

Cycle 18 Results and Cycle 19 Preparations

1 November 2010

Cycle 18 Results

Summary Results

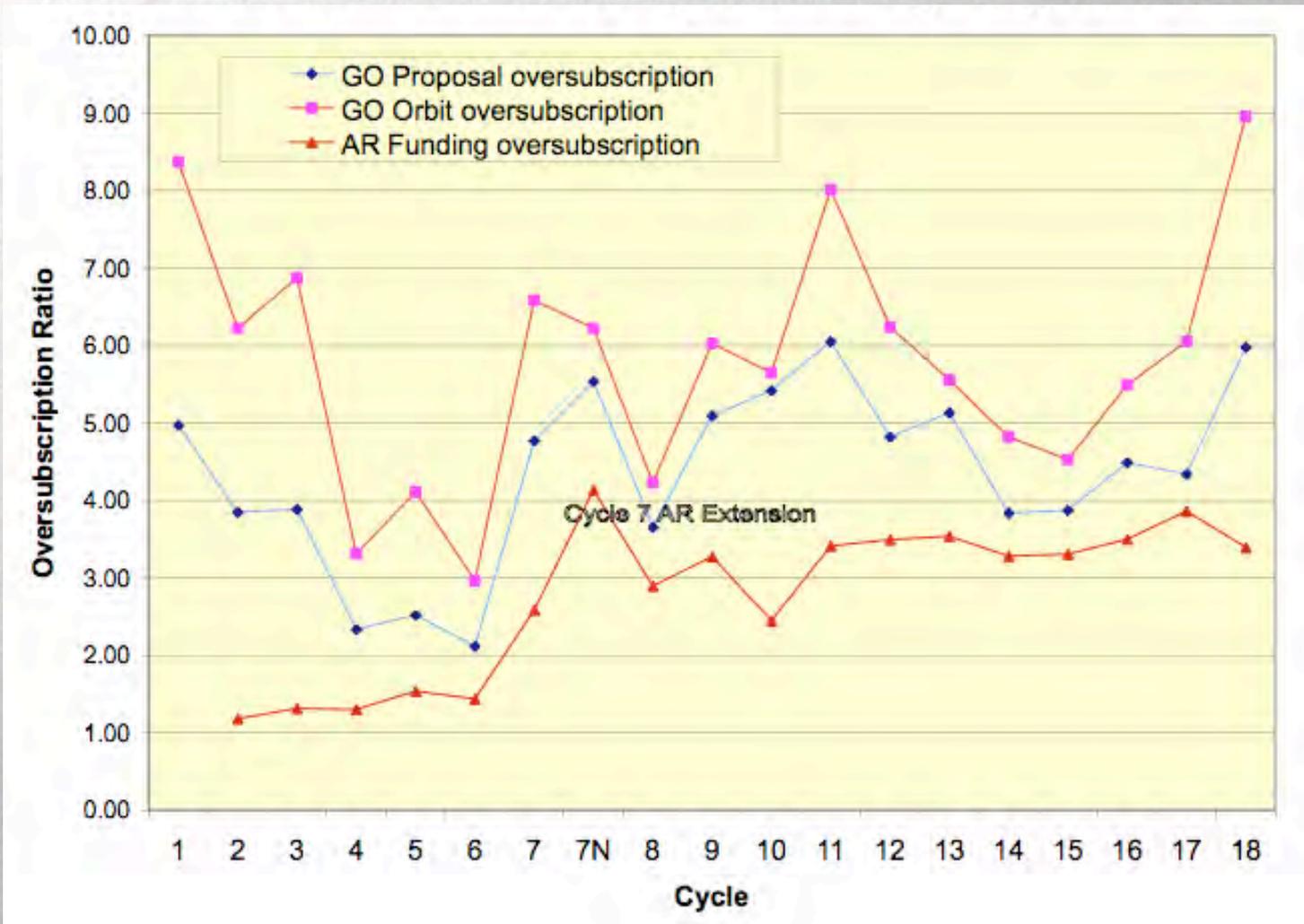
<u>Proposals</u>	<u>Requested</u>	<u>Approved</u>	<u>% Accepted</u>	<u>ESA Accepted</u>	<u>ESA % Total</u>
General Observer	872	146	16.7%	30	20.5%
Snapshot Archival Research	51	9	17.6%	3	33.3%
AR Legacy	75	26	34.7%	0	
Theory	10	2	20.0%	0	
<u>Total</u>	<u>1051</u>	<u>196</u>	<u>18.6%</u>	<u>33</u>	<u>16.8%</u>
Primary Orbits	23096	2578	11.2%	382	14.8%

2578 Approved does not include 16 Calibration orbits (9 Prime + 7 Internals)

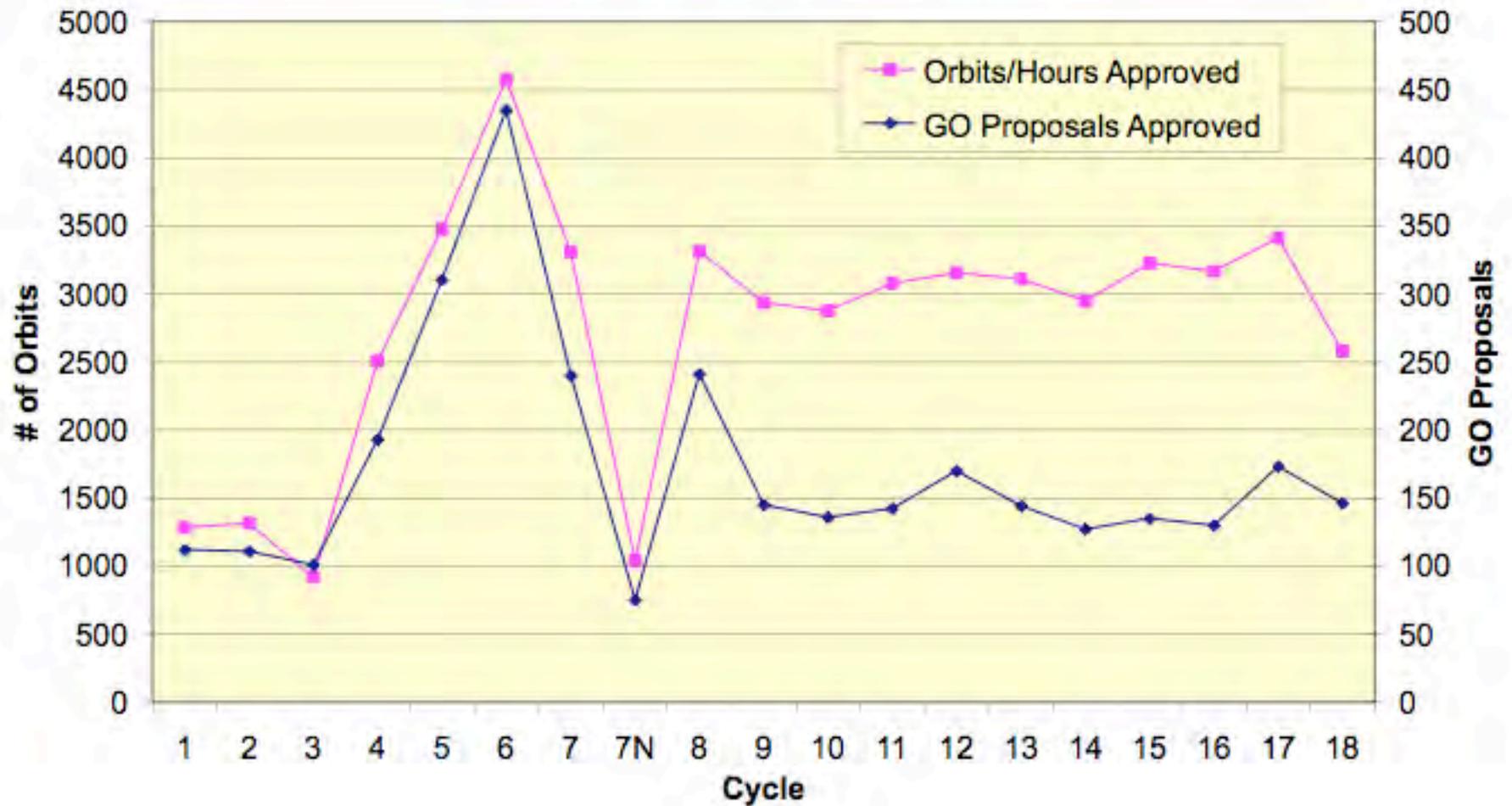
Programs Recommended by the TAC

ID	Resources	First Name	Last Name	Institution	Title
0036	146	Thomas	Ayres	University of Colorado at Boulder	Advanced Spectral Library Project: Cool Stars
0375	115	Drake	Deming	NASA Goddard Space Flight Center	The Atmospheric Structure of Giant Hot Exoplanets
0615	129	Jason	Tumlinson	Space Telescope Science Institute	How Dwarf Galaxies Got That Way: Mapping Multiphase Gaseous Halos and Galactic Winds
0649	248	Pieter	van Dokkum	Yale University	3D-HST: A Spectroscopic Galaxy Evolution Treasury
0100	280 P-Pars	Matthew	Malkan	University of California - Los Angeles	WFC3 Infrared Spectroscopic Parallel Survey (WISP): A Survey of Star Formation Across Cosmic
0261	205 P-Pars	Hao-Jing	Yan	The Ohio State University Research Foundation	Hubble Infrared Pure Parallel Imaging Extragalactic Survey (HIPPIES)
0898	\$ 168,000	Dean	Hines	Space Science Institute	PRONOUNCED - Polarimetry Reduction Of NICMOS Observations Using New Calibrations and
0923	\$ 100,000	Max	Mutchler	Space Telescope Science Institute	The Planet Pipeline: data curation and mining of Solar System images from WFPC2

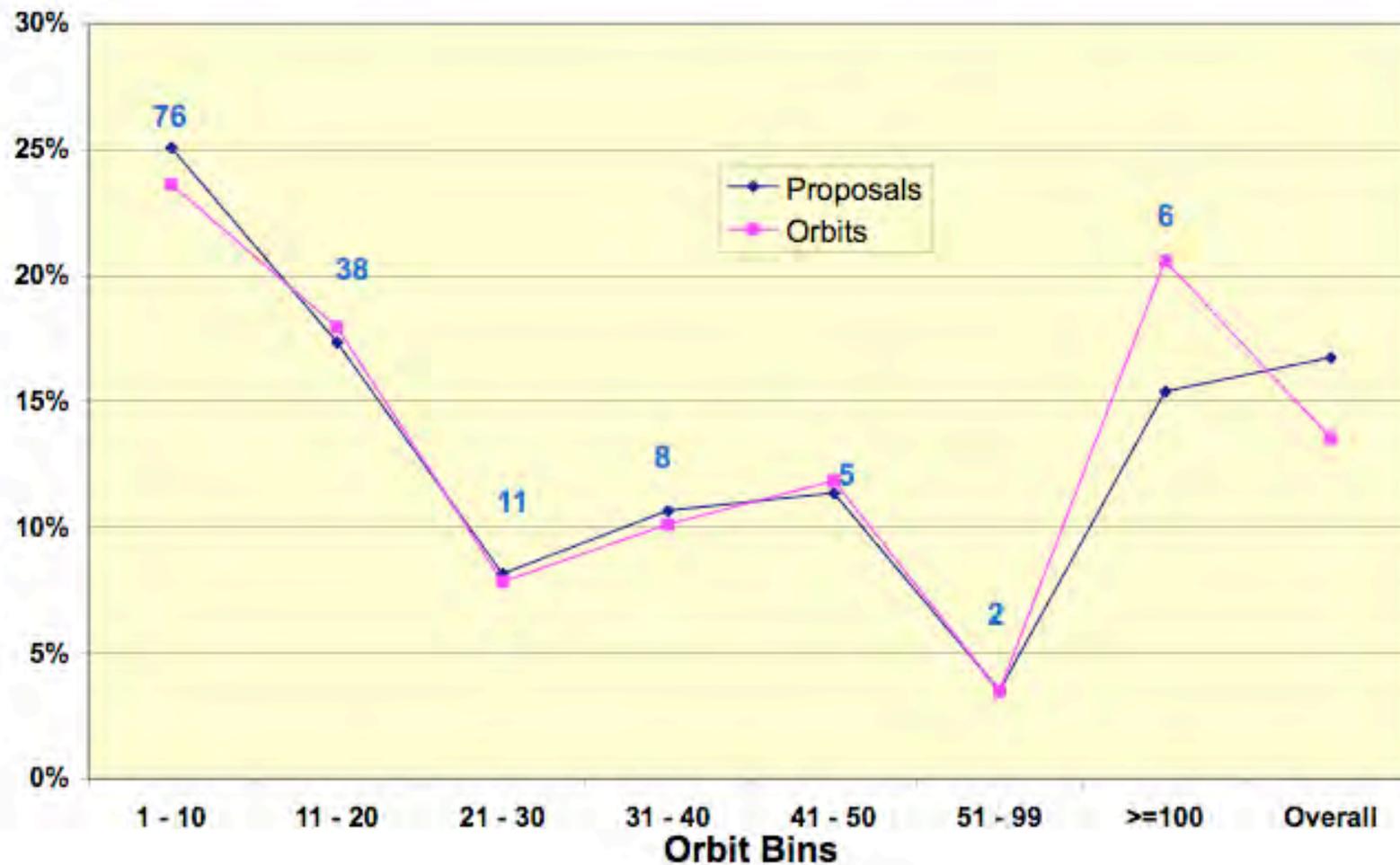
Oversubscription by Cycle



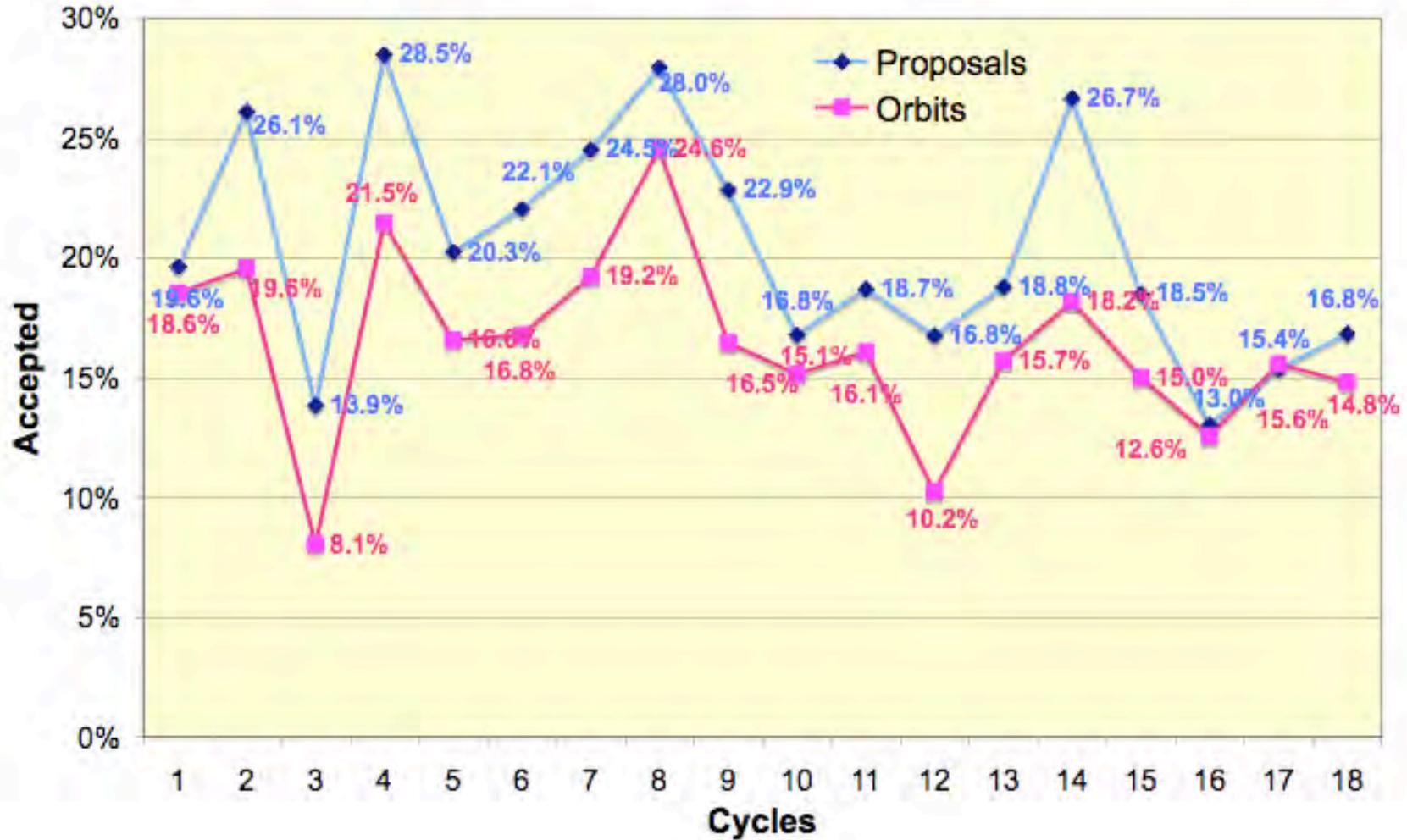
Approved Orbits and Proposals by Cycle



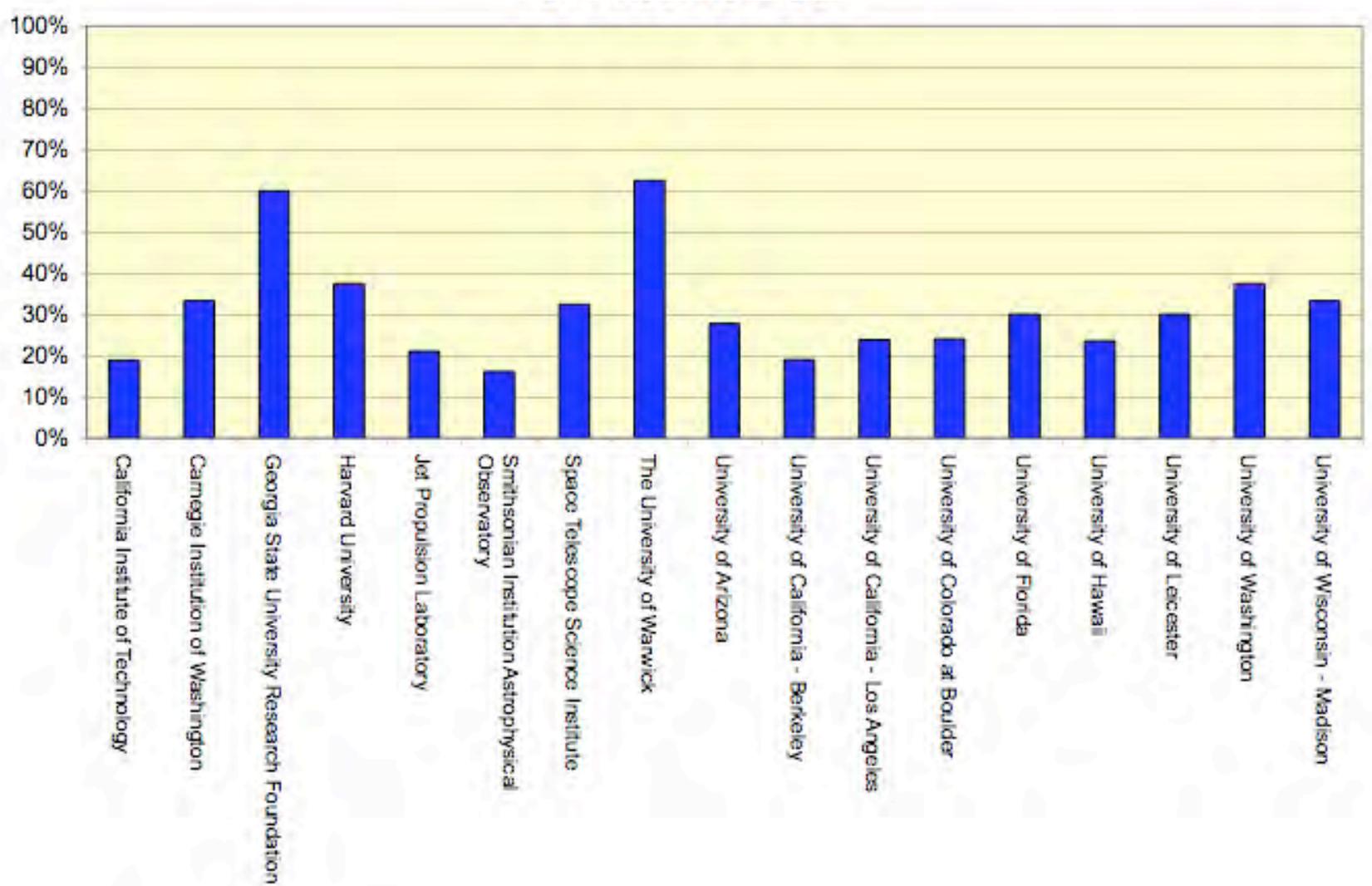
Acceptance Fraction by Size



ESA Acceptance Fraction

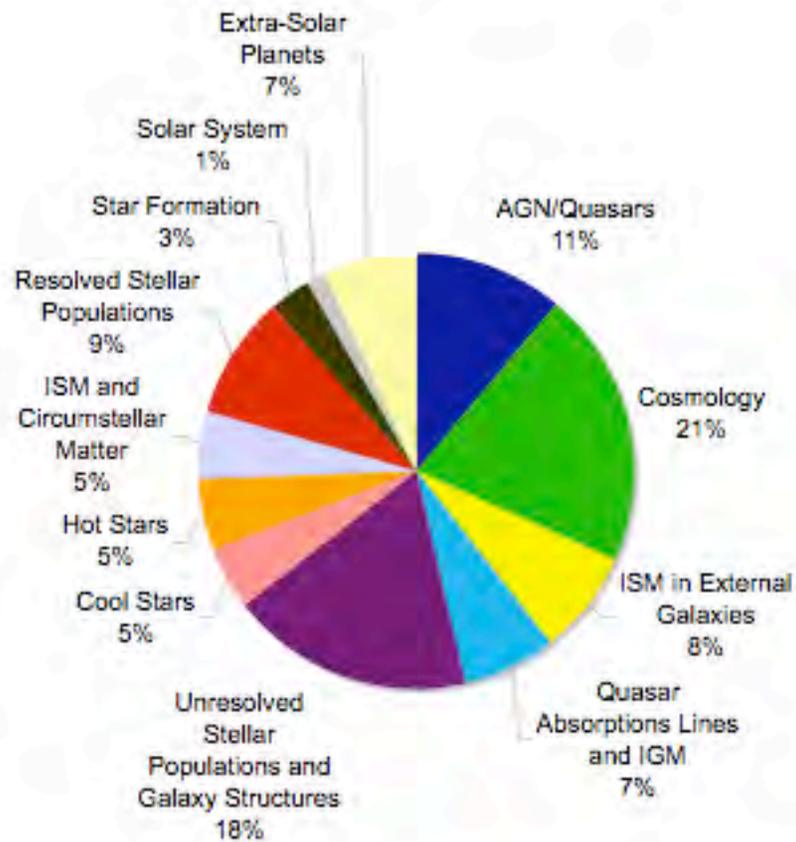


Institutional Acceptance Fraction

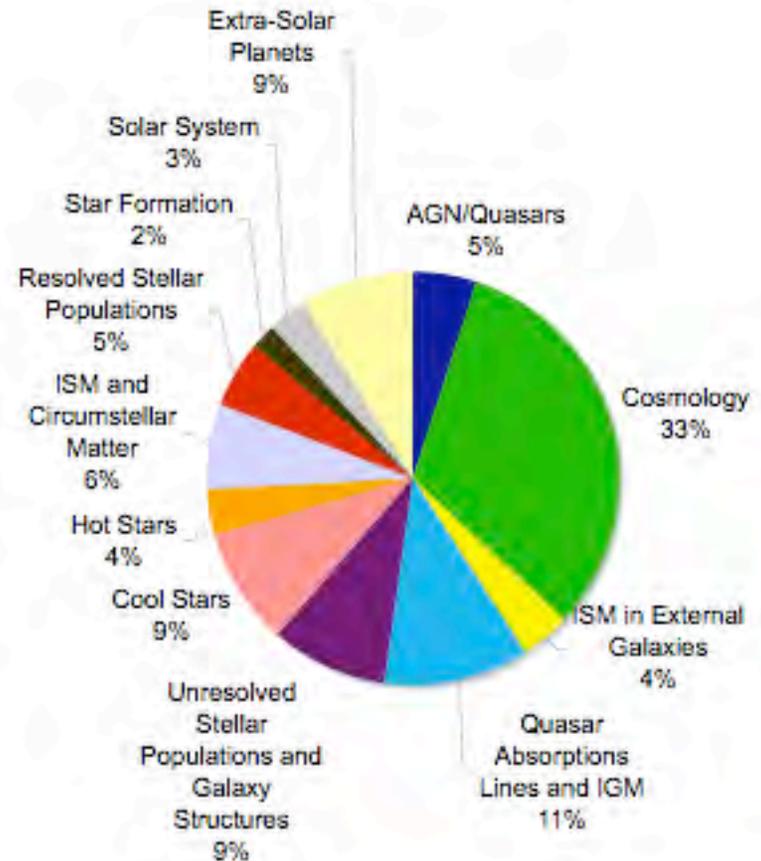


Distribution of Science Categories

Submitted Orbits by Science Category



Approved Orbits by Science Category



Instrument Usage

Configuration	Mode	Prime %	Coordinated		Total	Instrument Prime Usage	Instrument + Coordinated Parallel Usage	Prime Parallel Usage	Snap Usage
			Parallel %	Total					
ACS/SBC	Imaging	3.0%	0.0%		2.4%			0.0%	0.0%
ACS/WFC	Imaging	5.7%	46.6%		13.9%			21.1%	26.7%
ACS/WFC	Ramp Filter	0.2%	0.0%		0.2%	8.9%	24.2%	0.0%	0.0%
ACS/WFC	Spectroscopy	0.0%	38.4%		7.7%			0.0%	0.0%
COS/FUV	Spectroscopy	20.8%	0.0%		16.6%			0.0%	29.4%
COS/NUV	Imaging	0.0%	0.0%		0.0%	23.1%	18.4%	0.0%	0.0%
COS/NUV	Spectroscopy	2.3%	0.0%		1.8%			0.0%	0.0%
FGS	POS	0.2%	0.0%		0.2%	0.2%	0.2%	0.0%	0.0%
FGS	TRANS	0.0%	0.0%		0.0%			0.0%	0.0%
NIC1	Imaging	0.0%	0.0%		0.0%			0.0%	0.0%
NIC2	Imaging	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%
NIC3	Imaging	0.0%	0.0%		0.0%			0.0%	0.0%
NIC3	Spectroscopy	0.0%	0.0%		0.0%			0.0%	0.0%
STIS/CCD	Imaging	4.7%	0.0%		3.7%			0.0%	0.0%
STIS/CCD	Spectroscopy	5.5%	0.0%		4.4%			0.0%	0.0%
STIS/FUV	Imaging	0.2%	0.0%		0.2%	26.2%	20.9%	0.0%	0.0%
STIS/FUV	Spectroscopy	10.1%	0.0%		8.1%			0.0%	19.4%
STIS/NUV	Imaging	0.3%	0.0%		0.2%			0.0%	0.0%
STIS/NUV	Spectroscopy	5.4%	0.0%		4.3%			0.0%	0.0%
WFC3/IR	Imaging	6.8%	0.0%		5.5%			50.0%	14.8%
WFC3/IR	Spectroscopy	19.9%	0.0%		15.9%	41.7%	36.3%	28.9%	0.0%
WFC3/UVIS	Imaging	14.9%	15.0%		15.0%			0.0%	9.7%
WFC3/UVIS	Spectroscopy	0.0%	0.0%		0.0%			0.0%	0.0%

	Approved GO Prime		Imaging	Spectroscopy	FGS	
			41.06%	58.79%	0.2%	
Total GO Usage	ACS	COS	FGS	NICMOS	STIS	WFC3
	23.8%	16.0%	0.1%	0.0%	18.1%	41.9%

Approved Targets of Opportunity

Proposal	ToO Orbits	Activations	Activations				
			< 48 Hours	2 - 5 Days	< 10 Days	10 - 15 Days	>= 14 Days
0042.schwarz	3	1	0				1
0343.hammel	3	1	0	1			
0396.ellis	50	5	0	5			
0503.tanvir *	18	3	0	2			1
0630.kirshner	10	1	0	1			
0784.quimby	12	3	0			3	
0788.benecchi	6	3	0				3
Total	102	17	0	9	0	3	5

Cycle 19 Proposal Review Schedule

- *12/2/10*: Call for Proposals release (*date tentative*)
- *2/25/11*: Phase I Proposal deadline
- *3/25/11*: Proposals made available to reviewers
- *5/12/11*: Preliminary grades due
- *5/16/11 – 5/20/11*: Panels and TAC meet
- *June 2011*: Notifications sent out

Cycle 19 Features

- Cycle 19 will start on **10/1/11** and end on **9/30/12**
- All six instruments will be offered (if operational):
ACS, COS, FGS, NICMOS, STIS, WFC3
- The same proposal categories as in C18 will be offered
- Joint Chandra-HST programs: up to **100** orbits
- Joint Spitzer-HST programs: up to **60** orbits

NICMOS Status

- Proposers wishing to use the unique capabilities of NICMOS should assume that NICMOS will operate nominally in Cycle 19.
- This will be the only planned call for new NICMOS proposals.
- NICMOS proposals will be judged on their scientific merit alongside other Cycle 19 proposals.
- A NICMOS restart may be attempted if there is compelling science demand for NICMOS observations. The Cycle 19 TAC recommendations will factor strongly into the decision about whether or not to attempt the recovery of the NCS.

Targets of Opportunity

- Two categories: **disruptive** ToO programs ($t < 14$ days), which are rapid-response observations that require revision of an existing HST observing schedule; and **non-disruptive** ToOs, which can be accommodated within the standard scheduling process.
- There will be no limits on the number of non-disruptive ToOs in Cycle 19
- There will be **not more than 10 disruptive ToOs** in Cycle 19, and **not more than 1 with $t < 2$ days**.
- *There will be no orbit penalty for proposing a ToO with $t < 2$ days (previously: 15 orbit surcharge).*

Cycle 19 Tentative Orbit Allocation

- Roughly **2800** orbits available for Cycle 19 GO's
- Break-down: 1900 orbits for panels; 400 as subsidy for medium sized proposals; 500 for the TAC
- In addition: **750** orbits reserved for MCT proposals
- In addition: **100** orbits reserved for COS GTO's
- In addition: **1100** orbits C18 carry-over, calibration, DD, etc.

Medium Sized Proposals

- Medium sized proposals request 40 – 99 orbits
- Panels tend to be reluctant to recommend medium sized proposals because of the orbit cost
- Approach 1: create an **new proposal category** and have them reviewed by a separate panel
- Approach 2: keep them with regular GO proposals but **allocate a fixed orbit number** (Cycle 18)
- Approach 3: **provide a subsidy** with a progressive increase (prior to Cycle 18)
- Feedback welcome; we are currently favoring 2 or 3

Panel Structure

- Regular GO programs: **14 panels** (same number as in C18)
- *Planets and Star Formation 1/2*: local and distant solar systems, exoplanets, star formation
- *Stars 1/2/3*: cool and hot stars in any stellar evolutionary phase
- *Stellar Populations 1/2*: resolved stellar populations in the Galaxy and the nearby universe
- *Galaxies 1/2/3*: stellar content of galaxies, ISM in galaxies, dynamics, galaxy morphology, galaxy evolution
- *QSO and IGM 1/2*: QSOs, IGM, QSO absorption lines
- *Cosmology 1/2*: cosmology, lensing, GRB, deep surveys

Panel Structure (cont.)

- Expect roughly **75** proposals per panel
- All panels will have roughly the same size
- Large/Treasury proposals will be reviewed by the TAC
- C18: 67 proposals with the TAC
- C19: number may be slightly lower because of fewer resubmitted MCT proposals

Panel Structure (cont.)

- Chairs for all 14 panels (plus 3 TAC At-Large members) have been selected and have agreed to serve
- Panel Chairs and At-Large members will form the TAC chaired by **James Graham**
- Each panel will have 8 Panelists and the Chair
- Candidate Panelists are currently being contacted
- Pay particular attention to **diversity** and balance between **senior** and **junior** astronomers