Current Metrics of EA Proposals

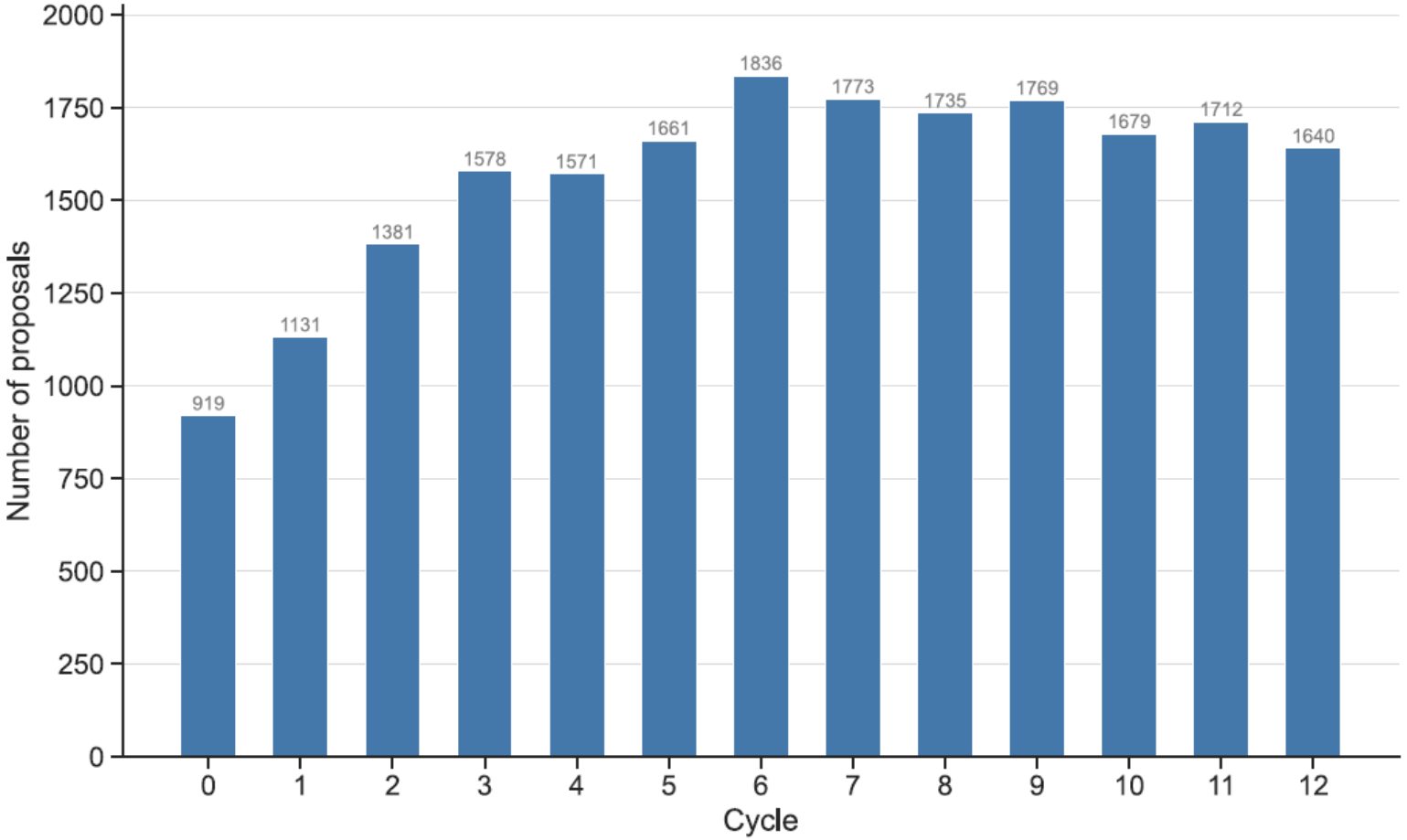
Bunyo Hatsukade

(NAOJ ALMA Project)

Based on materials created by John Carpenter, Andrea Corvillón, and the Proposal Handing Team (JAO)

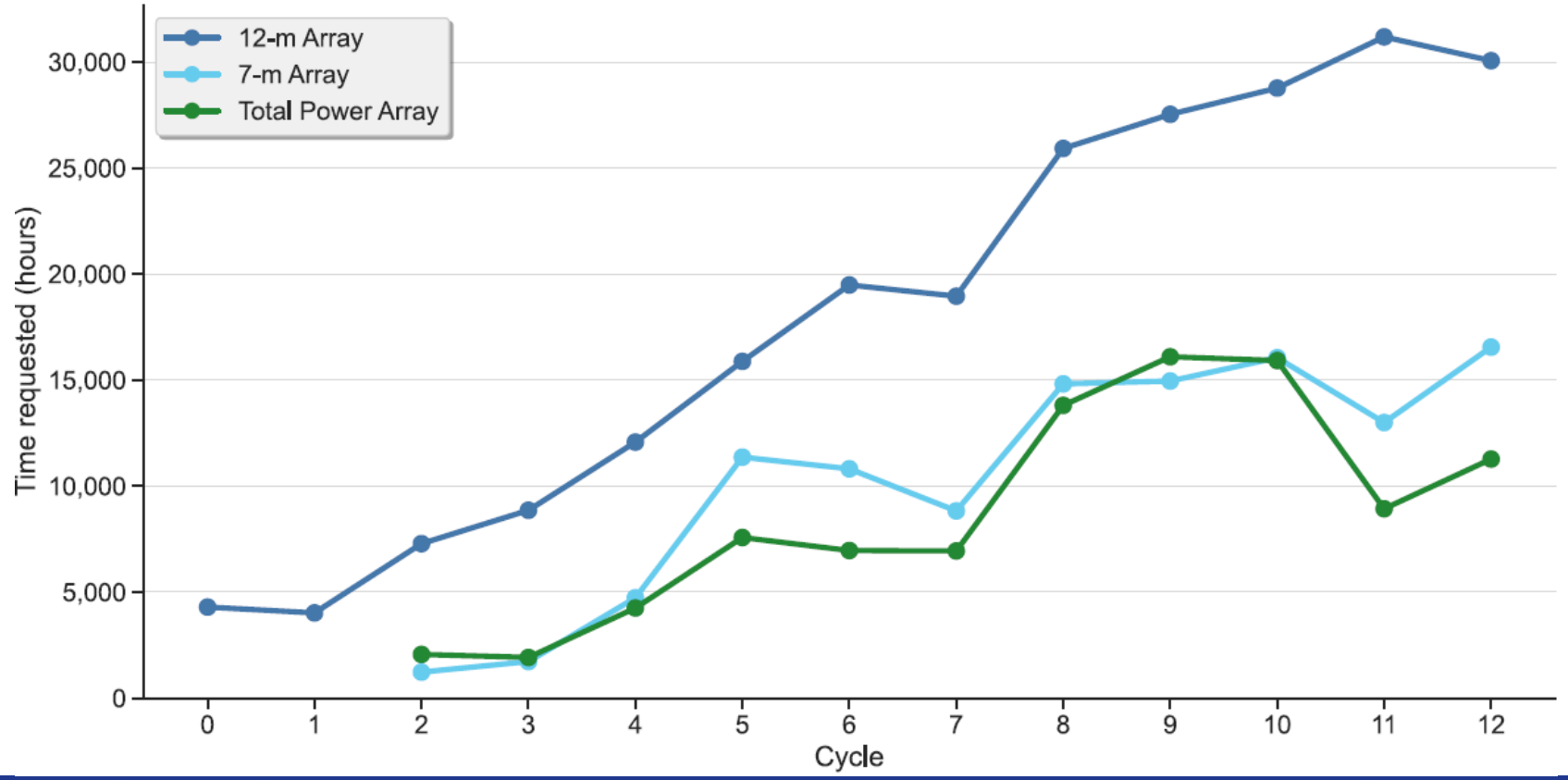
Number of submitted proposals by Cycle

A total of 1640 proposals were submitted in Cycle 12



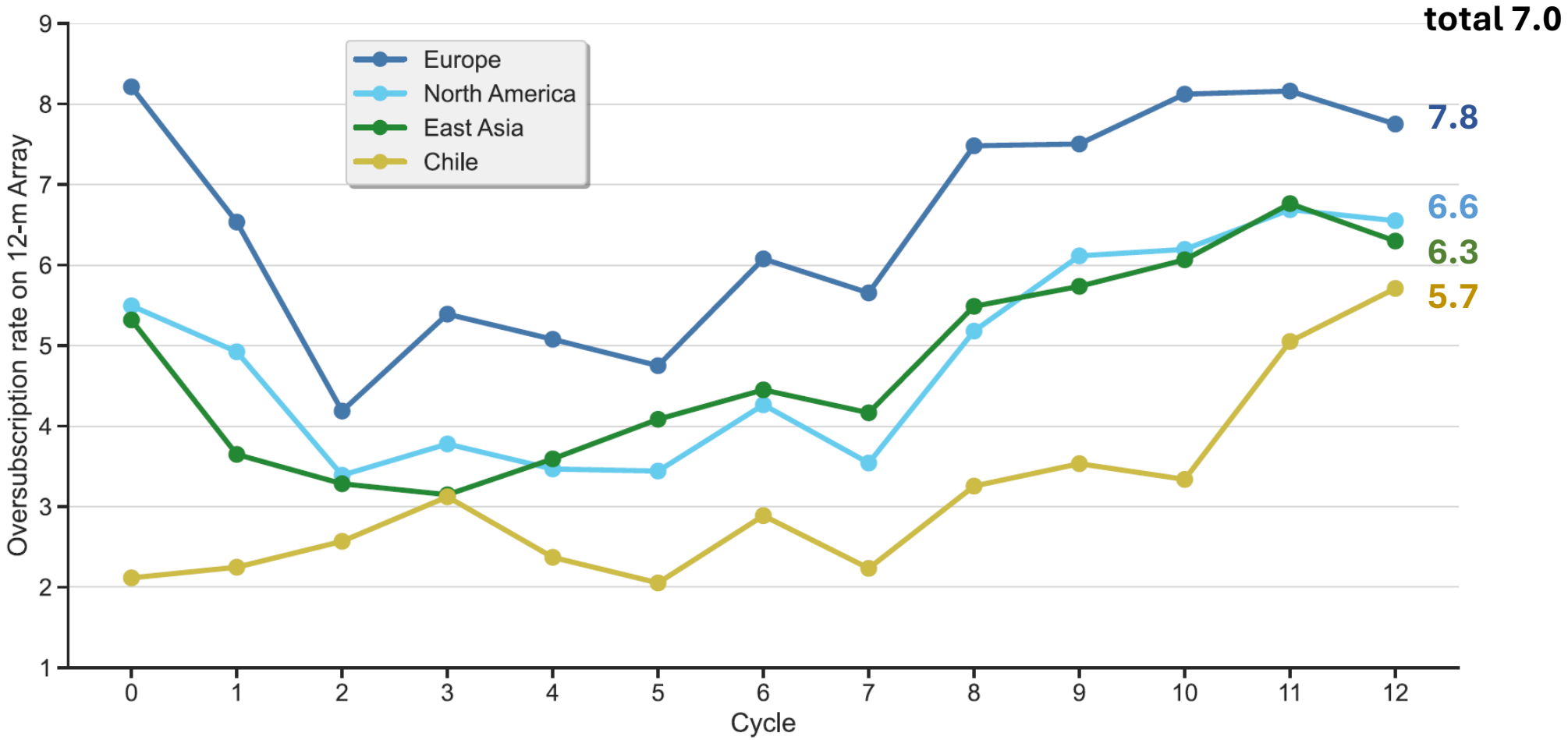
Time requested by Cycle

- Increase in the amount of requested time on 7-m and TP Arrays
  - Likely a result of pointing out in the CfP the high success rate of ACA proposals in Cycle 11



Oversubscription rate by Cycle

Continued high oversubscription rate in all regions

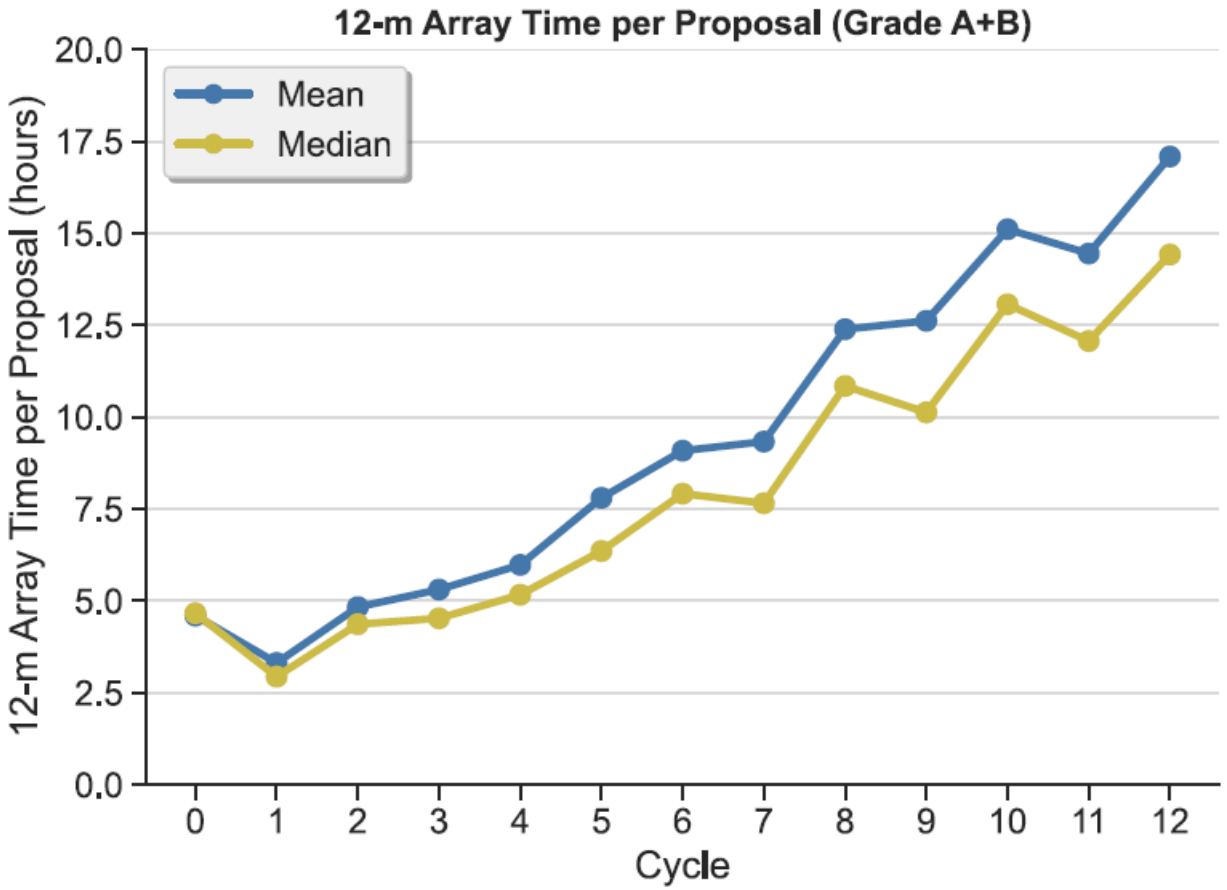


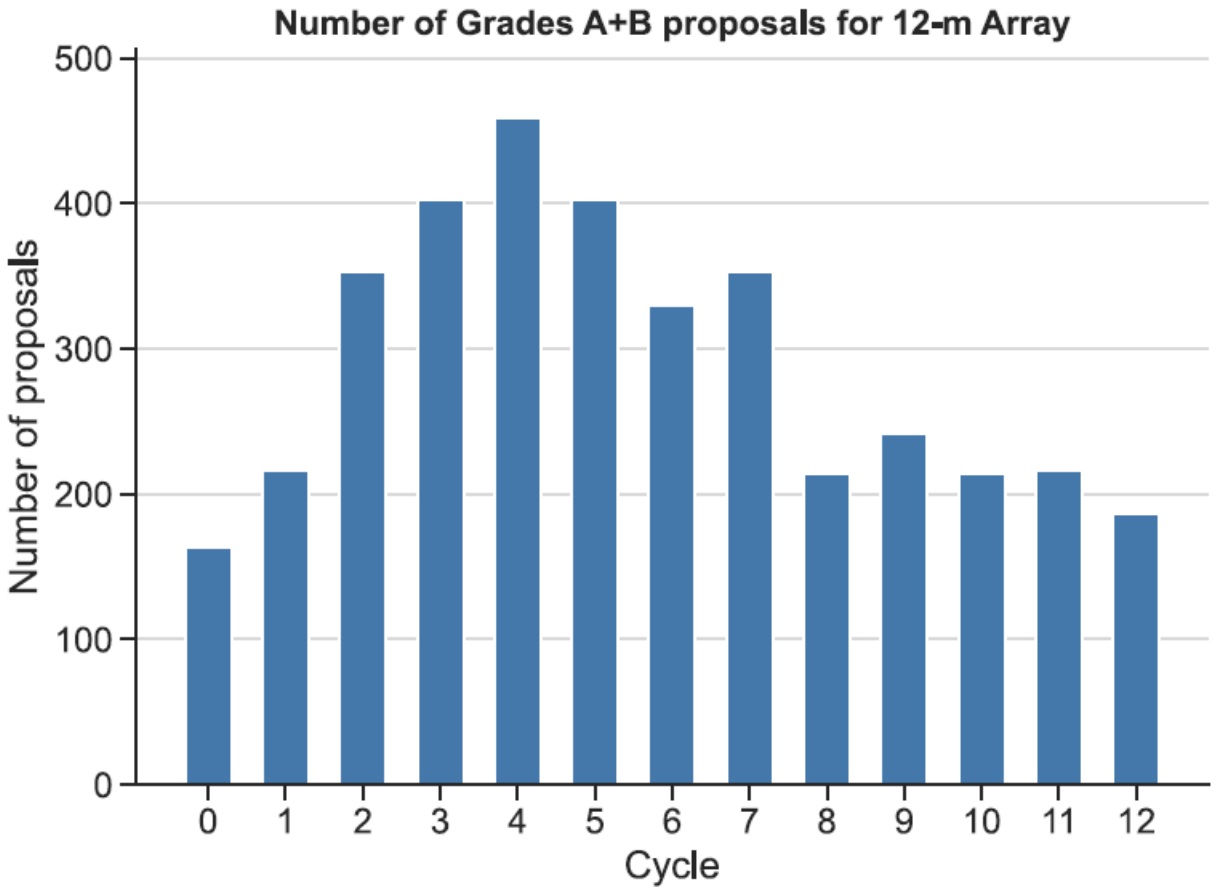
Submitted and accepted proposals by region

	Chile (CL)	East Asia (EA)	Europe (EU)	North America (NA)	Open Skies	Total
Submitted Proposals						
Number of proposals	141	360	587	487	65	1640
12-m Array time (hours)	2454	6094	11248	9510	757	30063
7-m Array time (hours)	1634	3572	5236	5460	642	16544
Total Power Array time (hours)	892	3293	3051	3488	550	11274
Subscription rate						
12-m Array (4300 h offered)	5.7	6.3	7.8	6.6		7.0
7-m Array time (4300 h offered)	3.8	3.7	3.6	3.8		3.8
Total Power Array (4300 h offered)	2.1	3.4	2.1	2.4		2.6
Grade A & B projects						
Number of proposals	21	52	70	66	2	211
12-m Array time (hours)	462	910	1363	1378	45	4159
7-m Array time (hours)	415	452	511	1094	0	2473
Total Power Array time (hours)	374	429	437	989	4	2232
Grade C projects						
Number of proposals	34	85	100	86	12	317
12-m Array time (hours)	398	901	1274	1236	75	3884
7-m Array time (hours)	607	1696	1941	1492	285	6021
Total Power Array time (hours)	219	1760	952	791	192	3913

Accepted (Grade A+B) proposals

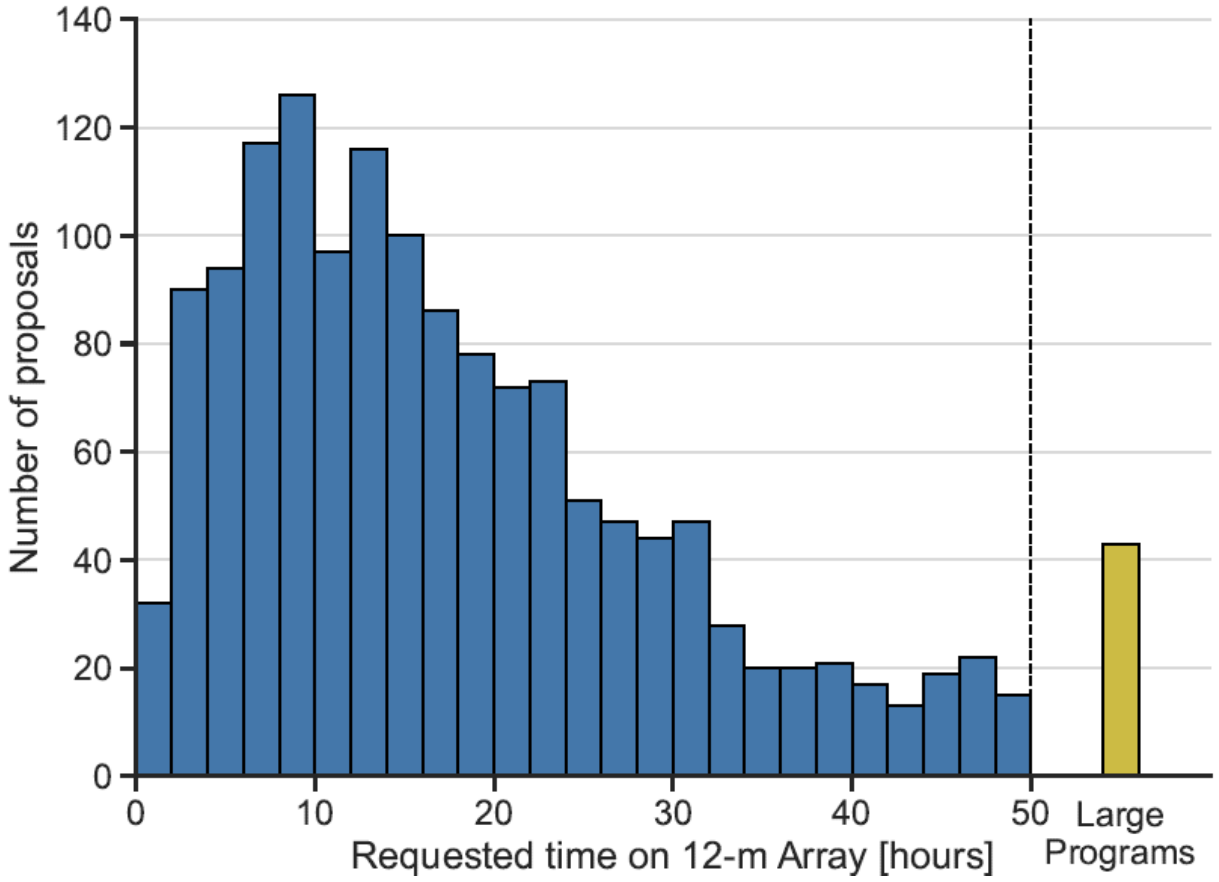
Typical size of the accepted proposals increased ➔ fewer proposals accepted

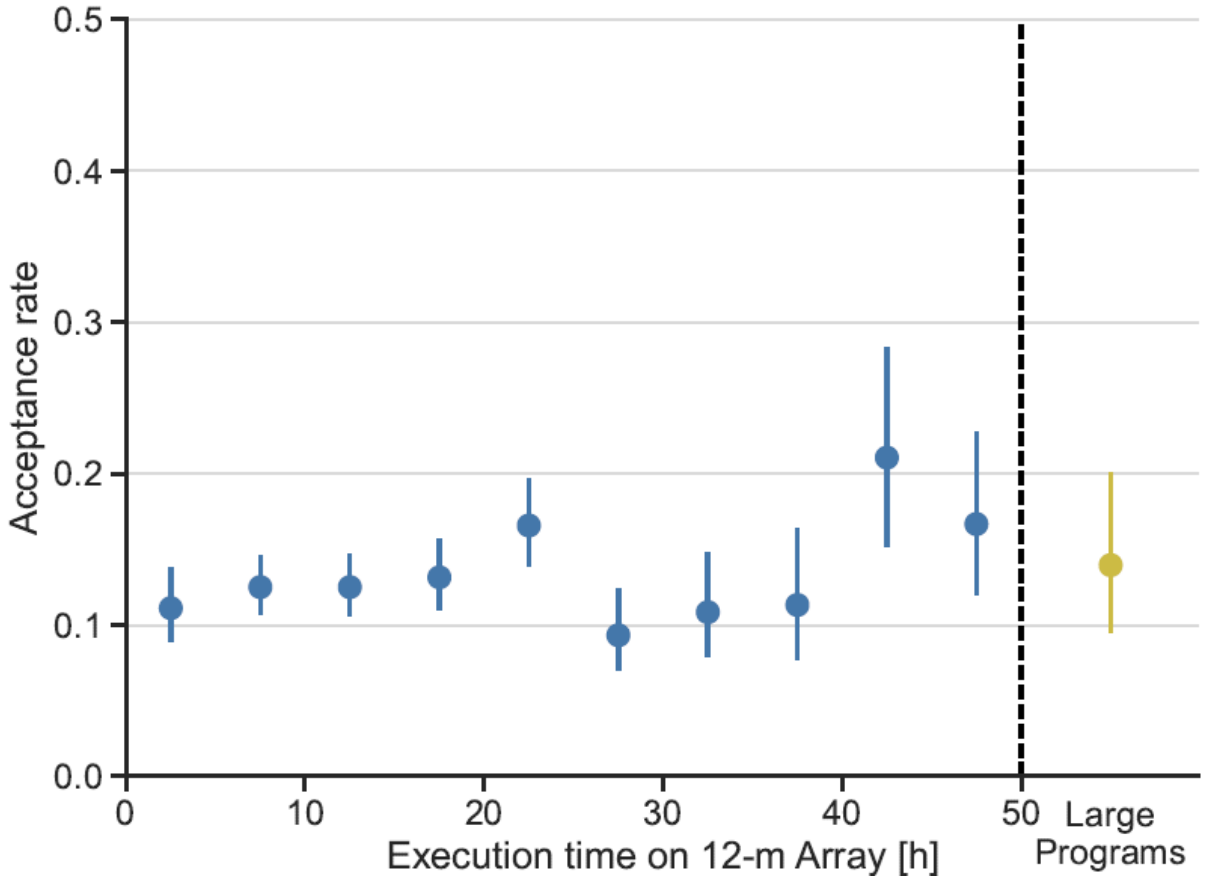




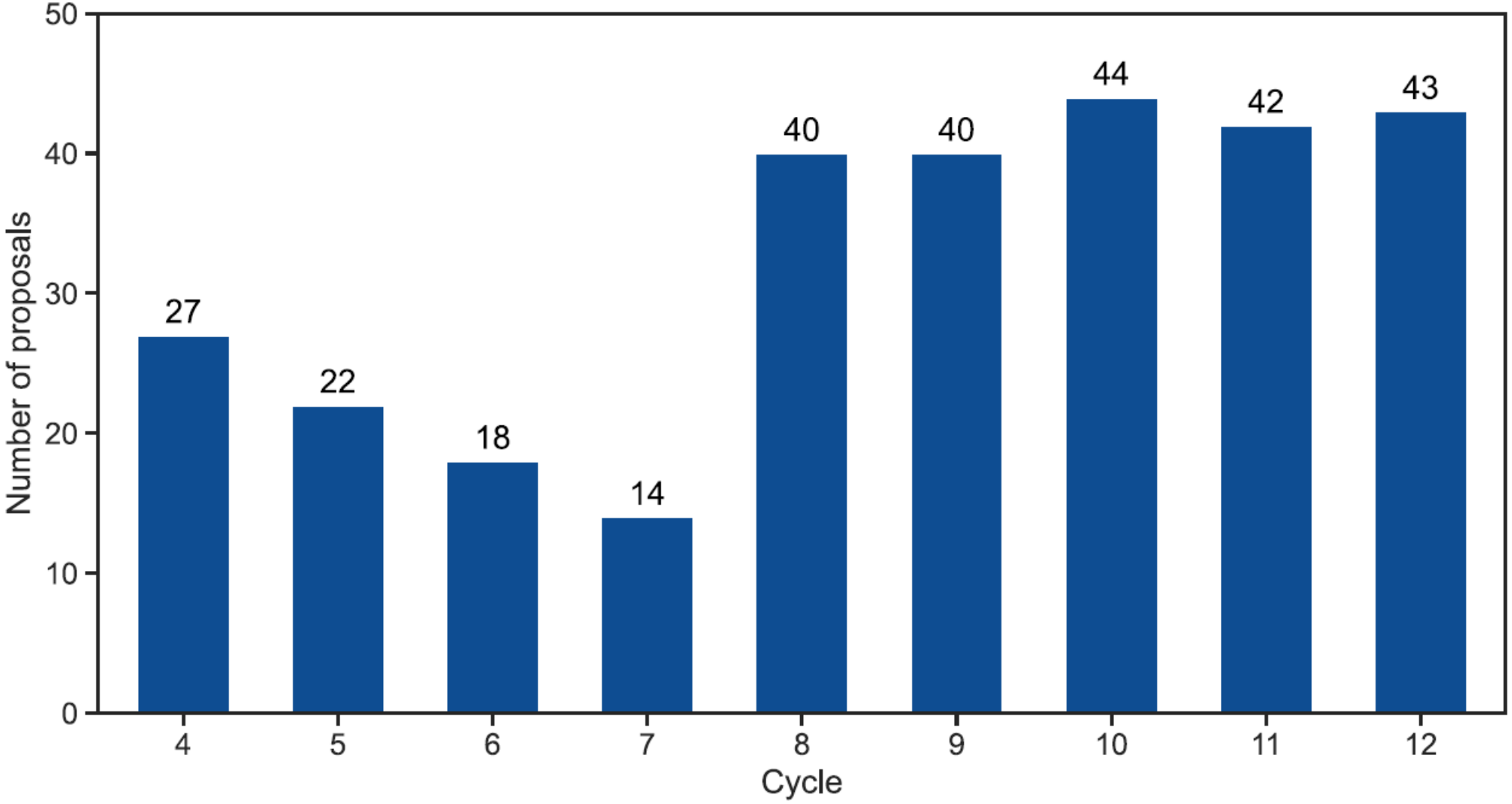
Number of proposals submitted and acceptance rate as a function of 12-m array time

Acceptance rate (Grade A+B) is largely independent of the requested 12-m array time

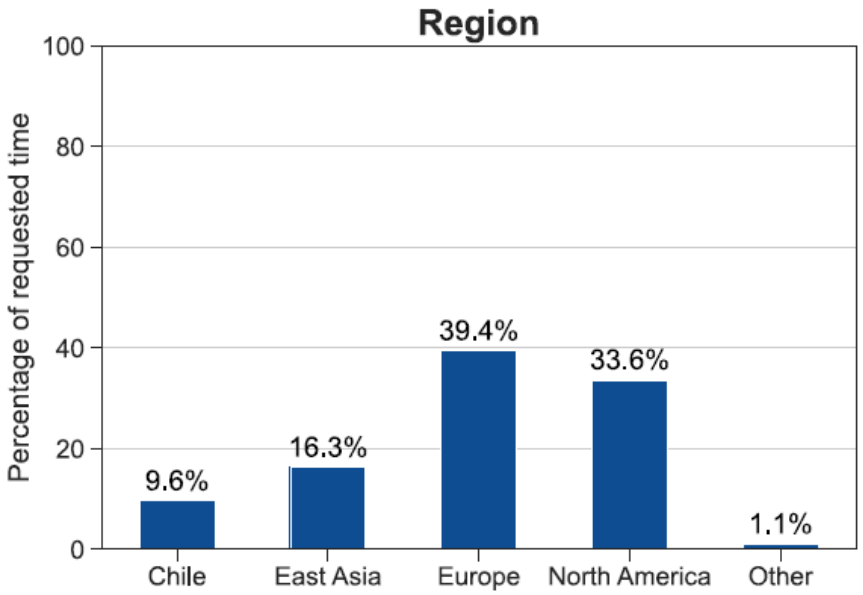


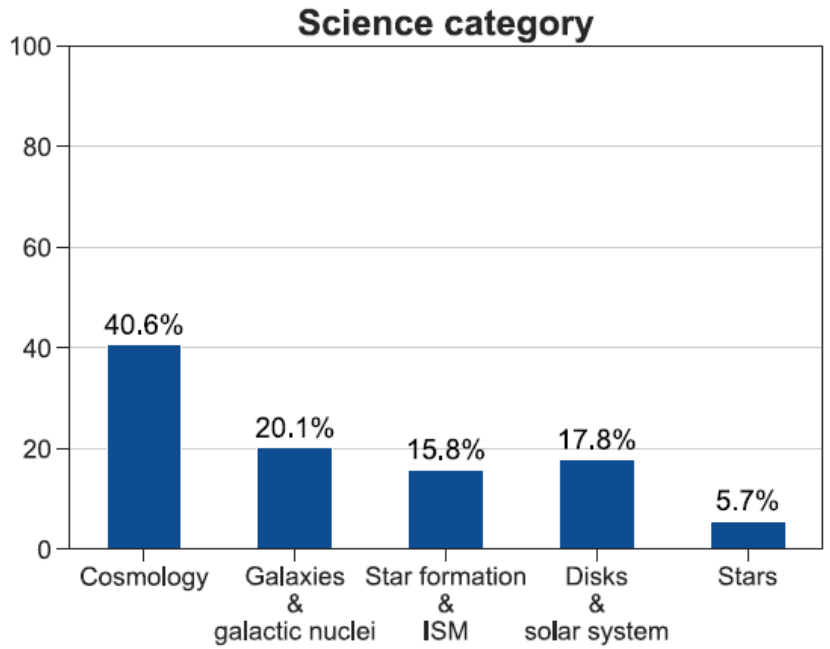


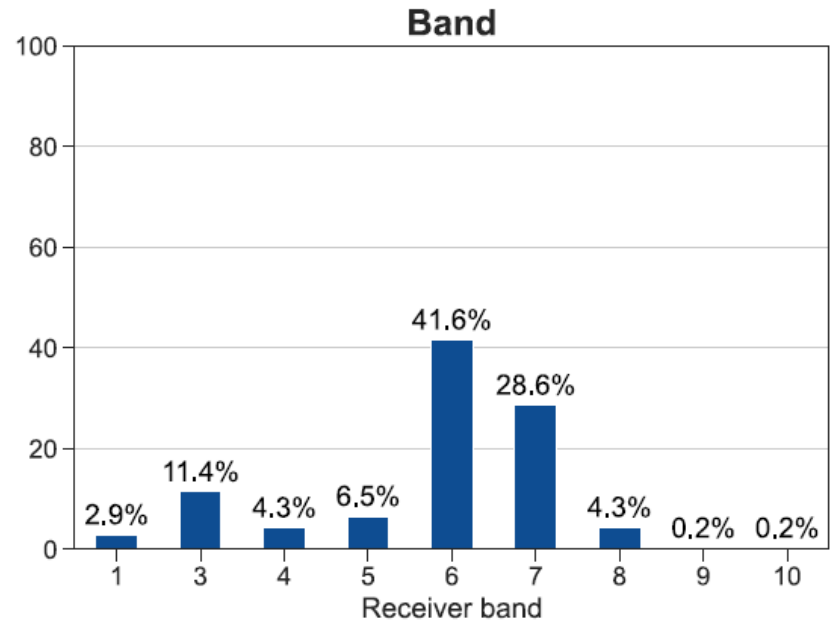
Number of submitted Large Programs by Cycle



Requested time for Large Programs: 12-m Array





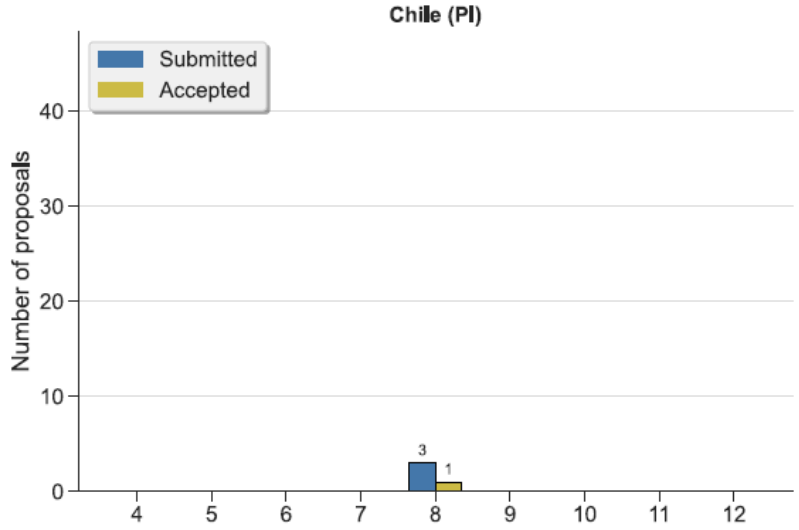


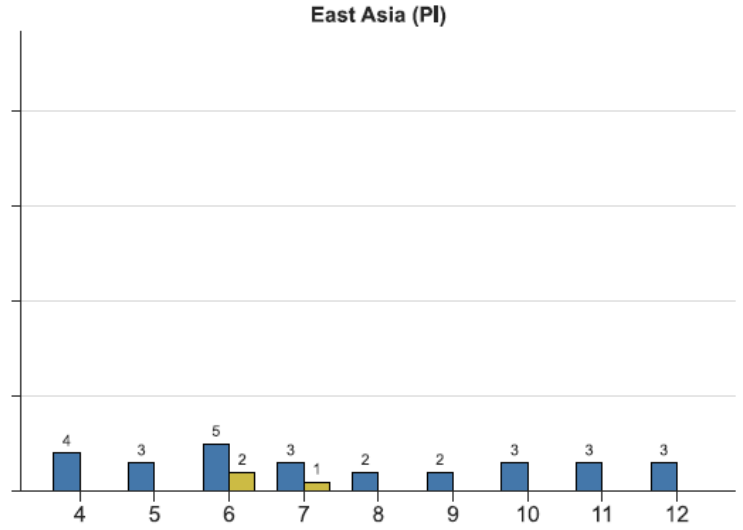
Large Programs (accepted)

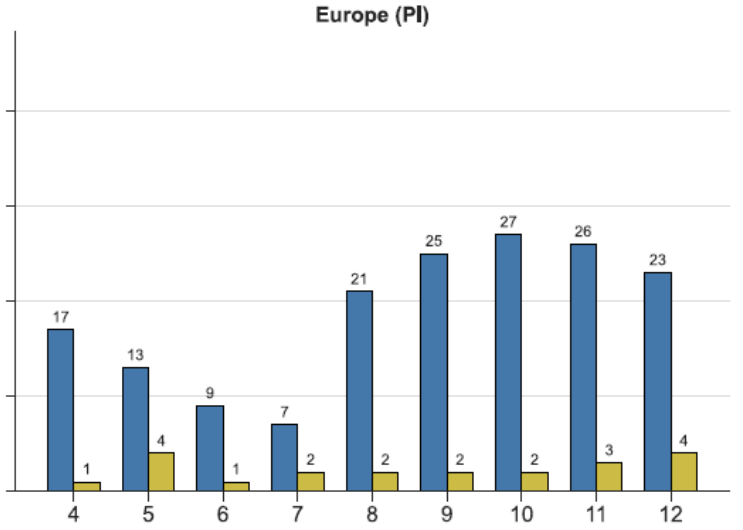
Title	PI	Region	Category*
PHOENIX: the Emergence of Dust, Obscured Star Formation and ISM Physics at Cosmic Dawn	Schouws Sander (EU)	EU CL EA NA	10
Panta Rei: Following the flow of star cluster formation	Peretto Nicolas (EU)	EU CL EA	31
Meet in the Middle: An ALMA Treasury of Mid-Stage Mergers	Linden Sean (NA)	NA EU CL EA OTHER	20
The 10 pc Survey of Molecular Clouds and Stellar Feedback	Leroy Adam (NA)	NA EU	20
DMOST: Disks around the MOST common stars	Kurtovic Nicolas (EU)	EU CL NA	41
HIDING in the HUDF: High-definition Dust Imaging of Normal Galaxies in the Hubble Ultra Deep Field	Boogaard Leindert (EU)	CL EU NA	10

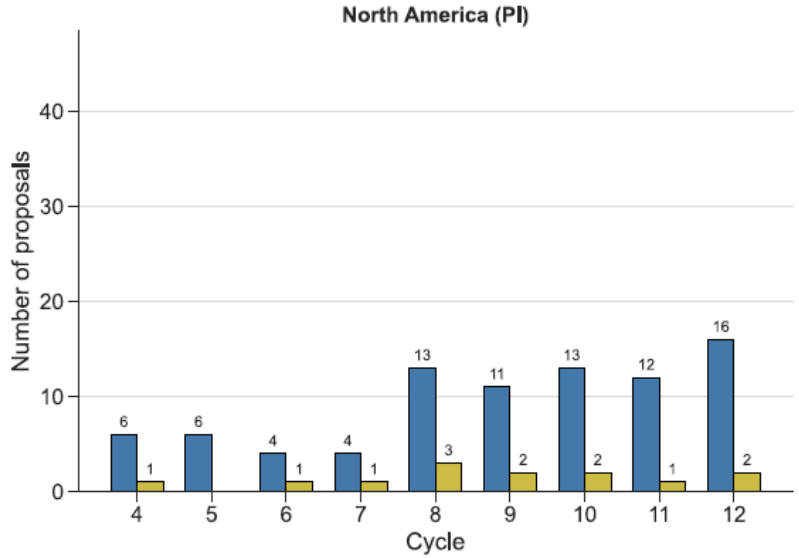
*Category:
10=Cosmology and the high redshift universe
20=Galaxies and galactic nuclei
31=Interstellar medium, star formation, and astrochemistry
41=Circumstellar disks, exoplanets, and the solar system
50=Stellar evolution and the Sun

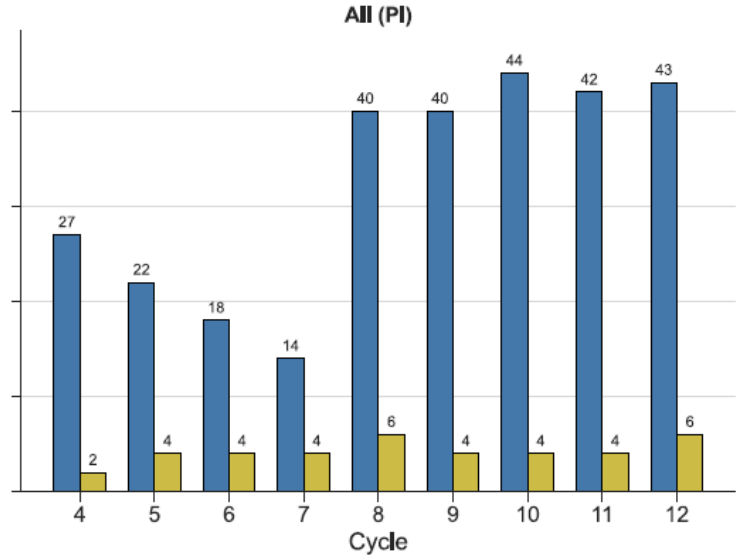
Distribution of Large Program PIs by Cycle









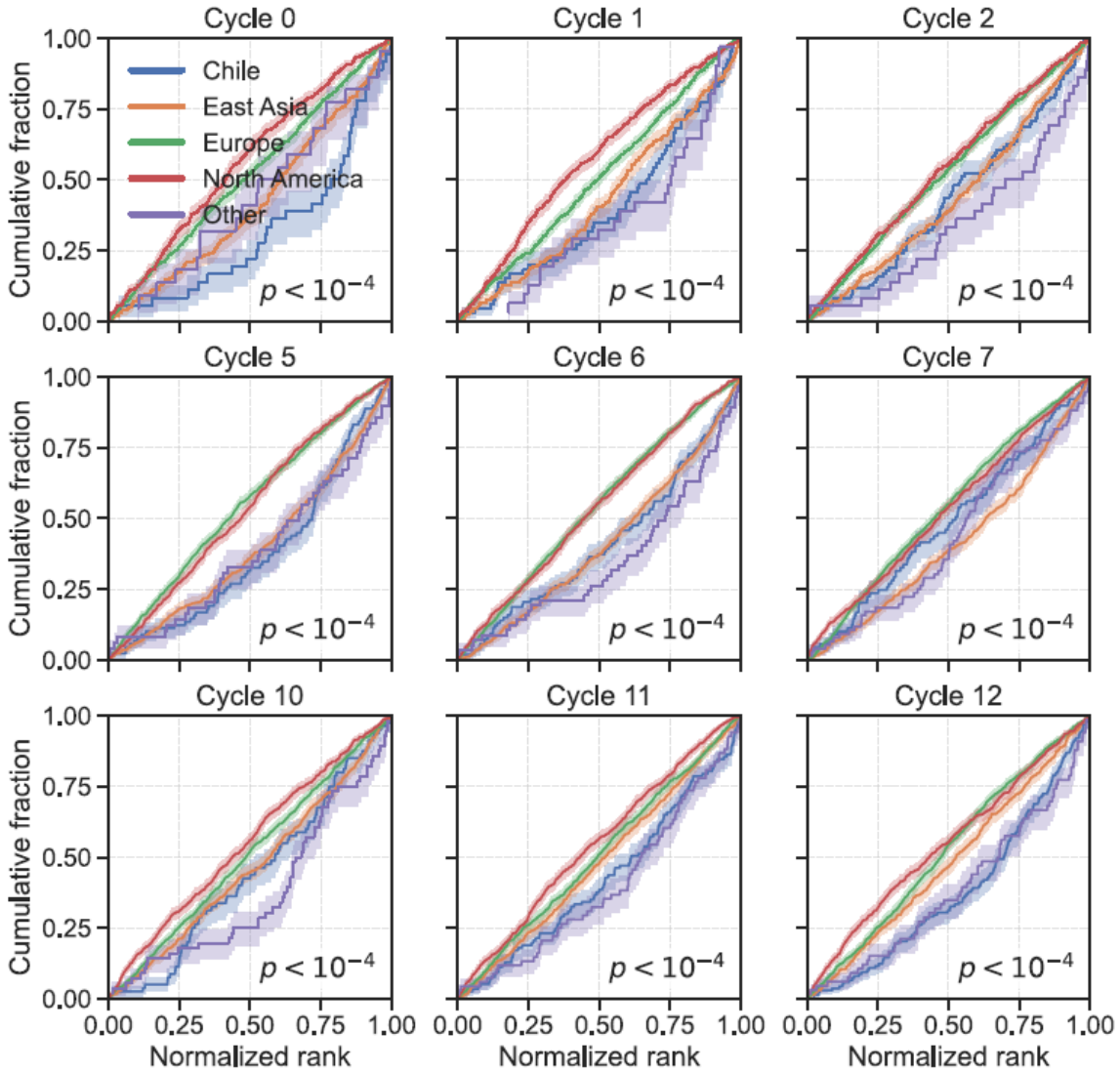


Joint Proposals

- 79 Joint Proposals submitted
  - 2 proposals requested time on 2 or more partner observatories
- 12 proposals were accepted (Grade A & B)

Partner Observatory	Number of proposals accepted
JWST	8 (71 h)
VLA	2 (10 h)
VLT	2 (8 h)

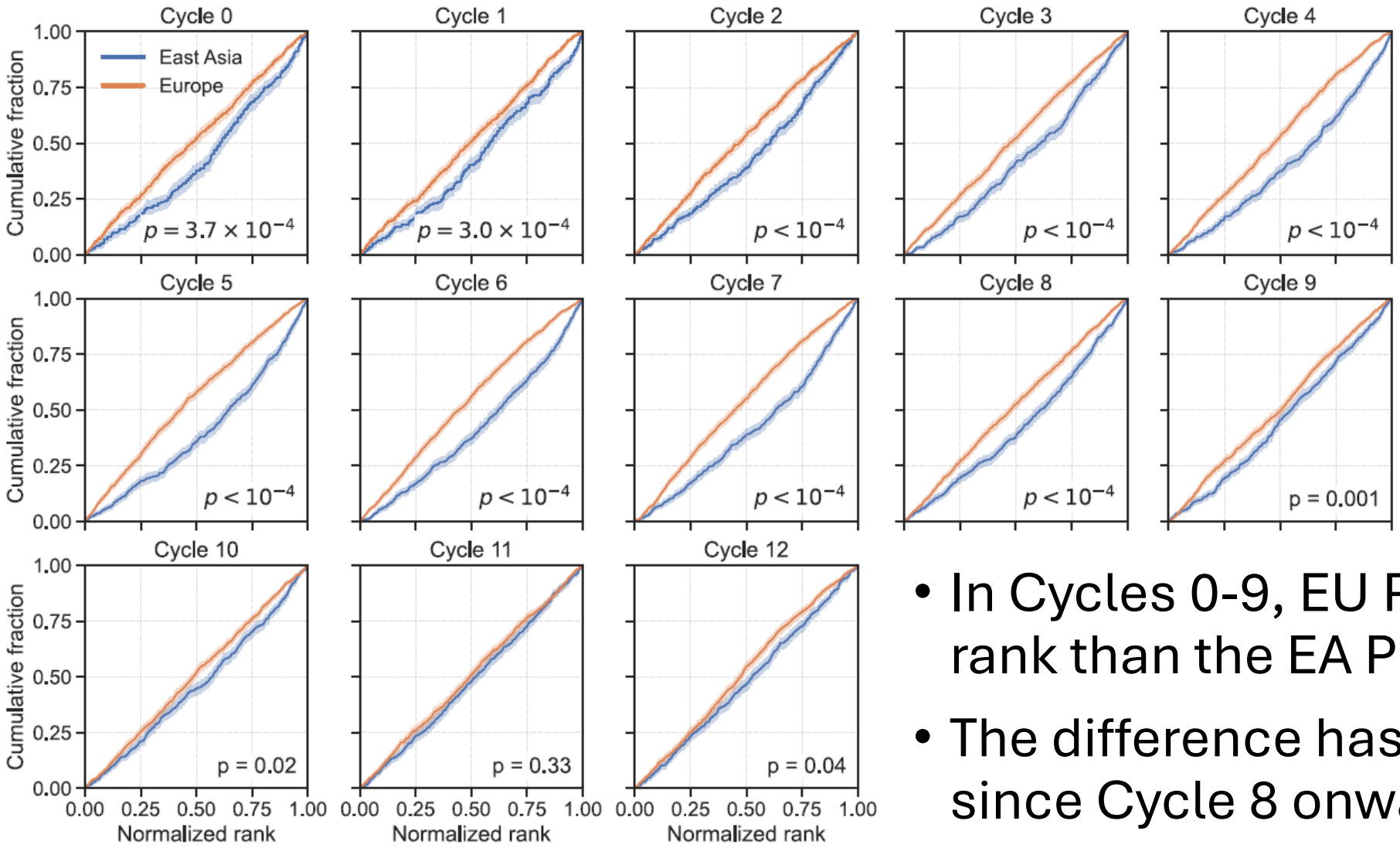
Difference in rankings between by region



- Cumulative distribution of ranks by cycle
- Curves shifted to the upper left have better ranks

- NA continues to have better-than-average overall ranks
- Chile and open skies tend to have below-average ranks
- Trend for EA is positive (see next)

Difference in rankings between EA and Europe



- In Cycles 0-9, EU PIs had a better rank than the EA PIs
- The difference has been decreasing since Cycle 8 onwards

Summary

- Cycle 12 proposal statistics
  - Number of submitted proposals slightly decreased in Cycle 12 over Cycle 11
  - Oversubscription rate continued to be high in all regions
  - Typical size of the accepted proposals increased ➔ fewer proposals accepted
  - Acceptance rate is largely independent of the requested 12-m array time
  - 6 Large Programs accepted: 3 have EA co-Is
  - Trend for EA in overall rankings is positive
    - In Cycles 0-9, EU PIs had statistically better ranks than the EA PIs
    - The difference has been decreasing since Cycle 8