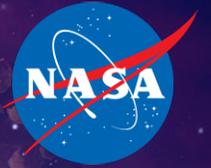


National Aeronautics and
Space Administration



EXPLORE SOLAR SYSTEM & BEYOND

Dr. Stephen Rinehart
Director, Planetary Research Programs

PAC Meeting
March 2, 2021

Planetary Science Division - ROSES 20

ROSES 20 - Program Name	Step-1 Due Date	Step-2 Due Date	Panels Held	Selections/ Proposals	Selection Dates	Days from Step-2 to Select
Exobiology (EXOB)	04/22/2020	05/22/2020	Yes	23/156 (15%)	10/20/2020	151
Exoplanets Research	03/27/2020	05/29/2020	Yes	26/153 (17%)	11/9/2020	164
Emerging Worlds (EW)	04/17/2020	06/01/2020	Yes	20/125 (16%)	11/19/2020	171
Solar System Observations (SSO)	04/22/2020	06/17/2020	Yes	11/47 (23%)	9/10/2020	85
Yearly Opportunities for Research in Planetary Defense (YORPD)	04/22/2020	06/17/2020	Yes	9/45 (20%)	10/26/2020	131
Cassini Data Analysis (CDAP)	05/07/2020	07/09/2020	Yes	13/57 (23%)	9/28/2020	81
Development and Advancement of Lunar Instrumentation (DALI) Program	04/17/2020	07/10/2020	Yes	5/43 (12%)	12/1/2020	144
Laboratory Analysis of Returned Samples (LARS)	05/15/2020	07/14/2020	Yes	6/30 (20%)	1/15/2021	185
Maturation of Instruments for Solar System Exploration (MatISSE)	04/17/2020	07/17/2020	Yes	5/58 (9%)	12/3/2020	139
Planetary Data Archiving, Restoration, and Tools (PDART)	05/15/2020	07/24/2020	Yes	XX/132	TBD	
Double Asteroid Redirection Test (DART) Participating Scientist Program	08/10/2020	10/01/2020	No	XX/19	TBD	
Discovery Data Analysis (DDAP)	08/28/2020	10/30/2020	No	XX/50	TBD	
New Frontiers Data Analysis	09/03/2020	11/05/2020	Yes	14/44 (32%)	TBD	
Mars Data Analysis (MDAP)	09/25/2020	11/20/2020	No	XX/96	TBD	
Planetary Instrument Concepts for the Advancement of Solar System Observations (PICASSO)	09/18/2020	11/20/2020	No	XX/94	TBD	
Planetary Science Early Career Award Program	N/A	12/08/2020	Yes	XX/45	TBD	
Habitable Worlds (HW)	11/17/2020	01/15/2021	No	XX/71	TBD	
Solar System Workings (SSW)	11/13/2020	01/29/2021	No	XX/253	TBD	
Lunar Data Analysis (LDAP)	12/01/2020	02/26/2021				
Early Career Fellowship Start-Up Program for Named Fellows	09/01/2020	03/29/2021				

Updates on ROSES 21

- ROSES21 is out now!
 - Dual-Anonymous Peer Review for all Data Analysis Programs (DAPs)
 - No Due Date (NoDD) programs (open now!)
 - <https://science.nasa.gov/researchers/NoDD>
- Duplicate proposals
 - No proposal can be submitted to more than one program in the same ROSES year; nor may it be submitted if it is currently under consideration by another program covered by C.1
 - For NoDD programs: No proposal can be submitted to any NoDD program if it was previously submitted within the past year (12 months)

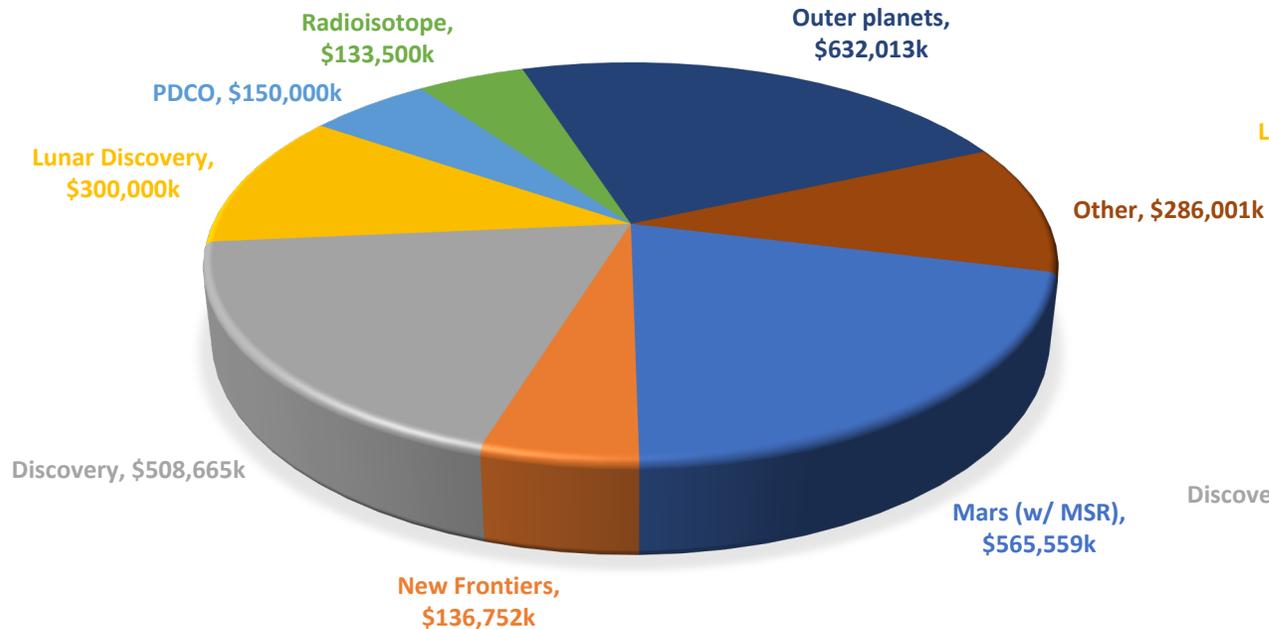
Other updates

- LPSC
 - LPSC is virtual this year, and the PSD events will be a little different than before:
 - PSD Town Hall (NASA Night)
 - Multiple short presentations
 - “Meet your Program Officer” events during the breaks each day
- Things we’ve discussed before:
 - Compliance: We are continuing to move towards strict compliance checking.
 - We are concerned about post-grant data archiving, publication archiving, etc. (I’ll come back to this)

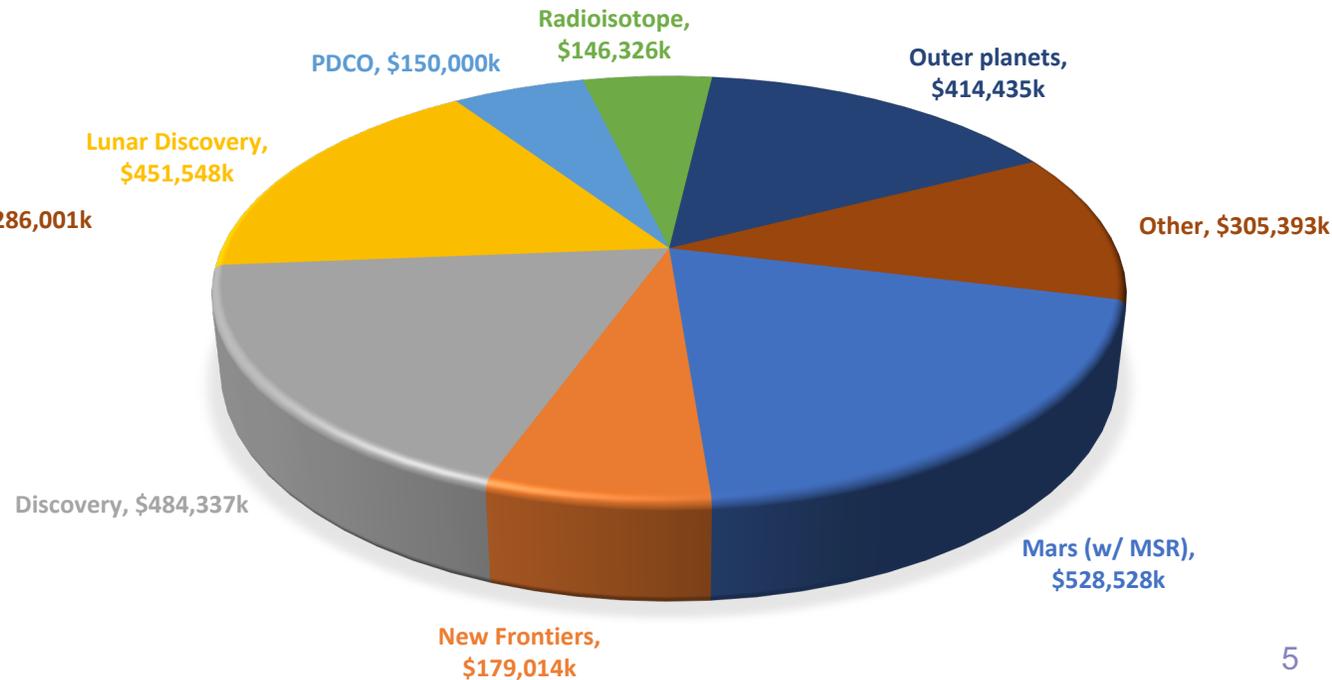
Budget for FY21

NASA's FY21 Appropriation has been passed: HQ is working on developing an operating plan now.

FY20 PSD BUDGET



FY21 PRESIDENT'S BUDGET REQUEST



COVID Augmentations

- We are still receiving additional augmentation requests.
 - A significant number of requests are not eligible, mostly due to large uncosted numbers.
 - Eligible, highest-priority requests have been approved
 - Other eligible requests are being held aside until we see how many additional requests come in.

Sidebar on Uncosted

What do these terms mean?

- Committed: we have a plan to spend it (set aside \$XX to buy Widget) – but we can still change our mind.
- Obligated: we are spending it (we placed a purchase order for Widget)
- Costed: we spent it (the Widget was received, and we paid the bill)

DAPR

Habitable Worlds proposals are in and we've started the review process. Some notes:

- Several proposals were returned without review because of egregious violations of DAPR protocols
- Numerous other DAPR non-compliances were observed; PIs will be “warned”, but the proposals will continue through review this year (next year, though....). Most common issues:
 - Failure to follow the reference numbering scheme laid out for DAPR
 - Accidental inclusion of names (inconsistently): (e.g. in one place in the proposal, it says “Co-I XX”, while elsewhere it says “A co-I” or similar).



Changes to the AGs

- The Terms of Reference (ToR) for each of the Planetary Advisory Groups (PAGs) has been updated. All of them followed a similar model in an attempt to provide greater consistency.
- Historically, PSD has provided funding support for the PAGs to cover some expenses such as meeting organization, travel for early career scientists, etc. But the mechanism for doing this was different for each PAG; we are trying to normalize this.
 - Seeking proposals through TWSC to provide support for **all** of the PAGs. This will include a small amount of funding support for the PAG Chairs.



Questions for the PAC

PAC = Planetary Science Advisory Committee

After the last PAC meeting, we thought it would be good to actually **ask** for advice on some specific things. We probably don't have time to discuss all of these in details this time, but...

- We seek discussion/comments/advice from the PAC on 3 questions:
 - What should be the programmatic response to low selection rates?
 - How do we encourage post-award compliances?
 - How do we further incentivize service?



Low Selection Rates: Problem

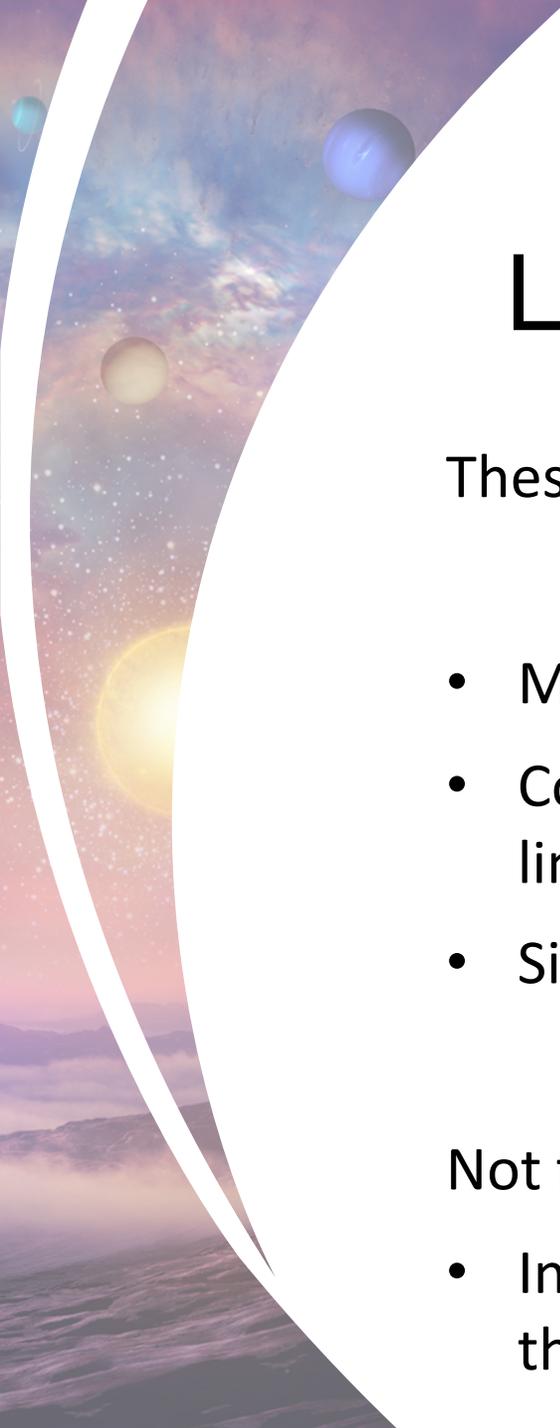
Some programs have had, in recent years, relatively low selection rates.

To first order, Selection Rate = (Funding Available)/(Funding Requested)

We are striving to protect and grow the numerator.

The denominator comes from the community: we have no control over that.

Concern: When selection rates get very low (below 10%), there is a lot of work going into proposals (and into **really good** proposals) that NASA cannot afford to fund. In these situations, what can we do to help the community?



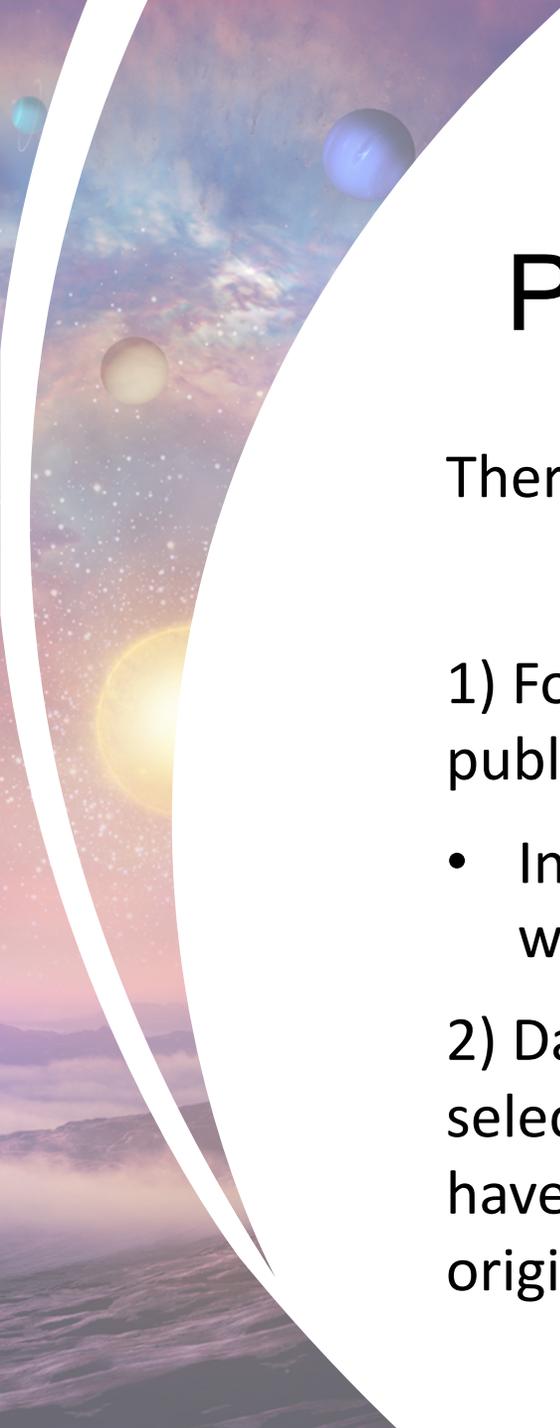
Low Selection Rates: Options

These are some options we've considered – there may be others

- Move program to a biannual cadence.
- Continue annual cadence but narrow the program scope in each year to limit the pool, rotating scope each year.
- Simply accept a low selection rate

Not for consideration:

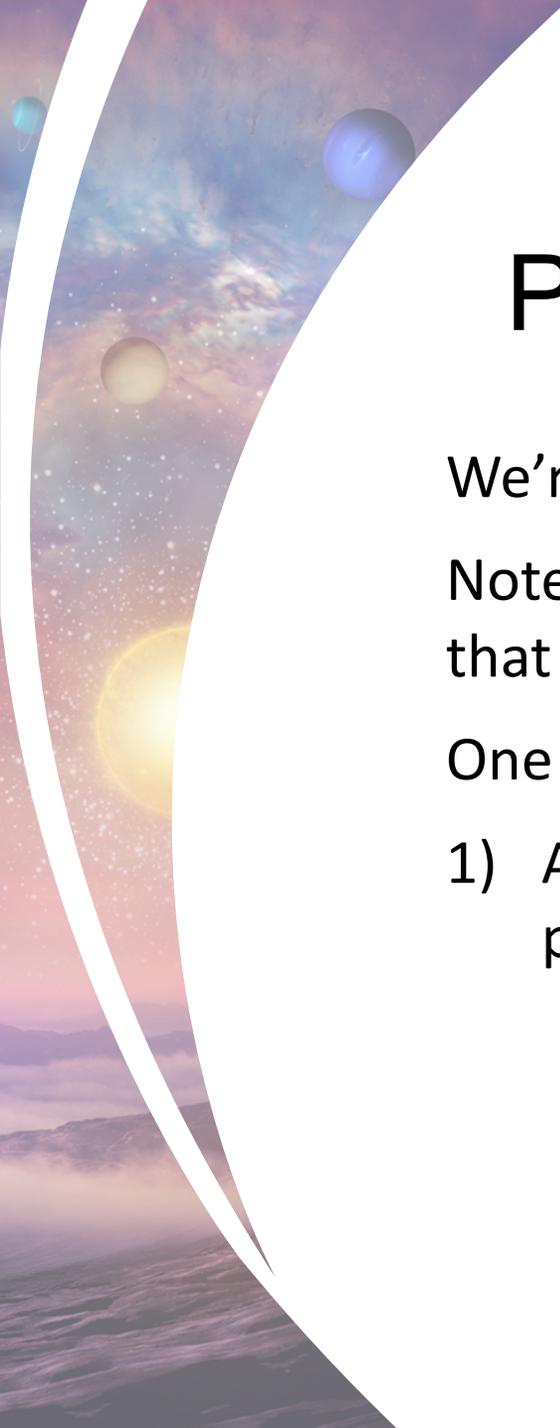
- Increasing program funding. This is obvious, and if it could be done (in the context of the larger R&A program) we would do it.



Post-Grant Compliance: Problem

There are two components to this:

- 1) Following guidance from the Office of Science and Technology Policy, all publications resulting from NASA funding are to be archived in PubSpace.
 - In a limited survey of one program, more than half of the grant-holders were not aware of the requirement
- 2) Data Management Plans (DMPs) are required for all proposals prior to selection; we read annual reports, but once a final report is submitted, we have no way to know if any extant data gets properly archived (as per the original DMP).



Post-Grant Compliance: Options (?)

We're open to any suggestions...

Note that this also is identified as an issue at a higher level, so it's possible that direction will come down to us.

One possibility:

- 1) Additional post-grant reporting? Continued reporting until all funded papers/data are properly archived.



Service Incentivization: Problem

How can we incentivize service? In particular, service on review panels, but also more generally?

Some members of the community are fantastic about volunteering to serve on panels and do an excellent job. Others never agree to serve. What barriers keep people from serving on review panels?



Backup Slides

