Cycle 19 Preparations

STUC

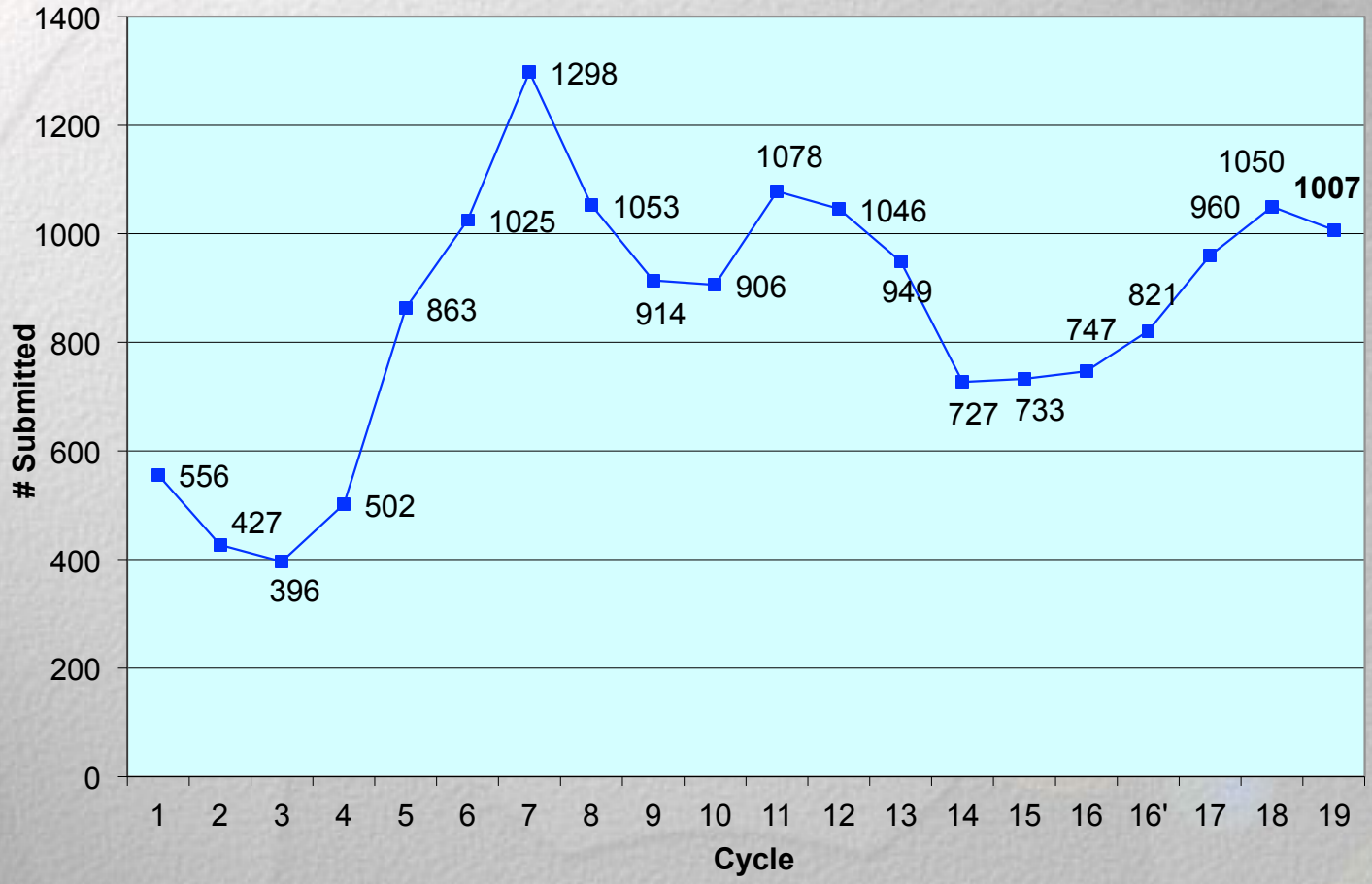
6 April 2011

- Cycle 19 Proposal Statistics
- Cycle 19 Panel and TAC Preparations
- Orbit Allocation and Distribution
- Review Process of Regular, Treasury and Large Proposals
- XMM/HST Joint Program

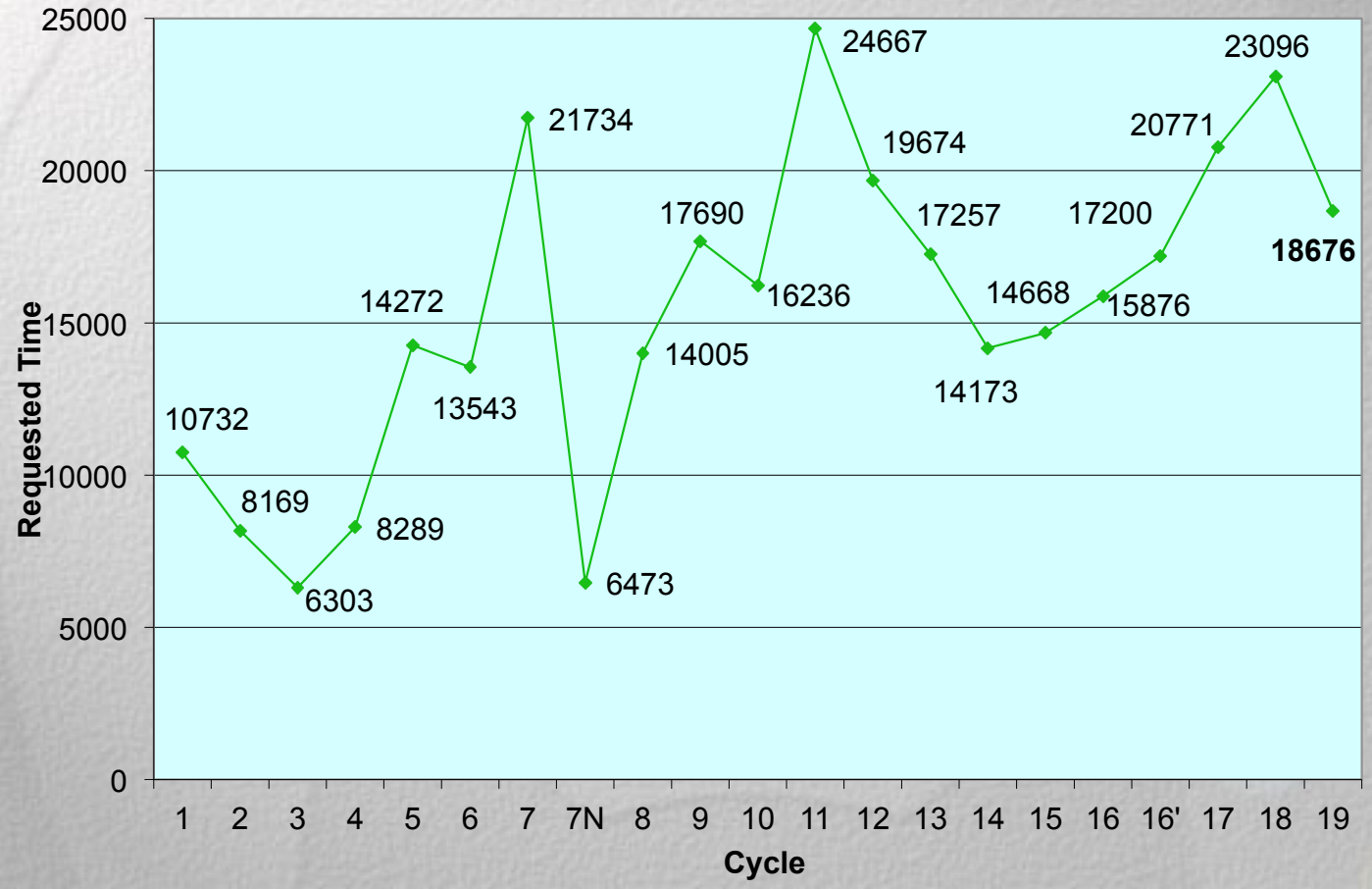
Cycle 19 *(Cycle 18)* Proposal Statistics

Total Proposals	**1007** *(1051)*	**Cycle 19**	**Cycle 20**	**Cycle 21**
GO	798 *(872)*	18,676 *(23096)*	338 *(622)*	284 *(541)*
SNAP	65 *(51)*	6,072 *(4861)*		
Archival Research	Small	Medium	Legacy	
Regular	17	50	10	
Theory	39	27	0	
Total	57	77	10	144 *(127)*
ESA	200 *(197)*			
ESA GO	178 *(189)*	3,950 *(4516)*	orbits	
ESA Snaps	19 *(8)*	1,708 *(569)*	targets	
ESA AR	3 *(0)*			
			ESA	Orbits
GO Large	33 *(41)*	4,361 *(4823)*	4 *(11)*	462 *(1276)*
GO Treasury	11 *(12)*	1,582 *(1761)*	4 *(3)*	534 *(325)*
Pure Parallel	4 *(5)*	925 *(915)*	0 *(0)*	0 *(0)*

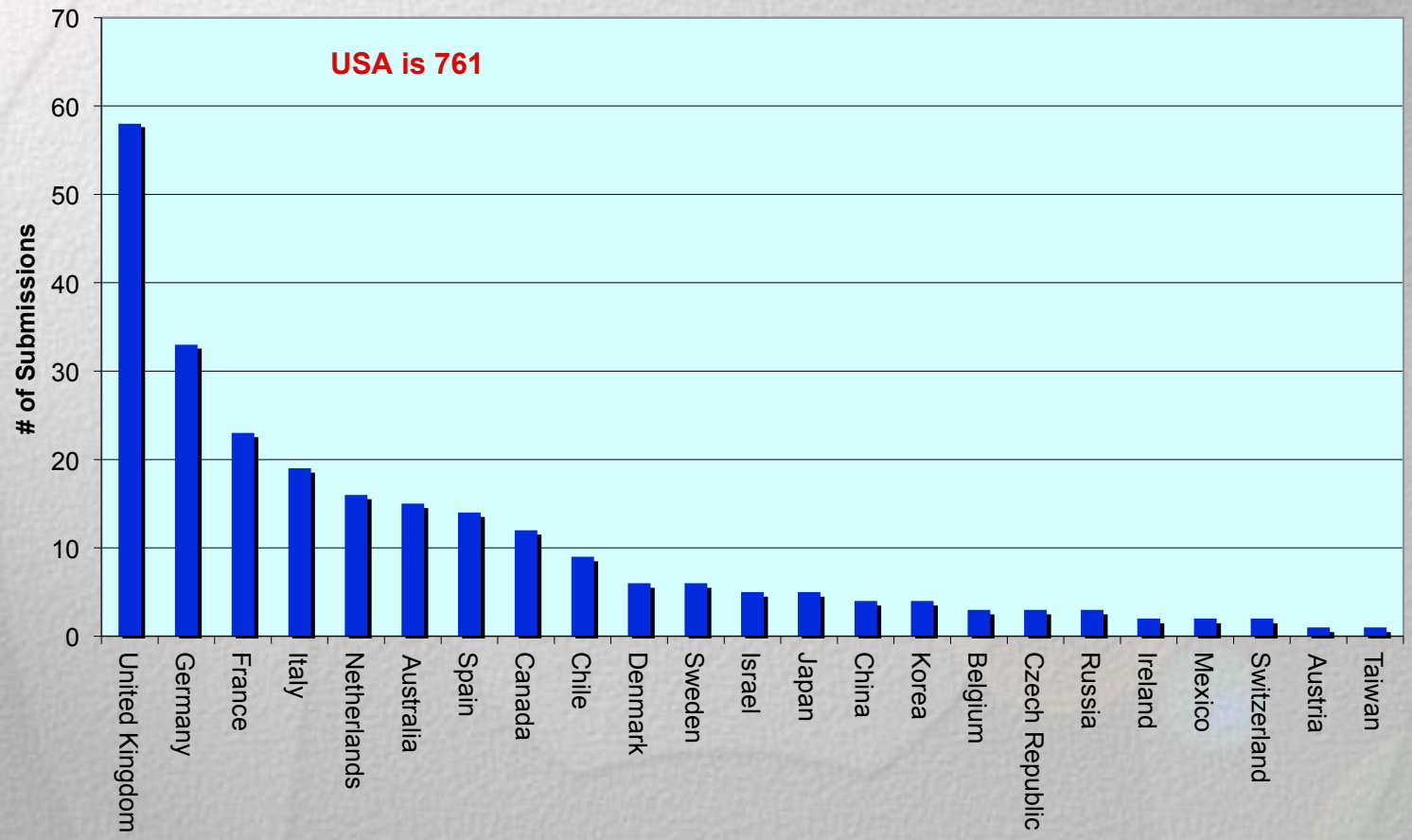
Proposals by Cycle



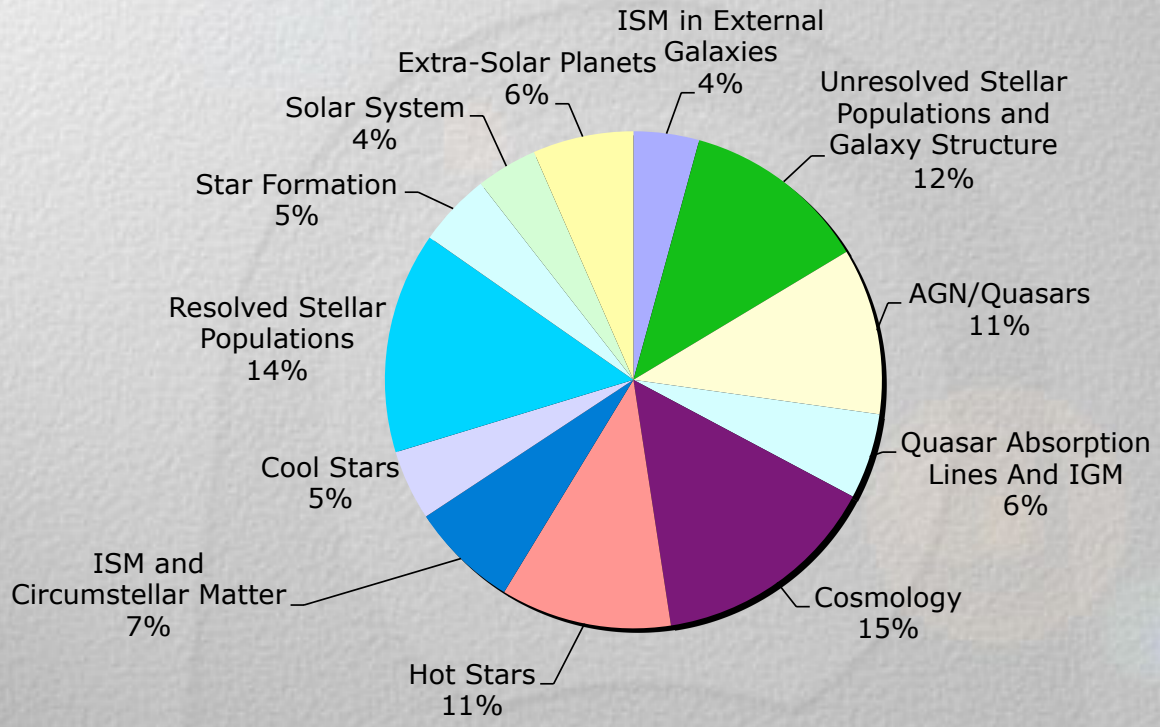
Orbits by Cycle



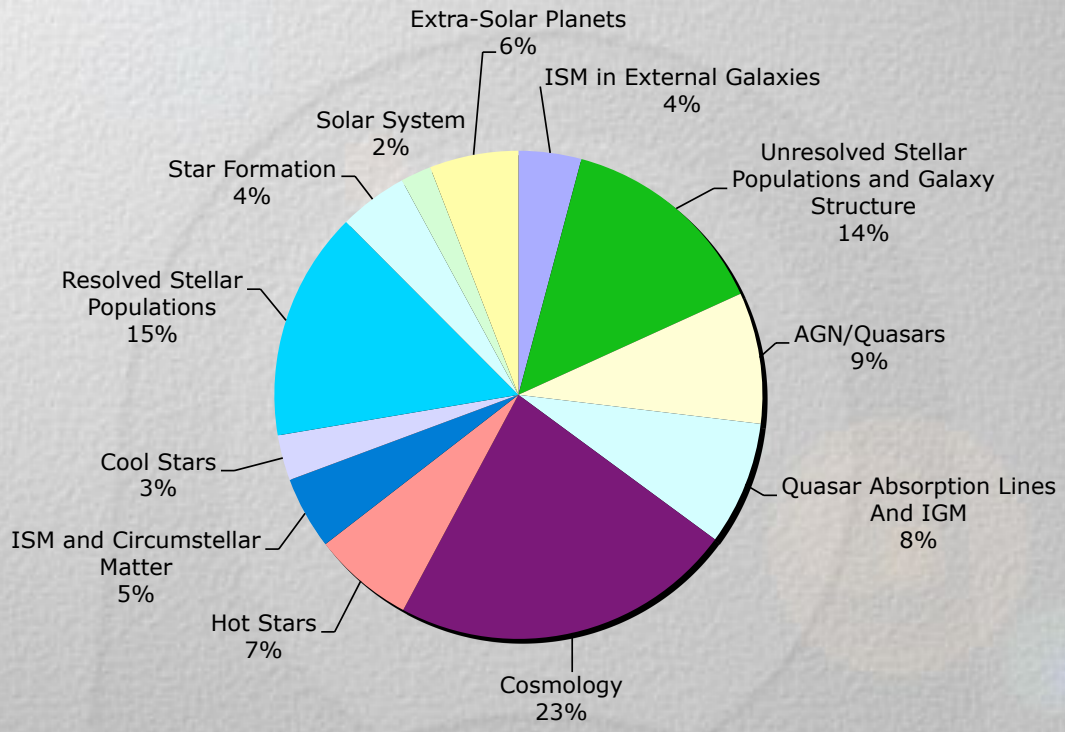
Proposals by Country (without USA)



Science Categories by Proposal



Science Categories by Orbits



Instrument Details

Configuration	Mode	Prime %	Coordinated Parallel %	Total	Instrument Prime Usage	Instrument Prime + Coordinated Parallel Usage	Pure Parallel Usage	Snap Usage
ACS/SBC	Imaging	1.1%	0.0%	0.9%			0.0%	0.0%
ACS/WFC	Imaging	19.6%	53.4%	28.1%			12.0%	18.9%
ACS/WFC	Ramp Filter	0.8%	0.0%	0.6%	21.6%	30.5%	0.0%	1.1%
ACS/WFC	Spectroscopy	0.1%	3.4%	0.9%			0.0%	0.0%
COS/FUV	Spectroscopy	13.9%	0.0%	10.4%			0.0%	8.6%
COS/NUV	Imaging	0.1%	0.0%	0.1%	16.2%	12.1%	0.0%	0.0%
COS/NUV	Spectroscopy	2.2%	0.0%	1.6%			0.0%	0.0%
FGS	POS	1.2%	0.0%	0.9%	1.4%	1.0%	0.0%	0.0%
FGS	TRANS	0.2%	0.0%	0.1%			0.0%	1.6%
NIC1	Imaging	0.5%	0.1%	0.4%			0.0%	1%
NIC2	Imaging	0.6%	0.6%	0.6%	1.9%	1.7%	0.0%	0.0%
NIC3	Imaging	0.7%	0.4%	0.6%			0.0%	0.0%
NIC3	Spectroscopy	0.1%	0.0%	0.1%			0.0%	0.0%
STIS/CCD	Imaging	1.0%	0.0%	0.7%			0.0%	0.9%
STIS/CCD	Spectroscopy	5.0%	0.0%	3.8%			0.0%	2.5%
STIS/FUV	Imaging	0.4%	0.0%	0.3%	12.3%	9.2%	0.0%	0.0%
STIS/FUV	Spectroscopy	3.8%	0.0%	2.9%			0.0%	4.0%
STIS/NUV	Imaging	0.0%	0.0%	0.0%			0.0%	0.0%
STIS/NUV	Spectroscopy	2.0%	0.0%	1.5%			0.0%	0.0%
WFC3/IR	Imaging	18.9%	5.5%	15.6%			48.0%	23.8%
WFC3/IR	Spectroscopy	3.1%	0.1%	2.4%	46.6%	45.5%	16.0%	2.0%
WFC3/UVIS	Imaging	24.3%	36.5%	27.4%			24.0%	34.8%
WFC3/UVIS	Spectroscopy	0.2%	0.0%	0.2%			0.0%	0.9%
		100%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%

Other Proposal Categories

- 8 Calibration proposals (3 AR & 5 GO)
- 29 Targets of Opportunity
- 16 Disruptive and 13 Non-Disruptive (< or >2 weeks)

Archival Research	Small	Medium	Legacy
Regular	17	50	10
Theory	39	27	0
Total	57	77	10

Observatory	Props	Requested Time	Units	HST Orbits
Chandra	13	666.5	Ksecs	345
NOAO	7	15.05	Nights	174
Spitzer	8	122.1	Hours	567

HST Joint Program – Previous Cycles

Cycle	HST	Chandra	HST	Spitzer	NOAO
	Orbits	ksec	Orbits	Hours	Nights
9	90	328			
10	51	345			
11	43	170			
12	77	115			
13	60	85			
14	25	130	18	19.1	2
15	59	60	74	31.8	
16	62	89	1	203.1	
17	99	110			5
18	84	170	24	12	6

C19 Panel Preparations

- Regular GO programs: 14 panels
- *PSF 1/2:* local and distant solar systems, exoplanets, star formation
- *Stars 1/2/3*: cool+hot stars, late stages, low-mass stars
- *StPops 1/2*: resolved stellar populations, ISM
- *Galaxies 1/2/3:* stellar content of galaxies, ISM in galaxies, dynamics, galaxy evolution
- *AGN 1/2*: AGN, QSO, IGM, QSO absorption lines
- *COS 1/2*: cosmology, lensing, GRB, galaxy clusters

Break-down of proposals by panel

PANEL	TOTAL	GO	AR	SNAP	ORBITS	GOS>=40	ORBS>=40	TARGETS
AGN1	62	33	19	10	825	5	292	1008
AGN2	71	54	11	6	1112	7	387	706
COS1	64	47	13	4	1036	6	332	296
COS2	67	50	14	3	1086	4	215	507
GAL1	65	49	10	6	1043	2	94	593
GAL2	58	46	9	3	927	6	314	174
GAL3	57	47	8	2	1030	6	1325	180
PSF1	65	55	7	3	773	1	96	191
PSF2	67	54	8	5	736	1	45	578
STARS1	66	59	3	4	669	2	154	339
STARS2	68	56	6	6	742	3	144	387
STARS3	70	63	5	2	821	2	89	85
STPOPS1	88	72	11	5	1184	2	109	394
STPOPS2	80	65	10	5	1072	2	100	337
TAC	59	48	10	1	5620	0	0	350
	1007	798	144	65	18676	49	3696	6125

Cycle 19 Panel Preparations (cont.)

- TAC Chair: James Graham (Toronto)
- Website: http://www.stsci.edu/institute/org/spd/panel/cycle19-panel.html?printable=1
- Panelists obtained proposals via download from website
- Preliminary grades due 5/11/2011

Orbit Allocation and Distribution

- Total number of orbits available for allocation: 2600
- This is the same number as in C18
- Smaller than in C17 (3300) because of MCTPs and C18 proposal tail

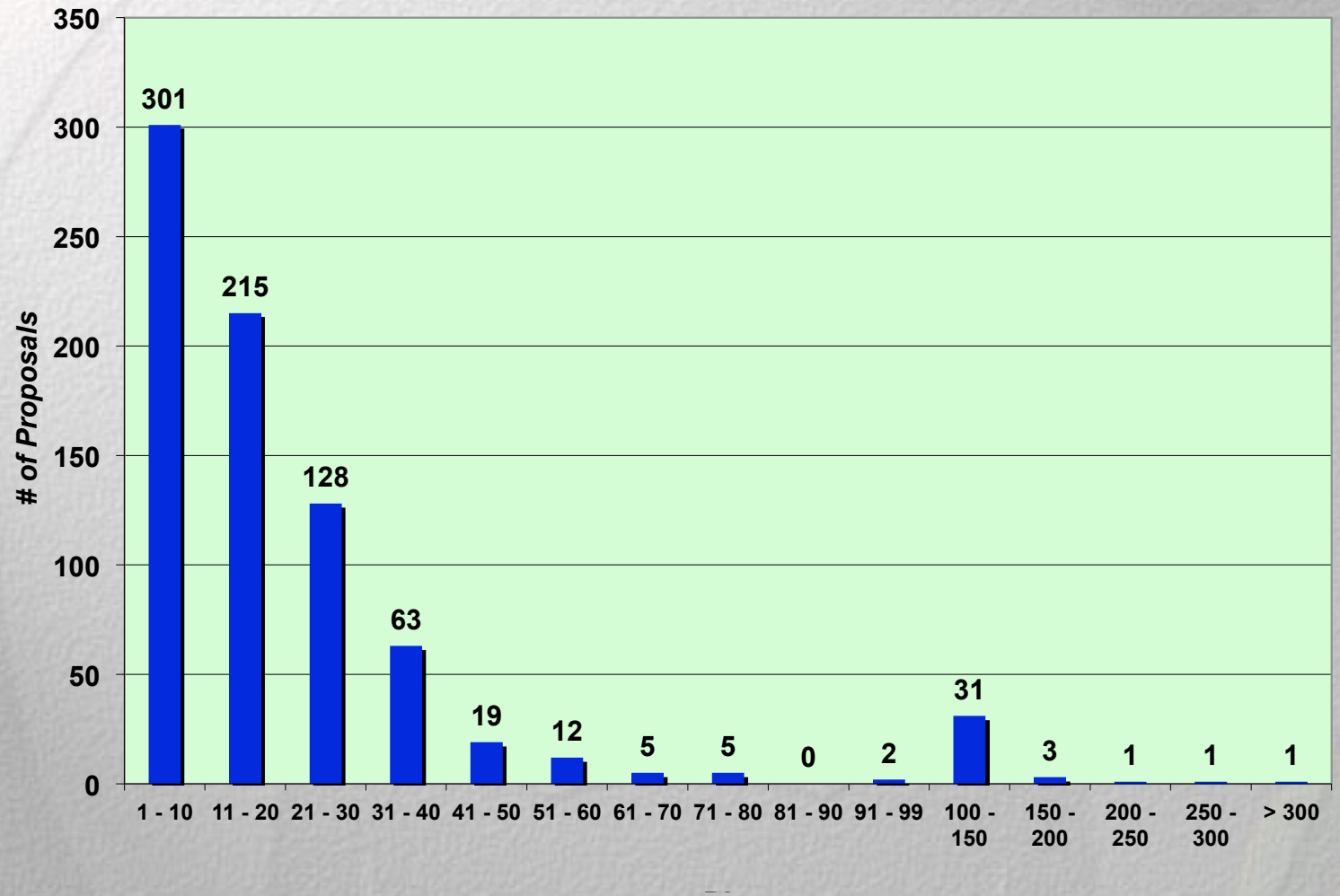
Orbit Allocation and Distribution (cont.)

- Available for TAC (Large, Treasury): 500 orbits
- Available for panels (regular GO): 2100 orbits
- This results in factors of ~8 and 11 orbit oversubscriptions in the panels and the TAC, respectively
- Each panel will have a baseline allocation according to the submitted proposals and the orbits requested in the panel

Review Process of Regular, Treasury and Large Proposals

- Large: > 99 orbits
- Treasury: solves multiple scientific problems with a single, coherent dataset. Usually, but not always Large
- Large and Treasury proposals will be reviewed by the TAC, with input from the panels. Same process as in previous cycle.
- Regular (< 100 orbits) proposals will be reviewed by the panels

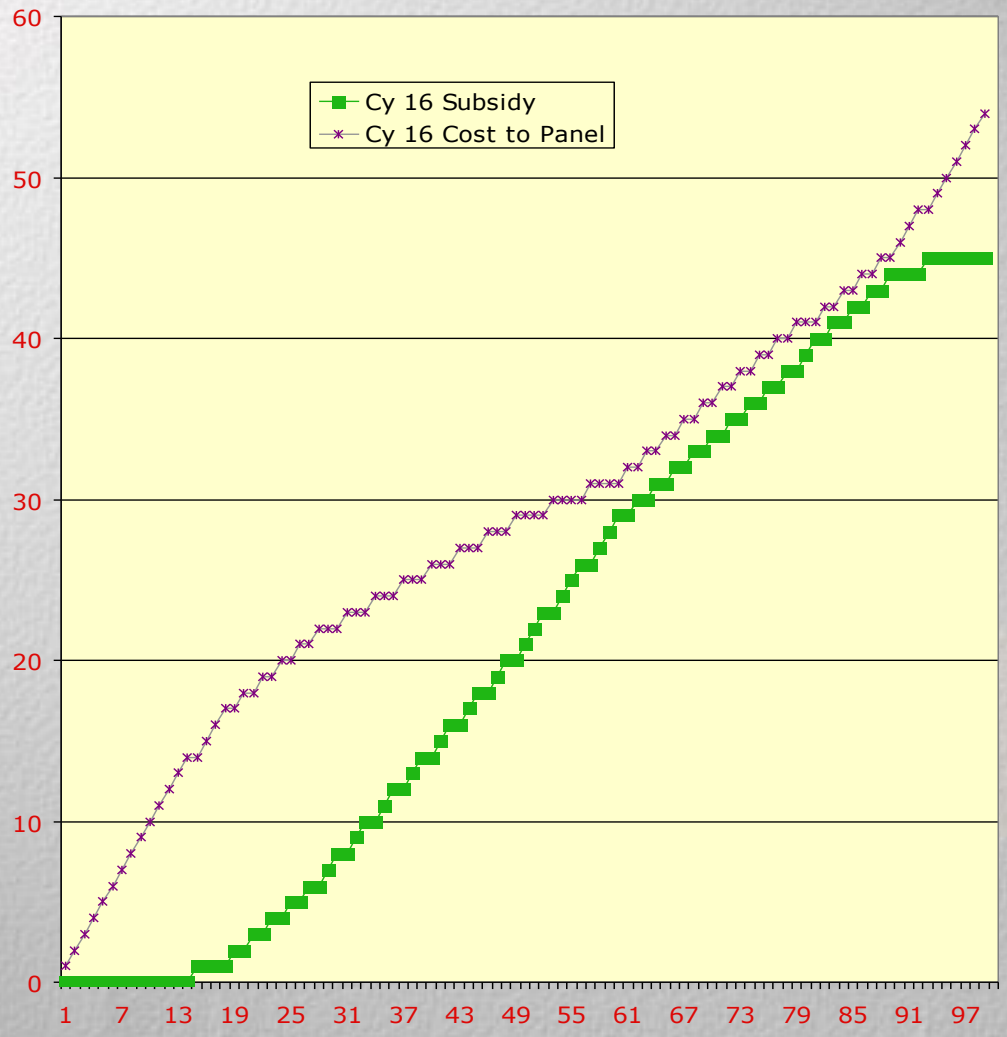
Orbit Bins by Proposal



Review Process of Regular, Treasury and Large Proposals (continued)

- All proposals should have a similar chance of acceptance, independent of proposal size
- In C19 we will again provide a proposal-size dependent subsidy to each panel.
- The subsidy will come out of the total allocation of 2100 orbits for the panels.
- The progression of the subsidy will be similar to the one used in earlier cycles.

Cycle 16 Subsidy



Cycle 16 Subsidy

Orbits	**Cost to Panel**	Orbits	**Cost to Panel**	Orbits	**Cost to Panel**
1	1	36	24	71	37
2	2	37	25	72	37
3	3	38	25	73	38
4	4	39	25	74	38
5	5	40	26	75	39
6	6	41	26	76	39
7	7	42	26	77	40
8	8	43	27	78	40
9	9	44	27	79	41
10	10	45	27	80	41
11	11	46	28	81	41
12	12	47	28	82	42
13	13	48	28	83	42
14	14	49	29	84	43
15	14	50	29	85	43
16	15	51	29	86	44
17	16	52	29	87	44
18	17	53	30	88	45
19	17	54	30	89	45
20	18	55	30	90	46
21	18	56	30	91	47
22	19	57	31	92	48
23	19	58	31	93	48
24	20	59	31	94	49
25	20	60	31	95	50
26	21	61	32	96	51
27	21	62	32	97	52
28	22	63	33	98	53
29	22	64	33	99	54
30	22	65	34		
31	23	66	34		
32	23	67	35		
33	23	68	35		
34	24	69	36		
35	24	70	36		

XMM/HST Joint Program

- X-ray Multi-mirror Mission - Newton
  - European Photon Imaging Camera (EPIC): 0.15-15 keV, 30 sq. armin FOV, 6 arcsec. Resolution
  - Reflection Grating Spectrometer (RGS): R=150-800, 0.33-2.5 keV
  - Optical/UV Monitor (OM): 17 sq. arcmin FOV, 170-650 nm
- Joint NASA/ESA mission
  - ~30-35% of successful proposals have US PIs
  - Successful US PIs can apply for funding via the ADAO program
- XMM supports joint XMM/Chandra programs
  - 400 ksec/400 ksec time swap
  - CXC funding for the Chandra component
- XMM User committee has enquired whether there is interest in instituting a joint XMM/HST program
  - 400 ksec XMM / TBD (60?) orbits
  - Note that HST/Spitzer joint program is currently under-subscribed