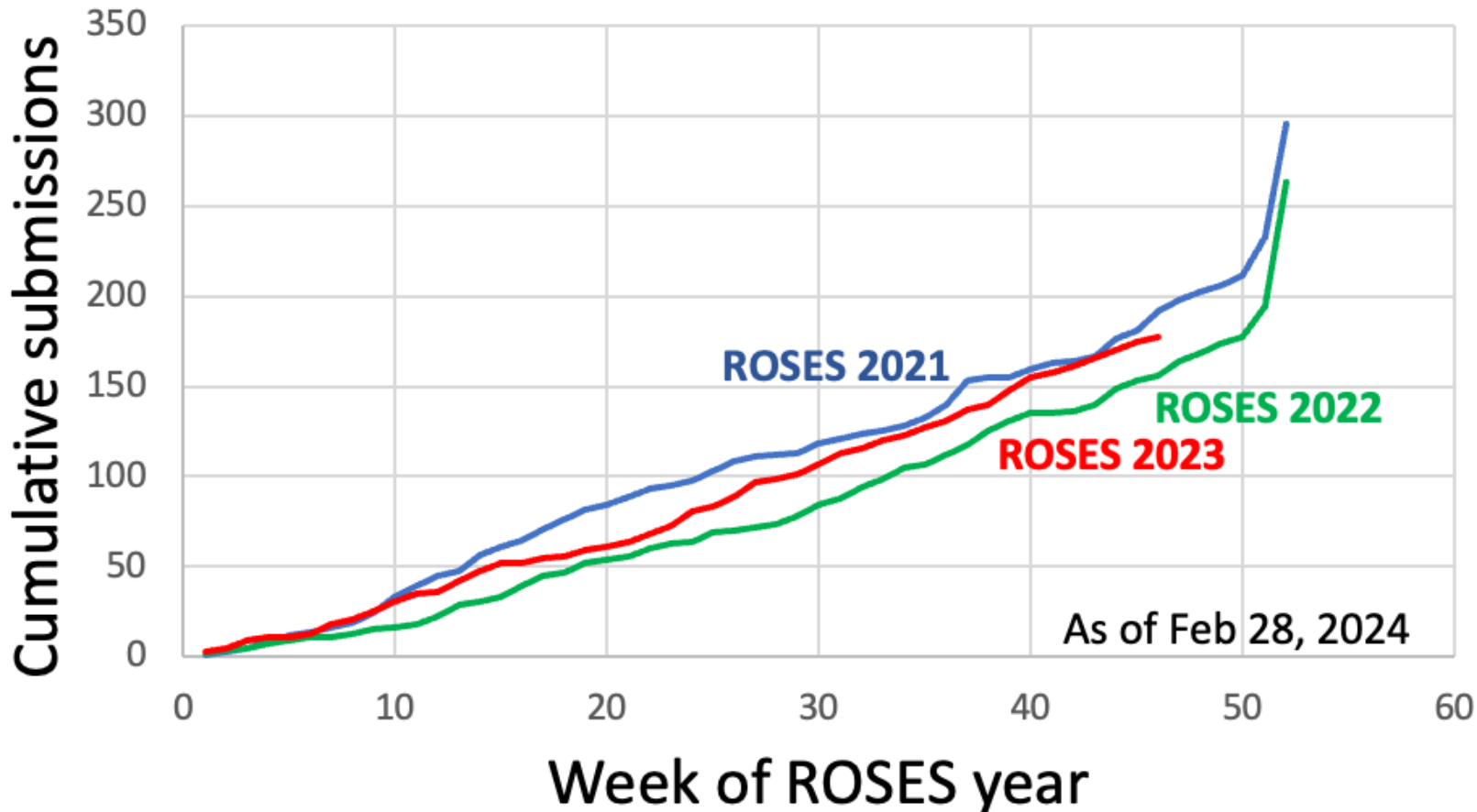
These numbers will change as any pending proposals get reviewed.

NoDD Proposal Submissions by Month



The No Due Date, or "NoDD" trial period continues

NoDD submissions - all programs



- Years 1 (ROSES-2021) and 2 ROSES-2022: Complete
- Year 3: ROSES-2023 reviews are on-going, with proposals eligible for submission until March 29, 2024

→ The full extent of the three-year trial period will not be complete until Fall 2024.

Internal Scientist Funding Model (ISFM) in PSD

Center	# of ISFMs	Total ISFM FY24 Budget	Perf. Period	Most Recent External Review
Ames Research Center (ARC)	5	~\$4.4M	3 years	June 2023
Johnson Space Center (JSC)	5	~\$7M	4 years	October 2023
Marshall Space Flight Center (MSFC)	1	~\$0.63M	4 years	October 2023
Goddard Space Flight Center (GSFC)	5	~\$9M	5 years	Upcoming (April 2024)

- Over 200+ civil servants, contractors and postdocs are supported (fully or partially) by PSD ISFMs.
- ISFM work packages are currently in “Round 2”. The Centers have offset cycles to reduce the reviewing burden. In the next ISFM cycle, “Round 3”, Center budgets will remain at current level and new ISFMs will be on 4-year performance periods starting in:
 - FY25 for ARC
 - FY26 for JSC and MSFC
 - FY27 for GSFC

Planetary Science Enabling Facilities (C.17)

- Current PSEF will undergo a mid-term review in 2025
 - Wind-Down
 - Continue
 - Extend
- Solicited in ROSES-24
 - Expected annual program budget for new awards: \$5M
 - Expected number of new proposals: 2–8
- Substantial equipment requests (e.g., \$50K+) should follow requirements in C.1 Section 3.11
- Please direct any questions to HQ-PSEF@mail.nasa.gov
 - Program Officer: Aaron Burton

- GSECARS
 - Tony Lanzirotti, U. Chicago
- NFAR
 - Justin Simon, NASA JSC
- KEVION
 - Cathy Dukes, U. Virginia
- K-ALFAA
 - Tom Zega, U. Arizona
- LPI SEM
 - Cyrena Goodrich, USRA/LPI
- PAL
 - Haley Cummings, NASA Ames
- PCARF
 - Michael Pauken, JPL
- RELAB
 - Ralph Milliken, Brown U.
- UTCT
 - Romy Hanna, UT Austin

<https://science.nasa.gov/researchers/planetary-science-enabling-facilities>

Grant Policies



Stricter enforcement of existing policies

No Cost Extensions (NCEs)

- The NSSC has recently begun enforcing the deadline for requesting NCEs.
- NCEs must be requested between 60d and 10d prior to the end of the PoP (period of performance).
If you miss this deadline -- even by a day -- the NCE may be denied, causing the grant to terminate.
- The same NCE rules apply to PI Transfers. Your grant must be active at the time that the final, approved paperwork is submitted to the NSSC. If the grant expires while you're assembling the transfer paperwork (but before you submit it), the grant may be terminated.

Progress Reports

- The NSSC has begun enforcing very specific content requirements for progress reports. Please provide reports in compliance with these requirements.
 - A new template is available at:
<https://science.nasa.gov/researchers/templates-planetary-science-division-appendix-c-roses-proposals>

ROSES Updates

*Research Opportunities in
Space and Earth Science*



SMD Yearbook is out!

SMD Yearbook for ROSES-2021:

<https://science.nasa.gov/roes2021yearbook/>

Table of Contents - PSD

8. Planetary Science Division (PSD)

a. Demographics

i. Principal Investigators (PIs)

1. Limitations of the Data – PSD PIs

2. Gender

a. Submitted Proposals

b. Selected Proposals

c. Selection Rate

3. Race

a. Submitted Proposals

b. Selected Proposals

c. Selection Rate

4. Race using Under-Represented Community (URC)

a. Submitted Proposals

b. Selected Proposals

c. Selection Rate

5. Ethnicity

a. Submitted Proposals

b. Selected Proposals

c. Selection Rate

6. Career Stage

a. Submitted Proposals

b. Selected Proposals

c. Selection Rate

7. Disability Status

a. Submitted Proposals

b. Selected Proposals

c. Selection Rate

8. Institutional Analysis

a. Institution Type

ROSES-2024

ROSES-2024:

- It's out!
- EW-SSO-SSW merger delayed
- Participation of MSIs, PUIs, and CCs encouraged
- New Frontiers Precursor Research and Data Analysis Program will not be solicited
 - New Frontiers Data Analysis Program still solicited
- New requirements to proposals involving fieldwork (more later)
- C.12 PICASSO, C.13 MatISSE, C.19 DALI now require OSDMPs

ROSES-2025:

- DAPR as default

Fieldwork in ROSES-24

Proposers conducting field research must include a description of how the research plan addresses:

Environmental Protection of the Site
Access and Permitting
Safety of the Field Party
Relationships and Collaborations with Tribes and Indigenous Communities
Cultural and Historical Heritage



This description will be placed in a maximum of 2 additional pages, in the proposal PDF immediately following the OSDMP, which is placed after the references and citations for the S/T/M section of the proposal or in E&R section for DAPR programs.

Additional supporting resources can be found at:

<https://science.nasa.gov/researchers/planetary-science-fieldwork>

10:20 AM

Scalice D.* Kirven-Brooks M. Gronstal A. Martin M.
Eckman R. Santiago-Materese D. et al.

Thursday at LPSC
Waterway Ballroom 6

Beyond Permits, Toward Relationships: New NASA Planetary Science Division ROSES Requirements for Ethics in Fieldwork [#2083]

NASA's Planetary Science Division has created a revised section of the omnibus solicitation system, ROSES, to ensure the fieldwork it funds reflects emergent ethics, especially where relationship with Indigenous communities is concerned.

Community





LPI/ AG Expectation Setting

PSD has recently begun actively working with LPI and the Assessment/Analysis Groups to set expectations going forward in terms of LPI support of the AGs.

Reminder that the AG support guidelines were set several years ago.

We encourage the AGs to work closely with their Headquarters liaisons.



Upcoming Town Halls

Tuesday, May 21st, at 1 pm ET (Virtual)

Goals:

- Familiarize broader planetary community with DAPR
- **Discuss ways to reduce barriers to proposing**
 - Note: The DAAR recently had an RFI entitled "Improving the Usability of the Research Opportunities in Space and Earth Science (ROSES)" NASA Research Announcement (NRA) (Due Feb. 23, 2024)

IDEA Update

- Active PSD participation in several conferences this past Fall:
 - AISES: American Indian Science and Engineering Society (October 3-5, 2023)
 - SACNAS: Society for Advancement of Chicanos/Hispanics & Native Americans in Science (October 26-28, 2023)
 - NSBP: National Society of Black Physicists (November 9-12, 2023)
- Europa ICONs (Inspiring Clipper: Opportunities for Next-generation Scientists (ICONs): Strong response!
- H2O: Mentor–Mentee meet and greet at LPSC, tours of JSC
- Cross-AG IDEA group presenting at the next PAC
- April 2024 Solar Eclipse: targeted outreach



SACNAS 2023

LPSC 2024 Activities

Monday Tuesday Wednesday Thursday

**NASA Night/ NASA
Headquarters Briefing**
5:45 PM
Waterway Ballrooms 4/5/6

**Ask Your Program Officers
Anything**
11:30 AM
Creekside Park

**ROSES-2024 OSDMPs and
Community Resources**
11:30 AM
Creekside Park

**NASA SMD PSD R & A Town
Hall**
1:00 PM
Waterway Ballrooms 4/5/6

NASA Meet-and-Greet Session
5:30 PM
West-End Upstairs Lobby

**Ask Your Program Officers Anything
Open to Early Career Researchers Only**
11:30-12:30
Creekside Park

NASA HQ Technology Development Plan
1:00 – 2:00 PM
Plenary Session

**Here 2 Observe mentor-mentee Meet-
and-Greet**
5:30 PM
West-End Upstairs Lobby

**Planetary Data Ecosystem
Independent Review Board Update**
11:30-12:30
Grogan's Mill

**Early-Career Award Proposal
Workshop**
11:30-12:30
Creekside Park

**NASA's Early-Career Award
Winners Presentations**
1:00 – 2:00 PM
Plenary Session



Please reach out!

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Kathleen.E.VanderKaaden@nasa.gov