



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

HST Cycle 33: TAC Results Summary

Science Policy Division

Space Telescope Science Institute

July 18, 2025



Submissions

- The HST Cycle 33 Phase I deadline was on April 10, 2025
 - A total of **833 submissions** were received by this date
 - **33** Proposals found to be non-compliant:
5 DAPR, 5 Template changes, 3 Joint Program no-gos, 20 page limit violations
 - 9 Proposals received a warning
- The 800 Reviewed proposals requesting 17,647 orbits include
 - 165 proposals led by ESA PIs (20.6%)
 - 6653 Investigators in total
 - 2969 Unique investigators (PI, co-PI & co-I), 41 new HST PIs
- Representation from
 - 48 Countries (new Country: Pakistan)
 - 44 US states and territories (+ DC)
 - Details in Investigator Statistics



Executive Summary



Executive Summary of Accepted Proposals

- Accepted 151 Proposals for 2731 Orbits
- 130 GO: Acceptance Rate 1:5.3 for proposals and 1:6.5 for orbits
- 10 SNAP: Acceptance rate $\sim$ 1:4 for proposals and 1279 targets
- 11 Regular AR: Acceptance rate: $\sim$ 1:7 for proposals
- 3 Theory: Acceptance rate $\sim$ 1:9 for proposals
- No Legacy Opportunity offered this cycle
- 26 % of program awarded to Large/Treasury Programs, 24% to Mediums, 31% to Small Programs and 19 % to Very Small Programs.
- Instrument breakdown for GO Programs:
ACS (6 %), COS (19 %), FGS (0 %), STIS (18 %), WFC3 (57 %)
- Imaging (63 %) and Spectroscopy (37 %)
- 30 % of PIs are 1st time HST PIs (41 of 136 unique)



Executive Summary Continued

- **ESA acceptance fraction:**
 - Pls 21.2% for ESA proposals and 19.4 % ESA orbits
 - ESA Cols are 30% of the total Cols
- **Accepted \$ awards to AR programs TBD**
- **Joint Programs:**
 - Chandra: 2 out of 6 accepted for 177 Ksecs
 - JWST: 6 out of 34 accepted for 79 Hours
 - NOIRLab: 0 out of 7 accepted
 - NRAO: 2 out of 2 accepted for 16.3 Hours
 - XMM-Newton: 1 out of 5 accepted for 60 Ksecs
 - HST-TESS Exoplanet Initiative – 0 out of 1 accepted



Executive Summary Continued

- Medium Proposals
 - 12 out of 98 accepted for 659 orbits
 - 28 were triaged
- Calibration Proposals – 0 out of 1 accepted
- ToO's
 - *0 activations < 2 days, 8 activations < 3 weeks, 21 ≥ 3 weeks and 0 Flex Days*
- Pure Parallels – none submitted
- Cloud Computing – 0 out of 1 accepted
- Data Science Software – 1 out of 5 accepted
- Long-Time Monitoring - 14 out of 28 accepted
- Roman Preparatory Science – 6 out of 21 accepted
- ULLYSES Support – 1 proposal accepted for 4 orbits
- Rocky Worlds DDT – 1 proposal accepted for 36+36+36 orbits



Summary Results

Proposals	Requested	Approved	% Accepted	ESA Accepted	ESA % Total
General Observer	682	130	19.1 %	30	23.1%
Snapshot	38	10	26.3 %	1	10 %
Archival Research (incl. Theory)	80	11	13.8 %	1	9 %
Theory	26	3	11.5 %	-	-
Total	800	151	18.9 %	32	21.2 %
Primary Orbits	17647	2731	15.5 %	530	19.4 %



Accepted EC and Medium Proposals



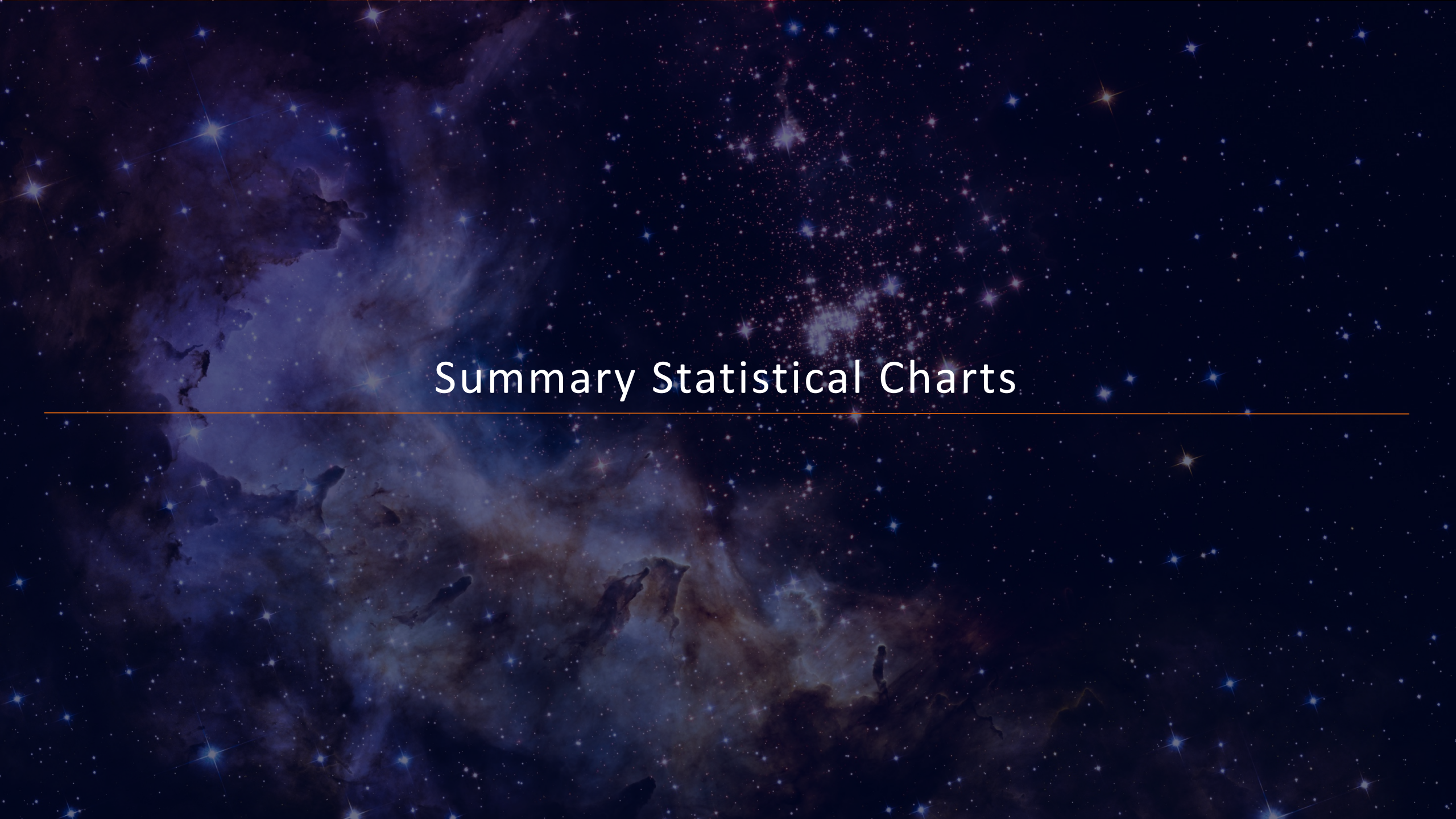
Accepted Programs from the Executive Committee

ID	Resources	Science Category	Title
06137	99	Galaxies	The Metallicity Distribution Functions of M31 Ultra-Faint Dwarf Galaxies
06195	149	Stellar Populations and the Interstellar Medium	Hubble Census of Nearby Satellites
06240	36 + 36 + 36	Exoplanets and Exoplanet Formation	Shoring Up the Cosmic Shoreline: Improving the Cumulative XUV Irradiance Knowledge of Rocky Worlds DDT Targets
06241	124	Galaxies	The HyperDeep Ultraviolet Field
06280	145 + 143	Galaxies	Anatomy of a fall: Dissecting the environment-driven transformation of late-type Virgo cluster galaxies with HST UV-optical imaging of star clusters, associations, and HII regions
06502	80	Exoplanets and Exoplanet Formation	Beyond hydrogen and helium: an exhaustive survey of escaping metals in ultra-hot Jupiters around bright, hot stars
06698	75	Intergalactic Medium and the Circumgalactic Medium	Reaping the Whirlwind: Accretion & Outflow in the Inner Milky Way



Accepted Medium Programs from the Panels

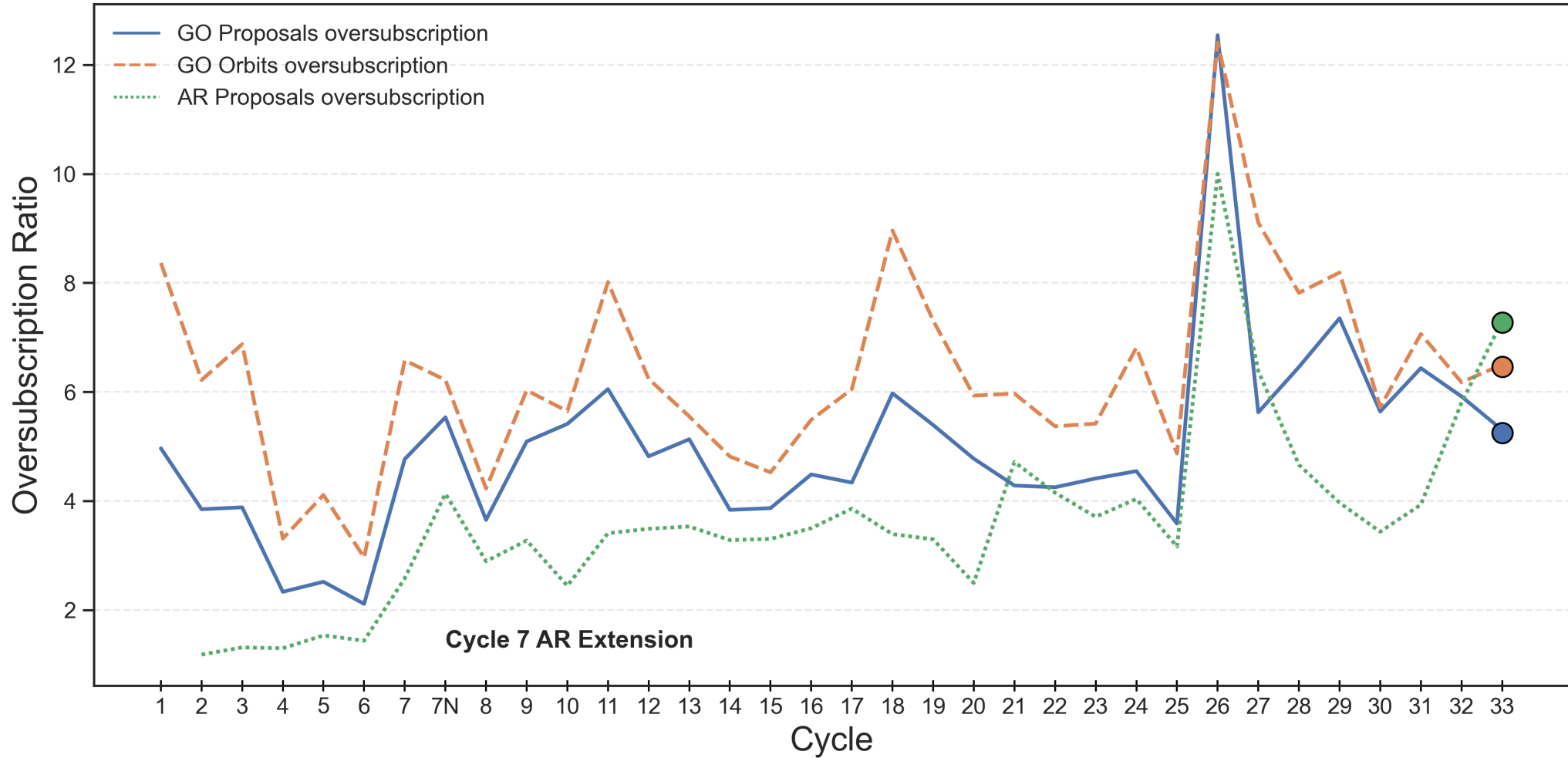
ID	Resources	Science Category	Title
06104	37	Stellar Physics and Stellar Types	Completing Panchromatic Spectra for High Priority HWO Target Stars
06177	48	Stellar Populations and the Interstellar Medium	Proper Motions of the M31 Satellites: The missing pieces of the 6D puzzle
06192	53	Intergalactic Medium and the Circumgalactic Medium	The High Redshift Lyman Continuum Survey
06296	64	Stellar Populations and the Interstellar Medium	Dynamically Mapping the Satellite Galaxies in the Outer Halo of the Milky Way
06331	59	Galaxies	A Far-Ultraviolet Spectroscopic Survey of AGN Dwarf Galaxies
06415	40	Galaxies	Spatially resolving the conditions for ionizing radiation escape in galaxies
06510	70	Intergalactic Medium and the Circumgalactic Medium	Baryonic Escape, Abundances, and Thermodynamics in Cosmic Ecosystems (BEATriCE)
06520	44	Supermassive Black Holes and Active Galaxies	Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Modeling
06631	56	Stellar Physics and Stellar Types	HST Superluminous Supernova UV Legacy Program
06808	73	Intergalactic Medium and the Circumgalactic Medium	The Size Scale and Baryonic Content of Low Redshift Intergalactic Absorbers
06819	60	Exoplanets and Exoplanet Formation	Tracing Accretion in the Planetary Regime: A Comprehensive UV/Optical Survey of the Late Stages of Planet Formation
06839	55	Galaxies	A New Benchmark Set of Massive Stars Spectra to Distinguish Wolf-Rayet Stars and Very Massive Stars



Summary Statistical Charts

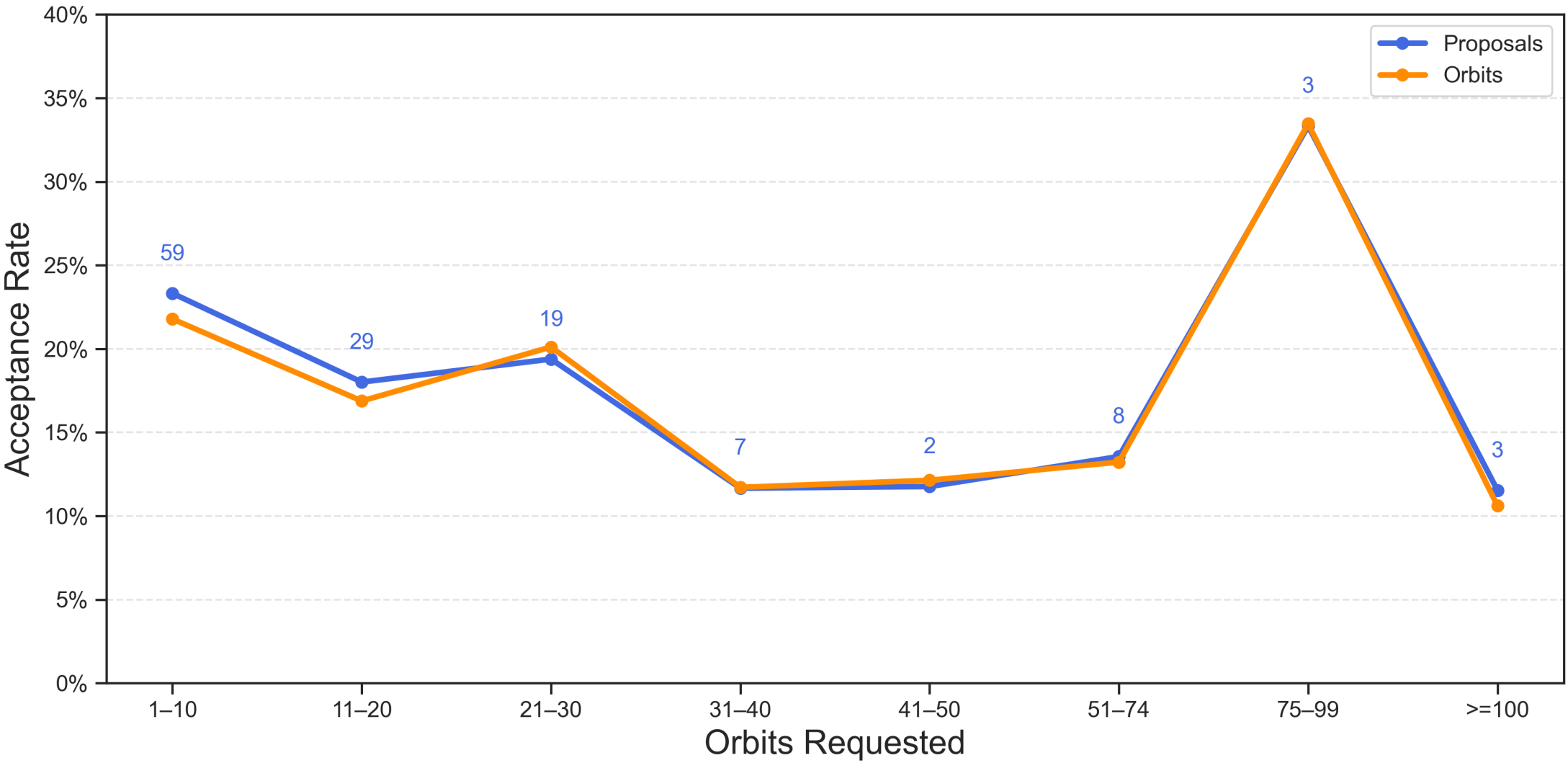


Oversubscription by Cycle



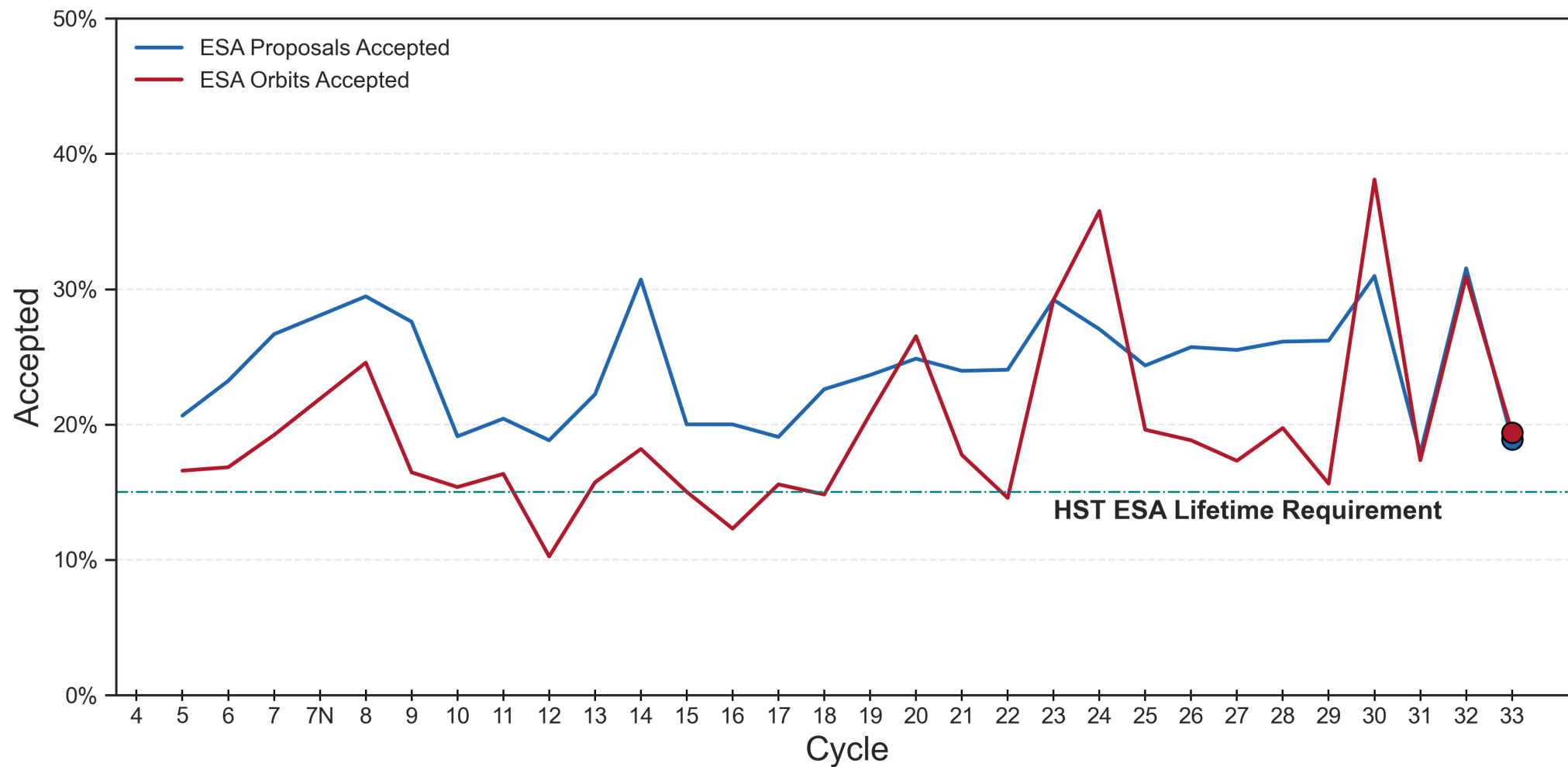


Acceptance Fraction by Size



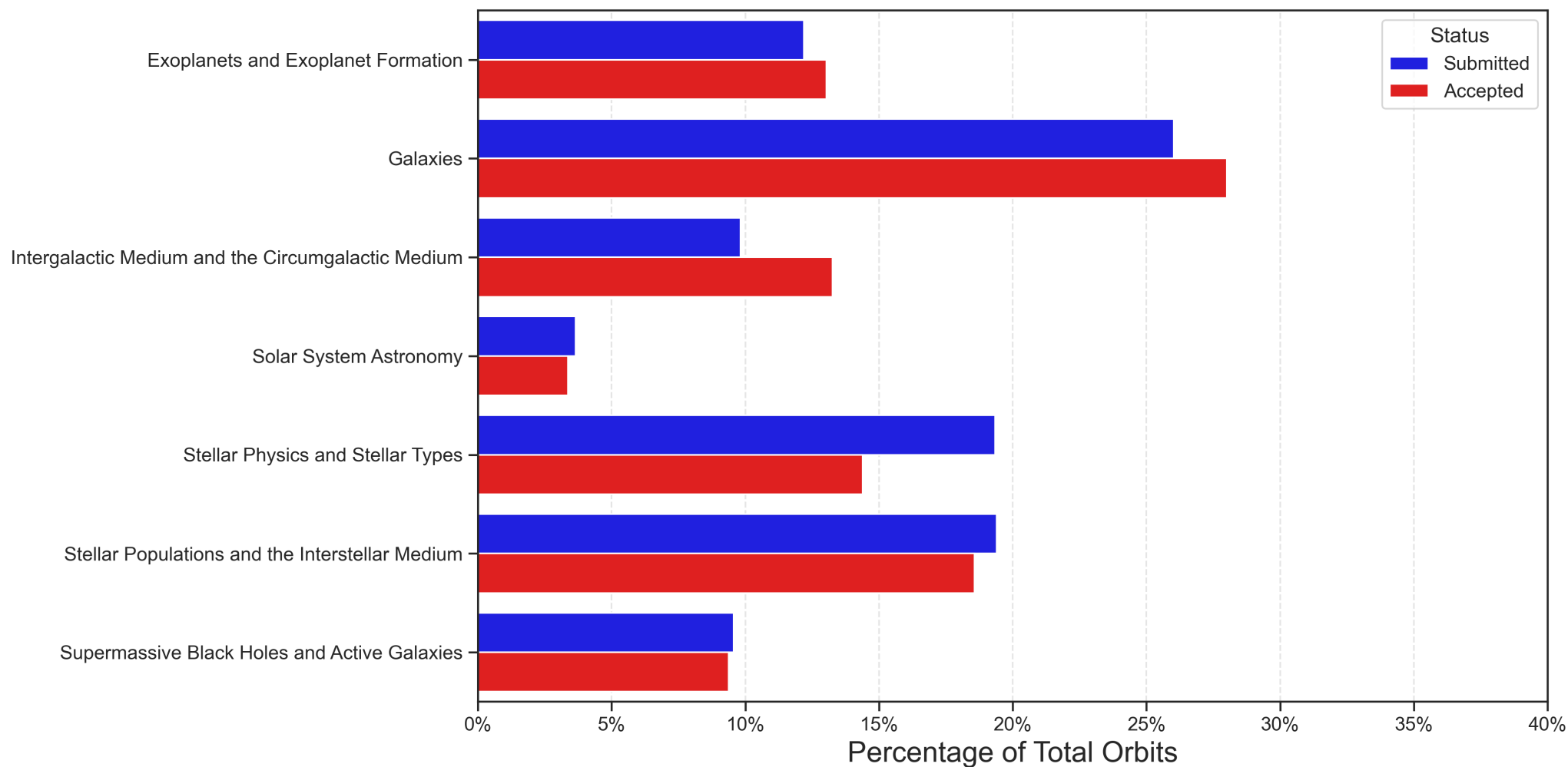


ESA Acceptance Fraction



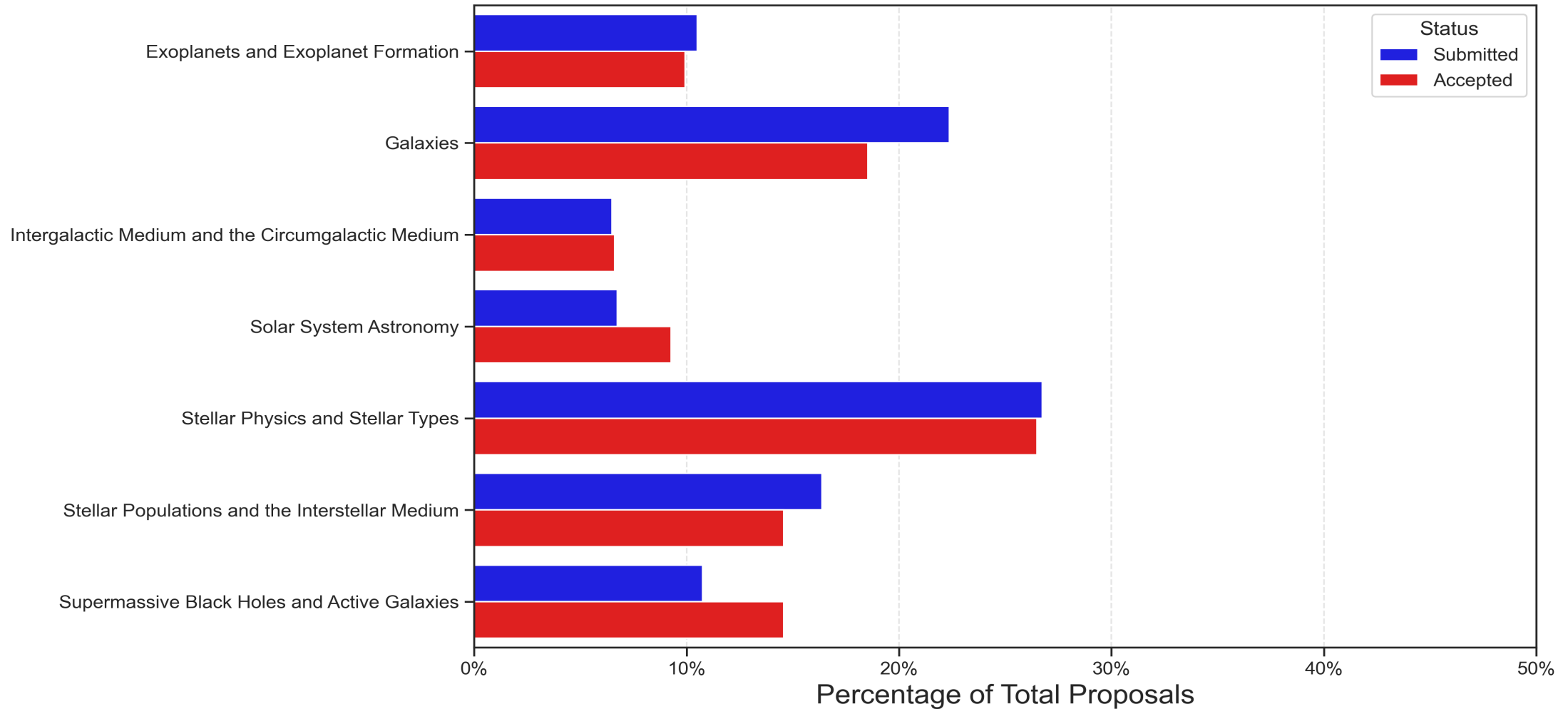


Science Category Distribution by Orbits





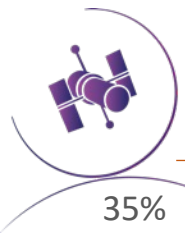
Science Category Distribution by Proposals



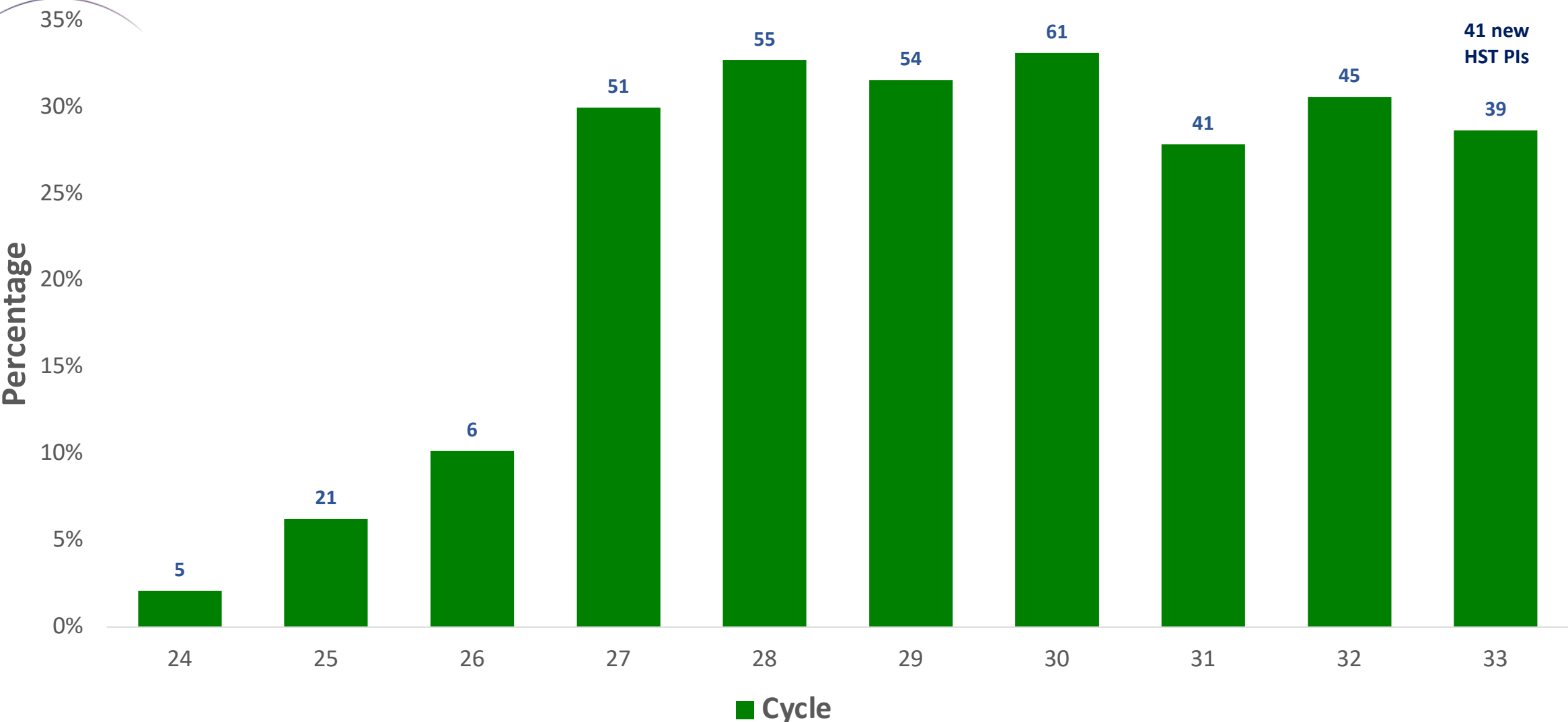


Instrument Summary

Configuration	Mode	Prime %	Coordinated Parallel %	Total %	Instrument Prime Usage	Instrument Prime + Coordinated Parallel Usage	Snap Usage (Targets)
ACS/SBC	Imaging	0.7		0.6	5.7 %	11.3 %	22.3 %
ACS/SBC	Spectroscopy						
ACS/WFC	Imaging	2.9	74.3 %	8.7			
ACS/WFC	Ramp Filter	2.1		2.0			
ACS/WFC	Spectroscopy						
COS/FUV	Spectroscopy	13.7		12.6	18.9 %	17.4 %	4.8 %
COS/NUV	Imaging	1.8		1.6			
COS/NUV	Spectroscopy	3.4		3.2			
FGS	POS				0.0 %	0.0 %	0.0
FGS	TRANS						
STIS/CCD	Imaging	0.2		0.2	17.9 %	16.5 %	11.7 %
STIS/CCD	Spectroscopy	2.9		2.7			
STIS/FUV	Imaging	0.6		0.6			
STIS/FUV	Spectroscopy	5.6		5.1			
STIS/NUV	Imaging						
STIS/NUV	Spectroscopy	8.6		7.9			
WFC3/IR	Imaging	4.3		3.9	57.6 %	54.9 %	61.1 %
WFC3/IR	Spectroscopy						
WFC3/UVIS	Imaging	52.8	25.7 %	50.6			
WFC3/UVIS	Spectroscopy	0.5		0.4			



Percentage of New STScI (HST + JWST) PIs



The background of the slide is a deep space image featuring a dense field of stars of various colors (blue, white, yellow) and a large, complex nebula with swirling clouds of gas and dust in shades of blue, purple, and brown. The text is centered over this image.

Initiative and Special Category Programs



Target of Opportunity Proposals

ID	Orbits	Disruptive Activations	Non-Disruptive Activations	Flex Day Activations	Total Activations	Carry-Over	Type of ToO
6059	12	0	2	0	2		Novae
6359	8	0	2	0	2		TDE
6366	10	0	2	0	2	YES	TDE
6500	8	0	2	0	2	YES	Lensed SN
6506	6	1	0	0	1	YES	Luminous Fast Blue Optical Transient
6563	2	0	2	0	2		SN Progenitors
6590	4	0	1	0	1	YES	Jupiter Family Comet
6593	12	1	0	0	1		IIP/L SN
6629	6	1	0	0	1	YES	Ibn SN
6631	56	2	4	0	6		Super-luminous SN
6691	30	3	6	0	9		TDE
Total	154	8	21	0	29		



UV Initiative

- Proposals **flagged by proposers** as UV Initiative
 - note that not all orbits requested in UV initiative proposals are in the UV
- **Overall success rate: 20 % for UV Proposals and 16 % for UV orbits (out of UV submitted)**
 - 54 % of orbits accepted by the EC are from UV Initiative proposals
- **1424 of 8731 requested UV Orbits Accepted**
- 63 of 322 submitted UV Proposals Accepted
 - 3 of 26 UV ARs and 60 of 296 UV GOs accepted



Long Term Monitoring (LTM) Proposals

- 28 proposals submitted
 - 14 accepted

ID	Resources	Title
06076	12+9+6	Simultaneous mapping of ammonia on Jupiter with Juno and HST/WFC3
06081	12	Investigating Saturn's Equatorial Winds at Equinox
06177	48	Proper Motions of the M31 Satellites: The missing pieces of the 6D puzzle
06240	36+36+36	Shoring Up the Cosmic Shoreline: Improving the Cumulative XUV Irradiance Knowledge of Rocky Worlds DDT Targets
06296	64	Dynamically Mapping the Satellite Galaxies in the Outer Halo of the Milky Way
06305	3+3+3+3+3	Investigating Planet Formation in Real Time with the Dynamic Shadows Sweeping Across TW Hya
06309	14+12	Requiem's Return: Precision cosmology from a decade-delayed, strongly-lensed supernova and its new sibling
06334	8	The Mysterious Death of a Lonely Dwarf: Who Quenched Cetus?
06489	8+8+8	Lightning Strikes Twice: A Panchromatic View of Shock Power in the Closest Type II Supernovae of the Decade
06545	6	Stellar Initial Mass Function and Dark Matter from [OII] and Paschen-alpha Emission Maps Of the Giant Dragon Arc in the Hubble Frontier Fields Galaxy Cluster Abell 370
06580	4	First UV Observations of the Negative Extremum of χ_1 CMa's Complex Magnetic Field
06633	12	Searching for the Survivor: Deep HST Imaging of the Explosion Site of SN2022jli
06762	2+1+1	Time-resolved UV spectroscopy of the magnetic O star HD 54879
06789	3+3+3	Phoenix from the Ashes: Searching for Surviving Companions to SN~2023bee with early excess



Roman Preparatory Science (RPS) Proposals

- 21 proposals submitted
 - 6 accepted

ID	Resources	Title
06128	AR	Finding Low Halo Mass Strong Lenses in HST Archive
06590	4 orbits	Fireworks at the Gate: HST Observations of the Next Active Object in the JFC Transition Region
06631	56 orbits	HST Superluminous Supernova UV Legacy Program
06735	28 orbits	Revealing new regimes in terminal mass loss from massive stars with HST and NEOWISE
06744	SNAP (120 targets)	An HST Near-UV SNAP + Roman survey of extended star-forming disks in nearby galaxies
06806	SNAP (172 targets)	Confirming Spectroscopic Strong Lenses Found in New Discovery Windows from DESI DR1



Data Science Software

- 5 Submitted
 - 1 accepted

ID	Resources	Title
6128	AR	Finding Low Halo Mass Strong Lenses in HST Archive



Joint Chandra Proposals

- 6 Submitted for 73 Orbits and 454 Ksecs
 - 2 Accepted for 39 Orbits and 117 Ksecs

ID	Orbits	Ksecs	Title
6240	36 + 36 + 36	87	Shoring Up the Cosmic Shoreline: Improving the Cumulative XUV Irradiance Knowledge of Rocky Worlds DDT Targets
6854	3	90	Uncovering the optical emission in the brightest X-ray Jet



Joint JWST Proposals

- 34 Submitted for 926 Orbits and 539.6 Hours
 - 6 Accepted for 116 Orbits and 79.1 Hours

ID	Orbits	Hours	Title
6081	12	10.6	Investigating Saturn's Equatorial Winds at Equinox
6192	53	24.0	The High Redshift Lyman Continuum Survey
6309	14 + 12	25.8	Requiem's Return: Precision cosmology from a decade-delayed, strongly-lensed supernova and its new sibling
6402	18	7.5	Unveiling the energy flow from Jupiter's magnetosphere to aurora
6545	6	3.4	Stellar Initial Mass Function and Dark Matter from [OII] and Paschen-alpha Emission Maps Of the Giant Dragon Arc in the Hubble Frontier Fields Galaxy Cluster Abell 370
6704	13	7.8	An Extraordinary Strongly-Lensed Ly-C Leaker at $z=4.059$



Joint NRAO Proposals

- 2 Submitted for 9 Orbits and 16.3 Hours
 - 2 Accepted for 9 Orbits and 16.3 Hours

ID	Orbits	Hours	Title
6706	6	4.3	UV Exo-Aurorae: Multi-Wavelength Observations of a Radio Emitting T-dwarf to confirm Auroral Activity in the Ultraviolet.
6810	3	12.0	Investigating AGN Feedback in a $z=0.8$ Brightest Cluster Galaxy with a Remarkable 30 Kiloparsec Extended Dust Tail



Joint XMM Proposals

- 5 Submitted for 126 HST Orbits and 201 ksecs
 - 1 Accepted for 36 Orbits and 60 ksecs

ID	Orbits	Ksecs	Title
6240	36 + 36 + 36	60	Shoring Up the Cosmic Shoreline: Improving the Cumulative XUV Irradiance Knowledge of Rocky Worlds DDT Targets