Cycle 26 Mid-Cycle Results & Cycle 27 Preparations

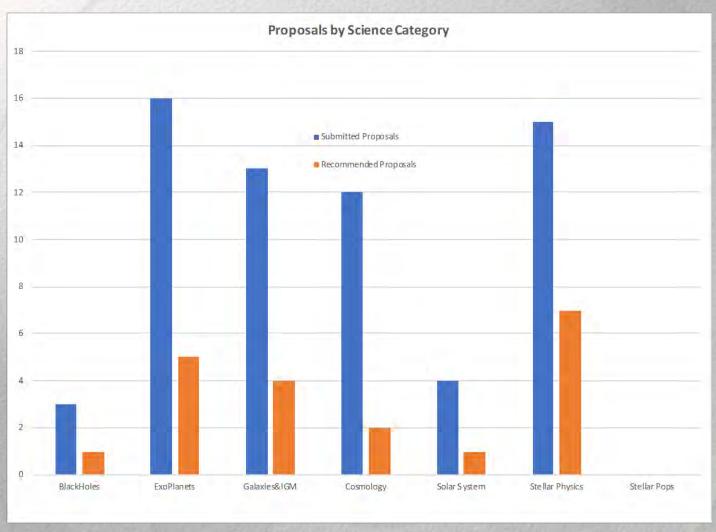
STUC

13 May 2019

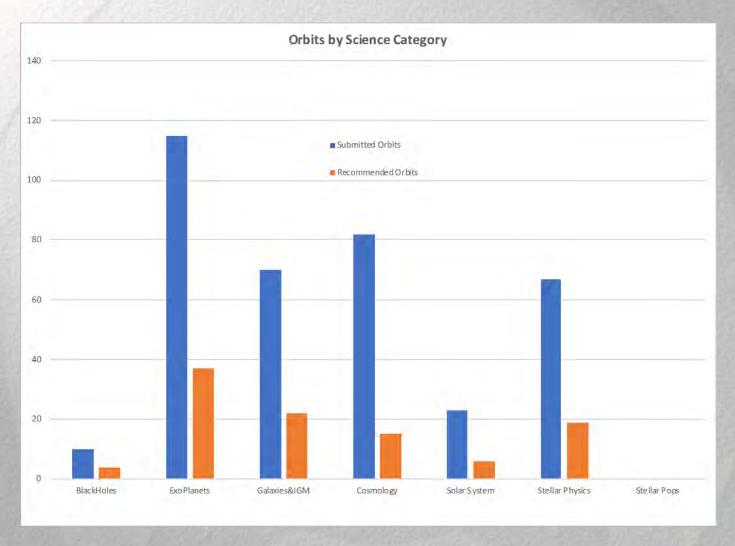
Cycle 26 Mid-Cycle Results

- 63 Proposals Reviewed for 367 Orbits
 - 20 Proposals recommended for 103 orbits
 - Acceptance Rate: 3.2 for proposals and 3.6 for orbits
- Instrument breakdown: ACS (20%), COS (15%), STIS (9%), and WFC3 (56%)
- Imaging (73%) and Spectroscopy (27%)
- ESA acceptance fraction:
 - Pls 35% for proposals and 31% orbits
 - ESA Cols are 45% of the total Cols
- UV Initiative: 25% for Proposals and 26% for Orbits

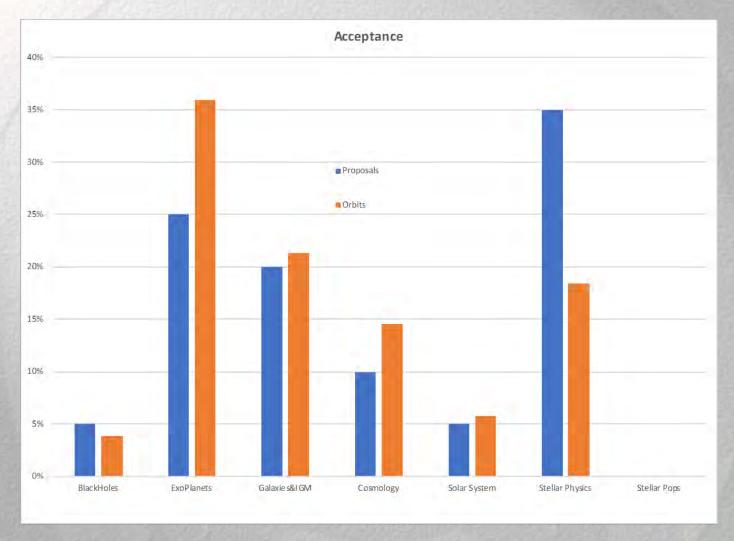
Mid-Cycle Results by Science Category



Mid-Cycle Results by Science Category

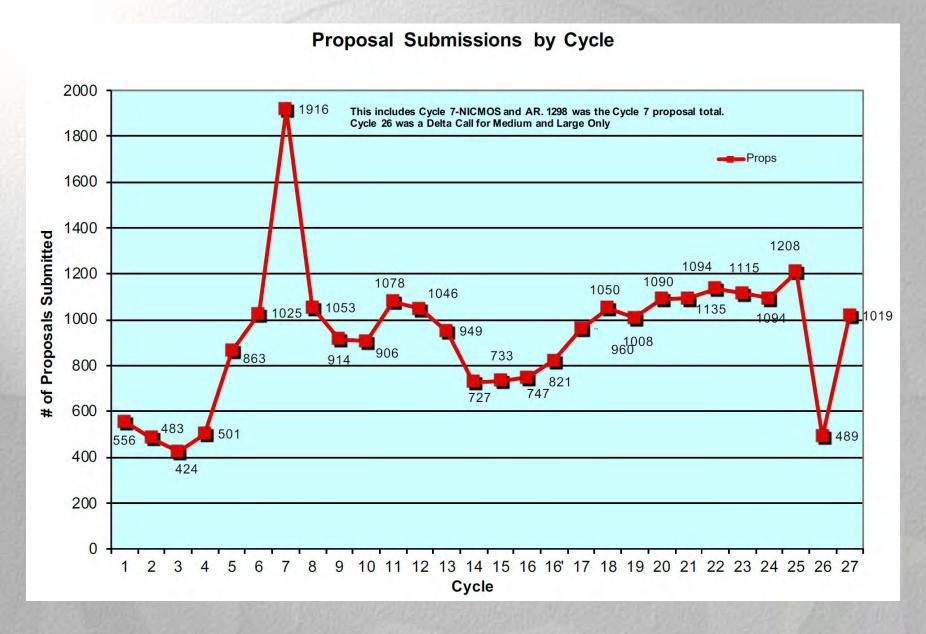


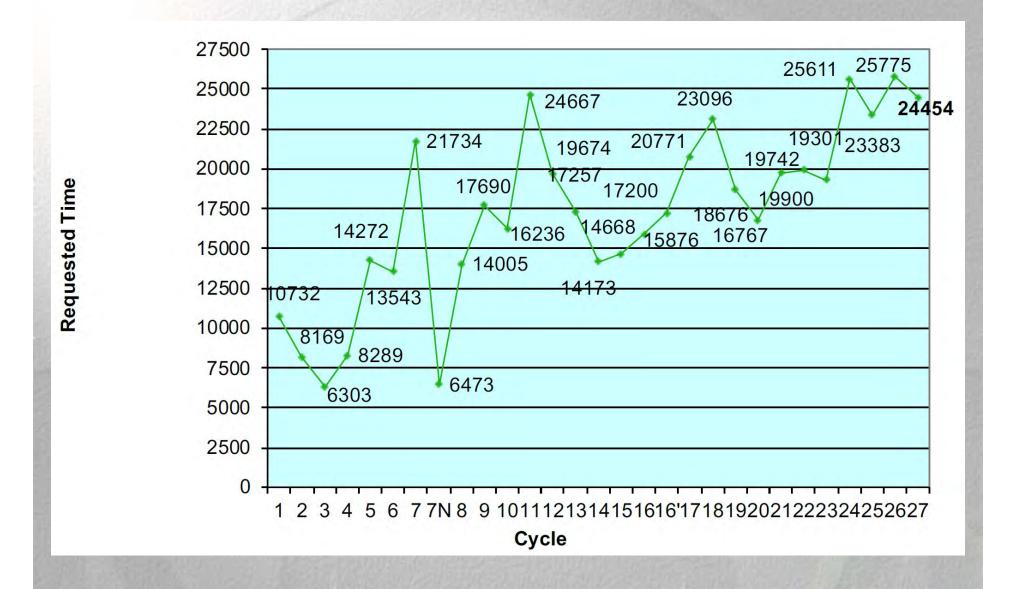
Mid-Cycle Results by Science Category



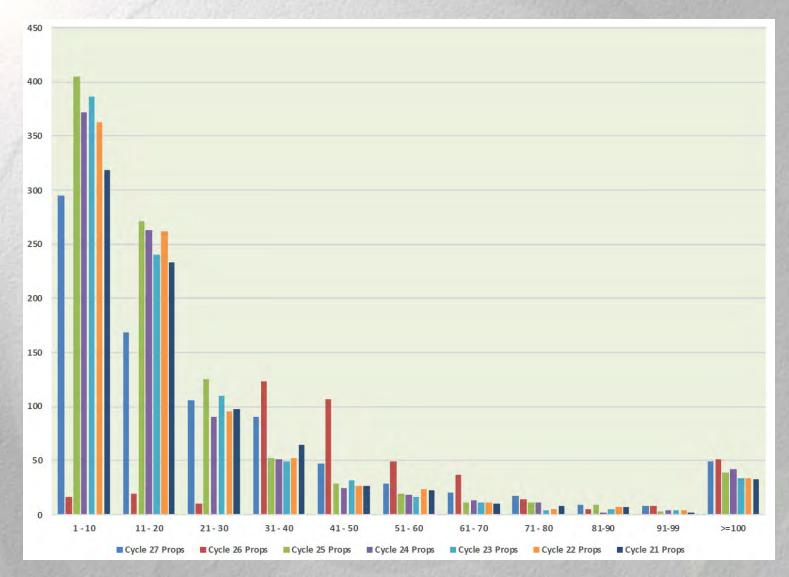
Cycle 27 (Cycle 25) Proposal Statistics

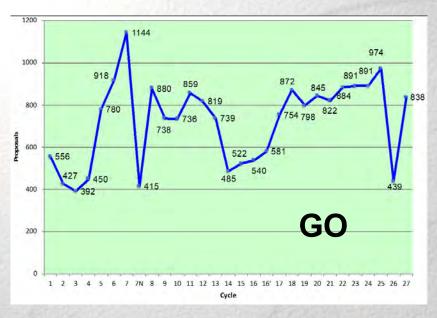
Total Proposals	1019 (1208)	Cycle 27	Cycle 28	Cycle 29
GO	838 (974)	24,454 (144)	625 (n/a)	275 (n/a)
SNAP	32 (52)	3622 (5316)	Targets	
Archival Research	Regular	Legacy		
Regular	69 (105)	23 (12)		
Theory	57 (64)	4 (1)		
Total	149 (169)	23 (13)	172 (182)	
ESA	202 (270)			
ESA GO	198 (254)	6229 (6086)	Orbits	
ESA SNAPs	4 (15)	527 (1379)	Targets	
ESA AR	1 (1)			
			ESA	Orbits
GO Large	54 (40)	5147 (4333)	15 (10)	1542 (1009)
GO Medium	169 (87)	8025 (4240)	41 (27)	1997 (1270)
GO Treasury	26 (23)	3428 (4281)	7 (9)	1057 (1078)
Pure Parallel	9 (3)	2149 (1525)	0 (0)	0 (0)

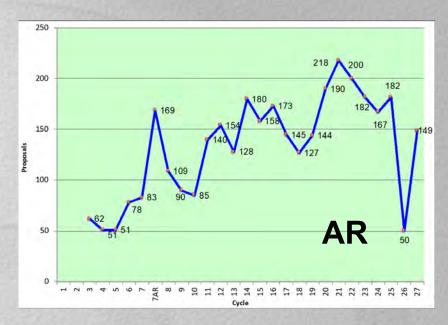




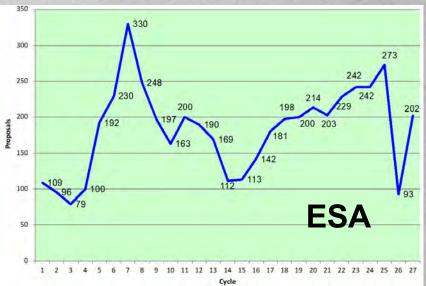
Proposal Sizes



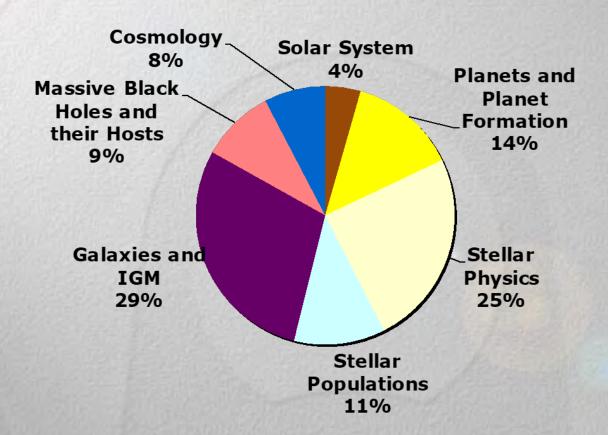




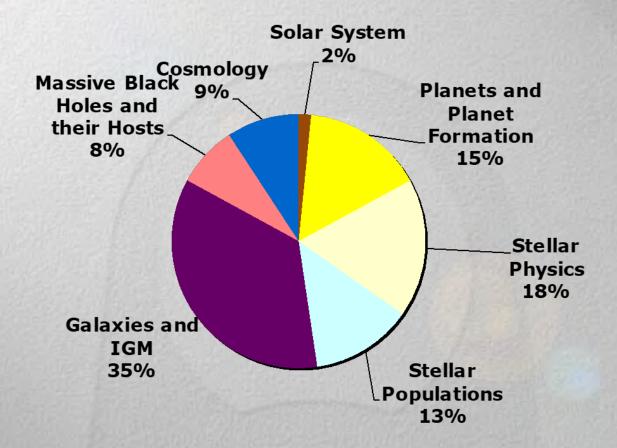




Proposals by Science Categories



Orbits by Science Categories

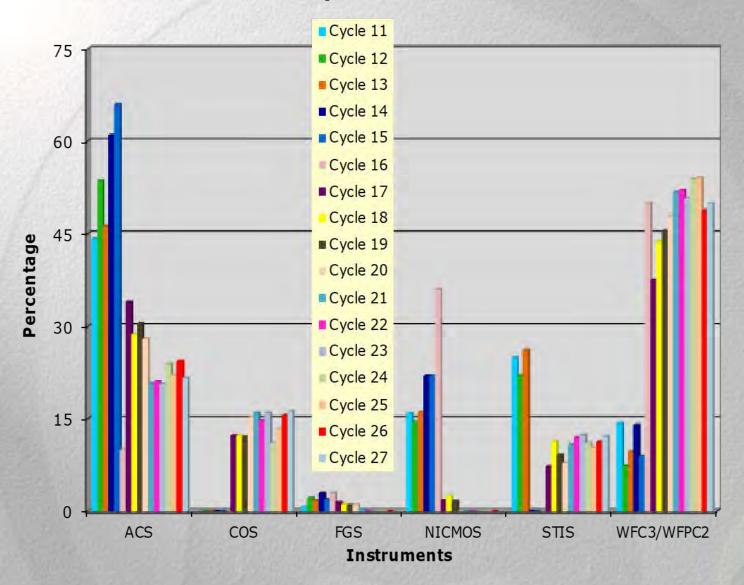


C27 Instrument Summary

Configuration	Mode	Prime %	Coordinated Parallel %	Total	Instrument Prime Usage	Instrument Prime + Coordinated Parallel Usage	Pure Parallel Usage	Snap Usage
ACS/SBC	Imaging	1.6%	0.0%	1.3%		2. 113.00	0.0%	0.0%
ACS/SBC	Spectroscopy	0.1%	0.0%	0.0%			0.0%	0.0%
ACS/WFC	Imaging	15.0%	37.6%	19.8%	THE		5.0%	14.0%
ACS/WFC	Ramp Filter	0.7%	0.0%	0.5%	17.3%	21.6%	0.0%	0.0%
ACS/WFC	Spectroscopy	0.0%	0.0%	0.0%		1 1 1 1 1 1	0.0%	0.0%
COS/FUV	Spectroscopy	17.7%	0.0%	13.9%		1500	0.0%	0.0%
COS/NUV	Imaging	0.1%	0.0%	0.1%	20.7%	16.3%	0.0%	0.0%
COS/NUV	Spectroscopy	2.9%	0.0%	2.3%			0.0%	0.0%
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%	0.0%
STIS/CCD	Imaging	1.4%	0.0%	1.1%		15 July 1	0.0%	0.0%
STIS/CCD	Spectroscopy	3.4%	0.2%	2.7%			0.0%	9.5%
STIS/FUV	Imaging	0.3%	0.0%	0.2%	15.3%	12.2%	0.0%	0.0%
STIS/FUV	Spectroscopy	5.7%	0.2%	4.5%	-R/6-2	1	0.0%	2.7%
STIS/NUV	Imaging	0.0%	0.0%	0.0%			0.0%	0.0%
STIS/NUV	Spectroscopy	4.5%	0.2%	3.6%	15 1	100 market 116	0.0%	0.0%
WFC3/IR	Imaging	14.8%	27.2%	17.4%	William Tay		59.0%	39.5%
WFC3/IR	Spectroscopy	10.0%	2.4%	8.4%	46.7%	49.9%	1.0%	0.0%
WFC3/UVIS	Imaging	21.1%	32.2%	23.4%	10 10 -		35.0%	34.3%
WFC3/UVIS	Spectroscopy	0.8%	0.0%	0.7%	Marie Took	HI HAR BY	0.0%	0.0%
Annual Control	Mary Committee	100%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Prime + Coordinated Parallels 66% Imaging 34% Spectroscopy

GO Requested Instruments



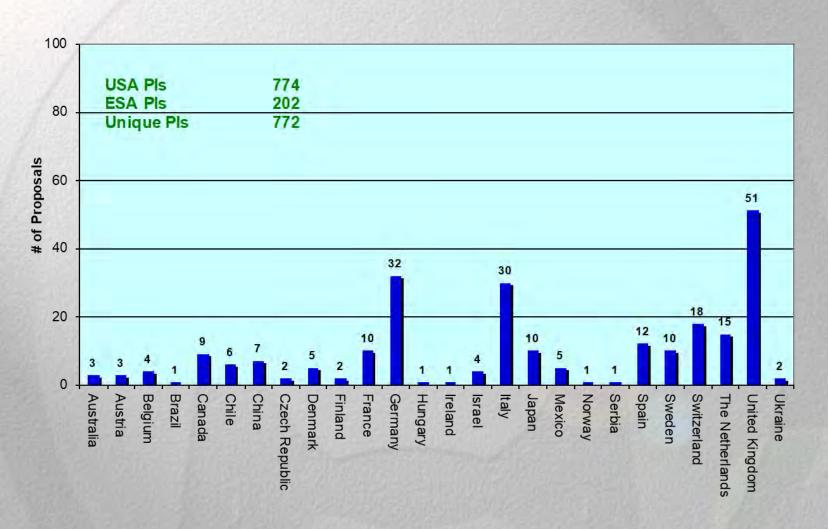
Cycle 27 Joint Observatory Requests

Joint Observatory	Proposals	Requested Time	HST Orbits
Chandra	12	1617 Ksecs	690
NOAO	14	46 Nights	768
NRAO	10	384 Hours	546
TESS	1	8 Targets	40 + 40 + 40
XMM	13	797 Ksecs	557

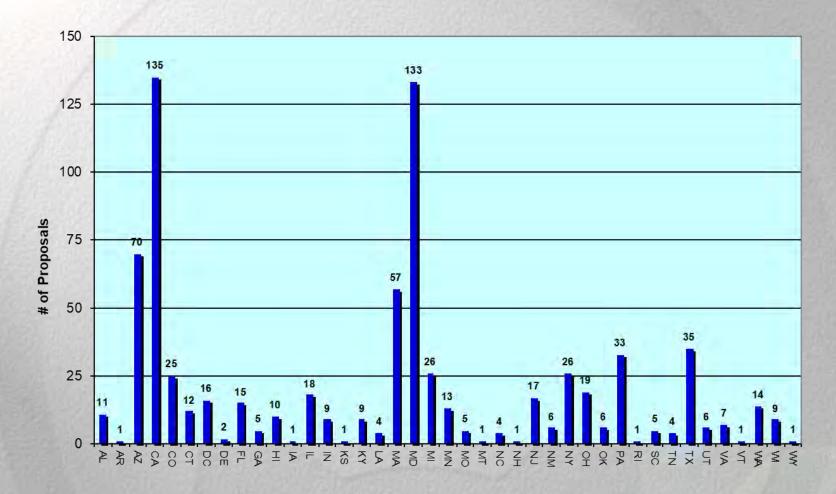
C27: Special Categories

- 37 Target of Opportunity Proposals:
 - 19 Disruptive, 18 non-Disruptive and 9 Both
 - 21 Long Term
 - Requesting 1,030 orbits
- Proposal Special Categories
 - UV Initiative: 388 GOs for 11,346 orbits and 40 ARs
 - JWST Prep: 77 proposals for 4,245 orbits
 - Fundamental Physics: 24 proposals for 1,241 orbits
 - 5 AR Cloud Computing proposals
 - 8 Calibration
 - 4 AR and 4 GO for 38 orbits

Proposals by Country (w/out USA)



Proposals by US State



TAC Organization

- The proposal review will be on June 9 14, 2019.
- The **panels** will discuss Small, Medium, SNAP and Archival proposals until Wednesday noon.
- The TAC and Panel structure will be like in Cycle 25 and before, and not like in Cycle 26.
- 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.
- The panels will meet in the STScI Muller and Rotunda buildings.
- The pairings of science categories will be like in Cycle 25 (e.g., IGM with Galaxies)

TAC Organization (cont.)

- TAC Chair: Rachel Somerville (Flatiron & Rutgers)
- Panel structure in Cycle 27:
 - 15 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
 - 3 mirror panels for Galaxies & IGM
 - 2 mirror panels for Massive Black Holes and Hosts
 - 2 mirror panels for Cosmology
- Each panel has 9 panelists and a Chair.

Available Orbits in Cycle 27

- Roughly 2700 orbits available for Cycle 27 GO proposals
- Break-down:
 - o 600 orbits for the TAC (Large and Treasury)
 - o **1500** orbits for the 15 Panels (Regular GO with <35 orbits)
 - o 600 orbits for medium-sized proposals (35 74 orbits)
- Approximately 800 SNAP targets

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** 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.

TESS Update

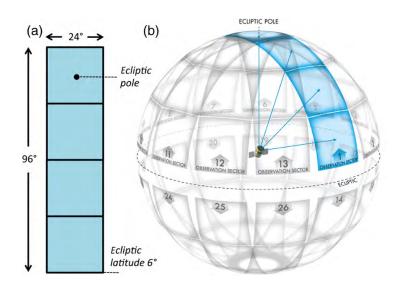


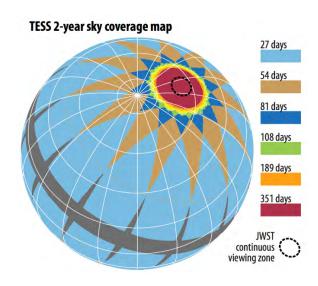
The Transiting Exoplanet Survey Satellite

TESS was launched on April 18 2018 and started science observations on July 25

The 2-year mission will survey 85% of the sky in 24° x 96° segments, with observations spanning 27 days for each segment

The survey of the southern hemisphere will be completed in July 2019; TESS will flip 180° to observe the northern hemisphere







HST-TESS Advisory Committee

Charter:

The HST-TESS Advisory Committee is charged with providing guidance on optimal strategies for maximizing the scientific return from HST observations of TESS targets. In particular, the Working Group should address the following tasks:

- Solicit input from the community on how HST can capitalize on the discoveries made by TESS;
- Identify specific science themes and/or exoplanet types that should receive particular attention;
- Provide advice on the optimal timing for substantive follow-up observations and suggest mechanisms for enabling those observations;
- Comment on the appropriate scale of resources likely required to support those programs.

The committee will summarise its conclusions in a report to the Director and presentations to the STUC in fall 2019.



Advisory Committee membership

Chair: Daniel Apai (Arizona)

Members: Nick Cowan (McGill), Kevin Heng (Geneva), Laura Kreidberg (CfA),

Mercedes Lopez-Morales (CfA – STUC), Caroline Morley (U. Texas)

STScI support: John Mackenty, Neill Reid

The committee has started regular telecons

- Plans underway for a request to the community for white papers (<3 pages)
 - Deadline for submission in early July
- On-line survey questionnaire to be distributed in late May/early June
- Developing plans to consult with experts in specific areas