Announcements

Two opportunities have been posted:

• Call for people interested in working at HQ either as an IPA or on a detail
  • [https://science.nasa.gov/about-us/job-opportunities](https://science.nasa.gov/about-us/job-opportunities)

• Call for nominations for new PAC members. We’re particularly interested in members with expertise in habitability and sample science.
  • [https://science.nasa.gov/researchers/nac/science-advisory-committees/pac](https://science.nasa.gov/researchers/nac/science-advisory-committees/pac)
  • Current PAC members’ appointments extended by three months. New terms to start on January 1.
<table>
<thead>
<tr>
<th>Program</th>
<th>Step-1 Due Date</th>
<th>Step-2 Due Date</th>
<th>Panels Held</th>
<th>Selections/Proposals</th>
<th>Selection Dates</th>
<th>Days from Step-2 to Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planetary Science Division ROSES 21 Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Planetary Protection Research</td>
<td>04/12/2021</td>
<td>05/13/2021</td>
<td>Yes</td>
<td>5/10 (50%)</td>
<td>10/15/2021</td>
<td>155</td>
</tr>
<tr>
<td>Exoplanets Research Program</td>
<td>04/02/2021</td>
<td>05/27/2021</td>
<td>Yes</td>
<td>22/183 (12%)</td>
<td>10/6/2021</td>
<td>132</td>
</tr>
<tr>
<td>Development and Advancement of Lunar Instrumentation</td>
<td>04/16/2021</td>
<td>06/16/2021</td>
<td>Yes</td>
<td>5/44 (11%)</td>
<td>1/21/2022</td>
<td>219</td>
</tr>
<tr>
<td>Yearly Opportunities for Research in Planetary Defense</td>
<td>04/22/2021</td>
<td>06/17/2021</td>
<td>Yes</td>
<td>12/23 (52%)</td>
<td>10/19/2021</td>
<td>124</td>
</tr>
<tr>
<td>Cassini Data Analysis Program</td>
<td>05/07/2021</td>
<td>07/09/2021</td>
<td>Yes</td>
<td>15/38 (39%)</td>
<td>10/8/2021</td>
<td>92</td>
</tr>
<tr>
<td>Hot Operating Temperature Technology</td>
<td>06/01/2021</td>
<td>08/03/2021</td>
<td>Yes</td>
<td>7/38 (18%)</td>
<td>11/12/2021</td>
<td>101</td>
</tr>
<tr>
<td>Juno Participating Scientist Program</td>
<td>06/14/2021</td>
<td>08/13/2021</td>
<td>Yes</td>
<td>10/27 (37%)</td>
<td>11/12/2021</td>
<td>91</td>
</tr>
<tr>
<td>VIPER Mission Co-Investigator Program</td>
<td>07/02/2021</td>
<td>08/31/2021</td>
<td>Yes</td>
<td>8/50 (16%)</td>
<td>12/21/2021</td>
<td>112</td>
</tr>
<tr>
<td>Planetary Science and Technology Through Analog Research</td>
<td>07/23/2021</td>
<td>10/07/2021</td>
<td>Yes</td>
<td>6/49 (12%)</td>
<td>3/30/22</td>
<td>175</td>
</tr>
<tr>
<td>New Frontiers Data Analysis Program</td>
<td>09/03/2021</td>
<td>11/04/2021</td>
<td>Yes</td>
<td>7/21 (33%)</td>
<td>1/24/2022</td>
<td>81</td>
</tr>
<tr>
<td>Mars Science Laboratory Participating Scientist Program</td>
<td>09/15/2021</td>
<td>11/05/2021</td>
<td>Yes</td>
<td>25/50 (50%)</td>
<td>1/21/2022</td>
<td>77</td>
</tr>
<tr>
<td>Mars Data Analysis</td>
<td>09/24/2021</td>
<td>11/18/2021</td>
<td>Yes</td>
<td>20/66 (30%)</td>
<td>5/10/2022</td>
<td>173</td>
</tr>
<tr>
<td>Discovery Data Analysis</td>
<td>09/28/2021</td>
<td>11/23/2021</td>
<td>Yes</td>
<td>9/31 (29%)</td>
<td>3/26/2022</td>
<td>107</td>
</tr>
<tr>
<td>Planetary Science Early Career Award</td>
<td>N/A</td>
<td>12/08/2021</td>
<td>Yes</td>
<td>5/27 (19%)</td>
<td>4/17/2022</td>
<td>130</td>
</tr>
<tr>
<td>Payloads and Research Investigations on the Surface of the Moon</td>
<td>12/20/2021</td>
<td></td>
<td>Yes</td>
<td>2/29 (7%)</td>
<td>6/7/2022</td>
<td>169</td>
</tr>
<tr>
<td>Lunar Data Analysis</td>
<td>12/01/2021</td>
<td>02/24/2022</td>
<td>Yes</td>
<td>7/35 (20%)</td>
<td>6/16/2022</td>
<td>112</td>
</tr>
<tr>
<td>Martian Moons eXploration Participating Scientist Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Future Investigators in NASA Earth and Space Science and Technology</td>
<td>N/A</td>
<td>02/11/2022</td>
<td>Yes</td>
<td>32/230 (14%)</td>
<td>6/15/2022</td>
<td>124</td>
</tr>
<tr>
<td>OSIRIS-REx Sample Analysis Participating Scientist Program</td>
<td></td>
<td>04/26/2022</td>
<td>Yes</td>
<td>8/58 (17%)</td>
<td>8/1/2022</td>
<td>97</td>
</tr>
</tbody>
</table>

Highlighted in Yellow = Cross-Divisional
Not solicited this year: MatISSE, ICAR, Habitable Worlds

1: DAPR Program
# NoDD programs

We will be reporting NoDD statistics, in general, for the past year. (Data here as of December 2022)

<table>
<thead>
<tr>
<th>Program</th>
<th>Total ROSES21-22</th>
<th>Submitted</th>
<th>Pending</th>
<th>Declined</th>
<th>Selected</th>
<th>Selectable</th>
<th>Selection Rate</th>
<th># Props</th>
<th>Still pending</th>
<th>Older than 12 months</th>
<th># of these notified</th>
<th>50% notification time as of 10/1/22</th>
<th>80% notification time as of 10/1/22</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.2</td>
<td>EW</td>
<td>53</td>
<td>33</td>
<td>6</td>
<td>17</td>
<td>10</td>
<td>0</td>
<td>30%</td>
<td>26</td>
<td>2</td>
<td>0</td>
<td>24</td>
<td>127</td>
</tr>
<tr>
<td>C.3</td>
<td>SSW</td>
<td>117</td>
<td>94</td>
<td>21</td>
<td>46</td>
<td>24</td>
<td>3</td>
<td>26%</td>
<td>75</td>
<td>7</td>
<td>0</td>
<td>61</td>
<td>184</td>
</tr>
<tr>
<td>C.4</td>
<td>PDAR</td>
<td>62</td>
<td>38</td>
<td>10</td>
<td>24</td>
<td>4</td>
<td>0</td>
<td>11%</td>
<td>30</td>
<td>2</td>
<td>3</td>
<td>31</td>
<td>133</td>
</tr>
<tr>
<td>C.5</td>
<td>EXO</td>
<td>89</td>
<td>56</td>
<td>15</td>
<td>24</td>
<td>15</td>
<td>2</td>
<td>27%</td>
<td>41</td>
<td>2</td>
<td>0</td>
<td>30</td>
<td>130</td>
</tr>
<tr>
<td>C.6</td>
<td>SSO</td>
<td>27</td>
<td>19</td>
<td>8</td>
<td>7</td>
<td>4</td>
<td>0</td>
<td>21%</td>
<td>15</td>
<td>4</td>
<td>0</td>
<td>15</td>
<td>9</td>
</tr>
<tr>
<td>C.12</td>
<td>PICASSO</td>
<td>25</td>
<td>16</td>
<td>2</td>
<td>8</td>
<td>6</td>
<td>0</td>
<td>38%</td>
<td>14</td>
<td>0</td>
<td>0</td>
<td>13</td>
<td>157</td>
</tr>
<tr>
<td>C.16</td>
<td>LARS</td>
<td>16</td>
<td>8</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>25%</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>7</td>
<td>4</td>
</tr>
</tbody>
</table>

Notes:
Selection rates have improved
Proposals are still meeting high standards.
It is taking us too long to get proposals reviewed and notified
But we’re getting better!
<table>
<thead>
<tr>
<th>Program</th>
<th>Step-1 Due Date</th>
<th>Step-2 Due Date</th>
<th>Panels Held</th>
<th>Selections/Proposals</th>
<th>Selection Dates</th>
<th>Days from Step-2 to Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exoplanets Research Program</td>
<td>03/31/2022</td>
<td>05/26/2022</td>
<td>Yes</td>
<td>30/173 (17%)</td>
<td>08/30/2022</td>
<td>96</td>
</tr>
<tr>
<td>Maturation of Instruments for Solar System Exploration</td>
<td>04/06/2022</td>
<td>07/14/2022</td>
<td>Yes</td>
<td>5/37 (14%)</td>
<td>10/20/22</td>
<td>98</td>
</tr>
<tr>
<td>Planetary Science Enabling Facilities</td>
<td>04/08/2022</td>
<td>06/03/2022</td>
<td>Yes</td>
<td>10/25 (40%)</td>
<td>10/31/22</td>
<td>150</td>
</tr>
<tr>
<td>Development and Advancement of Lunar Instrumentation</td>
<td>04/13/2022</td>
<td>06/15/2022</td>
<td>Yes</td>
<td>5/33 (15%)</td>
<td>2/28/22</td>
<td>258</td>
</tr>
<tr>
<td>Yearly Opportunities for Research in Planetary Defense</td>
<td>04/21/2022</td>
<td>06/16/2022</td>
<td>Yes</td>
<td>8/17 (47%)</td>
<td>12/2/22</td>
<td>169</td>
</tr>
<tr>
<td>Cassini Data Analysis Program¹</td>
<td>05/05/2022</td>
<td>07/07/2022</td>
<td>Yes</td>
<td>8/27 (30%)</td>
<td>02/16/23</td>
<td>81</td>
</tr>
<tr>
<td>Martian Moons eXploration Participating Scientist Program</td>
<td>06/16/2022</td>
<td>08/16/2022</td>
<td>Yes</td>
<td>XX/49</td>
<td></td>
<td>Delayed for coordination with JAXA</td>
</tr>
<tr>
<td>Planetary Protection Research</td>
<td>06/21/2022</td>
<td>07/20/2022</td>
<td>Yes</td>
<td>5/15 (33%)</td>
<td>12/20/22</td>
<td>153</td>
</tr>
<tr>
<td>Discovery Data Analysis¹</td>
<td>09/06/2022</td>
<td>11/01/2022</td>
<td>Yes</td>
<td>XX/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Frontiers Data Analysis Program¹</td>
<td>09/07/22</td>
<td>11/3/2022</td>
<td>Yes</td>
<td>9/22 (41%)</td>
<td>2/13/23</td>
<td>102</td>
</tr>
<tr>
<td>Mars Data Analysis¹</td>
<td>09/07/2022</td>
<td>11/15/2022</td>
<td>No</td>
<td>XX/55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analog Activities to Support Artemis Lunar Operations</td>
<td>N/A</td>
<td>12/06/2022</td>
<td>Yes</td>
<td>13/33 (39%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Planetary Science Early Career Award</td>
<td>N/A</td>
<td>12/08/2022</td>
<td>Yes</td>
<td>XX/33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apollo Next Generation Sample Analysis Program</td>
<td>10/17/2022</td>
<td>01/19/2023</td>
<td>No</td>
<td>XX/7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Precursor Science Investigations for Europa</td>
<td>11/01/2022</td>
<td>12/16/2022</td>
<td>No</td>
<td>XX/28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interdisciplinary Consortia for Astrobiology Research</td>
<td>09/15/2022</td>
<td>01/20/2023</td>
<td>No</td>
<td>XX/28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Habitable Worlds¹</td>
<td>11/08/2022</td>
<td>02/03/2023</td>
<td>No</td>
<td>XX/39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lunar Data Analysis¹</td>
<td>12/1/2022</td>
<td>02/23/2023</td>
<td>No</td>
<td>XX/34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Artemis III Geology Team</td>
<td>2/24/23</td>
<td>4/25/23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Future Investigators in NASA Earth and Space Science and Technology</td>
<td>N/A</td>
<td>2/21/23</td>
<td>No</td>
<td>XX/216</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Highlighted in Yellow** = Cross-Divisional
- **Not solicited in ROSES22:** PSTAR
Proposal Pressure: Update

Percentage Change in Proposal Pressure from ROSES20

Average drop*
ROSES20 -> ROSES21
ROSES20 -> ROSES22

*: This excludes XRP

Please email me (Stephen.A.Rinehart@nasa.gov) and tell me why you are not proposing!
Proposal Pressure in NoDD (ROSES21)

Proposal Pressure for NoDD Programs

Relative Selection Rates for NoDD Programs

Avg. decrease for non-NoDD programs (ROSES 21)

Max. decrease for non-NoDD programs

This is the change in selection rates relative to ROSES20.
Beginning: some proposals languished while we waited for additional proposals.

Now: Time to notification is improving.

Original Goals: 50% of PIs notified in <150 days (at ~136 days now); 90% in <235 days (at ~208 days now).

(Better) Goal: 80% within 180 days – currently at 76%
Time to Notification: pre-NoDD and now

- ROSES21 (Due dates)
- ROSES20 (Due Dates)
- ROSES21 (NoDD)
- ROSES21 (all)
NoDD: Metrics for Success

Revised Metrics:
- Dispersion of proposal submission ✓
- Reduced Proposal Pressure ✓
- Time to Notification
- Proposal Quality ✓ (?)

Other factors:
- Community feedback
- PO Feedback
- Alternative models?

Data suggests that there is no substantial difference in the quality of selected proposals under NoDD
NoDD: Informal Feedback after 1 year

Community Feedback:
• The majority of feedback from the community has been very positive

Program Officer Feedback:
• NoDD is more work

Concerns:
• Low proposal pressure (but this is true for all programs)
• Time to notification

Reminder: We decided to do a three-year trial of NoDD, and we knew that the first year would be the toughest as everything transitions.
Reminder: DDAP has done an experiment that only requires proposers to identify a cost “bin” for their proposal – full budgets are only required if a proposal is being considered for selection.

Verbal feedback from both proposers and reviewers was very positive!

Program officers are positive as well.

But…

Michael New sent questions to the DDAP proposers and to the AORs: 17/36 PIs responded, as did 7/26 AORs:

- 65% of PIs said that they either had to or chose to do a full budget
- 29% of PIs said that they did not have to do a full budget
- All of the AORs said a full budget was required
Just-in-time Budgets: Thoughts

Based on the data, it appears that PIs save little time overall with just-in-time budgets. But, the data set is small, and it’s definitely too small to see correlations with different institutional types.

Opinion #1: This is a way to reduce a barrier to participation, and while there is no evidence that it does good, neither is there evidence that it does harm.

Opinion #2: PSD can offer ways to make proposing simpler, but we can’t make institutions take advantage of it. NASA can’t make institutions take advantage, but PIs can push for it within their organization.

DDAP is in year 2 of this experiment (proposals are in review), and we should continue tracking data.
**Planetary Science Enabling Facilities (C.17)**

- Intention is to solicit for PSEF on the even numbered ROSES years.
- In total, 25 Step-2 PSEF proposals were received and 10 facilities were selected.
- Selections are posted on [NSPIRES](https://science.nasa.gov/researchers/planetary-science-enabling-facilities) under this program element.
- Total costs of new selections for the 4-year cycle are expected to be ~$22M.
- Information regarding each facility in the form of a quad chart can be found here: [https://science.nasa.gov/researchers/planetary-science-enabling-facilities](https://science.nasa.gov/researchers/planetary-science-enabling-facilities).
- We know there have been a lot of changes to facilities and instrument requests over the recent years. A Frequently Asked Questions document is located on the facilities website and available directly here: [https://science.nasa.gov/science-pink/s3fs-public/atoms/files/Facilities%20FAQ_Updated%20January%202023.pdf](https://science.nasa.gov/science-pink/s3fs-public/atoms/files/Facilities%20FAQ_Updated%20January%202023.pdf)

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**Planetary Aeolian Laboratory (PAL)**
Haley Cummings, NASA Ames

**KEVION**
Cathy Dukes, U. Va.

**Facility for Astromaterials Research at JSC**
Justin Filiberto, NASA JSC
Timothy Hahn, NASA JSC

**Scanning Electron Microscope Facility**
Cyrus Goodrich, USRA/LPI

**UTCT**
Romy Hanna, UT Austin

**GSECARS Synchrotron Facility**
Tony Lanzirotti, U. Chicago

**RELAB**
Ralph Milliken, Brown

**Planetary Cloud Aerosol Research Facility**
Michael Pauken, JPL

**Kuiper Materials Imaging and Characterization Facility**
Tom Zega, U. Az
Reminders on ROSES 23

• No Due Date (NoDD) programs (open now!)
  • [https://science.nasa.gov/researchers/NoDD](https://science.nasa.gov/researchers/NoDD)

• Remember rules on duplicate proposals (see C.1)

• Compliance: We are checking and strictly enforcing compliance rules. Non-compliant proposals may be returned without review or be declined on this basis *regardless of intrinsic merit score from the panel.*
  • Please remember, compliance rules exist in part to ensure readability and accessibility.
  • New in ROSES-23: Note that all critical team members (Co-Is) must be registered in NSPIRES and confirm commitment there.
  • Compliance checking scripts are now available to all at: [https://github.com/nasa/ROSES-Compliance-Checking-Tools/blob/main/README.md](https://github.com/nasa/ROSES-Compliance-Checking-Tools/blob/main/README.md)
  • The scripts come with no guarantee!
Reminders on ROSES 23

- SPD-41a applies to all ROSES23 calls
  - Data Management Plans are now Open Science and Data Management Plans (OSDMP).
  - Planetary Data Ecosystem Update (next slide)
- Expanded list of Facilities are now included!
  - https://science.nasa.gov/researchers/planetary-science-enabling-facilities
  - This includes all PSEF facilities and some additional facilities that are or have been funded by PSD.
- (Small) expansion of the use of triage beyond NoDD programs (more on this in a few slides)
- All programs are moving to shared inboxes
  - (e.g. HQ-LARS@mail.nasa.gov)
- No data to report yet
Planetary Data Officer at Ames expected to be on-boarded in early summer 2023

Coming soon! PSD is finalizing its Division-level policy with expected release by the end of March 2023. Policy will provide additional guidance to planetary science community.

- PSD adds physical samples to its definition of “scientific information” therefore making it covered by the policy

"T" restored to PDART in ROSES 2023

- Includes information about long-term funding for maintenance of tools
- Encourages small scope projects
- Does not include workshops, but encourages submissions to TWSC

Other ROSES solicitations of relevance:

F.2 Topical Workshops, Symposia, and Conferences (TWSC), which can be used to support opportunities for trainings on use of planetary data and software.

F.7 Support for Open-Source Tools, Frameworks, and Libraries, which supports improvement and sustainment of high-value, open-source tools, frameworks, and libraries that have made significant impacts to the SMD science.

F.8 Supplemental Open Source Software Awards, which supports supplements to parent awards for the conversion of legacy software into modern code to be released under a generally accepted, open-source license.

F.15 High-Priority Open Source Science, which supports innovative open-source tools, software, frameworks, data formats, and libraries that will have a significant impact on the SMD science community.
Triage
Triage was included as part of the NoDD trial, and within NoDD has been working well

Why? An attempt to (modestly) reduce the burden on both reviewers and Program Officers (POs).

What is it?

• Proposals below the “Good” cutoff are not discussed in panel (exact cutoff can vary by program)
• Proposers get a “concatenated review” rather than a panel review
  • This consists of the individual comments from reviewers that went into scoring
  • Still reviewed by primary reviewer for clarity
  • Reviewed by PO
Reviews: Community Support

• The peer review process depends on community participation
• Virtual reviews are the norm and shall remain so for now
  • Some pros and cons of virtual review (partial list)

<table>
<thead>
<tr>
<th>Pro</th>
<th>Con</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation in reviews is more inclusive</td>
<td>Loss of networking opportunities</td>
</tr>
<tr>
<td>Reduced carbon footprint</td>
<td>“Distractions” of normal life still present</td>
</tr>
<tr>
<td>Reduced Cost to NASA</td>
<td>More work for POs (maybe not more time?)</td>
</tr>
<tr>
<td>Reduced time for reviewers</td>
<td></td>
</tr>
</tbody>
</table>

• There is no consensus on whether virtual or in-person is better
• But we can mitigate some of cons, e.g. “Distractions”
  • Reviewers need to be open and honest about time commitments with their PO and their group chief.
IDEA in SMD

New webpage with information and resources: https://science.nasa.gov/about-us/idea

SMD Inclusion, Diversity, Equity, Accessibility (IDEA) Strategic Priorities

01. Diverse Leadership + Career Growth
   - Expand entry pipelines, career advancement, and leadership access.

02. Internal Structures for IDEA
   - Develop a robust internal infrastructure to ensure synergy and alignment in IDEA implementation.

03. Inclusive Culture and Accessibility
   - Ensure that all SMD team members can meet the demands of their work and raise challenges. Promote accessibility in all applications.

04. Diverse and Inclusive Science Teams
   - Bring the community in to SMD to ensure NASA’s goal of building a science team reflecting the nation and living the Administration’s priorities.

05. Community Engagement and Inclusion
   - Strengthen and forge symbiotic relationships with historically excluded communities.
The R&A Program includes contributions from many different portfolios. Percentages are the approximate fraction of the wedge going to research.

FY21 Actual (Total: $2,693.2M)
- ~5%
- ~3%
- ~2%
- ~4%
- ~73%
- ~28%
- ~5%

FY22 Operating Plan* (Total: $3,120.4M)
- $484.3
- $283.7
- $331.8
- $265.0
- $653.2
- $166.0
- $148.6
- $309.0

FY23 Request (Total: $3,160.2M)
- $478.4
- $233.9
- $230.0
- $166.3
- $356.8
- $486.3
- $822.3
- $298.6

Reminder!
The Planetary R&A Portfolio lives here.
People

Changes in PSD’s R&A Team:

- **Departures:**
  - Doris Daou on detail to Astrophysics Division (APD) for a year
  - Lucas Paganini hired as a Program Executive by APD
  - Melissa Morris hired as a Program Executive by PSD
  - Adriana Ocampo retired
  - Aaron Burton finished his detail
  - Catherine Walker finished her NPMP Fellowship

- **Arrivals**
  - Nick Lang (IPA)
  - KC Hansen
  - Curtis Williams
  - David Smith (transferred from Ames)
  - Shahid Aslam started a 50% time detail (from GSFC)
  - Joseluis Chavez started a 50% time detail (from KSC)
THANK YOU!
Divider Slide