

STScI | SPACE TELESCOPE | SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

EAP Community Survey - Update on Results

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ESA Office & Science Mission Office

10 May 2023



Reminder: Current EAPs and Motivation for the Survey

- Current status: EAPs in place for JWST and HST.
- NASA mandate applies to future missions not current missions.
- Survey requested by JSTUC and STUC to gather information from both user communities. (Lead was Molly Peeples. Thanks also for your inputs!)
- Survey results won't dictate policy but will help inform future discussions.
- There are lots of stakeholders (and formal agreements) all would have to agree IF a change is ever proposed.





- Released: Monday November 28, 2022
- Advertised broadly:
 - >15k astronomers via STScI mailing list
 - publicised at AAS
 - circulated by NEXSci via their mailing list
 - posted on social media
- Deadline: Wednesday February 15, 2023
- Total Responses: 1171
- Very preliminary results: **JSTUC** meeting March 1, 2023





Demographics

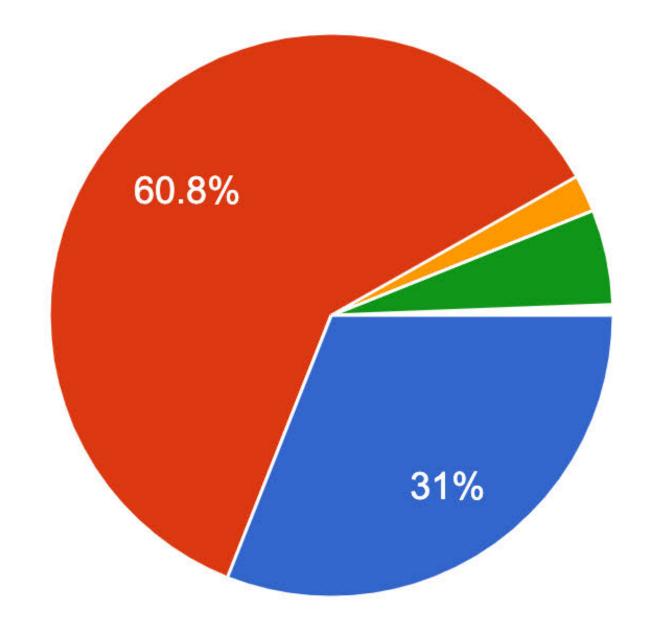




Preliminary Demographics

What is your gender identity?

1,171 responses

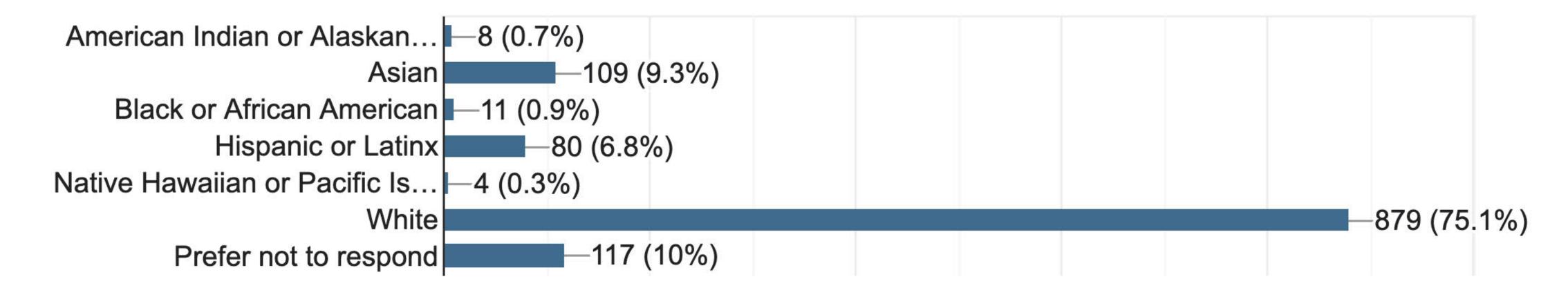








What do you identify as your race and/or ethnicity? 1,171 responses



+ write-ins





7 key questions:

- Have you used Archival HST data?
- Have you used Archival JWST data?
- Have you ever not done a project because of an EAP?
- How would a reduced or zero EAP affect your research plans?
- How do you think the following groups would be impacted by reduced or zero EAP?
- What are the potential benefits of zero EAP?
- What are the potential downsides of zero EAP?

• 3 demographic groups:

- Career Stage
- Research Field
- Geographic Region

S2: Past Experience

S3: Effects of changing EAP

S5: Final Thoughts

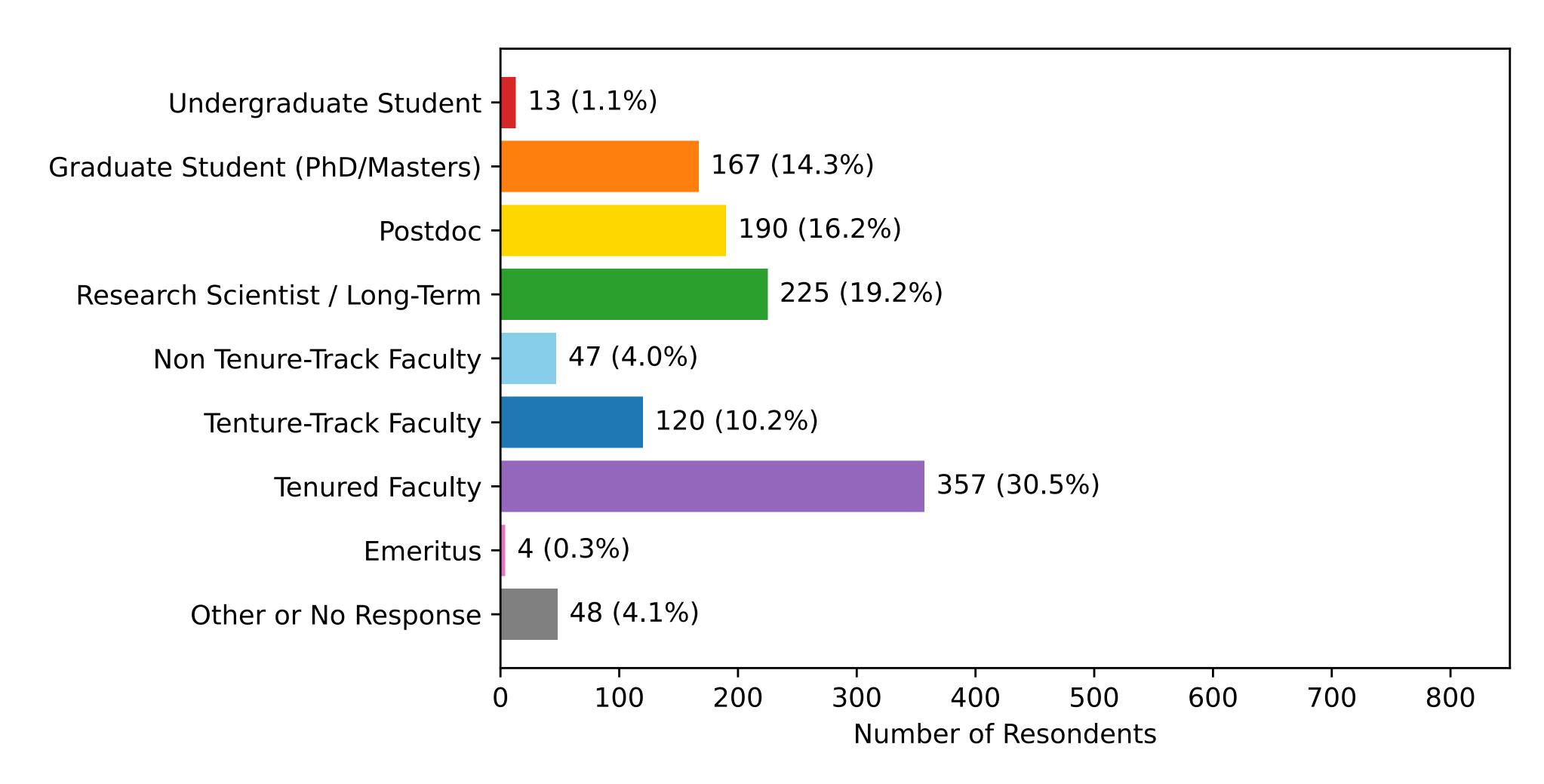




Career Stage



Career Stage

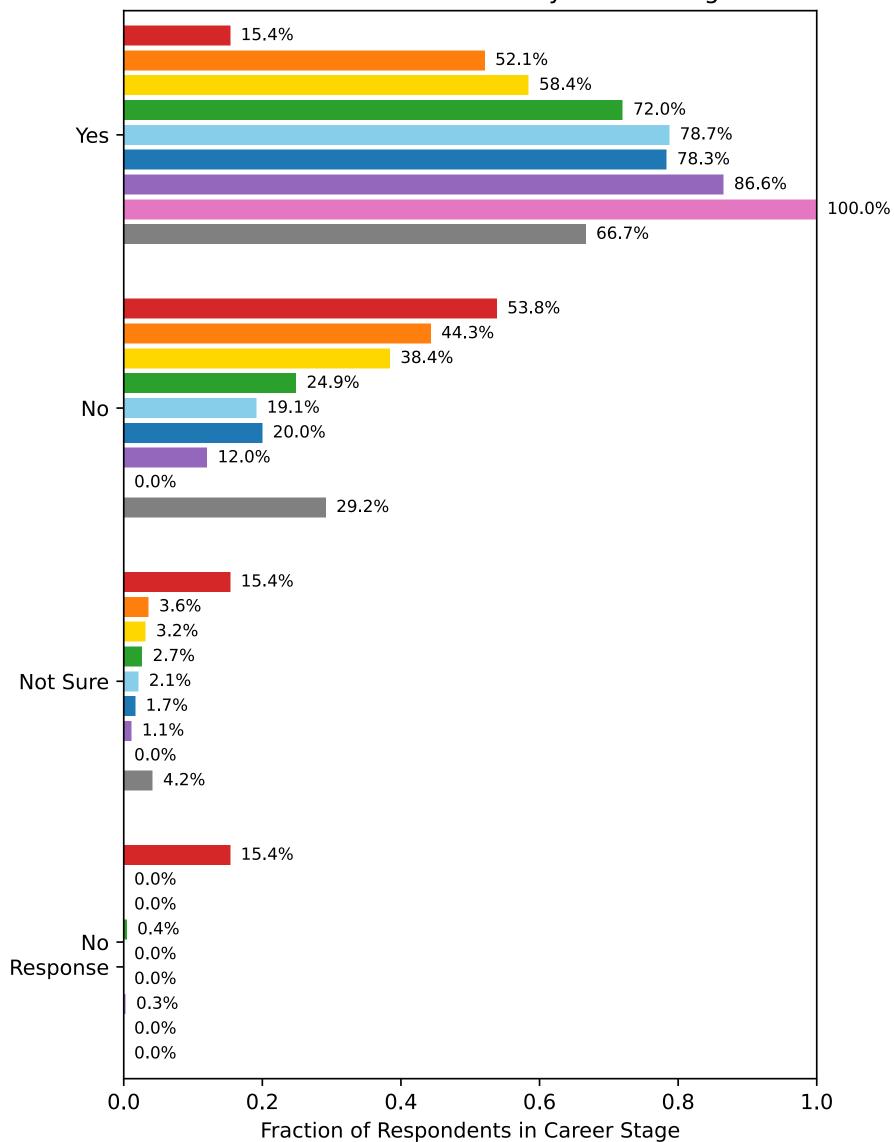


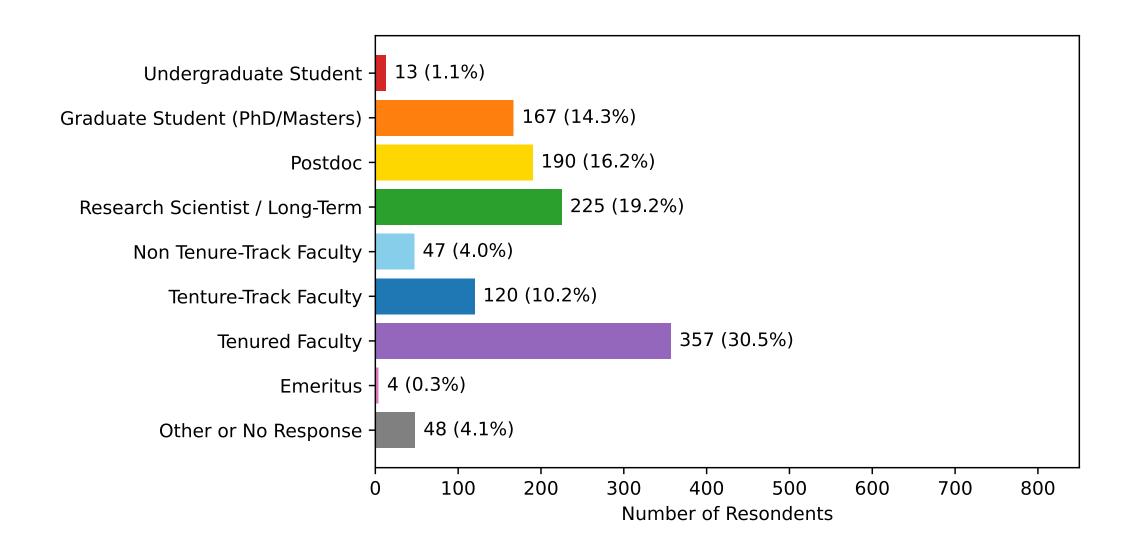




Archival HST Data Use / Career Stage





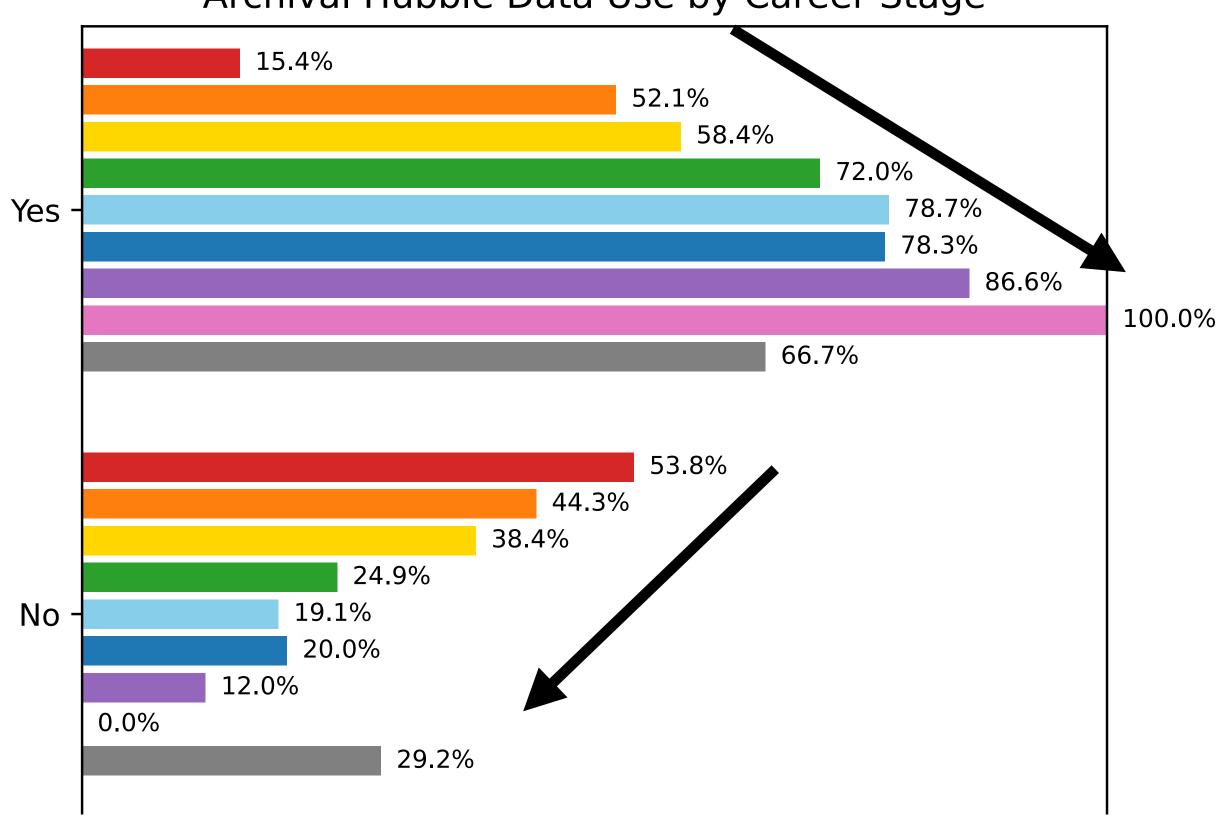


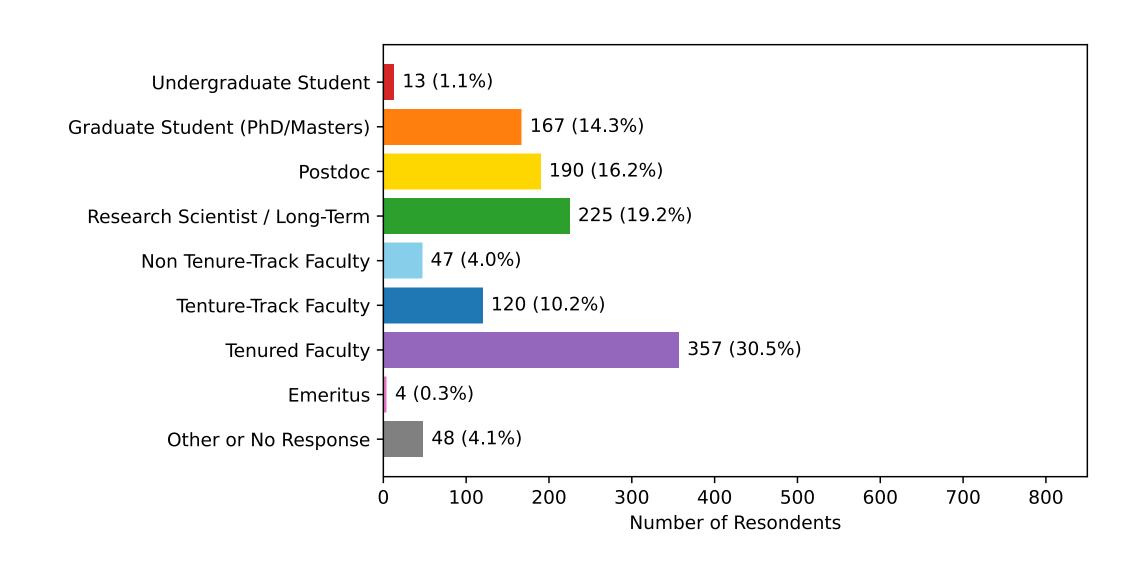




Archival HST Data Use / Career Stage

Archival Hubble Data Use by Career Stage

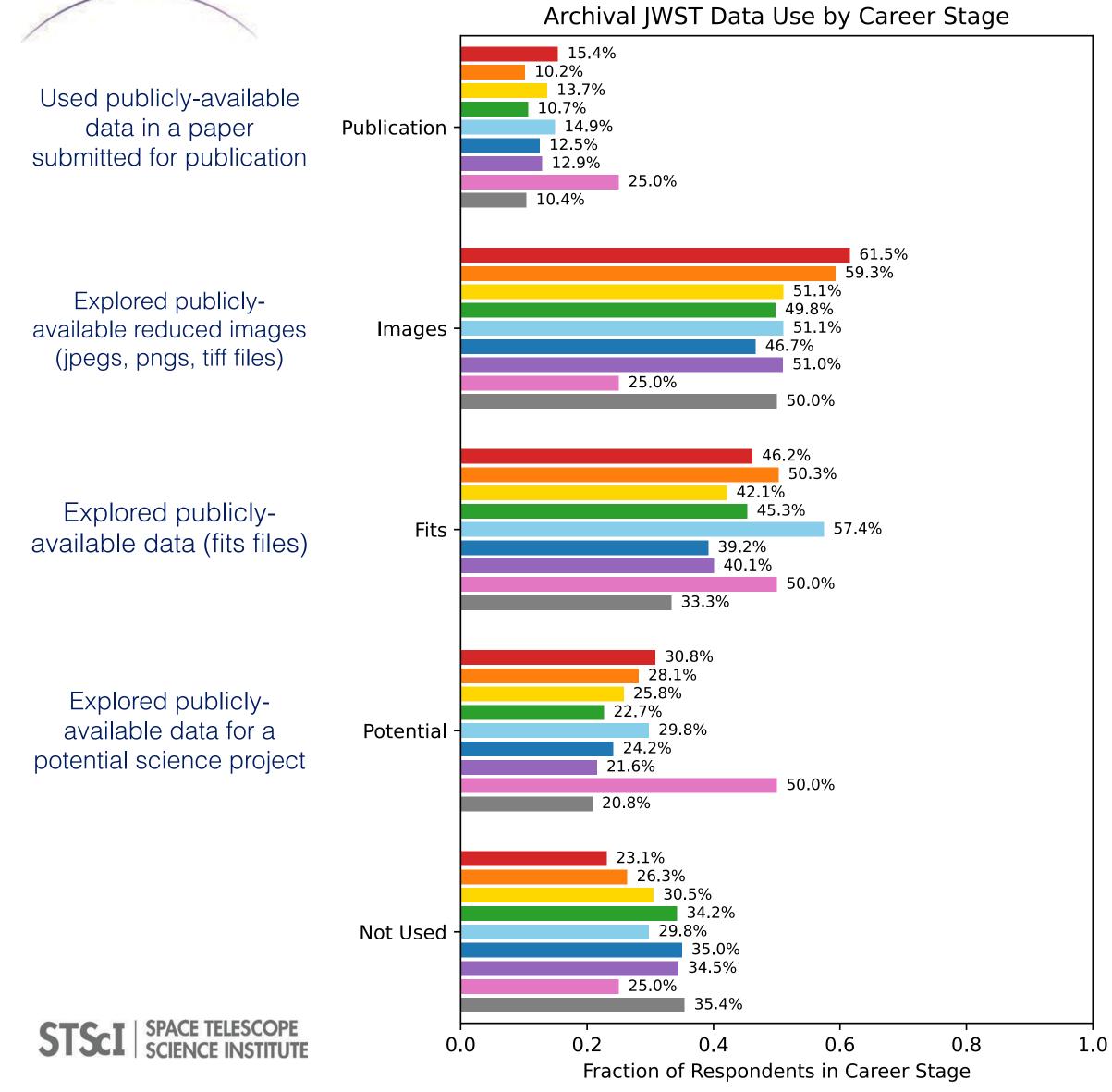




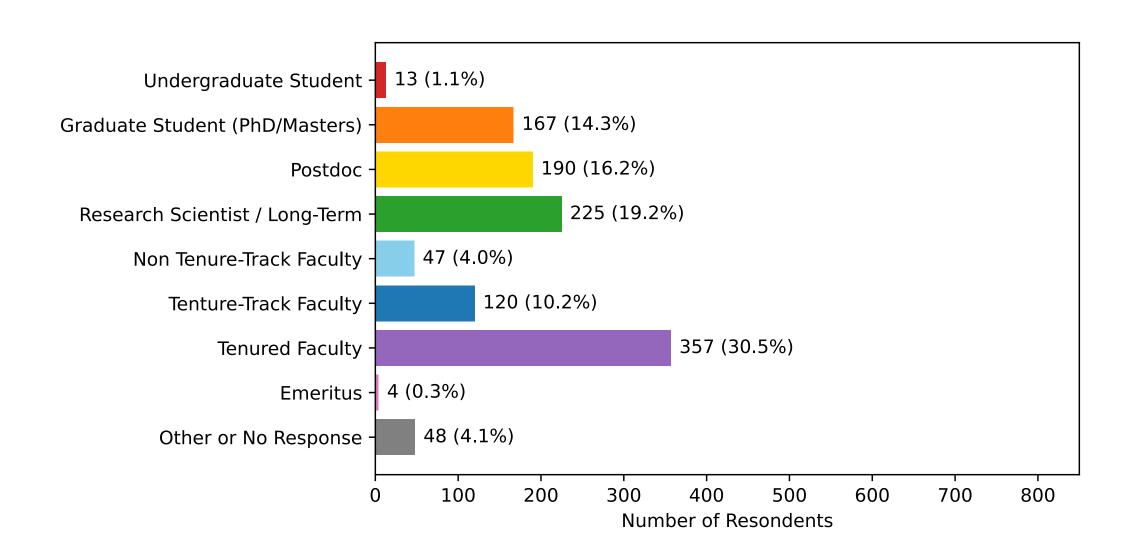




Archival JWST Data Use / Career Stage

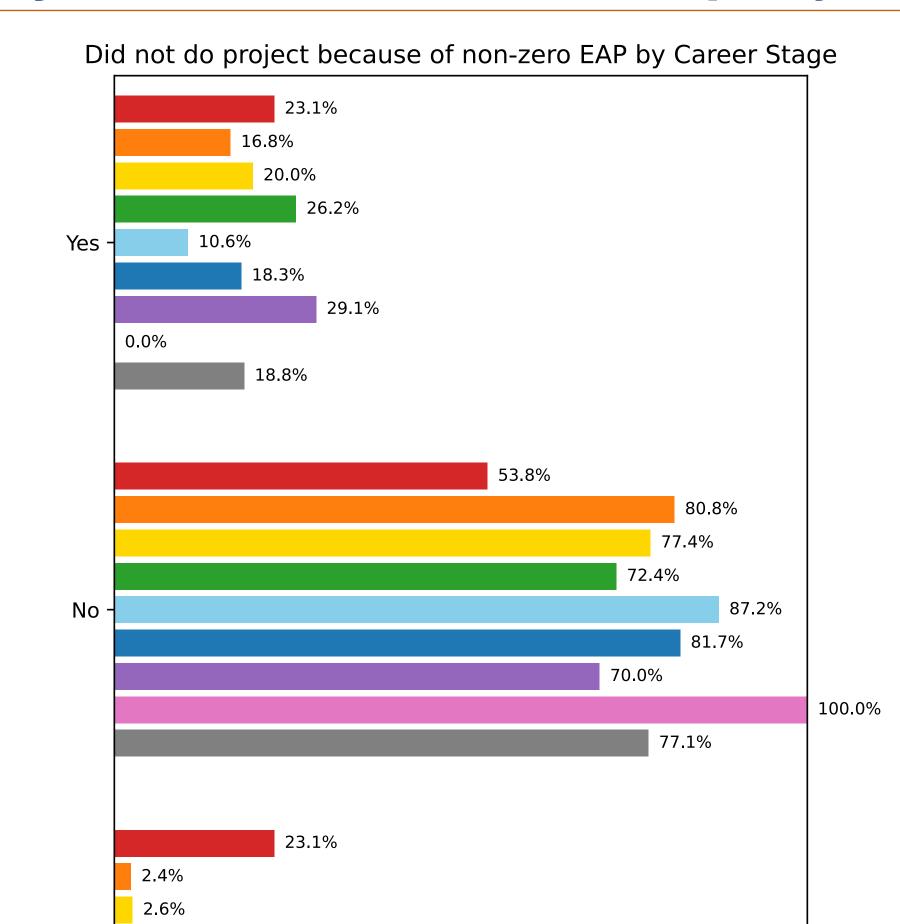


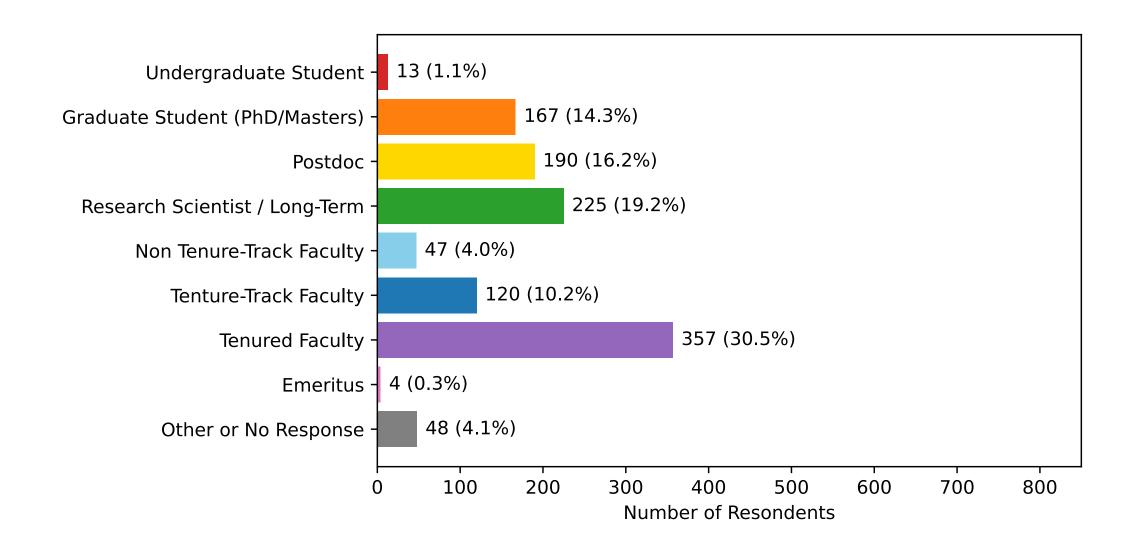
End Nov through mid Feb.





Have you ever not done a project because of EAP? / Career Stage







1.3%

0.8%

0.0%

0.0

4.2%

0.2

0.4

Fraction of Respondents in Career Stage

0.6

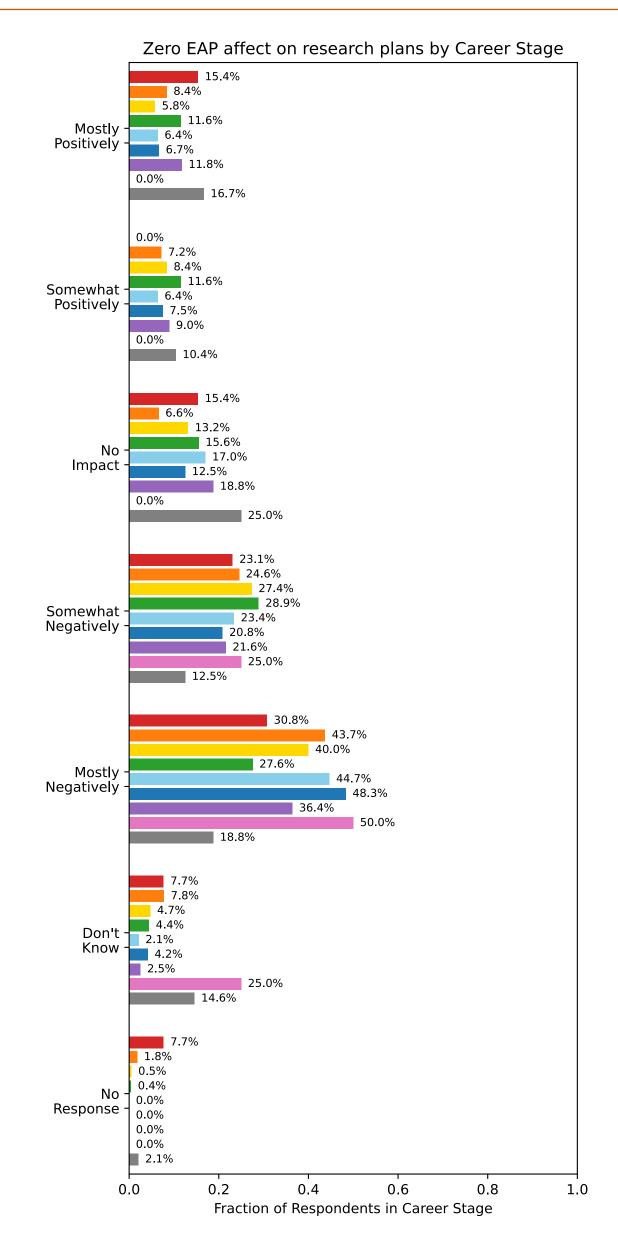
8.0

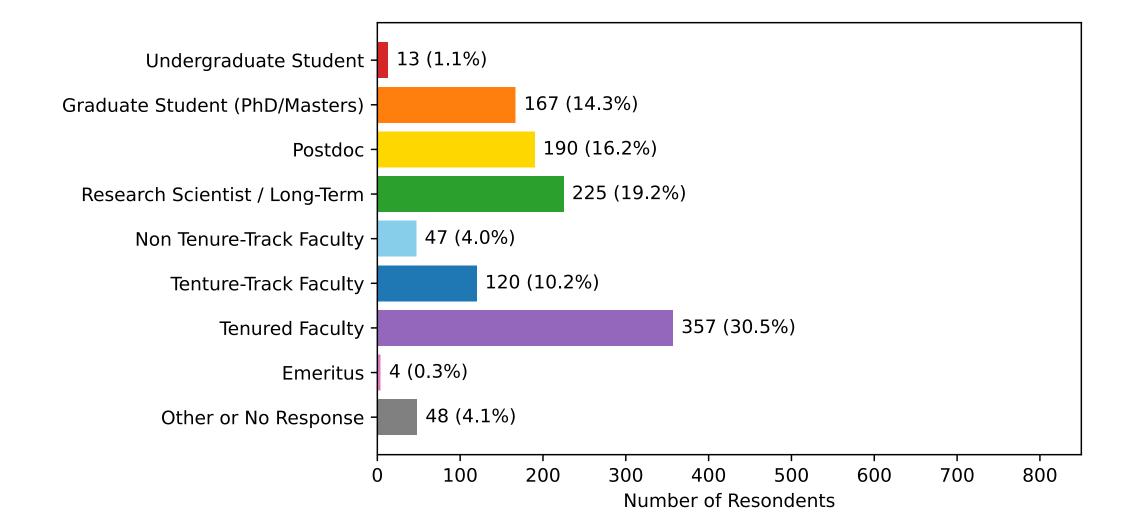
1.0

Response



Effect of Zero EAP on research plans / Career Stage

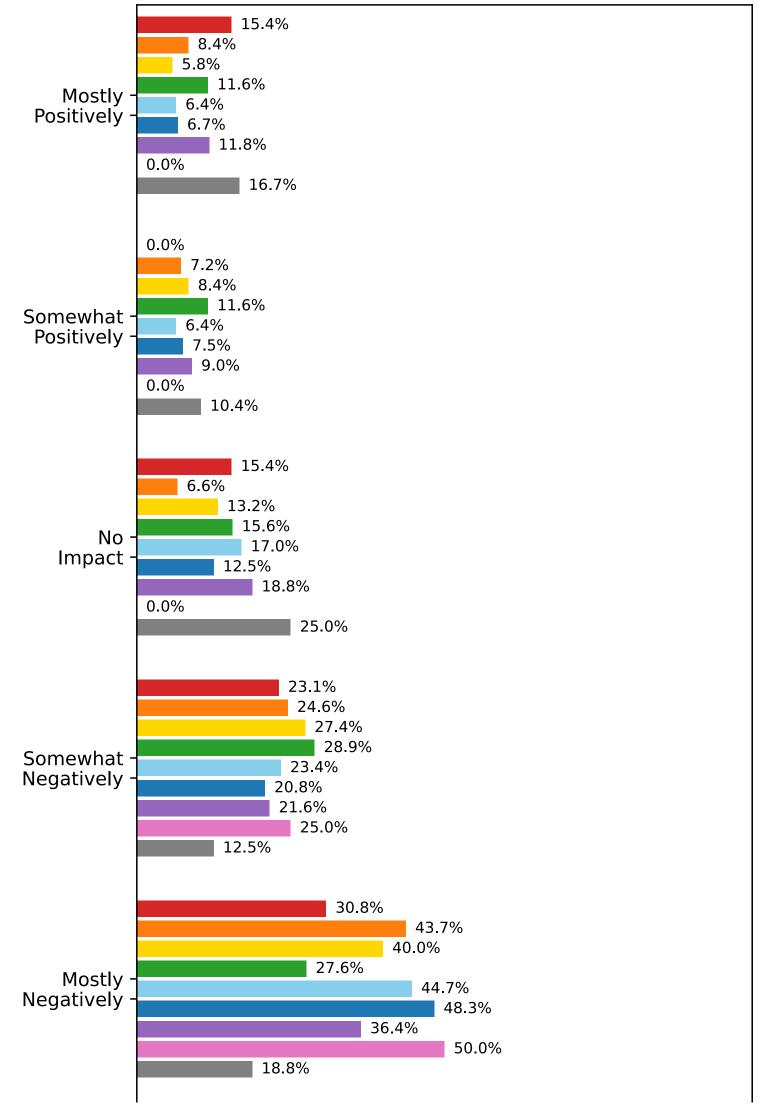


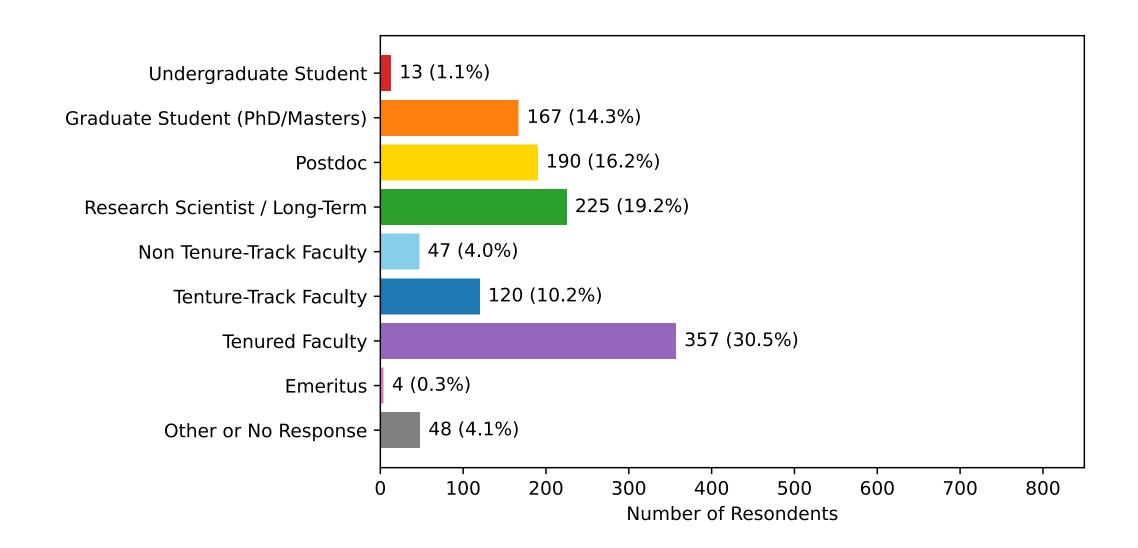




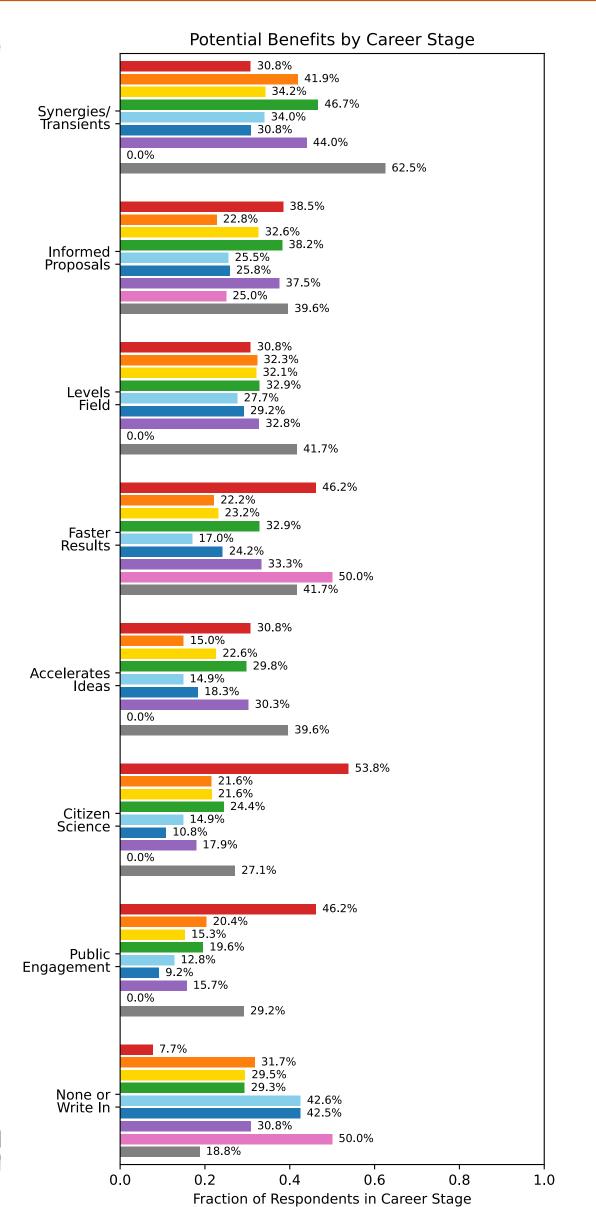
Effect of Zero EAP on research plans / Career Stage

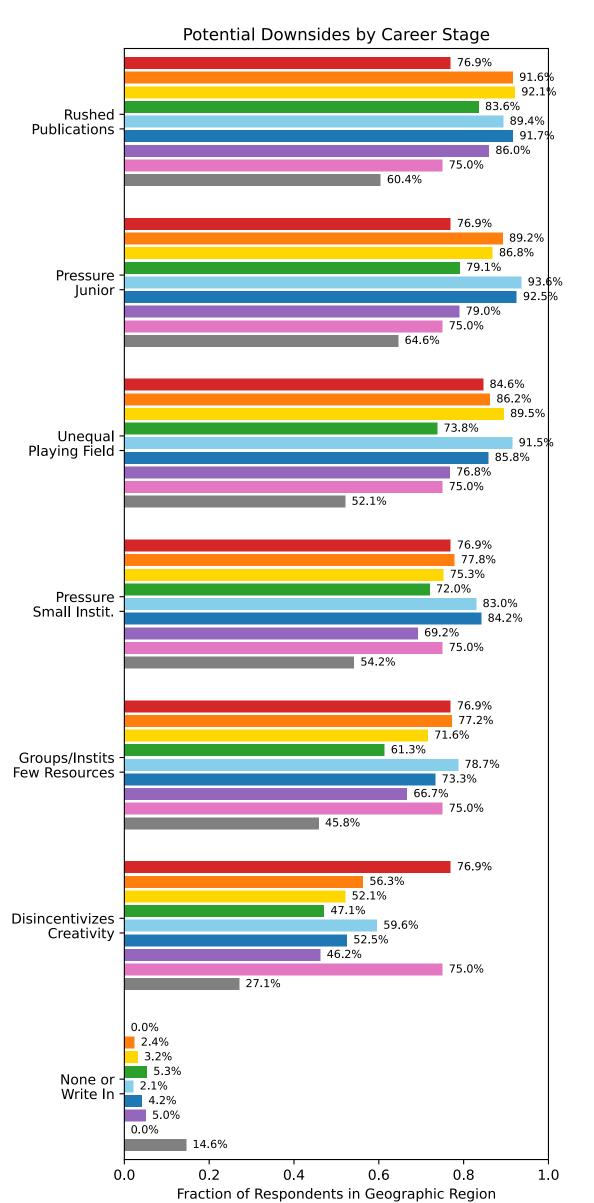


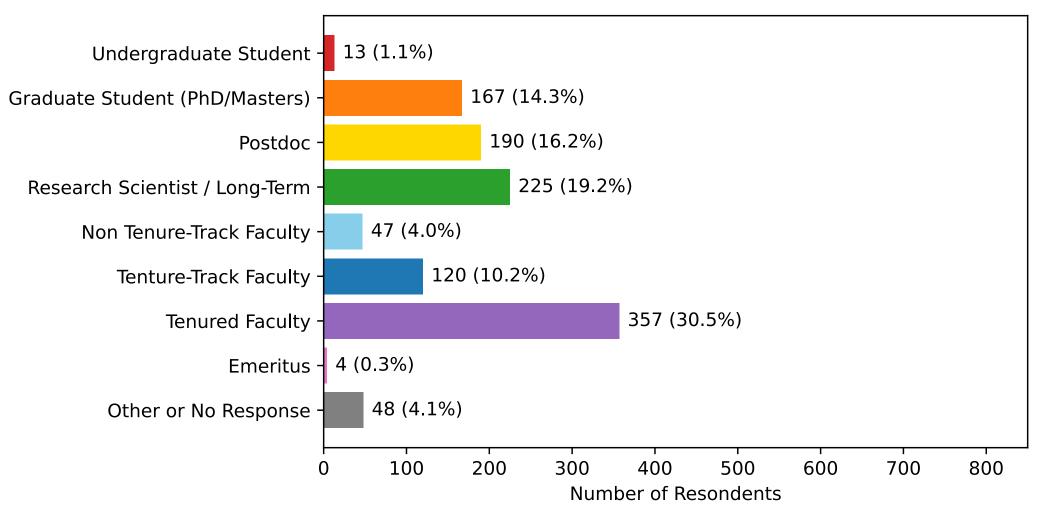


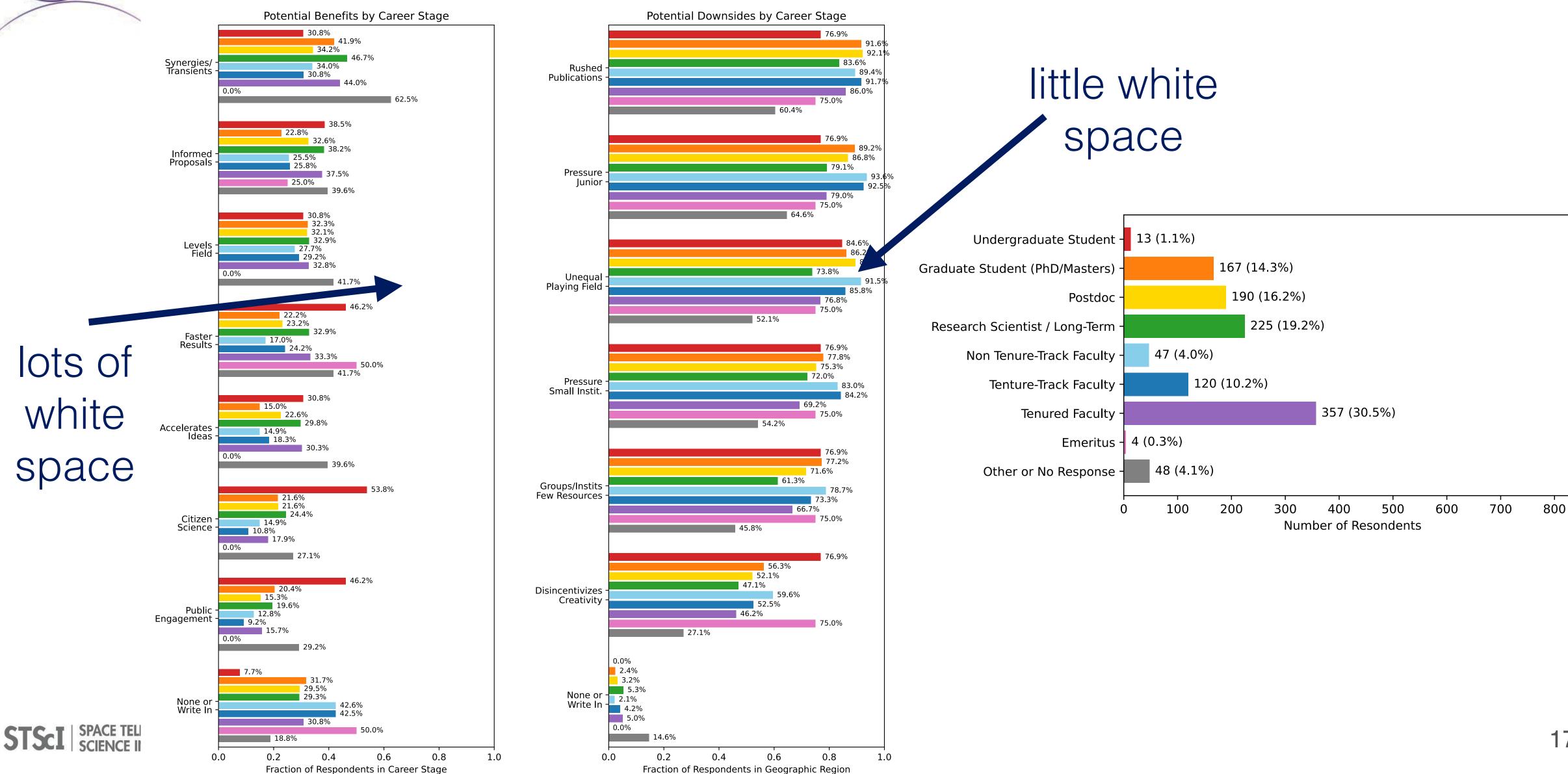


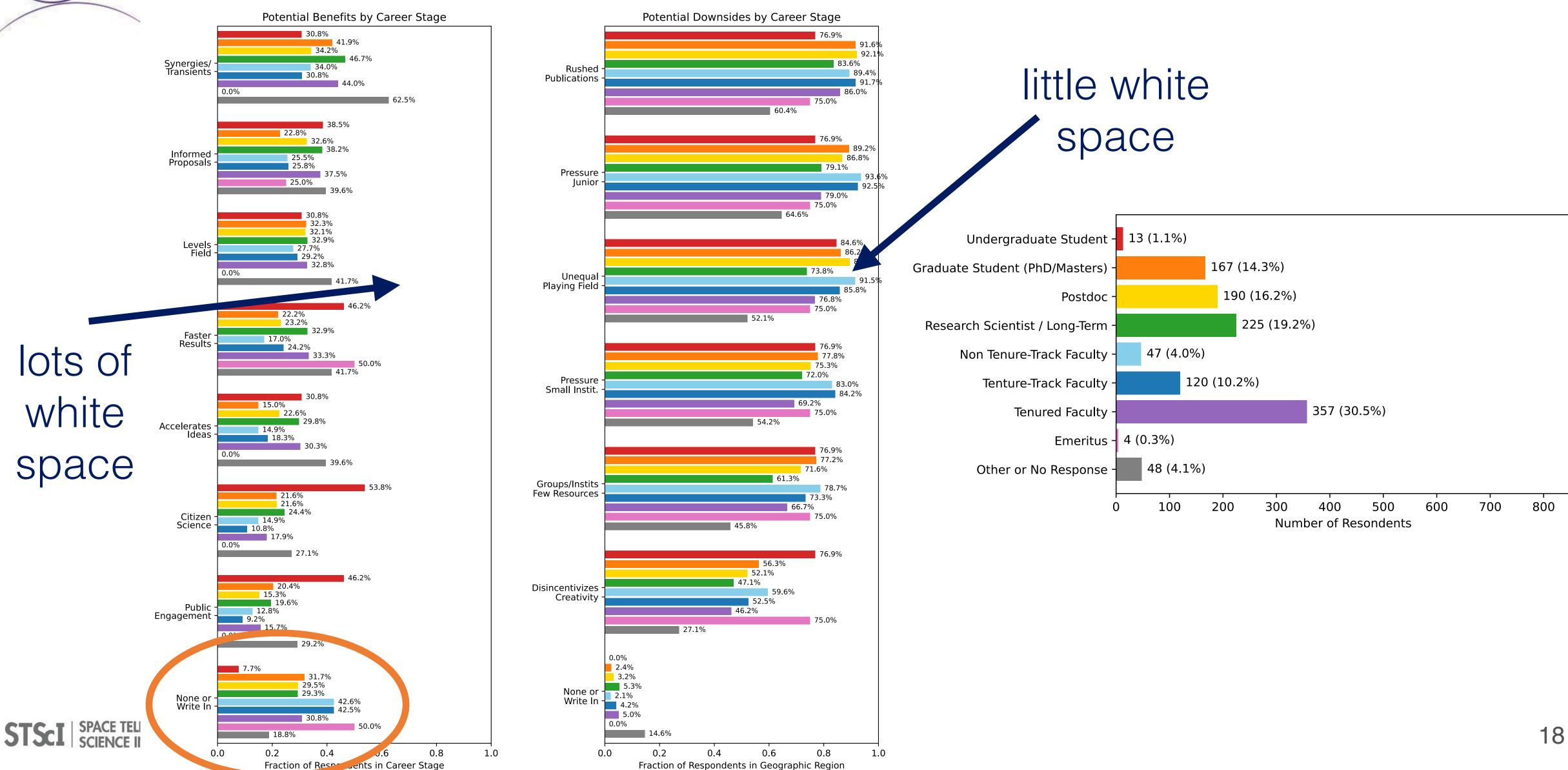


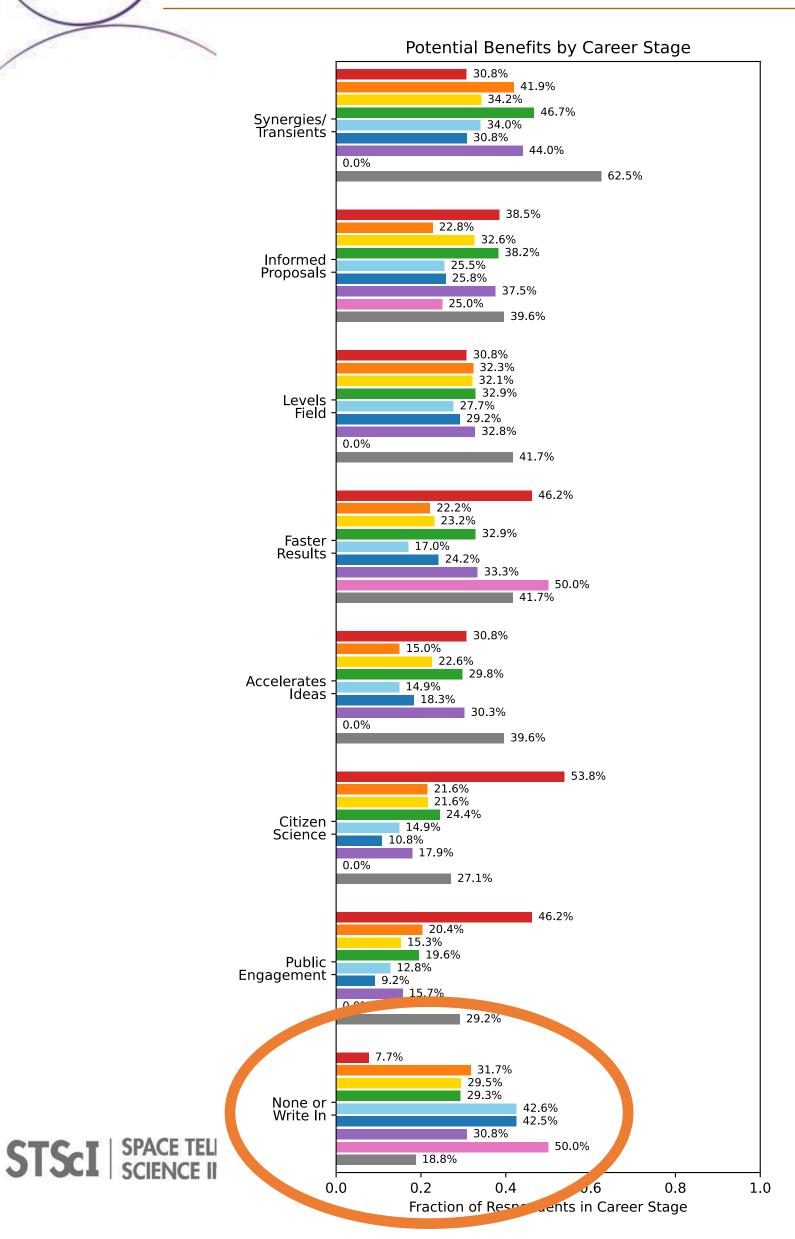












Some genuine potential benefits:

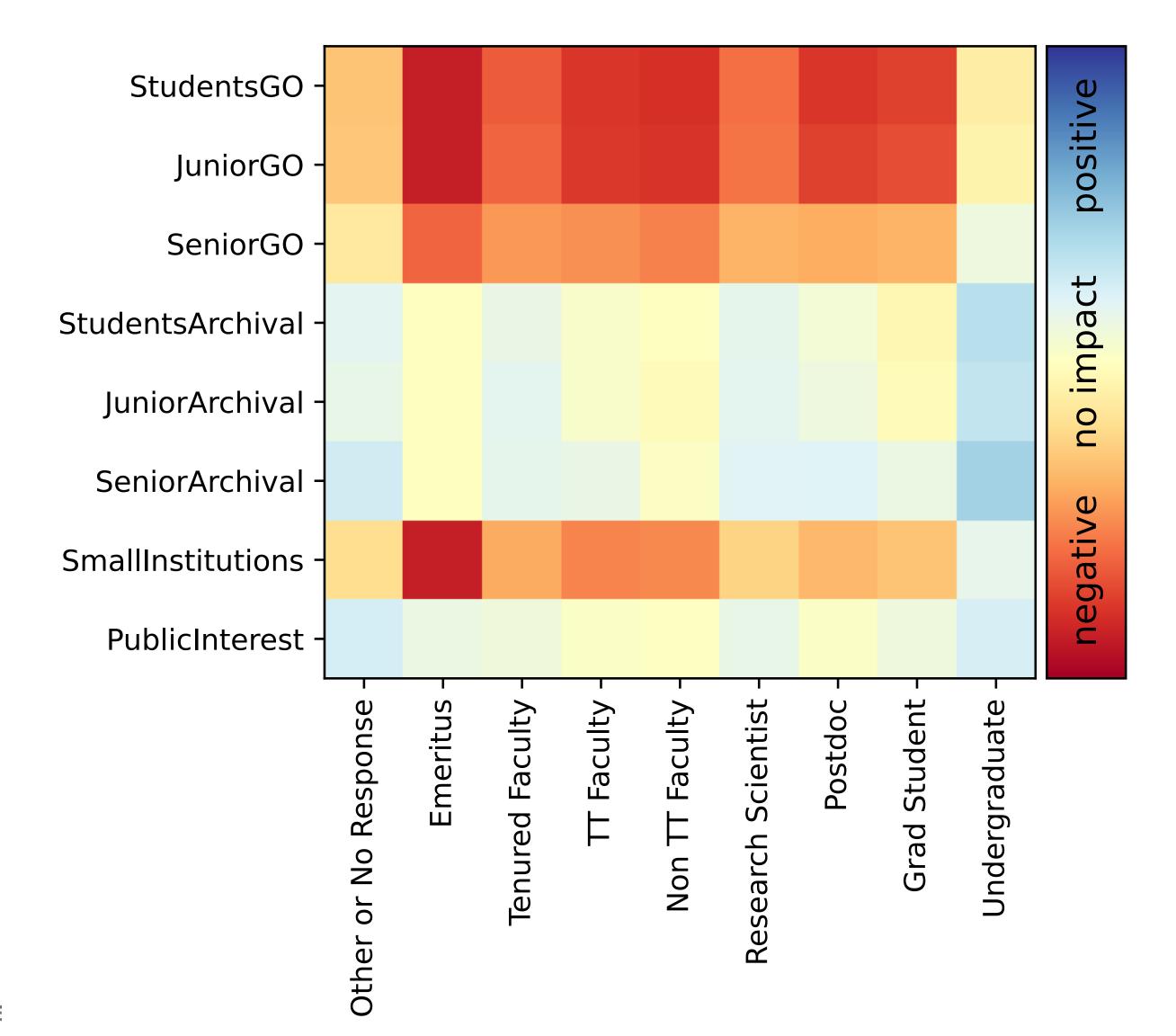
- Helps researchers with language barriers.
- Those who don't have access to a supportive community of mentors and resource analysts would have access to the data at the same time as their more well resourced colleagues.
- It will make the field much more diverse, equitable, and inclusive. It enables access to datasets required to be a successful astronomer. This obviously has a cascading effect in terms of who gets to do astronomy.

Some where a no response didn't suffice:

- There are no benefits.
- I really don't see any benefits. There is no need to share the photons right away.
- I see no positives that outweigh the negatives.
- I see zero benefits whatsoever. None of the above items will/would actually happen, and certainly not by making results or analyses that stand the test of time.
- There are no overall benefits that are in the public interest.
- <redacted for rudeness>



Impacts of reduced or zero EAP / Career Stage



+2: mostly positive

+1: somewhat positive

0: no impact

-1 : somewhat negative

-2: mostly negative

Calculated average of responses in each bin.

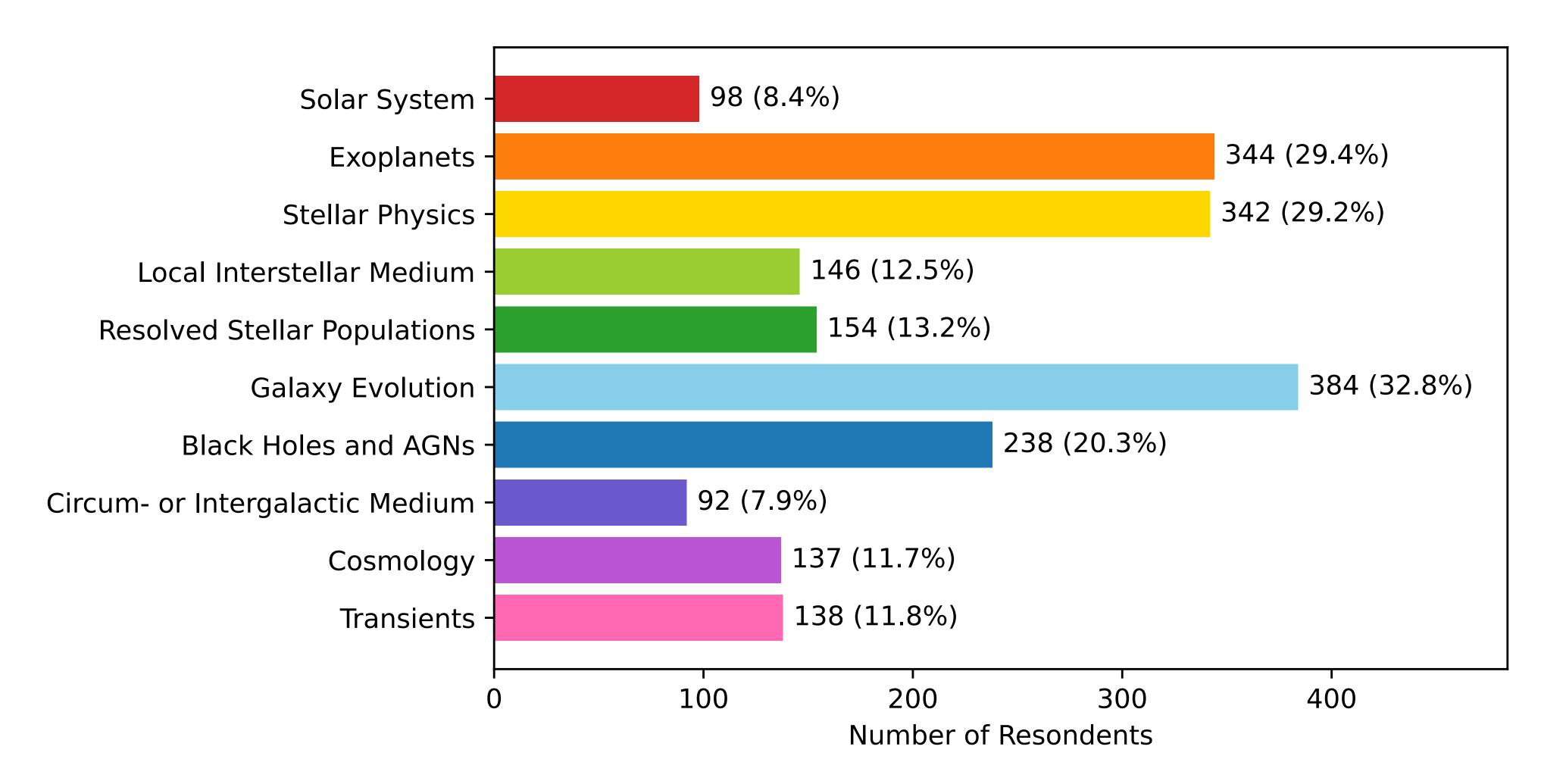


Research Field





Research Subfield (multiple responses ok)

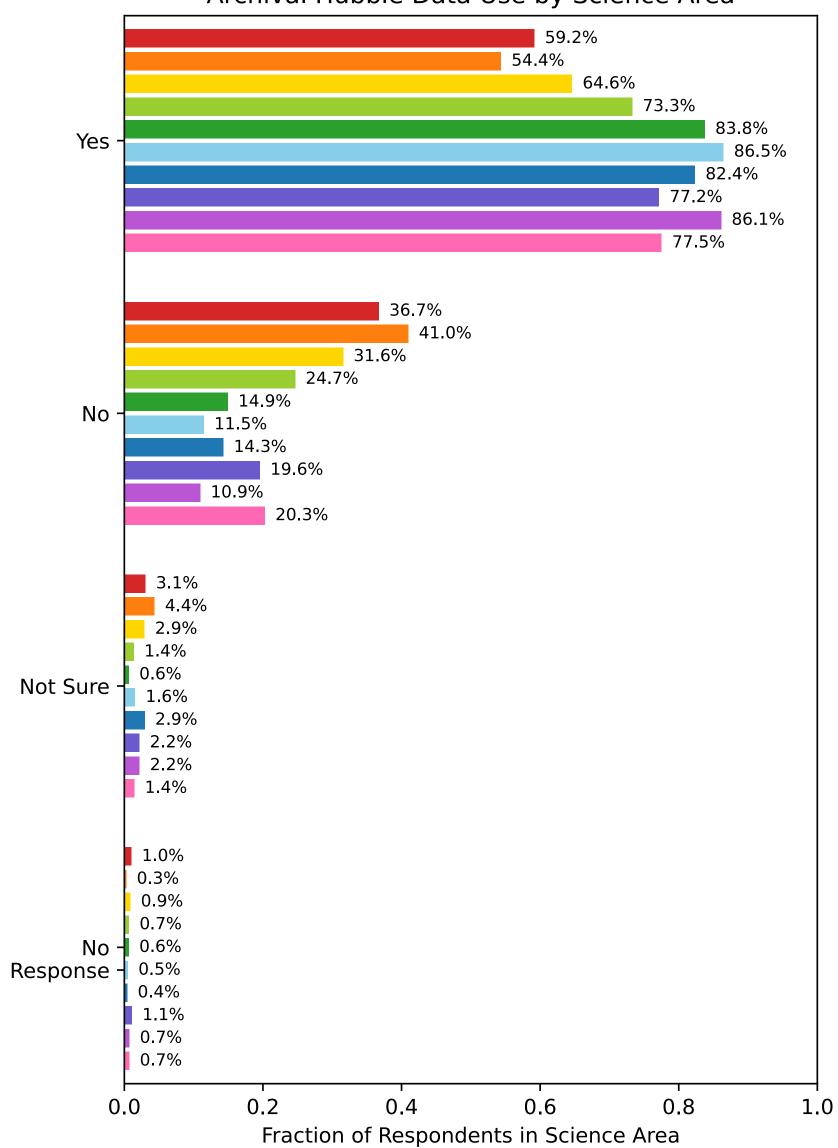


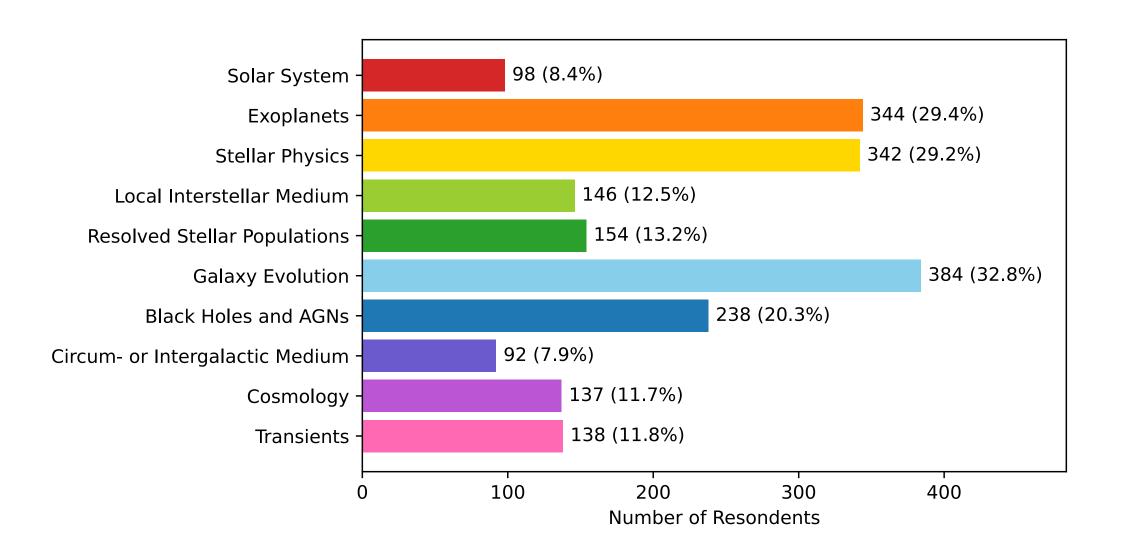




Archival HST Data Use / Research Field

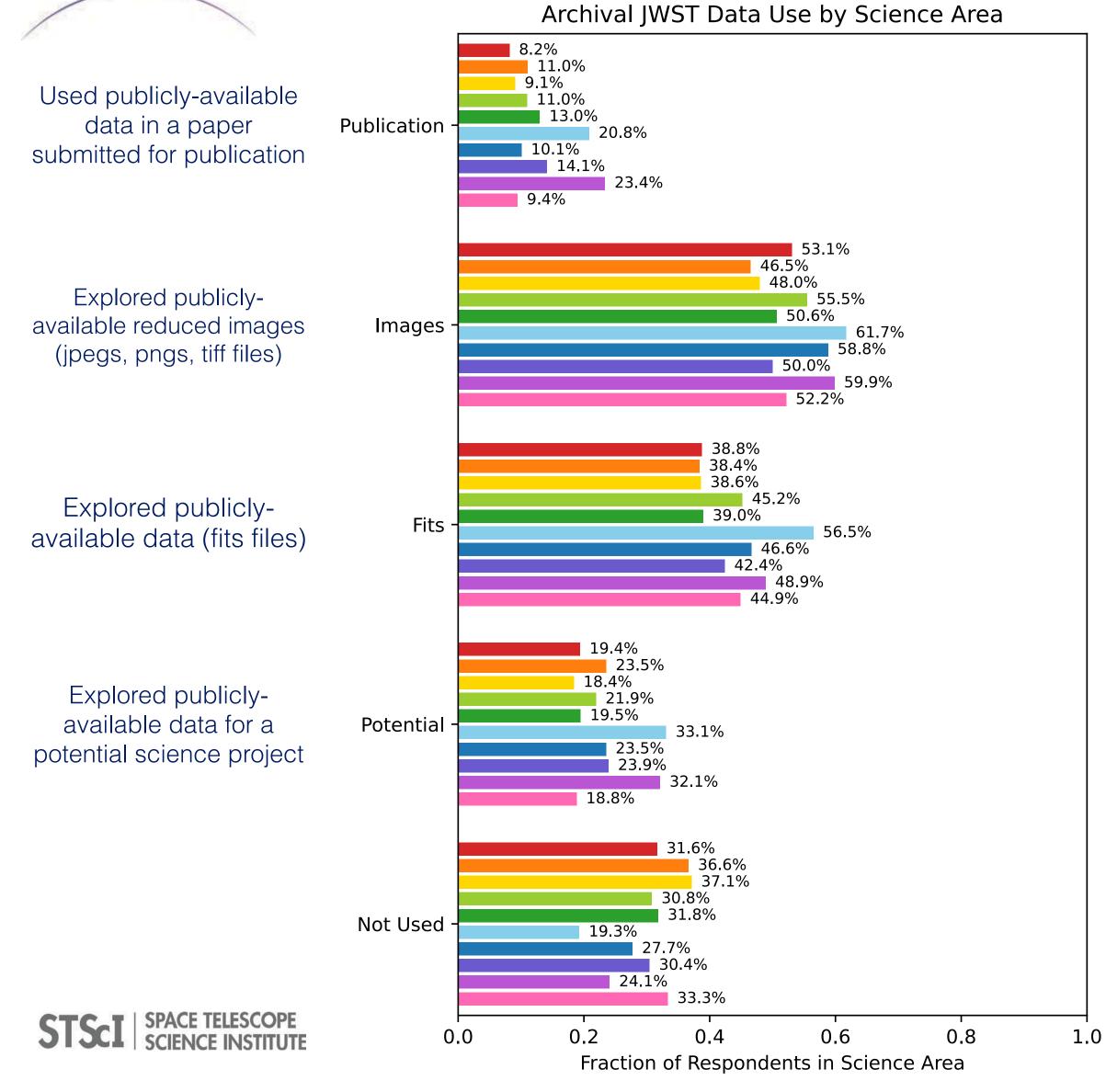
Archival Hubble Data Use by Science Area



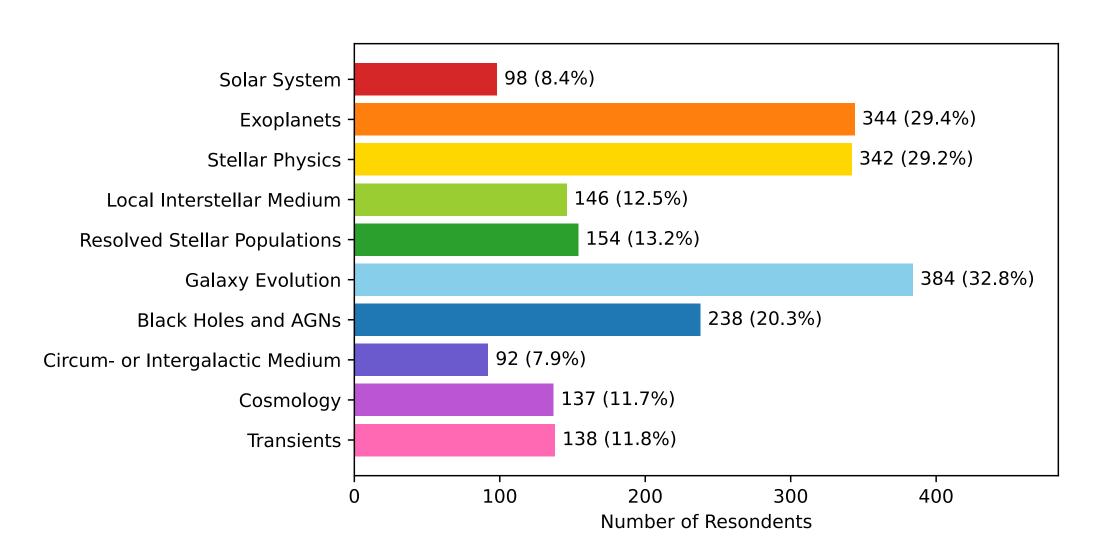




Archival JWST Data Use / Research Field

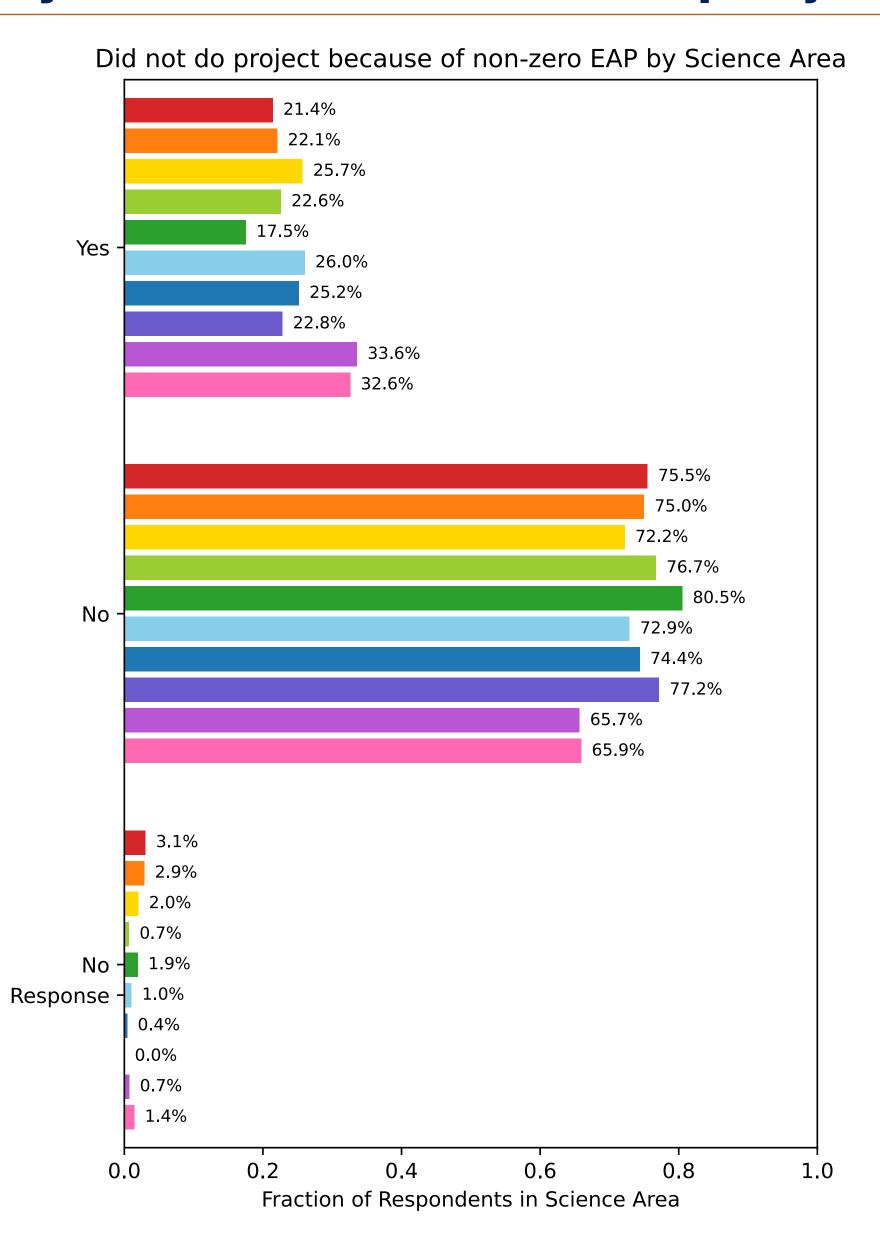


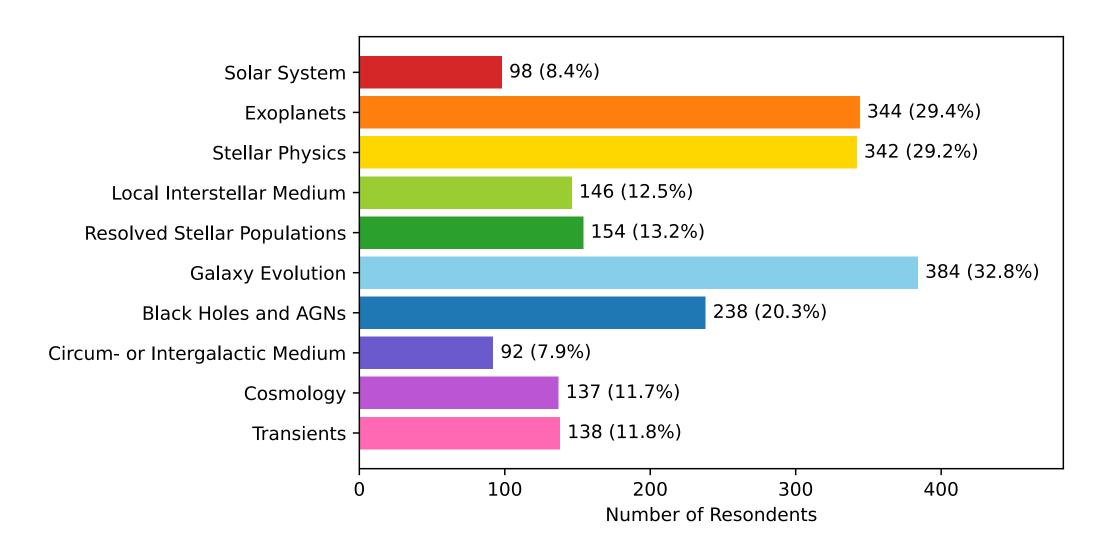
End Nov through mid Feb.





Have you ever not done a project because of EAP? / Research Field

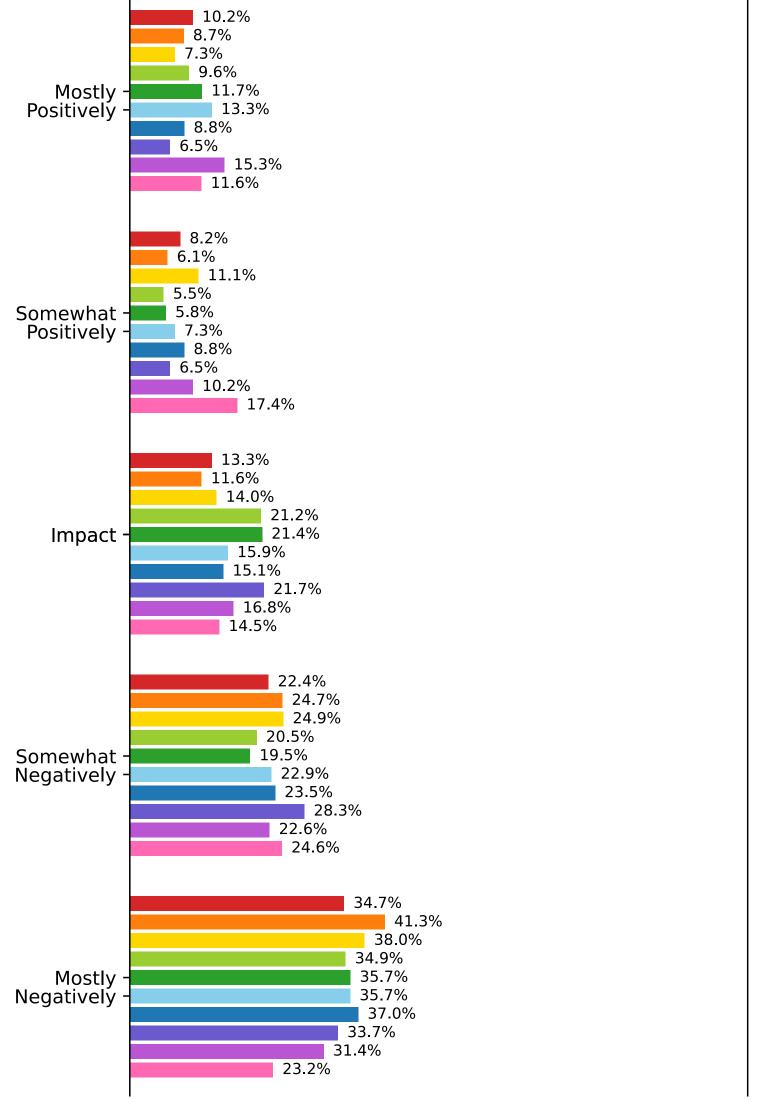


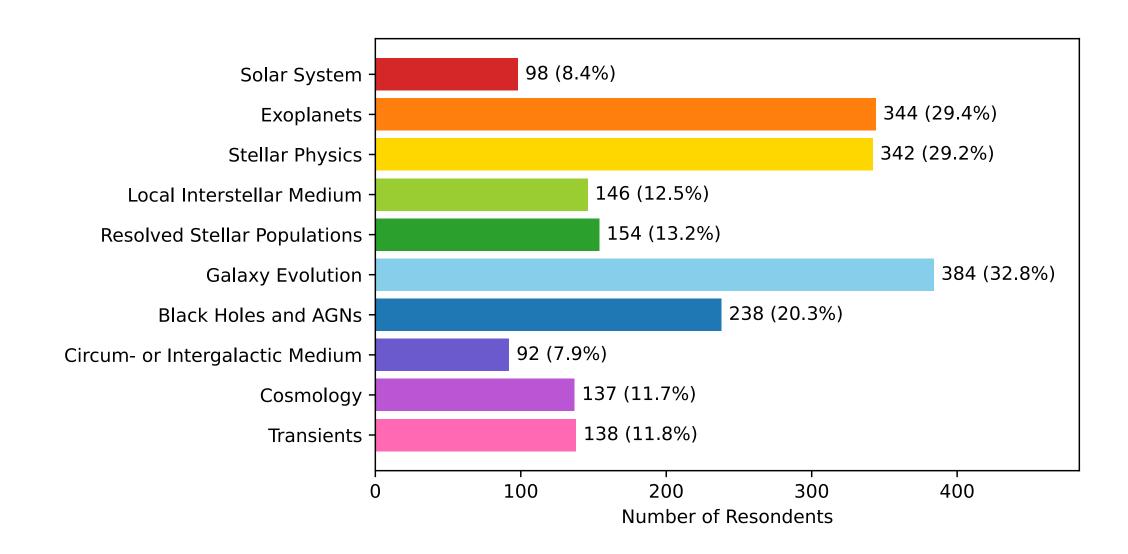




Effect of Zero EAP on research plans / Research Field

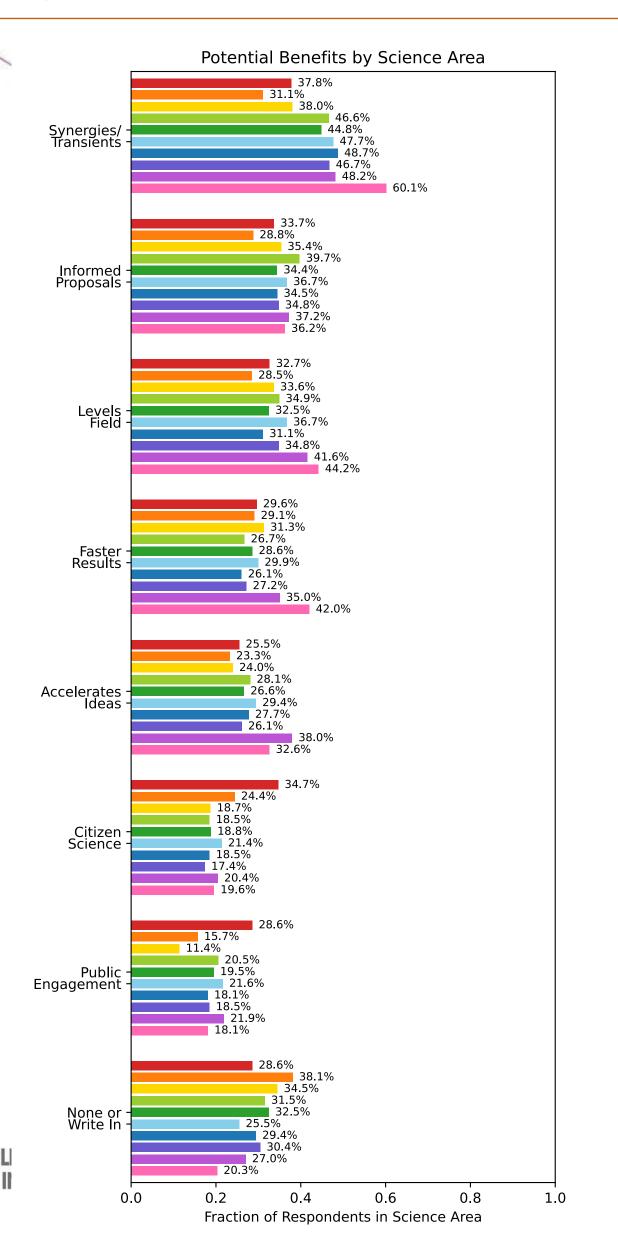


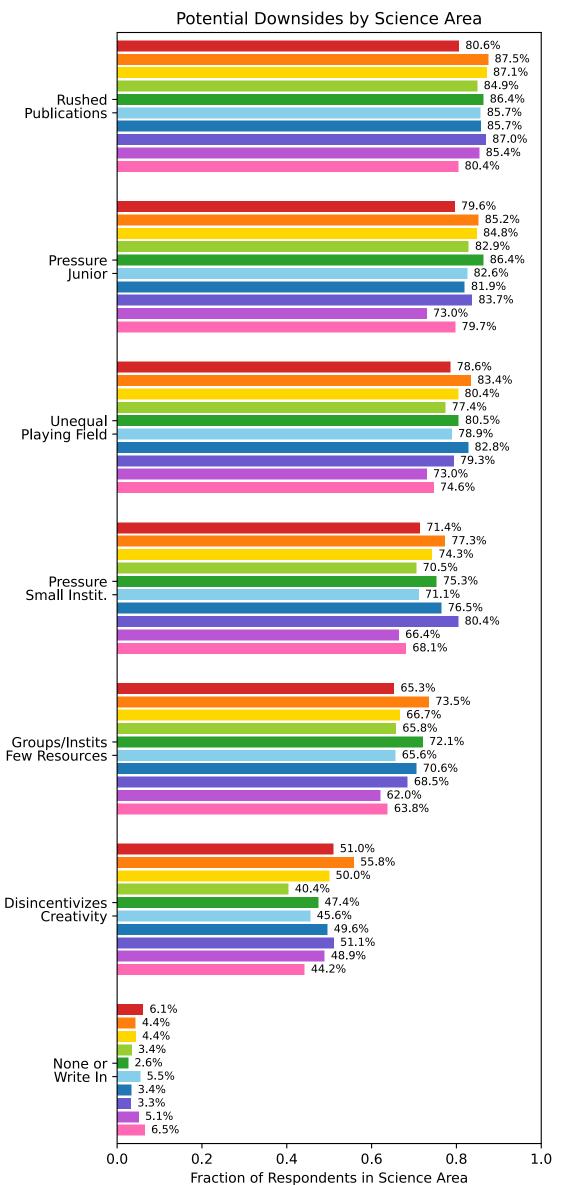


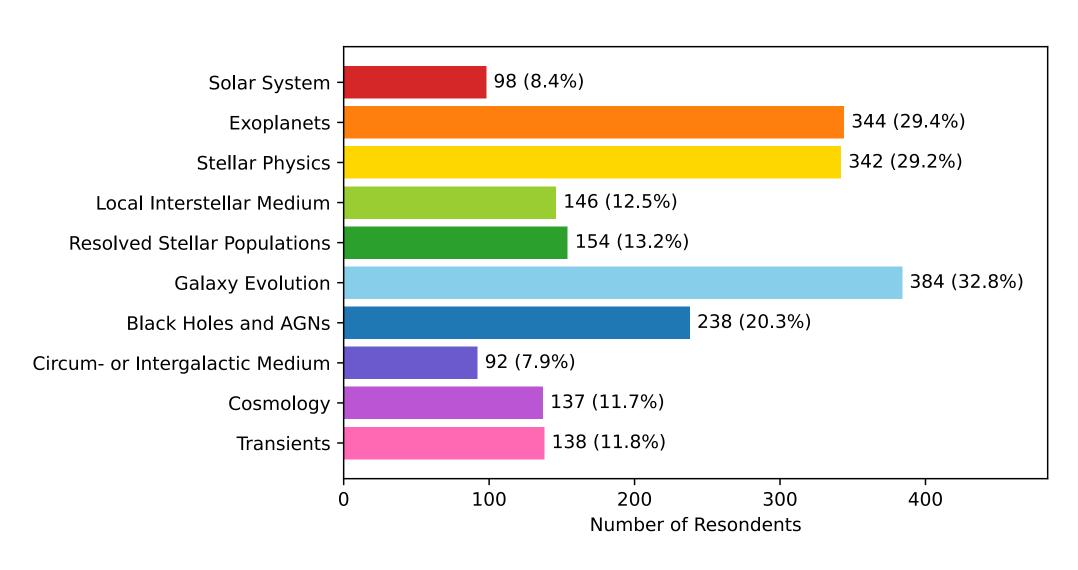




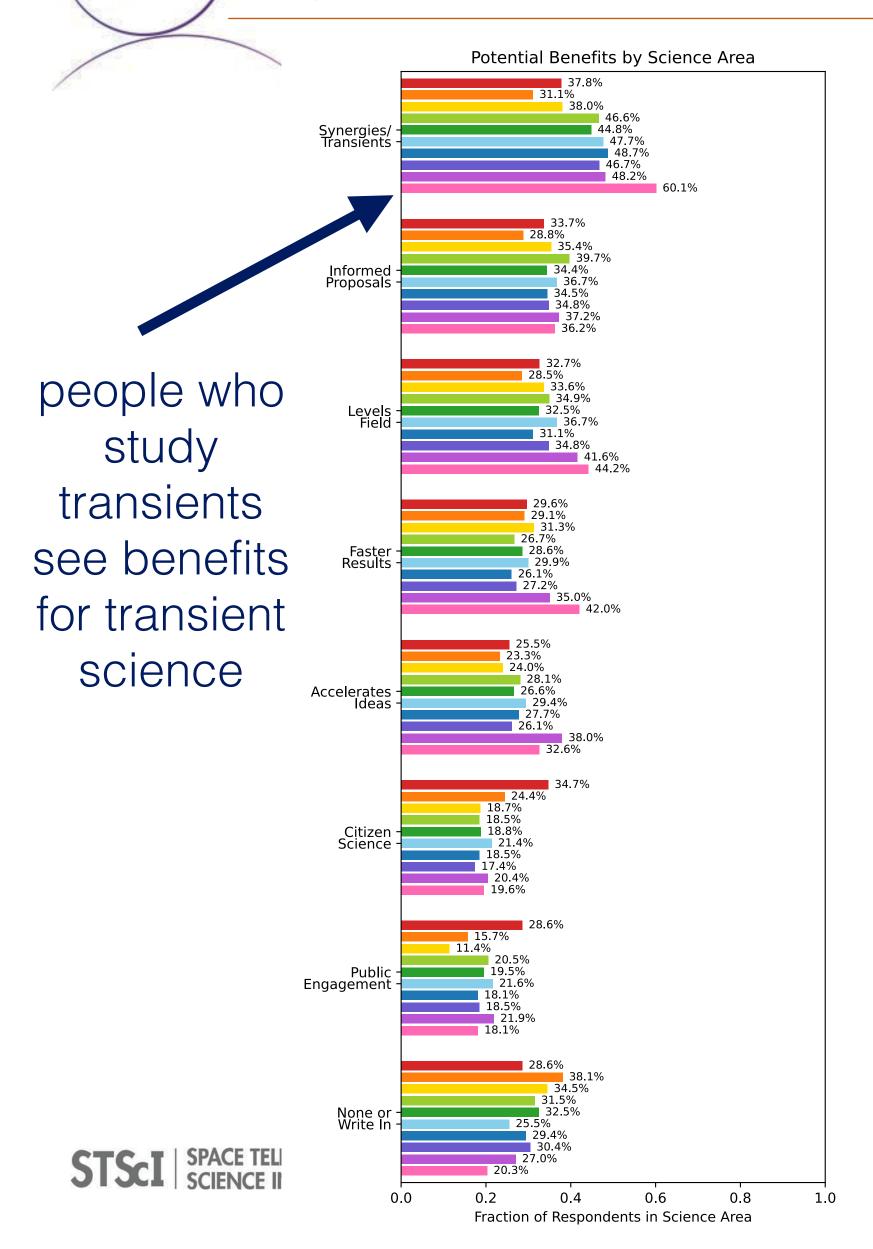
Potential Benefits/Downsides of Reduced EAP / Research Field

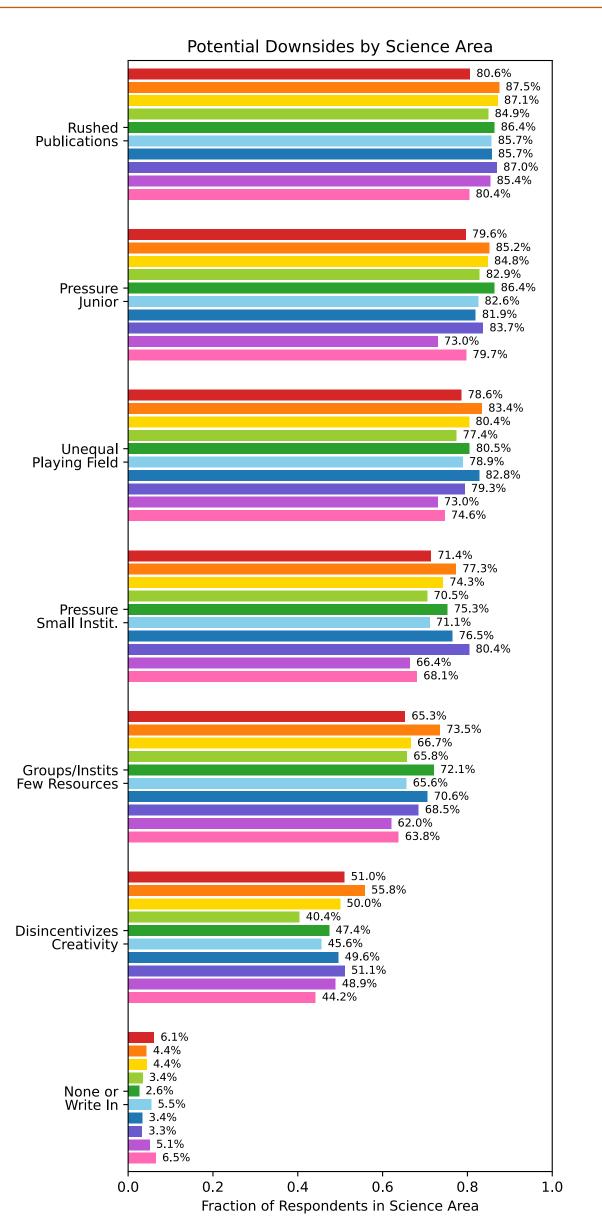


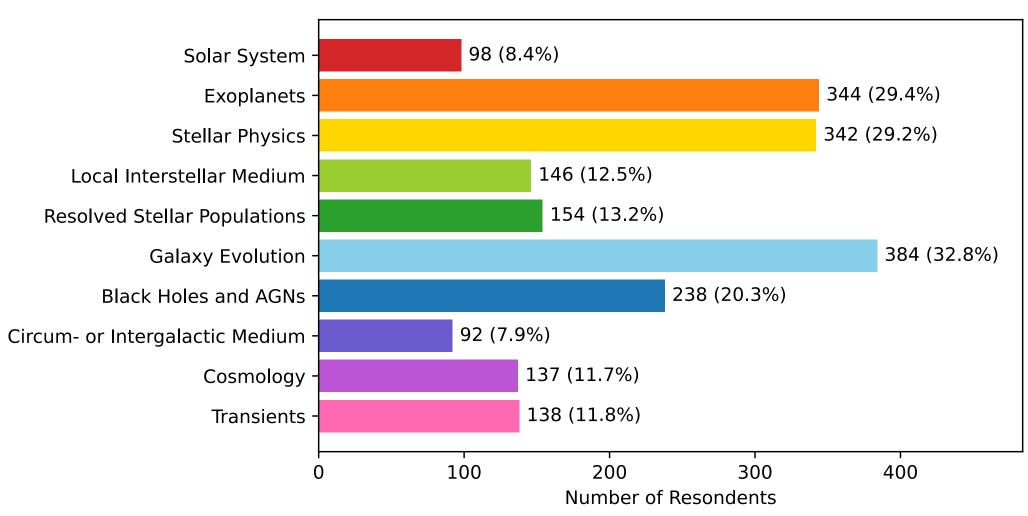




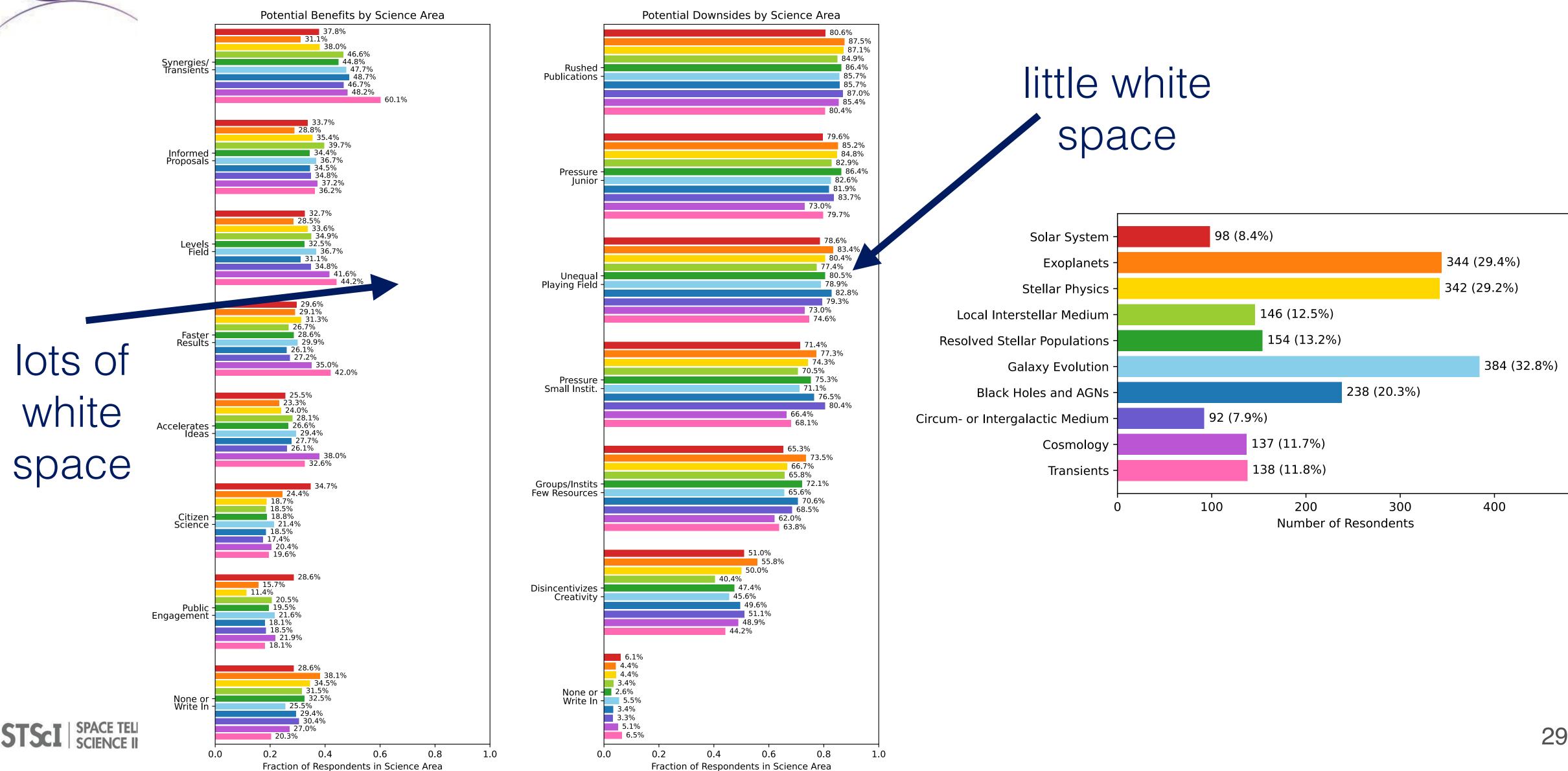
Potential Benefits/Downsides of Reduced EAP / Research Field





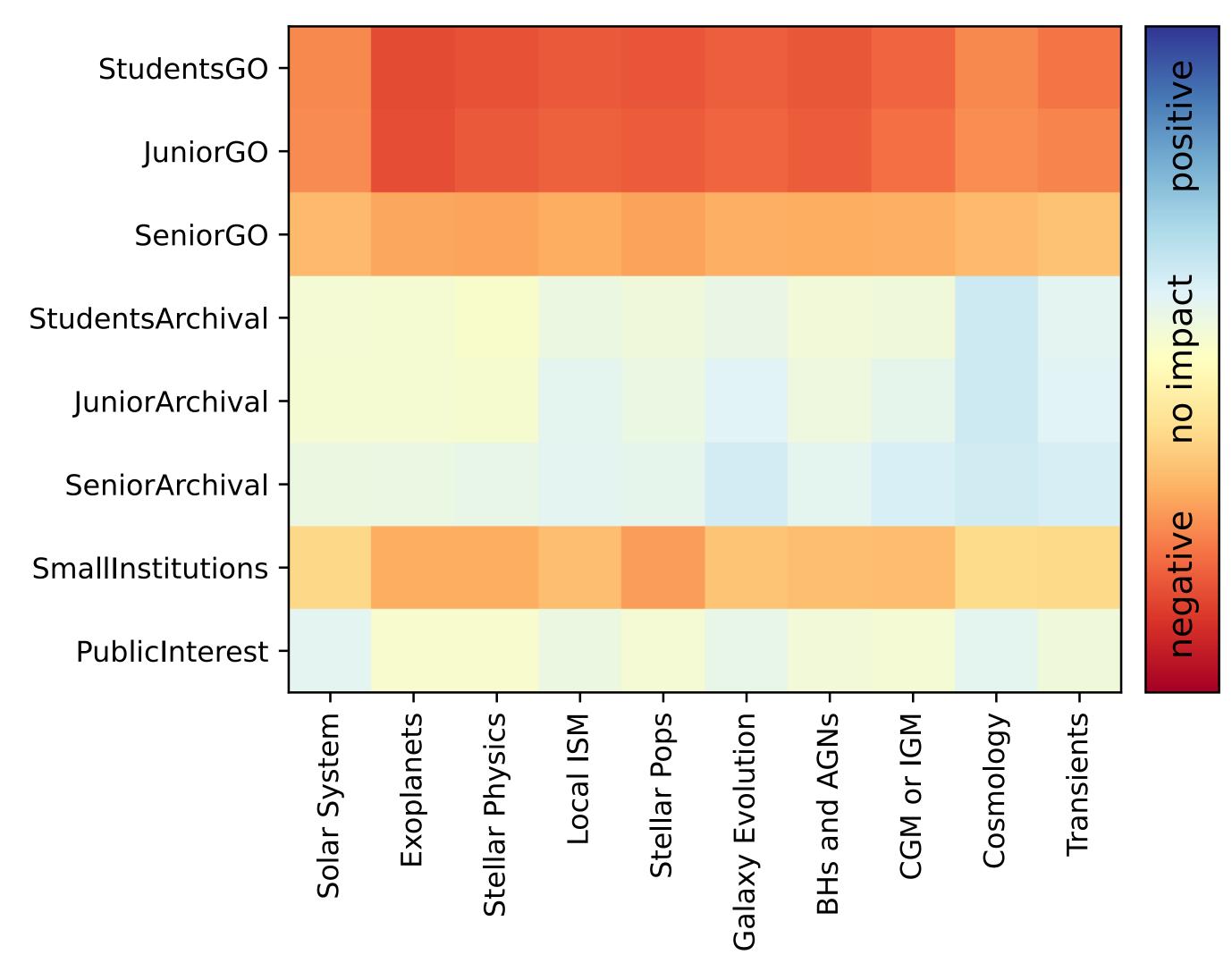


Potential Benefits/Downsides of Reduced EAP / Research Field





Impacts of reduced or zero EAP / Research Field



+2: mostly positive

+1: somewhat positive

0 : no impact

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-2: mostly negative

Calculated average of responses in each bin.

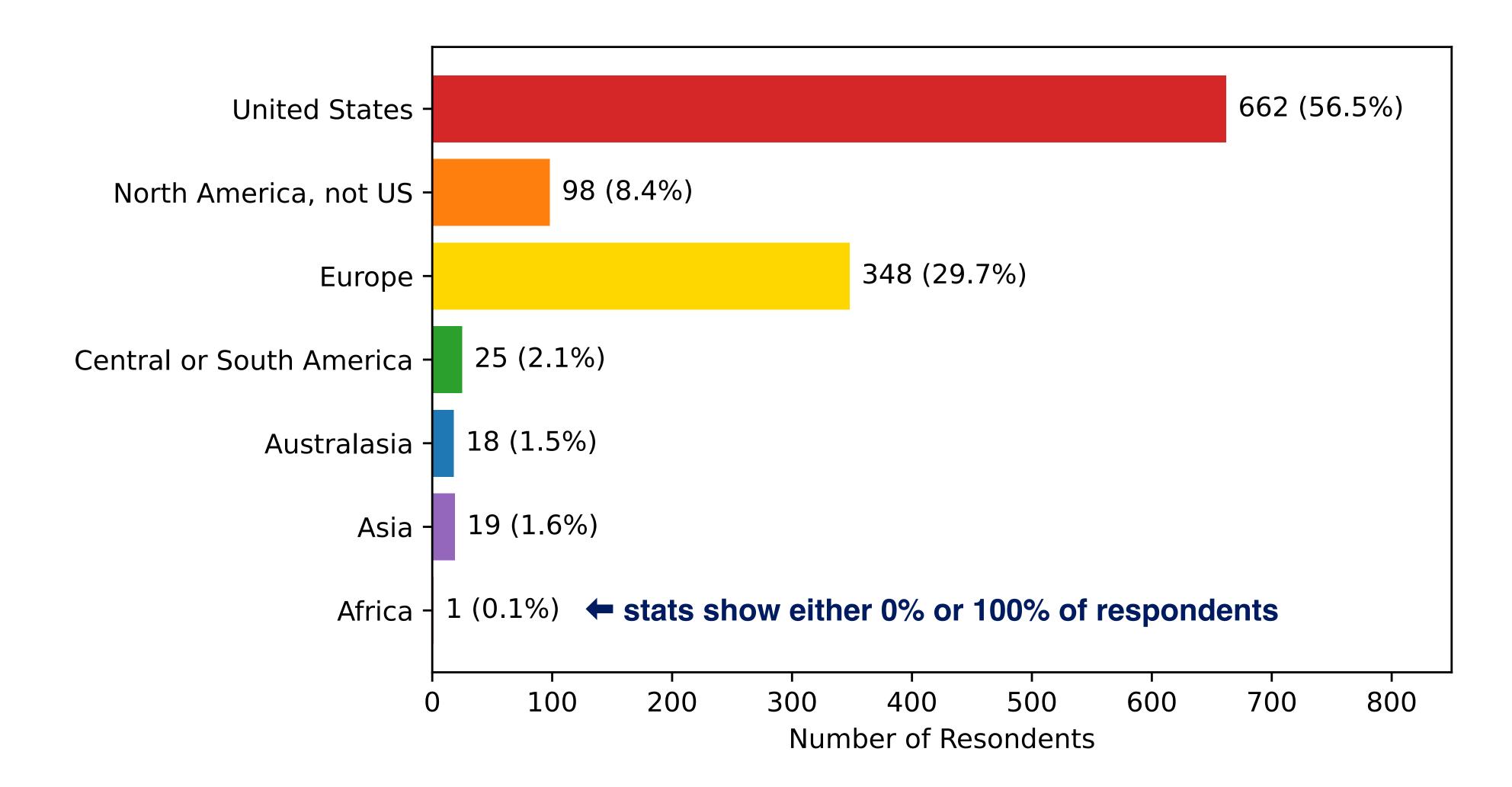




Geographic Region



Geographic Region

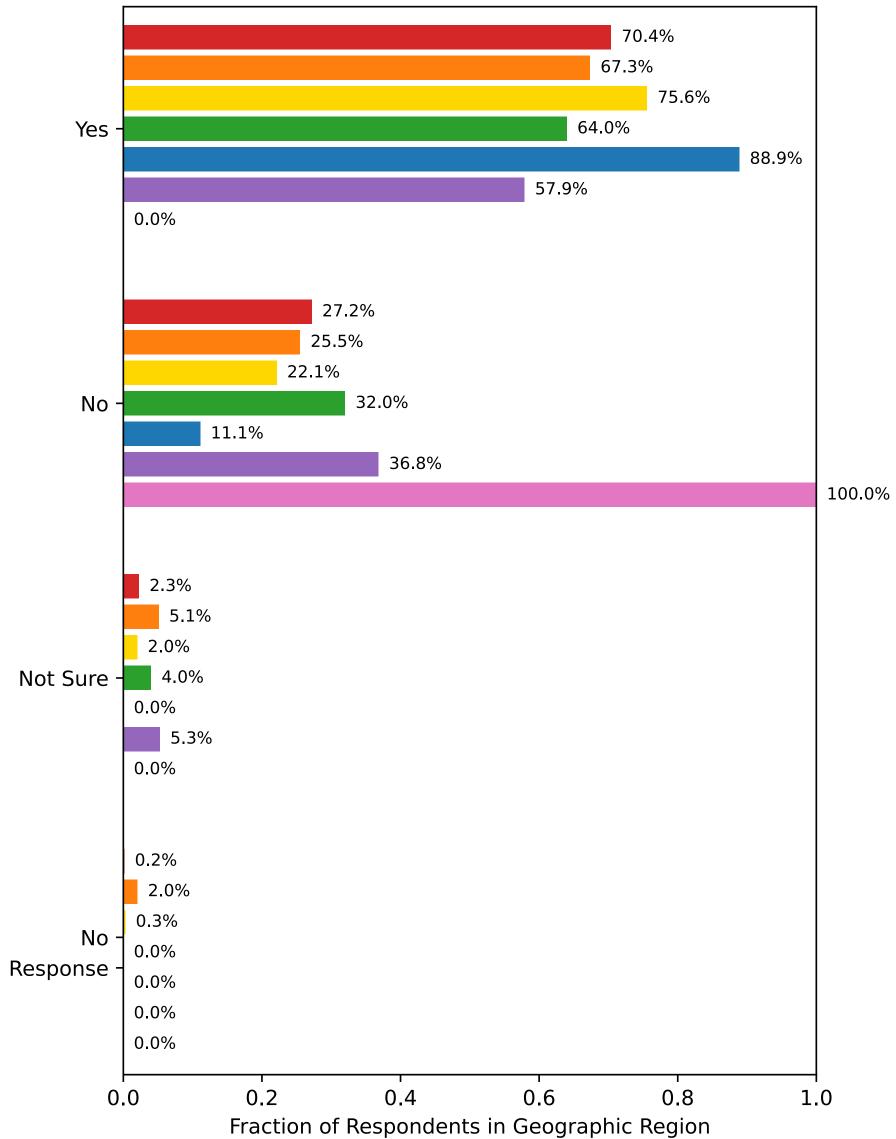


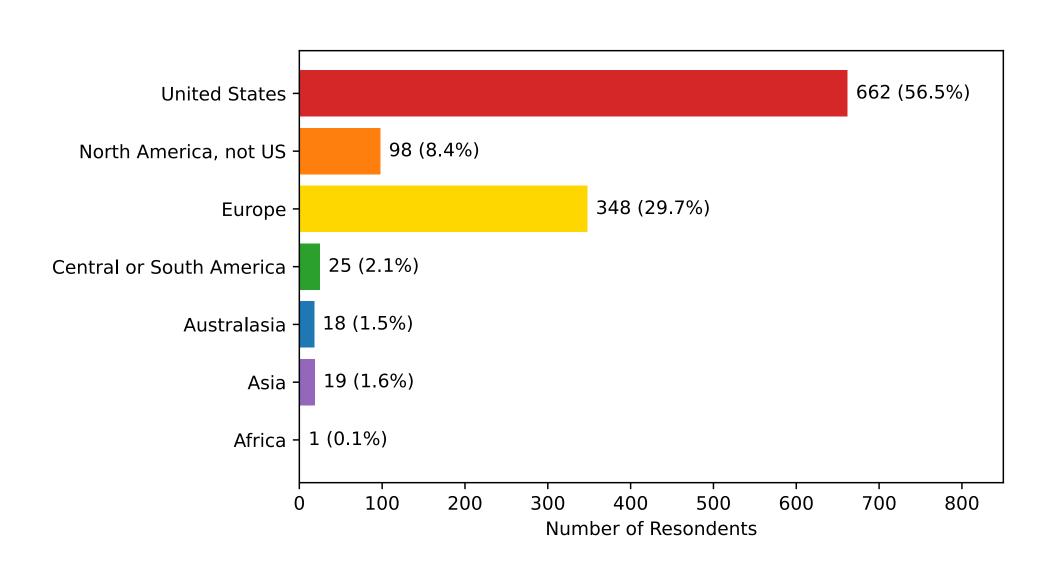




Archival HST Data Use / Geographic Region

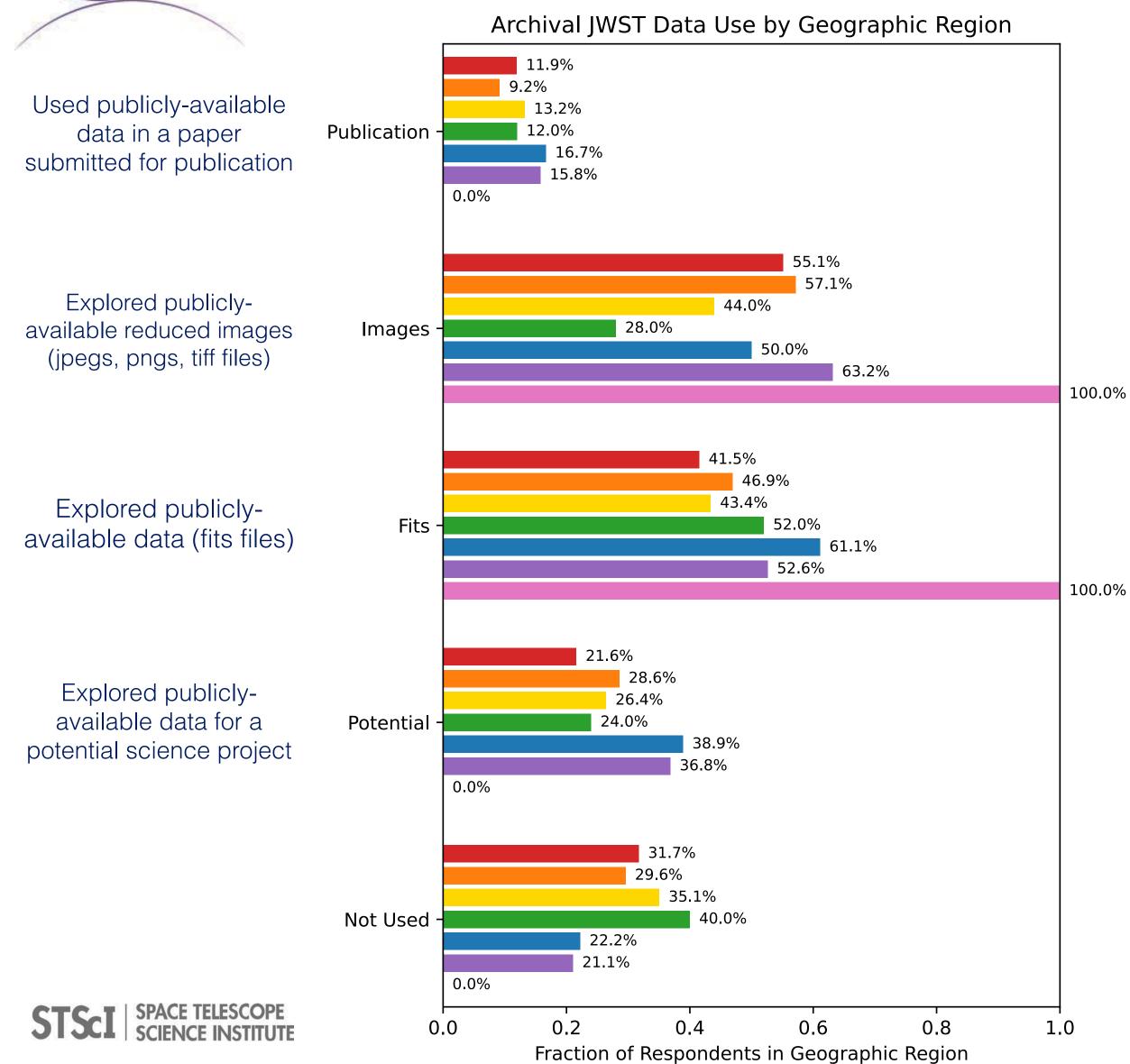




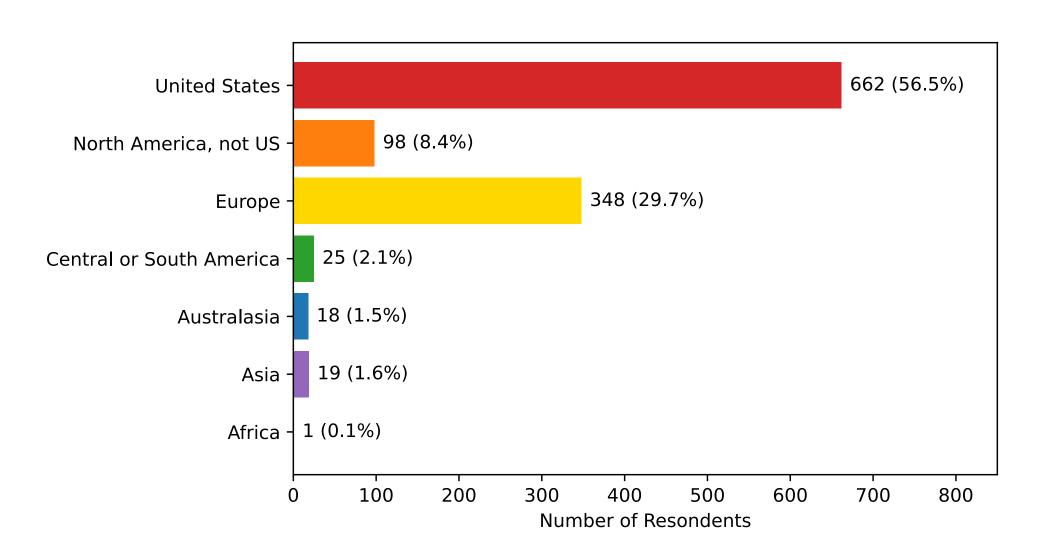




Archival JWST Data Use / Geographic Region

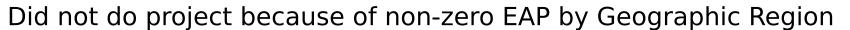


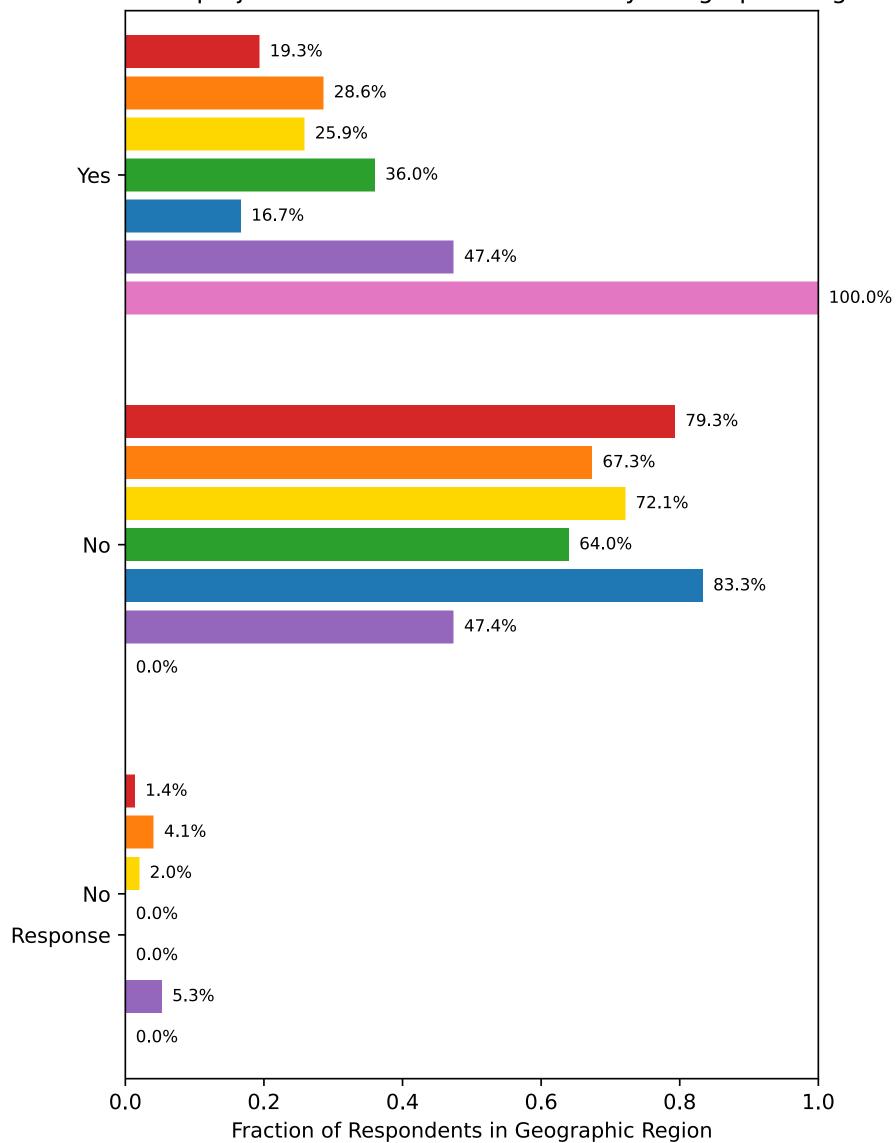
End Nov through mid Feb.

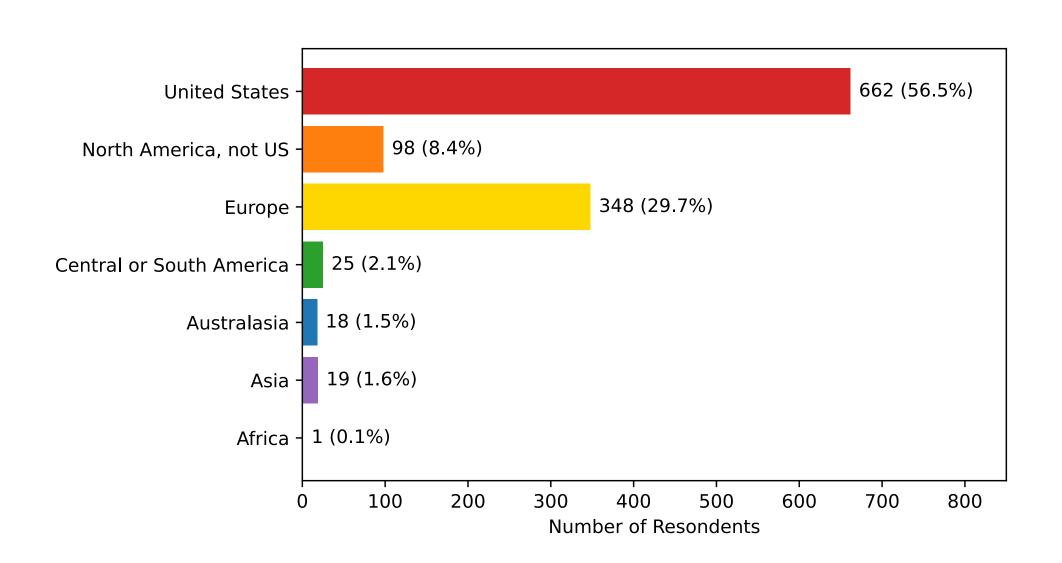




Have you ever not done a project because of EAP? / Geographic Region



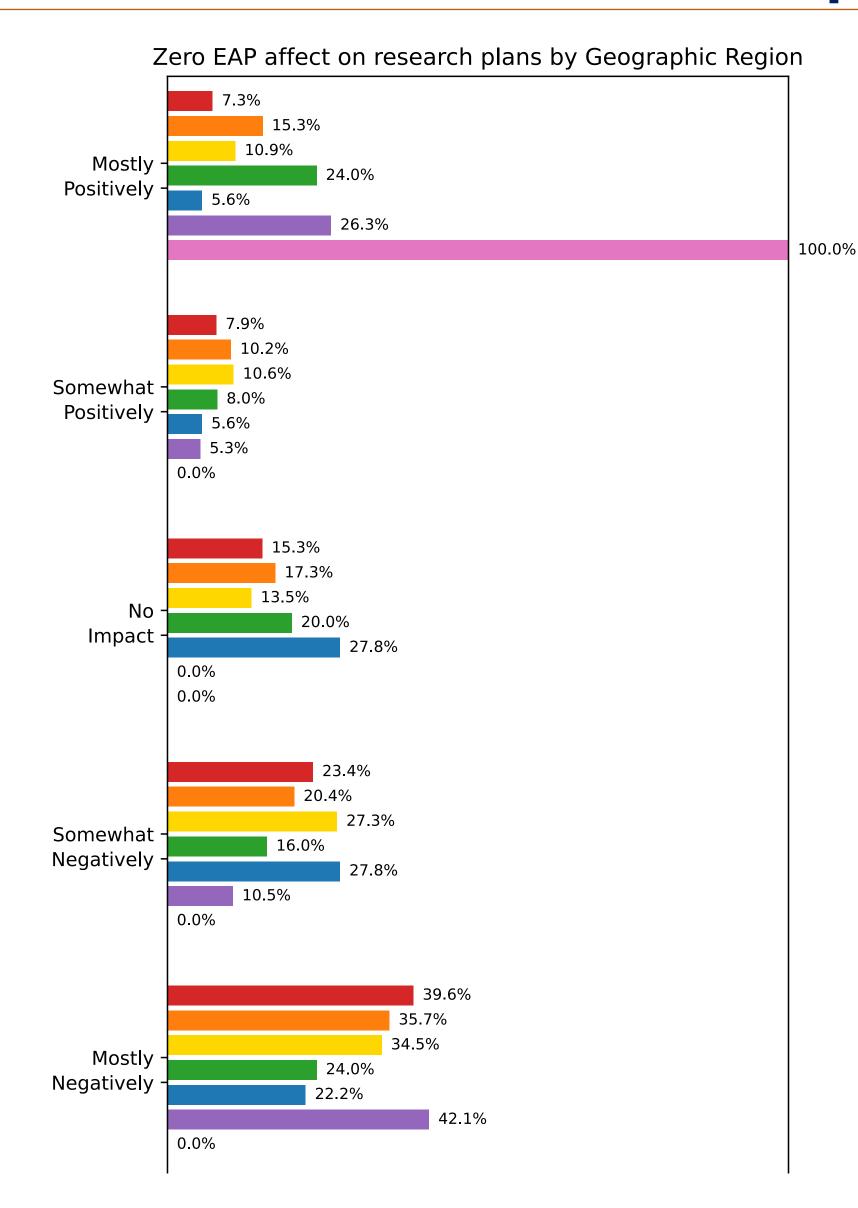


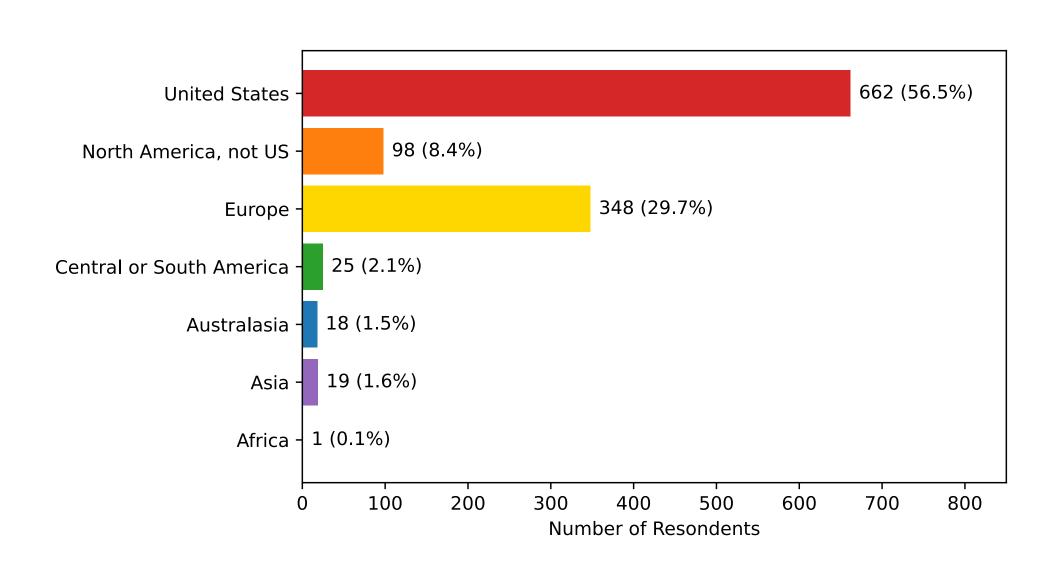






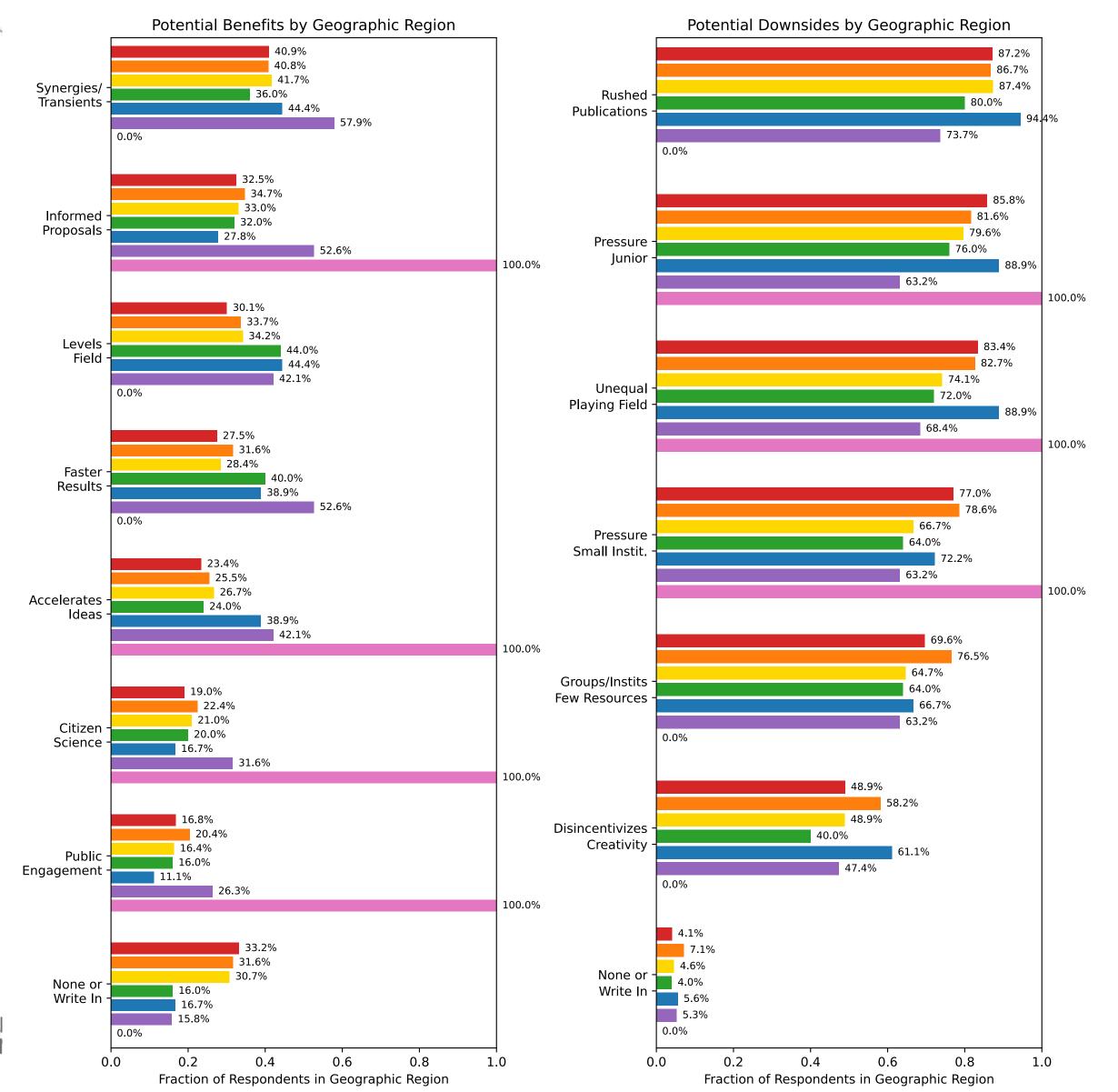
Effect of Zero EAP on research plans / Geographic Region

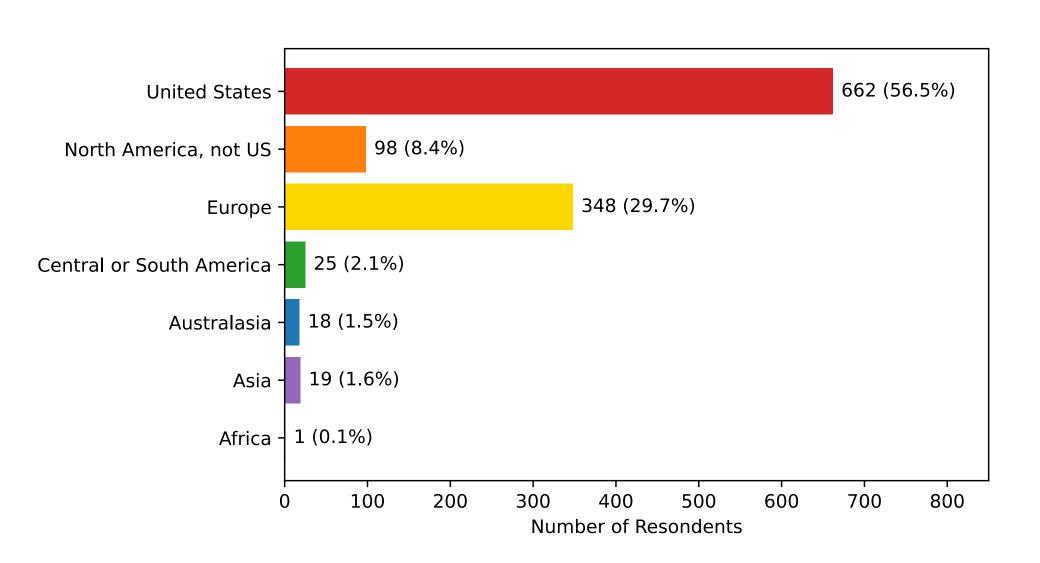




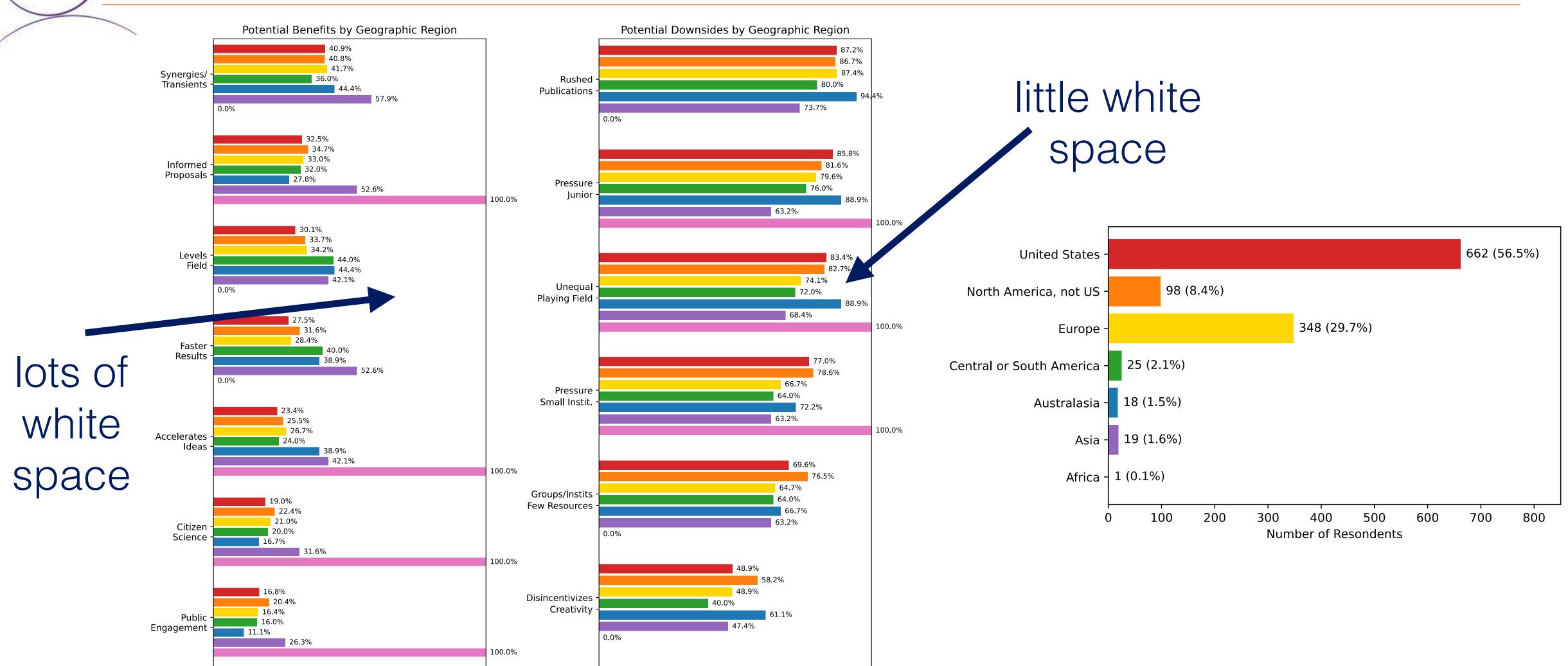


Potential Benefits/Downsides of Reduced EAP / Geographic Region





Potential Benefits/Downsides of Reduced EAP / Geographic Region



0.6

Fraction of Respondents in Geographic Region

Write In - 5.6%

0.0%

33.2% 31.6%

0.4

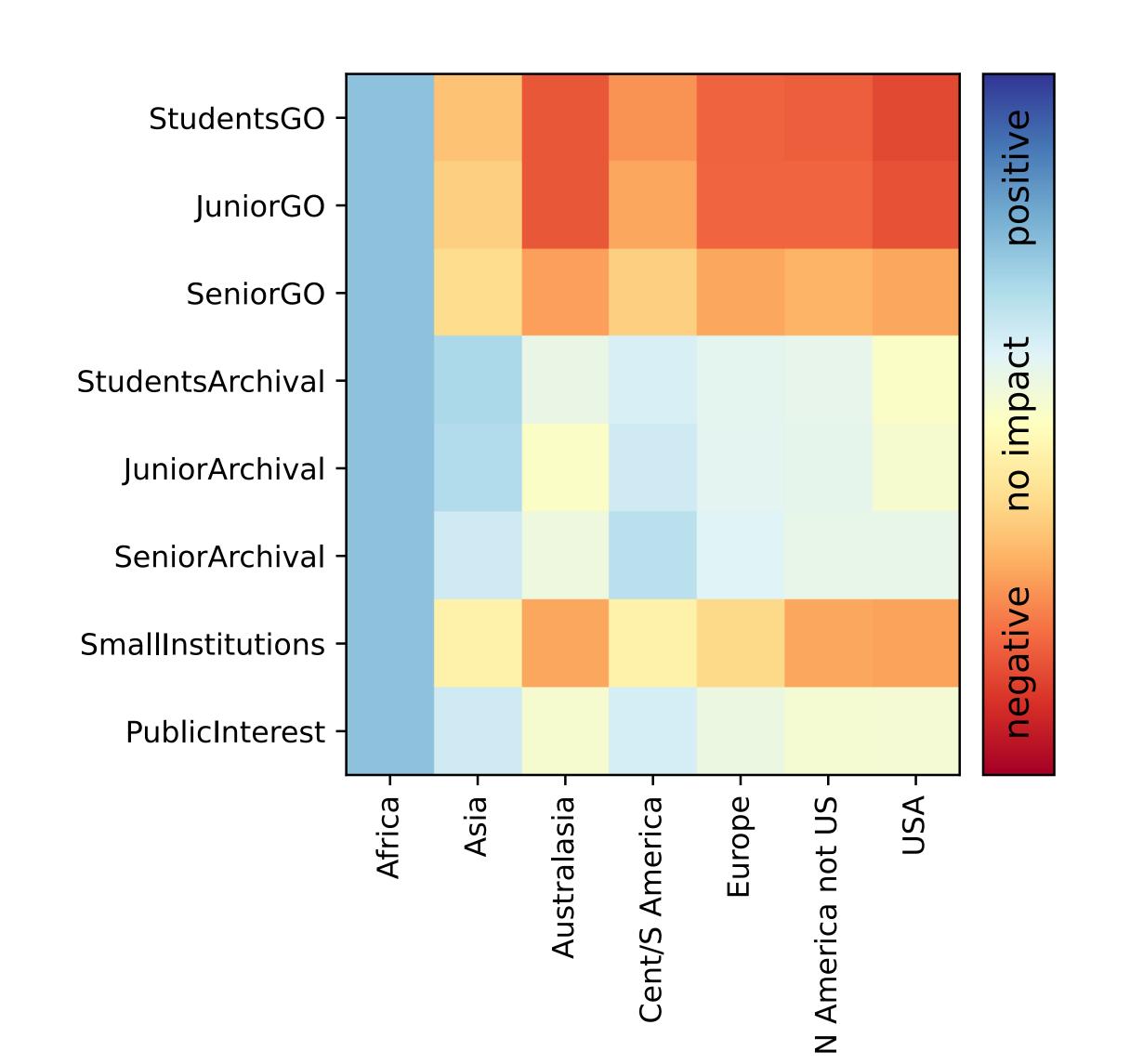
Fraction of Respondents in Geographic Region

None or

Write In



Impacts of reduced or zero EAP / Geographic Region



+2: mostly positive

+1: somewhat positive

0 : no impact

-1 : somewhat negative

-2: mostly negative

Calculated average of responses in each bin.





Preliminary results so far

- A minority of the astronomy community favours moving to zero EAP.
- A majority does not favour moving to zero EAP and feels:
 - The disadvantages significantly outweigh the advantages.
 - Junior researchers (students and postdocs) and researchers at small/low-resource/teaching-heavy institutions will be most impacted.
 - These results do not vary with research field, career stage, or geographic region.
- A large fraction of the community had already explored JWST by mid-February. (Very likely more now 3 months later!)



Next Steps

- Finish analysing the survey and compile report.
- Form a working group including STUC and JSTUC members.
- Working group will review the report and provide input to the STScI Director (and NASA).

• Anticipated timeline: report ready by mid-October.





This is still a work in progress... More to come!

