



**STScI** | SPACE TELESCOPE  
SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

# HST Cycle 32 Submission Statistics

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on behalf of the STScI Science Policies Group

April 5, 2024



# Cycle 32 Review Schedule

Date	Milestone
March 26, 2024	Cycle 32 Proposal Deadline
April 9, 2024	STScI releases proposals to panelists for review
Mid-May, 2024	Orientation meeting for Panel Chairs
April 10, 2024	Orientation meeting for Discussion panelists
April 11, 2024	Orientation meeting for External panelists
May 14, 2024	Deadline for Discussion panelists to submit preliminary grades for their assigned proposals
May 14, 2024	Deadline for External panelists to submit grades and comments for their assigned proposals
May 14, 2024	Deadline for External Expert Reviewers to submit their reviews of EC proposals
May 15, 2024	STScI sends each Discussion panelist the list of proposals to be discussed by their panel
May 17, 2024	Deadline for EC to submit preliminary grades for Large, Treasury, MCT and AR Legacy proposals
May 20, 2024	STScI releases list of proposals to be discussed during the EC meeting
May 28 – 31, 2024	Discussion panels meet
June 3 – 5, 2024	Executive Committee meets
TBD	Deadline for Panel Chairs to submit final consensus reports
Mid-June, 2024	STScI releases the Cycle 32 Science Program



## Summary

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- The HST Cycle 32 Phase I deadline was on March 26, 2024
  - A total of **935 submissions** were received by this date
  - ~9% smaller than the Cycle 17-31 Average (1033), ~30 less than Cycle 31
- The 935 complete proposals include
  - 206 proposal led by ESA PIs (22%)
  - 8017 Investigators
  - 3585 Unique investigators (PI, co-PI & co-I)
- Representation from
  - 50 Countries (**New Col Countries Estonia, Colombia, Venezuela, Singapore**)
  - 44 US states + DC
- STScI Representation
  - 68 PIs (7.3%); 23 CoPIs (8.4%), and 520 CoIs (7.6%)
- TAC meeting is scheduled for May 28 – 31 & June 3 – 5 , 2024 (**Executive Committee**)



# Proposals

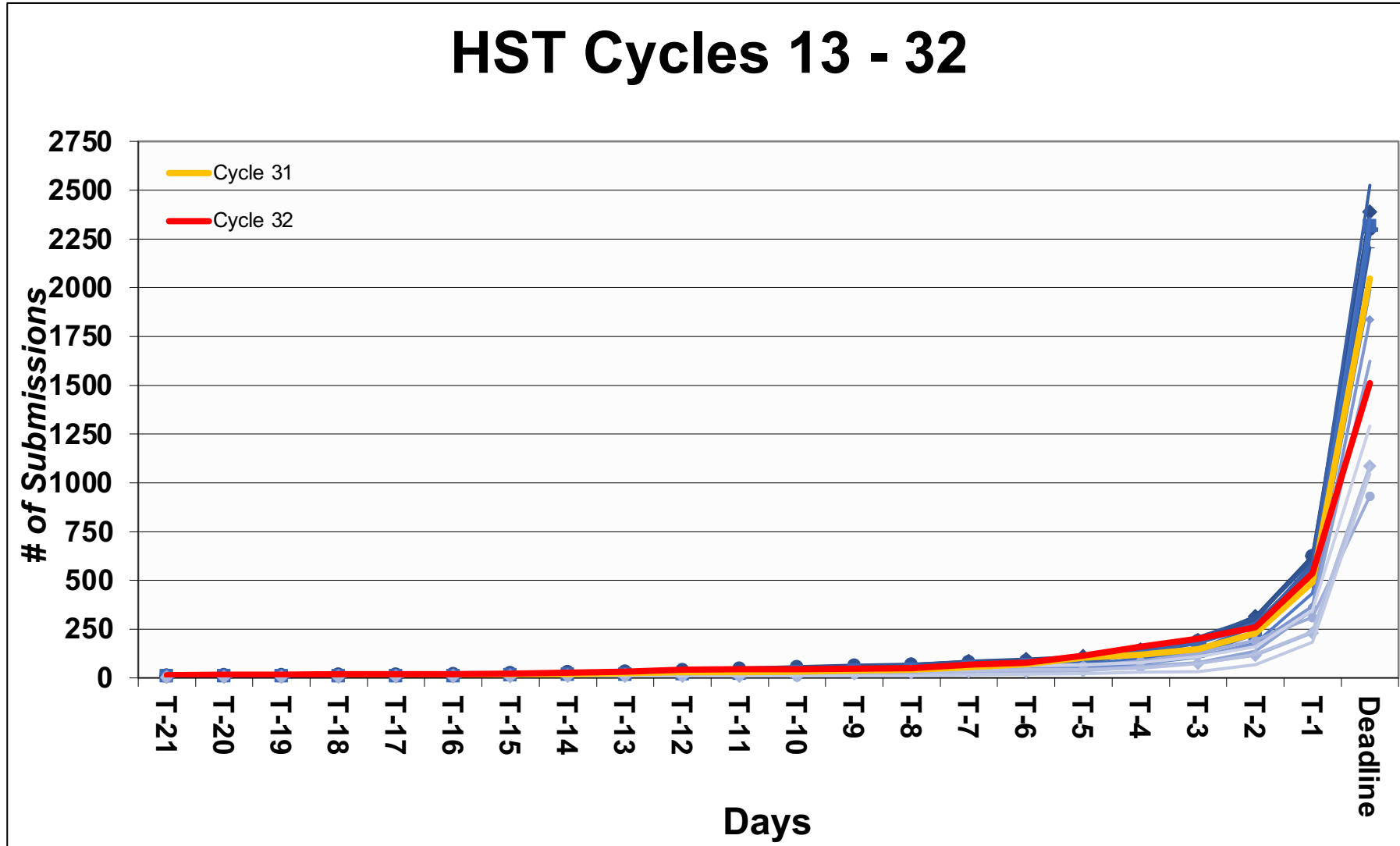
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- 771 GO proposals for 20905 Orbits (~6.5 - 1 oversubscription), including
    - 618 Small for 7581 Orbits
    - 111 Medium for 5700 Orbits
    - 42 Large for 7624 Orbits
    - 16 Treasury for 3776 Orbits
    - 200 ESA for 4734 Orbits
    - 2 Calibration for 23 Orbits (sent to INS for review)
    - 0 Pure Parallel proposals
  - 33 Snapshot proposals requesting 4737 targets
  - 131 Archival Research
    - 73 Regular
    - 42 Theory
    - 19 Legacy
    - 2 Cloud Computing
    - 8 Data Science Software
- (Some proposals are in multiple categories)





# Just another Deadline

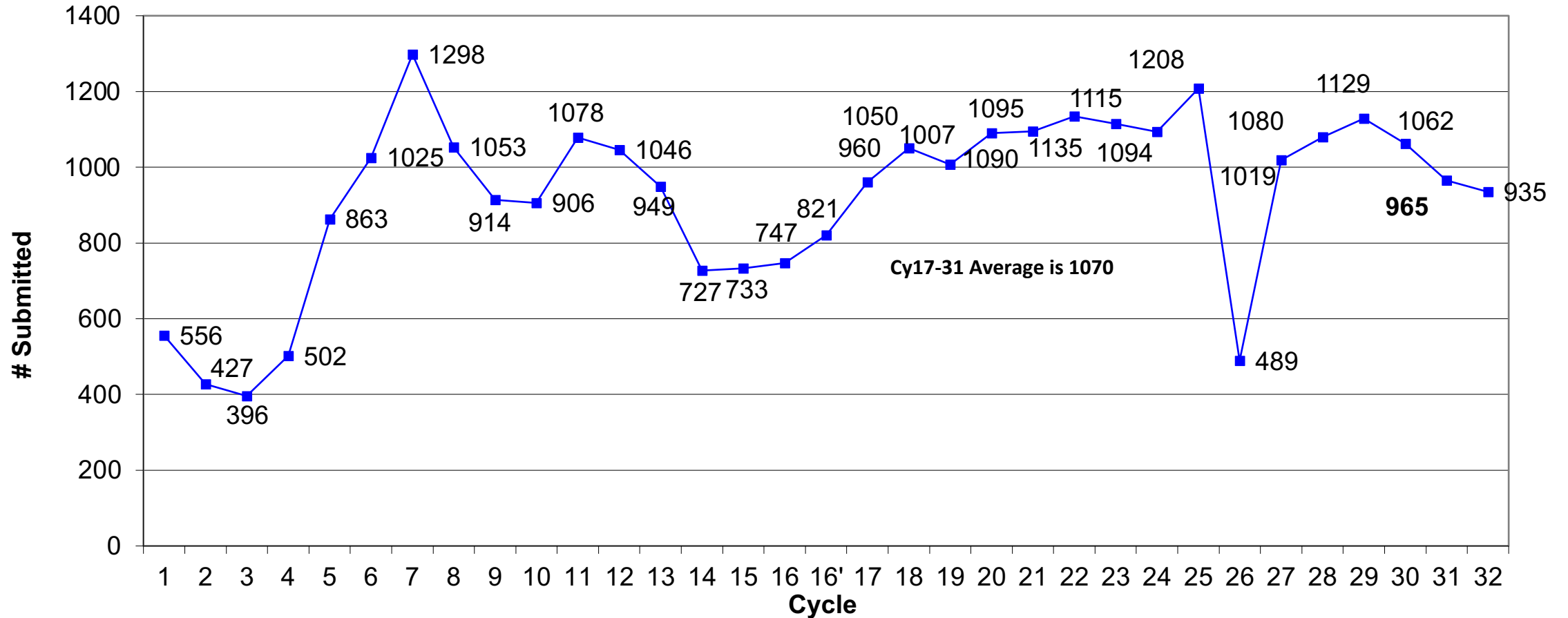


The background of the slide is a deep blue and black space filled with numerous stars of varying sizes and colors, including bright blue and white ones. A large, diffuse nebula with wispy, ethereal structures in shades of blue and purple is visible on the left side. A thin, horizontal orange line spans the width of the slide, positioned just below the main text.

# Proposal Statistics

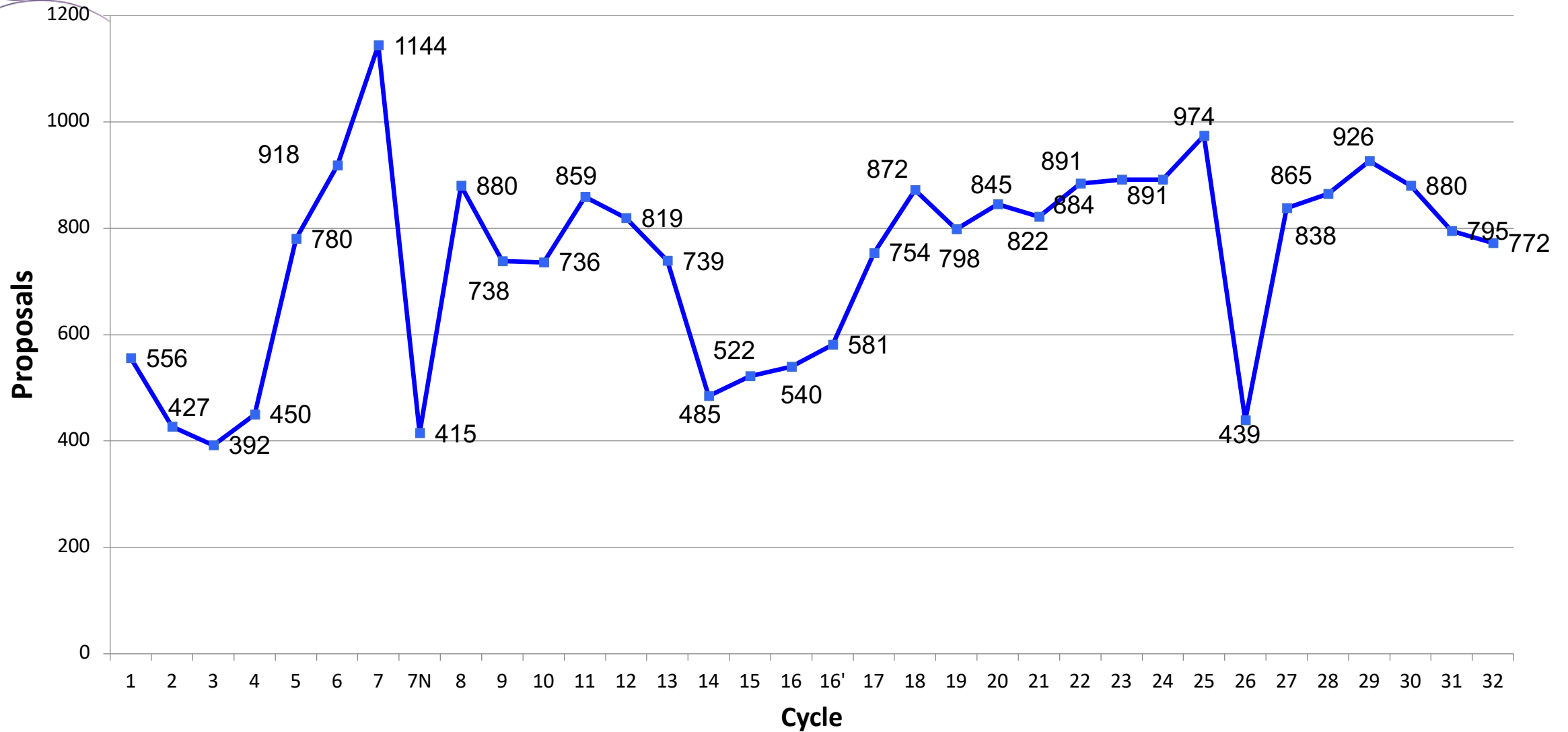


# HST Proposal Submissions





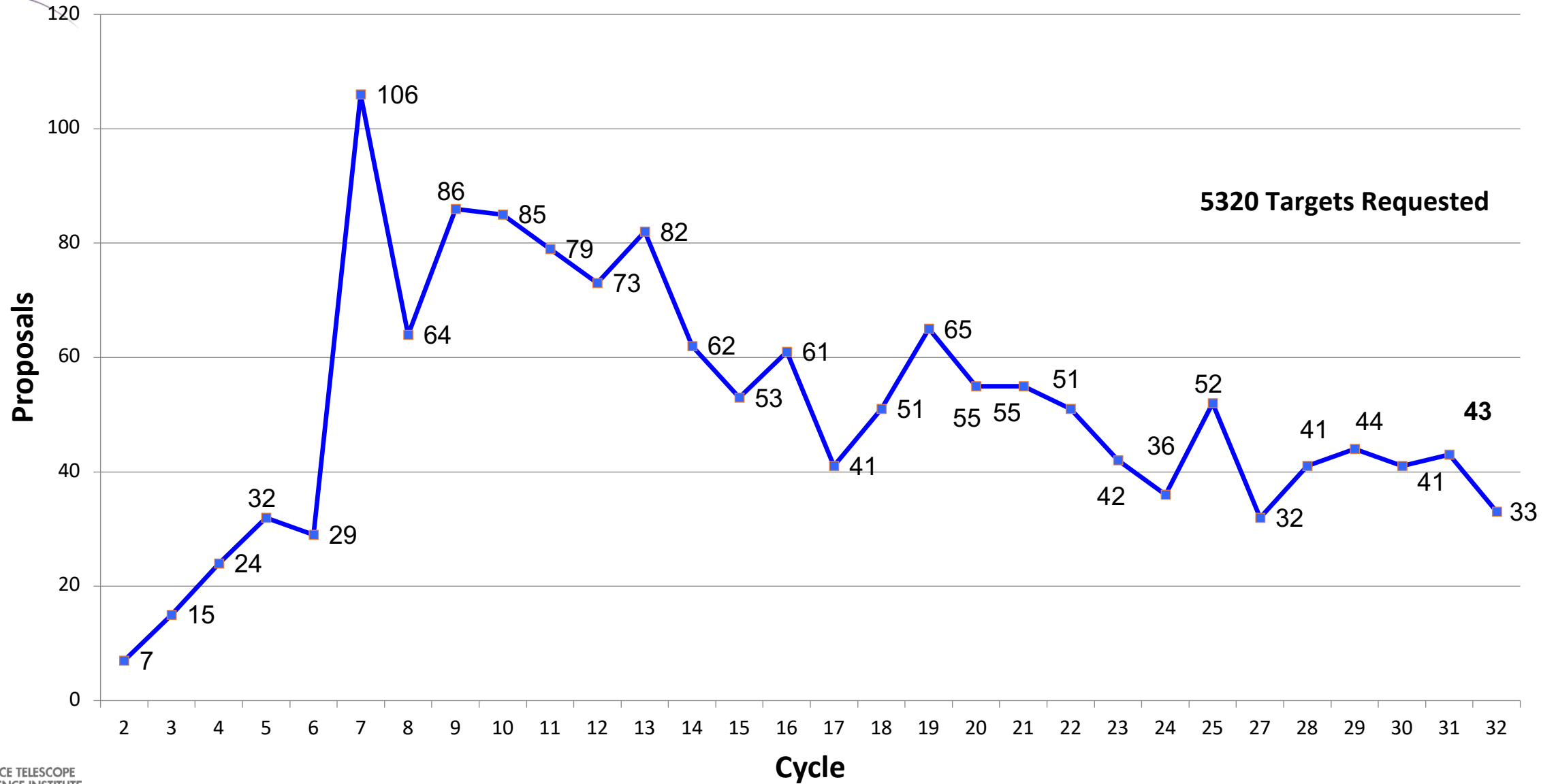
# GO Proposal Submissions





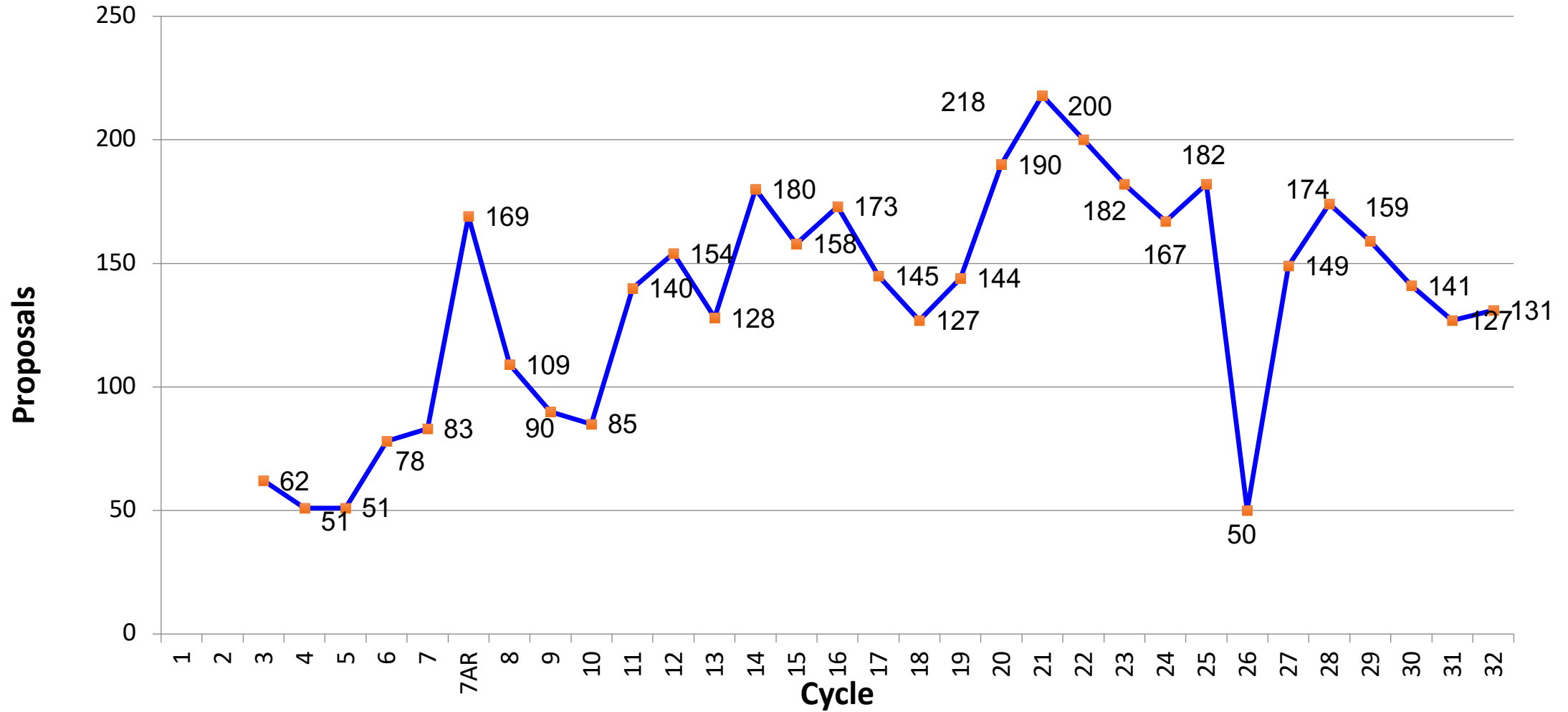


# Snapshot Proposal Submissions



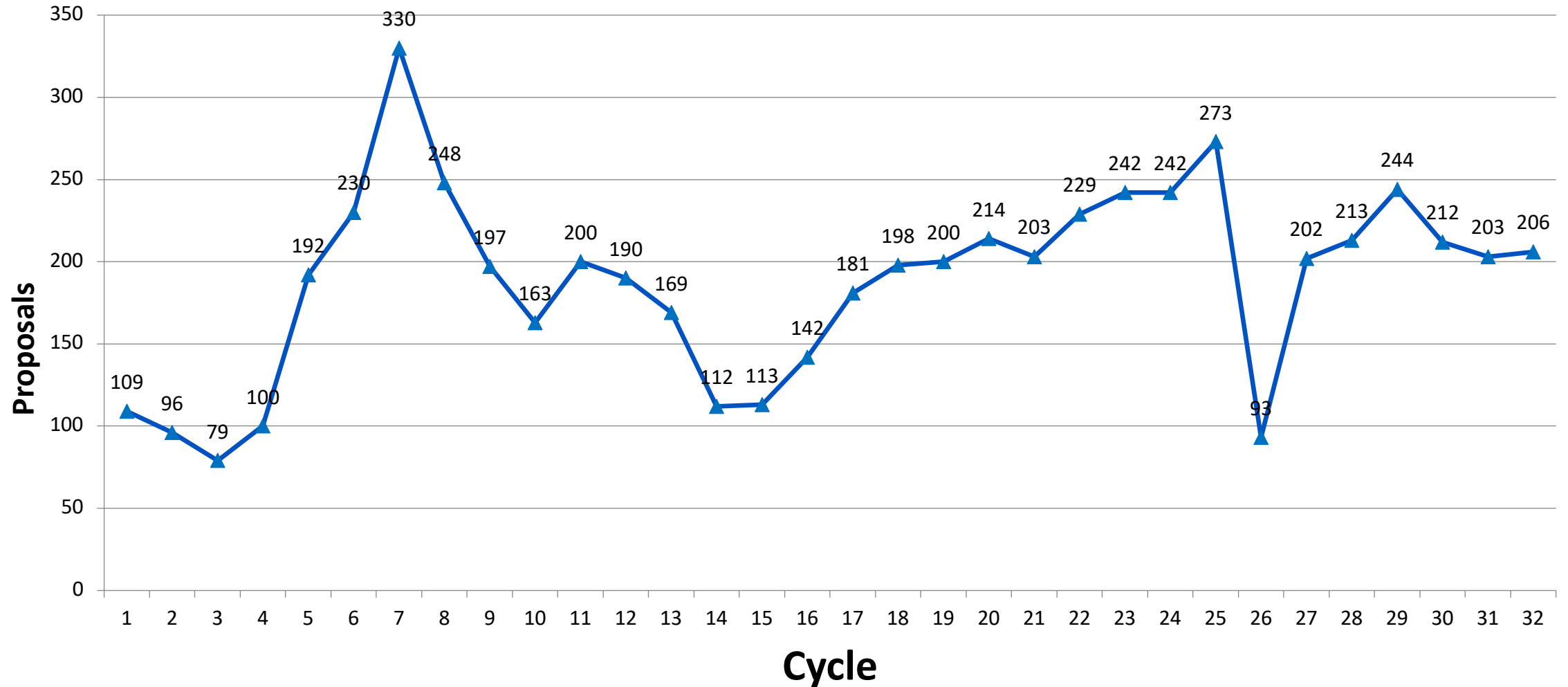


# Archival Research Proposal Submissions



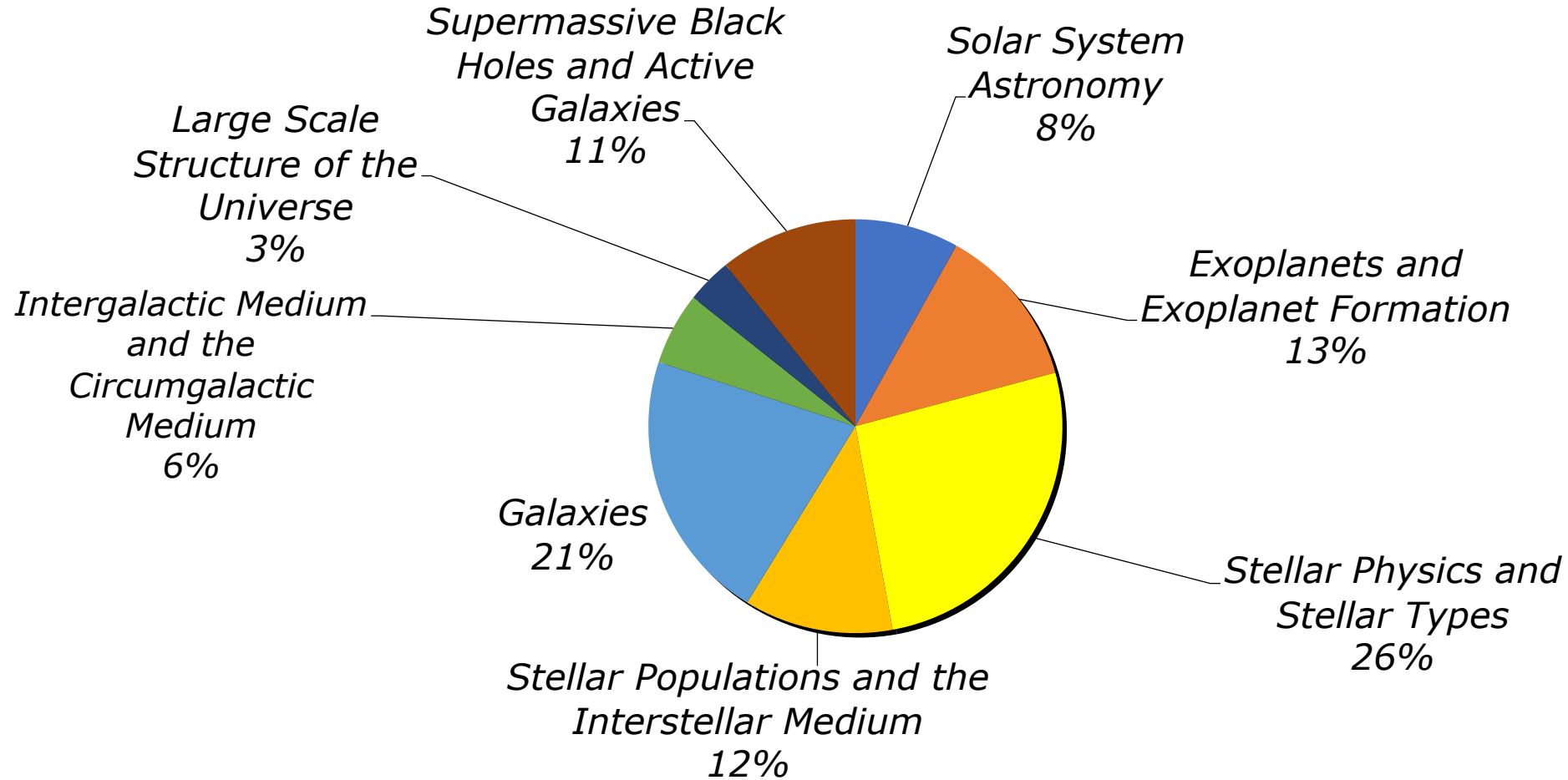


# ESA Proposal Submissions





# Science Categories for Proposals





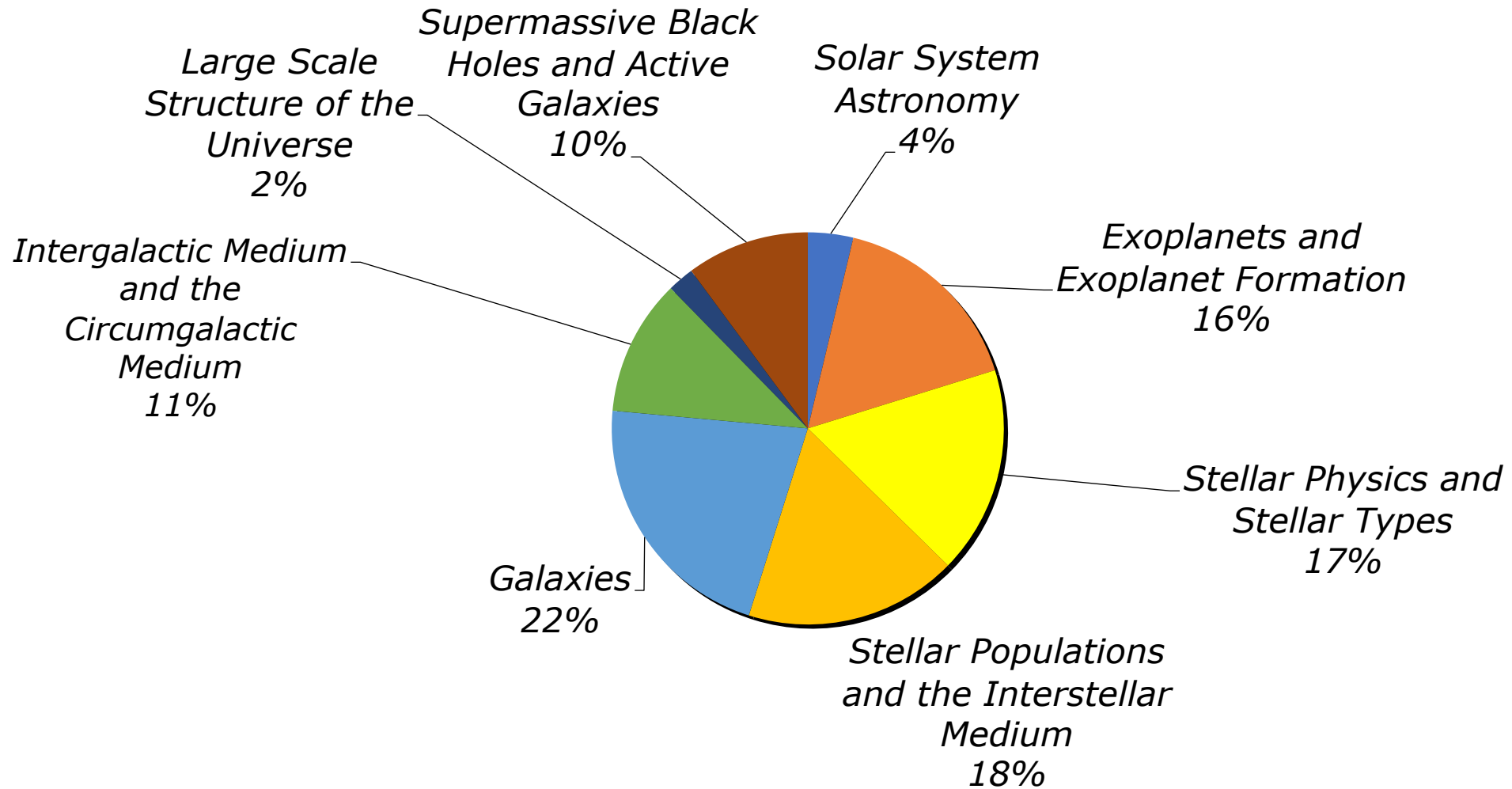
The background of the image is a deep blue and black starry sky. A large, diffuse nebula with wispy, cloud-like structures in shades of blue and purple is visible on the left side. Numerous bright stars of various colors, including blue, white, and yellow, are scattered across the field of view. The text 'Orbit Information' is centered in the middle of the image in a white, sans-serif font. A thin, horizontal orange line runs across the width of the image, positioned just below the text.

# Orbit Information

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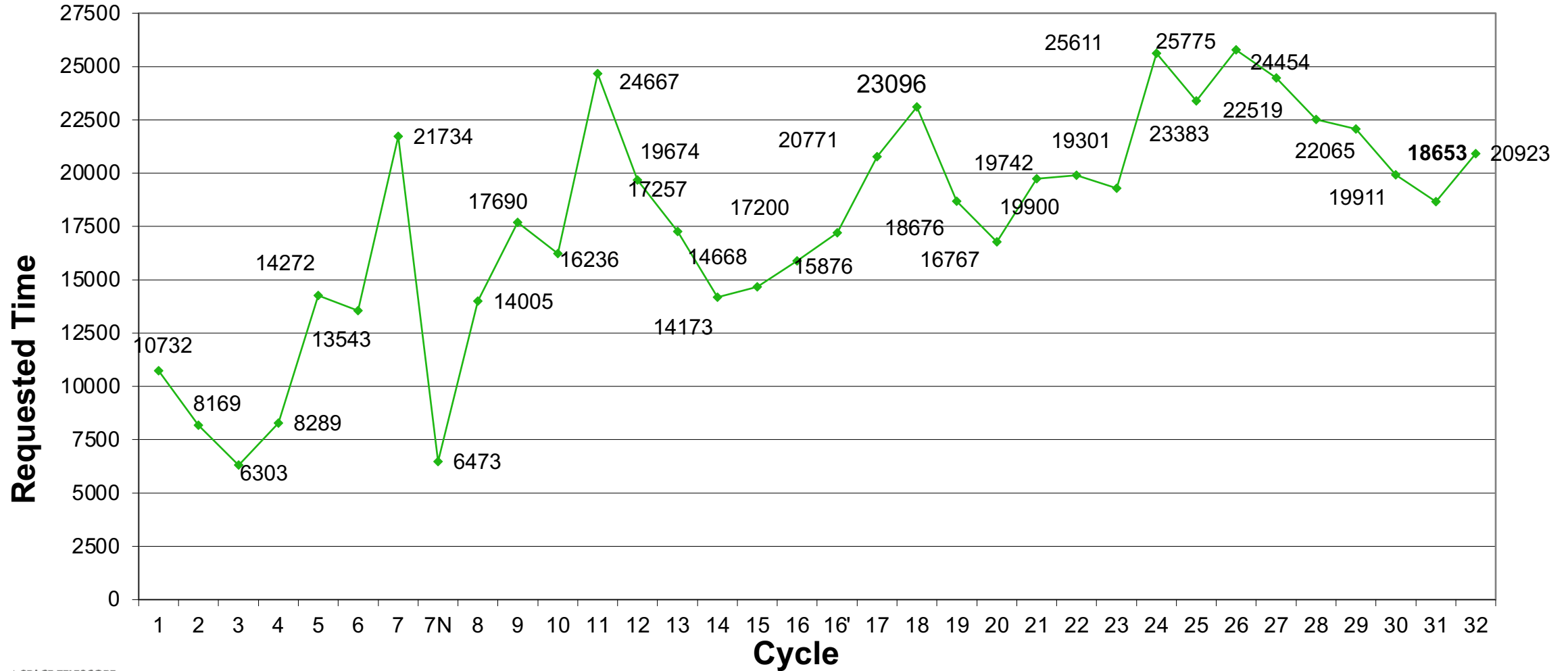


# Science Categories for Orbits



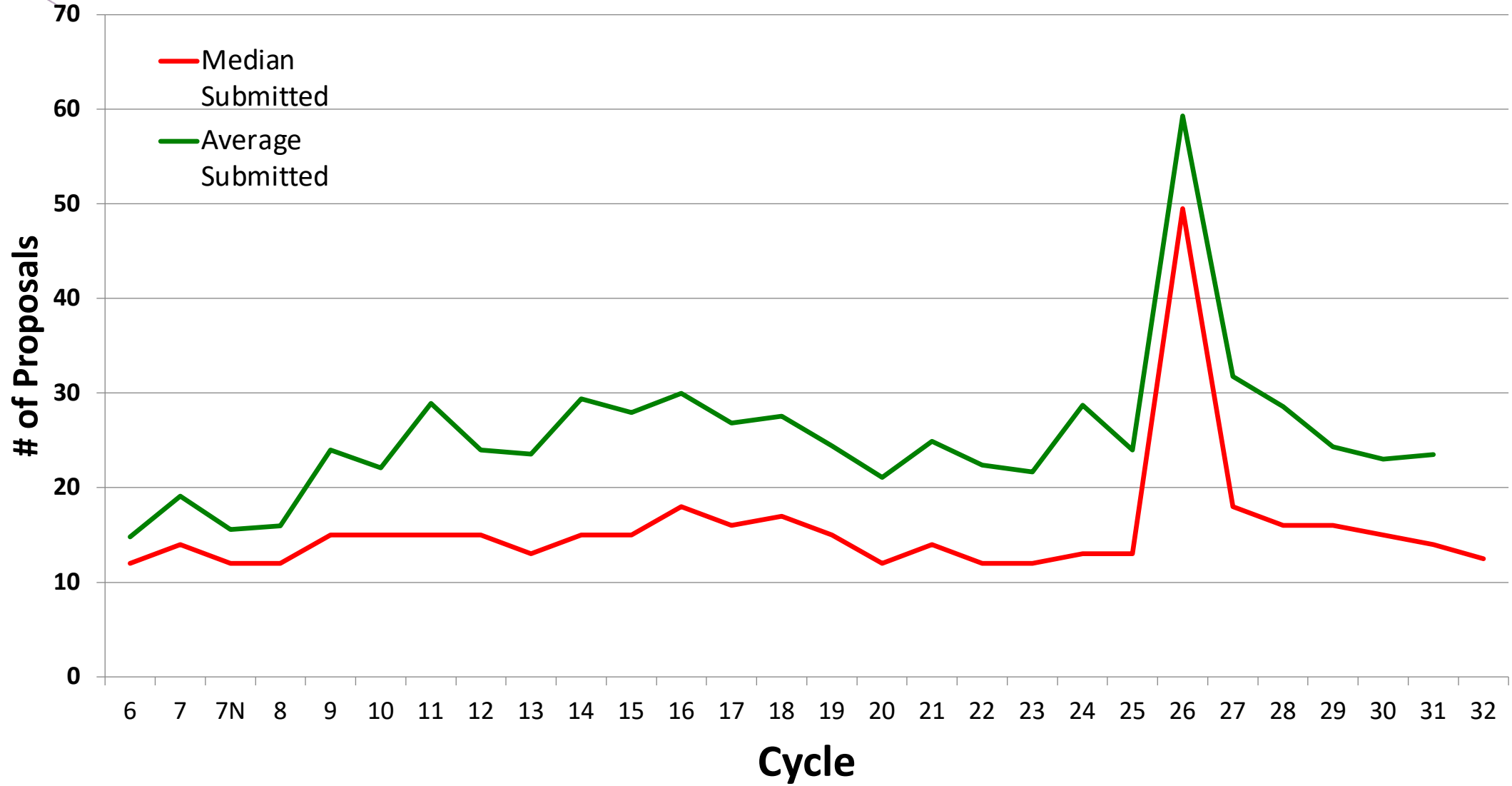


# Orbits Requested





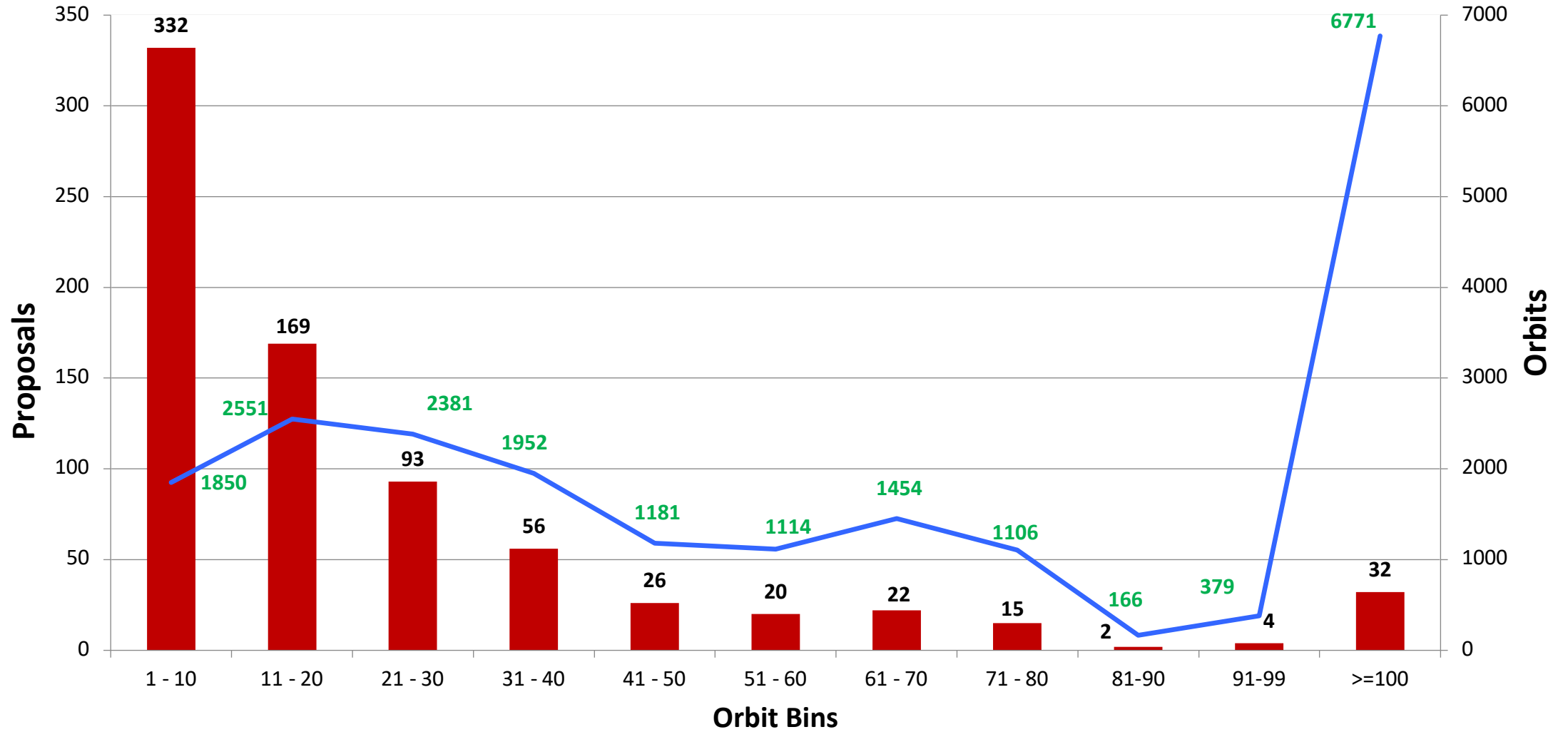
# Orbit Size by Cycle





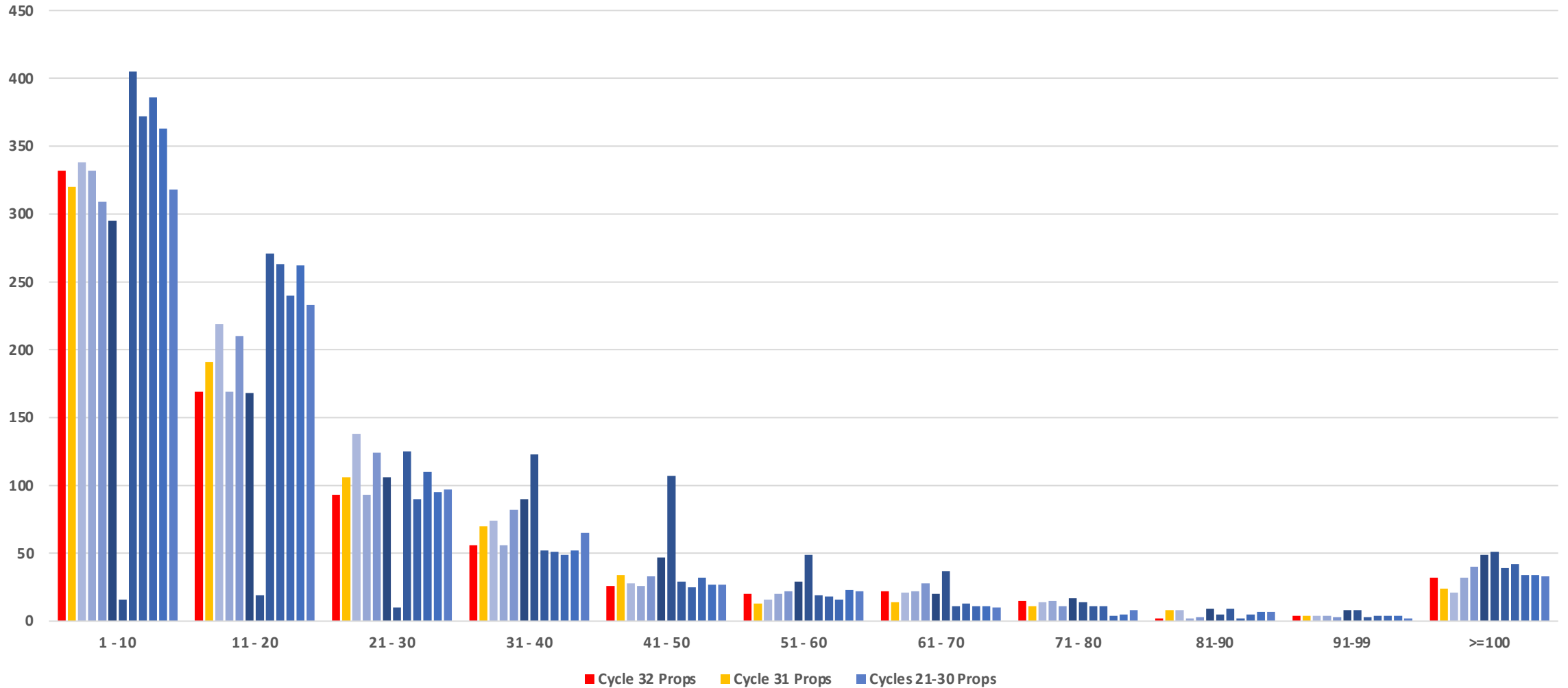


# Requested Orbit Bins



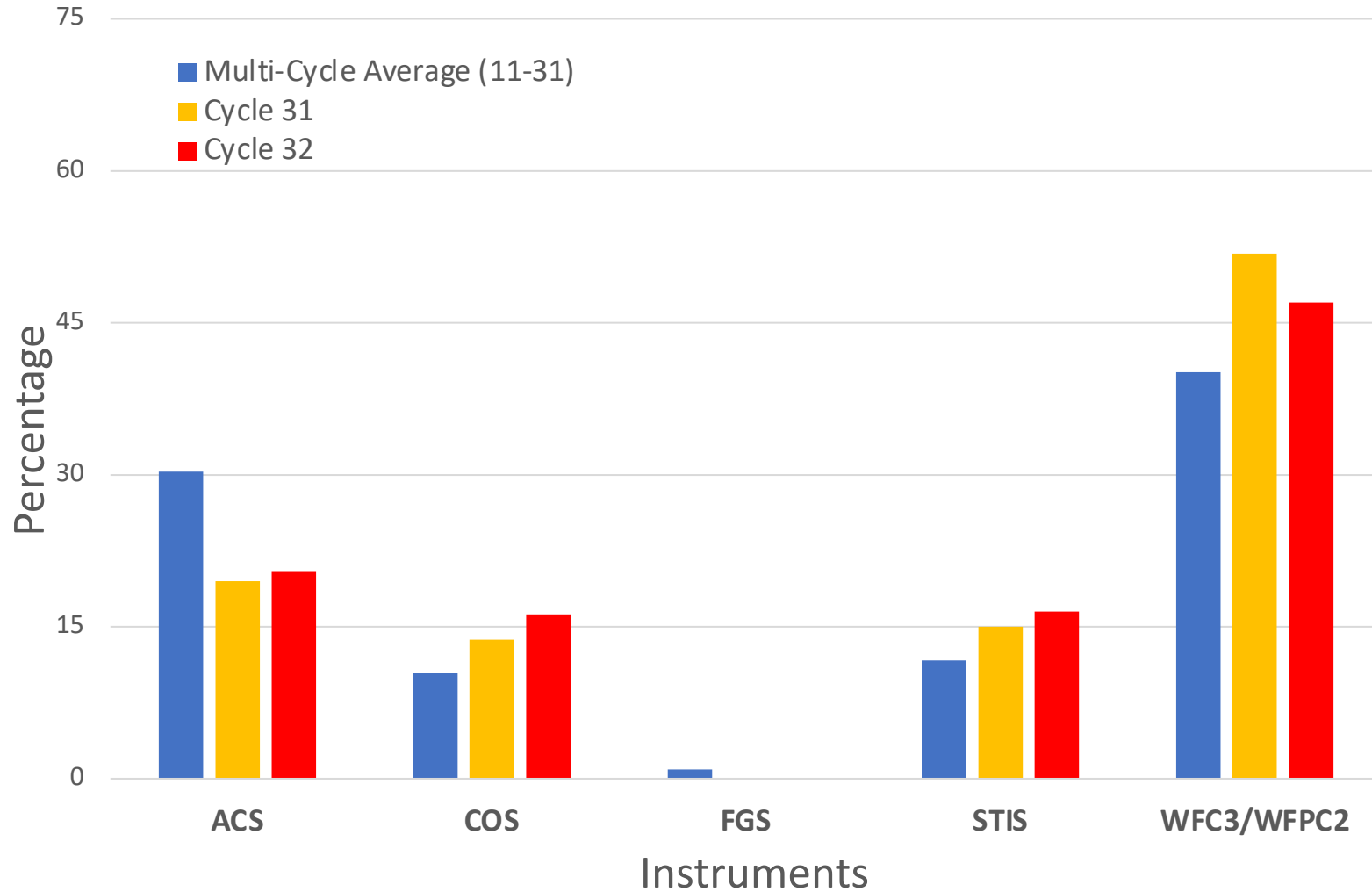


# Orbits bins through the Years



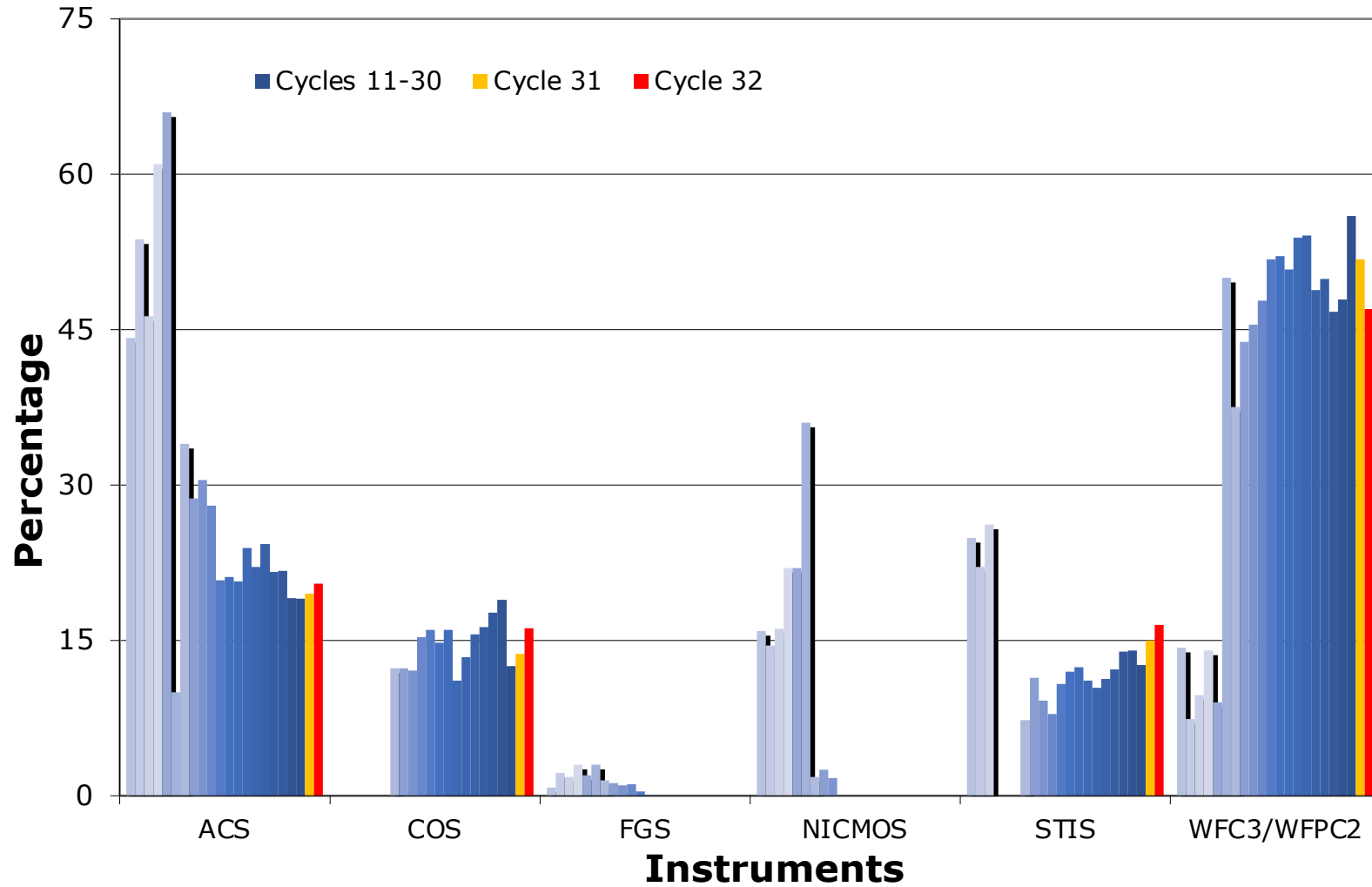


# GO Requested Instruments





# GO Requested Instruments: Multi-Cycle (11-32)







## Instrument Modes (in hours)

Configuration	Mode	Prime (h)	Coordinated Parallel (h)	Total (h)	Prime Usage (h)	Prime + Coordinated Parallel Usage	Pure Parallel Usage (h)	SNAP Usage (N targets)
ACS/SBC	Imaging	30.62	0.0	171.92	113.07	171.92	0	0 %
ACS/SBC	Spectroscopy	0.33	0.0				0	0 %
ACS/WFC	Imaging	75.28	58.85				0	19.8 %
ACS/WFC	Ramp Filter	6.55	0.0				0	0 %
ACS/WFC	Spectroscopy	0.28	0.0				0	0 %
COS/FUV	Spectroscopy	112.77	0.0	135.68	135.68	135.68	0	12.3 %
COS/NUV	Imaging	2.82	0.0				0	0 %
COS/NUV	Spectroscopy	20.10	0.0				0	0 %
FGS	POS	0.0	0.0	0.0	0.0	0.0	0	0 %
FGS	TRANS	0.0	0.0				0	0 %
STIS/CCD	Imaging	9.40	0.0	138.10	138.10	138.10	0	0 %
STIS/CCD	Spectroscopy	33.83	0.0				0	0 %
STIS/FUV	Imaging	1.40	0.0				0	0.7 %
STIS/FUV	Spectroscopy	41.47	0.0				0	5.9 %
STIS/NUV	Imaging	0.07	0.0				0	0 %
STIS/NUV	Spectroscopy	51.90	0.0				0	0 %
WFC3/IR	Imaging	55.90	1.34	393.42	328.2	393.42	0	26.5 %
WFC3/IR	Spectroscopy	11.70	0.0				0	0 %
WFC3/UVIS	Imaging	255.62	55.62				0	33.2 %
WFC3/UVIS	Spectroscopy	4.98	0.0				0	0 %



## Instrument Modes (fractions)

Configuration	Mode	Prime %	Coordinated Parallel (to Total Prime) %	Total (Prime + Coordinated + Pure Parallels)	Prime Usage	Prime + Coordinated Parallel Usage	Pure Parallel Usage	SNAP Usage (N targets)
ACS/SBC	Imaging	4.28 %	0 %	20.49 %	15.81 %	20.49 %	0 %	0 %
ACS/SBC	Spectroscopy	0.05 %	0 %				0 %	0 %
ACS/WFC	Imaging	10.53 %	8.2 %				0 %	19.8 %
ACS/WFC	Ramp Filter	0.92%	0 %				0 %	0 %
ACS/WFC	Spectroscopy	0.04 %	0 %				0 %	0 %
COS/FUV	Spectroscopy	15.77 %	0 %	16.17 %	18.98 %	16.17 %	0 %	12.3 %
COS/NUV	Imaging	0.39 %	0 %				0 %	0 %
COS/NUV	Spectroscopy	2.81 %	0 %				0 %	0 %
FGS	POS	0 %	0 %	0 %	0 %	0 %	0 %	0 %
FGS	TRANS	0 %	0 %				0 %	0 %
STIS/CCD	Imaging	1.32 %	0 %	16.46 %	19.31 %	16.46 %	0 %	0 %
STIS/CCD	Spectroscopy	4.73 %	0 %				0 %	0 %
STIS/FUV	Imaging	0.20 %	0 %				0 %	0.7 %
STIS/FUV	Spectroscopy	5.80 %	0 %				0 %	5.9 %
STIS/NUV	Imaging	0.01 %	0 %				0 %	0 %
STIS/NUV	Spectroscopy	7.26 %	0 %				0 %	0 %
WFC3/IR	Imaging	7.82 %	1.34 %	46.90 %	45.90 %	46.88 %	0 %	26.5 %
WFC3/IR	Spectroscopy	1.64 %	0.0 %				0 %	0 %
WFC3/UVIS	Imaging	35.75 %	7.78 %				0 %	33.2 %
WFC3/UVIS	Spectroscopy	0.70 %	0 %				0 %	0 %



## Joint Observatory Requests

Observatory	Proposals	Requested Time	HST Orbits
Chandra	15	1066 Ksecs	204
JWST	27	243.57 Hours	654
NOIRLab	17	26.1 Nights	352
NRAO	9	179.92 Hours	155
TESS	1	1 Target	8
XMM	10	861 Ksecs	170



## Targets of Opportunity Requests

	Activations
Ultra Disruptive	9
Disruptive	32
Non-Disruptive	30
FlexDay	5

(Some proposals are in multiple categories)



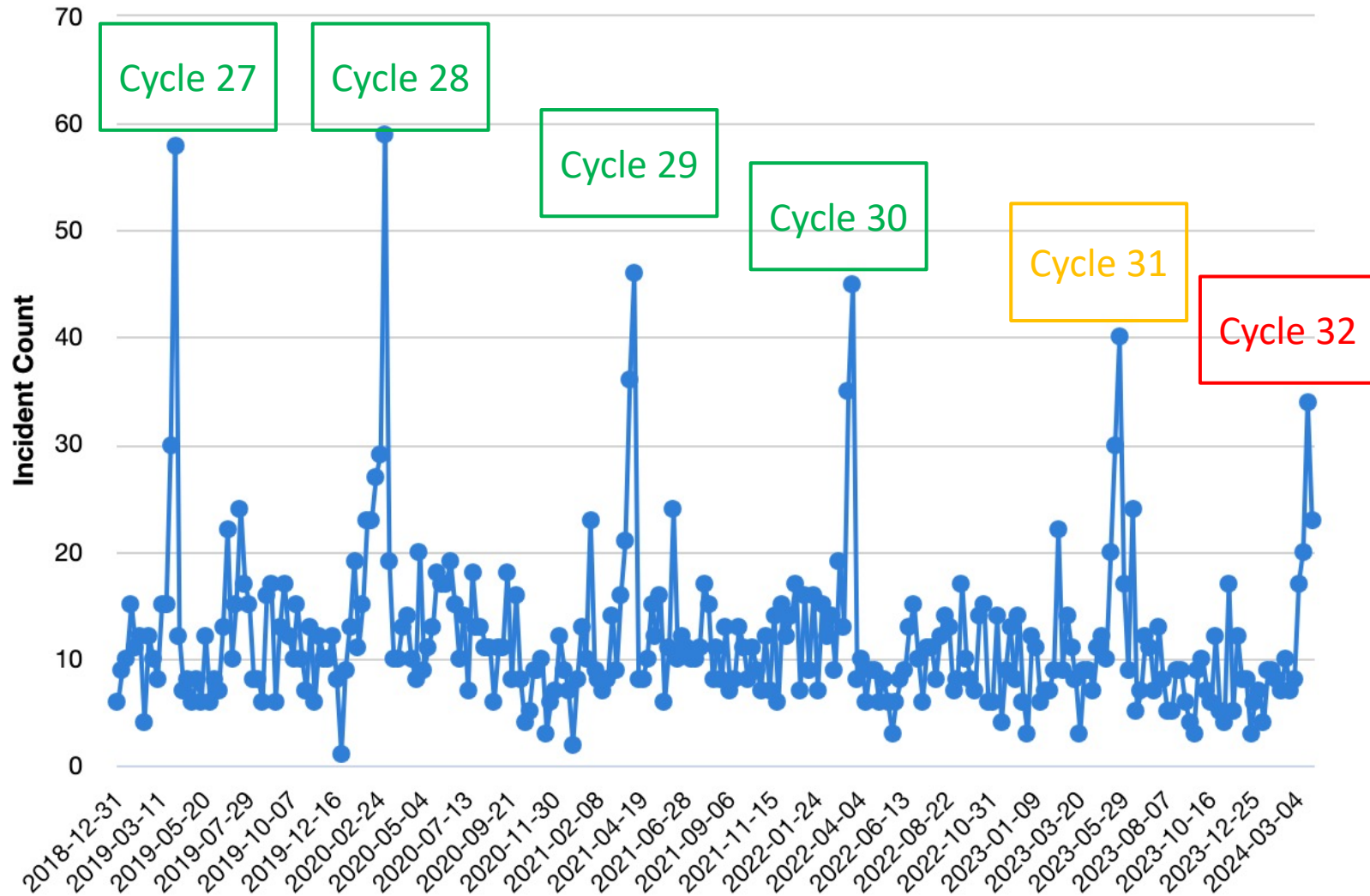
## Special Initiatives

Initiative	Proposals	HST Orbits
UV	322 + 35 ARs	11,588
Fundamental Physics	12 + 7 ARs	401 + 248 (Par)
Cloud Computing	2	-
Data Science Software	8	-
Calibration	2	23



# Help Desk Questions

Proposal deadlines








# Investigator Demographics

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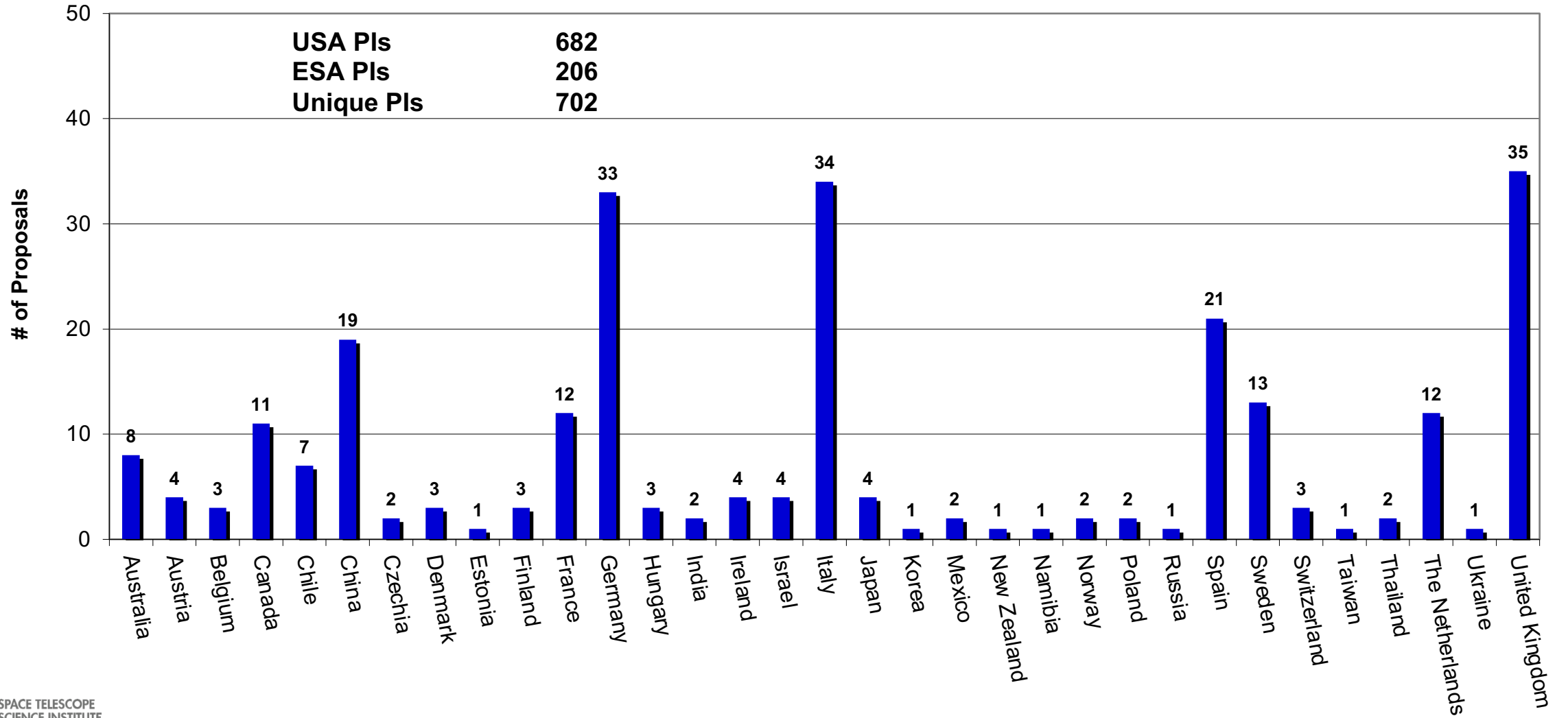
# Countries of Investigators



Country	PI	CoPI	Col	Country	PI	CoPI	Col	Country	PI	CoPI	Col
Argentina			8	Hungary	3		7	Russia	1	1	25
Australia	8	3	102	Iceland			1	Singapore			1
Austria	4	1	25	India	2	3	20	Slovenia			3
Belgium	3	1	34	Indonesia			1	South Africa			7
Brazil			14	Ireland	4	3	24	Spain	21	2	137
Canada	11	5	144	Israel	4	1	54	Sweden	13	4	125
Chile	7	2	79	Italy	34	5	402	Switzerland	3	1	84
China	19	3	119	Japan	4		64	Taiwan	1		20
Colombia			1	Korea	1	1	16	Thailand	2		9
Cyprus			1	Mexico	2	1	27	The Netherlands	12	7	102
Czechia	2	4	9	Morocco			1	The Vatican			1
Denmark	3		51	Namibia	1		1	Venezuela	1		4
Estonia	1		1	Nepal			1	Ukraine	1		7
Finland	3		17	New Zealand			4	United Kingdom	35	13	419
France	12	7	161	Norway	2		6				
Germany	33	14	332	Poland	2	1	10	United States	680	192	4113
Greece			7	Portugal			5				

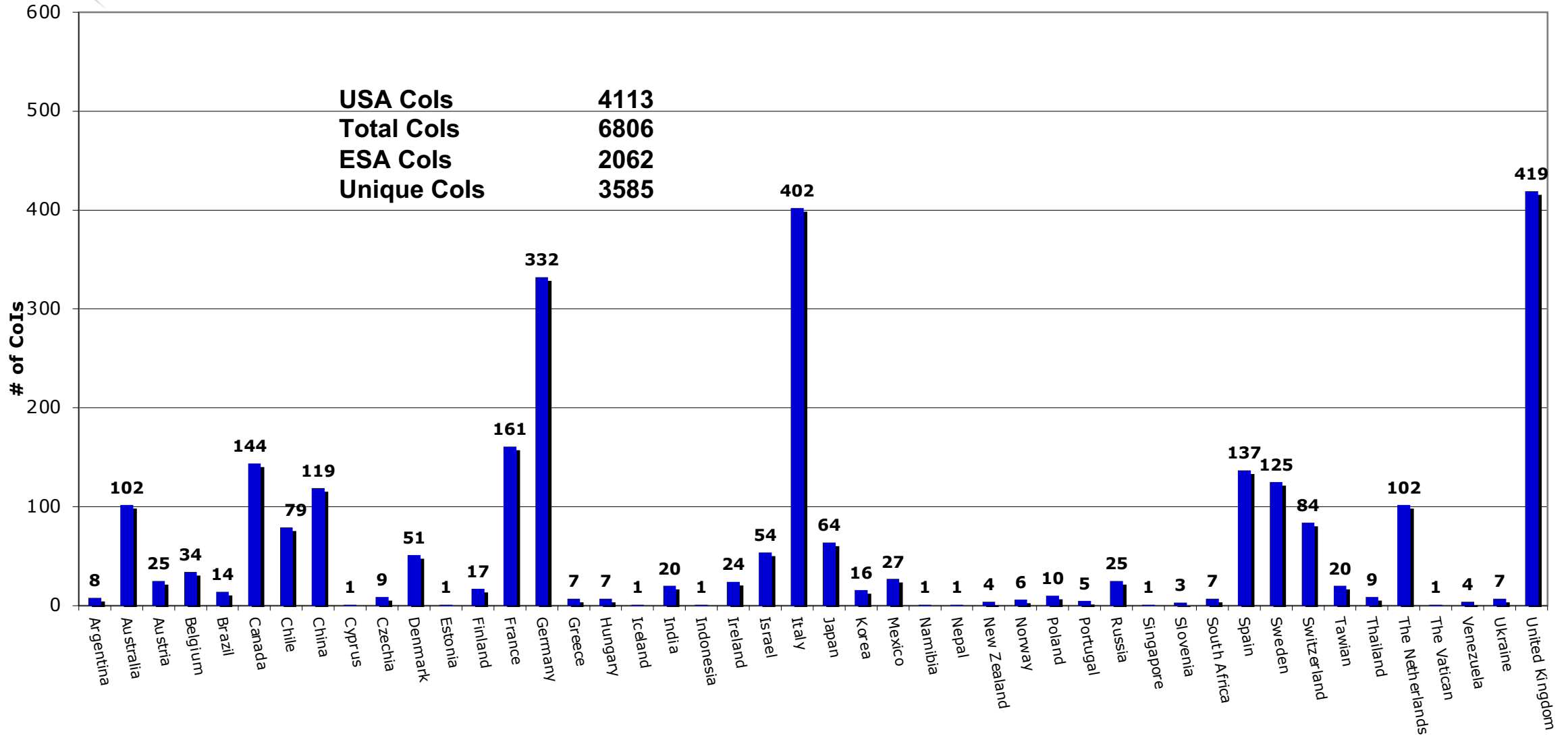


# PI Countries





# Co-Investigator Countries





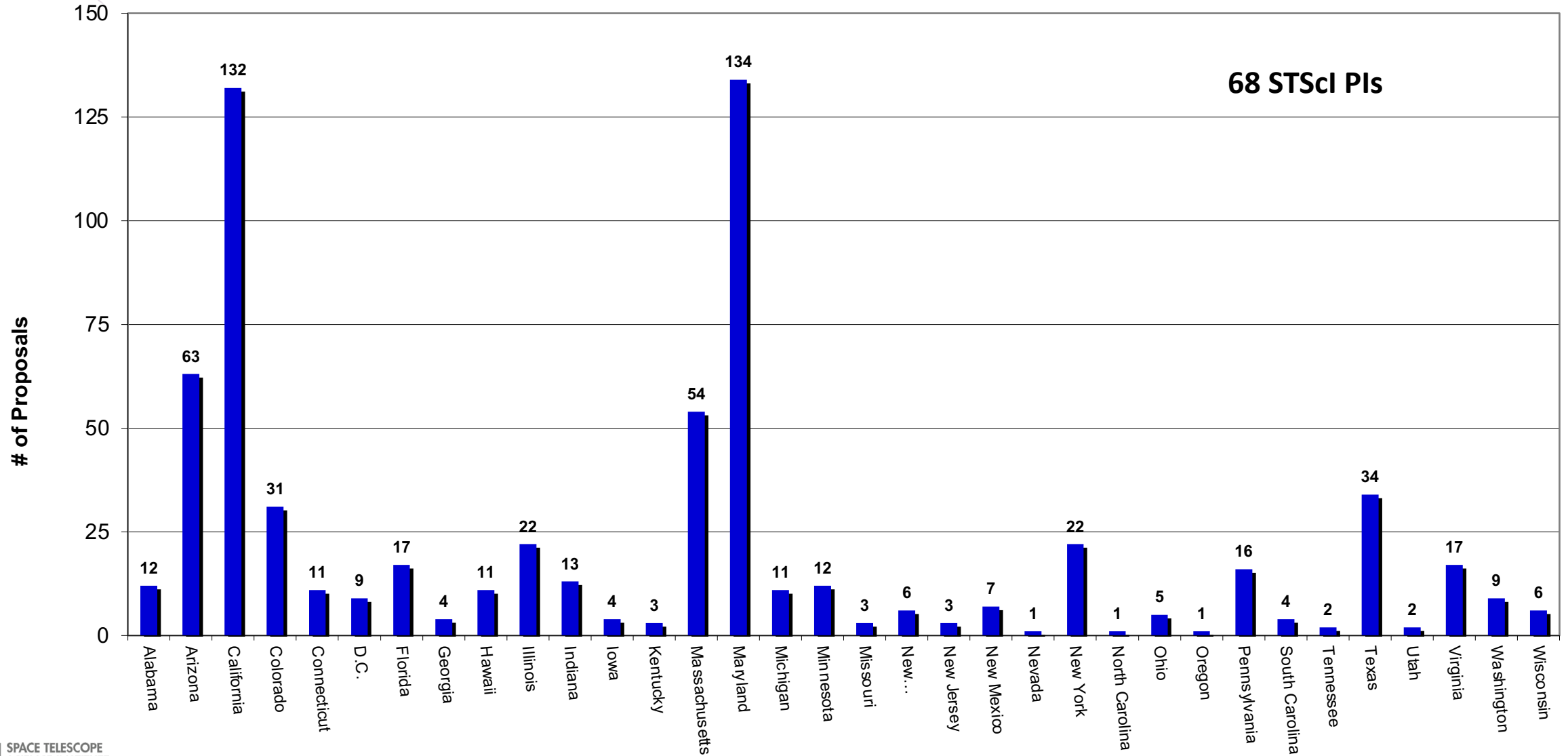
# US States and Territories of Investigators

US State	PI	CoPI	Col	US State	Col	CoPI	Col	US State	PI	CoPI	Col
Alabama	12	3	45	Maine			1	Ohio	5	1	66
Arizona	63	13	381	Maryland	134	44	979	Oklahoma			2
California	132	33	730	Massachusetts	54	19	307	Oregon	1		
Colorado	31	6	91	Michigan	11	1	87	Pennsylvania	16	8	80
Connecticut	11	1	32	Minnesota	12	5	89	Rhode Island			1
Delaware			5	Mississippi				South Carolina	4		24
District of Columbia	9	3	111	Missouri	3		20	Tennessee	2	1	13
Florida	17	3	75	Montana	1		1	Texas	34	11	171
Georgia	4	4	29	Nebraska			1	Utah	2		25
Hawaii	11	1	42	Nevada			1	Vermont			1
Illinois	22	13	153	New Hampshire	6	1	30	Virgin Islands			
Indiana	13	8	79	New Jersey	3	2	70	Virginia	17	4	101
Iowa	4		13	New Mexico	7	1	31	Washington	9	2	45
Kansas			7	Nevada	1			West Virginia			1
Kentucky	3		14	New York	22	3	100	Wisconsin	6		31
Louisiana			2	North Carolina	1	1	27	Wyoming	1		8





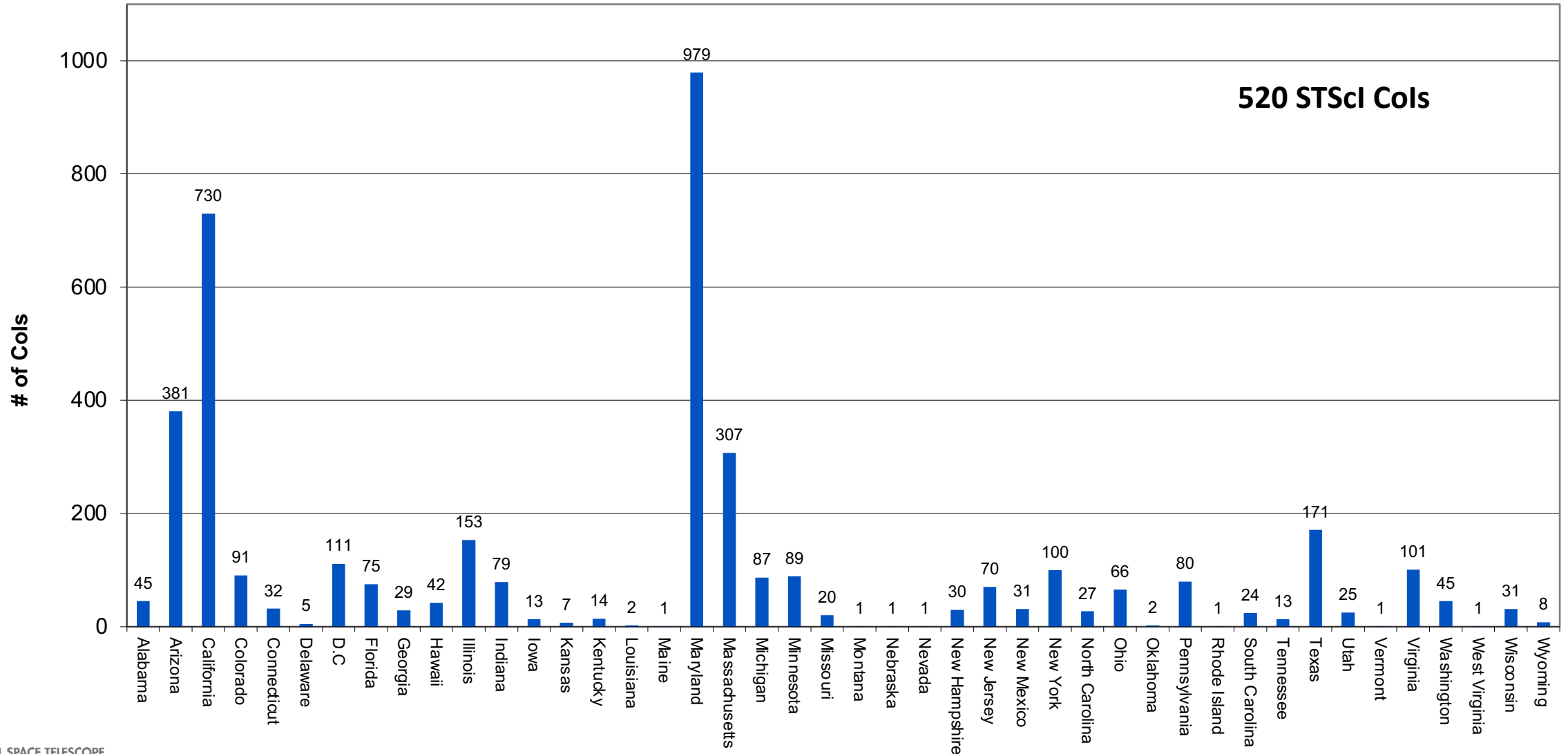
# PI States and Territories





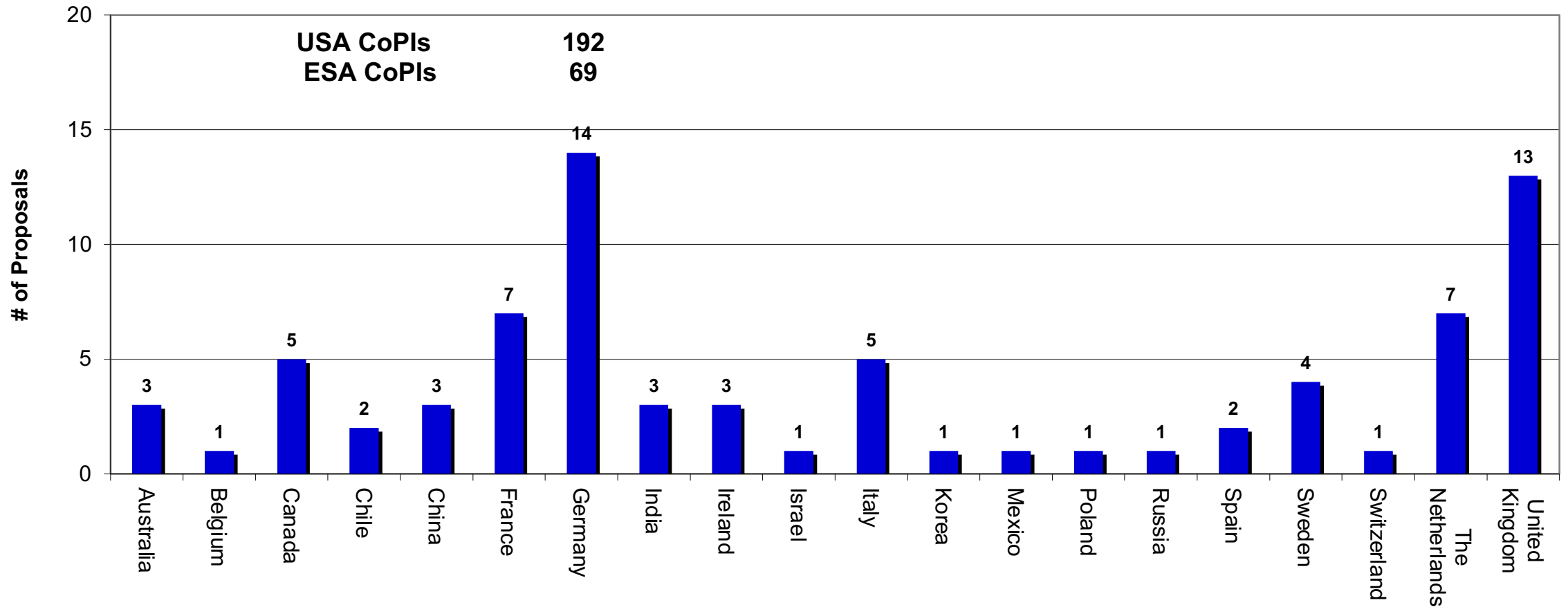


# Co-Investigator US States and Territories



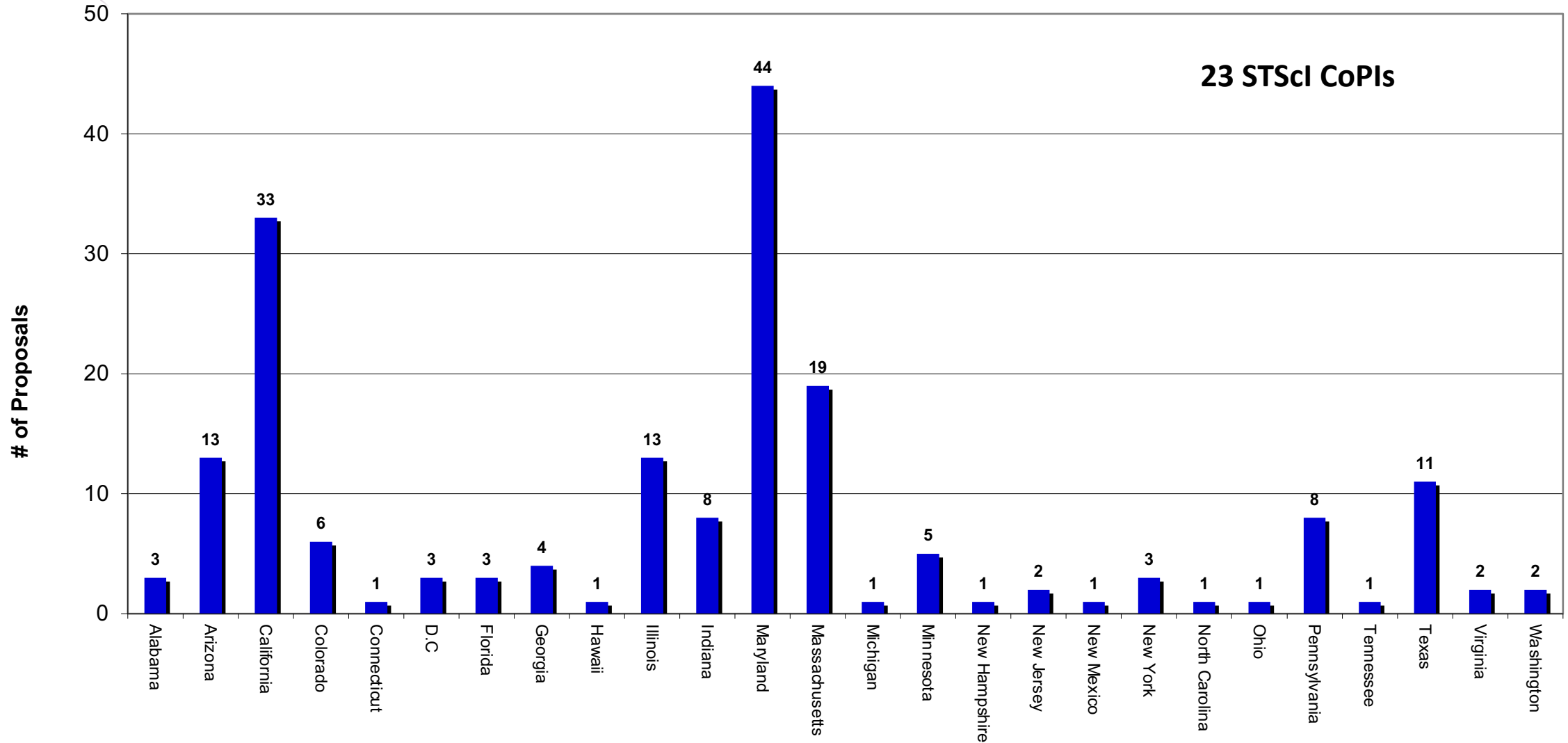


# CoPIs by Country





# CoPIs US States and Territories





# Demographics

	Proposals
<b>PIs</b>	935
<b>Unique PIs</b>	702
<b>Unique PI Institutions</b>	277
<b>Cols</b>	6,806
<b>Unique Cols</b>	3,296
<b>Total CoPIs</b>	275
<b>Total Investigators</b>	8,017
<b>Unique Investigators</b>	3,585
<b>Unique Institutions</b>	774
<b>ESA PIs</b>	206
<b>ESA Cols</b>	2,062
<b>ESA CoPIs</b>	69
<b>Total Countries</b>	50
<b>Total US States and Territories</b>	44



# Some things never change

## Proposal Submissions/Resubmissions on Day of Deadline

