

2020 DPS Workforce Survey Results

DPS Members Meeting

28 October 2020

The results presented here represent a subsection of results from the Survey; the full report from AIP will be posted later in 2020.

See also DPS iPosters by Edgard Rivera-Valentin (502.07) and
Hendrix & Rathbun (502.02)

Previous DPS Member Surveys

- General Membership surveys 1989, 1995, 2005, 2010
 - Meeting format survey 1999
 - Triple session survey 2006
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- All results posted on DPS website: <https://dps.aas.org/reports>

The 2020 DPS Planetary Workforce Survey

- The 2020 DPS survey was sent to 4,965 members of the planetary science community on April 16th, 2020.
- Two additional follow-up survey invitations were sent on April 22nd and April 28th.
- We received 2,367 responses (48% response rate).
- 895 (38%) of those respondents were members of the DPS.
- In 2010, DPS survey sent to 1290 people, 510 responded

Demographics – Gender Identity

The number of members who identify as women has risen by 15% in the last 10 years

(from 2010 presentation)

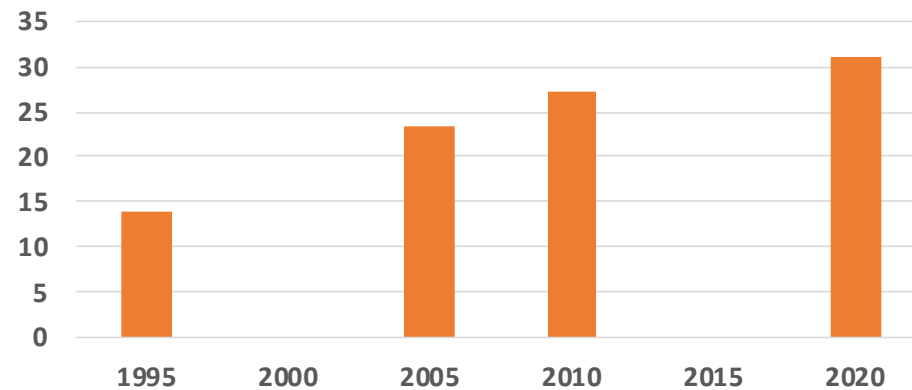
Demographics - Age and Gender

	Age					Gender	
	<30	31-40	41-50	51-60	>60	% Male	% Female
1995	11	26	25	24	13	86.1	13.9
2005	13	27	25	21	14	76.5	23.5
2010	13	26	22	22	17	72.9	27.1

Percentage of respondents.

The overall number of female members has doubled in the past 15 years

DPS Members: % who identify as women



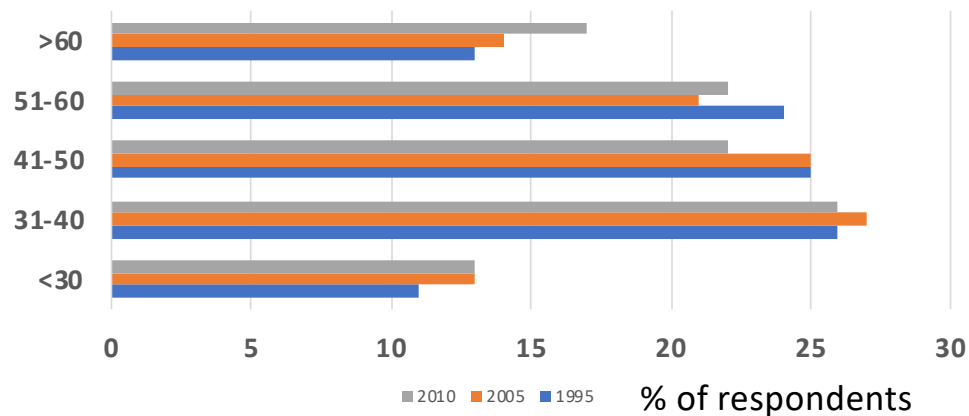
Gender Identity of Members of the Division for Planetary Sciences

Women	31%
Men	66%
Another gender identity	1%
Prefer not to respond	2%

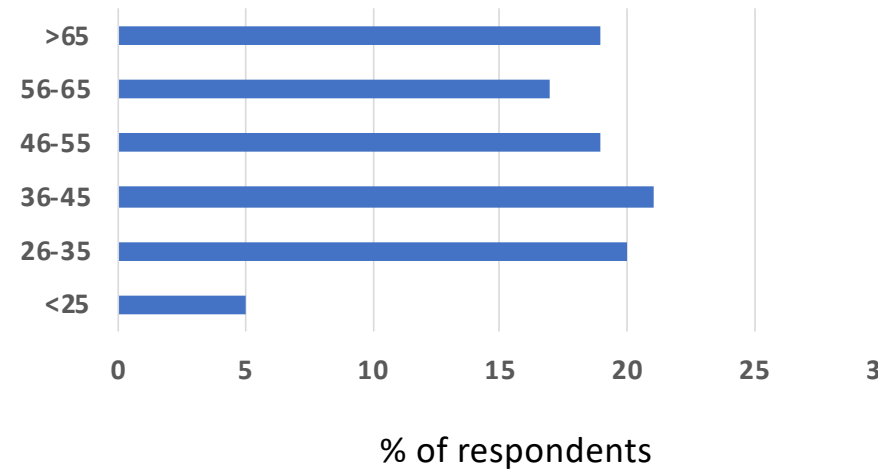
Among all respondents: 36% women, 60% male

Demographics – Age

ages: 1995, 2005, 2010



ages: 2020



(from 2010 presentation)

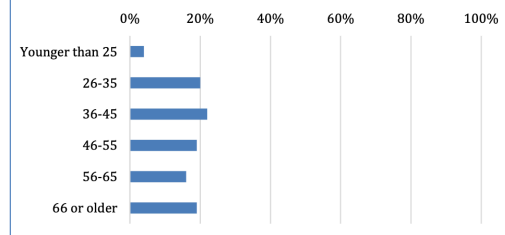
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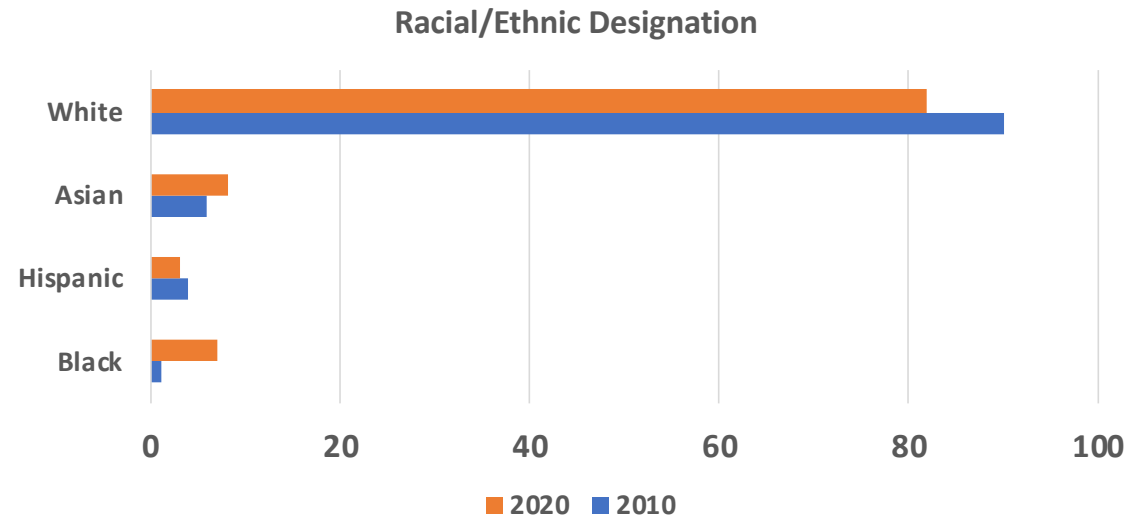
Percentage of respondents.

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Ages of Members of the Division for Planetary Sciences



Demographics – Race/Ethnicity



(from 2010 presentation)

Question 34. What is your race/ethnicity? Check all that apply.

White	90%
Black or African American	1%
Asian	6%
Hispanic/Latino/Spanish	4%
Other	2%

(from 2020 survey)

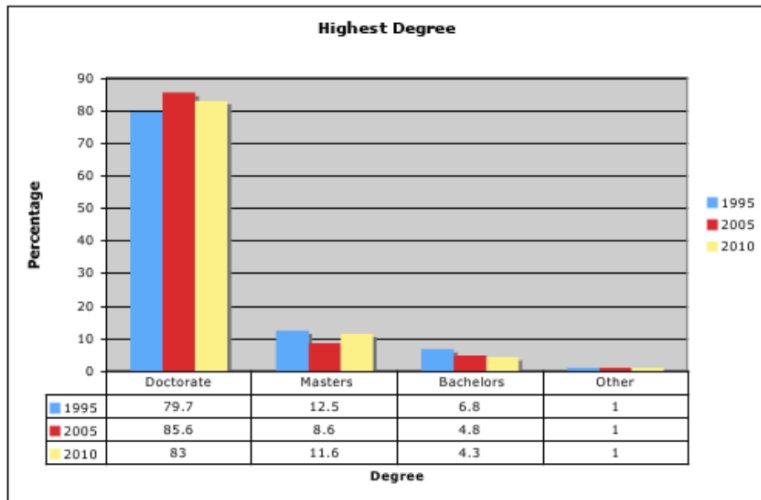
Race and Ethnicity of Members of the Division for Planetary Sciences	
Underrepresented Groups in Astronomy	
Black, African American, or Other Race/Ethnicity*	7%
Hispanic or Latinx	3%
Not Underrepresented in Astronomy	
Asian or Asian American	8%
White	82%

*Other Race/Ethnicity included respondents who are Native American/Alaska Native, Native Hawaiian/Other Pacific Islander, or wrote in another race/ethnicity. These groups were too small to report separately and were combined for analysis.

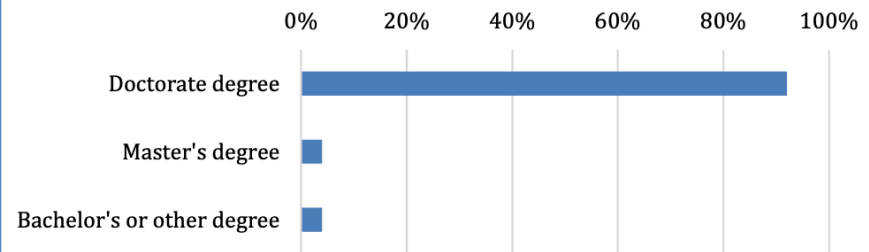
Education – Highest Degree

Out of the 895 DPS respondents, 124 (14%) were students at the time of the survey. Almost all of these students intended to pursue a Doctorate or PhD (96%) at some point in their academic career, and only a small percentage (4%) intended to pursue a Master's as their highest degree. For non-students in the survey, the highest earned degree was overwhelmingly a Doctorate or PhD.

(from 2010 presentation)



Highest Degree Earned by Members of the Division for Planetary Sciences



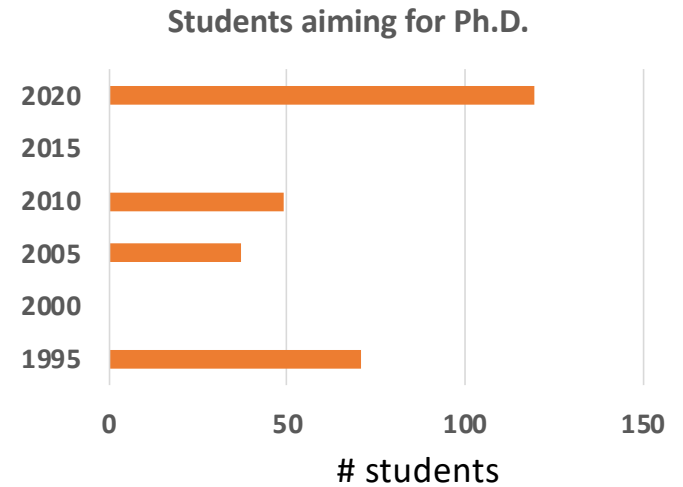
Results do not include students.

Education - Goals

If still a student, what is your current degree goal? (number of respondents)

	1995	2005	2010
Doctorate	71	37	49
Masters	4	0	3
Bachelors	0	0	2

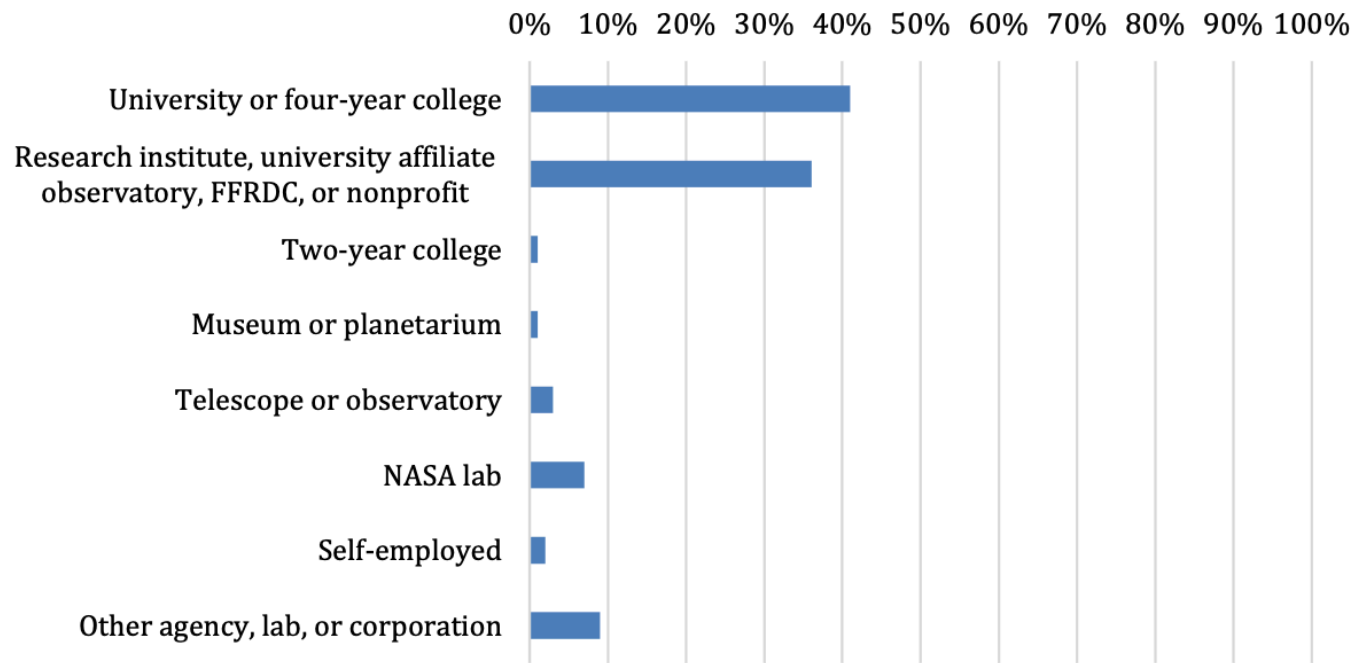
2020
119
5



(from 2020 survey)

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Employment Sector of Members of the Division for Planetary Sciences












FFRDC=Federally funded research and development center. Results do not include students.

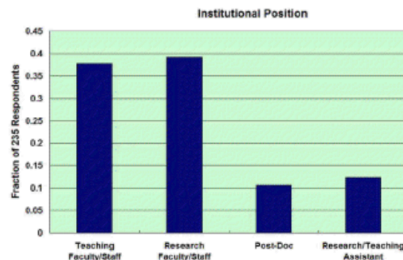
Careers

(from 2010 presentation)

Careers

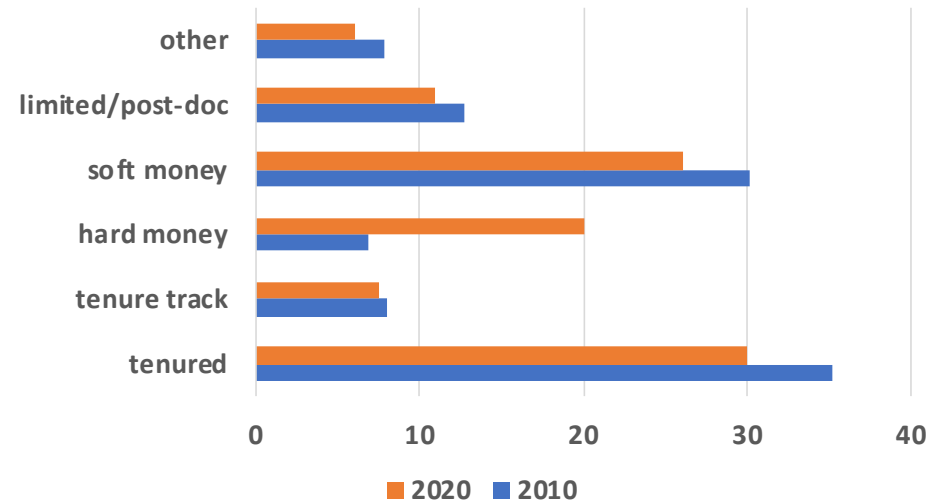
6. Which best describes your position?

		Response Percent	Response Count
Tenured or tenured-equivalent (civil servant, senior researcher)		31.7%	159
Tenure-track or equivalent		7.2%	36
Hard Money / permanent		6.2%	31
Soft Money		27.1%	136
Limited Term / Post-doc		11.4%	57
Student		9.6%	48
Freelance		1.8%	9
Not currently employed		1.0%	5
None of the above		4.2%	21

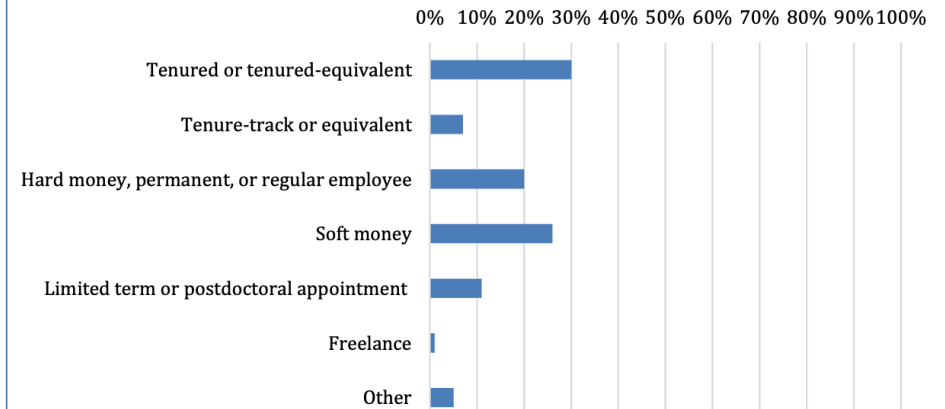


Large part of Community on Soft Money

From 2005 Survey



Position Held by Members of the Division for Planetary Sciences

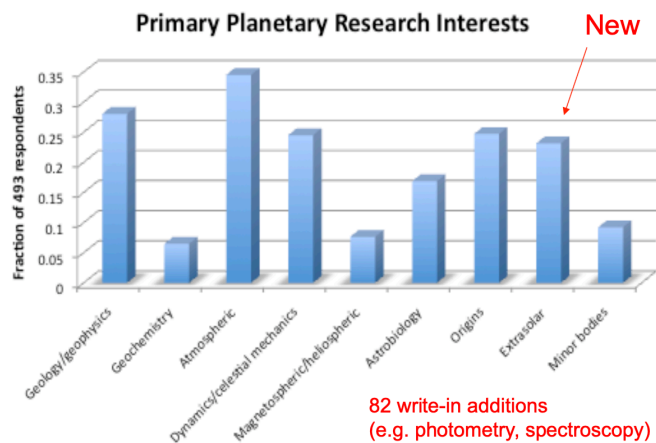


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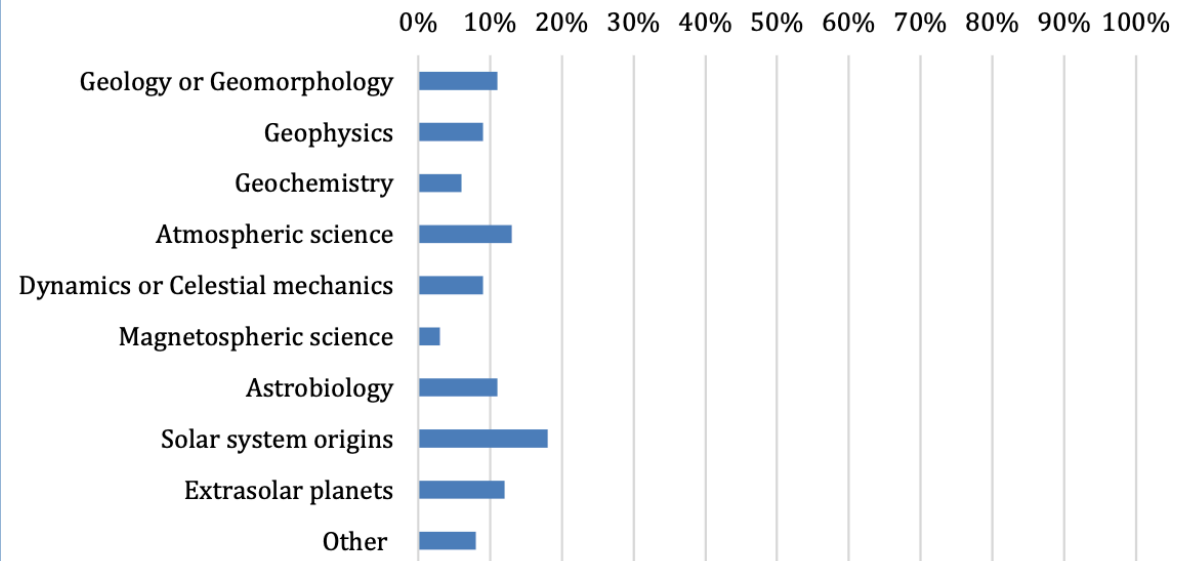
Research Interests

(from 2010 survey)

We have diverse planetary research interests



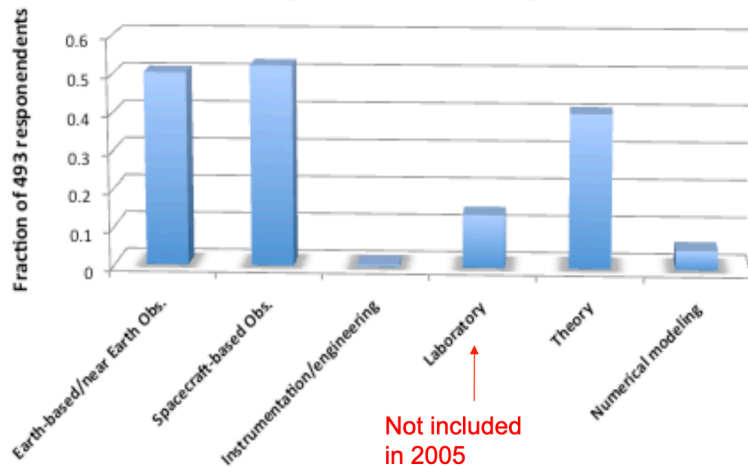
Primary Research Interest of Members of the Division for Planetary Sciences



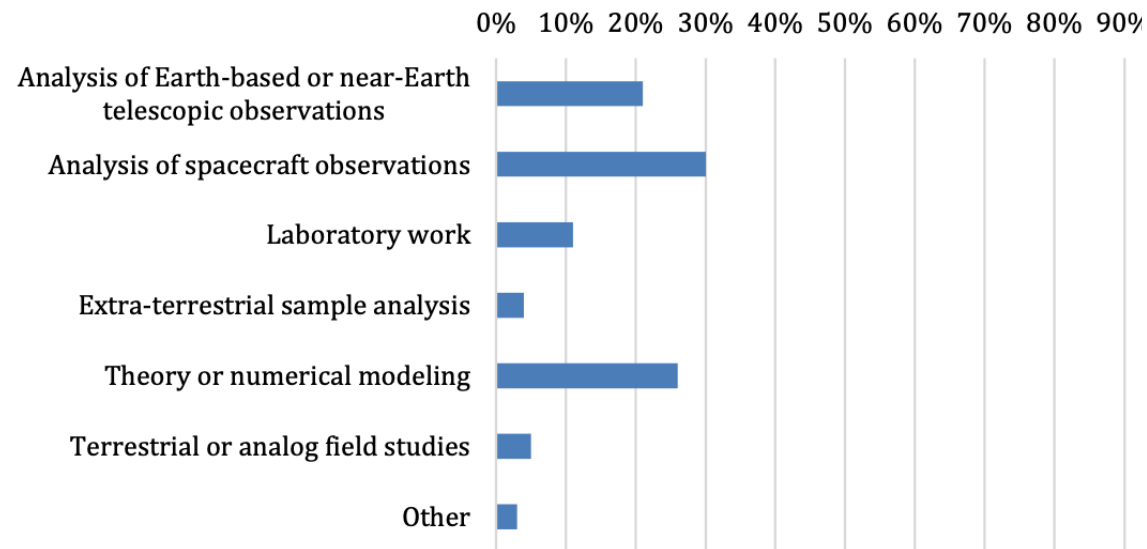
Research Techniques

(from 2010 survey)

Primary Research Techniques



Primary Research Technique Used by Members of the Division for Planetary Sciences



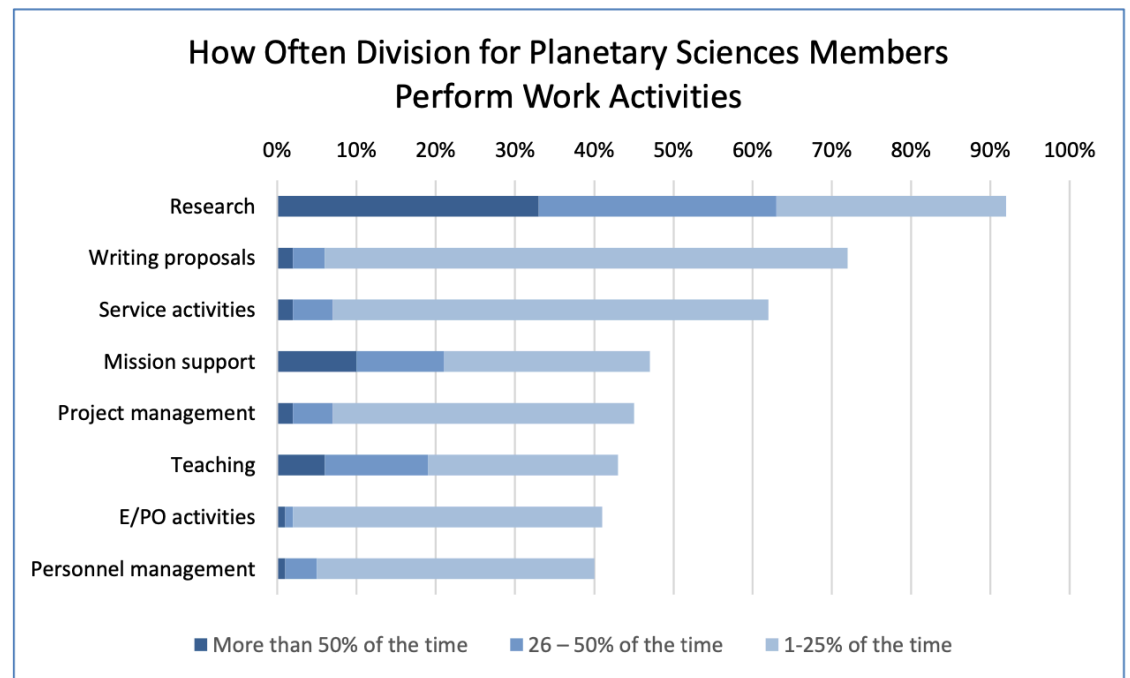
Time Allocations

Over 90% of DPS respondents performed research during their work, and over 60% performed proposal writing and service activities.

(from 2010 survey)

Time Allocation Questions

- > 50% of the respondents spend half of their time doing research
- > 20% spend NO time doing E/PO (some didn't know what it was)
- Nearly half spend NO time on mission support
- Nearly half do NO teaching



E/PO=Education and public outreach. Results do not include students.

DPS Priorities

(28) Which of these do you think should be top priorities of the DPS over the next five years? *Please check up to four.*

(from 2010 survey)

23. How would you rank the following as priorities of the DPS over the next 5 years?

433 people answered the question; 77 people skipped the question

In order of priority:

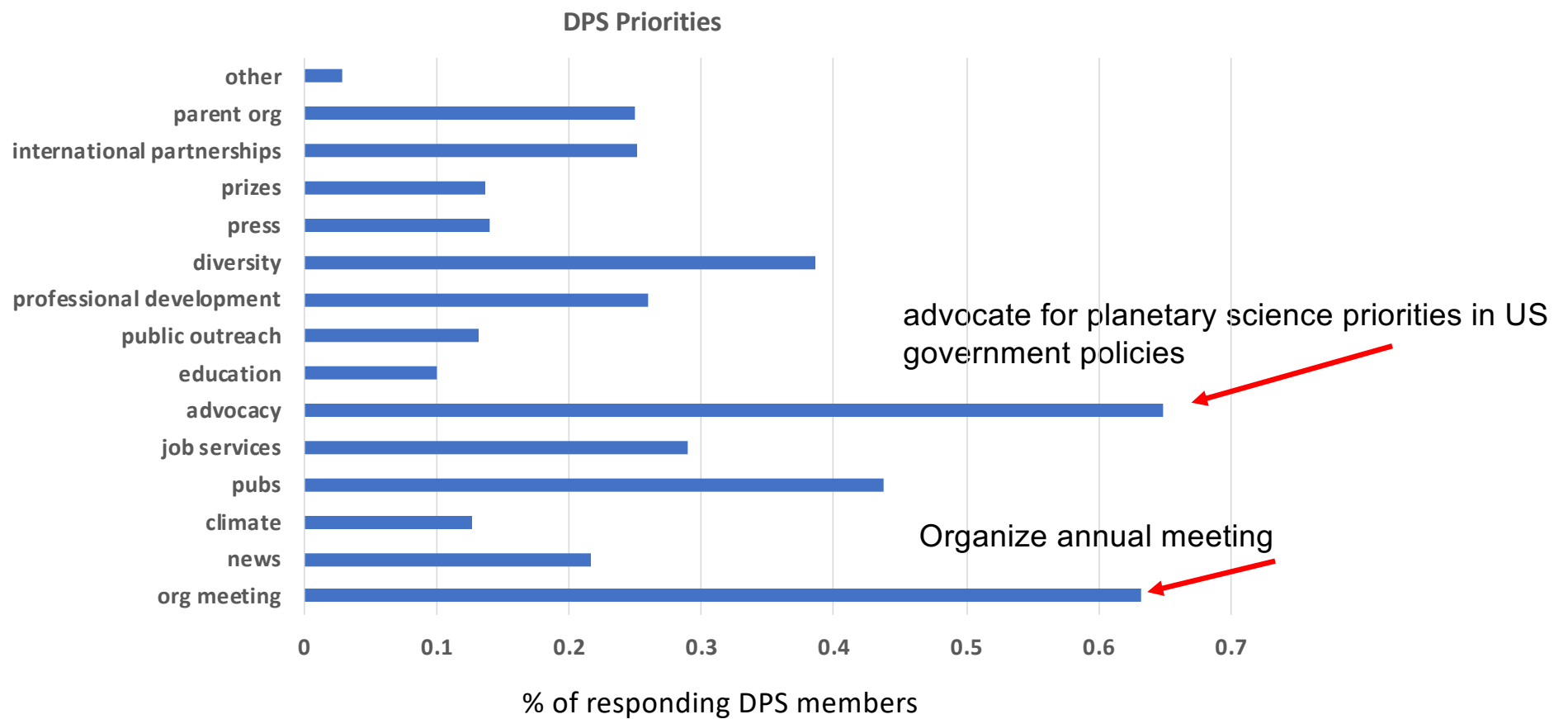
1. [9.23] Organize annual meeting - 411 responses
2. [7.24] Influence government policy - 387 responses
3. [5.91] Job service (register, interview booths) – 379 responses
4. [5.43] Encourage career development, mentoring – 407 responses
5. [5.39] Public information – 388 responses
6. [5.31] Dissemination of results in the press – 398 responses
7. [5.25] Sponsor/co-sponsor other topical meetings – 380 responses
8. [4.94] Education university to postdoc – 390 responses
9. [4.19] Education K-12 – 381 responses
10. [3.72] Supporting diversity in the community – 396 respondents

581 responses

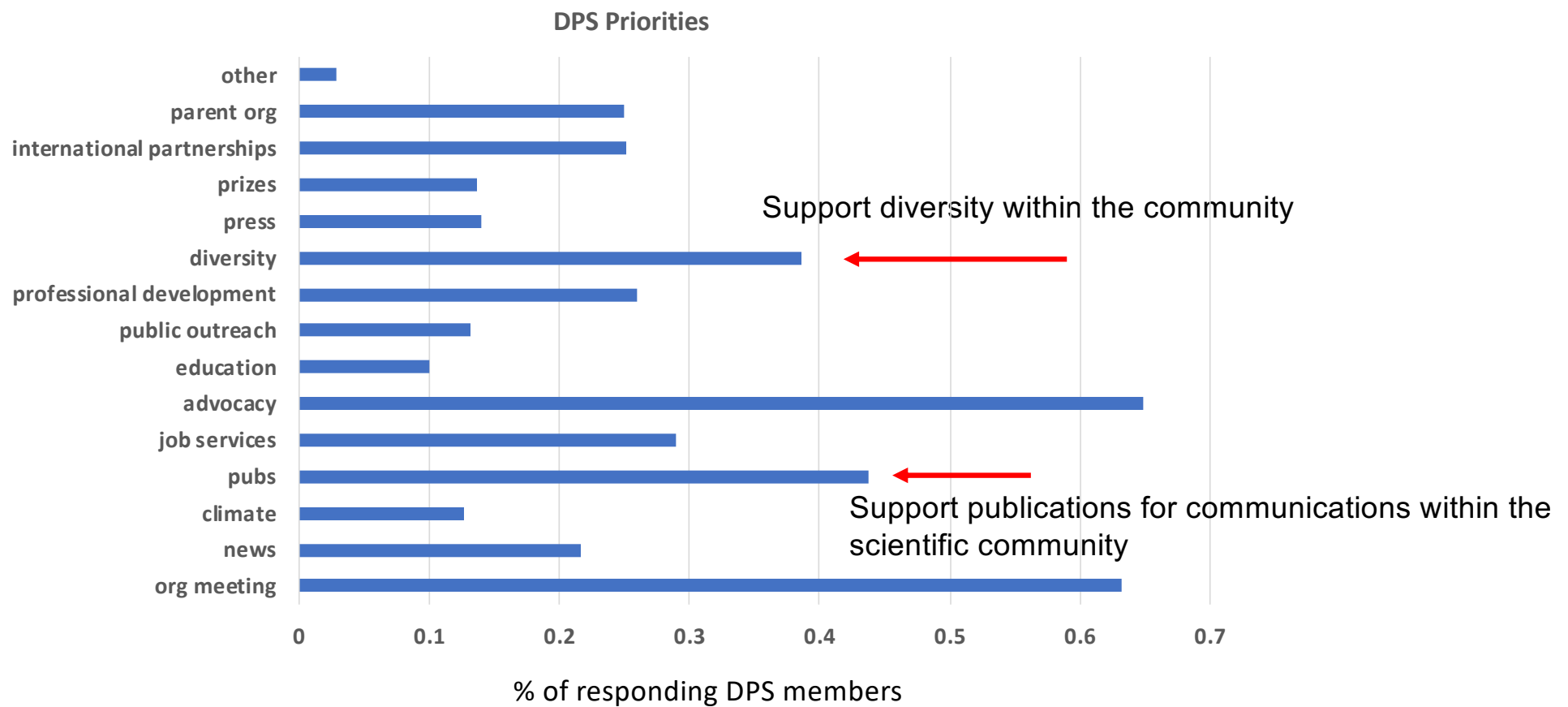
566 responses

Priority for the Division for Planetary Sciences	Percentage of Member Support
Advocate for planetary science priorities in US government policies	65%
Organize annual meeting	63%
Support publications for communication within the scientific community	44%
Support diversity in the community	40%
Provide job services	30%
Encourage professional development	26%
Enhance partnerships with the international planetary science community	25%
Represent planetary science to AAS	25%
Distribute community news	22%
Disseminate results in the press	14%
Award prizes to those who excel in our field	14%
Access and mitigate the DPS impact on the terrestrial climate	13%
Provide public outreach materials for members	13%
Furnish education opportunities	10%

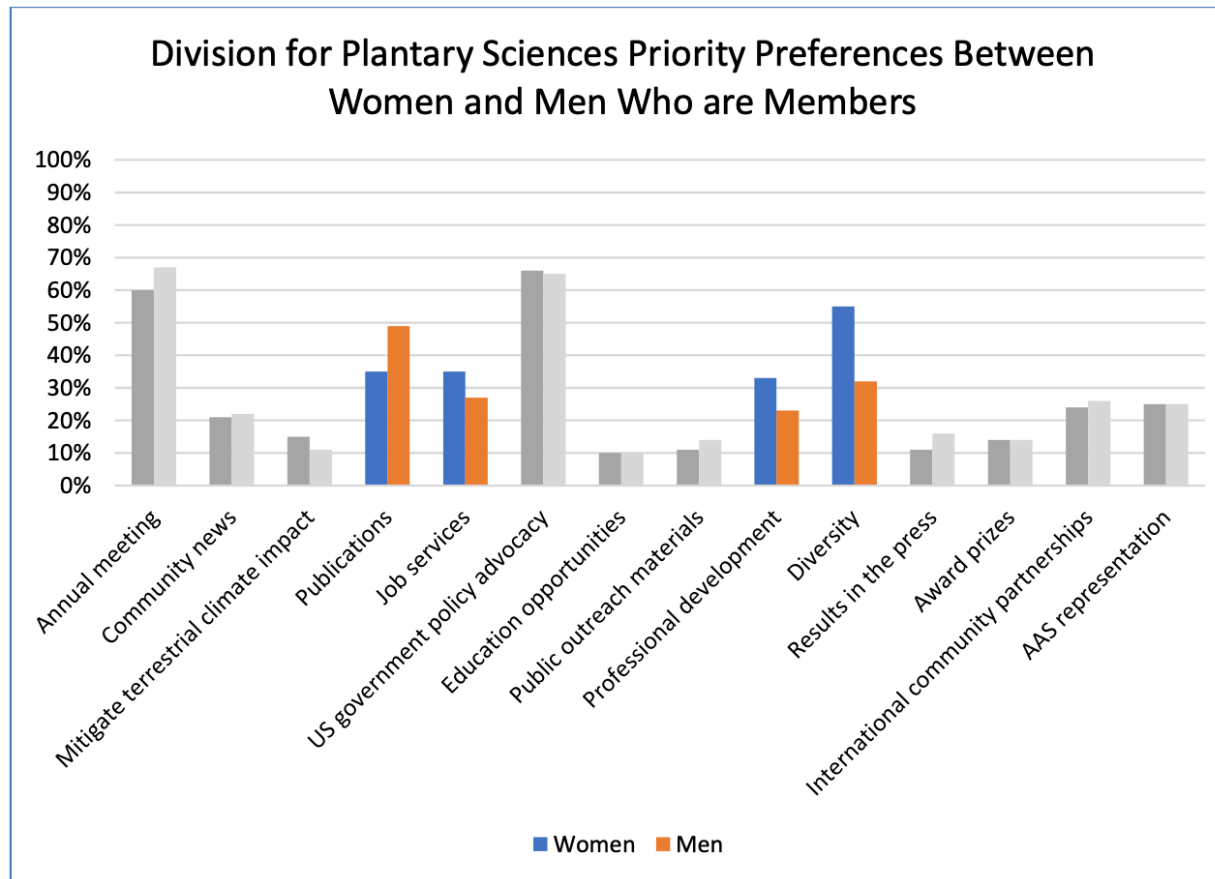
DPS Priorities



DPS Priorities

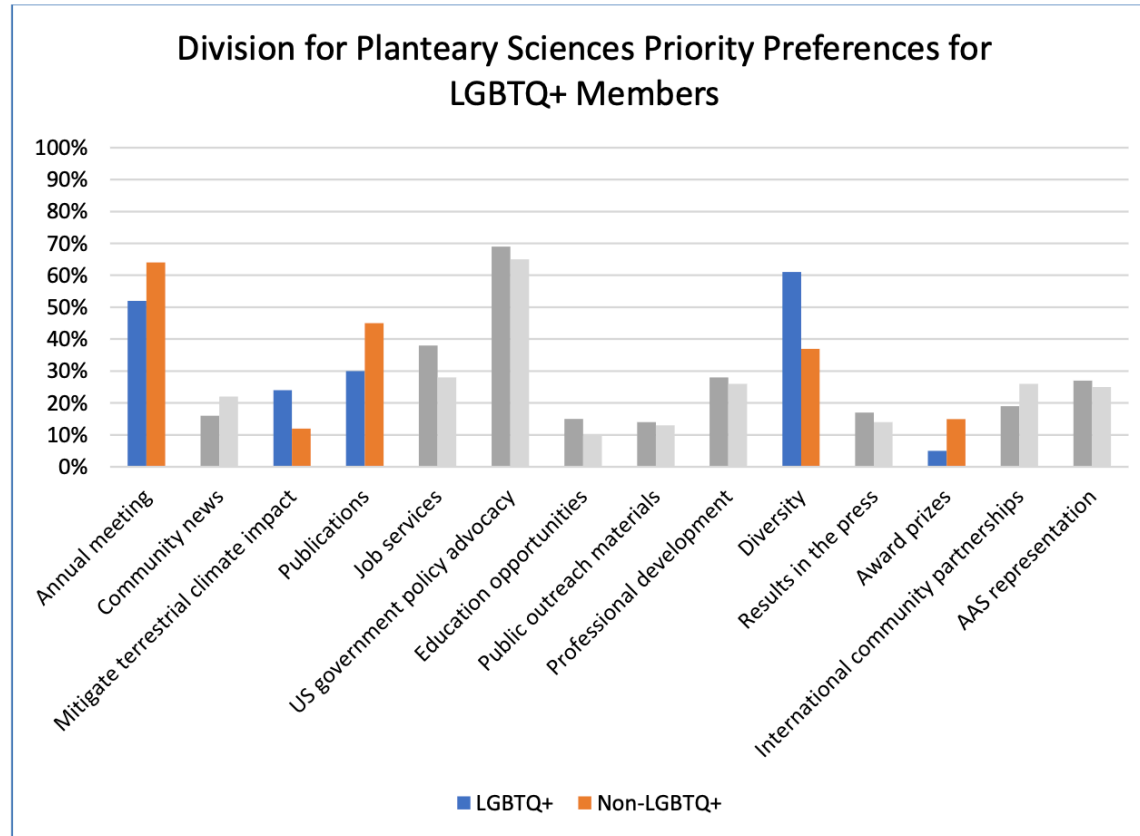


DPS members who identified as women felt it was significantly more important for DPS to prioritize supporting diversity, encouraging professional development, and providing job services. Members who identified as men felt it was significantly more important for DPS to prioritize supporting publications.



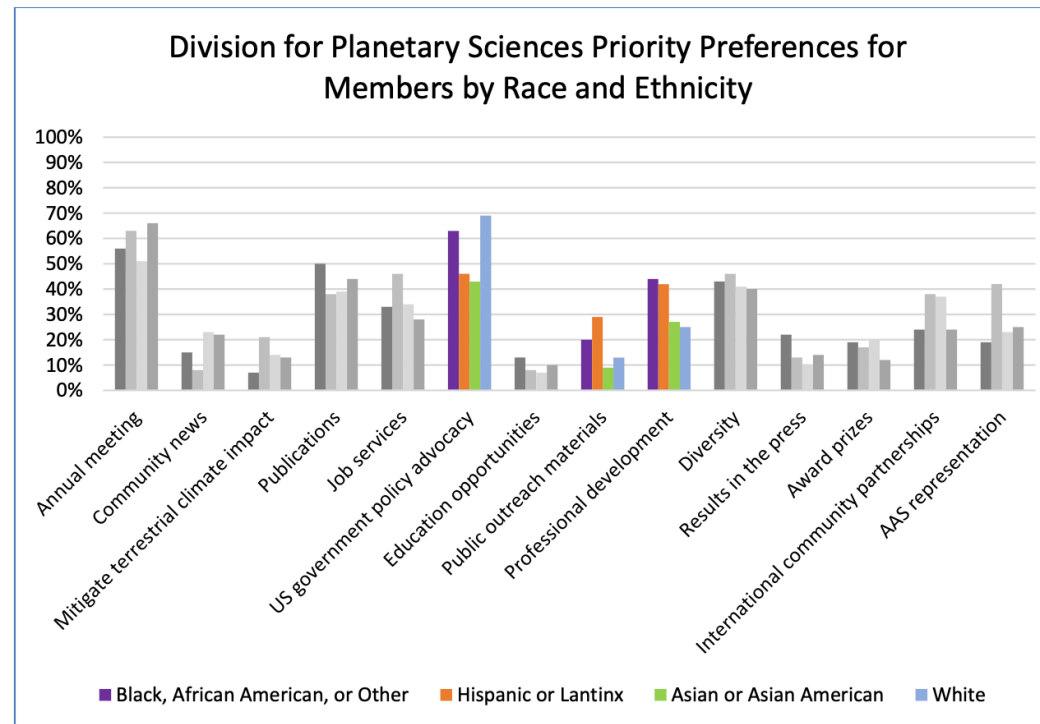
Findings shown in color were statistically significant, $p < .05$.

DPS members who were part of the LGBTQ+ community felt it was more important for DPS to prioritize supporting diversity and mitigating its impact on the terrestrial climate. LGBTQ+ members felt it was less important to prioritize organizing the annual meeting and supporting publications than non-LGBTQ+ members.



Findings shown in color were statistically significant, $p < .05$. LGBTQ+ included respondents who identify as gay, lesbian, bisexual, transgender, another sexual orientation, or another gender identity.

There were no significant differences for supporting diversity across DPS members of difference race/ethnicities. Members who are White, Black/African American, Native American/Alaska Native, or Native Hawaiian/Pacific Islander felt it was significantly more important to prioritize advocating for planetary science in US government policies. Members who are Hispanic/Latinx, Black/African American, or of other underrepresented groups felt it was more important to prioritize providing public outreach materials and encouraging professional development.



Findings shown in color were statistically significant, $p < .05$. Other Race/Ethnicity included respondents who are Native American/Alaska Native, Native Hawaiian/Other Pacific Islander, or wrote in another race/ethnicity. These groups were too small to report separately and were combined for analysis.

(29) How often do you think DPS should hold joint meetings with the European Planetary Science Congress (EPSC)?

(from 2010 survey)

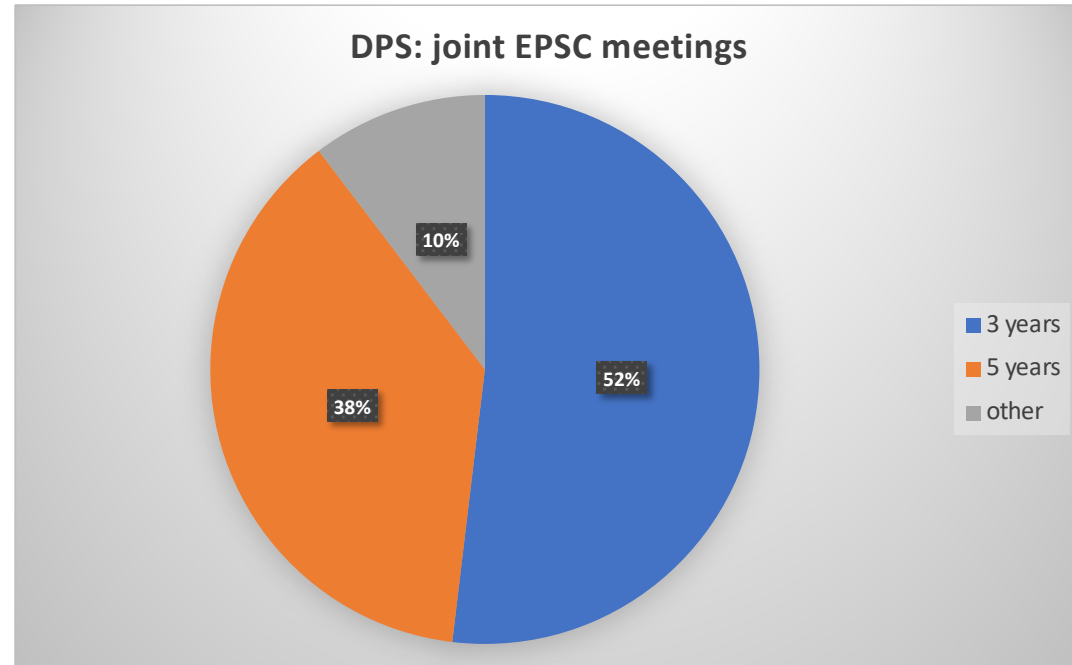
24. Is the current pacing (every 5-6 years) of international DPS meetings meet the needs of the DPS membership?

434 people answered the question; 76 people skipped the question

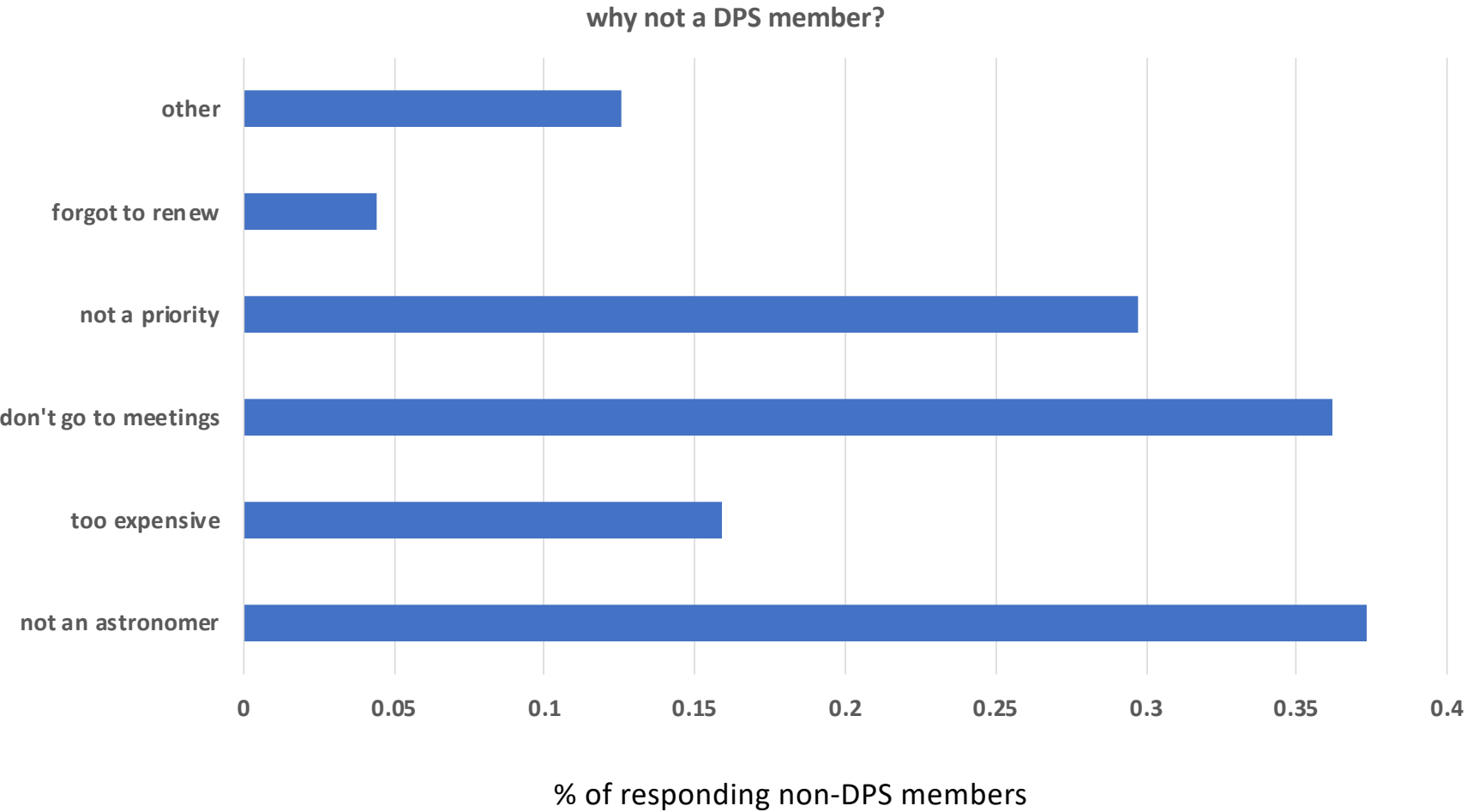
Too frequent: 6.5% (28 respondents)

Just right: 73.0% (317 respondents)

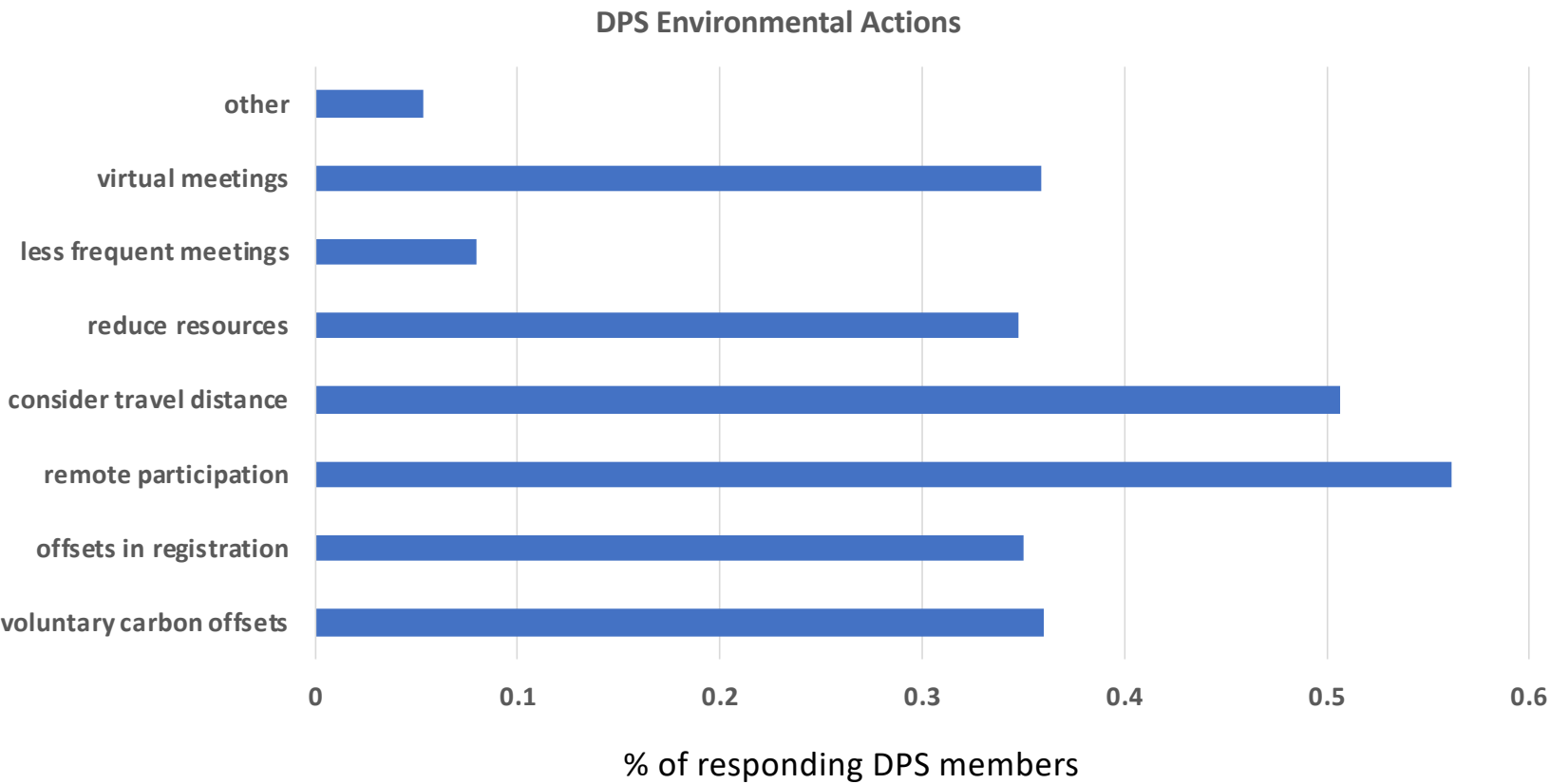
Too infrequent: 20.5% (89 respondents)



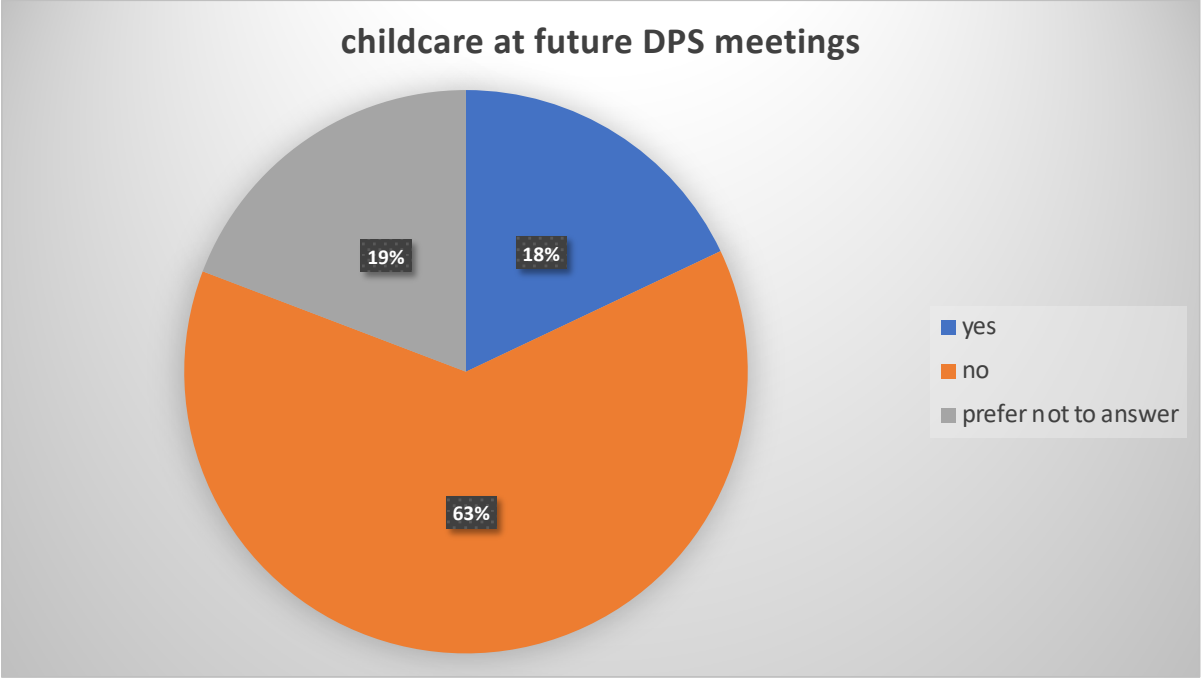
If you're not currently a DPS member, why not? *Please check all that apply.*



(30) Which of the following specific environmental actions should the DPS take? *Please check all that apply.*



Would you consider using childcare at upcoming DPS meetings?



Thank you for participating in the 2020 DPS
Workforce Survey!