Coming soon!
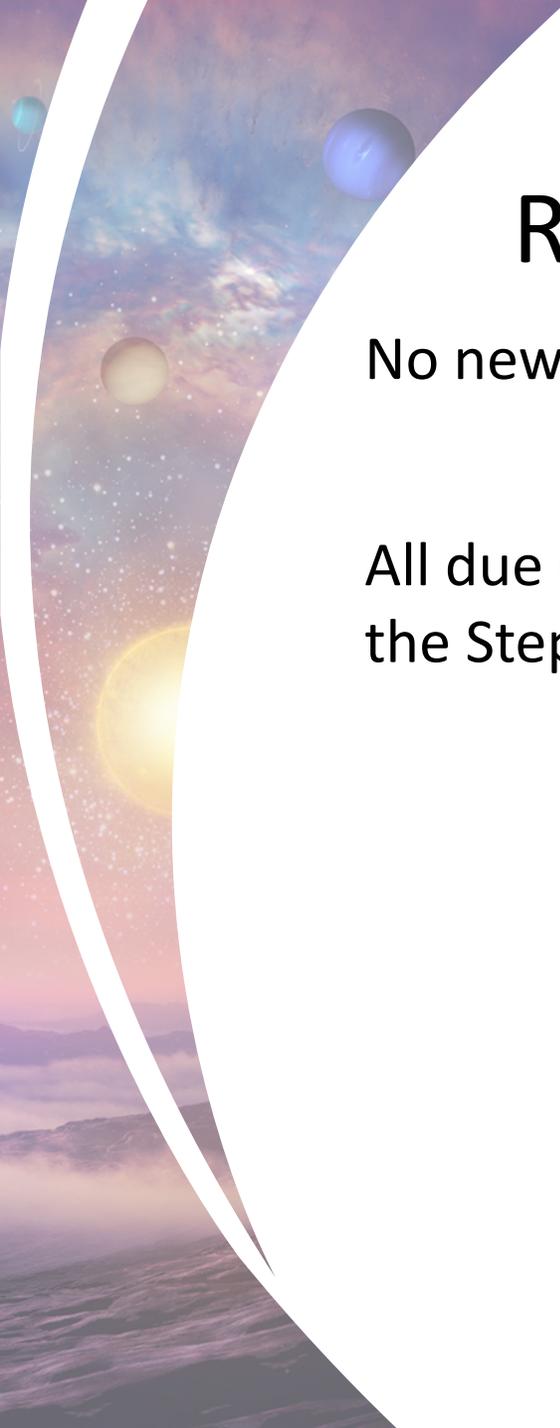
As is the case every spring, expect to see two letters soon:

- Call for people interested in working at HQ either as an IPA or on a detail

- Call for nominations for new PAC members. We're particularly interested in members with expertise in habitability and in sample science
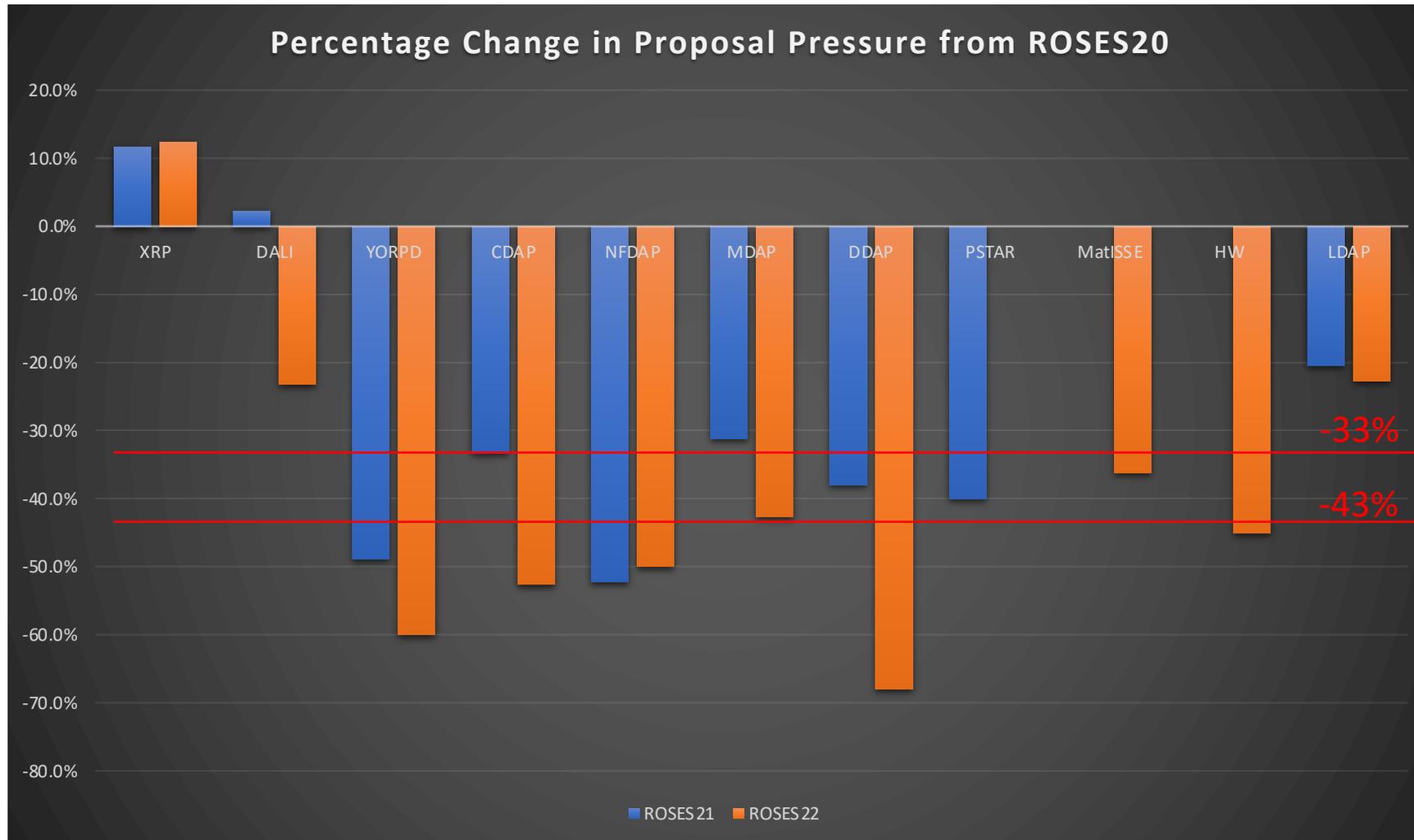 - All PAC member's terms have been extended by 3 months so new terms can start on January 1.

ROSES-22 Notes

No new news!

All due dates, with the exception of Artemis III Geology Team, are now past (and the Step-1 proposals for that were due last week).

Planetary Science Division ROSES 22 Programs	Step-1 Due Date	Step-2 Due Date	Panels Held	Selections/ Proposals	Selection Dates	Days from Step-2 to Select
Exoplanets Research Program	03/31/2022	05/26/2022	Yes	30/173 (17%)	08/30/2022	96
Maturation of Instruments for Solar System Exploration	04/06/2022	07/14/2022	Yes	5/37 (14%)	10/20/22	98
Planetary Science Enabling Facilities	04/08/2022	06/03/2022	Yes	10/25 (40%)	10/31/22	150
Development and Advancement of Lunar Instrumentation	04/13/2022	06/15/2022	Yes	5/33 (15%)		Imminent
Yearly Opportunities for Research in Planetary Defense	04/21/2022	06/16/2022	Yes	8/17 (47%)	12/2/22	169
Cassini Data Analysis Program[1]	05/05/2022	07/07/2022	Yes	8/27 (30%)	0/26/22	81
Martian Moons eXploration Participating Scientist Program	06/16/2022	08/16/2022	Yes	XX/49	Delayed for coordination with JAXA	
Planetary Protection Research	06/21/2022	07/20/2022	Yes	5/15 (33%)	12/20/22	153
Discovery Data Analysis[1]	09/06/2022	11/01/2022	Yes	XX/16		
New Frontiers Data Analysis Program[1]	09/07/22	11/3/2022	Yes	9/22 (41%)	2/13/23	102
Mars Data Analysis[1]	09/07/2022	11/15/2022	No	XX/55		
Analog Activities to Support Artemis Lunar Operations	N/A	12/06/2022	Yes	13/33 (39%)		
Planetary Science Early Career Award	N/A	12/08/2022	Yes	XX/33		
Apollo Next Generation Sample Analysis Program	10/17/2022	01/19/2023	No	XX/7		
Precursor Science Investigations for Europa	11/01/2022	12/16/2022	No	XX/28		
Interdisciplinary Consortia for Astrobiology Research	09/15/2022	01/20/2023	No	XX/28		
Habitable Worlds[1]	11/08/2022	02/03/2023	No	XX/39		
Lunar Data Analysis[1]	12/1/2022	02/23/2023	No	XX/34		
Artemis III Geology Team	2/24/23	4/25/23				
Future Investigators in NASA Earth and Space Science and Technology	N/A	2/21/23	No	XX/		

- Highlighted in Yellow = Cross-Divisional
- Not solicited in ROSES22: PSTAR

4

Proposal Pressure: Due Date Programs
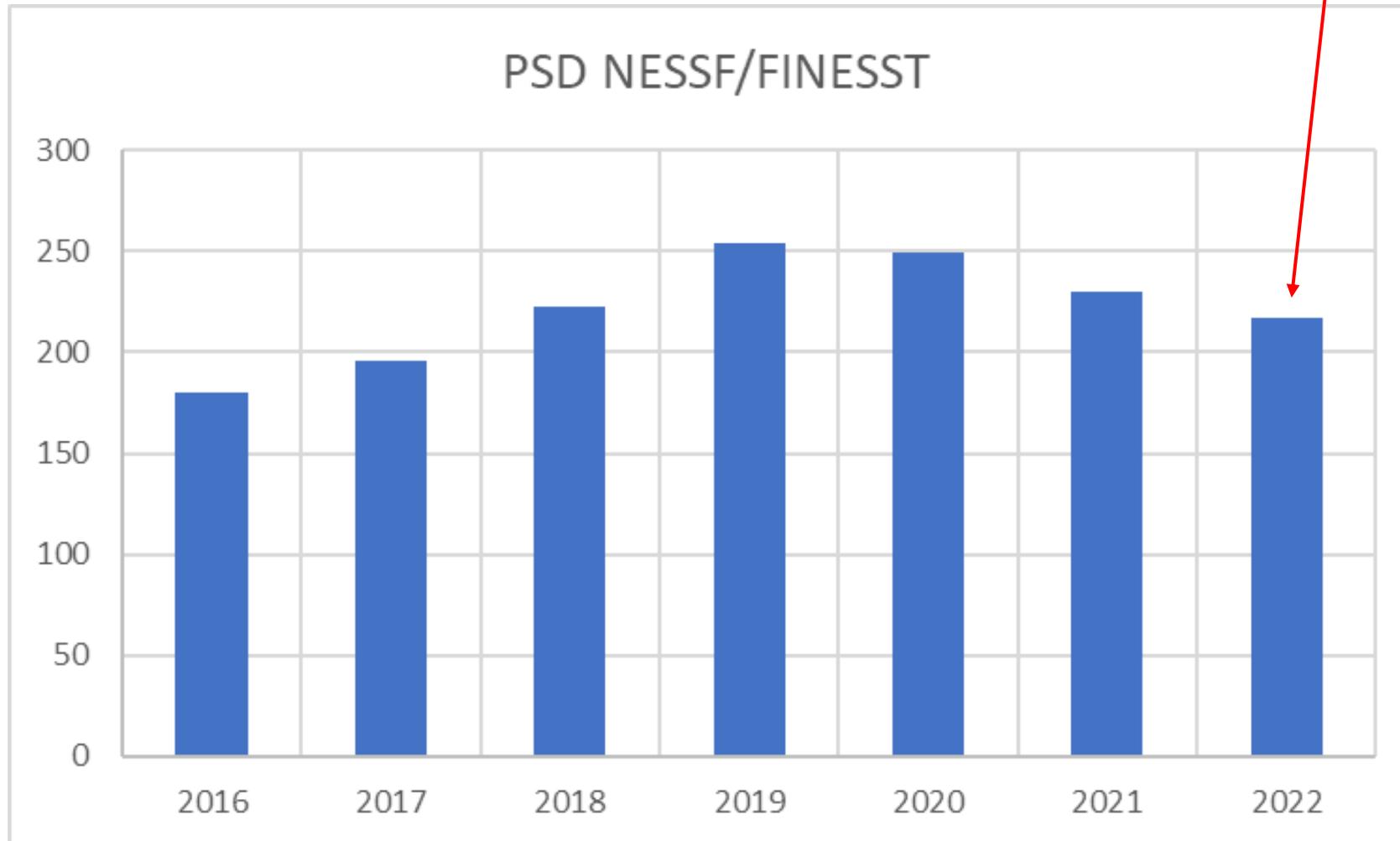

Percentage Change in Proposal Pressure from ROSES20

Average drop*
ROSES20 -> ROSES2   **-33%**

ROSES20 -> ROSES22   **-43%**

*: This excludes XRP

Please email me (Stephen.A.Rinehart@nasa.gov) and tell me why **you** are not proposing!

FINESST

~216 proposals submitted to planetary this year (last year was 230)

NoDD programs: Starting Year 3

Starting to plan for the review of NoDD: Metrics

Original Metrics:
Dispersion of proposal submission
Reduced Proposal Pressure

Other factors:
Community feedback
PO Feedback

Revised Metrics:
✓ Dispersion of proposal submission
✓ Reduced Proposal Pressure
Time to Notification
Proposal Quality

Other factors:
Community feedback
PO Feedback
Alternative models?

PAC Advice Requested: Do these sound like a reasonable (and reasonably complete) set of considerations? Are there other factors that should be considered?

ROSES23: Notes

- SPD-41a applies to all ROSES23 calls
  - Data Management Plans are now Open Science and Data Management Plans (OSDMP).
  - Supplemental information on PSD's plans for OSDMPs will be made available sometime in March

- 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

- All programs are moving to shared inboxes (e.g. HQ-LARS@mail.nasa.gov)

- No data to report yet

Reminders on ROSES 23

- No Due Date (NoDD) programs (open now!)
  - 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
    - The scripts come with no guarantee!

Just-in-time Budgets: Feedback

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.
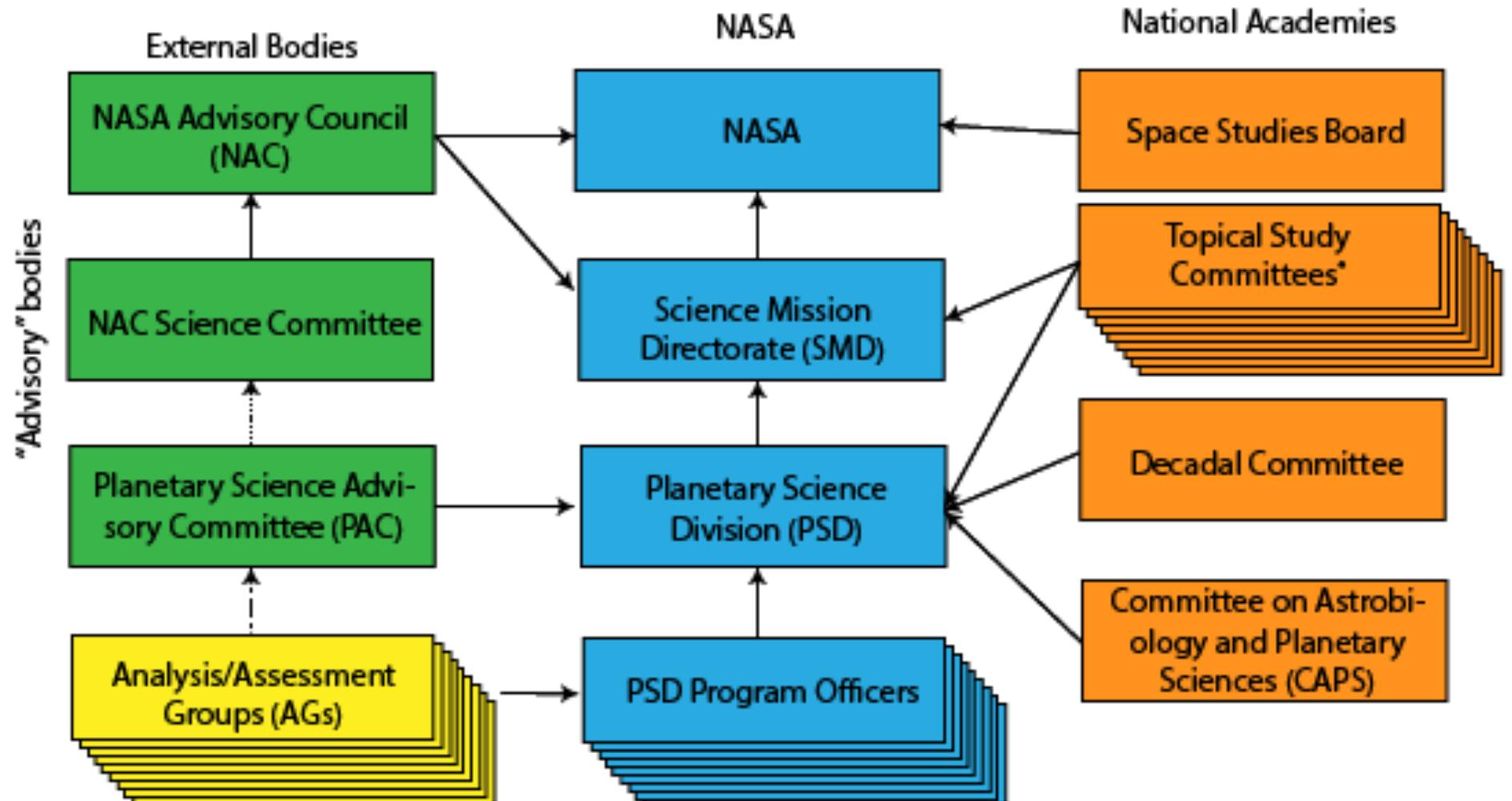
AG Working Groups

From the PAC 101
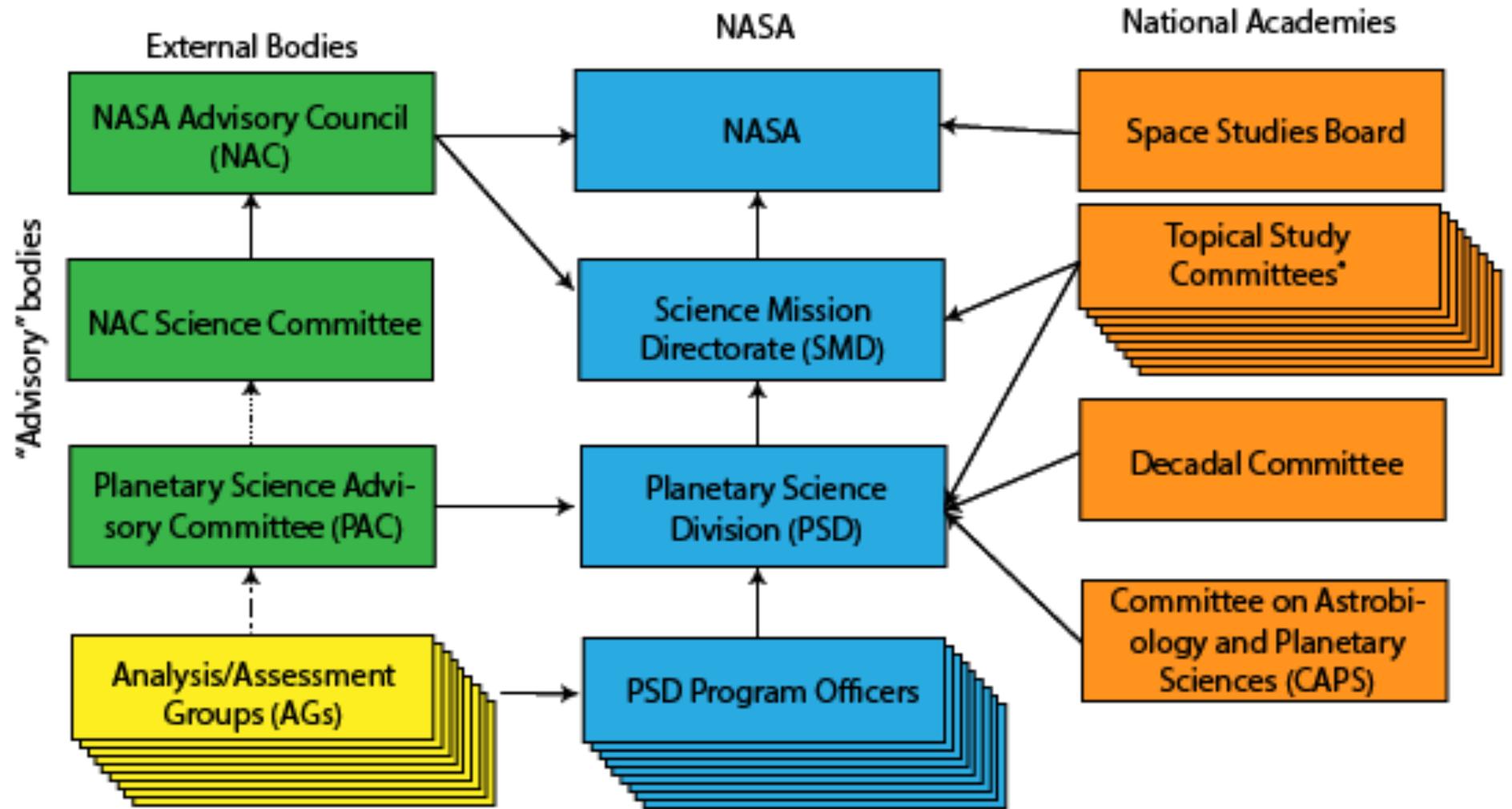
*Topical Study Committees: These can be either standing committees, such as the Committee on Planetary Protection, or narrow-focus committees established for a single topical report (e.g., "Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis.").

AG Working Groups
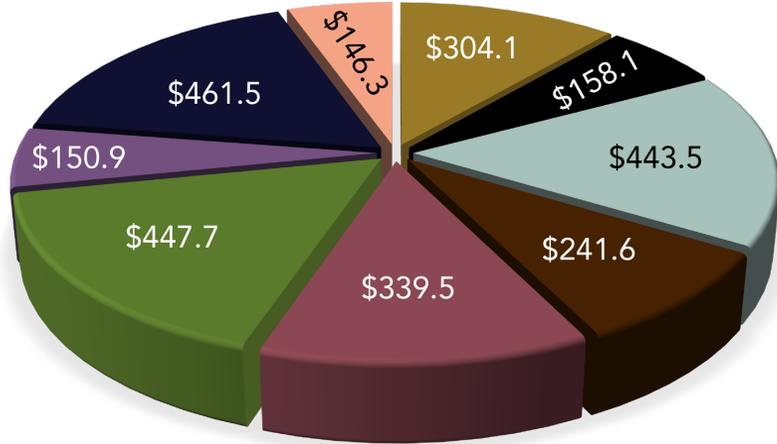
AG Working Groups (II)

- Should have a clear charter -- why did the AG(s) feel that the WG was needed and what is its specific purpose?
  - Does it have a natural end date?

- Should report through the AG(s) that sponsored them. This:
  - ensures that the WG is being responsive to the needs/desires of the AG
  - Promotes additional awareness of issues being pursued by the WG
  - Helps build a larger base of support for WG actions/findings

- *May* be asked to present at the PAC if there is a particularly timely reason but will not generally be asked to do so.
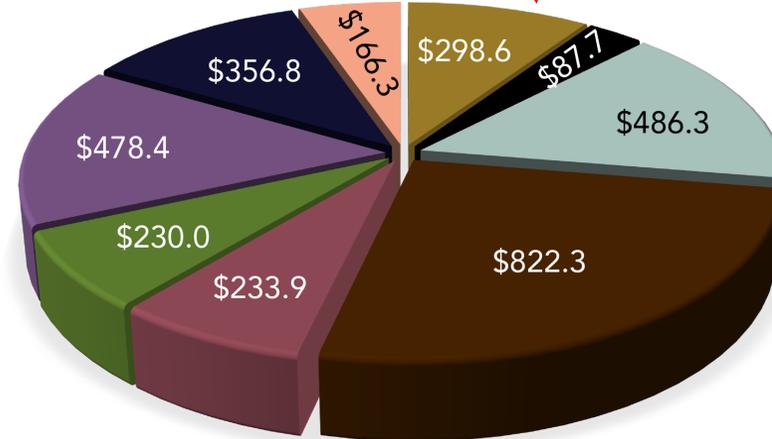
PSD Budget Breakdown
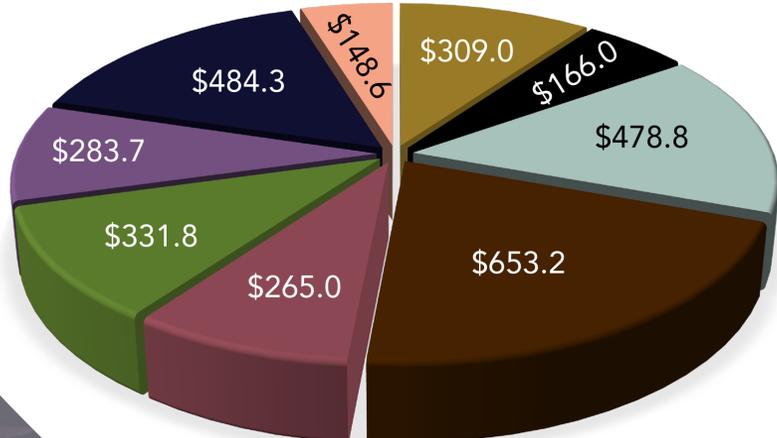

FY21 Actual (Total: $2,693.2M)

FY23 Request (Total: $3,160.2M)

FY22 Operating Plan* (Total: $3,120.4M)

The Planetary R&A Portfolio lives here

Reminder! The R&A Program includes contributions from many different portfolios

Legend:
- Planetary Science Research/Other
- Planetary Defense
- Lunar Discovery and Exploration
- Mars Sample Return
- Mars Exploration
- Discovery
- New Frontiers
- Outer Planets & Ocean Worlds
- Radioisotope Power

FY21 Actual values: $304.1, $158.1, $443.5, $241.6, $339.5, $447.7, $150.9, $461.5, $146.3

FY23 Request values: $298.6, $87.7, $486.3, $822.3, $233.9, $230.0, $478.4, $356.8, $166.3

FY22 Operating Plan values: $309.0, $166.0, $478.8, $653.2, $265.0, $331.8, $283.7, $484.3, $148.6

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Review Process

Reviews: Community Support

- The peer review process depends on community participation

- Virtual reviews are the norm and shall remain so for now
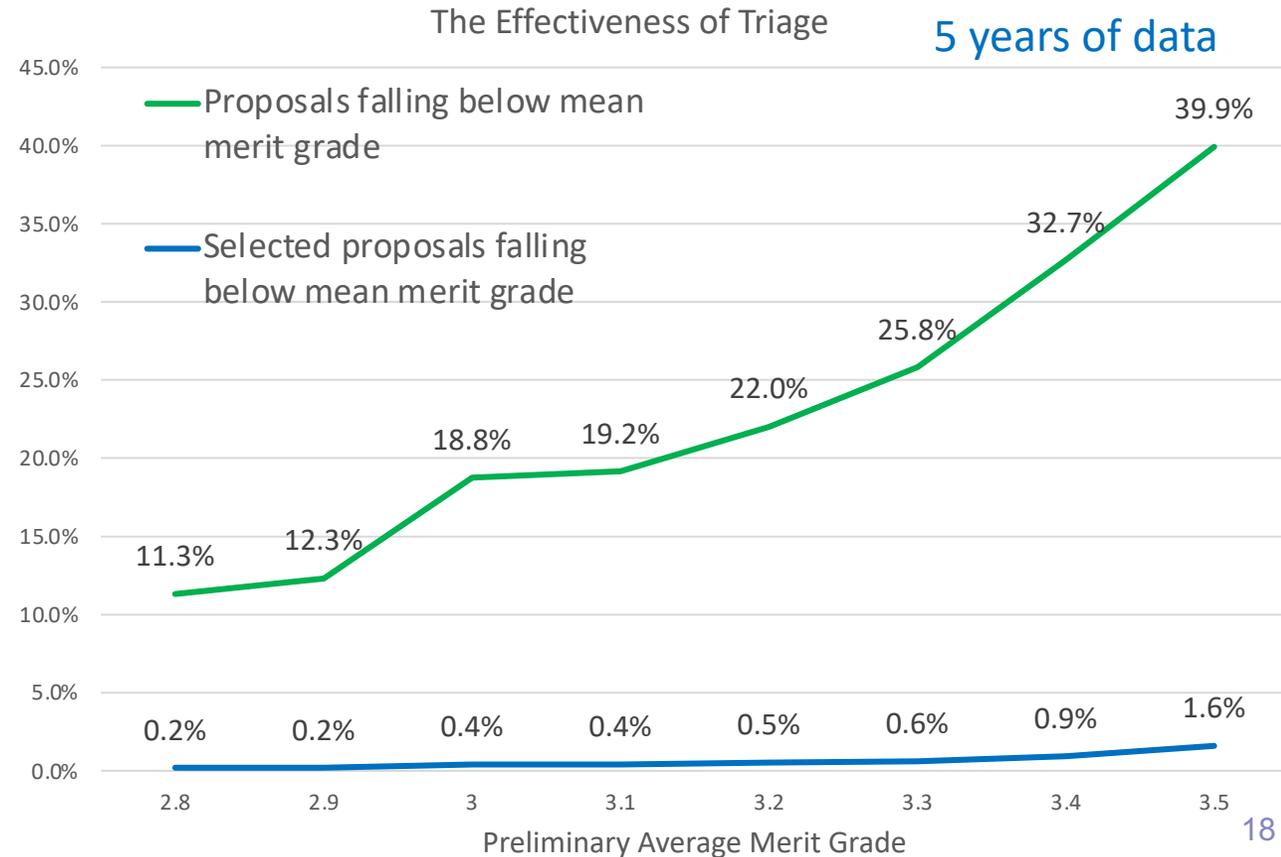 - Some pros and cons of virtual review (partial list)

Pro	Con
Participation in reviews is more inclusive	Loss of networking opportunities
Reduced carbon footprint	"Distractions" of normal life still present
Reduced Cost to NASA	More work for POs (maybe not more time?)
Reduced time for reviewers	

- 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.

Triage

Triage has been used before within SMD (e.g. for Hubble and JWST GO proposals, FINESST)

- Proposals below the "Good" cutoff are not discussed in panel
- 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

The Effectiveness of Triage

5 years of data

- Proposals falling below mean merit grade
- Selected proposals falling below mean merit grade

Green line (Proposals falling below mean merit grade): 11.3%, 12.3%, 18.8%, 19.2%, 22.0%, 25.8%, 32.7%, 39.9%

Blue line (Selected proposals falling below mean merit grade): 0.2%, 0.2%, 0.4%, 0.4%, 0.5%, 0.6%, 0.9%, 1.6%

Preliminary Average Merit Grade: 2.8, 2.9, 3, 3.1, 3.2, 3.3, 3.4, 3.5

Backup Slides