

# Cycle 25 Mid-Cycle Round 1 Results

## Selected Europa Programs

## Cycle 26 & 27 Preparations

19 April 2018

# Cycle 25 Mid-cycle Round 1 Results

- Two submission deadlines: 9/30/17 and 3/21/18
- Proposals sent to five external reviewers who sent their grades
- Ranking based on the received grades
- 61 proposals in total submitted for 367 Orbits
  - 8 Proposals deemed non-compliant and not sent for reviews
  - 21 Proposals recommended for 110 orbits
  - Acceptance Rate:  $\sim 1/3$  for proposals and orbits
- Instrument breakdown: ACS (13%), COS (7%), STIS (32%), and WFC3 (48%)
- Imaging (60%) and Spectroscopy (40%)
- ESA acceptance fraction:
  - PIs 33% for proposals and 49% for orbits
  - ESA Co-Is are 42% of the total Co-Is
- UV Initiative: 38% for Proposals and Orbits



# Mid-Cycle Recommended Proposals

ID	Prime	FirstName	LastName	Institution	Title
1583	3	Danielle	Berg	University of Wisconsin - Milwaukee	Anchoring C/O with an Extremely Metal Deficient Galaxy
1538	3	Edward	Cackett	Wayne State University	Accretion disk reverberation mapping of the high Eddington rate Seyfert 1 Mrk 110
1533	4	John	Chisholm	Observatoire de Geneve	The sub-kiloparsec comparison of stellar clumps and molecular gas within the spiral arms of a high-redshift galaxy
1535	5	Martin	Cordiner	NASA Goddard Space Flight Center	Is C60+ present in the diffuse interstellar medium?
1581	2	Denija	Crnojevic	Texas Tech University	Characterizing the first Ultra-Compact Dwarf with a resolved extended halo
1571	3	Haakon	Dahle	University of Oslo	Probing spatially variable Lyman-continuum escape from the brightest lensed galaxy in the universe
1573	10	Tony	Farnham	University of Maryland	The Nucleus of comet 41P/Tuttle-Giacobini-Kresak
1522	4	Or	Graur	Harvard University	One last peek at SN 2015F
1551	10	Christina	Hedges	NASA Ames Research Center	Sub-Neptune Atmosphere Characterization in a Multi-Planet System
1512	3	David	Jewitt	University of California - Los Angeles	Characterization of Distant Comet C/2017 K2
1556	8	Baptiste	Lavie	Observatoire de Geneve	Atmospheric Escape from the Closest Super-Earth at High Spectral Resolution
1547	5	Rohan	Naidu	Harvard University	Confirming Extreme Lyman Continuum Emission in a $z=3.27$ Star-Forming Galaxy
1557	1	Eric	Peng	Peking University	Globular clusters and dark matter in the Virgo ultra-diffuse galaxy VLSB-B
1558	5	Roberto	Raddi	The University of Warwick	GD492: a nearby hypervelocity emissary from a thermonuclear supernova event
1542	8	Marc	Rafelski	Space Telescope Science Institute	Identifying DLA Host Galaxies: The First Deep Ultraviolet Imaging of a high NHI Damped Lyman-alpha System
1576	9	Seth	Redfield	Wesleyan University	Searching for Atmospheric Loss Signatures In the Newly Discovered Super-Earth GJ9827b
1568	2	Noel	Richardson	University of Toledo	The nature of the current outburst of the Be star HD 6226
1525	8	Daniel	Schaerer	Observatoire de Geneve	The first UV emission line spectrum of a strong low- $z$ Lyman continuum leaker - a key to studying the sources of cosmic reionization
1517	8	James	Schombert	University of Oregon	Exploring the Nature of Dark Matter Through Near-IR CMD's of LSB Galaxies
1530	2	Chiara	Spiniello	INAF, Osservatorio Astronomico di Capodimonte	The first compact massive lens galaxy in the Kilo Degree Survey
1536	6	Paul	Wilson	Universiteit Leiden	Observing the final part of the beta Pic Hill Sphere Transit in the far-UV

# Europa Results

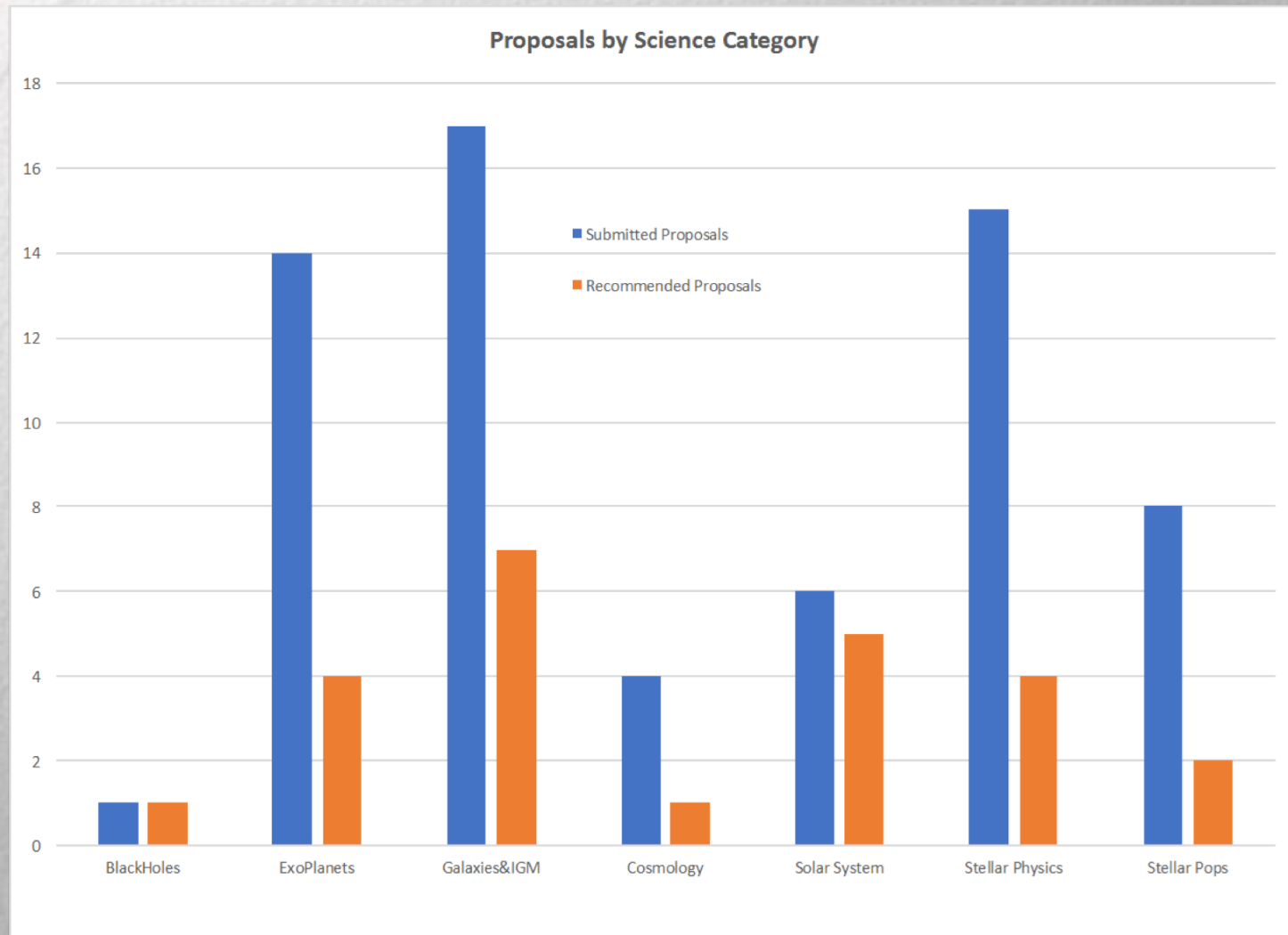
- 4 proposals submitted for 103 Orbits
- 3 proposals recommended for 95 orbits
- Instrument breakdown: STIS (96%), and WFC3 (4%)
- Imaging (60%) and Spectroscopy (40%)
- ESA acceptance fraction:
  - Pls 33% for proposals and 59% for orbits
  - ESA Co-Is are 26% of the total Co-Is
- UV Initiative: 66% for Proposals and 89% for Orbits



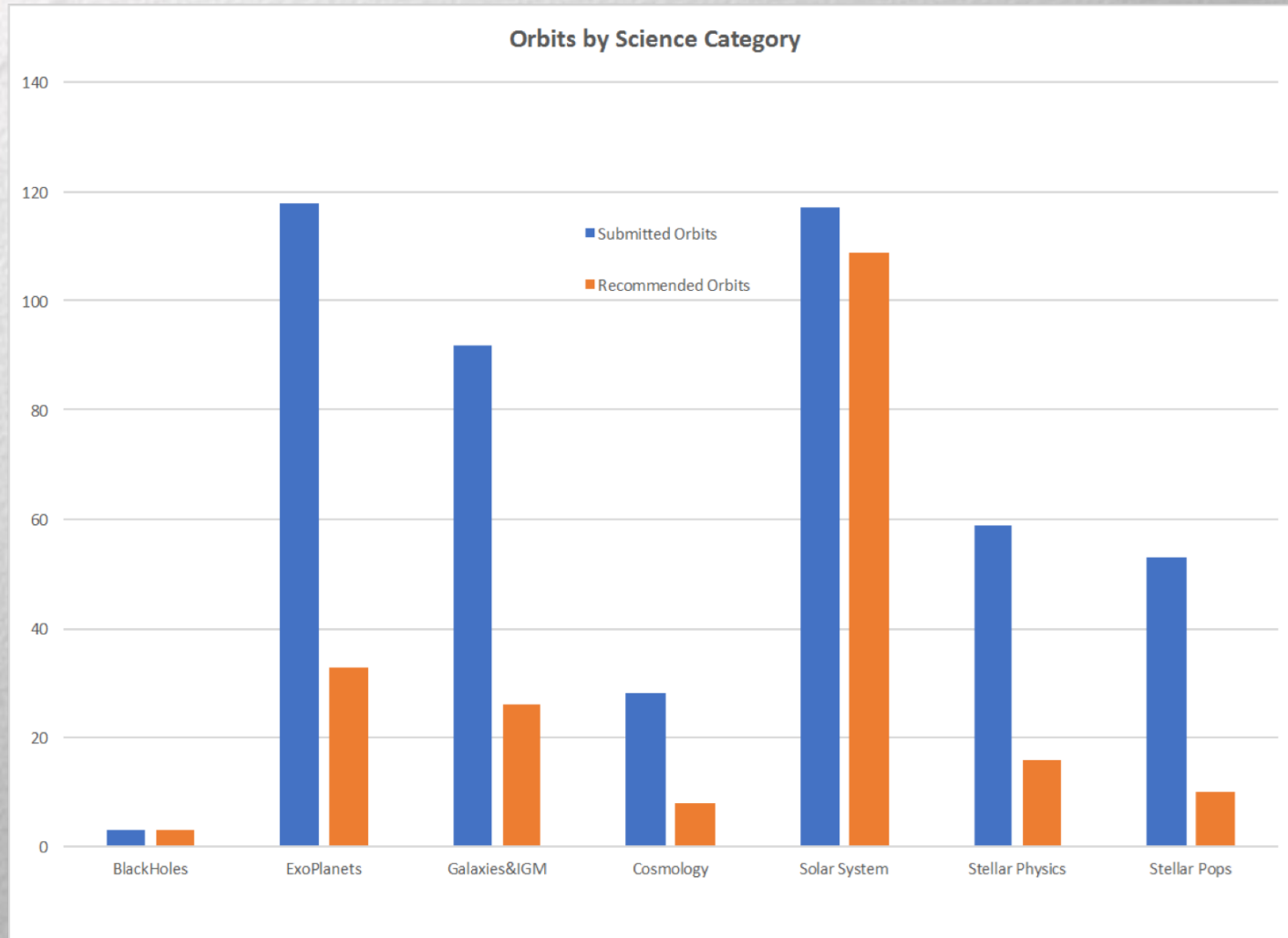
# Europa Recommended Proposals

ID	Prime	FirstName	LastName	Institution	Title
1565	10	Katherine	de Kleer	California Institute of Technology	Eclipse Observations of Europa's Water Plumes
1527	55	Lorenz	Roth	Royal Institute of Technology	Abundance, composition, and variability of Europa's plumes: Pathfinding future habitability investigations
1513	30	William	Sparks	Space Telescope Science Institute	An intensive ultraviolet imaging campaign for Europa's plumes

# Mid-Cycle + Europa Results by Science Category



# Mid-Cycle + Europa Results by Science Category



# Cycle 25 Mid-cycle 2

- Proposal deadline – March 21 2018
  - 69 proposals for 445 orbits; 2 non-compliant
  - Proposals sent for review
  - Selection by mid-May

Topic	Number
Cosmology	7
Galaxies and the IGM	15
Massive Black Holes and their Host Galaxies	6
Planets and Planet Formation	23
Solar System	2
Stellar Physics	10
Stellar Populations	6



# Cycle 26 Preparations

- The Cycle 25 TAC pre-allocated 1200 orbits for Small proposals in Cycle 26 to reduce some anticipated pressure in the time allocation of the first cycle of JWST.
- Snapshot targets were over-allocated as well.
- Therefore no Small and Snapshot proposals will be accepted in Cycle 26, except for Small Joint programs with Chandra, XMM, NOAO, and NRAO.
- Accepted proposal categories are Joint Small, Medium, Large, Treasury, and Legacy.
- 2100 orbits will be available (subject to revision)

# Cycle 26 Initiatives

- UV Initiative and JWST Preparatory Science Initiatives are retained
- Fundamental Physics with HST
  - New initiative in response to report from Fundamental Physics Working Group
  - “STScI encourages proposals that tackle questions in fundamental physics, particularly as highlighted in the 2017 report from the Fundamental Physics Working Group. These proposals can be for observations (GO) or archival research (Legacy AR). Given the limited resources available in Cycle 26, proposers may consider pilot investigations that could be expanded in future cycles. The proposals will be reviewed by experts in the appropriate field.”
  - As with UV & JWST Prep initiatives, there is no specific orbit allocation; further actions will be contingent on the response



# Cycle 26 Proposal Review Schedule

- 05/10/18: Call for Proposals release
  - *Call will be on-line following JWST JDox format*
- 08/17/18: Phase I Proposal deadline
- 09/06/18: Proposals made available to panels
- 10/02/18: Preliminary grades due
- 10/08/18 – 10/11/18: TAC meets
- 10/25/18: Notifications sent out (tentative)
- 11/29/18: Phase 2 and budget deadlines
- **10/01/18: C26 begins**



# TAC Organization

- The proposal review will be on **October 8 – 11, 2018**, with the Orientation on the evening of October 8.
- The overall TAC Chair is **Priya Natarajan**.
- Since there will be no Small (except for Joint), Archival and Snapshot proposals, there will be no Panels, only the TAC.
- We anticipate about **300** proposals in total.
- The TAC cannot discuss that many proposals in one panel. Therefore the TAC will be divided into four sub-TACs according to science categories.
- Each sub-TAC has 12 members, including a Chair and Vice-Chair.
- The **sub-TAC panels** will meet for two days on October 9 and 10.
- The four sub-TAC panels will rank **all** proposals.
- On October 11, the Chairs, Vice-Chairs and the overall TAC Chair will form the “**super-TAC**” and discuss the top-ranked Large/Treasury/Legacy proposals from each sub-TAC for programmatic balance.
- We anticipate that each panel will forward **5 – 7** proposals to the super-TAC.
- The super-TAC then ranks all proposals received from the sub-TAC panels.

# TAC Organization (cont.)

- The four sub-TAC panels will have about 75 proposals each (prior to triage).
- Science categories have to be mapped with the four panels.
- Science compatibility and proposal numbers need to be balanced
- As there are no mirror panels, steps were taken to minimize conflicts:
  - Official Vice-Chair in case the Chair is conflicted
  - Restrictions on being PI/co-I on proposals for all panelists



# Science Categories vs. Panels

- Sub-TAC 1: Solar System, Exoplanets and Debris Disks
  - Sub-TAC 2: Stellar Physics and Stellar Populations
  - Sub-TAC 3: Black Holes and Intergalactic Medium
  - Sub-TAC 4: Galaxies and Cosmology
- 
- **These pairings apply only to Cycle 26.** For Cycle 27 we expect to have the same pairing as in Cycle 25.



# Cycle 27 and Beyond

- We will return to the regular 1-yr cycle for the HST TAC in Cycle 27 and beyond, together with mid-cycle opportunities.
- All proposal categories offered in Cycle 25 will be available and reviewed by panels (Small, Medium, AR) and the TAC (Large, Treasury, AR Legacy).
- Cycle 27 schedule:
  - Early-January 2019 – release of Call for Proposals
  - Early-April 2019 – Phase I deadline
  - Late-May/Early June 2019 – TAC meets at STScI
- JWST Cycle 1 GO proposal schedule will be adjusted to fit this schedule
  - Anticipate Call in Summer 2019, TAC in Fall 2019

# Review process

- We anticipate using “hybrid” panels:
  - External panelists review and grade the proposals (as in the mid-cycle reviews)
  - Each proposal will have four external reviews
  - The external reviews and grades will be used for a rank-ordered list
  - Each panel will have three on-site panelists, incl. a Chair, who review the rank-ordered list and adjust for balance, bias, etc.
- These changes apply only to the panels (Small/Medium proposals). The TAC (Large/Treasury) will function as in Cycle 25.