

# Cycle 24 Mid-Cycle Results & Cycle 25 Preparations

STUC

4 May 2017

# Cycle 24 Mid-cycle Results

- Two submission deadlines: 9/30/16 and 1/31/17
- Proposals sent to four external reviewers who sent their grades
- Ranking based on the received grades
- 90 proposals in total submitted for 516 Orbits
  - 3 Proposals deemed non-complaint for 16 orbits
  - 1 Proposal withdrawn by PI during review for 4 orbits
  - 28 Proposals recommended for 157 orbits
  - Acceptance Rate:  $\sim 1/3$  for proposals and orbits
- Instrument breakdown: ACS (10%), COS (27%), STIS (19%), and WFC3 (44%)
- Imaging (36%) and Spectroscopy (64%)
- ESA acceptance fraction:
  - PIs 43% for proposals and 49% for orbits
  - ESA Cols are 42% of the total Cols
- UV Initiative: 36% for Proposals and 46% for Orbits

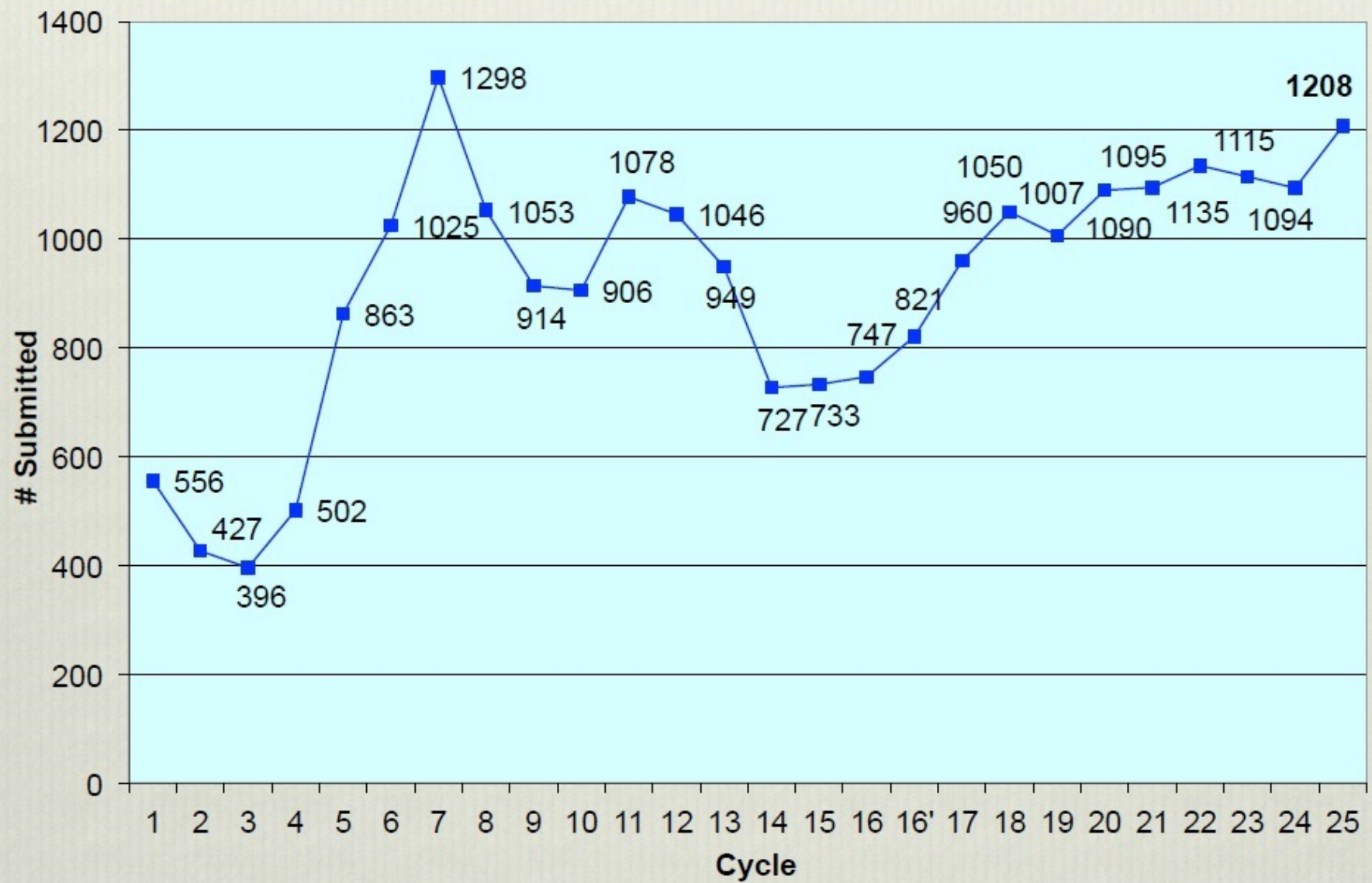


# Mid-Cycle Results by Science Category

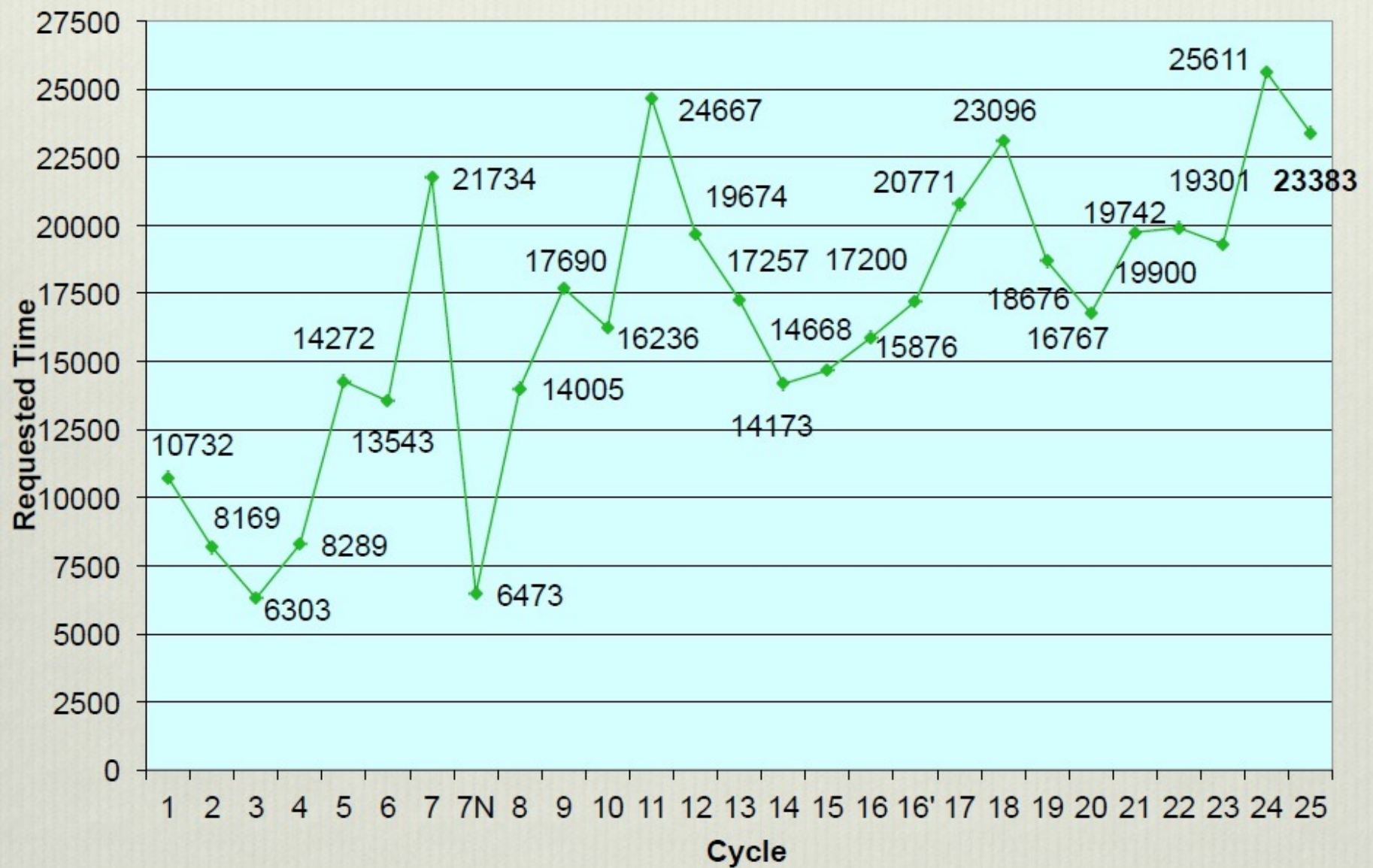
	Submitted		Approved		Acceptance	
	Proposals	Orbits	Proposals	Orbits	Proposals	Orbits
Black Holes	16	72	3	10	11%	6%
ExoPlanets	17	134	10	74	36%	47%
Galaxies	20	116	5	26	18%	17%
IGM & COS	4	15	1	5	4%	3%
Solar System	5	29	3	10	11%	6%
Stellar Physics	19	85	6	32	21%	20%
Stellar Pops	5	41	0	0	0%	0%
	<b>86</b>	<b>492</b>	<b>28</b>	<b>157</b>	<b>33%</b>	<b>32%</b>

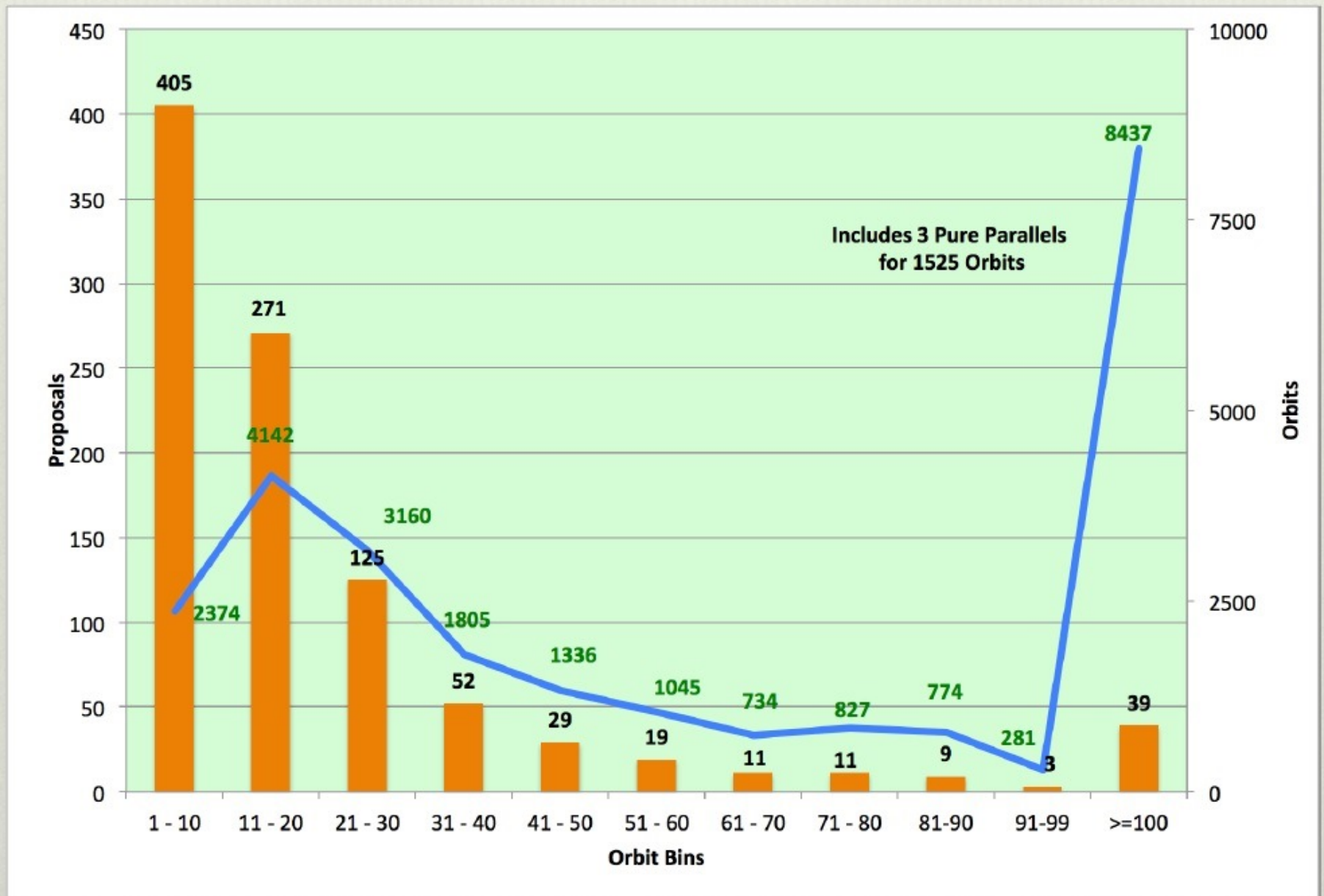
# Cycle 25 (*Cycle 24*) Proposal Statistics

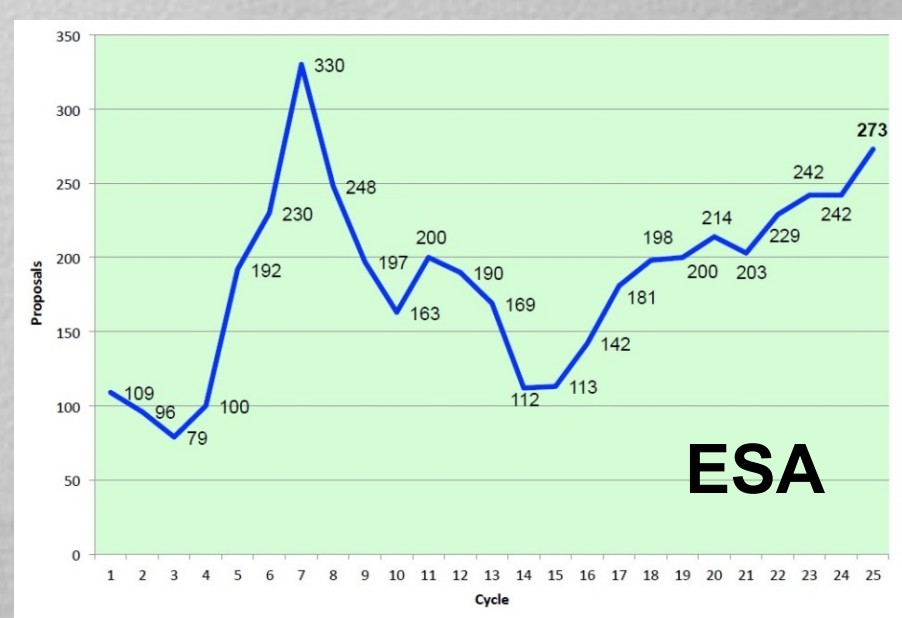
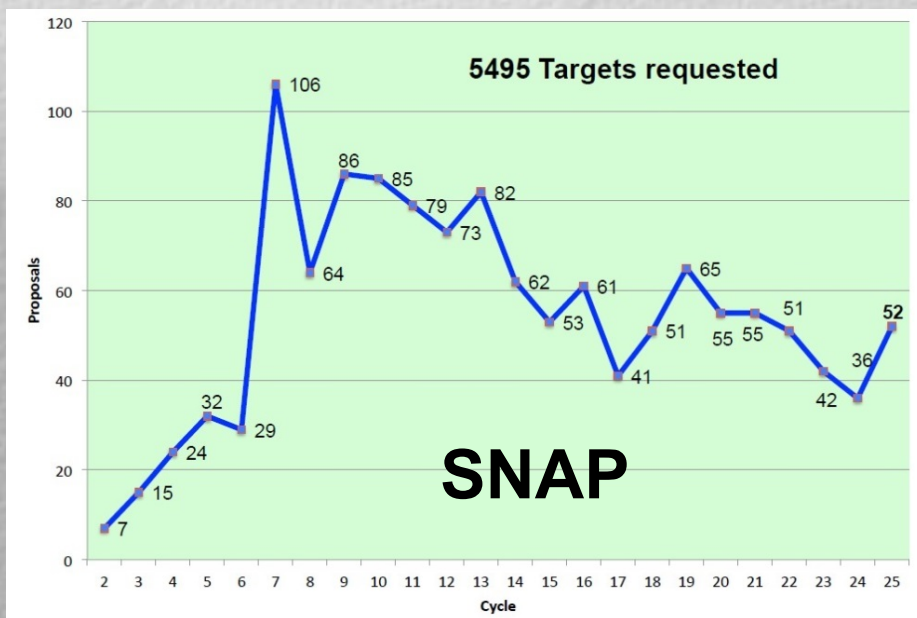
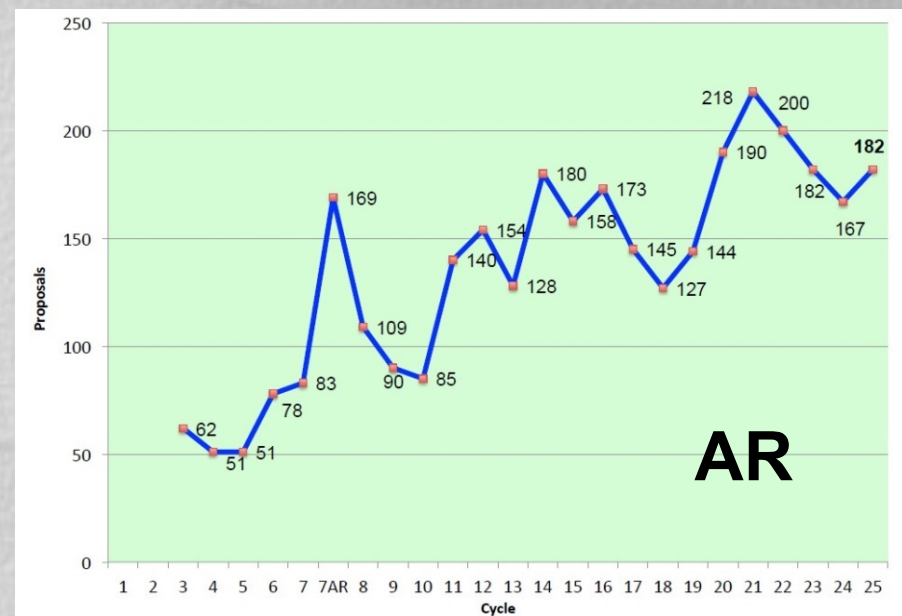
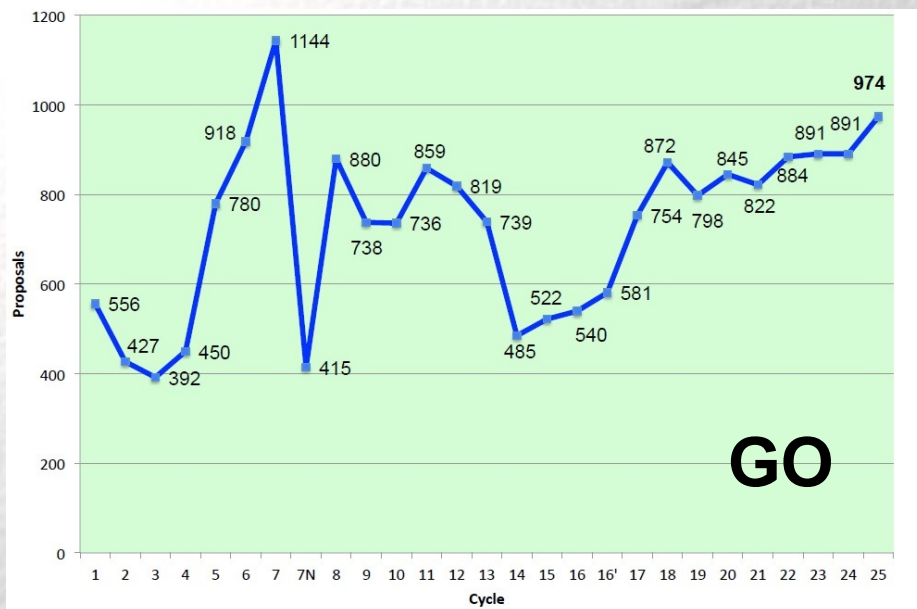
<b>Total Proposals</b>	<b>1208 (1094)</b>	<b>Cycle 25</b>	<b>Cycle 26</b>	<b>Cycle 27</b>
GO	974 (891)	23,383 (25,611)	453 (409)	141 (144)
SNAP	52 (36)	5316 (3718)		
Archival Research	Regular	Legacy		
Regular	105 (90)	12 (13)		
Theory	64 (63)	1 (1)		
Total	169 (153)	13 (14)	182 (167)	
ESA	270 (242)			
ESA GO	254 (233)	6086 (5388)	Orbits	
ESA SNAPs	15 (5)	1379 (501)	Targets	
ESA AR	1 (4)			
			ESA	Orbits
GO Large	40 (30)	4333 (3090)	10 (7)	1009 (798)
GO Medium	87 (93)	4240 (4493)	27 (18)	1270 (819)
GO Treasury	23 (28)	4281 (9073)	9 (7)	1078 (1528)
Pure Parallel	3 (2)	1525 (1080)	0 (0)	0 (0)





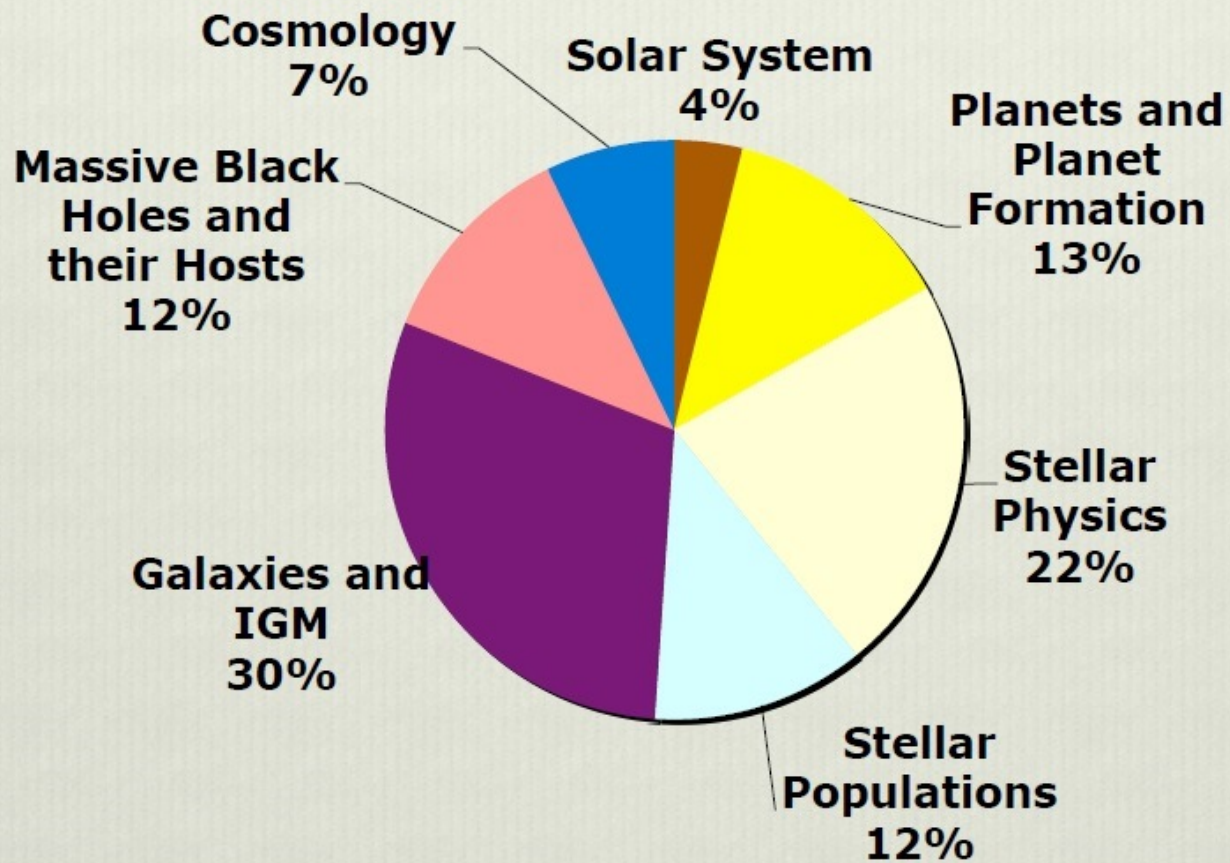




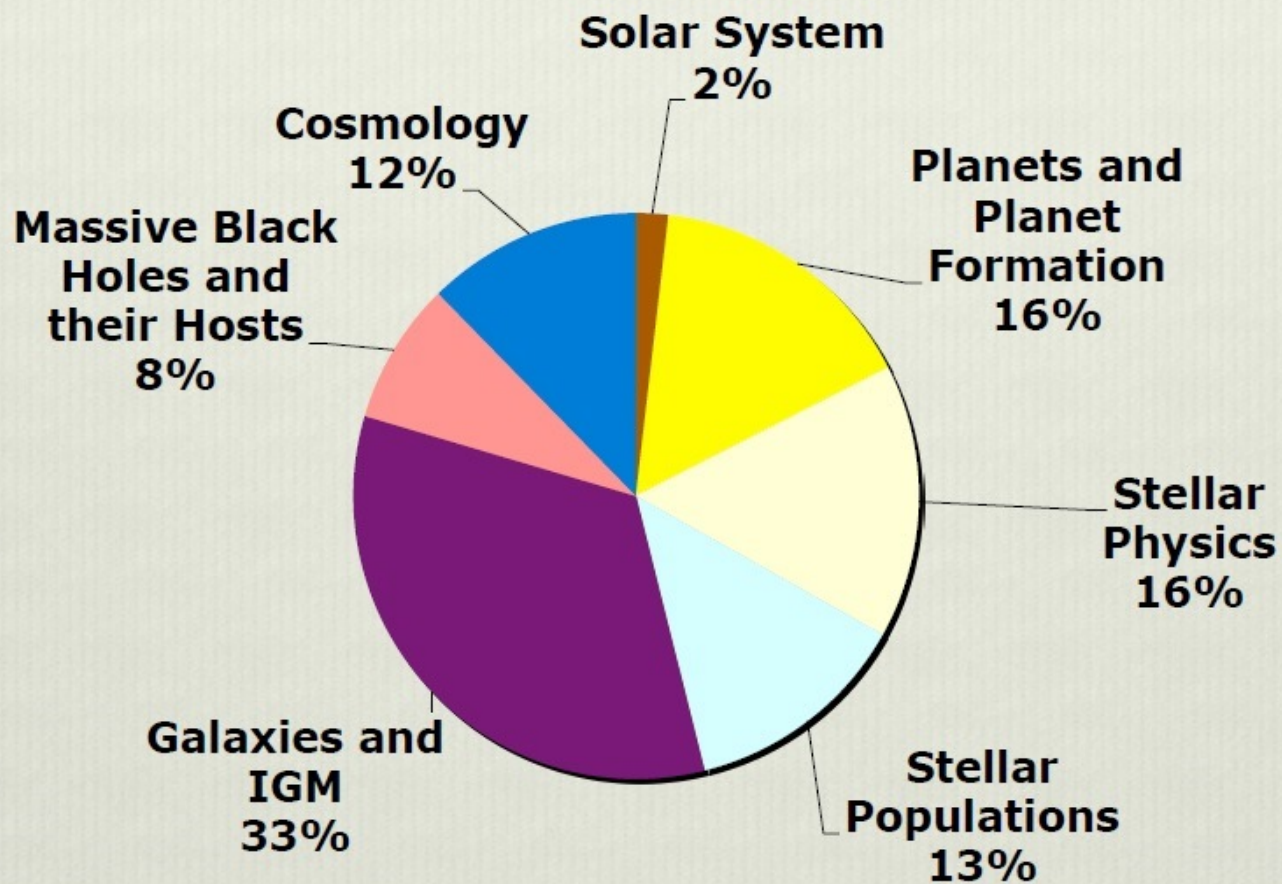




## ***Proposals by Science Categories***



## ***Orbits by Science Categories***





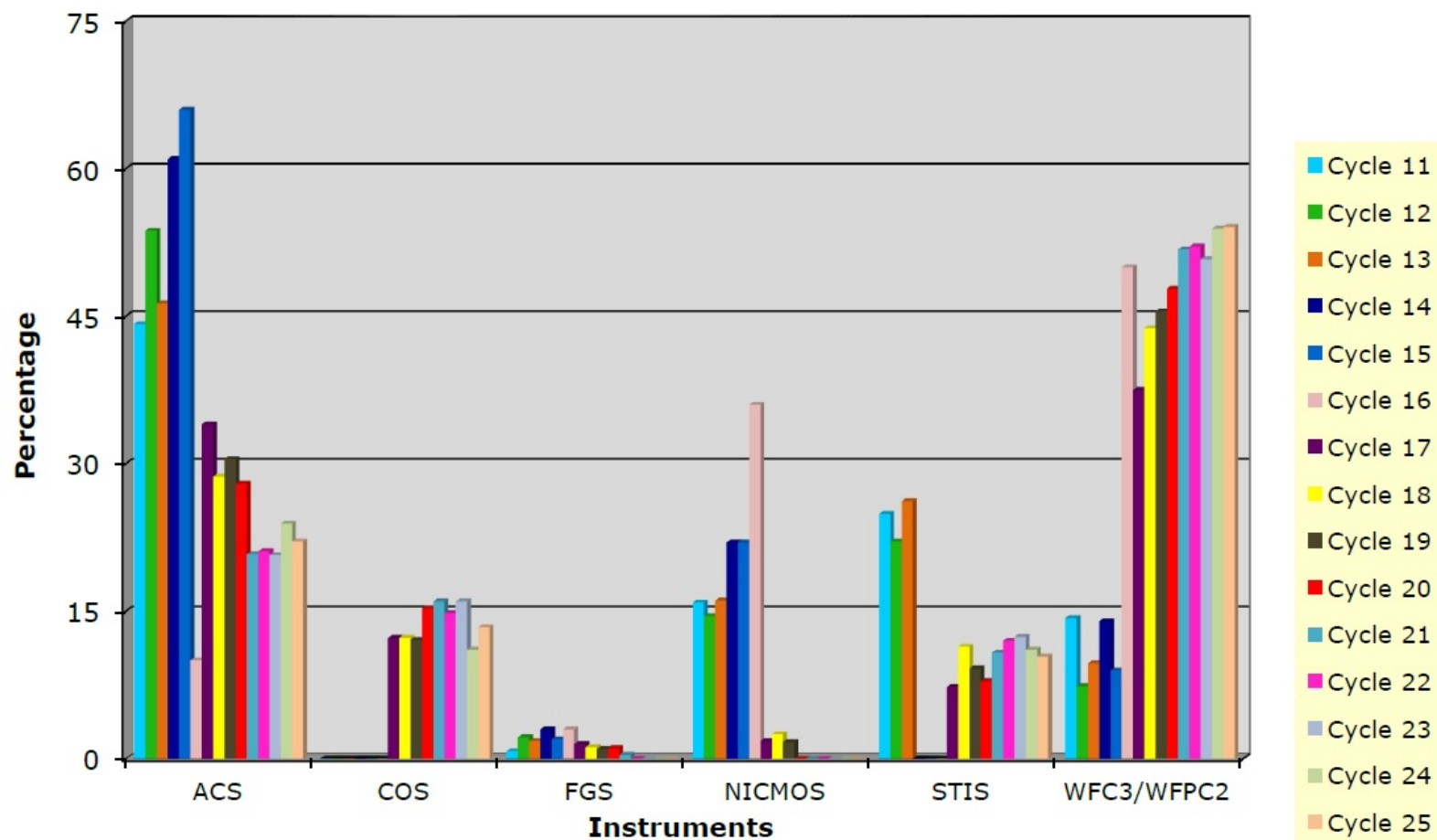
# C25 Instrument Summary

Configuration	Mode	Prime %	Coordinated Parallel %	Total	Instrument Prime Usage	Instrument Prime + Coordinated Parallel Usage	Pure Parallel Usage	Snap Usage
ACS/SBC	Imaging	1.4%	0.0%	1.0%			0.0%	0.0%
ACS/SBC	Spectroscopy	0.1%	0.0%	0.0%			0.0%	0.0%
ACS/WFC	Imaging	14.3%	39.6%	20.4%			10.0%	15.0%
ACS/WFC	Ramp Filter	0.6%	0.0%	0.4%	16.3%	22.1%	0.0%	0.0%
ACS/WFC	Spectroscopy	0.0%	0.5%	0.2%			0.0%	0.0%
COS/FUV	Spectroscopy	15.8%	0.0%	12.0%			0.0%	9.2%
COS/NUV	Imaging	0.1%	0.0%	0.1%	17.7%	13.4%	0.0%	0.0%
COS/NUV	Spectroscopy	1.8%	0.0%	1.4%			0.0%	2.3%
FGS	POS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FGS	TRANS	0.0%	0.0%	0.0%			0.0%	5.5%
STIS/CCD	Imaging	1.6%	0.0%	1.2%			0.0%	0.0%
STIS/CCD	Spectroscopy	3.5%	0.5%	2.8%			0.0%	3.3%
STIS/FUV	Imaging	0.0%	0.0%	0.0%	13.4%	10.4%	0.0%	0.0%
STIS/FUV	Spectroscopy	3.8%	0.0%	2.9%			0.0%	1.8%
STIS/NUV	Imaging	0.1%	0.0%	0.1%			0.0%	0.0%
STIS/NUV	Spectroscopy	4.4%	0.3%	3.4%			0.0%	3.6%
WFC3/IR	Imaging	20.3%	32.1%	23.1%			49.0%	25.5%
WFC3/IR	Spectroscopy	11.1%	9.1%	10.6%	52.6%	54.1%	33.0%	0.0%
WFC3/UVIS	Imaging	21.1%	17.8%	20.3%			8.0%	33.8%
WFC3/UVIS	Spectroscopy	0.2%	0.0%	0.1%			0.0%	0.0%
		100%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Prime + Coordinated Parallels  
 67% Imaging  
 33% Spectroscopy



## GO Requested Instruments



## Cycle 25 Joint Observatory Requests

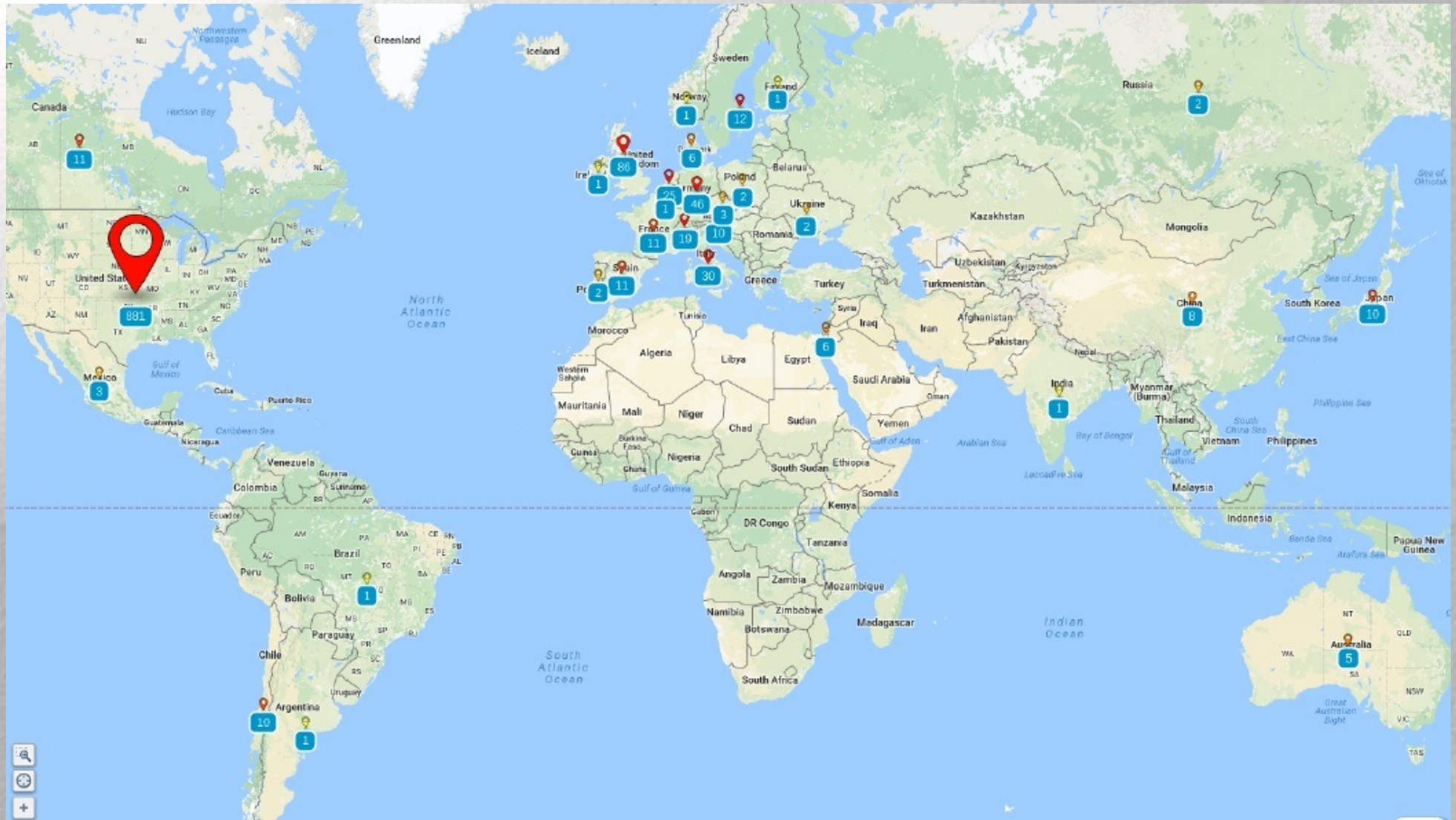
Joint Observatory	Proposals	Requested Time	HST Orbits
Chandra	15	1430 Ksecs	539
NOAO	12	23.3 Nights	354
NRAO	5	60 Hours	48
XMM	13	635 Ksecs	370

# C25: Special Categories

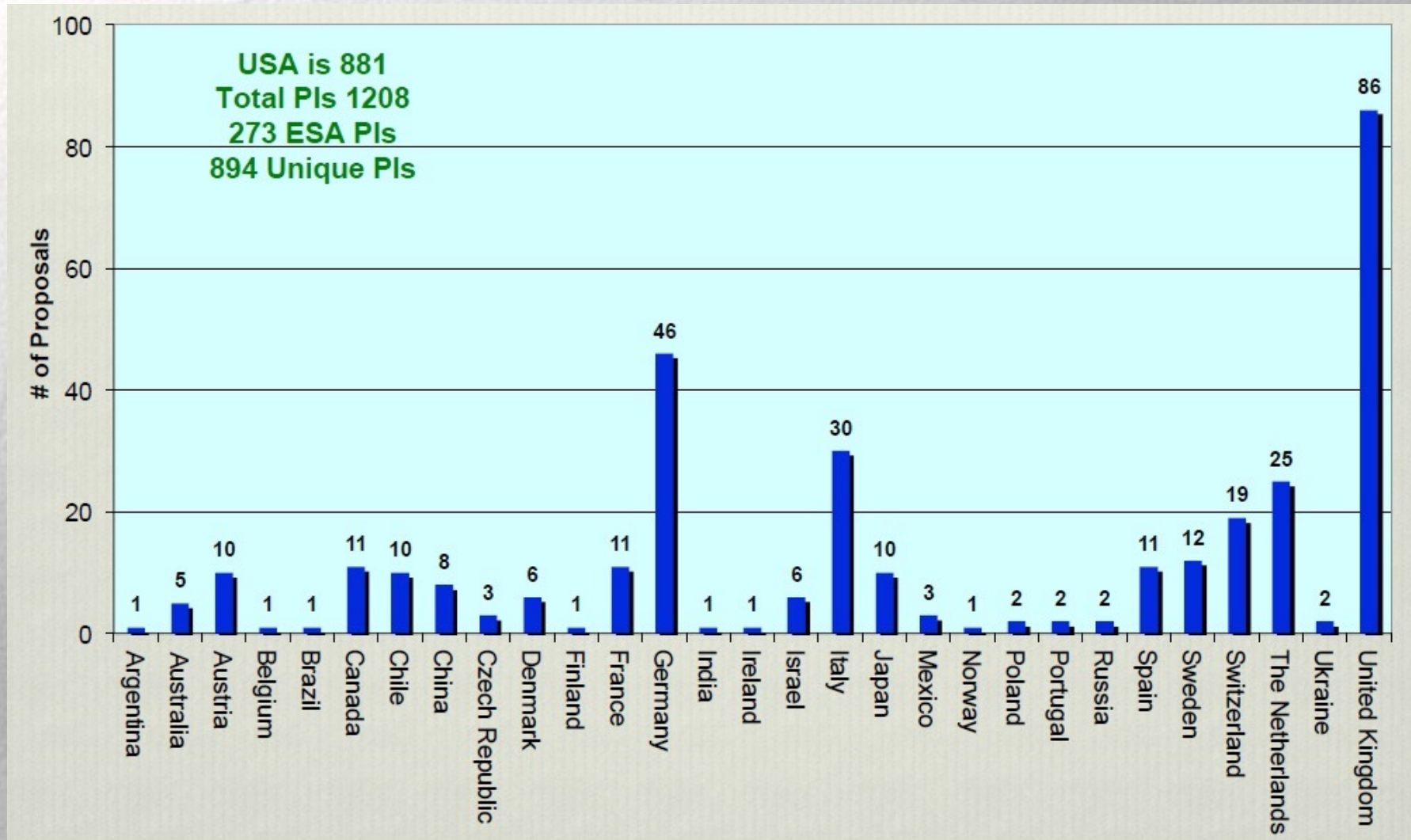
- 4 Calibration proposals
  - 2 Archival Research and 2 GO for 7 orbits
- 42 Target of Opportunity proposals
  - 13 Disruptive, 21 non-Disruptive and 8 Both
  - 20 Long-Term
- 87 Medium proposals for 4240 orbits
- UV Initiative: 397 GOs for 9539 orbits and 44 ARs
- JWST support: 85 GO proposals for 6047 orbits
- 3 Pure Parallel proposals for 1525 orbits



## Submitted Proposals around the World

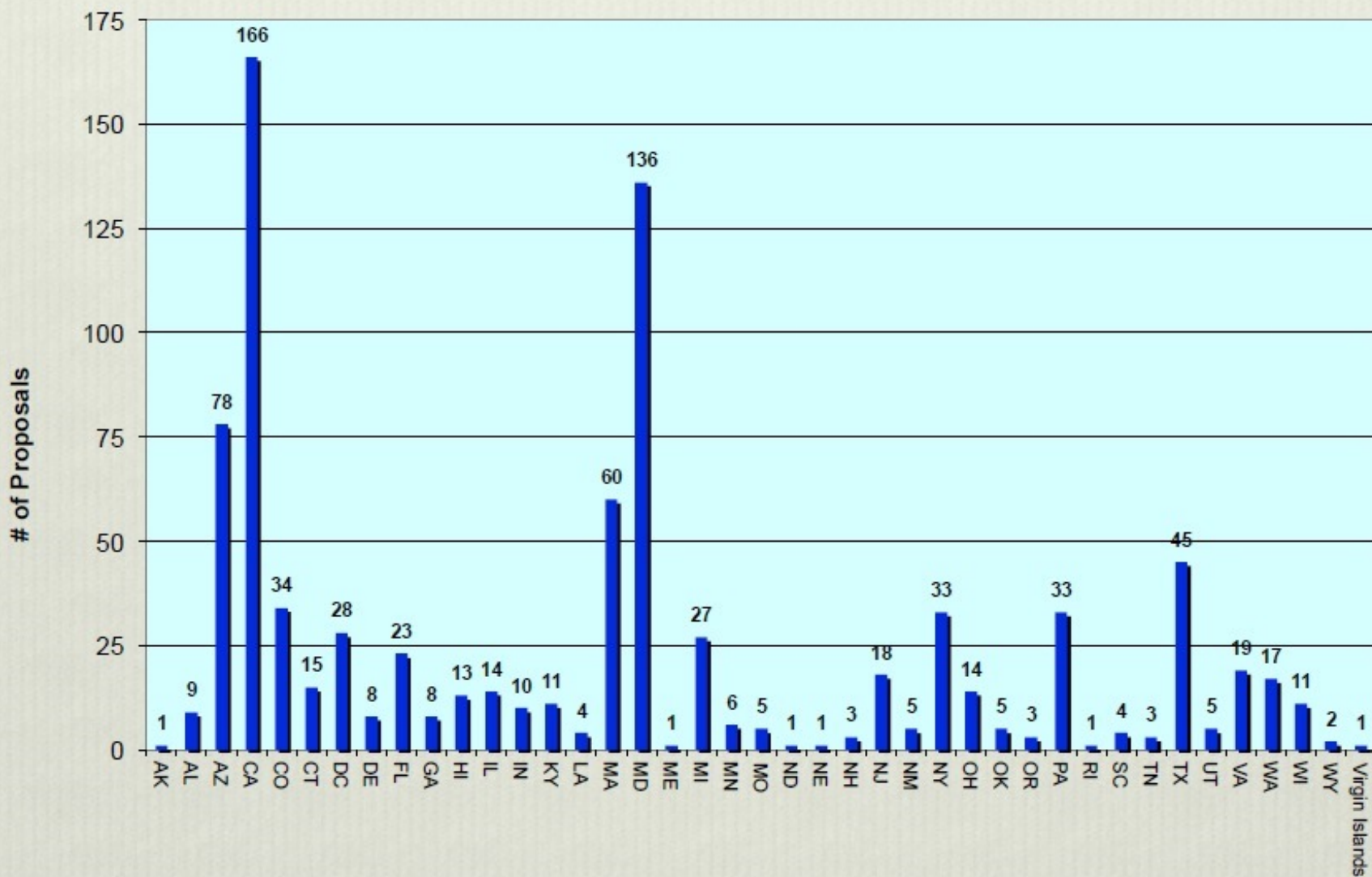


# Proposals by Country (w/out USA)





# Proposals by US State





# New in Cycle 25

- STScI will pre-allocate 1200 orbits for Small proposals in Cycle 26 during the Cycle 25 TAC to reduce some anticipated pressure in the time allocation of the first cycle of JWST.
- Up to 600 ksec of Chandra observing time can be awarded to Large Joint HST-Chandra Programs ( $> 74$  HST orbits +  $> 400$  ksec Chandra).
- The default proprietary period for data from Small and Medium GO programs is 6 months.
- GO proposals to observe Venus will not be permitted in Cycle 25.

# TAC Organization

- The proposal review will be on **June 11 – 16, 2017**.
- The **panels** will discuss Small, Medium, SNAP and Archival proposals until Wednesday noon.
- The **TAC** will meet until Friday late afternoon to allow for sufficient time to discuss the Large, Treasury and Legacy proposals.
- We will have again **one** Solar System panel. Unlike last cycle, the panel will **meet physically** at STScI.
- We will have **four** instead of **three** Galaxies & IGM panels
- There will be a **revised pairing of science categories** in this cycle (IGM with Galaxies instead of Cosmology)



# TAC Organization (cont.)

- TAC Chair: **Catherine Cesarsky** (CEA, Paris)
- Revised panel structure in Cycle 25:
  - 16 panels organized by science category
  - 1 single panel for Solar System
  - 2 mirror panels for Planets and Planet Formation
  - 3 mirror panels for Stellar Physics
  - 2 mirror panels for Stellar Populations
  - 4 mirror panels for Galaxies & IGM
  - 2 mirror panels for Black Holes and Hosts
  - 2 mirror panels for Cosmology
- Each panel has 9 panelists and a Chair. (Two panels have 8 panelists.)



# Available Orbits in Cycle 25

- Roughly **4750** orbits available for Cycle 25 + pre-allocated Cycle 26 GO proposals
- Break-down:
  - **1100** orbits for the TAC (Large and Treasury)
  - **1800 + 1200 (C26 pre-allocation)** orbits for the 16 Panels (Regular GO with <35 orbits)
  - **650** orbits for medium-sized proposals (35 – 74 orbits)

# TAC Process: Medium Proposals (no change)

- Orbits for Medium proposals come from a pool which is separate from that of the Small proposals.
- Medium proposals will be discussed exclusively by the panels. The TAC will be informed of the panel recommendations.
- Each panel will rank the Medium proposals together with all other proposals in their panel.
- If a Medium proposal is ranked above the cut-off for regular proposals it may be considered for acceptance and supported by the separate orbit pool
  - Panels may not arbitrarily raise the ranking of Medium proposals to meet this criterion
- If more than one Medium proposal is ranked above the cut-off line, a panel may recommend these proposals using orbits from their Small proposal pool.
- Cross-panel discussions will be performed by the mirror panel chairs during breakfast.



# TAC Process

- Each proposal receives **preliminary grades from 6 panelists only** (instead of from all) to reduce the workload
- Two panelists will be assigned as reviewers to each proposal when the proposals are distributed. The assignment of Reviewer A vs. B will be made after the result of the triage is known in order to balance the number of A and B reviews for each panelist.
- Preliminary grades are due 10 days prior to the meeting. The triage list will be made available to the panel shortly thereafter so that the panelists can read any proposal they have not graded in more detail.
- During the actual panel meeting all panelists (except for the Chair) will vote.

# TAC Process (cont.)

- TAC proposals will also be sent to **four additional external reviewers** (up from three) who are not TAC members.
- These reviewers are typically previous panelists who are experts in the field.
- The reviewers will comment on the strengths and weaknesses of the proposal and the timeliness of the science.
- The reviews will be provided to the TAC reviewers in support of their own assessment.