



Atacama Large Millimeter/submillimeter Array
In search of our Cosmic Origins



Cycle 10 Proposal Submission Statistics

Joint ALMA Observatory

June 26, 2023





Number of submitted proposals and time requested



| | Number of proposals | Time requested (hours) | | |
|----------------|---------------------|------------------------|--------|-------------|
| | | 12-m | 7-m | Total Power |
| All proposals | 1679 | 29,508 | 16,109 | 15,904 |
| ACA standalone | 91 | - | 3891 | 2653 |
| Large Programs | 44 | 4964 | 4148 | 4448 |



Time requested by region



| | All | Chile | East Asia | Europe | North America | Other |
|---------------------------------------|--------|-------|-----------|--------|---------------|----------|
| 12-m Array time (hours) | 29,508 | 1508 | 5940 | 12,177 | 9196 | 687 |
| Offered | 4300 | 430 | 968 | 1451 | 1451 | see note |
| Subscription | 6.9 | 3.5 | 6.2 | 8.4 | 6.4 | N/A |
| 7-m Array time (hours) | 16,108 | 1299 | 3263 | 6098 | 5256 | 193 |
| Total Power Array time (hours) | 15,904 | 792 | 4362 | 5733 | 4894 | 121 |

Note: All regions contribute observing time for proposals from PIs who are not affiliated with any of the ALMA regions.



Joint Proposals

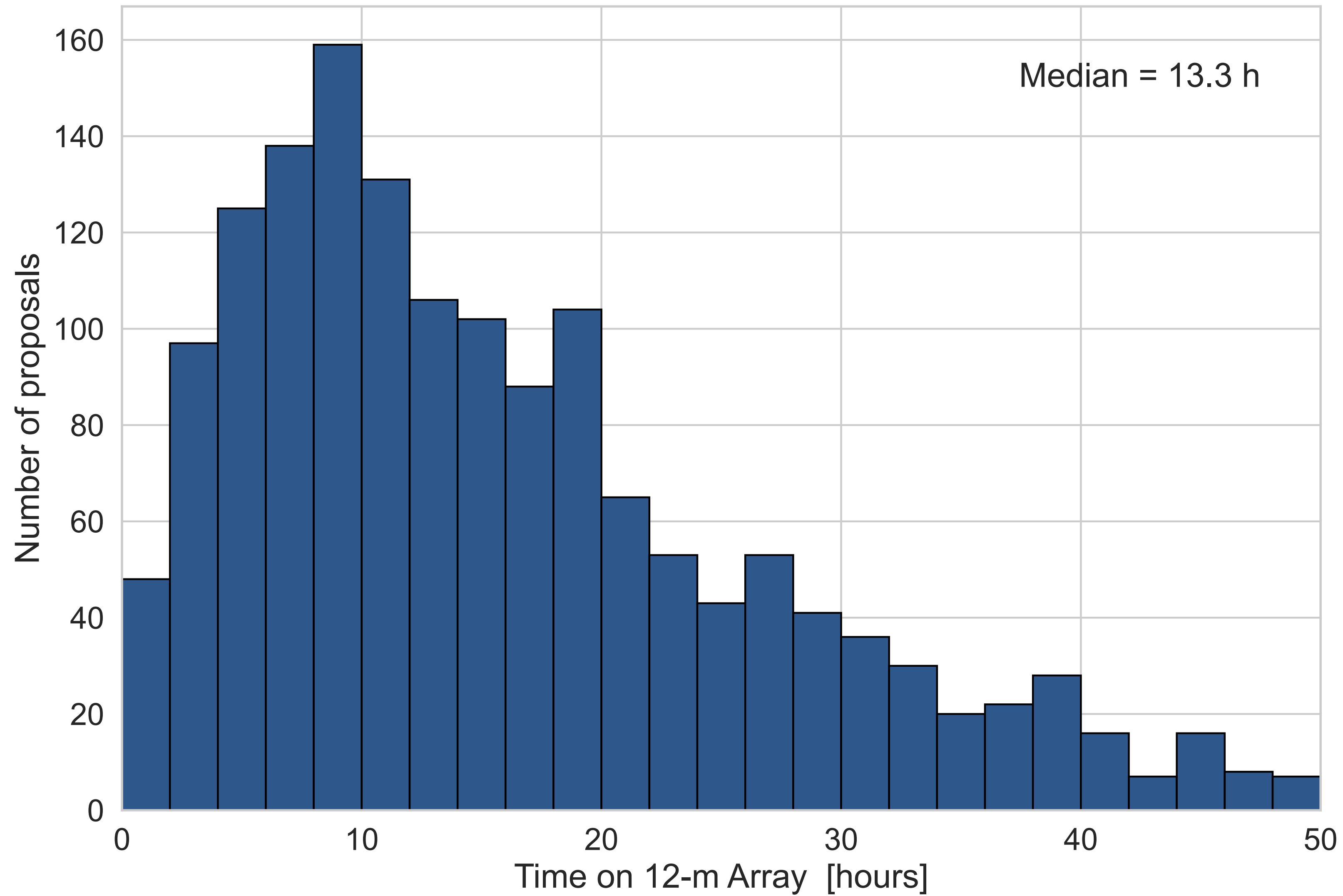


| Partner Observatory | Number of proposals* | Time requested on Partner Observatory |
|---------------------|----------------------|---------------------------------------|
| JWST | 26 | 204 h |
| VLA | 10 | 115 h |
| VLT | 10 | 88 h |

*42 Joint Proposals submitted in Cycle 10, as 3 proposals requested time on 2 or more partner observatories.



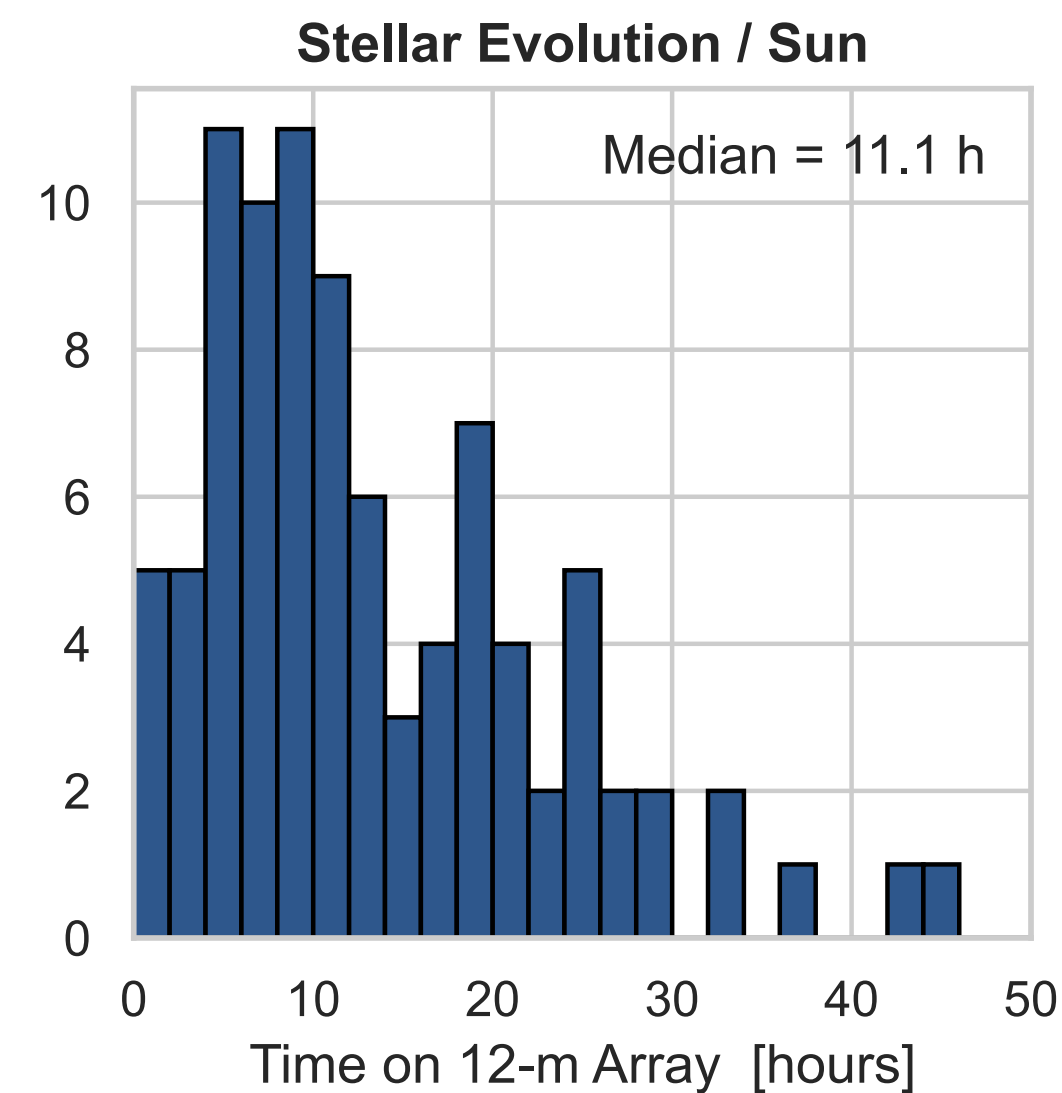
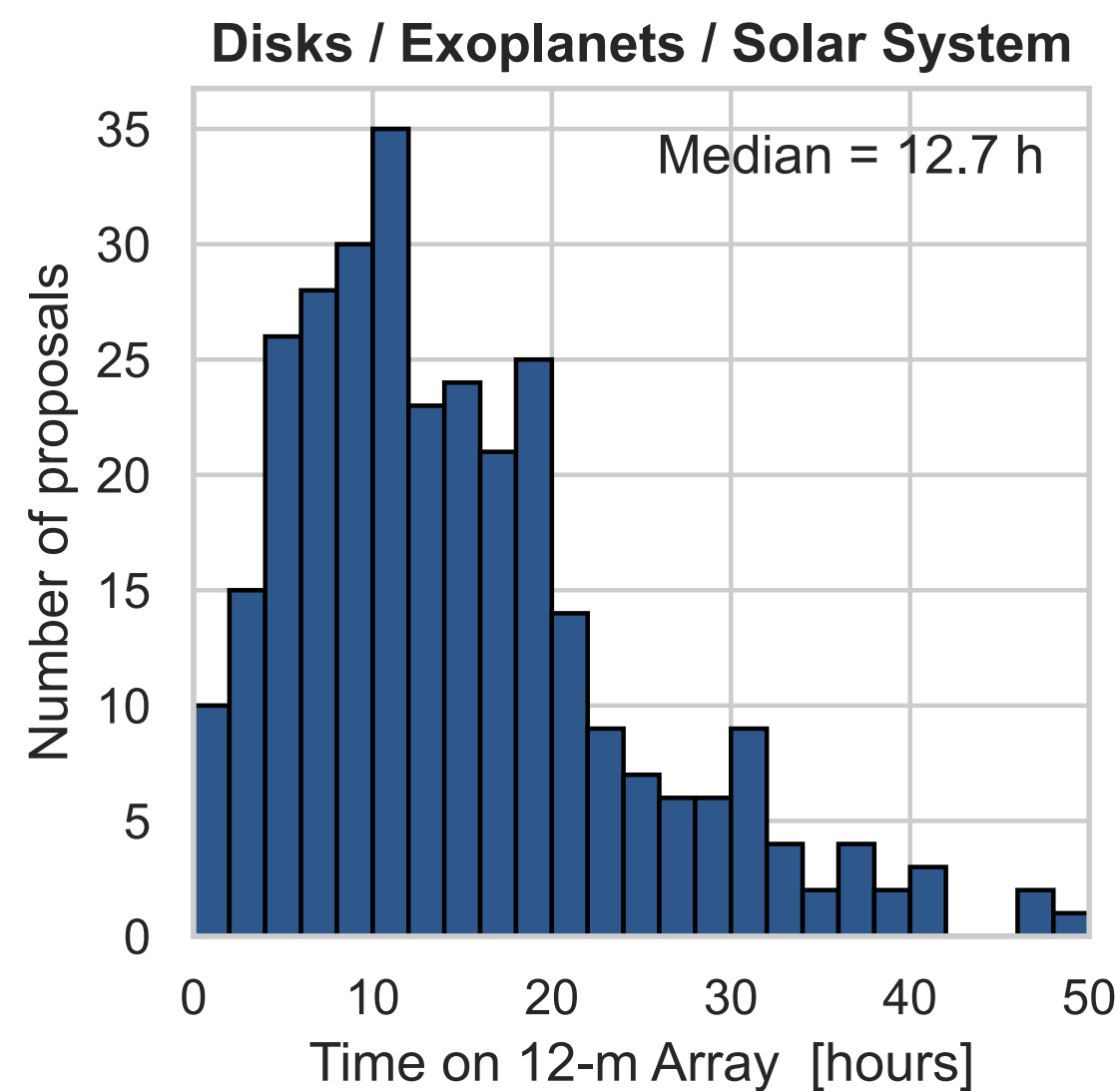
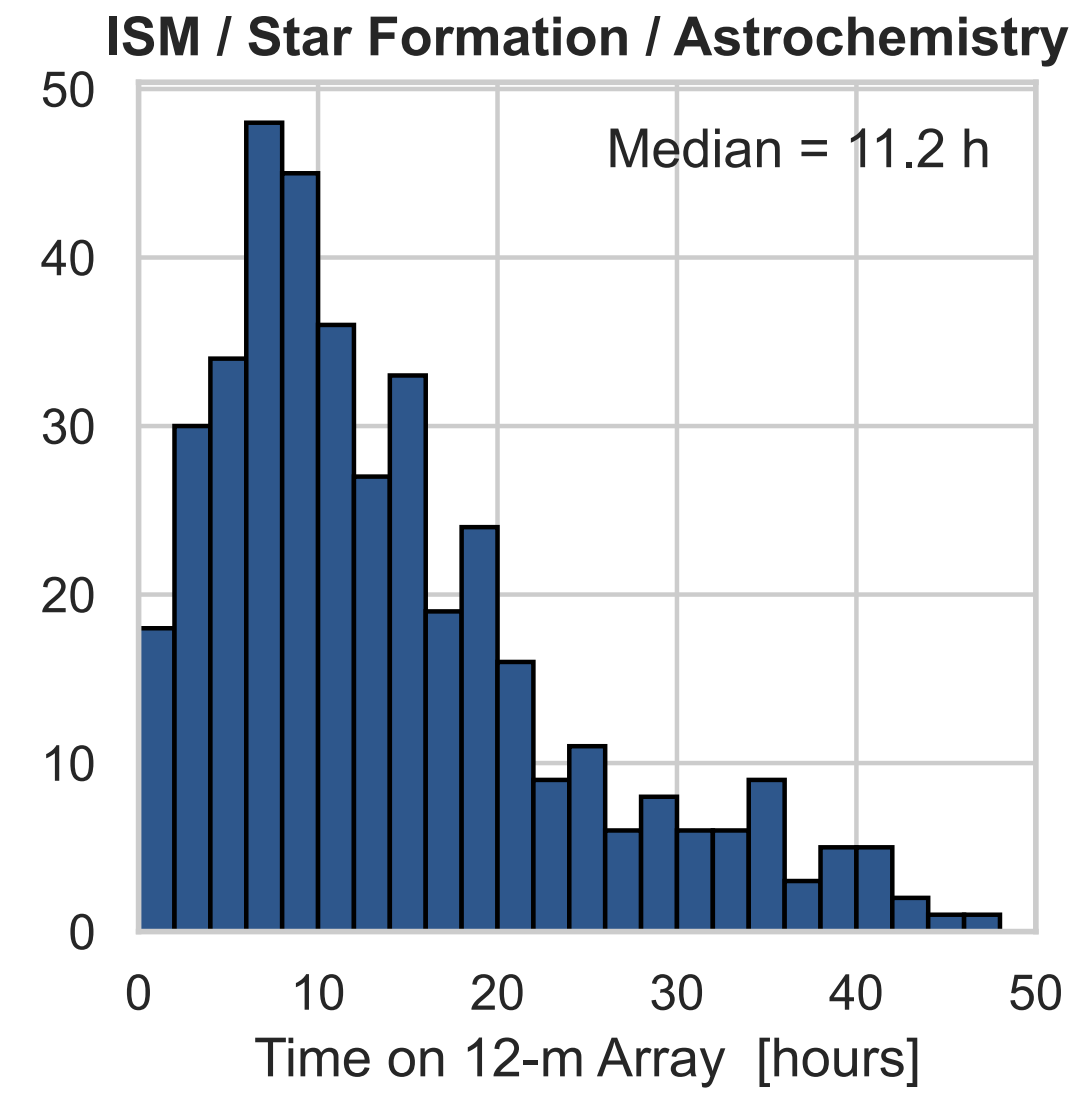
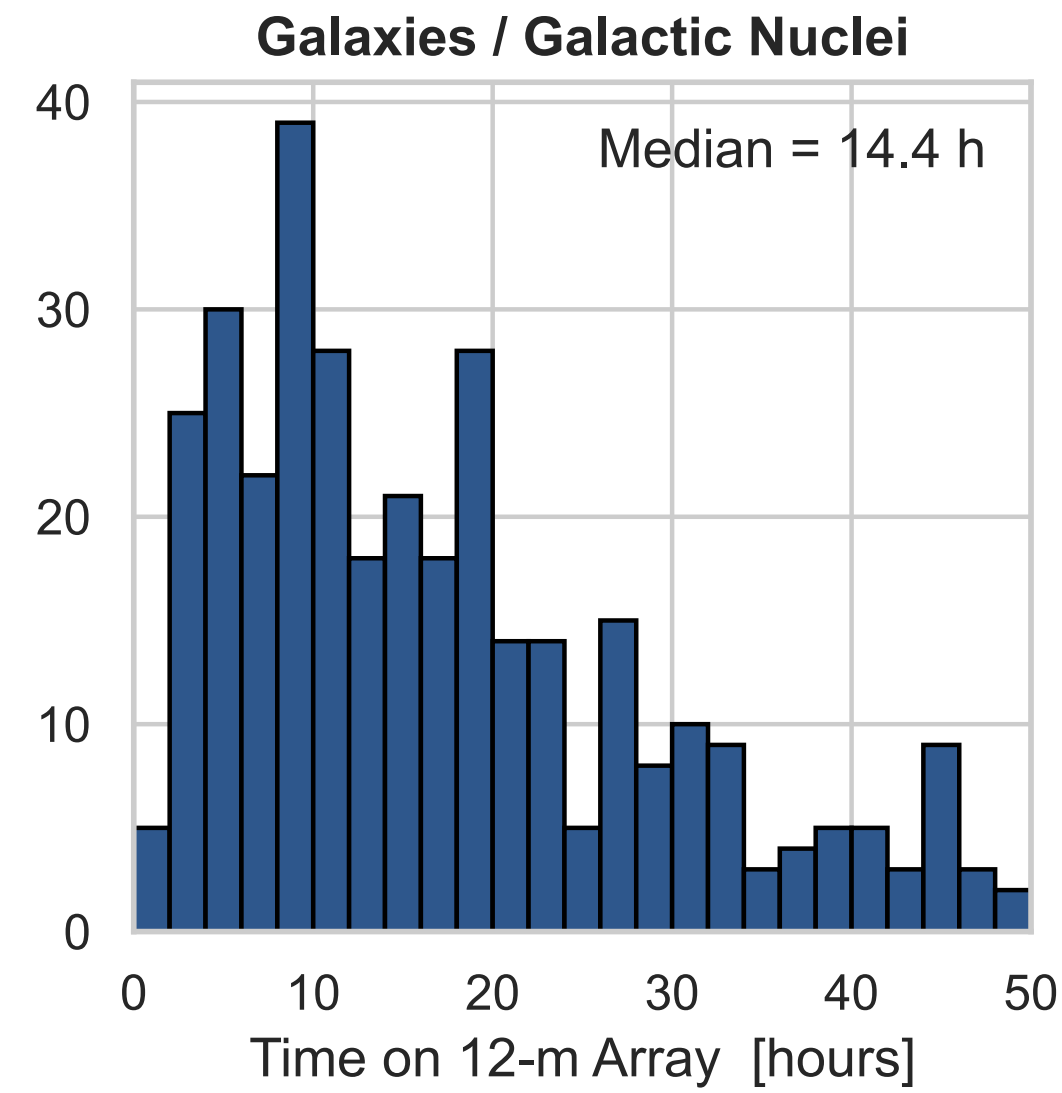
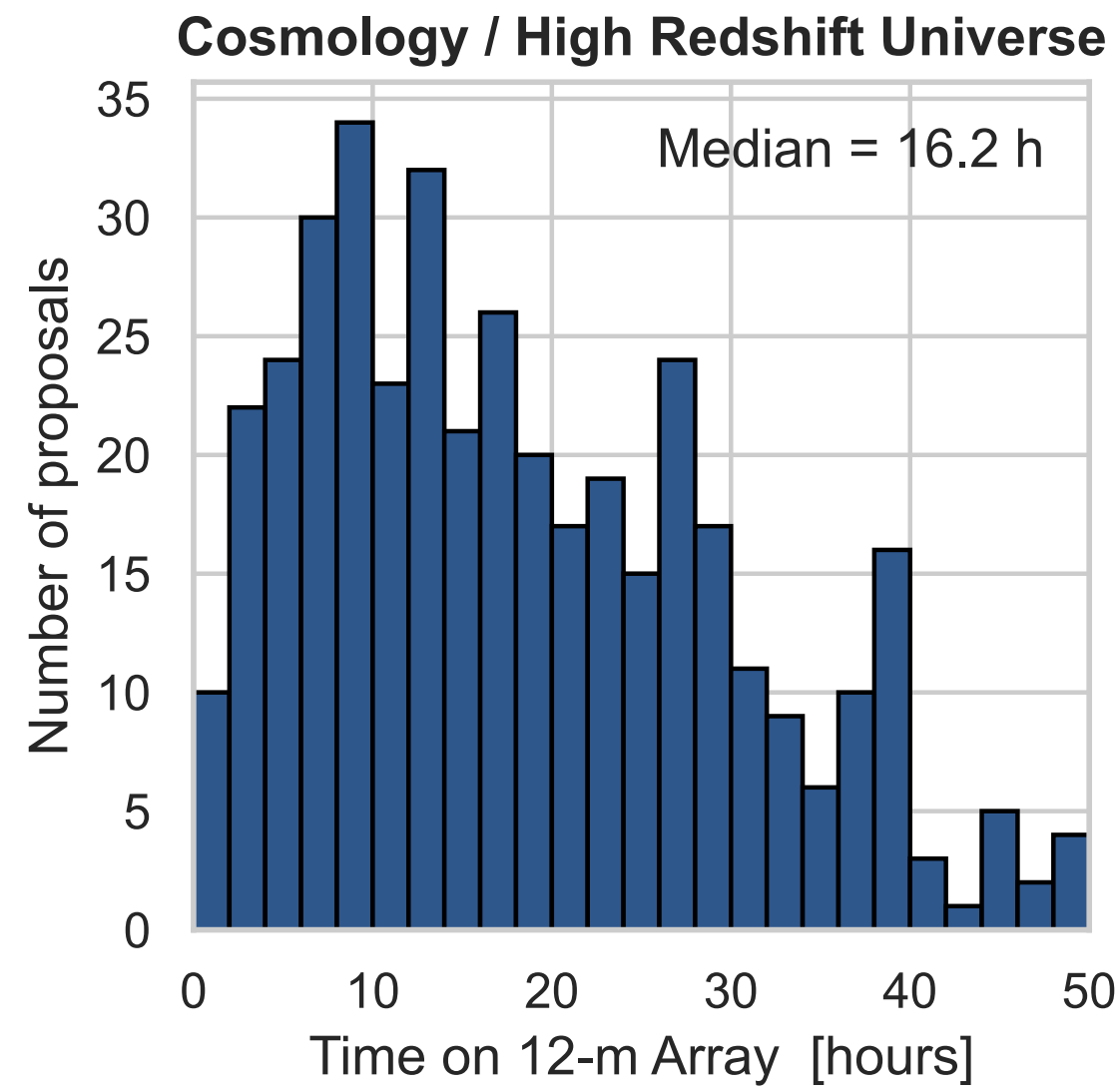
Requested 12-m Array Time per Proposal*



*Excluding Large Programs



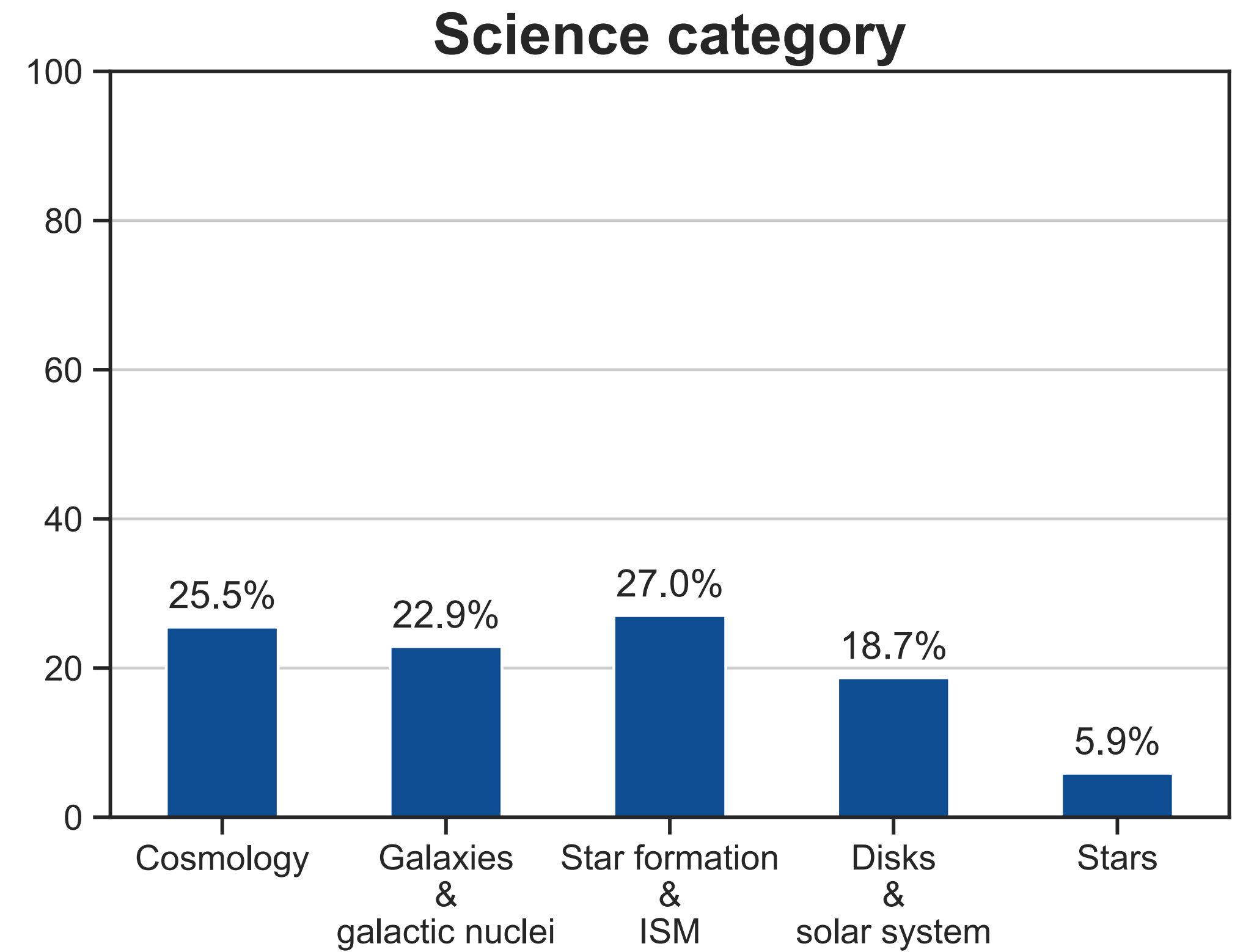
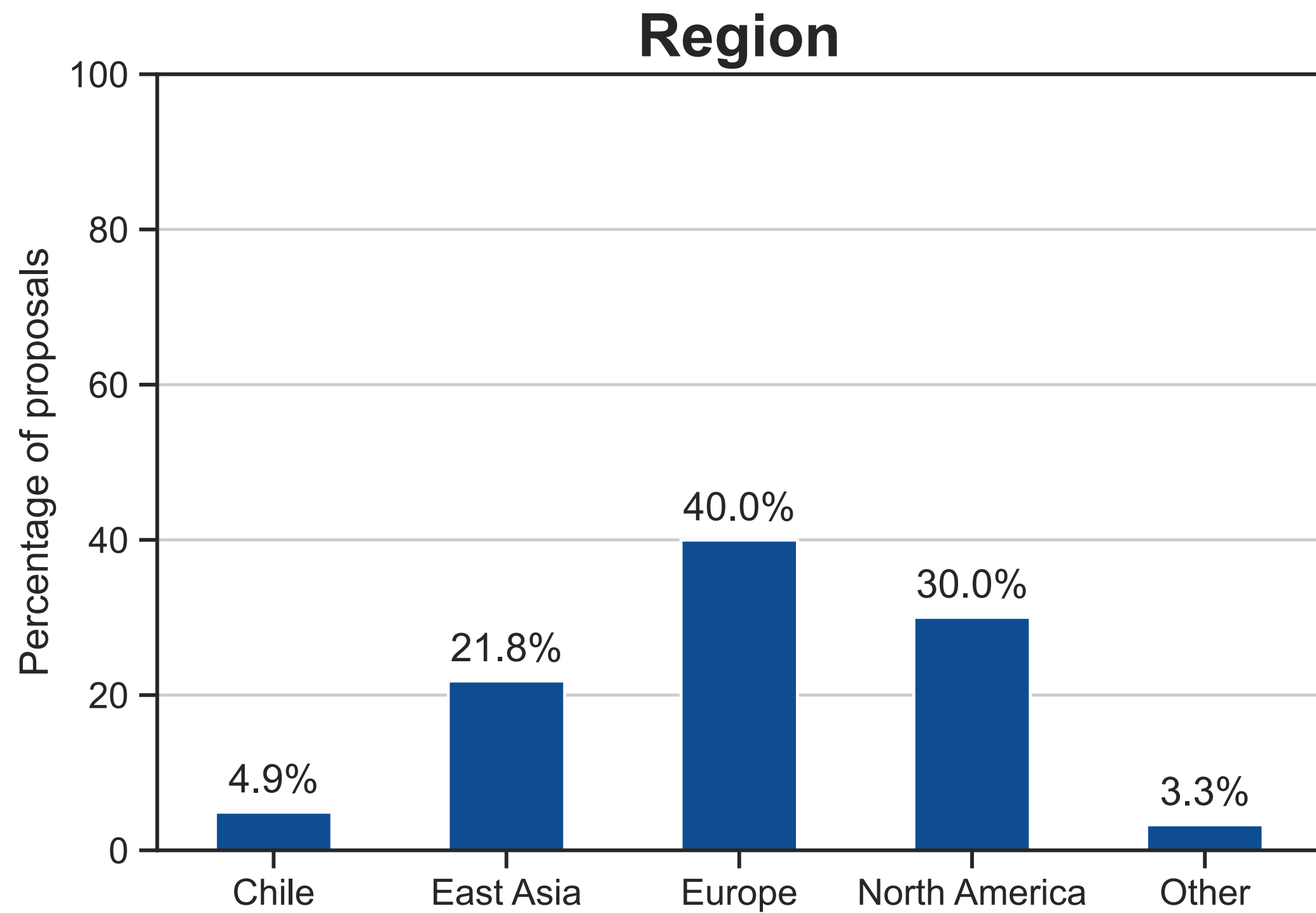
Requested 12-m Array Time by Science Category*



*Excluding Large Programs



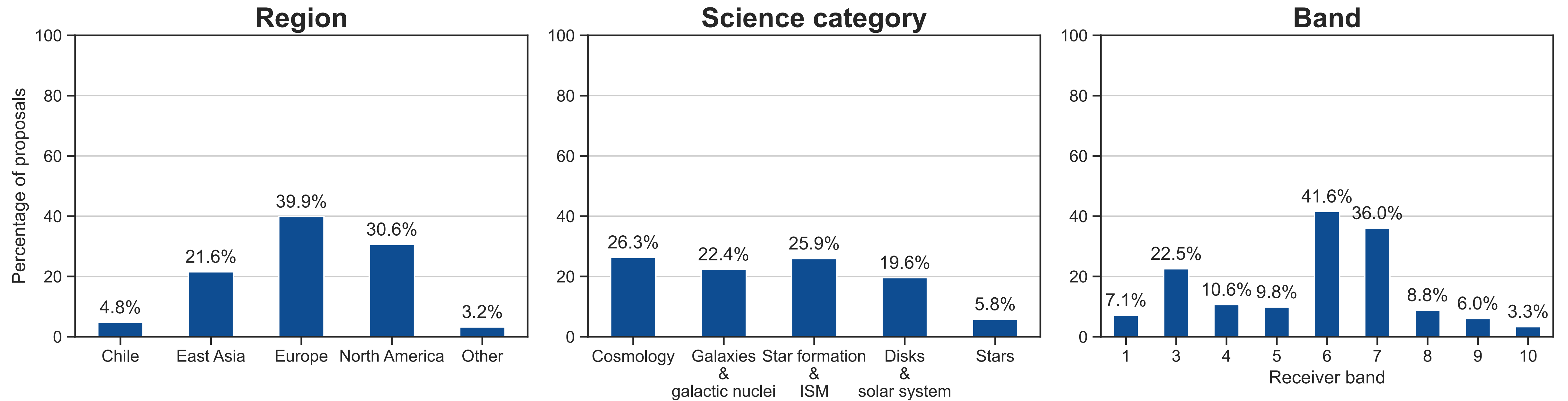
Percentage of proposals by region* and category: all arrays



* Percentages by region correspond to the regional affiliation of the Principal Investigator (PI) and co-PIs.



Number of proposals by region, category, and band: 12-m Array



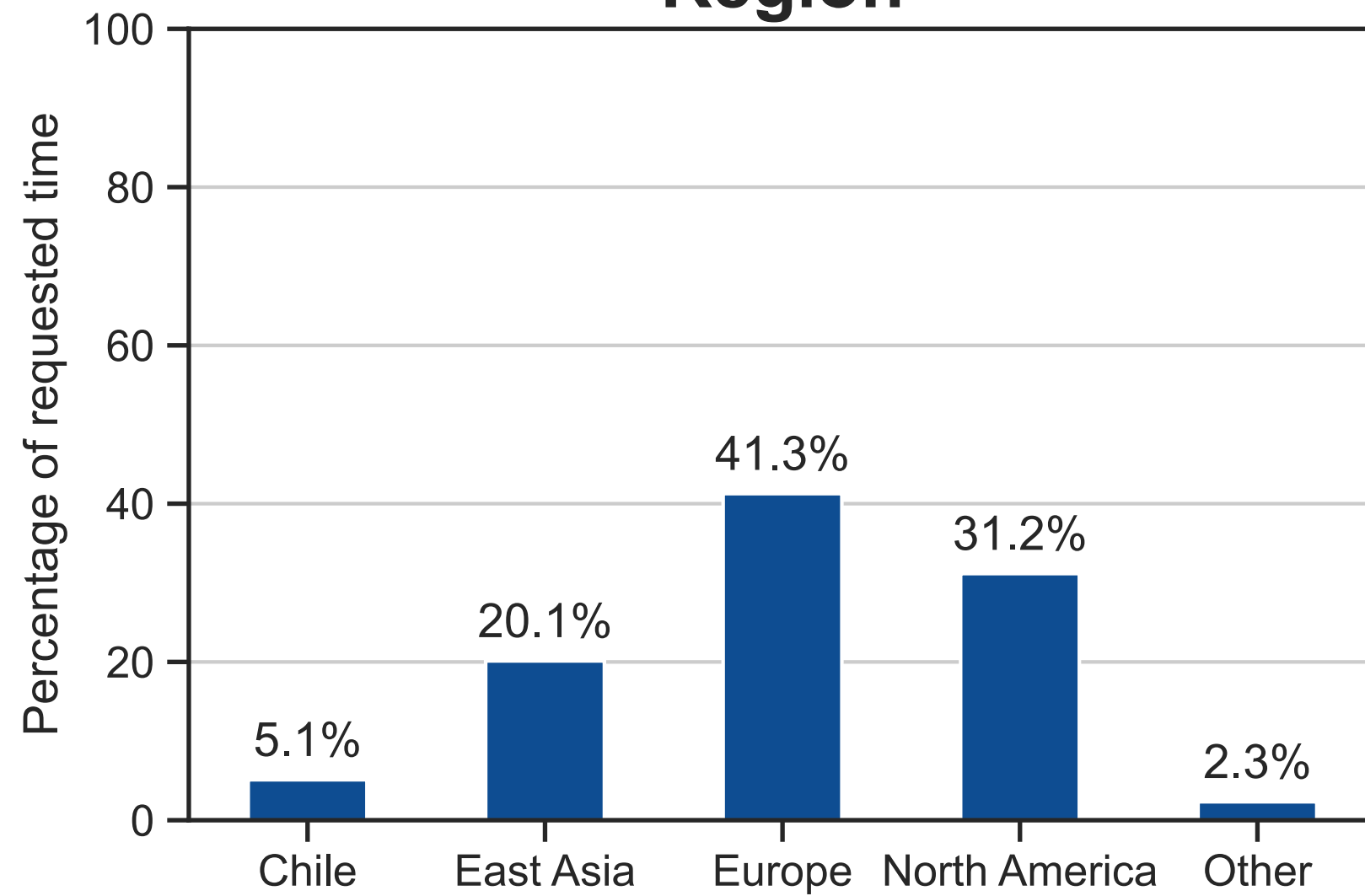
- Results are for the 1589 proposals requesting the 12-m Array.
- Percentages by receiver band sum to greater than 100% since some proposals request more than one receiver band.



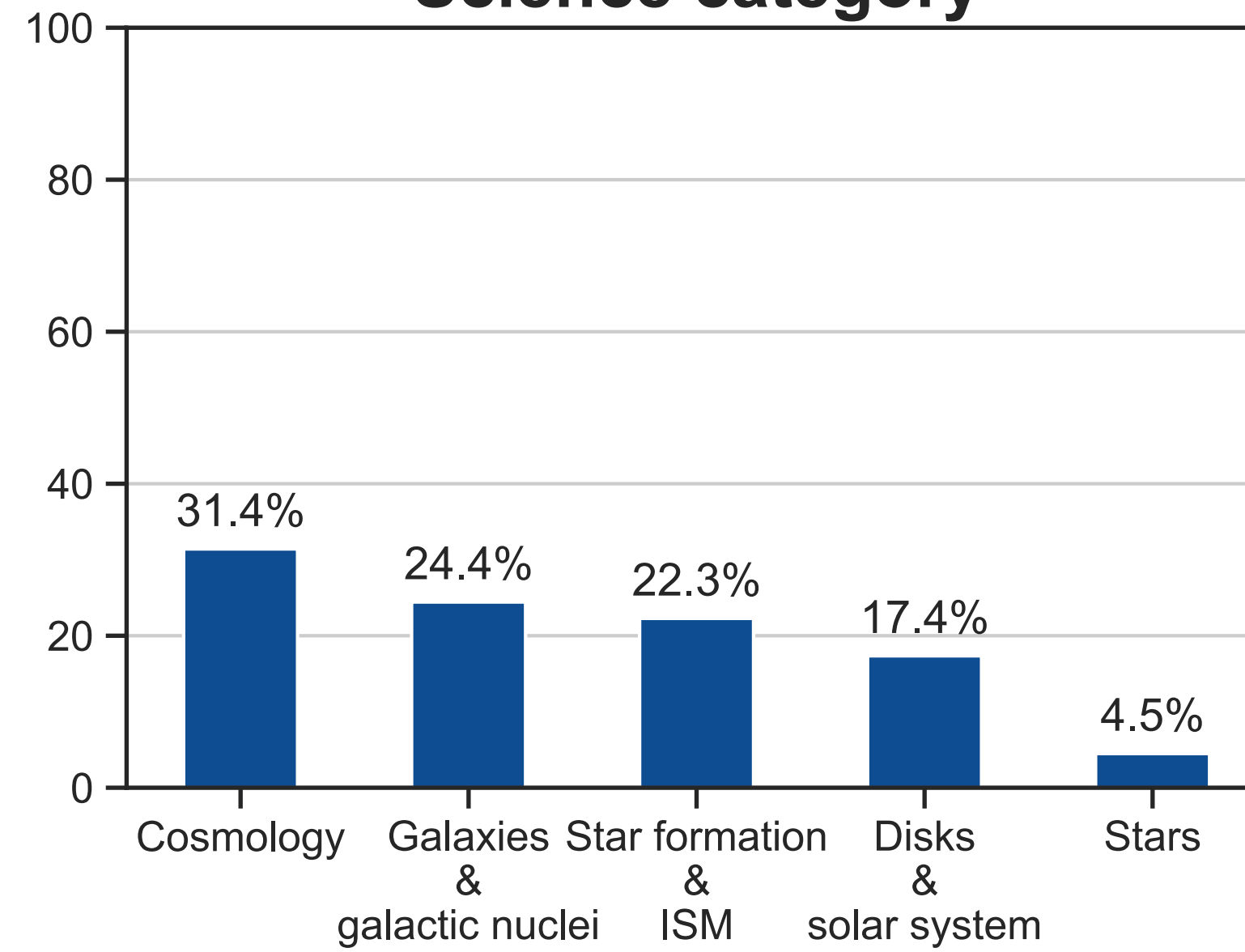
Requested time by region, category, and band: 12-m Array



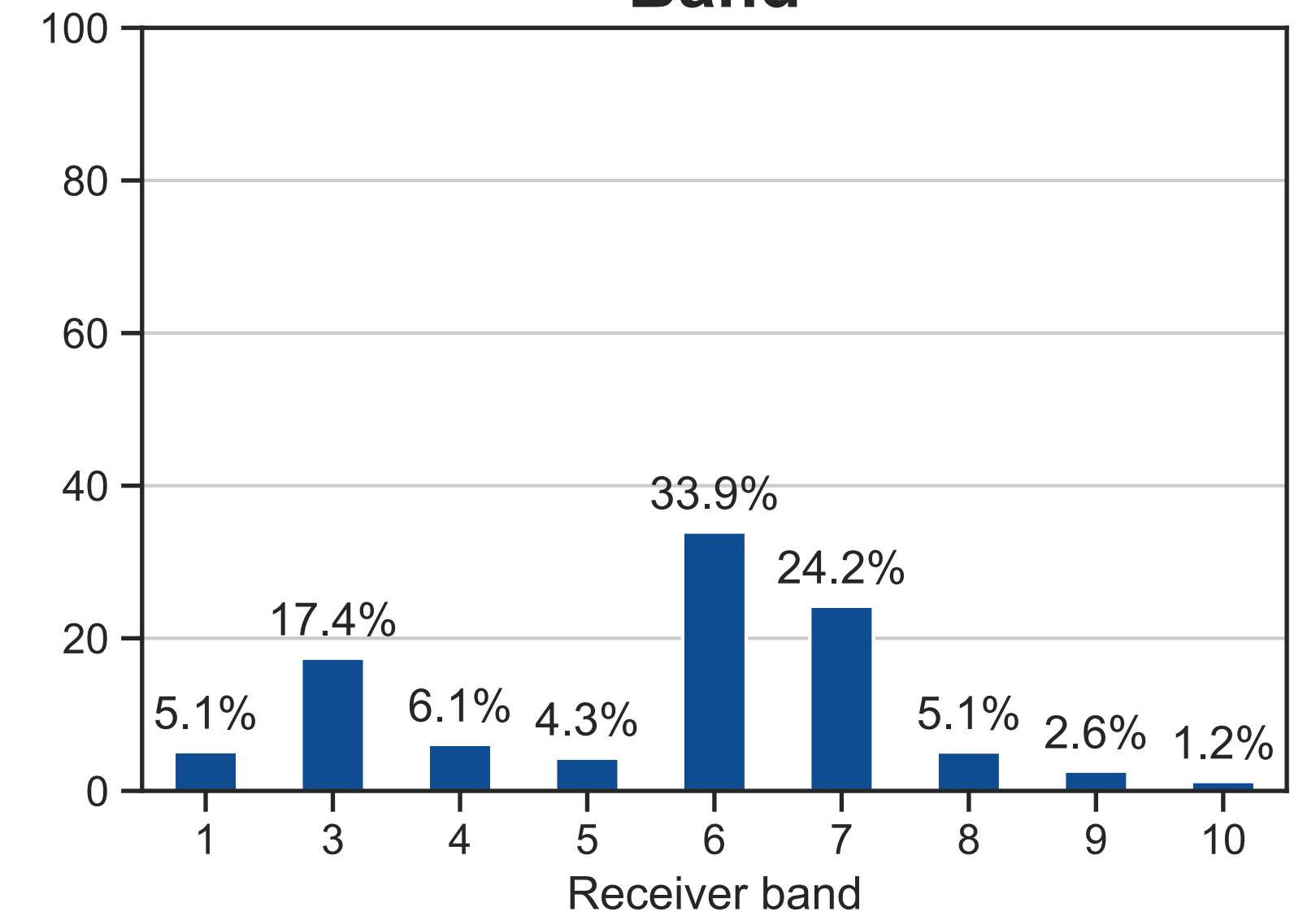
Region



Science category

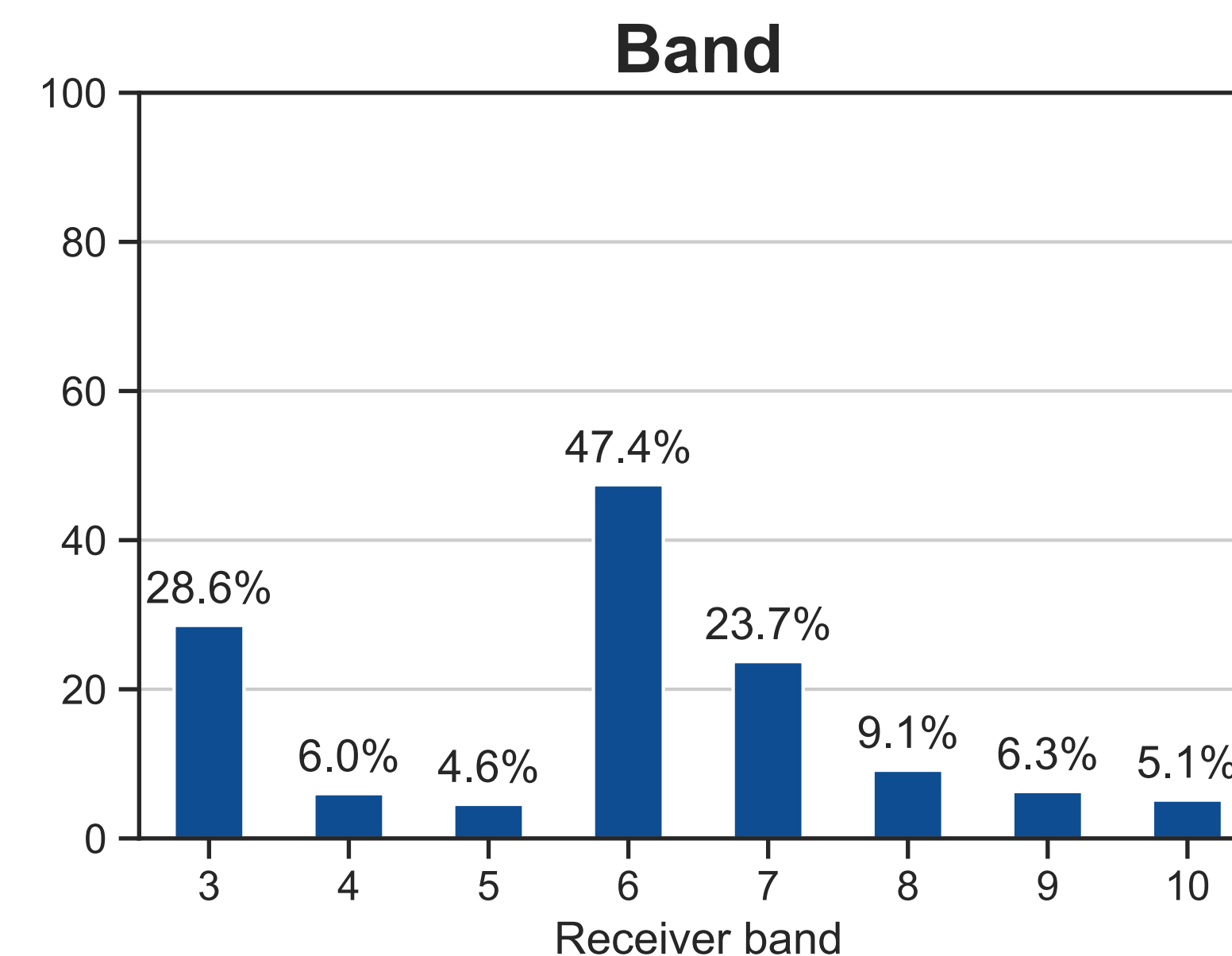
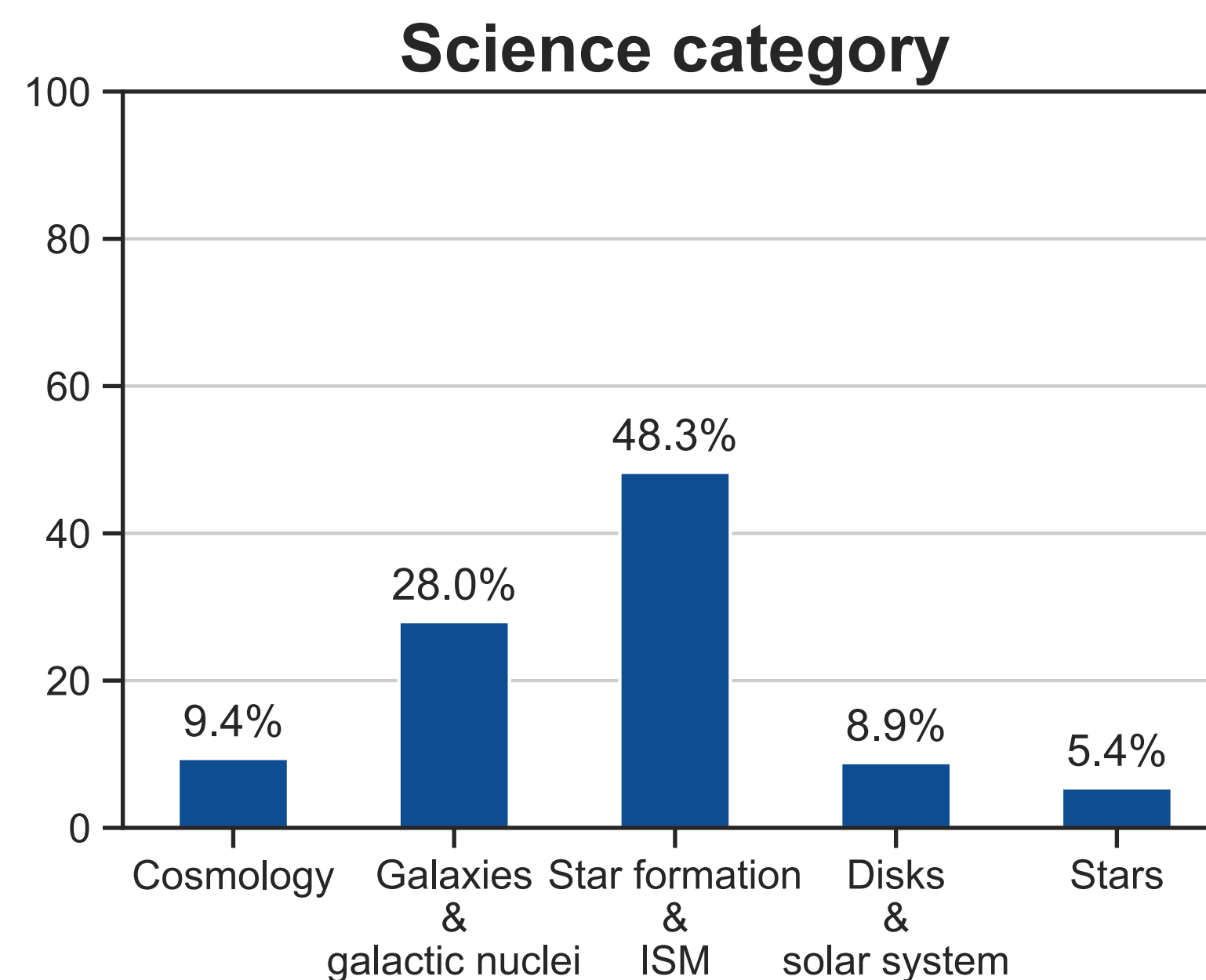
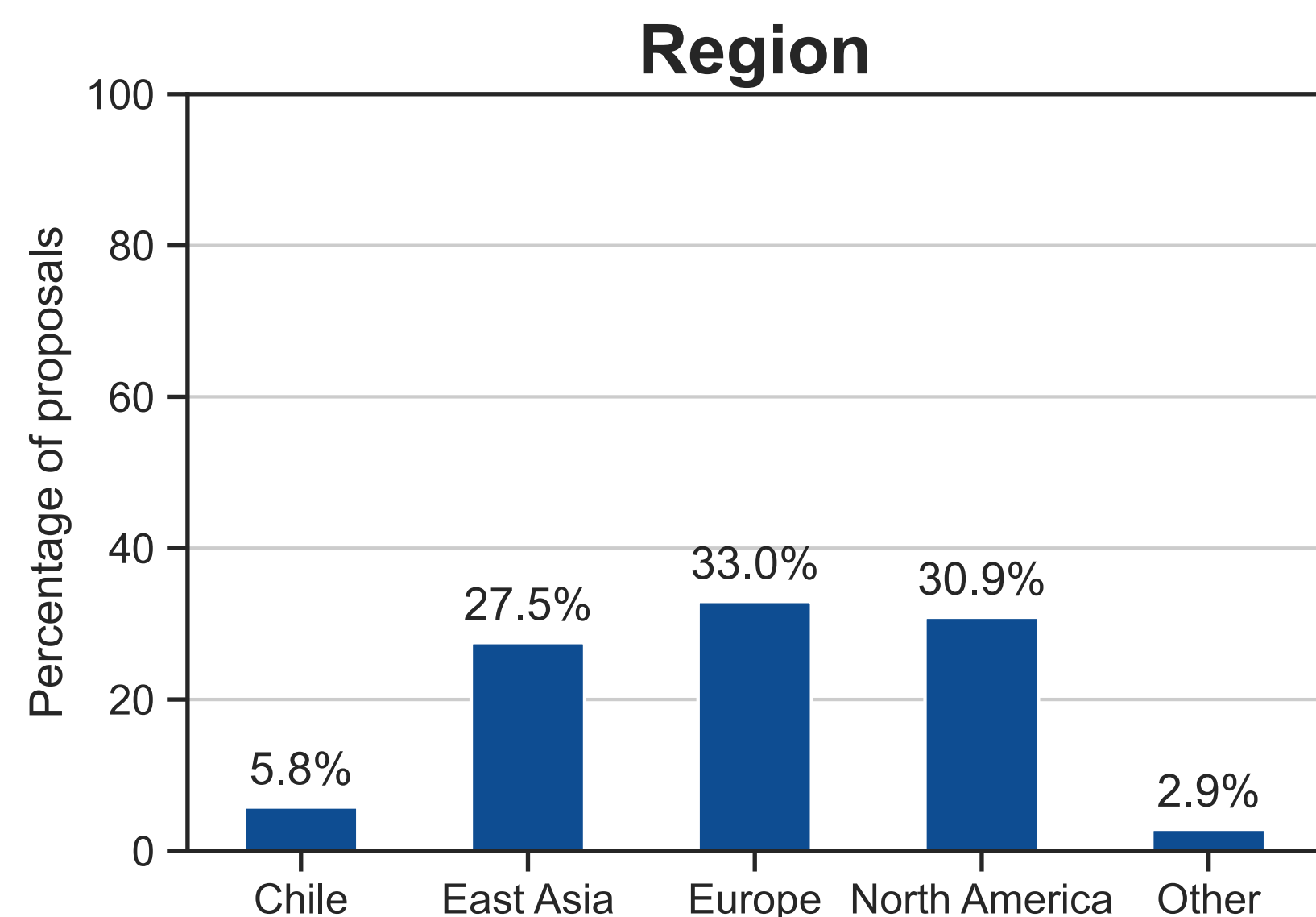


Band





Number of proposals by region, category, and band: 7-m Array



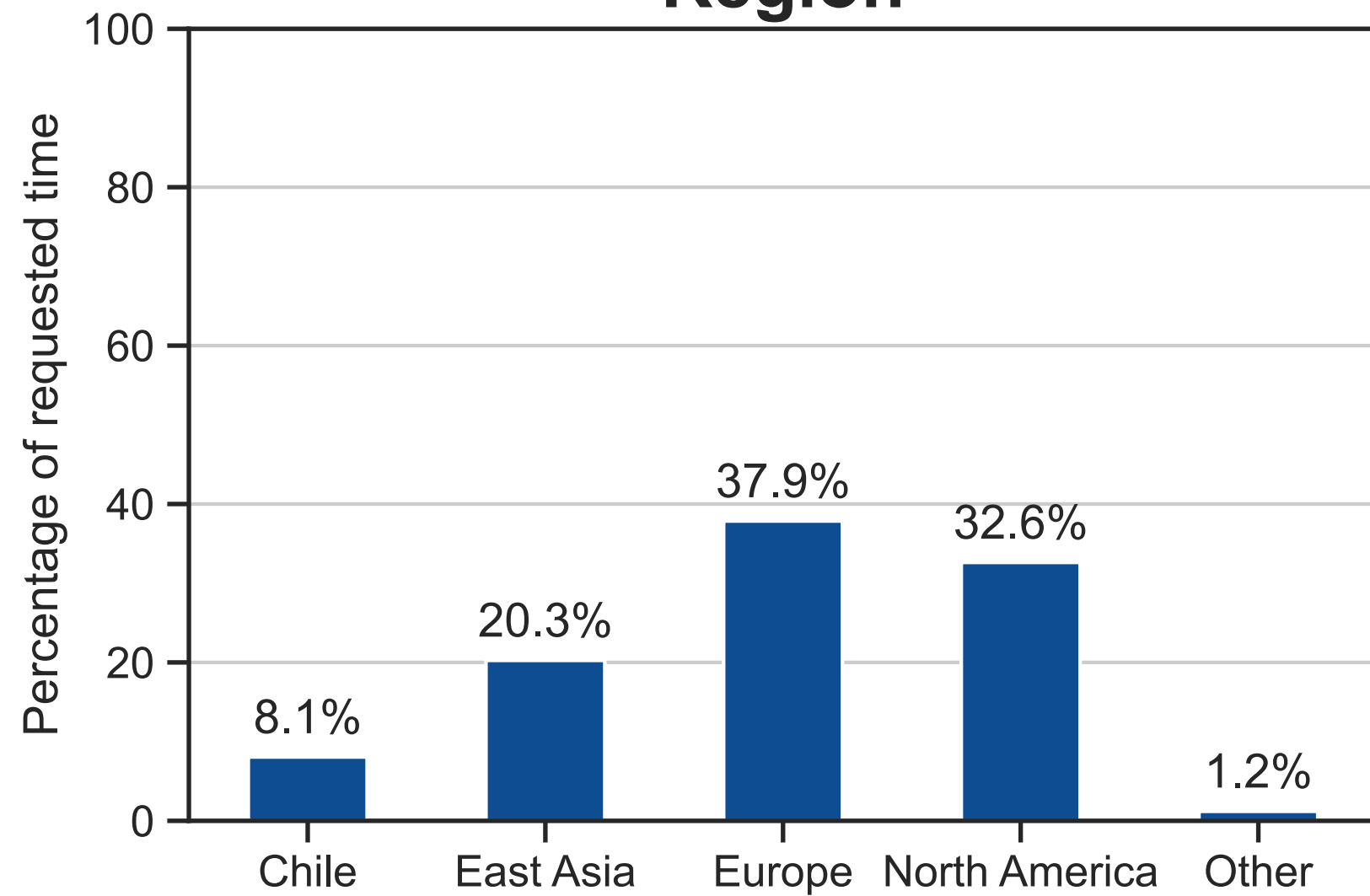
- Results are for the 350 proposals requesting the 7-m Array.
- Percentages by receiver band sum to greater than 100% since some proposals request more than one receiver band.



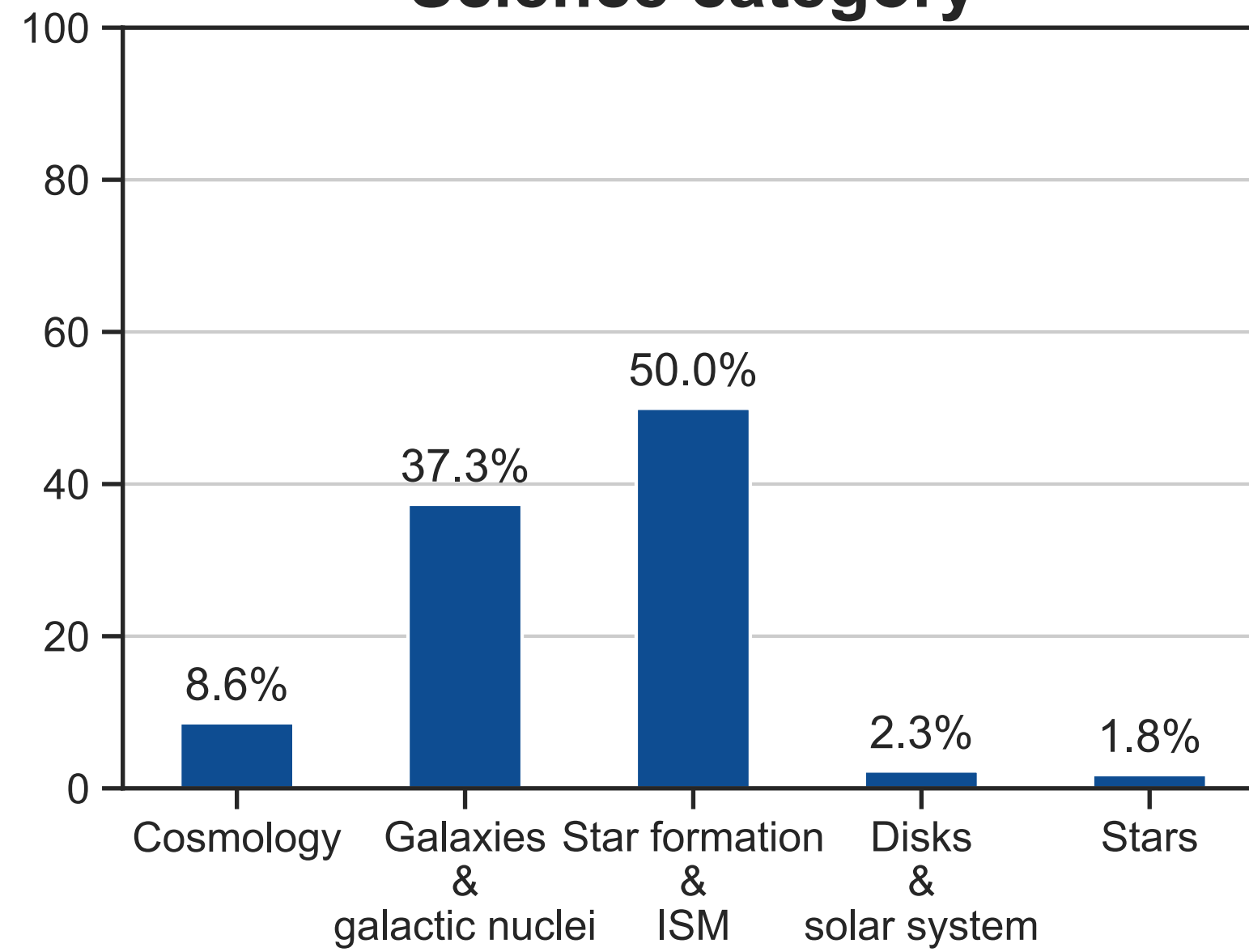
Requested time by region, category, and band: 7-m Array



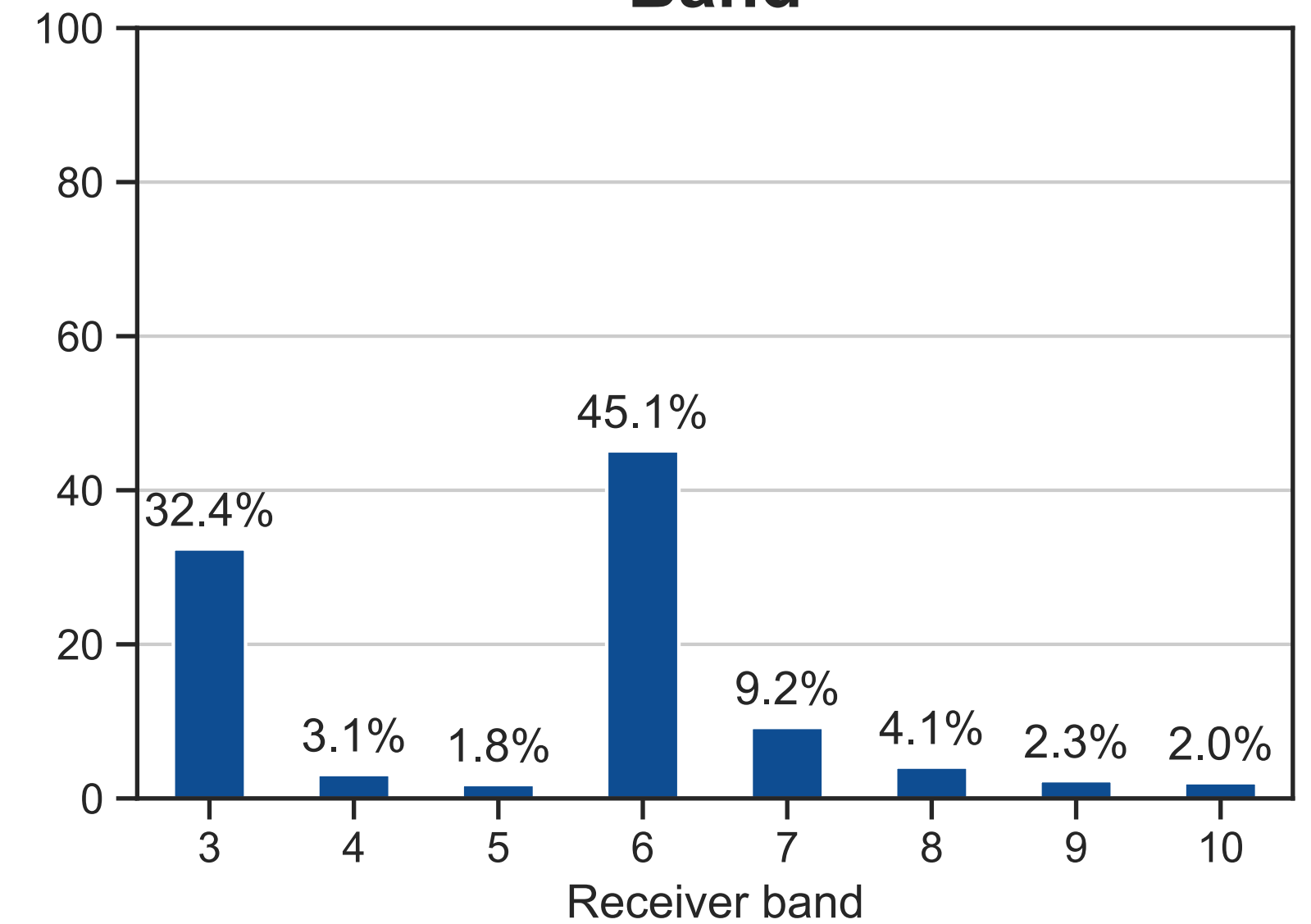
Region



Science category

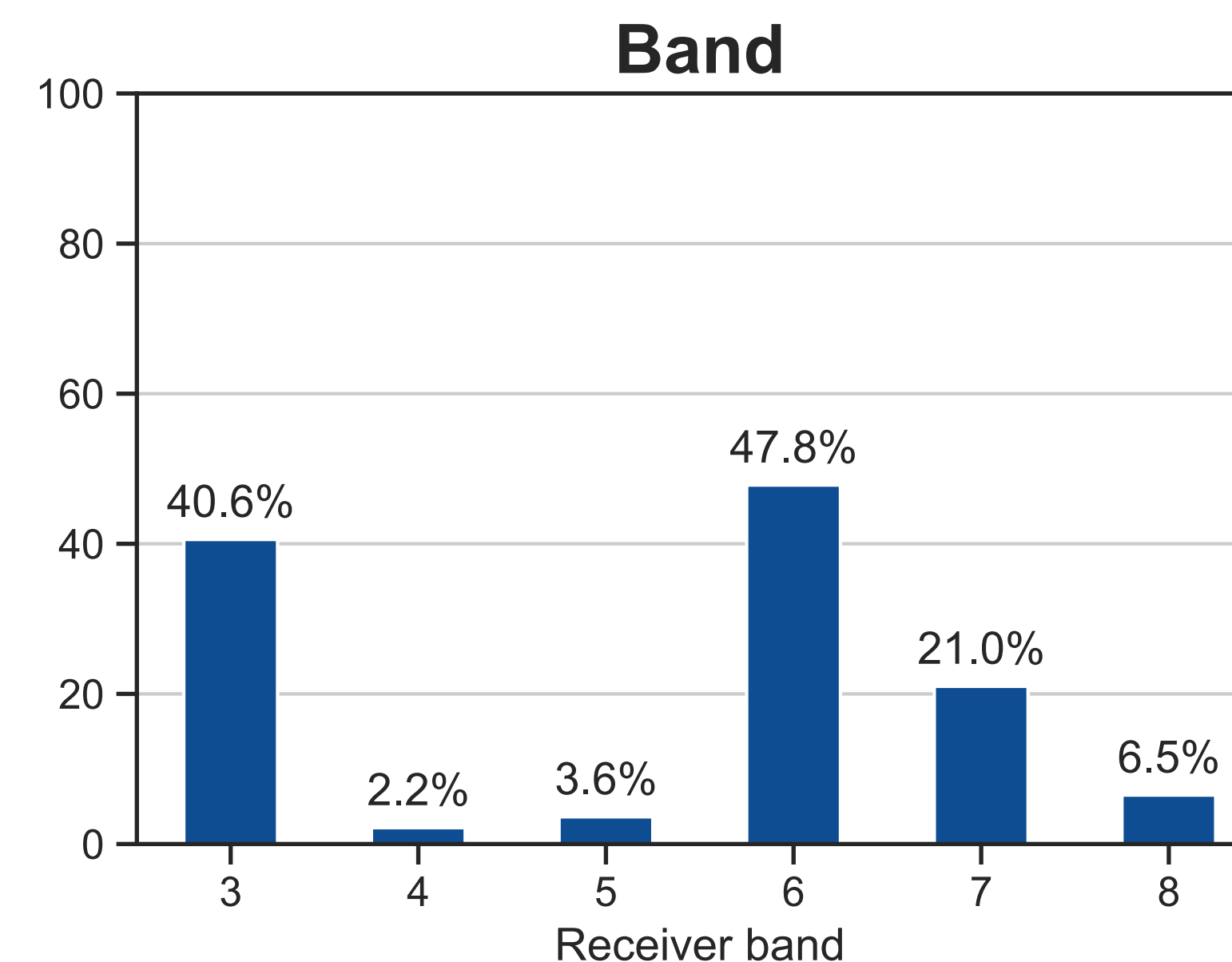
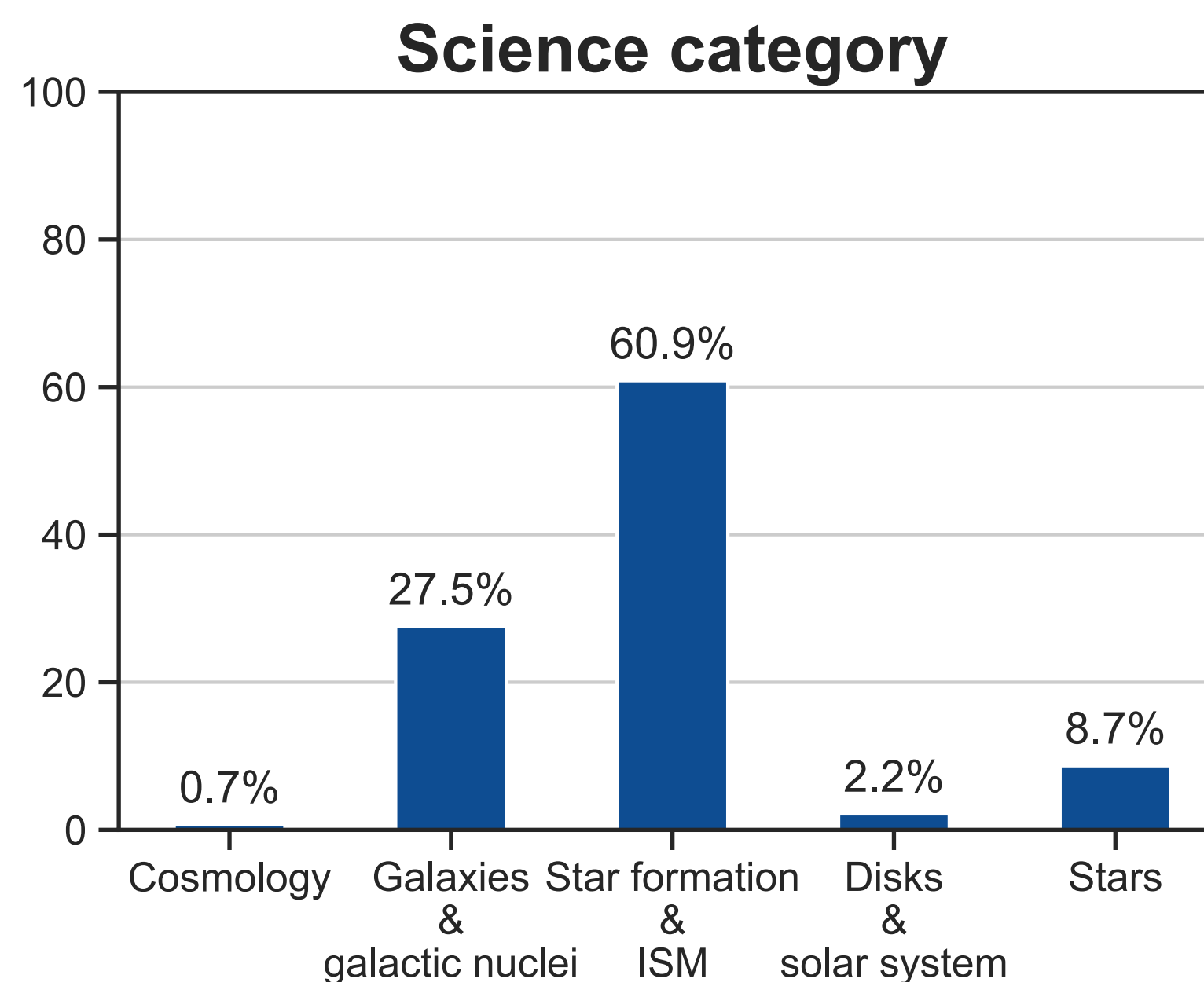
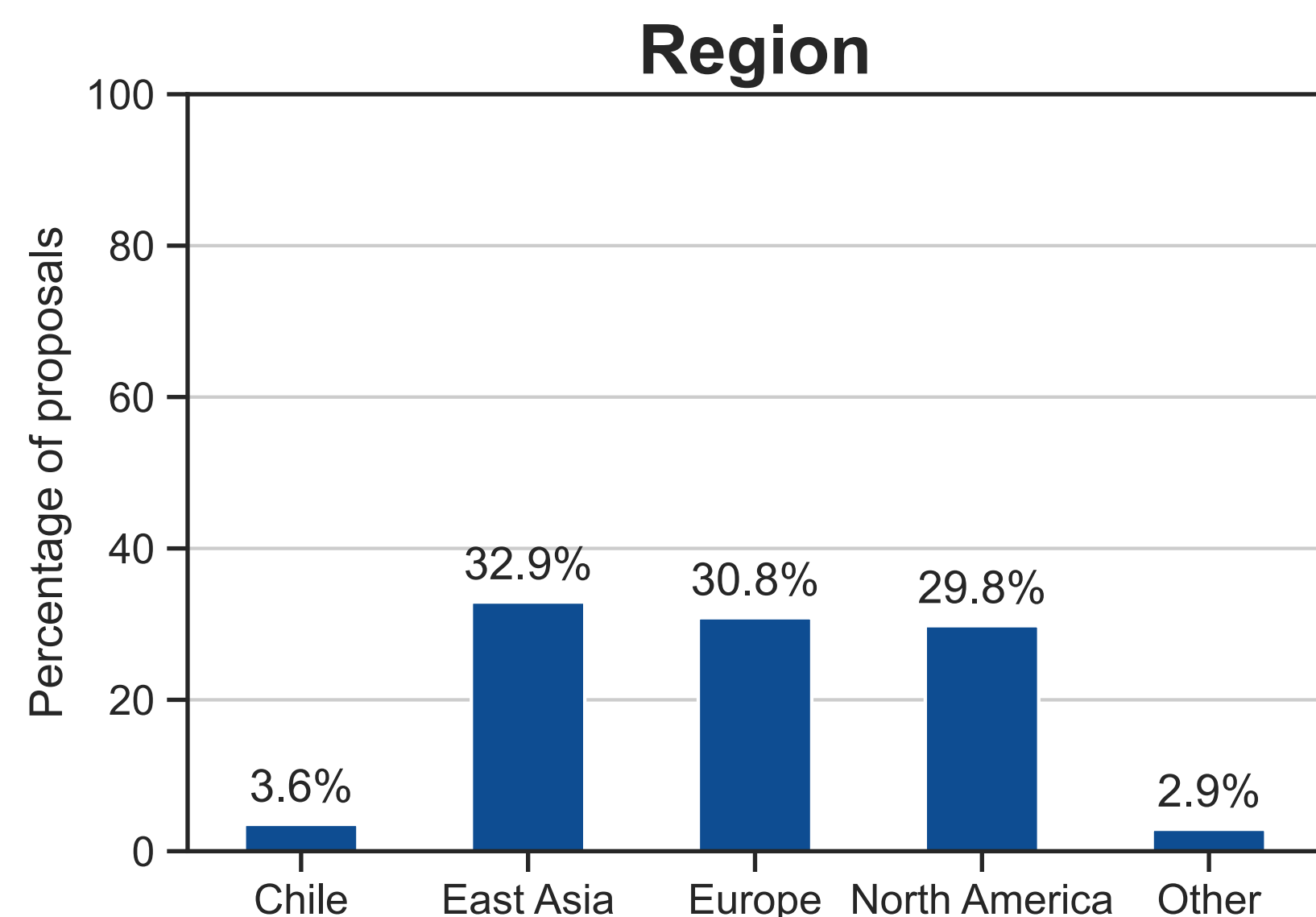


Band





Number of proposals by region, category, and band: Total Power Array



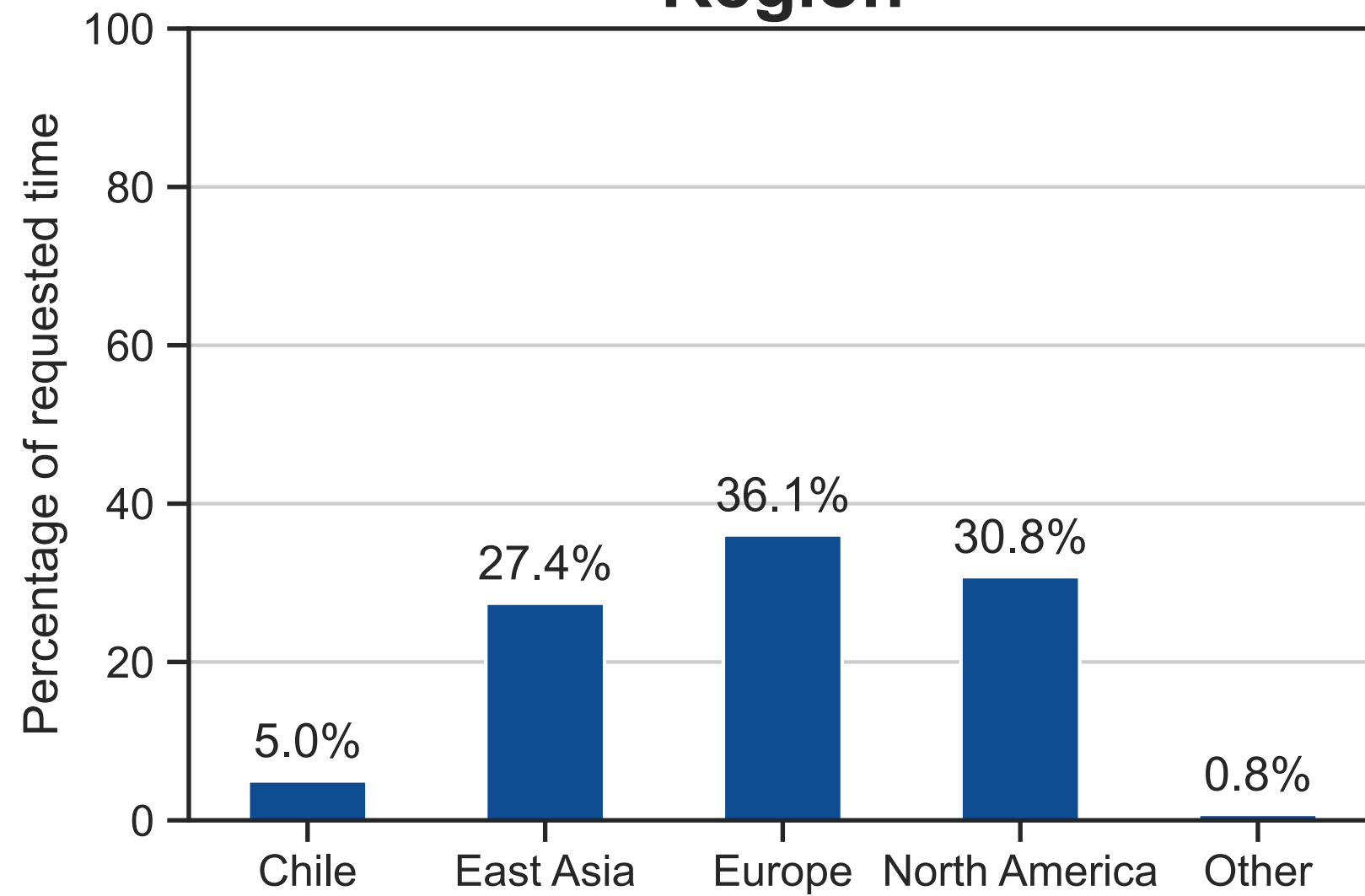
- Results are for the 103 proposals requesting the Total Power Array.
- Percentages by receiver band sum to greater than 100% since some proposals request more than one receiver band.



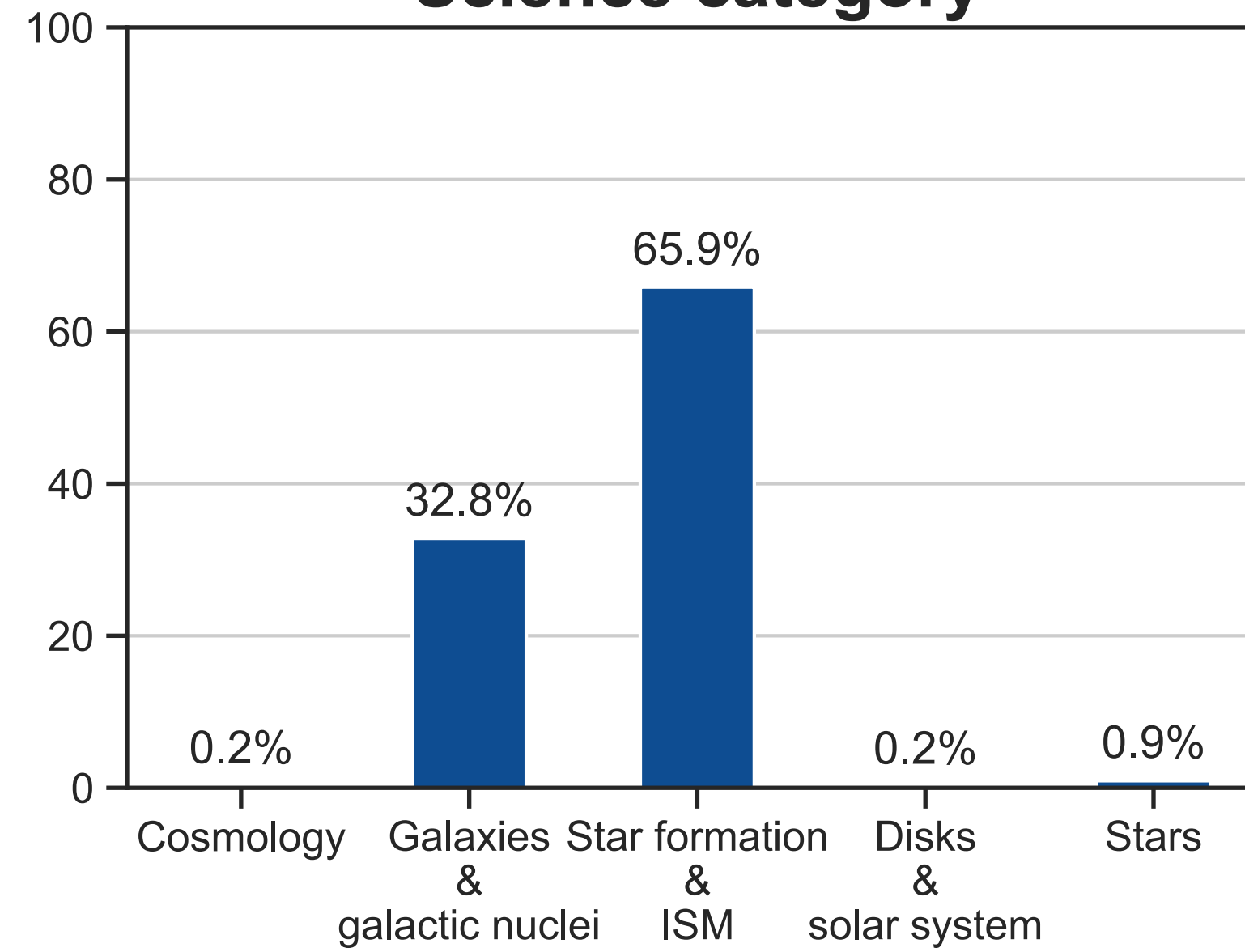
Requested time by region, category, and band: Total Power Array



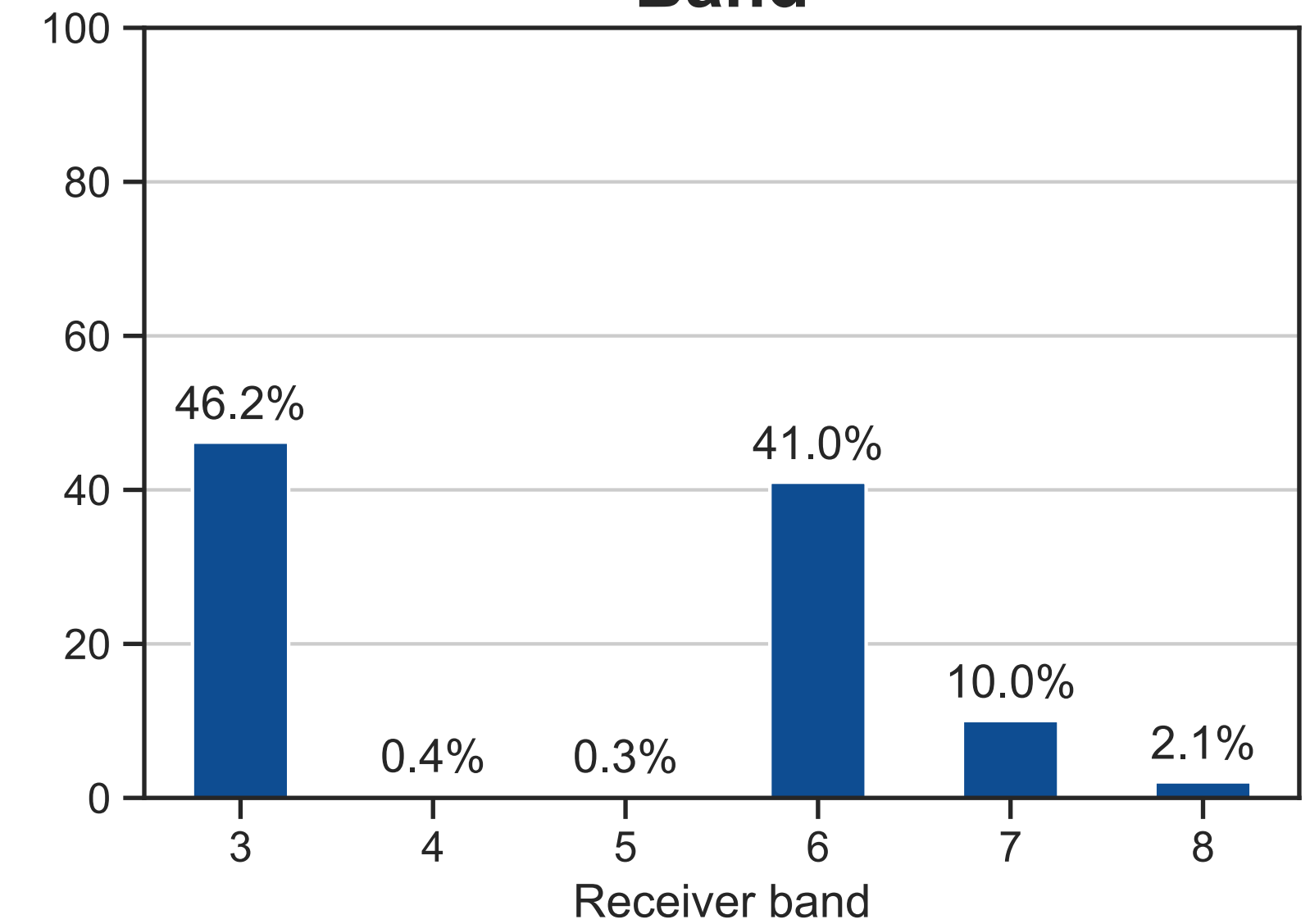
Region

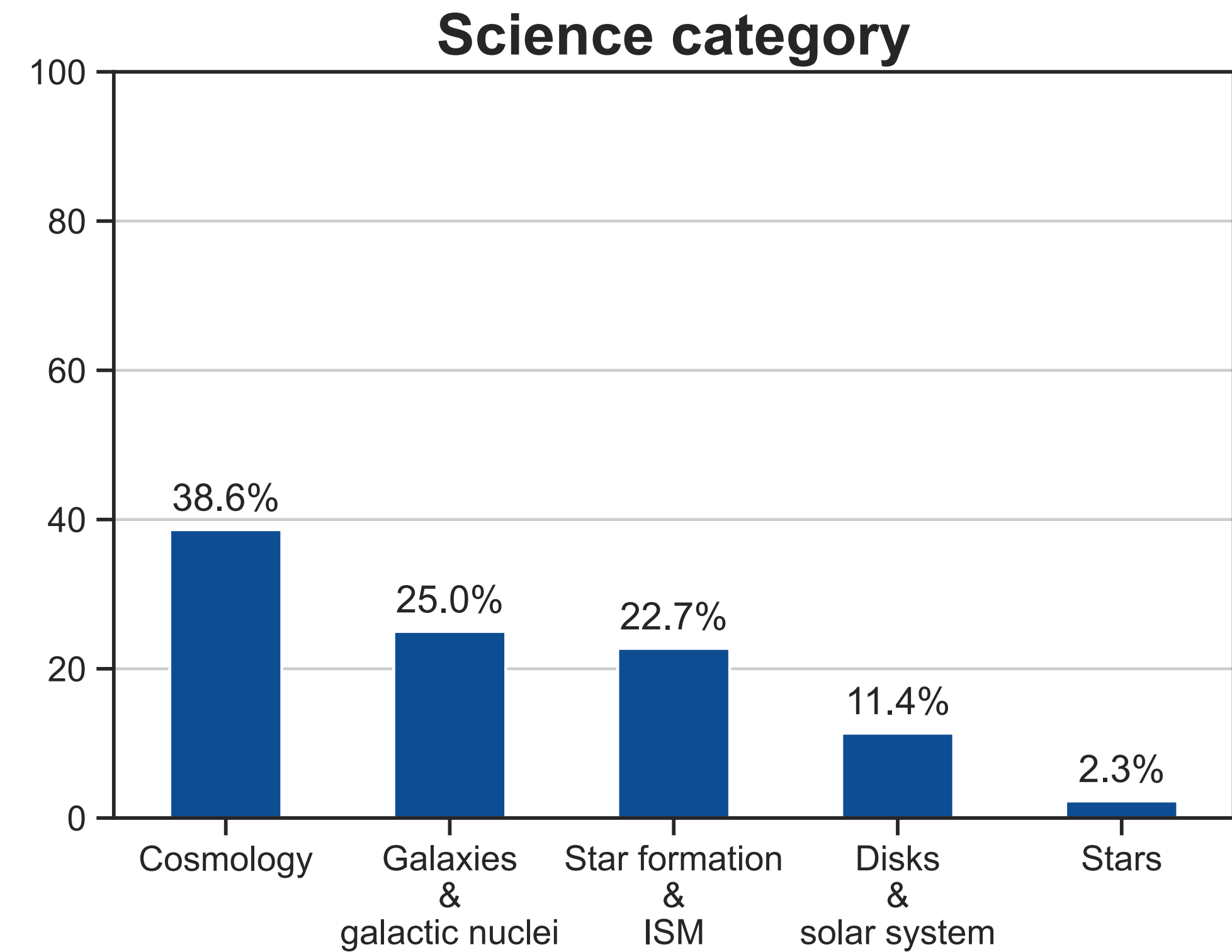
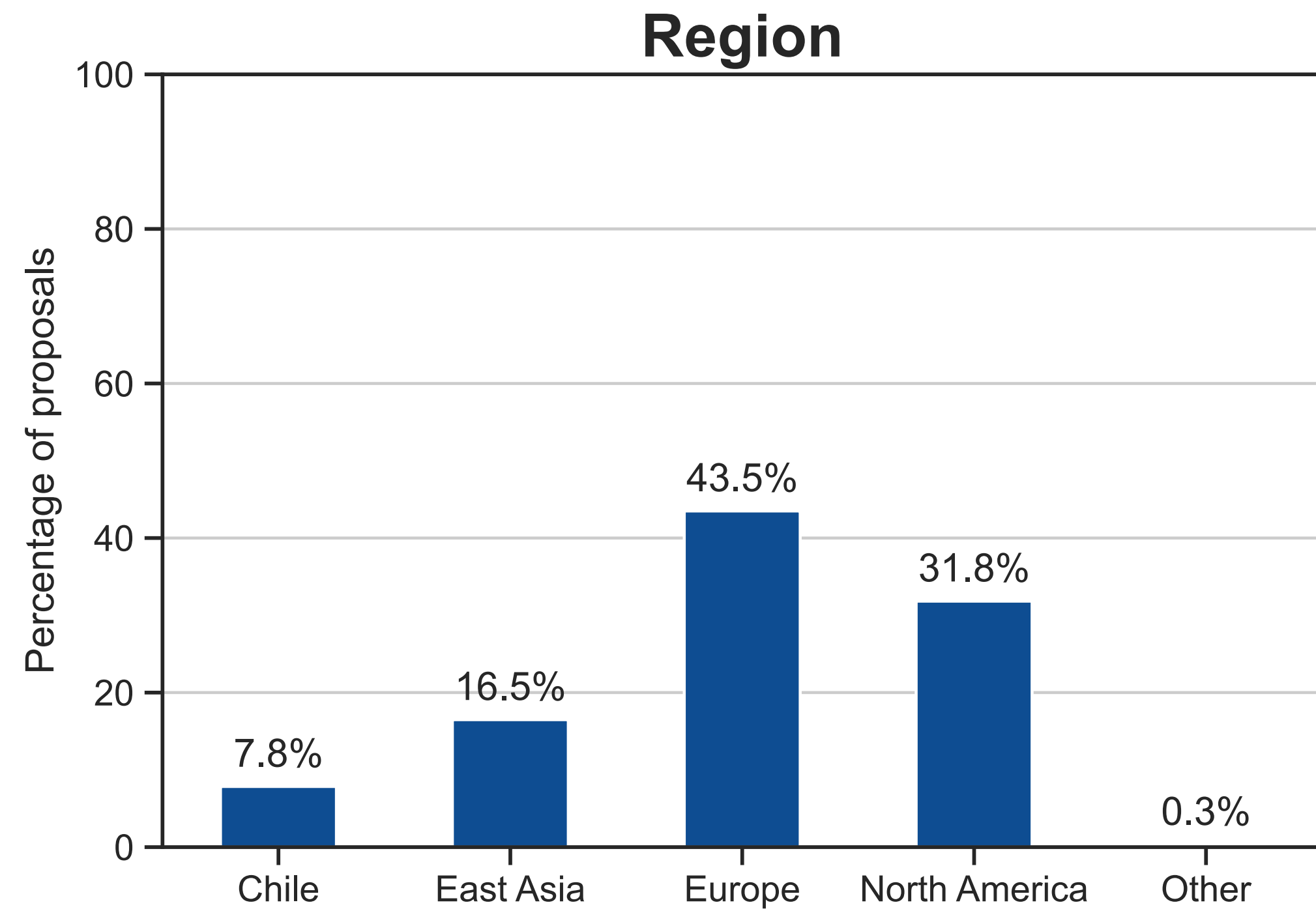


Science category



Band





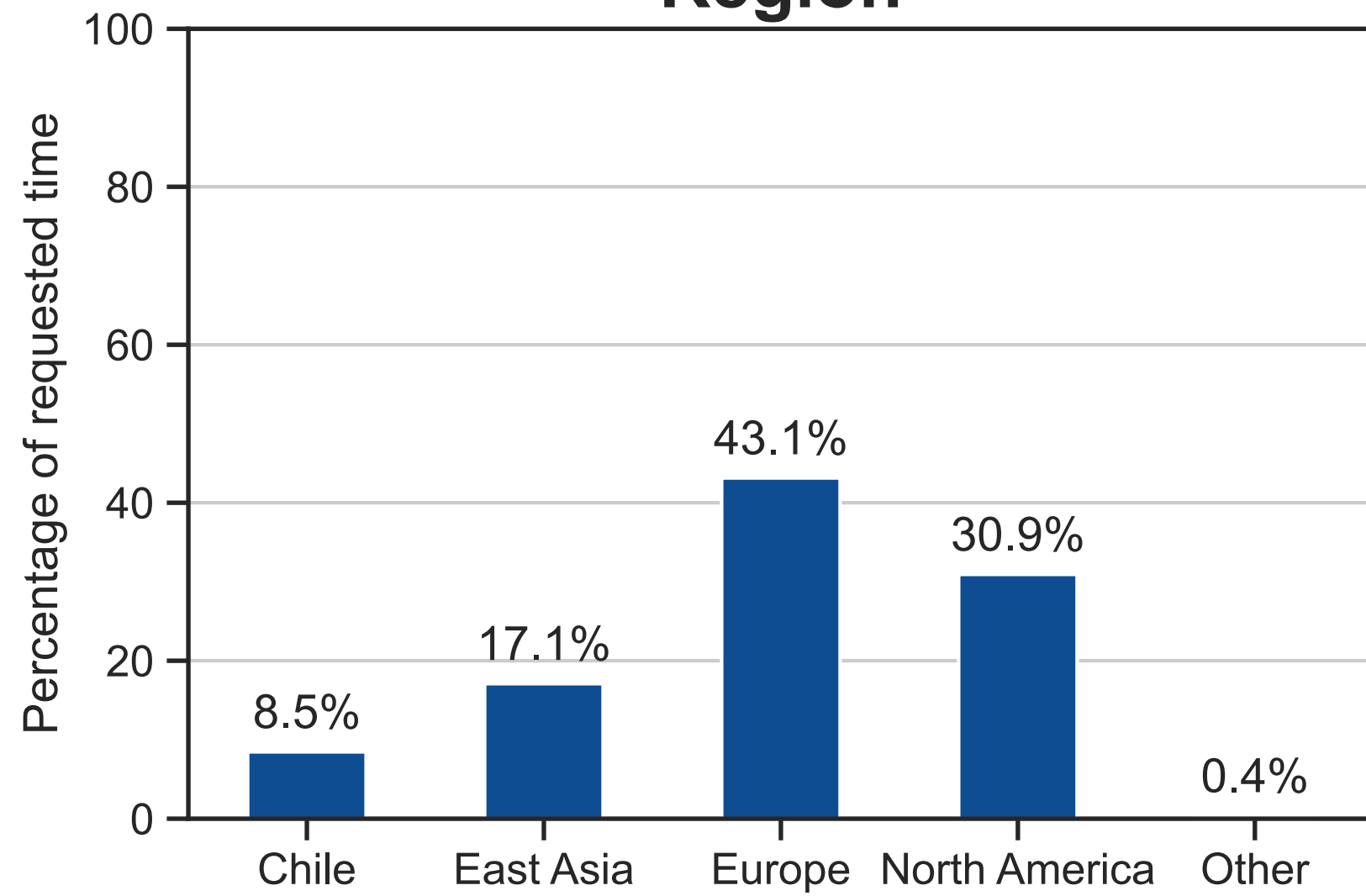
* Percentages by region correspond to the regional affiliation of the Principal Investigator (PI) and co-PIs.



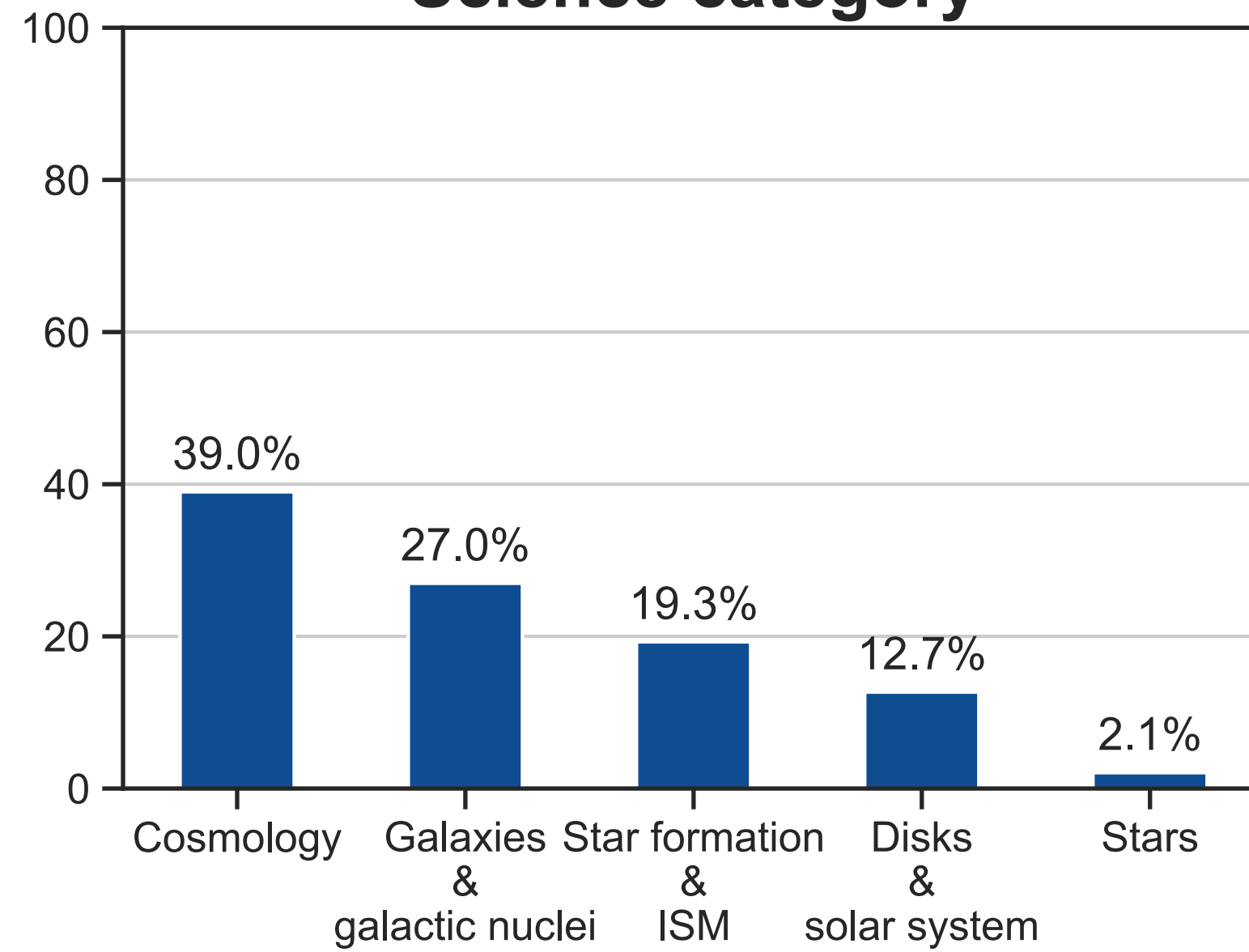
Requested time for Large Programs: 12-m Array



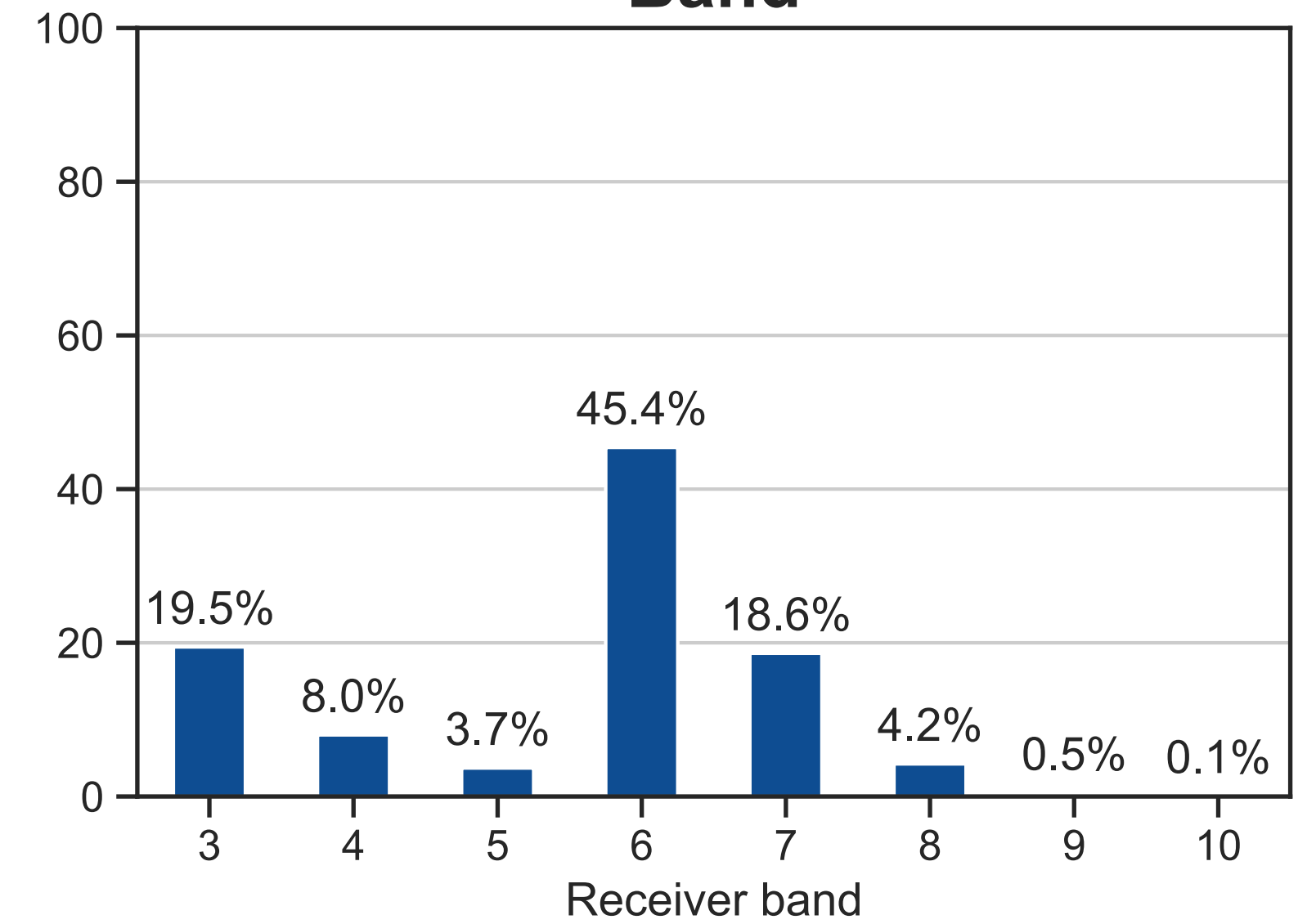
Region



Science category



Band

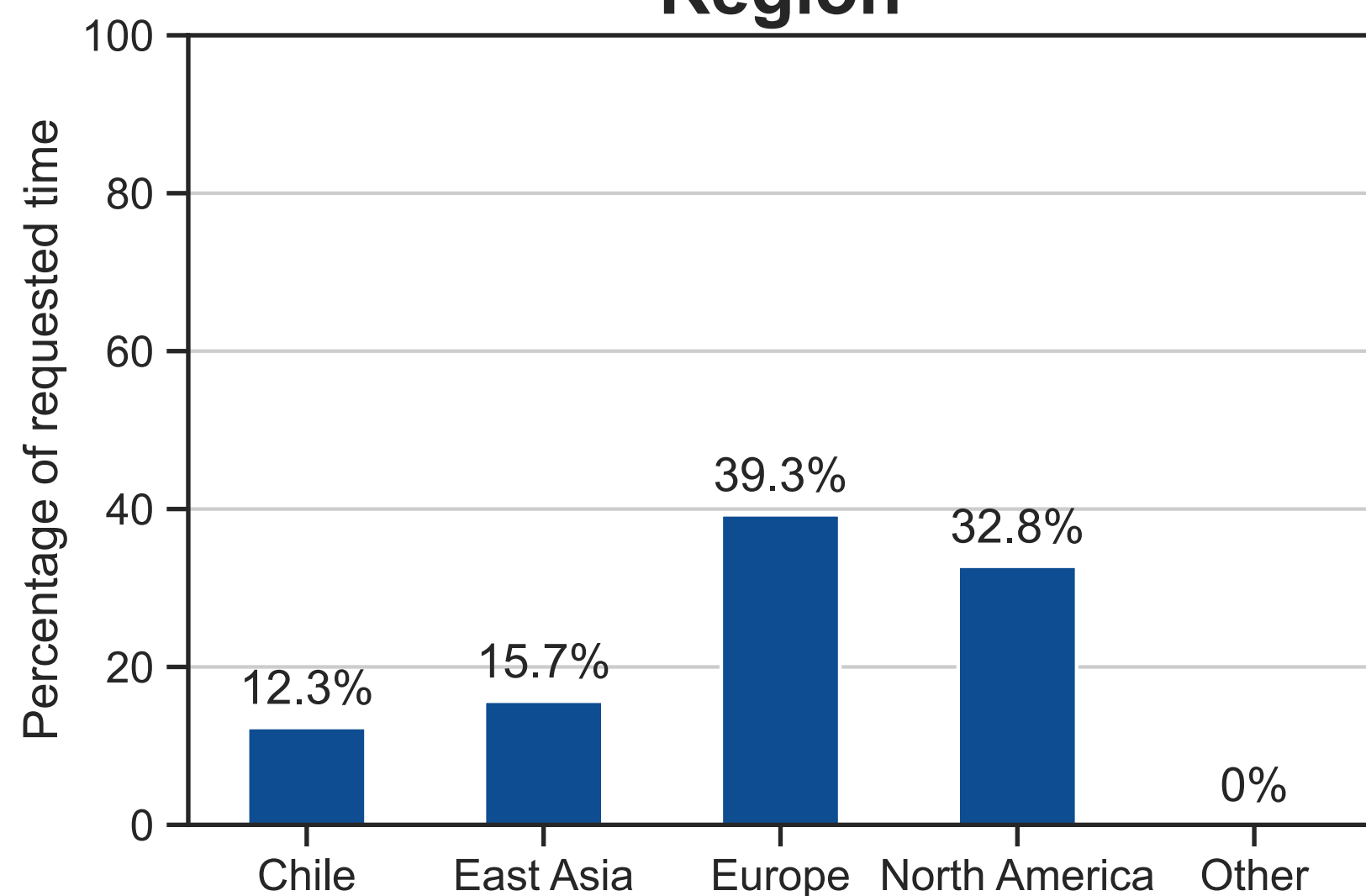




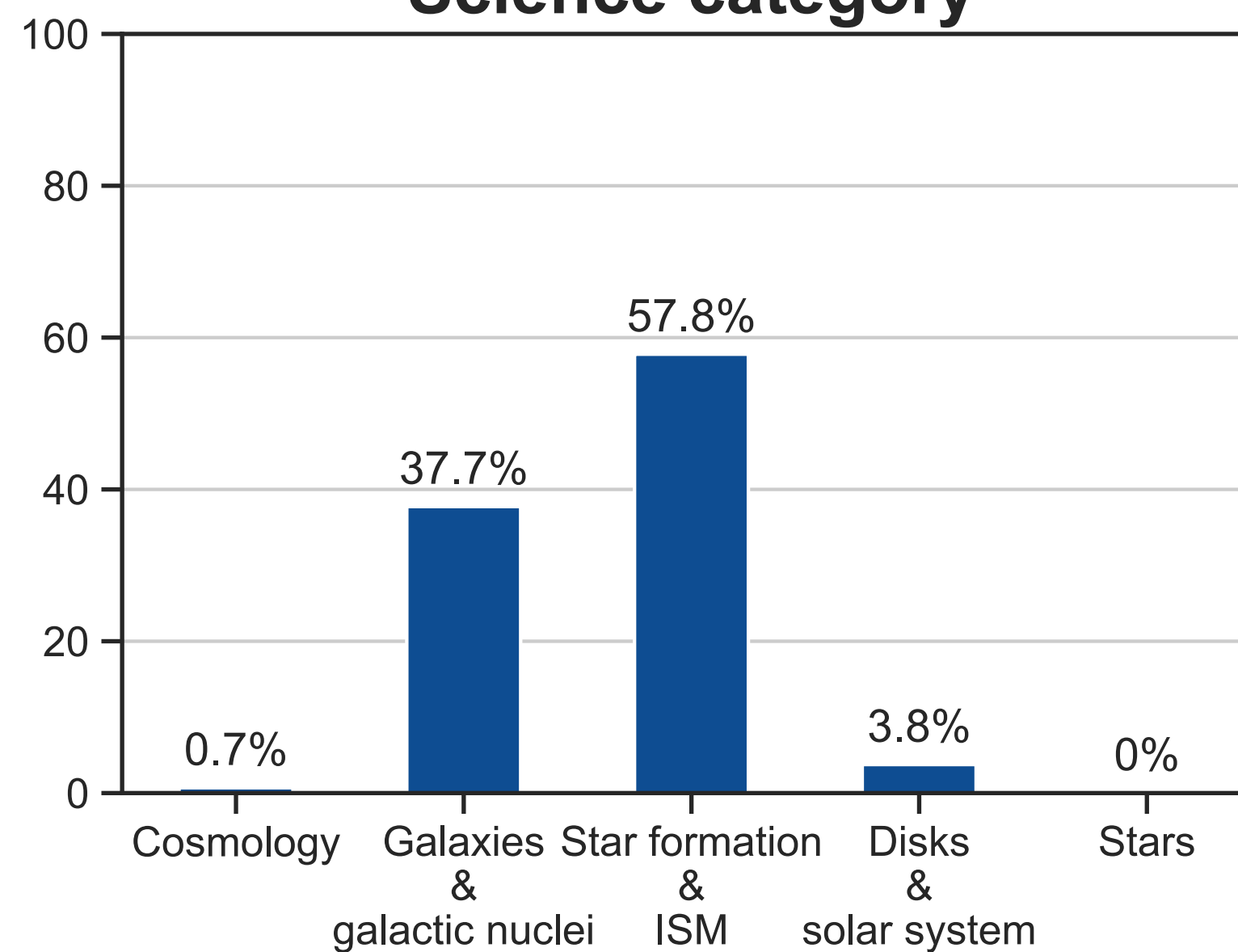
Requested time for Large Programs: 7-m Array



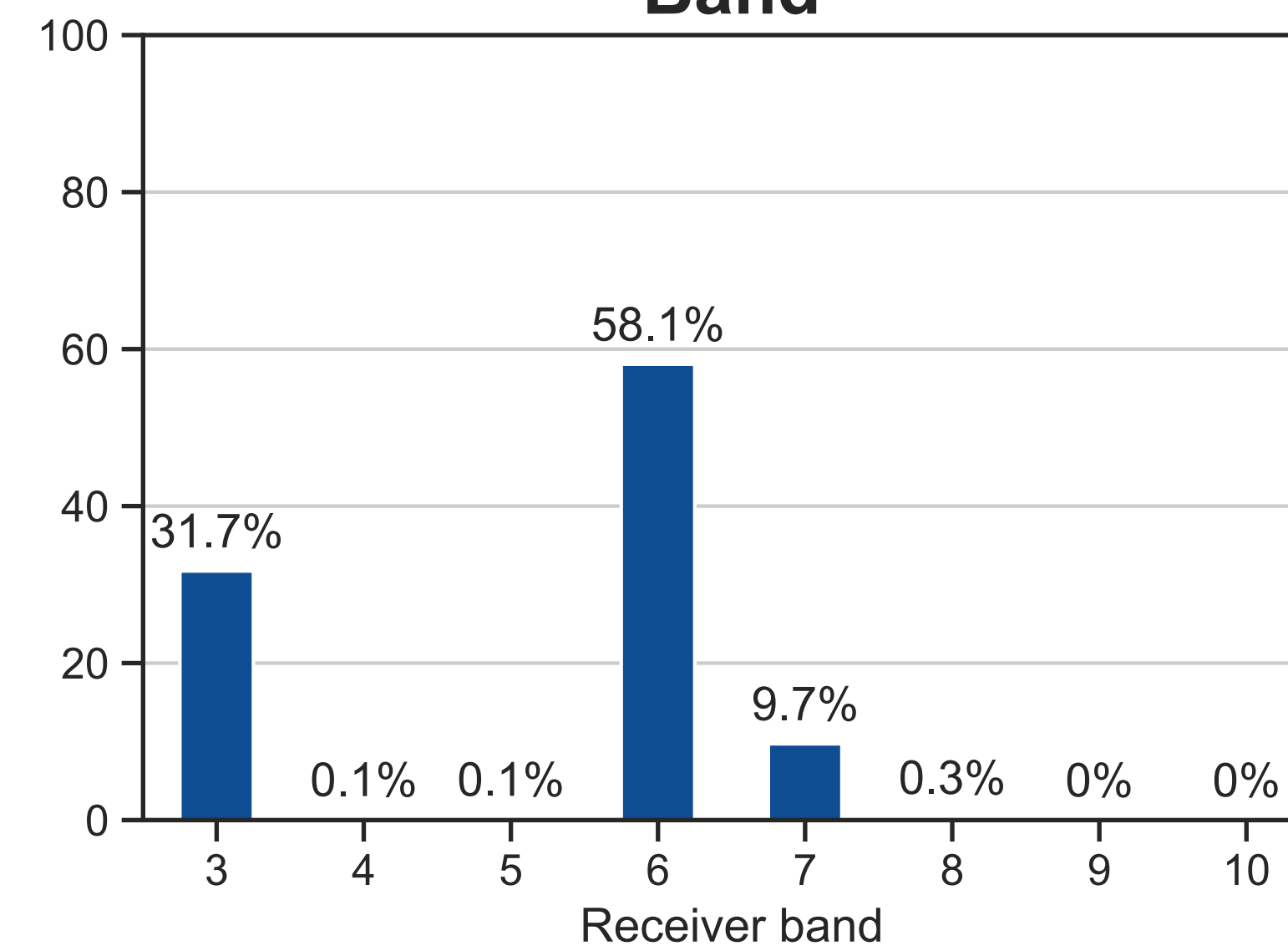
Region



Science category



Band

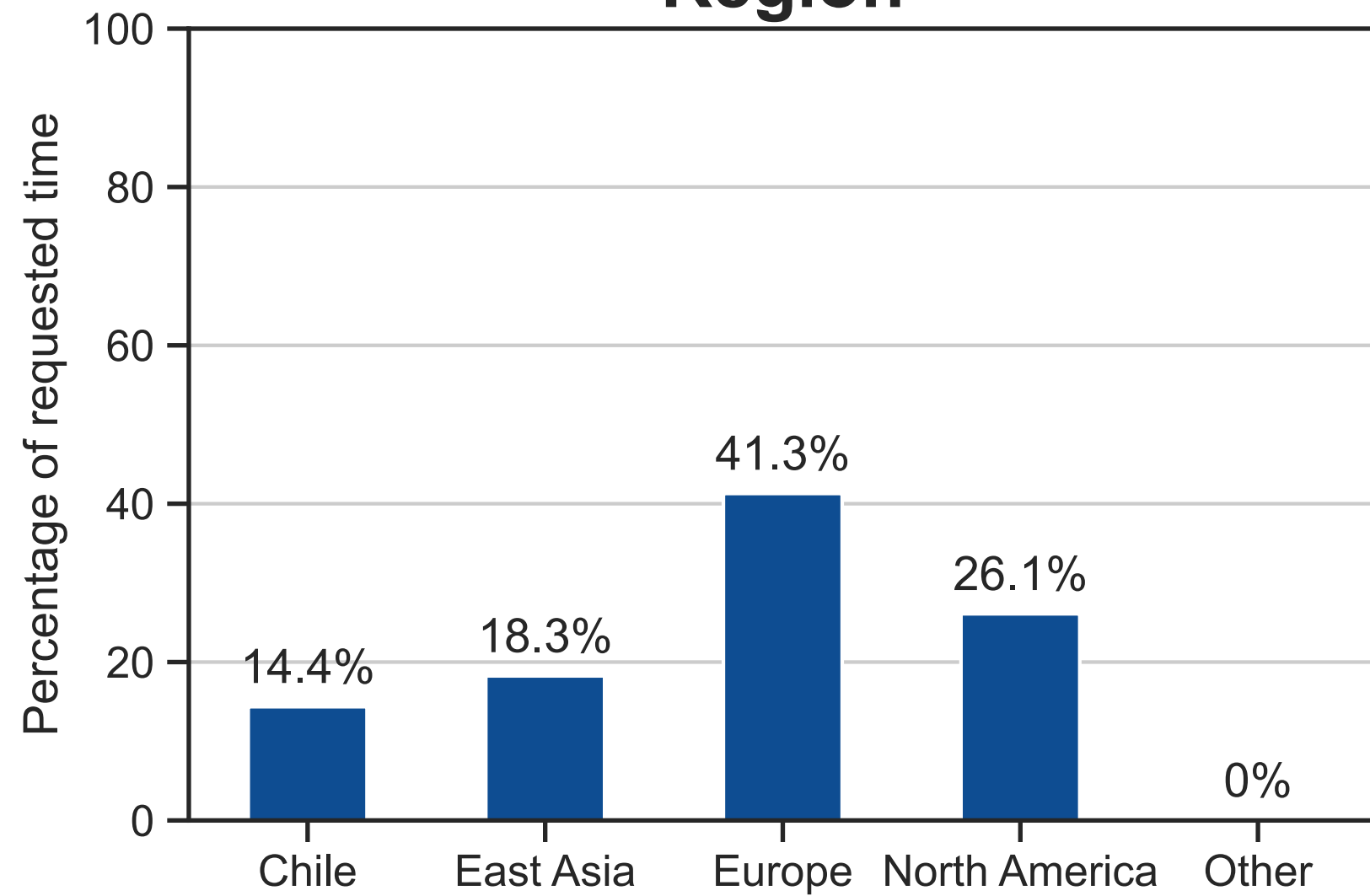




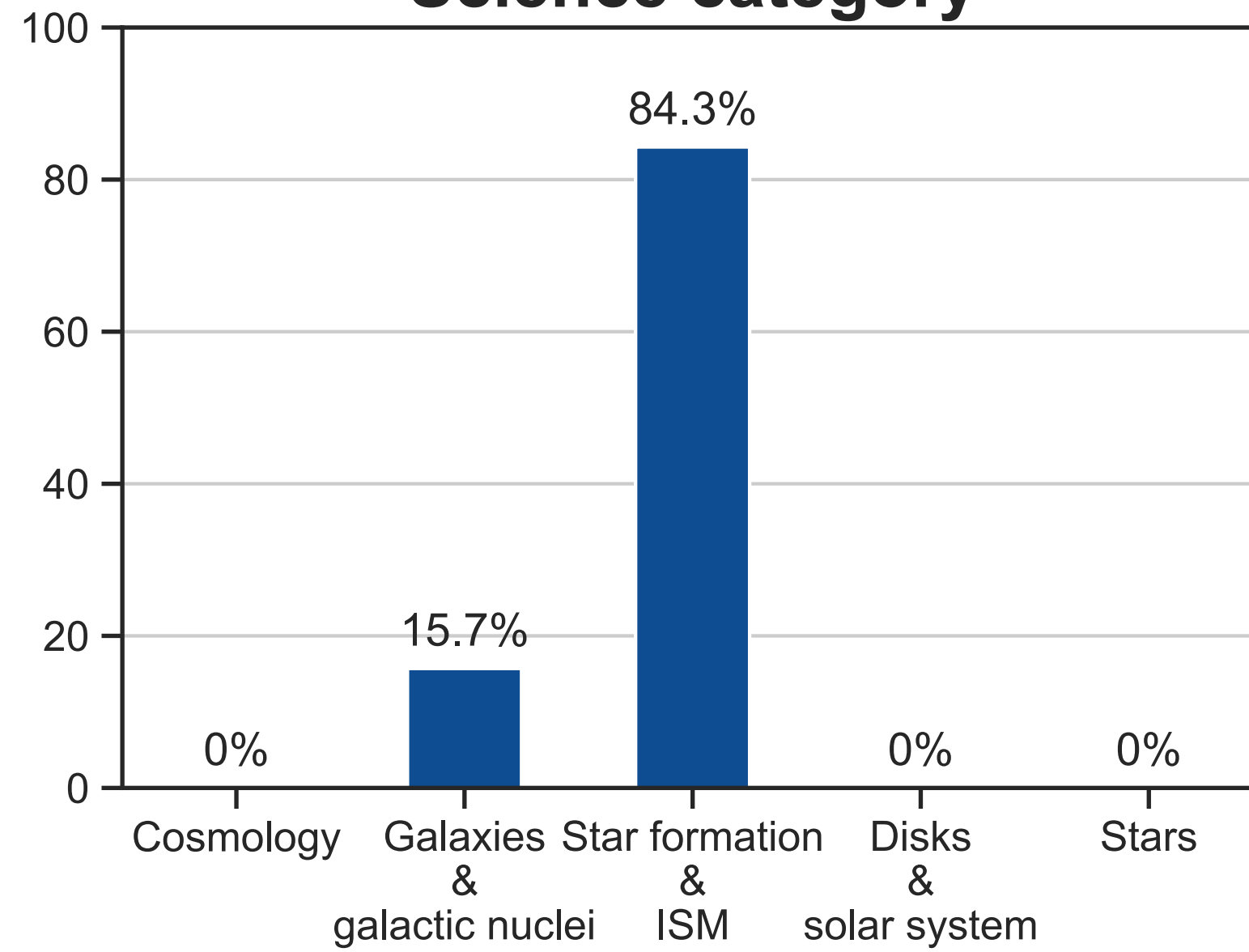
Requested time for Large Programs: Total Power Array



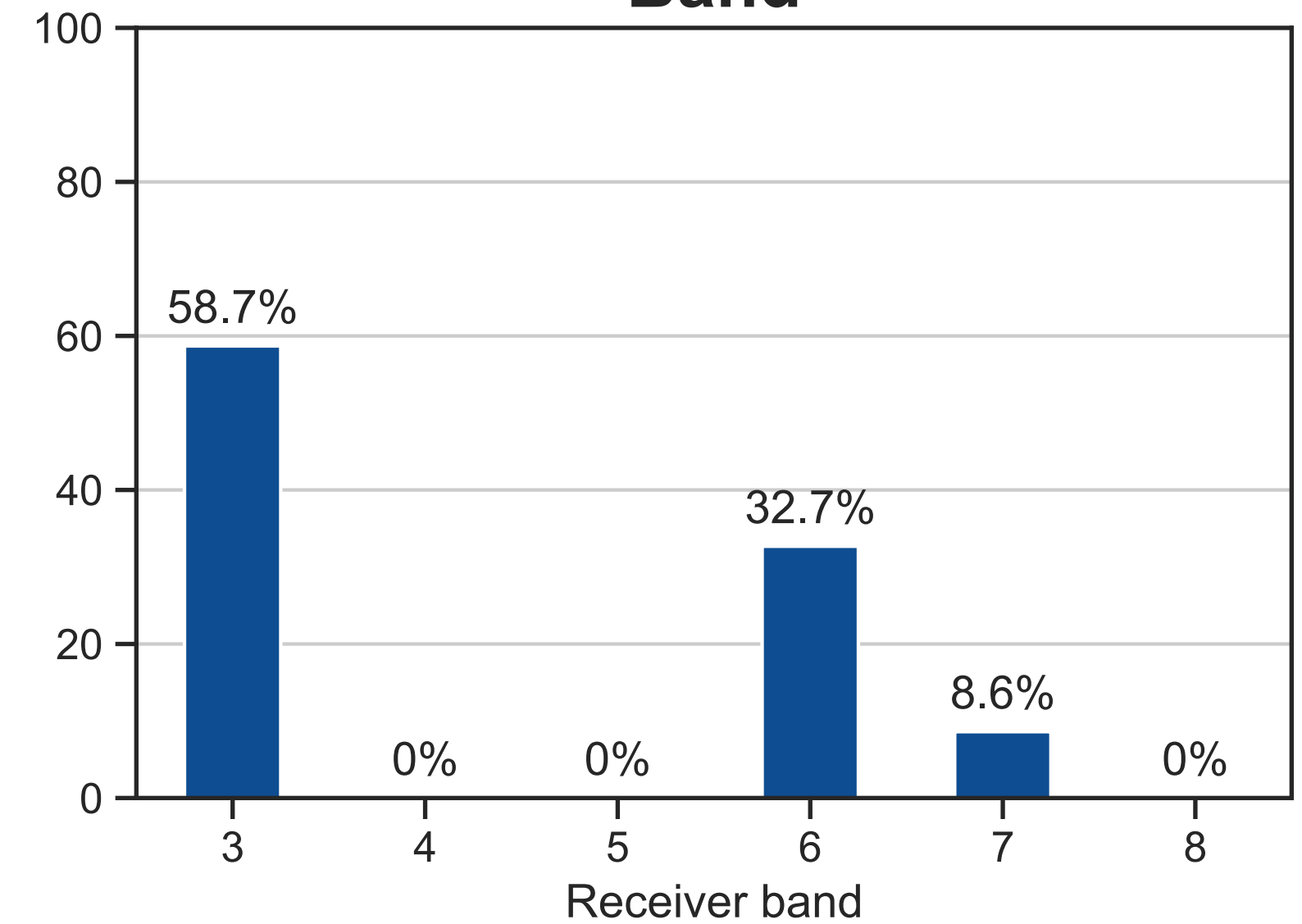
Region



Science category

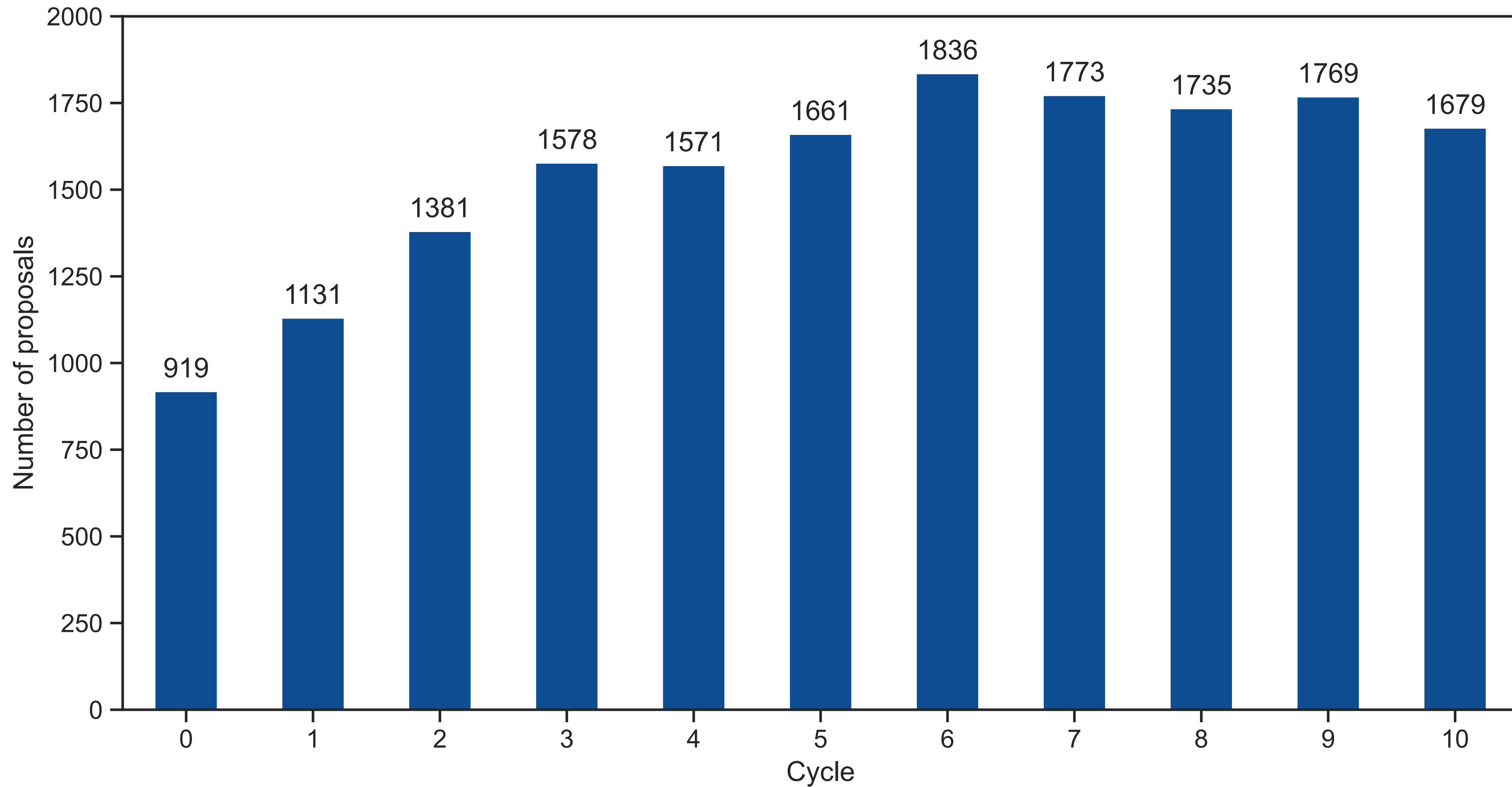


Band



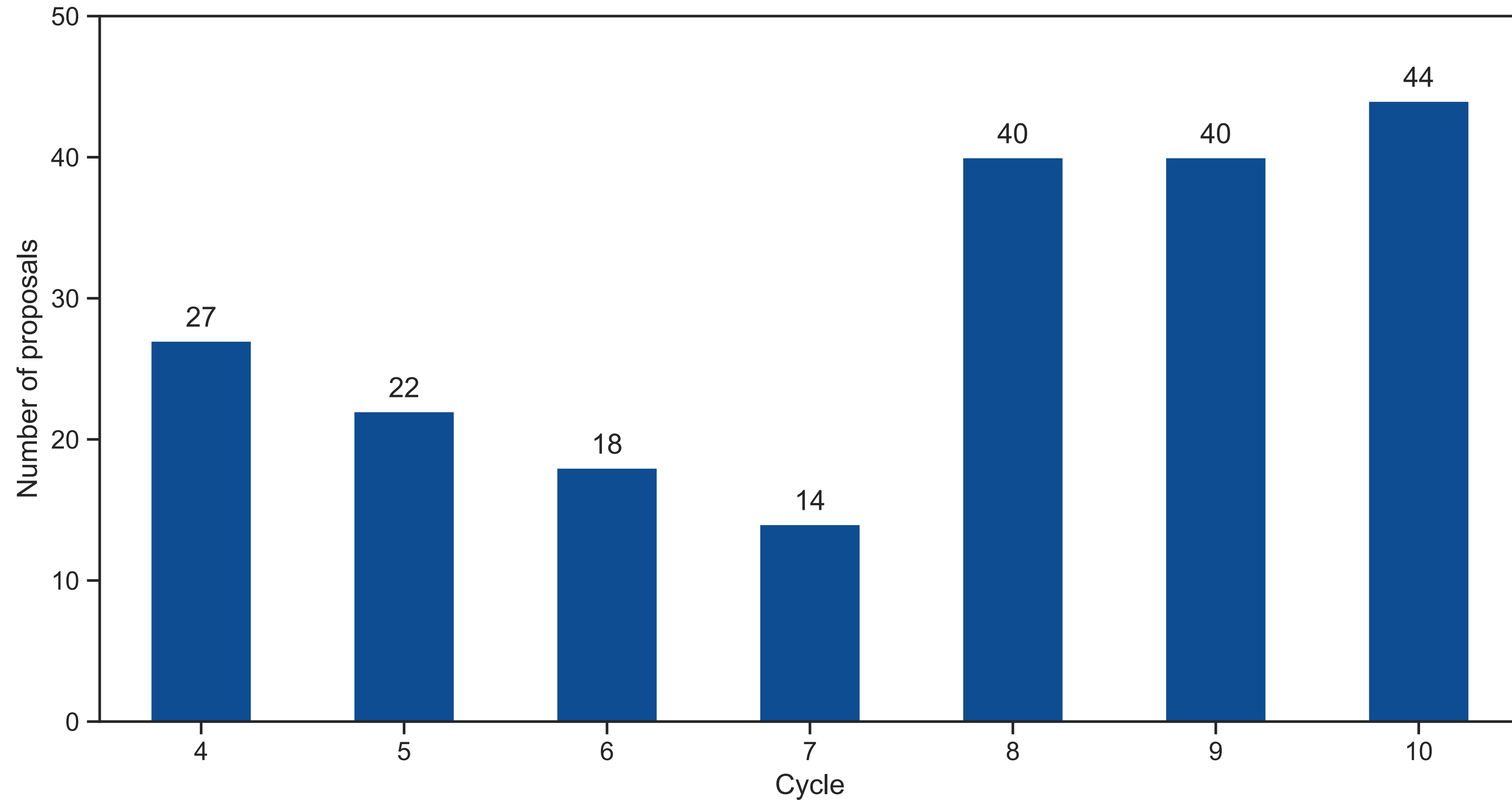


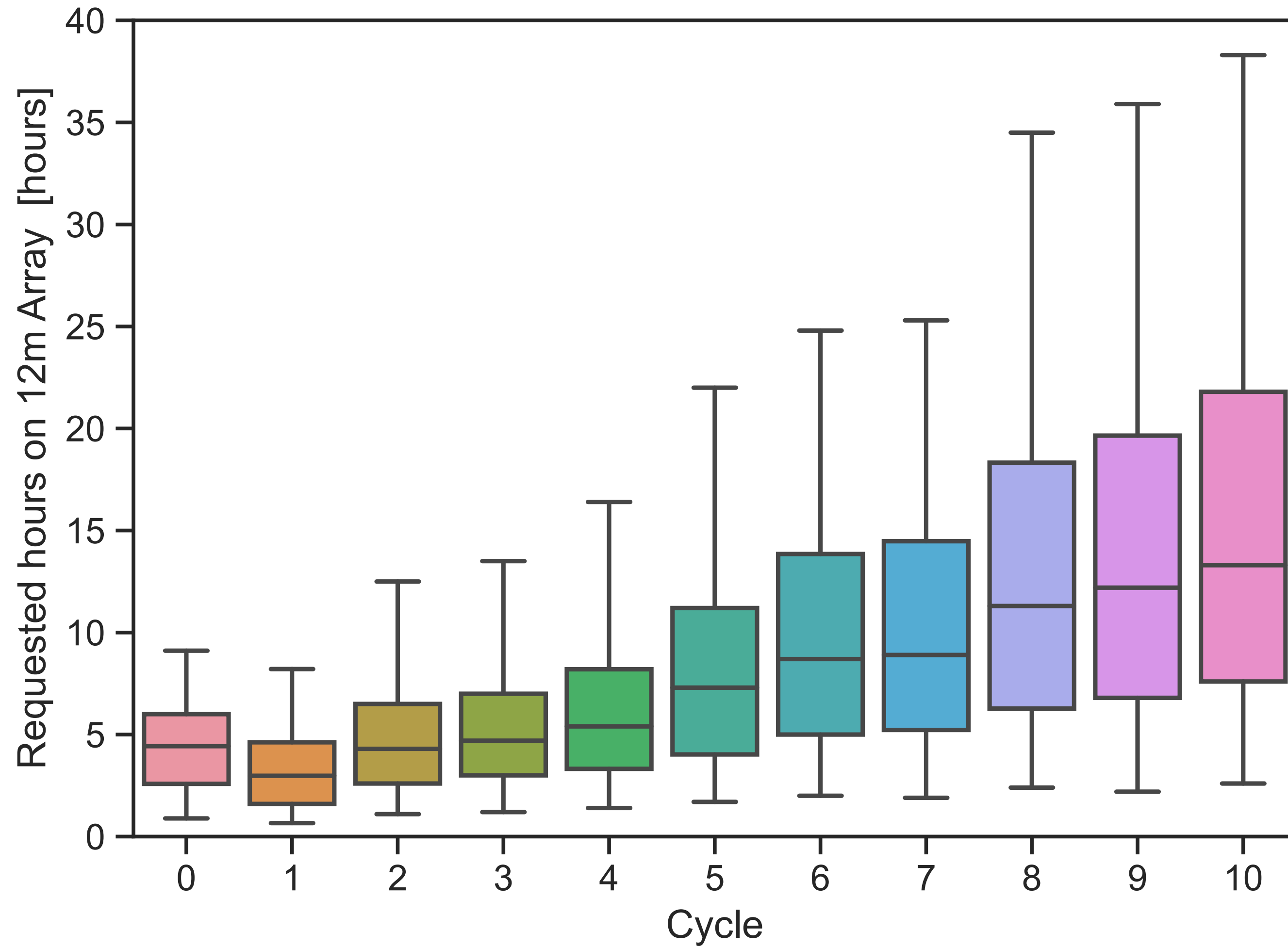
Number of submitted proposals by Cycle





Number of submitted Large Programs by Cycle

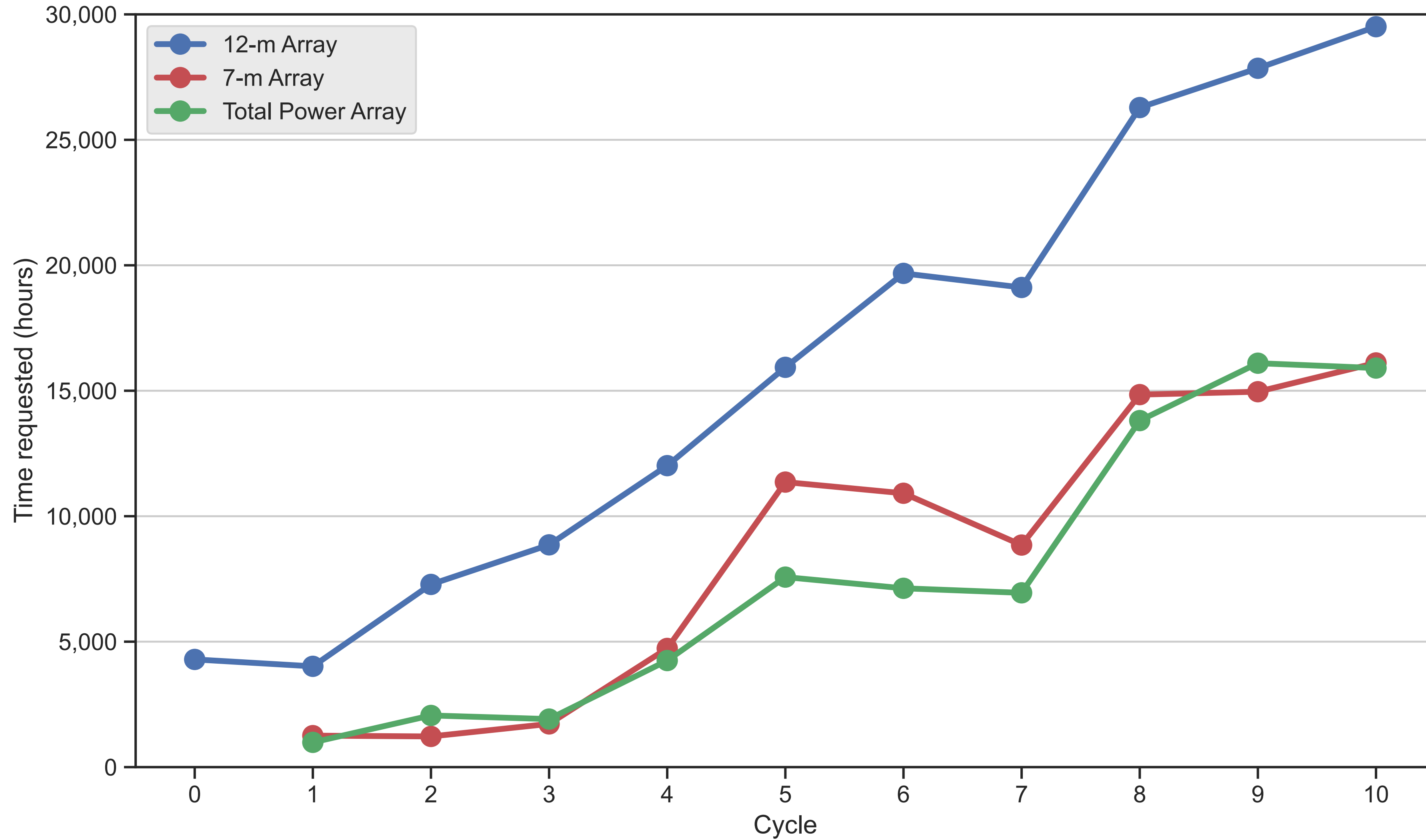




- Each box plot shows:
 - median (horizontal line)
 - 25-75% distribution (box)
 - 5-95% distribution (whiskers)
- Large Programs and standalone ACA proposals are excluded.



Time requested by Cycle





Oversubscription rate on 12-m Array by Cycle

