



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

HST Cycle 31 Submission Statistics

Brett Blacker
on behalf of the STScI Science Policies Group

May 31, 2023



didn't we just do this





Cycle 31 Review Schedule

Date	Milestone
May 24, 2023	Cycle 31 Proposal Deadline
June 7, 2023	STScI releases proposals to panelists for review
July 14, 2023	Orientation meeting for Panel Chairs
June 12, 2023	Orientation meeting for Discussion panelists
June 19, 2023	Deadline for panelists to identify conflicts of interest
June 14, 2023	Orientation meeting for External panelists
July 14, 2023	Deadline for Discussion panelists to submit preliminary grades for their assigned proposals
July 14, 2023	Deadline for External panelists to submit grades for their assigned proposals
July 17, 2023	STScI sends each Discussion panelist the list of proposals to be discussed by their panel
July 21, 2023	Deadline for EC to submit preliminary grades for Large, Treasury and AR Legacy proposals
July 24, 2023	STScI releases list of proposals to be discussed during the EC meeting
August 1 – 4, 2023	Discussion panels meet
August 7 – 9, 2023	Executive Committee meets
August 12, 2023	Deadline for Panel Chairs to submit final consensus reports
August 21, 2023	STScI releases the Cycle 31 Science Program



Summary

- The HST Cycle 31 Phase I deadline was on May 24, 2023
 - A total of 965 submissions were received by this date
 - ~10% smaller than the Cycle 17-31 Average (1070)
- The 965 complete proposals include
 - 203 proposal led by ESA PIs (21%)
 - 8365 Investigators
 - 3676 Unique investigators (PI, co-PI & co-I)
- Representation from
 - 51 Countries (**New Col Countries Ecuador, Indonesia, Namibia and Nepal**)
 - 47 US states and territories
- STScI Representation
 - PIs (8.3%); CoPIs (8.6%), and Cols (9.4%)
- TAC meeting is scheduled for August 1 – 4 & August 7 – 9 , 2023 (Executive Committee)



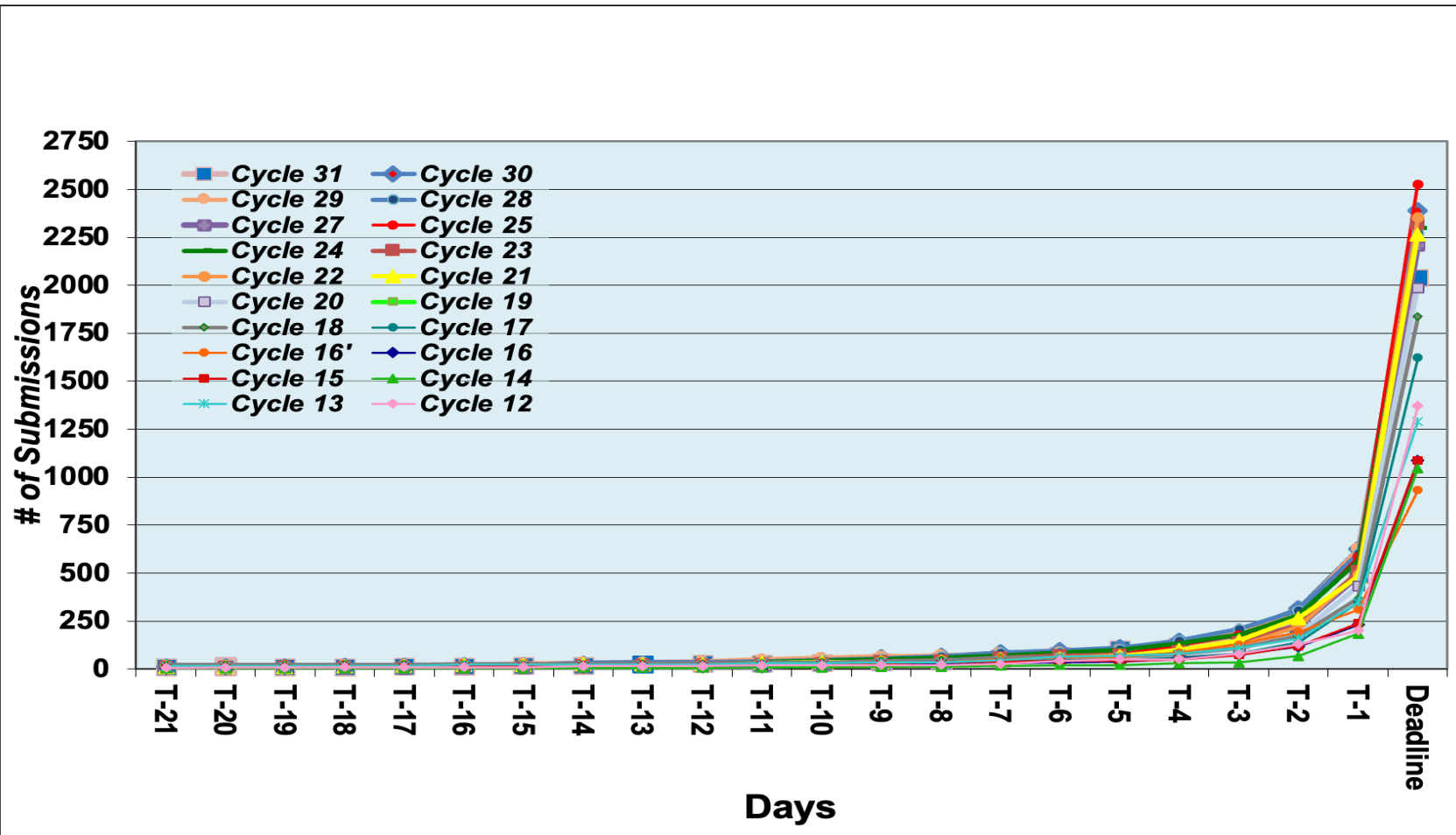
Proposals

- 795 GO proposals for 18653 Orbits (~7-1 oversubscription), including
 - 655 Small for 8719 Orbits
 - 100 Medium for 4874 Orbits
 - 40 Large for 5060 Orbits
 - 19 Treasury for 2241 Orbits
 - 194 ESA for 4411 Orbits
 - 1 Calibration for 8 Orbits
 - 2 Pure Parallel proposals for 430 Orbits
- 43 Snapshot proposals requesting 5320 targets
- 127 Archival Research
 - 73 Regular
 - 41 Theory
 - 13 Legacy
 - 3 Cloud Computing
 - 4 Data Science Software



Just another Deadline

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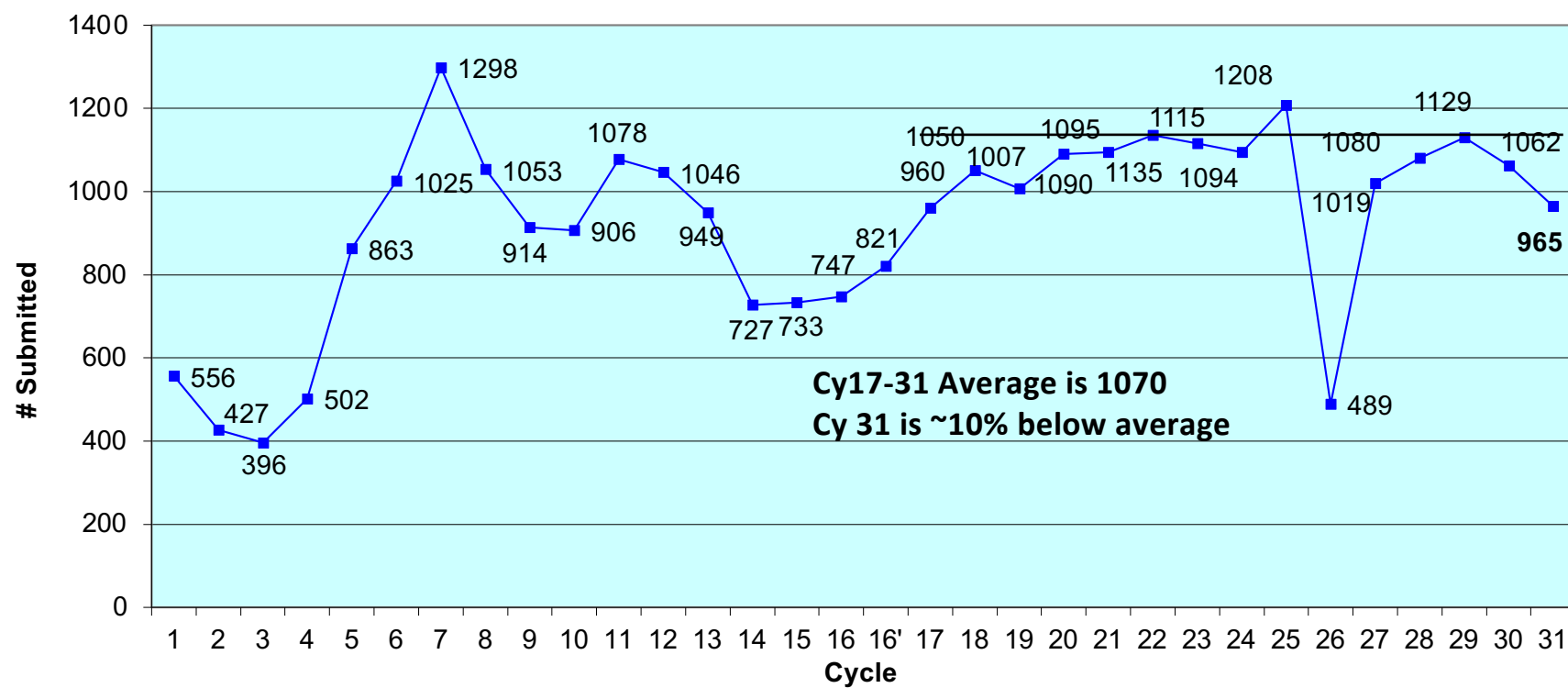




Proposal Statistics

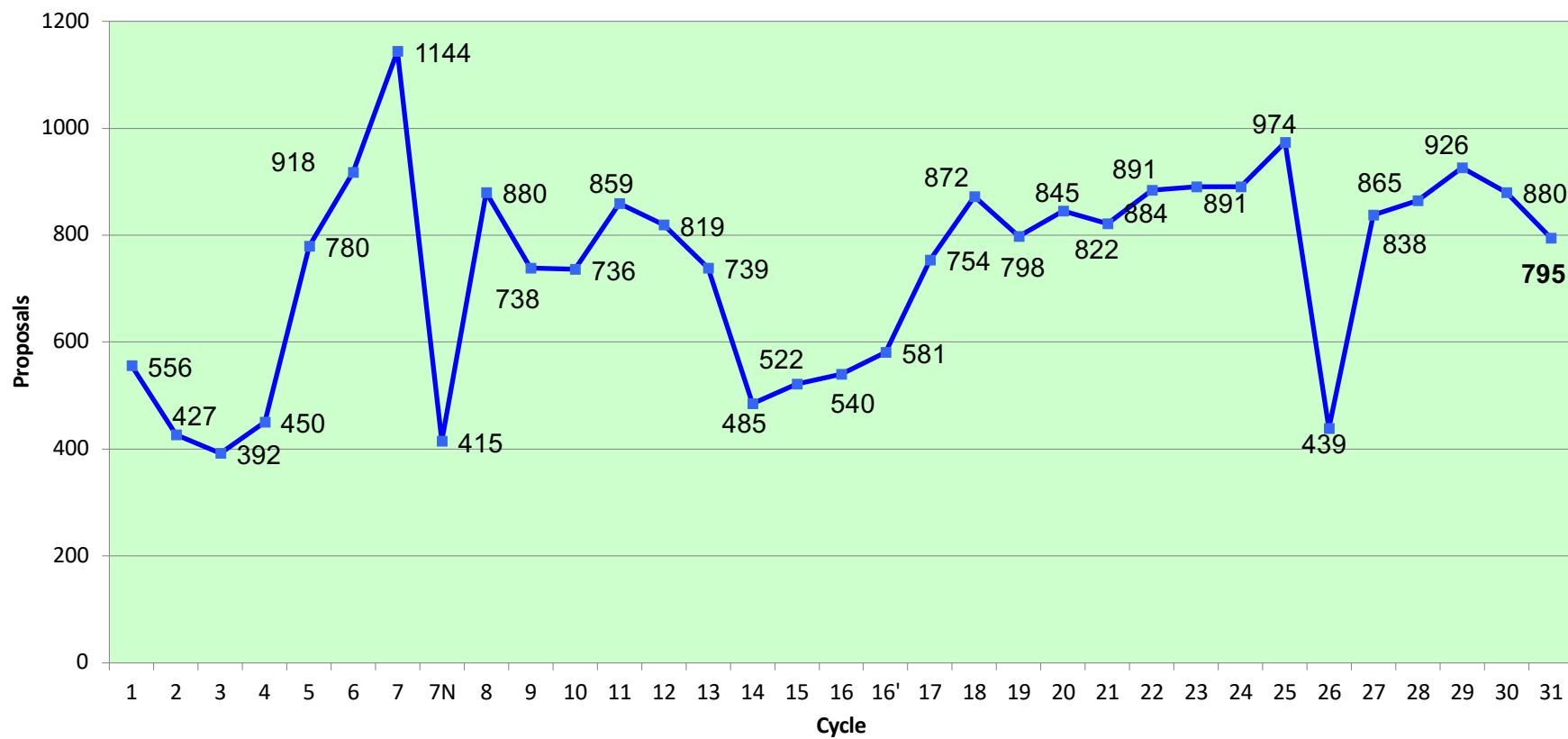


HST Proposal Submissions



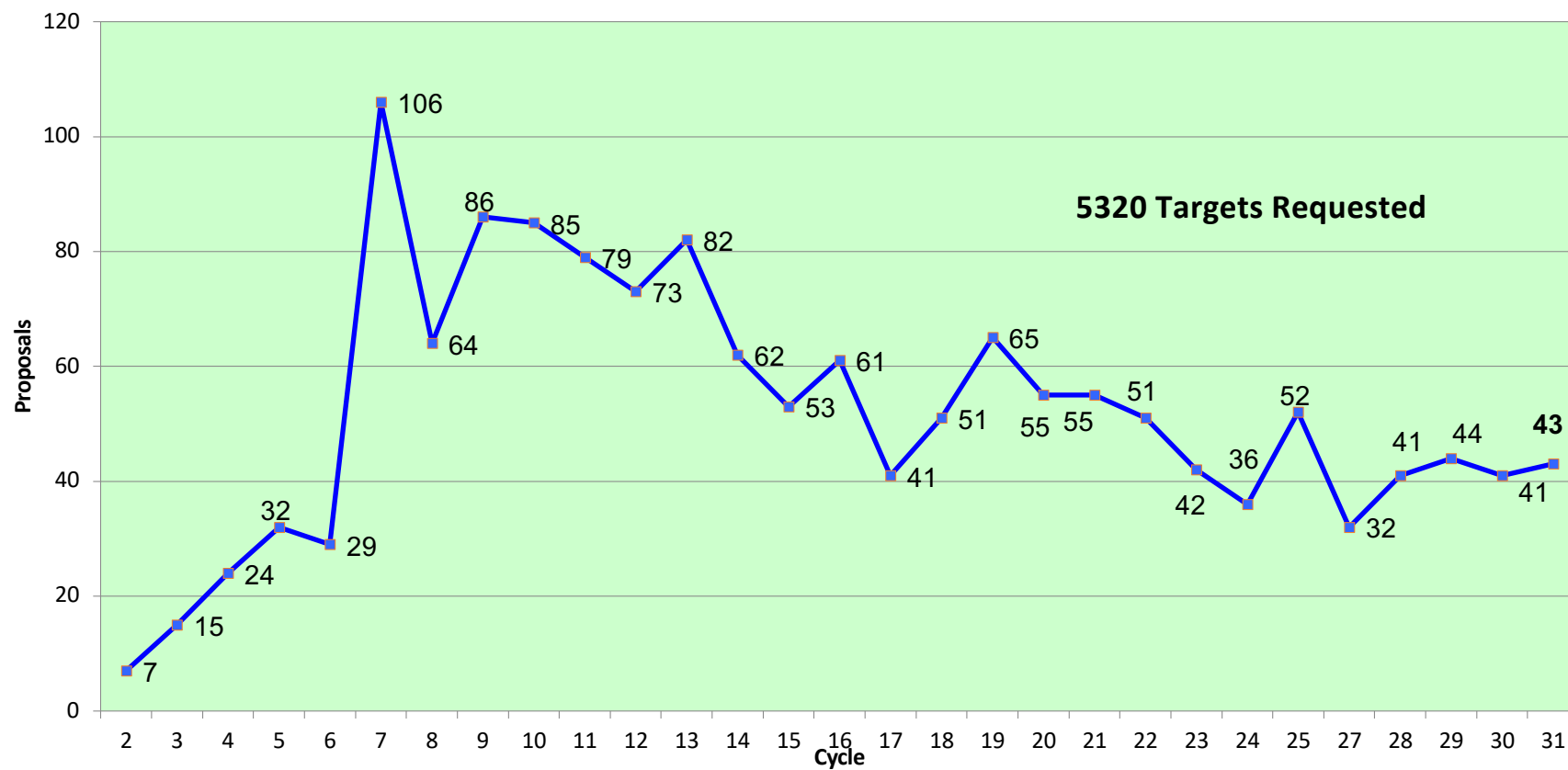


GO Proposal Submissions



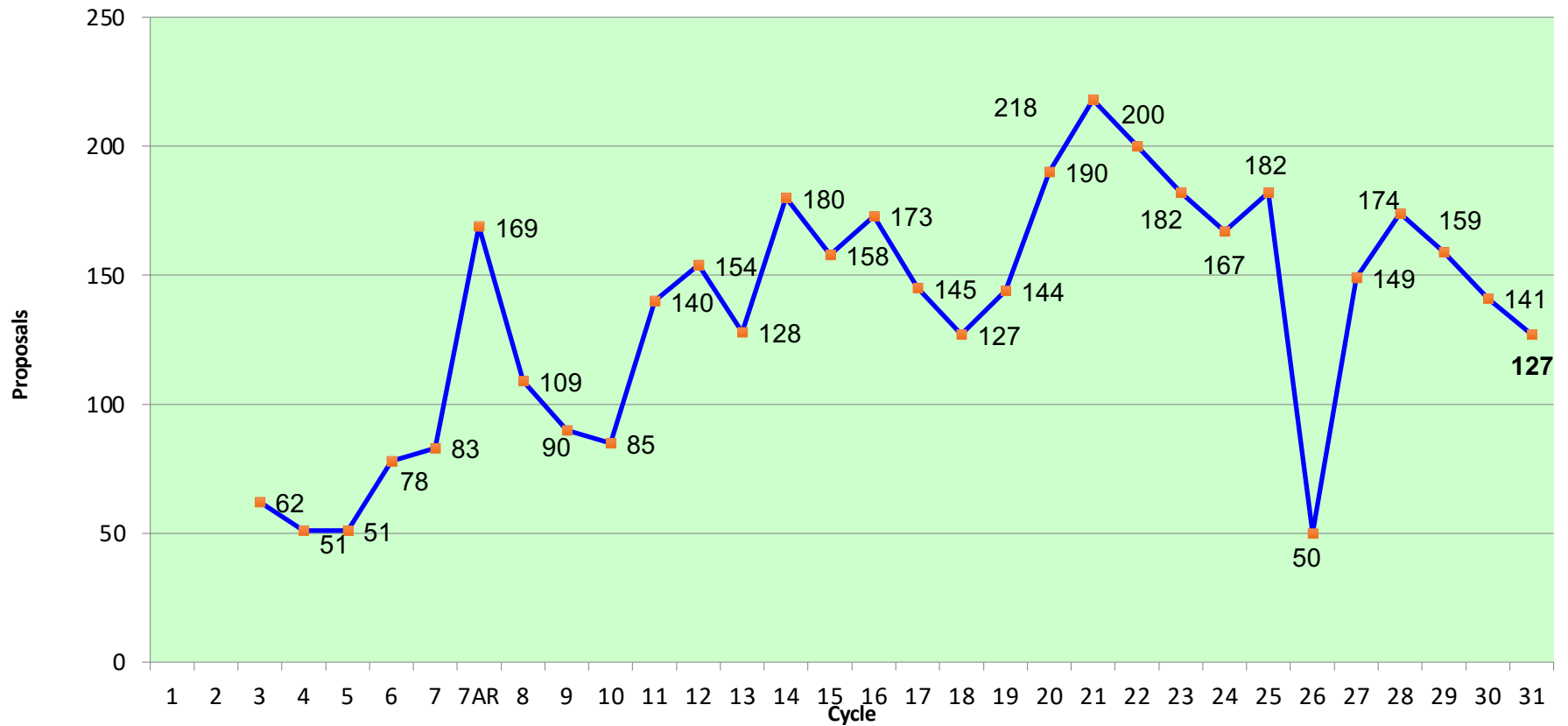


Snapshot Proposal Submissions



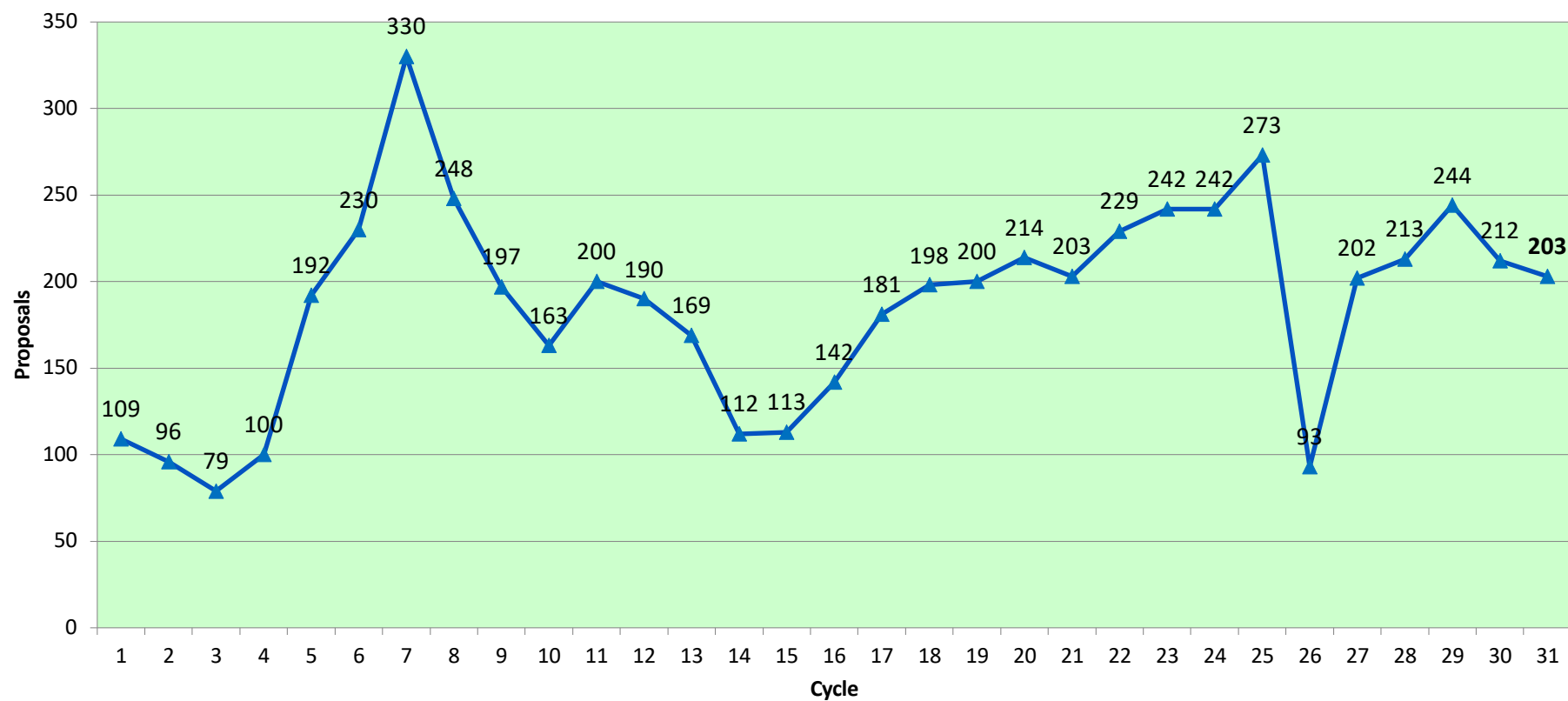


Archival Research Proposal Submissions



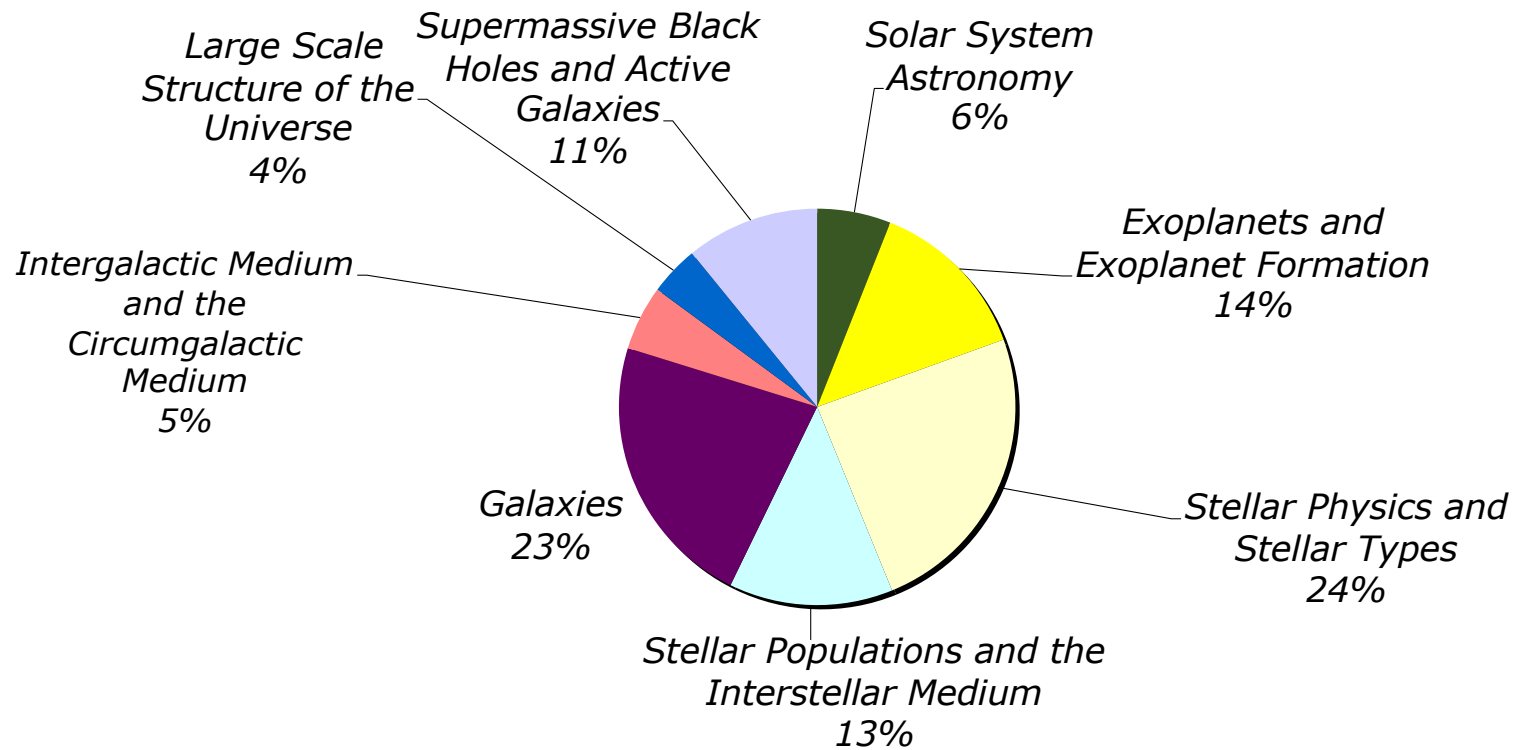


ESA Proposal Submissions





Science Categories for Proposals

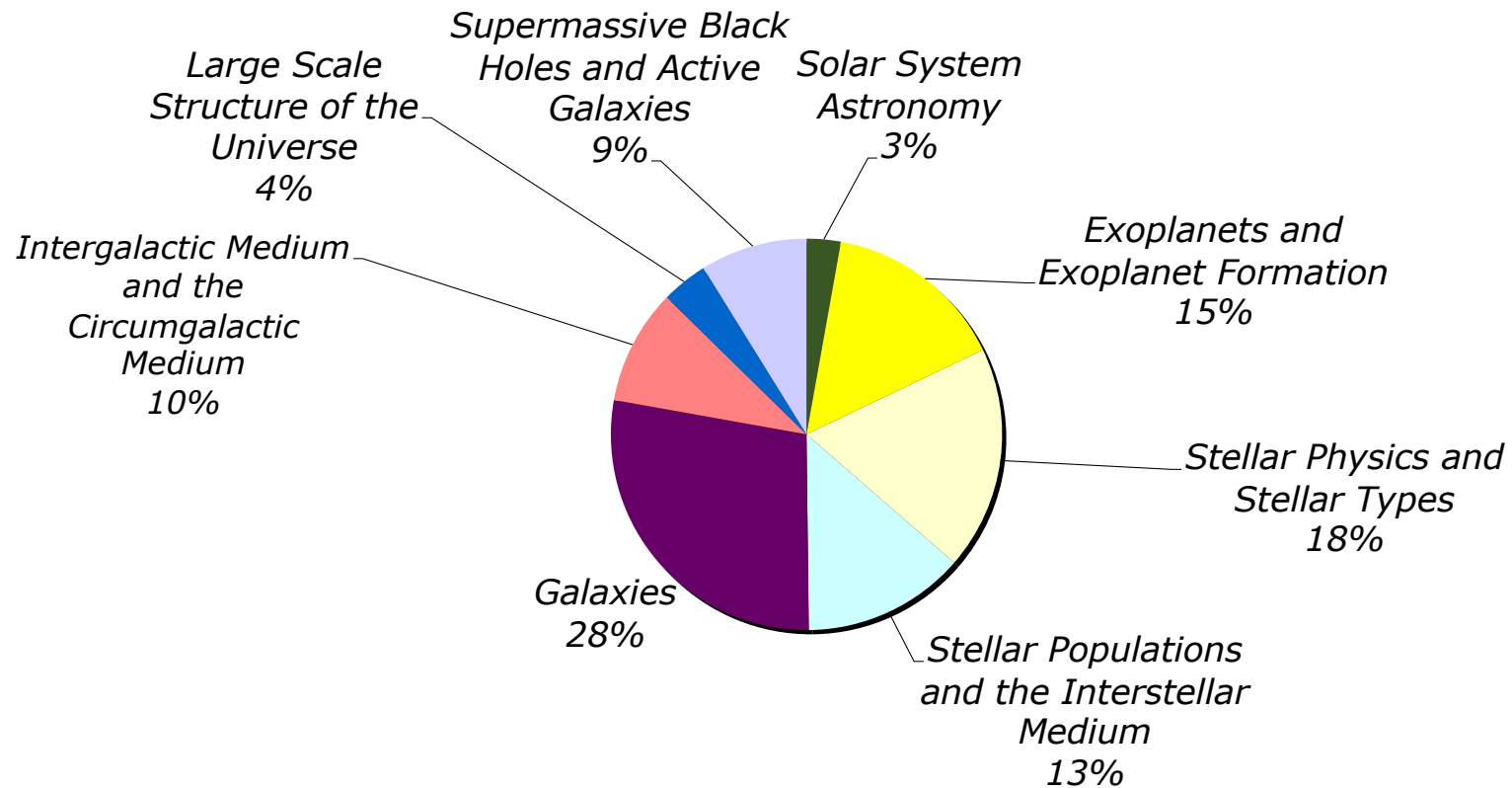




Orbit Information

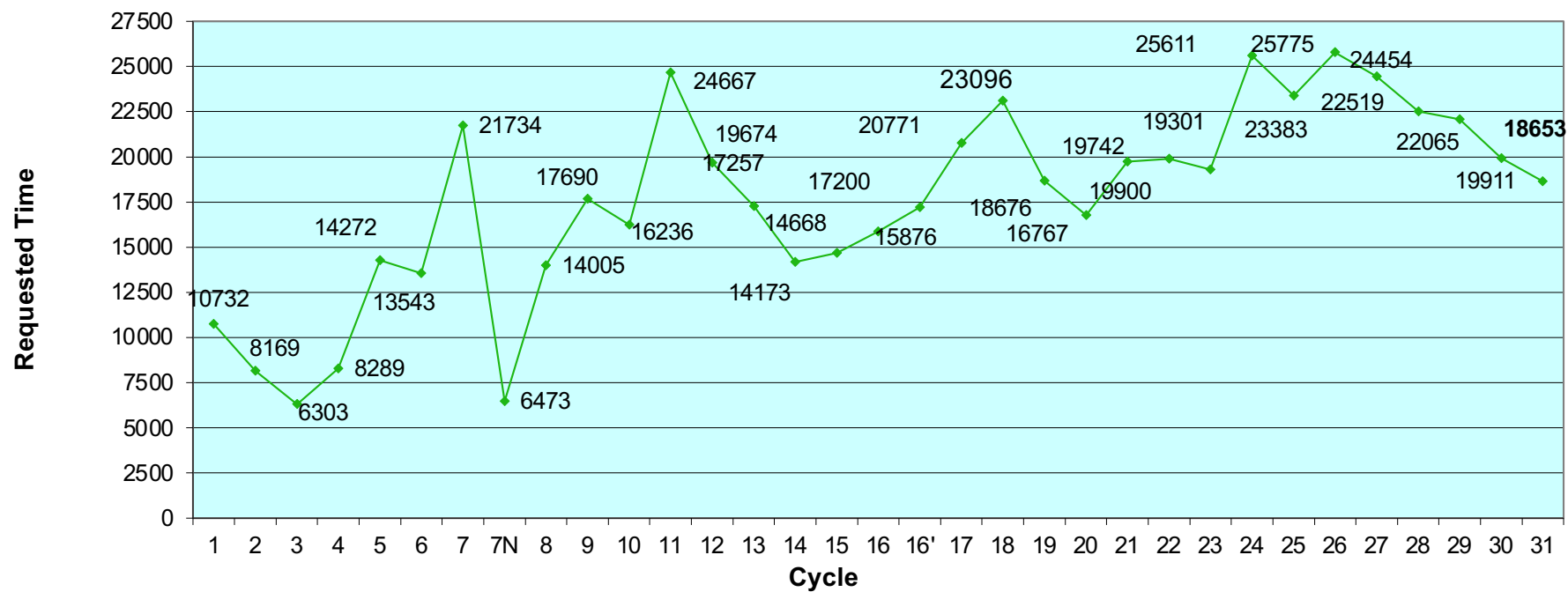


Science Categories for Orbits



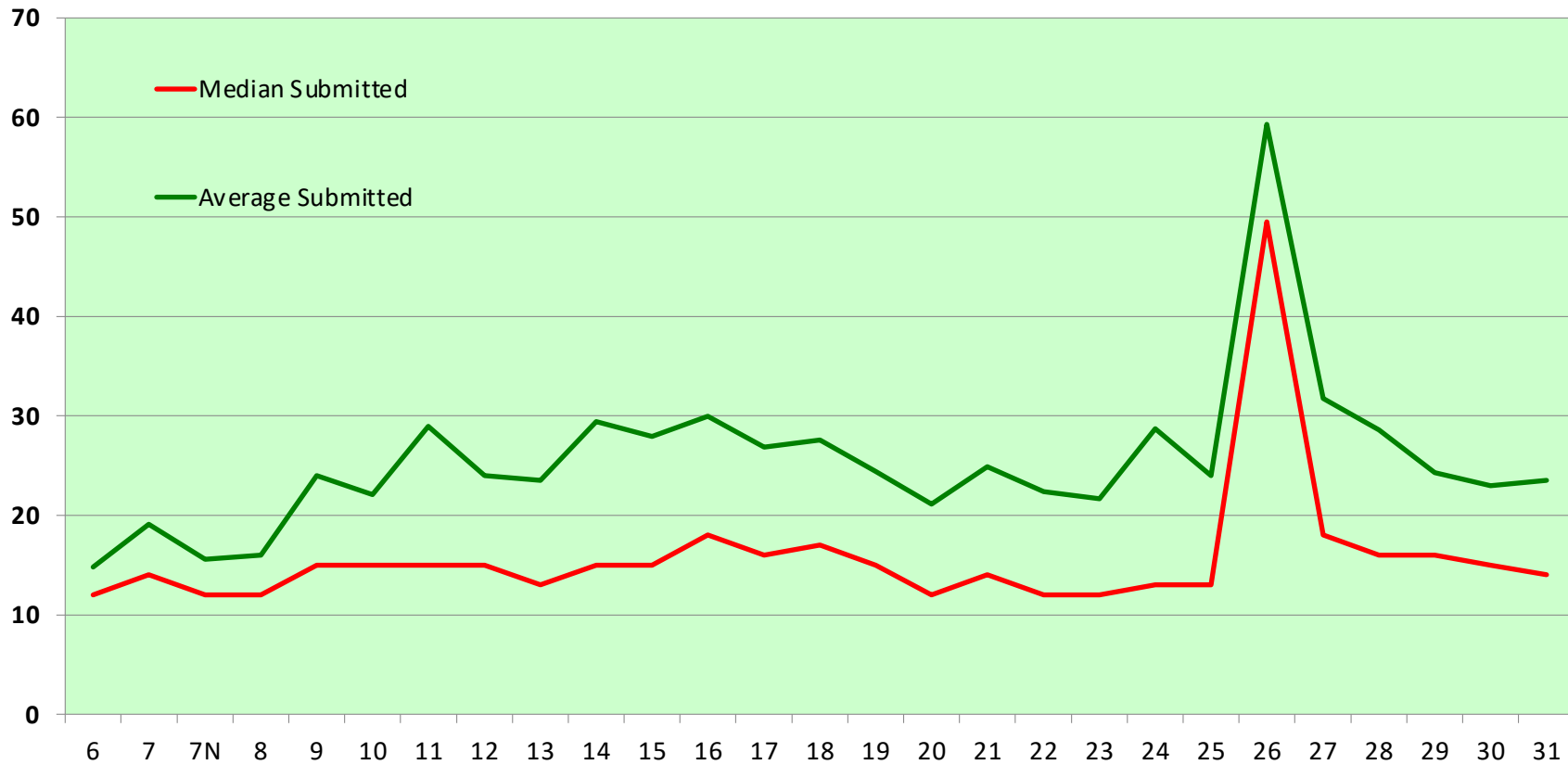


Orbits Requested



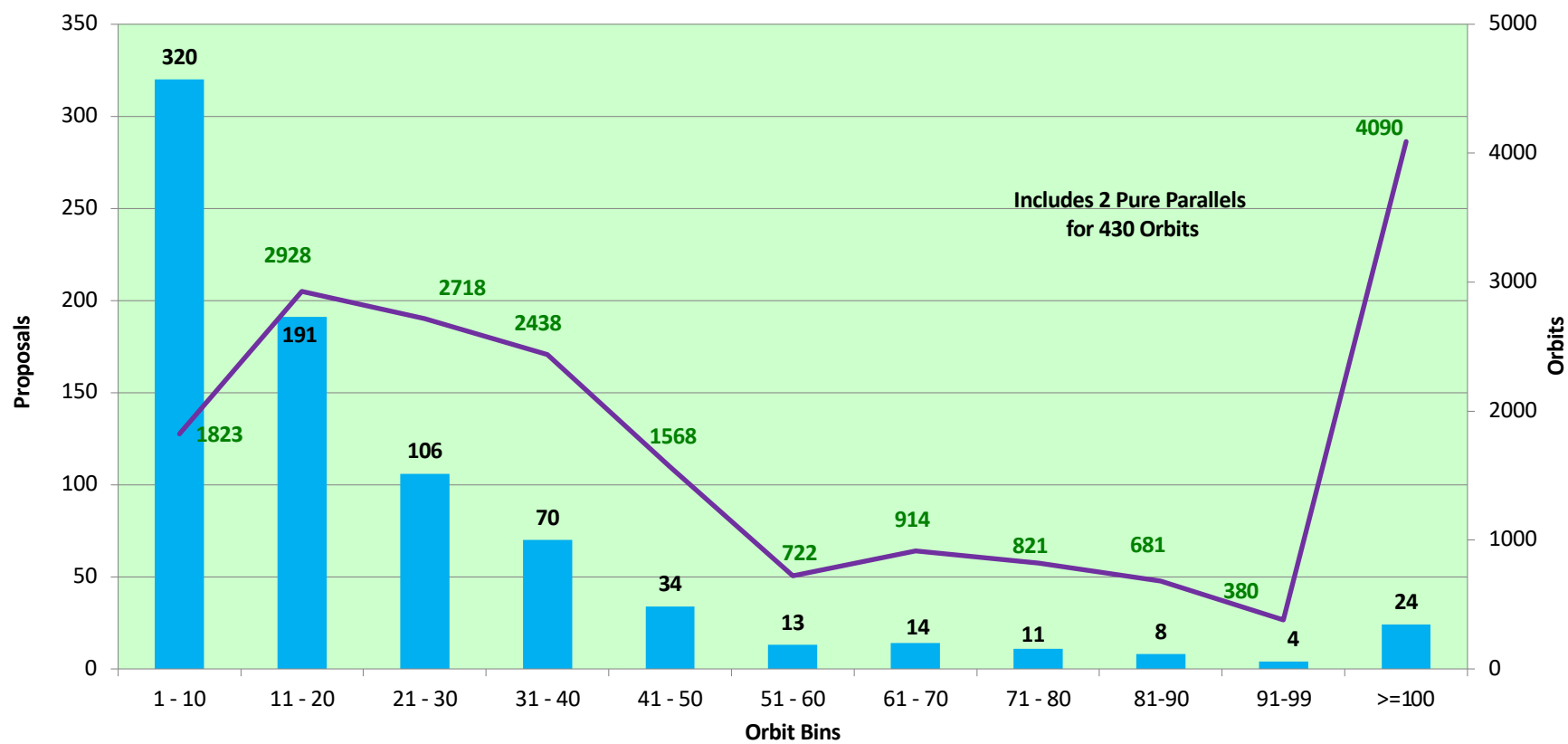


Orbit Size by Cycle



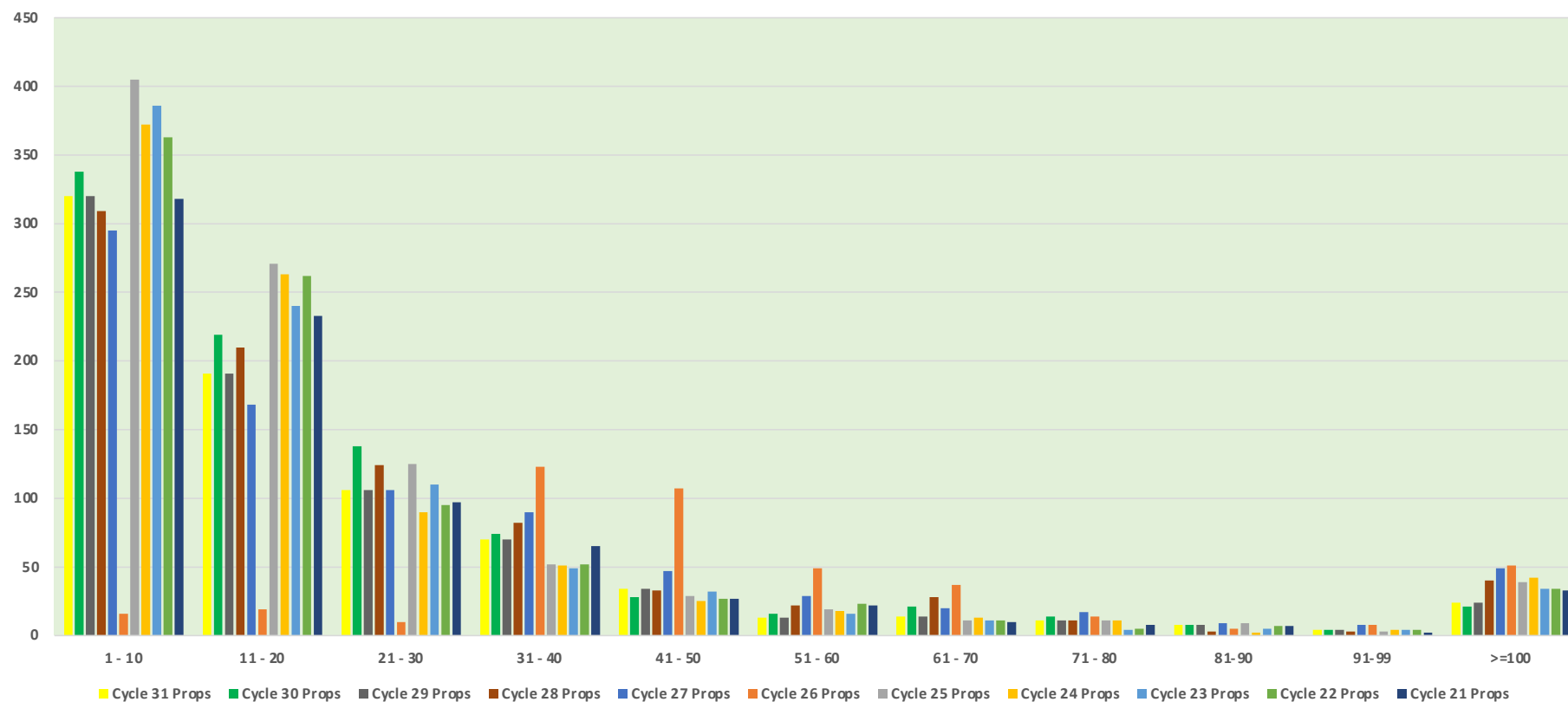


Requested Orbit Bins



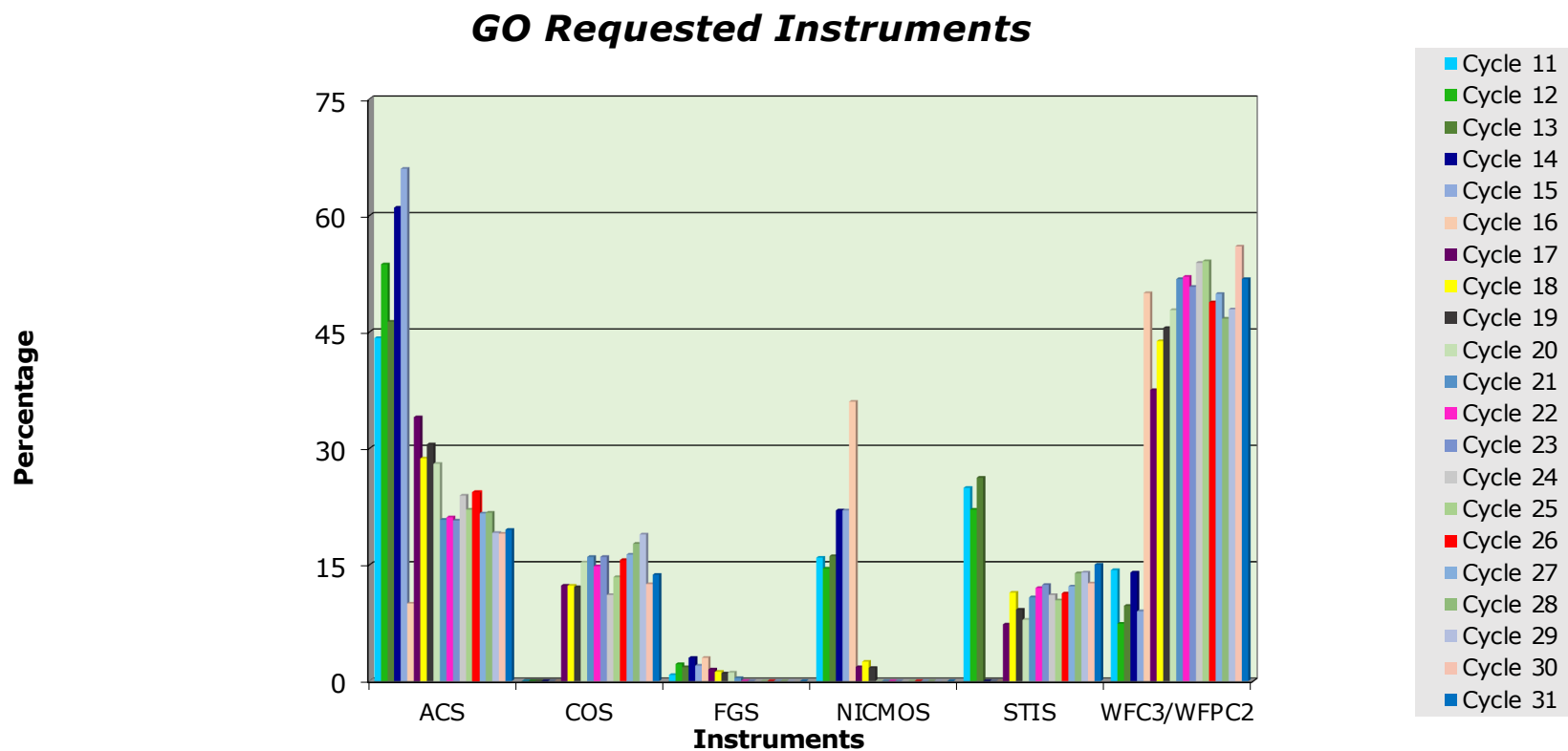


Orbits bins thru the Years





GO Requested Instruments





Instrument Modes

Configuration	Mode	Prime %	Coordinated Parallel %	Total	Prime Usage	Prime + Coordinated Parallel Usage	Pure Parallel Usage	Snap Usage
ACS/SBC	Imaging	1.37%	0.0%	1.2%			0.0%	0.0%
ACS/SBC	Spectroscopy	0.15%	0.0%	0.1%			0.0%	0.0%
ACS/WFC	Imaging	10.62%	56.3%	17.5%			0.0%	11.8%
ACS/WFC	Ramp Filter	0.94%	0.0%	0.8%	13.1%	19.5%	0.0%	0.0%
ACS/WFC	Spectroscopy	0.00%	0.0%	0.0%			0.0%	0.0%
COS/FUV	Spectroscopy	14.35%	0.0%	12.2%			0.0%	10.5%
COS/NUV	Imaging	0.09%	0.0%	0.1%	16.1%	13.7%	0.0%	0.0%
COS/NUV	Spectroscopy	1.64%	0.0%	1.4%			0.0%	0.0%
FGS	POS	0.00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FGS	TRANS	0.00%	0.0%	0.0%			0.0%	0.0%
STIS/CCD	Imaging	1.33%	0.0%	1.1%			0.0%	0.0%
STIS/CCD	Spectroscopy	5.14%	0.0%	4.4%			0.0%	0.0%
STIS/FUV	Imaging	0.07%	0.0%	0.1%	17.6%	15.0%	0.0%	0.0%
STIS/FUV	Spectroscopy	5.19%	0.0%	4.4%			0.0%	2.8%
STIS/NUV	Imaging	0.00%	0.0%	0.0%			0.0%	0.0%
STIS/NUV	Spectroscopy	5.89%	0.0%	5.0%			0.0%	1.9%
WFC3/IR	Imaging	11.10%	10.8%	11.0%			2.3%	29.6%
WFC3/IR	Spectroscopy	3.33%	0.0%	2.8%	53.2%	51.8%	0.0%	0.0%
WFC3/UVIS	Imaging	37.57%	33.0%	36.9%			97.7%	43.5%
WFC3/UVIS	Spectroscopy	1.21%	0.0%	1.0%			0.0%	0.0%



Joint Observatory Requests

Observatory	Proposals	Requested Time	HST Orbits
Chandra	9	648 Ksecs	111
JWST	29	218.63 Hours	721
NOIRLab	16	36.62 Nights	332+400 (PPar)
NRAO	8	158.25 Hours	166
TESS	1	2 Targets	88
XMM	10	701 Ksecs	172



Targets of Opportunity Requests

	Activations
Ultra Disruptive	7
Disruptive	18
Non-Disruptive	46
FlexDay	37
JWST Disruptive Component	2

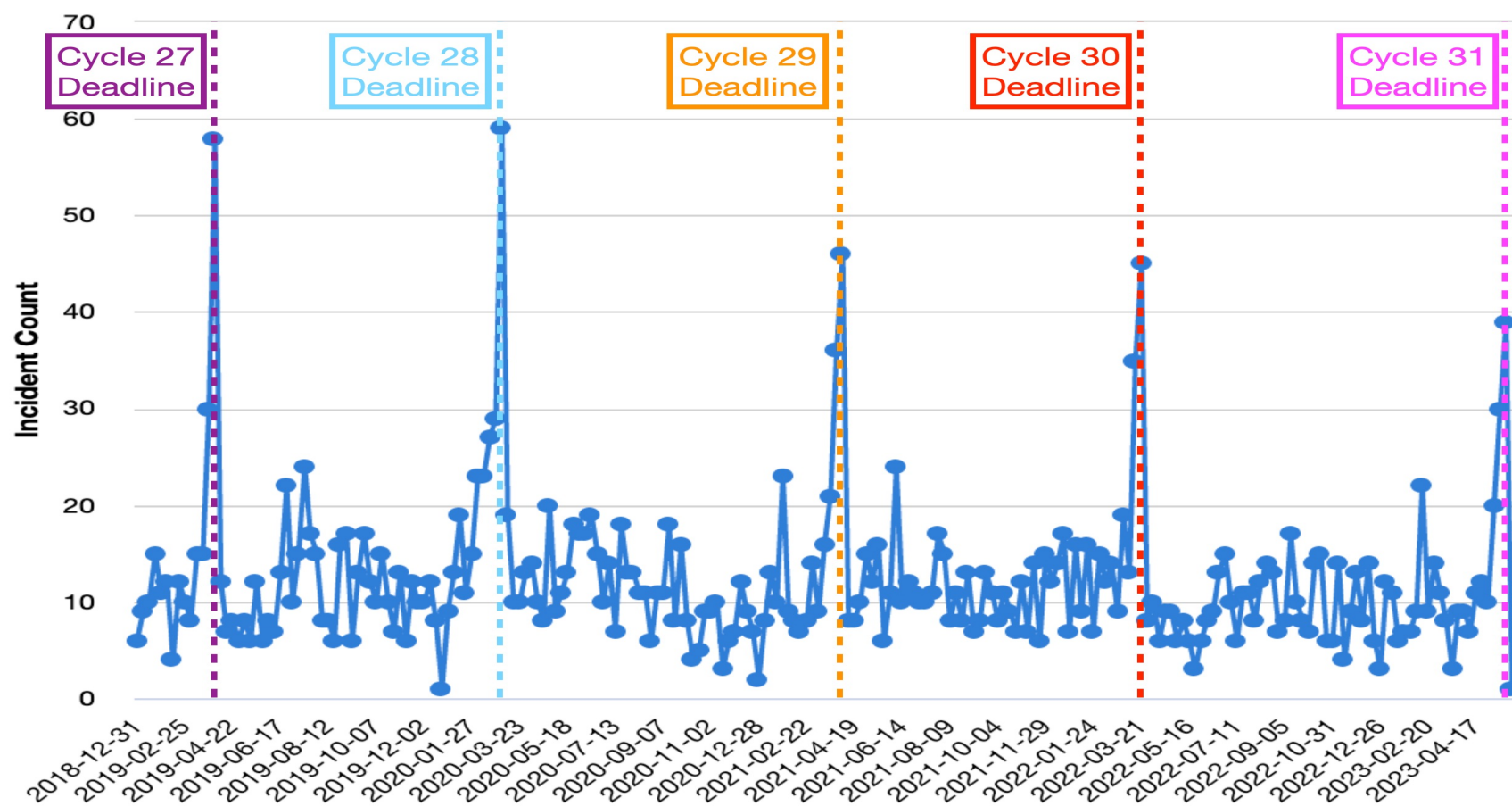


Special Initiatives

Initiative	Proposals	HST Orbits
UV	296 + 40 ARs	8220
Fundamental Physics	16 + 3 ARs	495
Cloud Computing	3	-
Data Science Software	4	-
Calibration	1	8



Help Desk Questions



A deep space photograph of a nebula, likely the Carina Nebula, featuring a complex structure of glowing blue and purple gas clouds and numerous stars. The text "Investigator Demographics" is centered in white, with a thin orange horizontal line below it.

Investigator Demographics



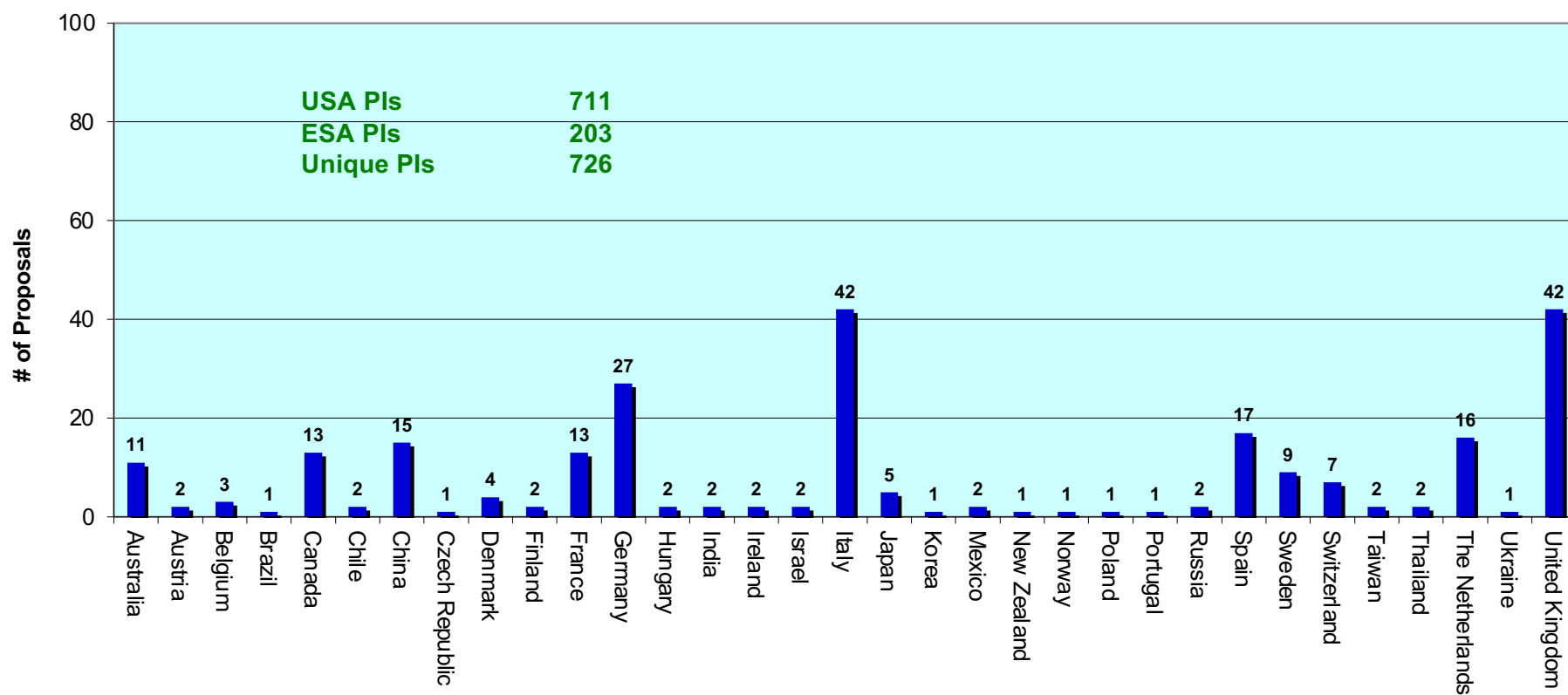
Countries of Investigators

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Country	PI	CoPI	CoI	Country	PI	CoPI	CoI	Country	PI	CoPI	CoI
Argentina			6	Greece			6	Russia	2	1	24
Australia	11	8	147	Hungary	2		6	Slovakia		1	1
Austria	2		17	Iceland			3	Slovenia			2
Belgium	3	1	26	India	2	1	17	South Africa			6
Brazil	1	2	15	Indonesia			1	Spain	17	8	152
Bulgaria			1	Ireland	2		29	Sweden	9	6	92
Canada	13	8	172	Israel	2	3	47	Switzerland	7	2	91
Chile	2	3	89	Italy	42	12	416	Taiwan	2	1	16
China	15	6	102	Japan	5	1	81	Thailand	2		7
Croatia			1	Korea	1		15	The Netherlands	16	2	133
Cyprus			2	Mexico	2	1	26	The Vatican			2
Czech Republic	1		10	Namibia			1	Ukraine	1	1	6
Denmark	4	1	46	Nepal			1	United Arab Emirates			5
Ecuador			1	New Zealand	1		6	United Kingdom	42	13	445
Finland	2		13	Norway	1		5	Vietnam			1
France	13	8	170	Poland	1		8	United States	711	221	4263
Germany	27	14	330	Portugal	1	2	11				

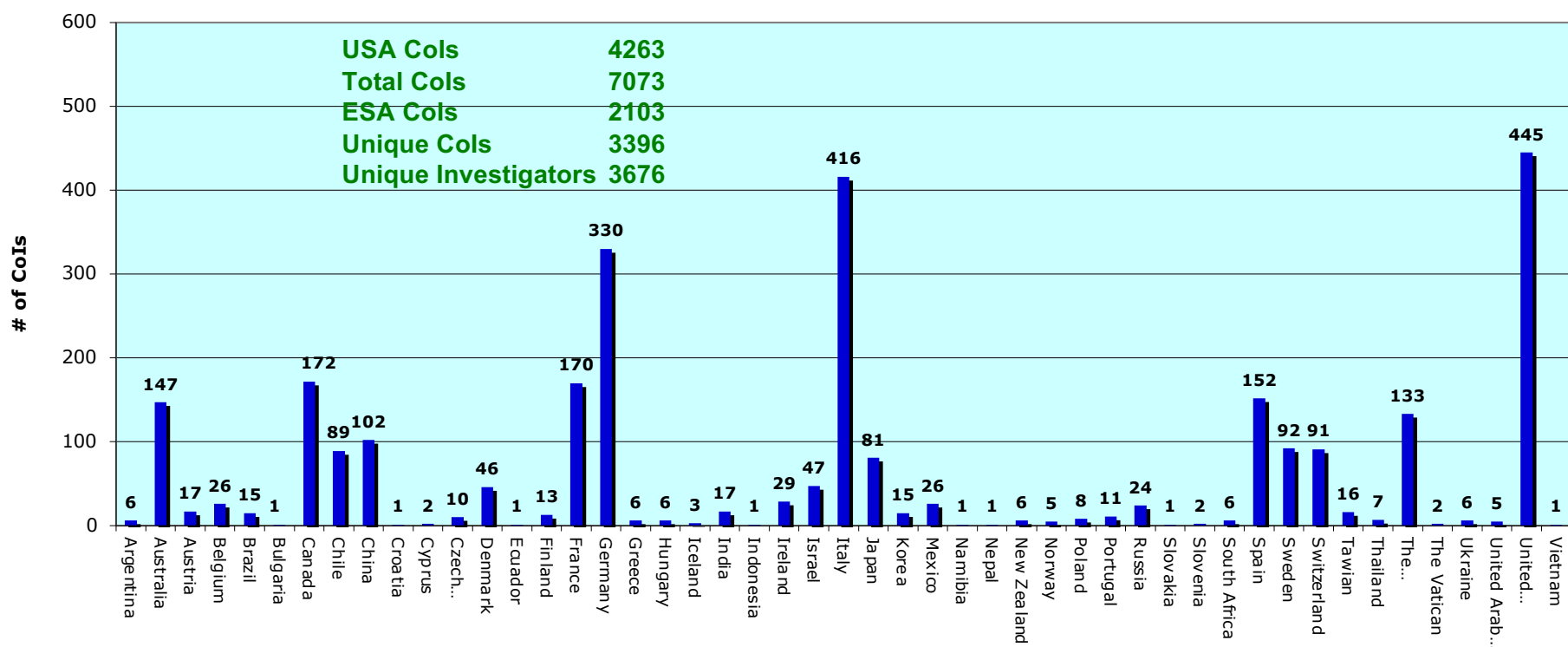


PI Countries





Co-Investigator Countries





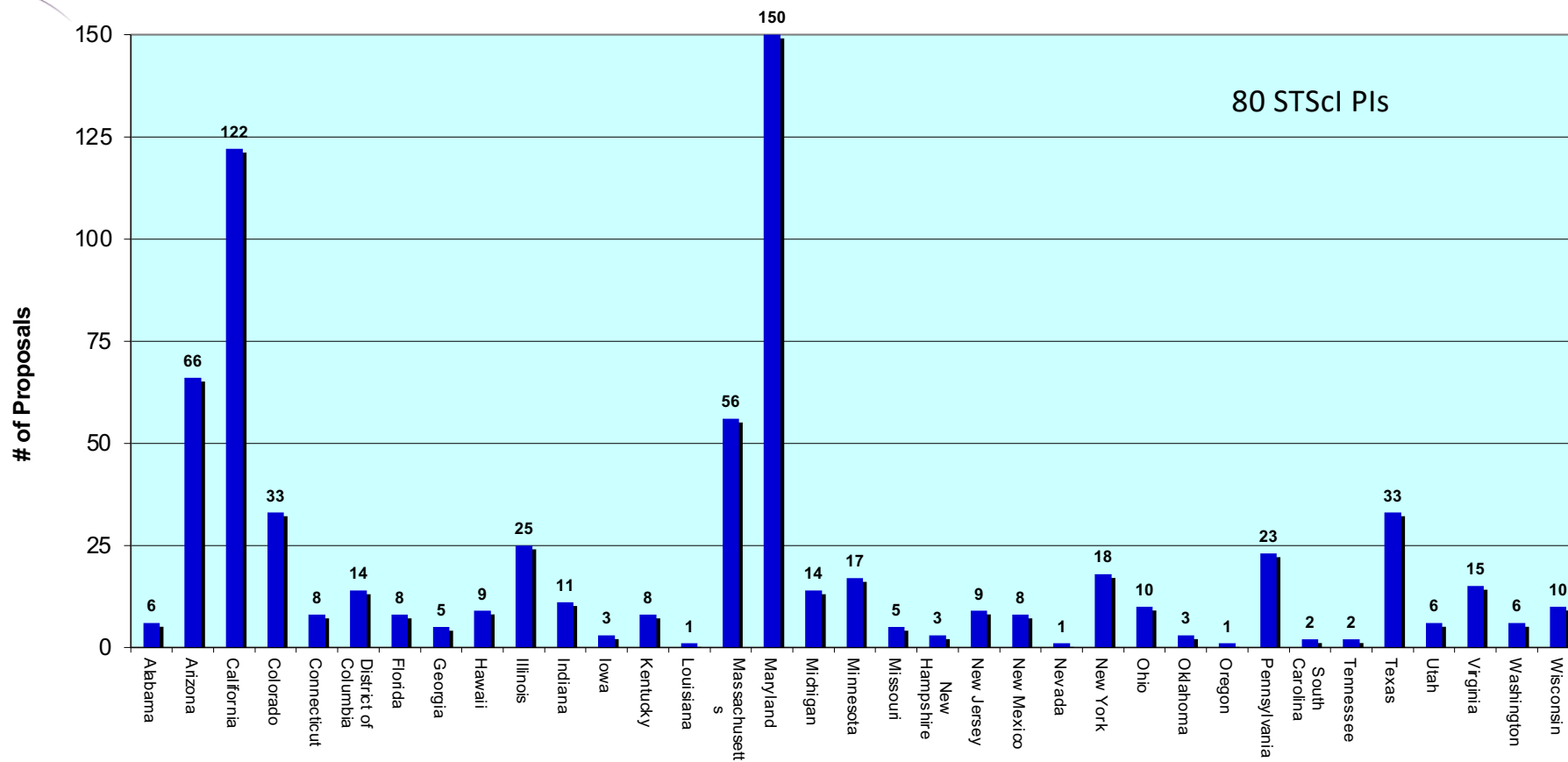
US States and Territories of Investigators

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US State	PI	CoPI	Col	US State	Col	CoPI	Col	US State	PI	CoPI	Col
Alabama	6	2	38	Maine			1	Ohio	10	2	80
Arizona	66	27	359	Maryland	150	46	1072	Oklahoma	3		4
California	122	30	724	Massachusetts	56	15	285	Oregon	1		
Colorado	33	4	85	Michigan	14	6	123	Pennsylvania	23	5	107
Connecticut	8	3	46	Minnesota	17	8	97	Rhode Island		1	2
Delaware		7	4	Mississippi			1	South Carolina	2	2	12
District of Columbia	14	1	127	Missouri	5		12	Tennessee	2	2	11
Florida	8	5	63	Montana			1	Texas	33	13	179
Georgia	5	2	24	Nebraska			2	Utah	6	1	37
Hawaii	9	2	56	Nevada			3	Vermont			2
Illinois	25	15	143	New Hampshire	3	2	17	Virgin Islands			1
Indiana	11	5	66	New Jersey	9	3	87	Virginia	15	2	98
Iowa	3		14	New Mexico	8		37	Washington	6		43
Kansas			8	Nevada	1			West Virginia			3
Kentucky	8	1	10	New York	18	6	116	Wisconsin	10	1	31
Louisiana	1		6	North Carolina			19	Wyoming		2	7

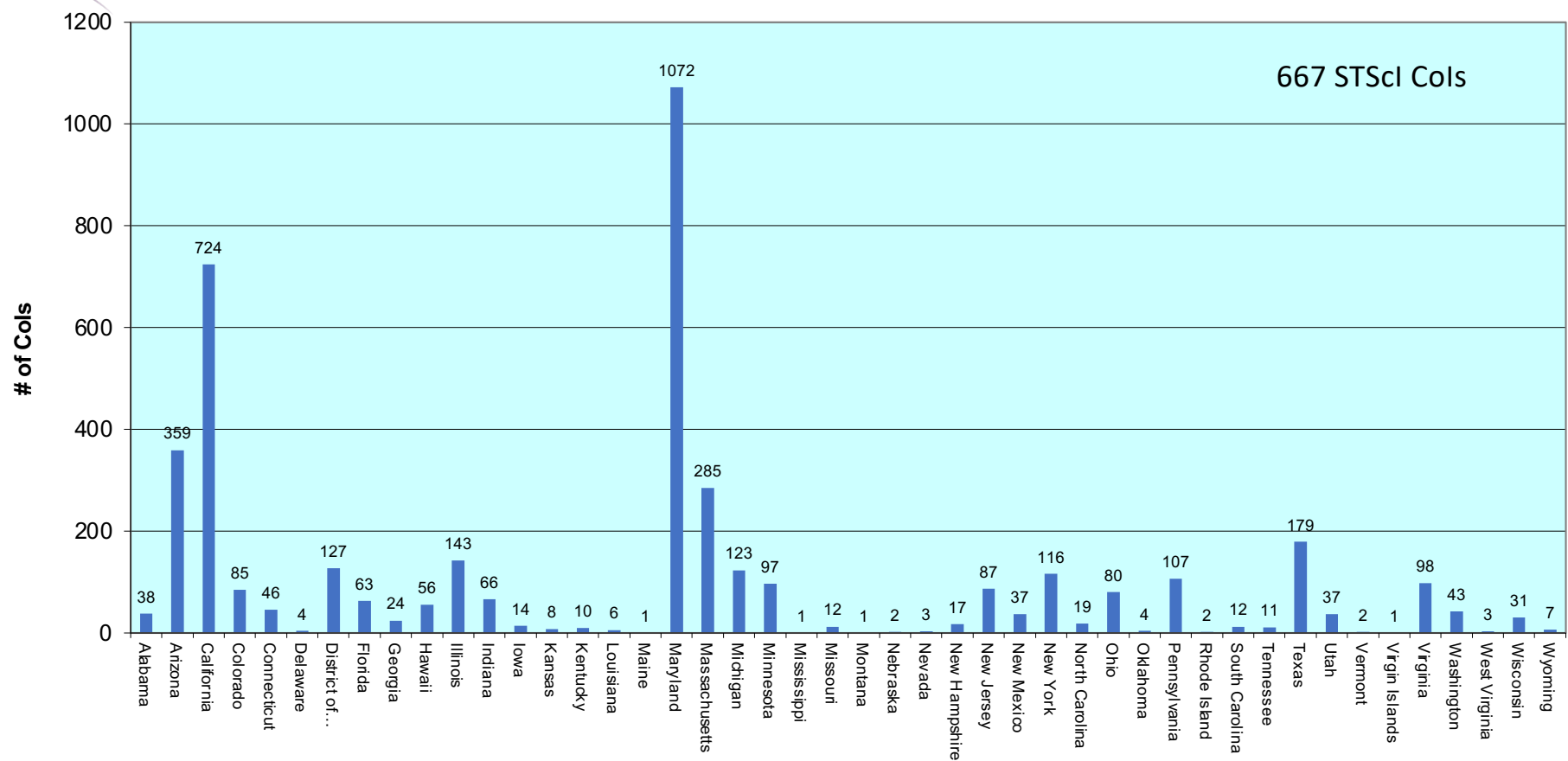


PI States and Territories



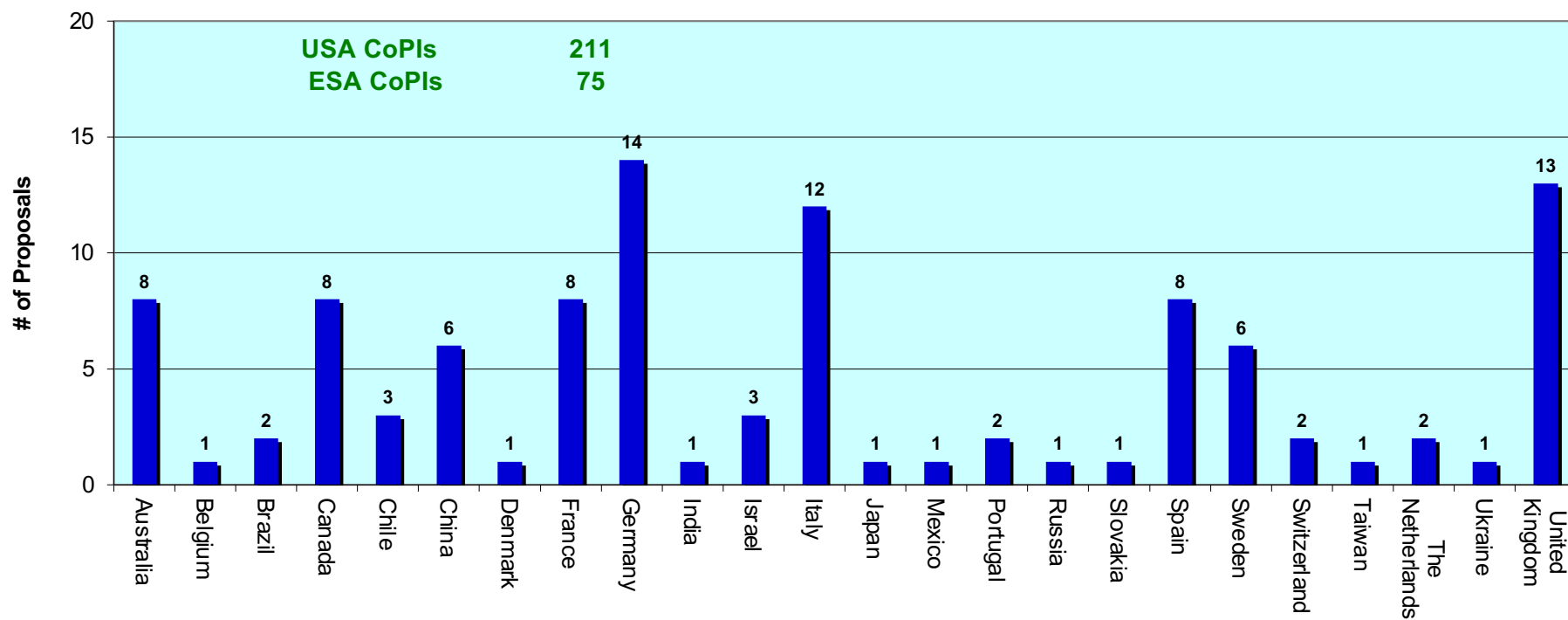


Co-Investigator US States and Territories



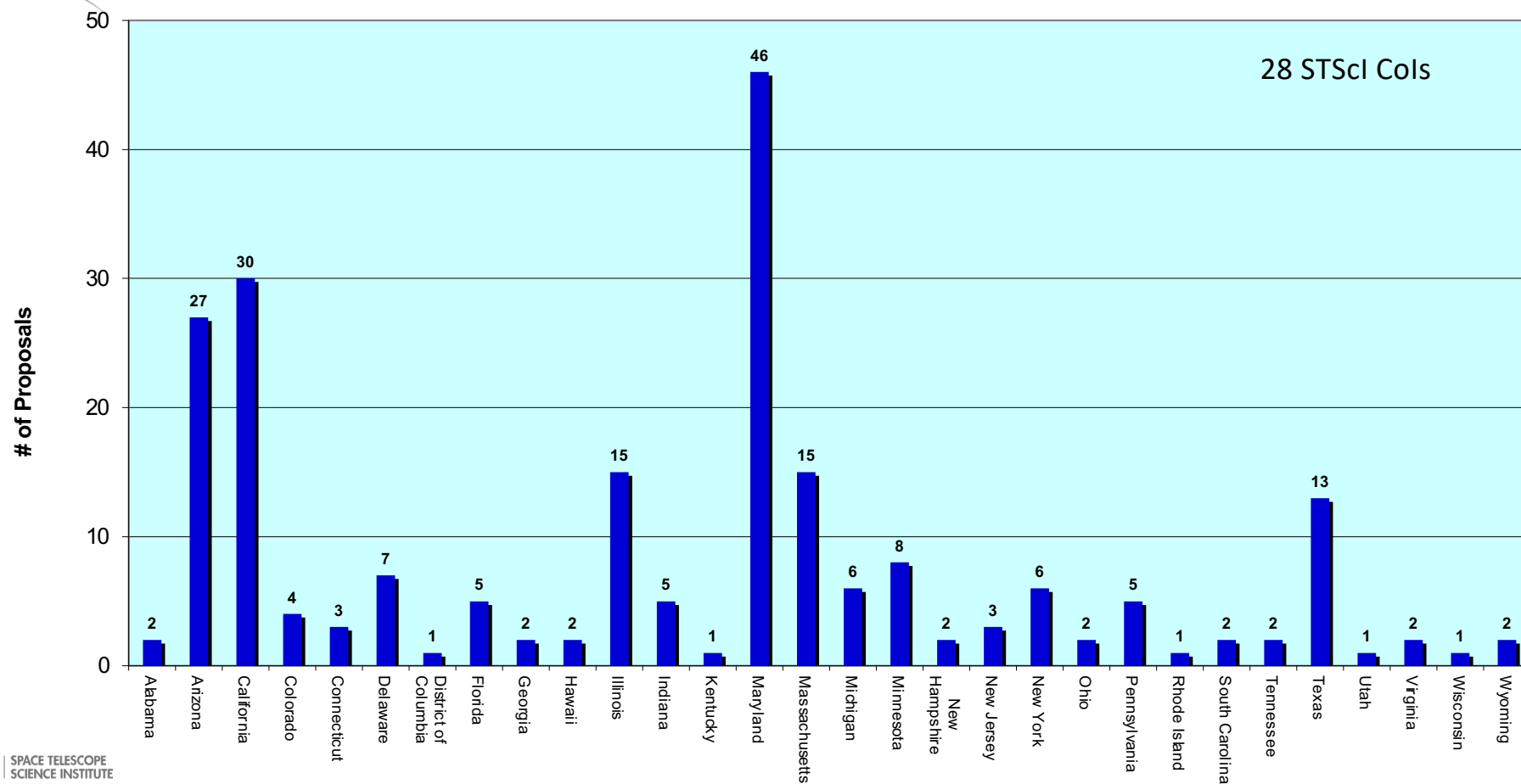


CoPIs by Country





CoPIs US States and Territories





Demographics

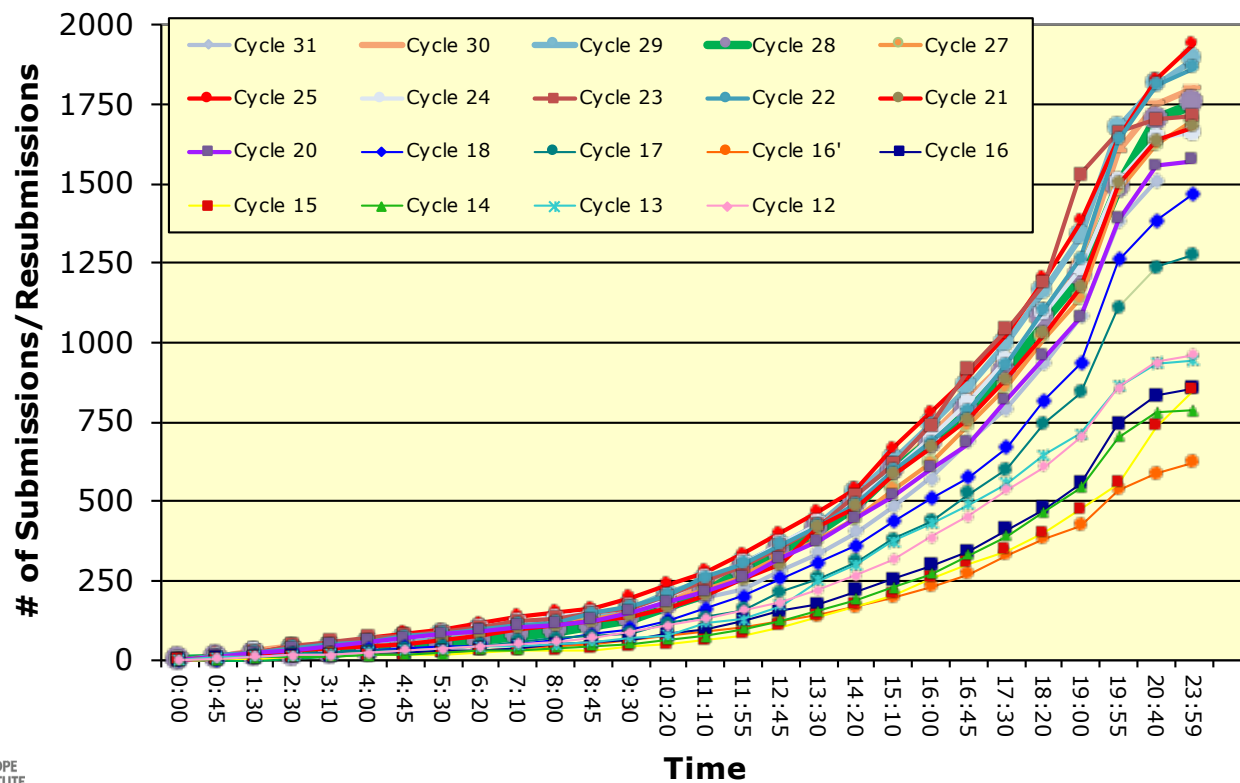
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	Proposals
PIs	965
Unique PIs	726
Unique PI Institutions	285
Countries	34
US States and Territories	35
Cols	7,073
Unique Cols	3,396
Total CoPIs	327
Total Investigators	8,365
Unique Investigators	3,676
Unique Institutions	747
ESA PIs	203
ESA Cols	2,103
ESA CoPIs	75
Total Countries	51
Total US States and Territories	47



Some things never change

Proposal Submissions/Resubmissions on Day of Deadline



**THERE WILL COME A DAY WHEN
CHERRY COKE ZERO IS NOT NEEDED**



BUT IT IS NOT THIS DAY!

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