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EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

JWST Cycle 3 Deadline Proposal Statistics

Brett Blacker, Christine Chen, & Katey Alatalo
on behalf of the STScI Science Policies Group

November 3, 2023



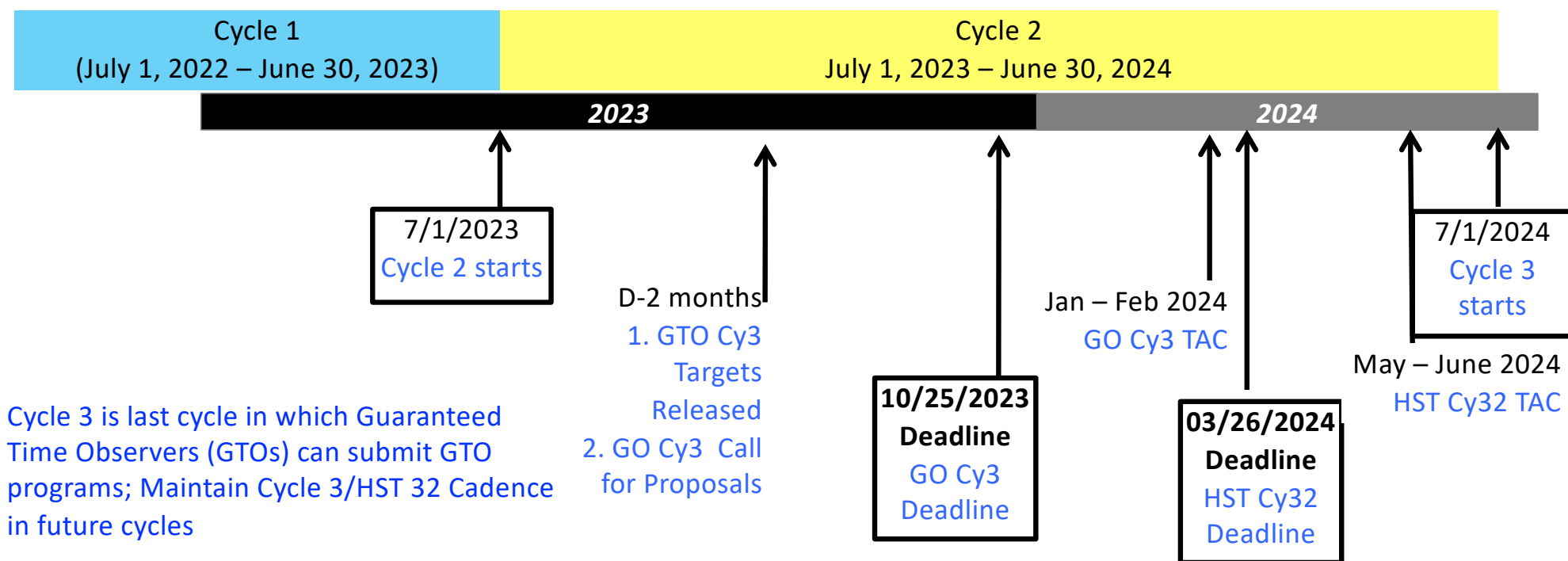
Cycle 3 Proposal Review Schedule

Date	Milestone
August 15, 2023	Call for Proposals Released
October 25, 2023 8PM EDT	Proposal Deadline
November 6, 2023	Orientation for Discussion Panelists
November 7, 2023	Orientation for External Panelists
November 9, 2023	Proposals released to reviewers for review and grading
January 5, 2024	Orientation meeting for Executive Committee
January 17, 2024	Deadline for Preliminary Grades
January 19, 2024	Release of final Panel Reading Lists
January 29 – February 2, 2024	Discussion Panels Meet
Monday February 5, 2024	Deadline for Panelist Review Comments
Monday February 5, 2024	Executive Committee Meets
Friday February 9, 2024	Deadline for Chair Signoff on Panel Comments
February 22, 2024	Director's Review
February 28, 2024	Release of Science Program
July 1, 2024	Cycle 3 Science Start



JWST Timeline

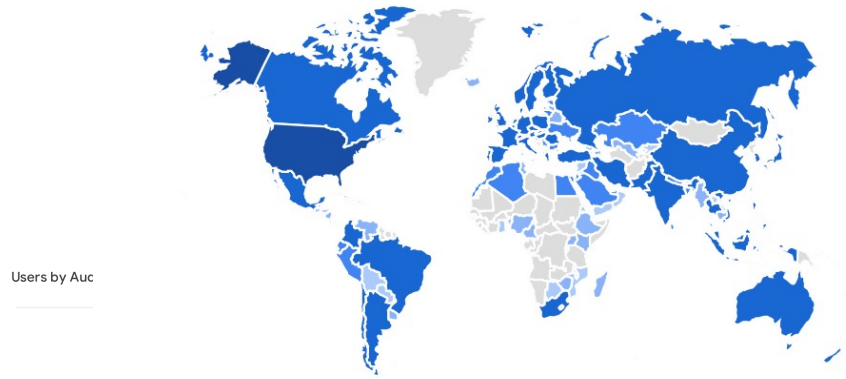
Beginning in Cycle 3, STScI plans to release the annual JWST General Observer (GO)/Archival (AR) Call for Proposals in mid-August and to support the annual proposal deadline in late October. . HST will be offset by ~6 months





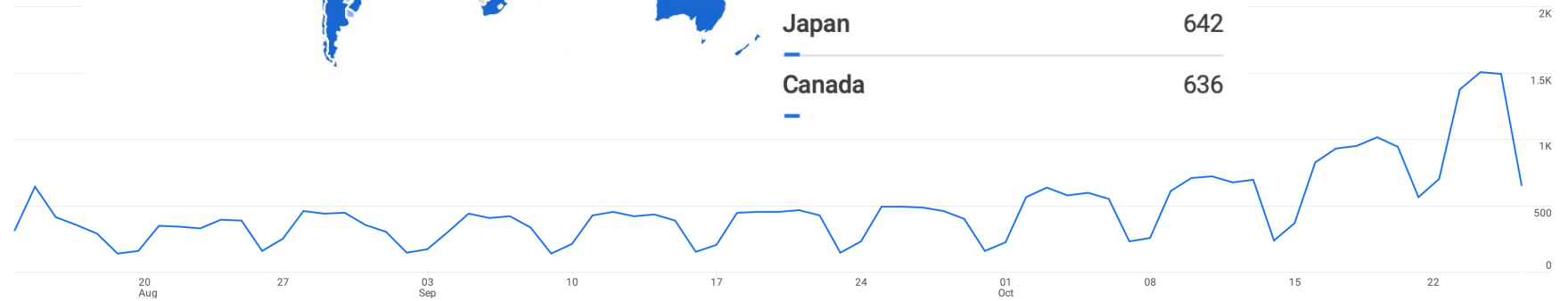
JDox Traffic

Users▼ by Country



Users by AUC

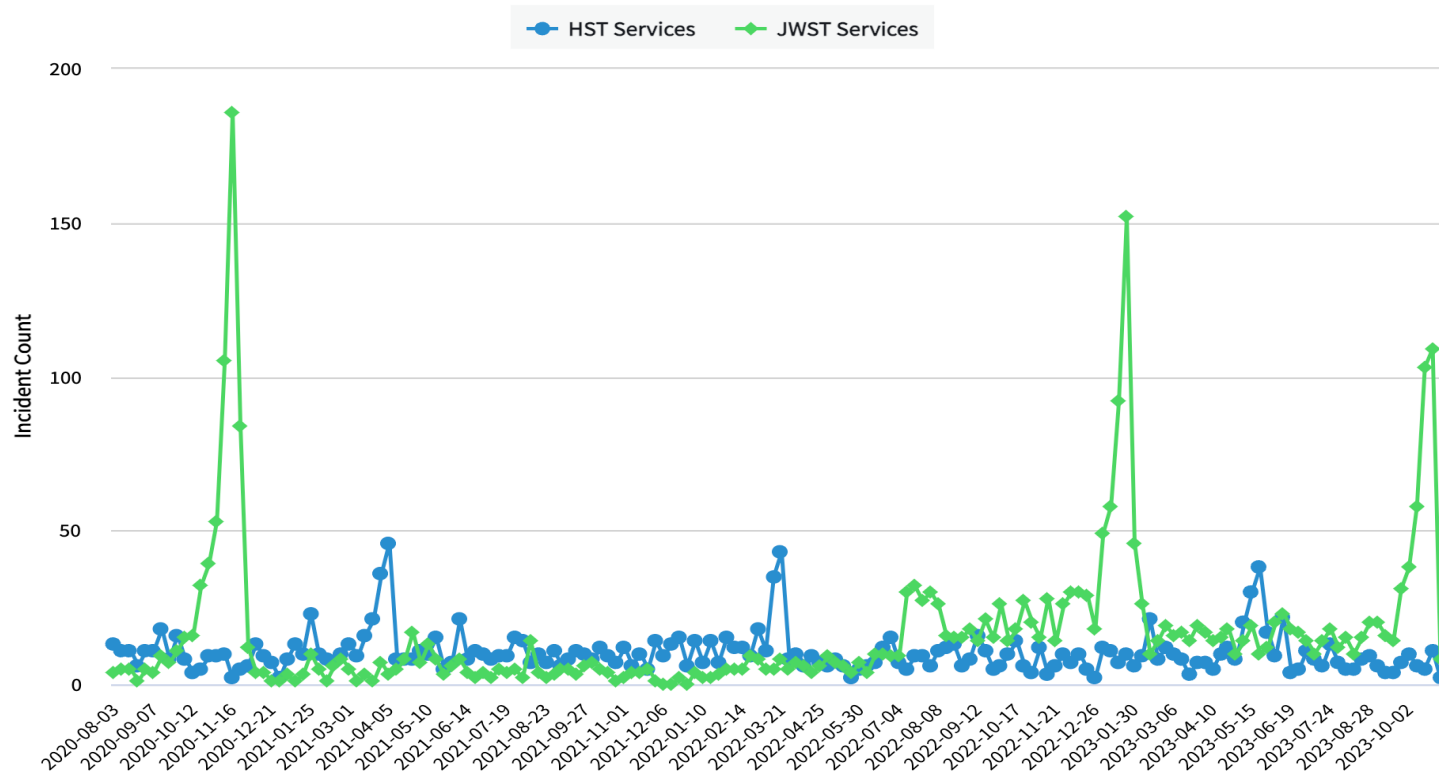
COUNTRY	USERS
United States	8.7K
United Kingdom	1.1K
Germany	897
China	731
India	673
Japan	642
Canada	636





JWST & HST Tickets vs Proposal Deadlines

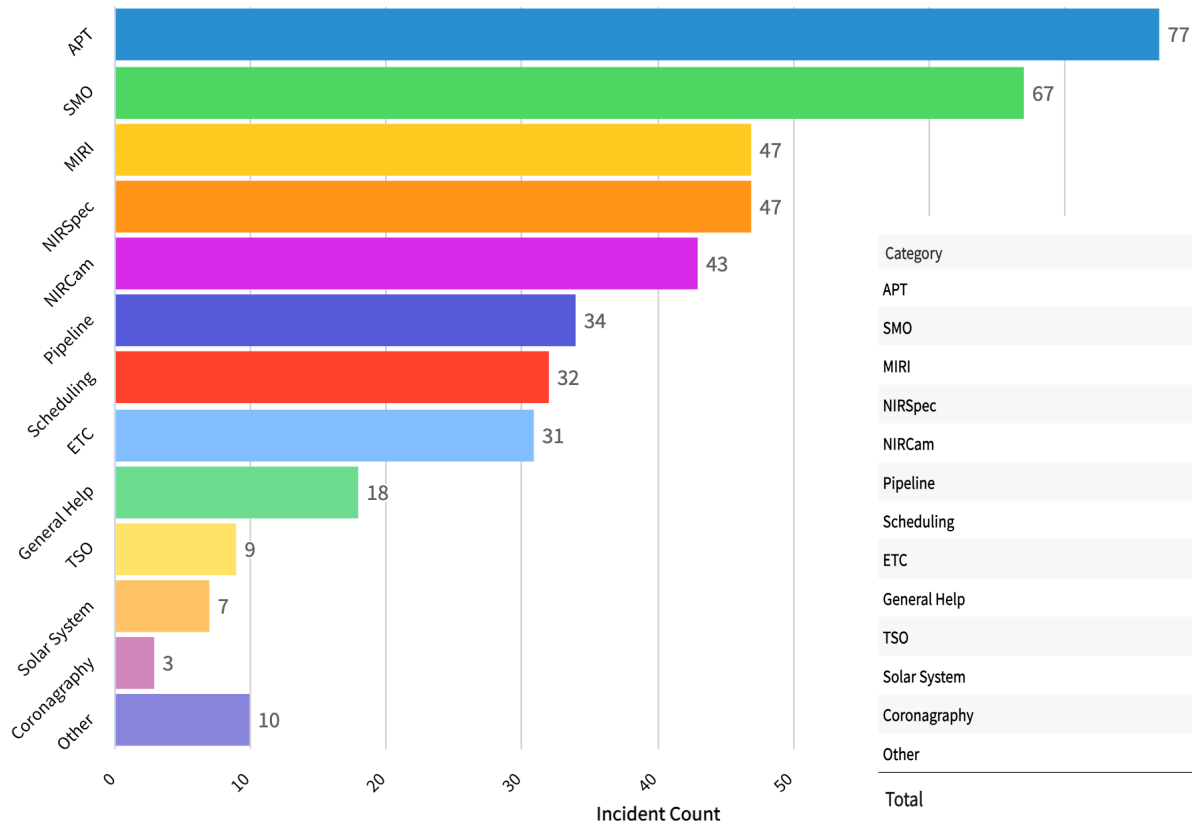
HST/JWST Deadlines (HST Cycle 29-31 and JWST Cycle 1-3)





JWST Help Desk Tickets

Cycle 3 Tickets per Category : 2023/08/10 - 2023/10/25

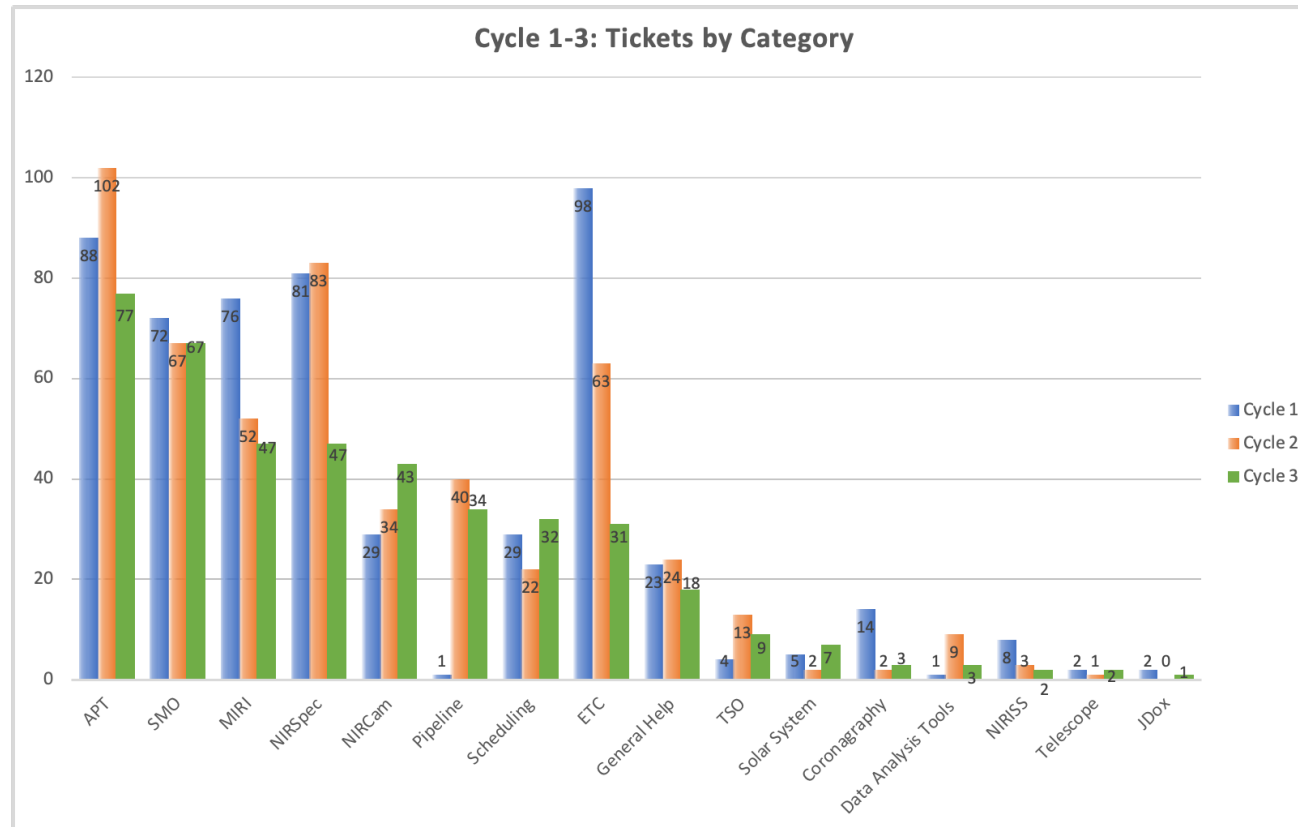


Top Fulfillers	
Karla Peterson	75
Brett Blacker	64
Bryan Hilbert	43
Bryan Holler	20

Category	Incident Count	Percentage of Count
APT	77	18.12%
SMO	67	15.76%
MIRI	47	11.06%
NIRSpec	47	11.06%
NIRCam	43	10.12%
Pipeline	34	8%
Scheduling	32	7.53%
ETC	31	7.29%
General Help	18	4.24%
TSO	9	2.12%
Solar System	7	1.65%
Coronagraphy	3	0.71%
Other	10	2.35%
Total	425	100%



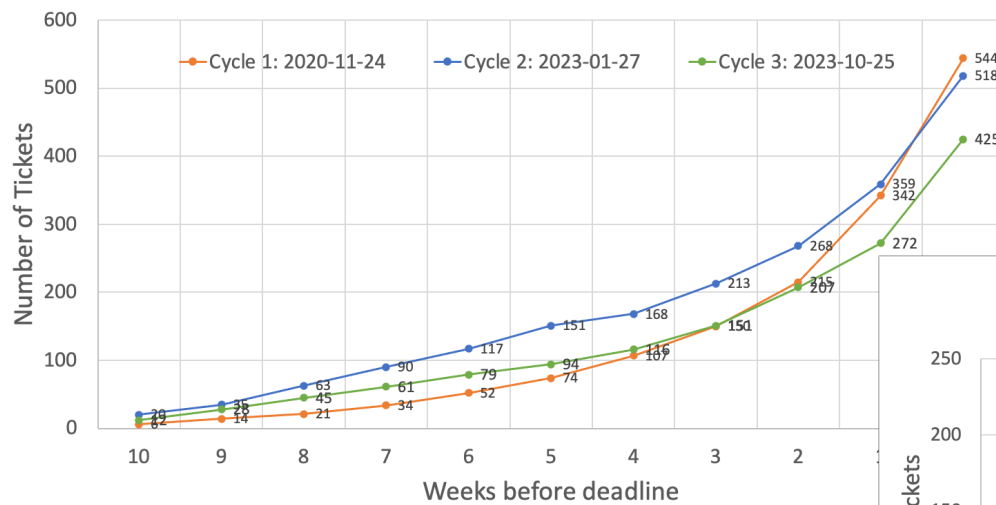
JWST Help Desk Tickets



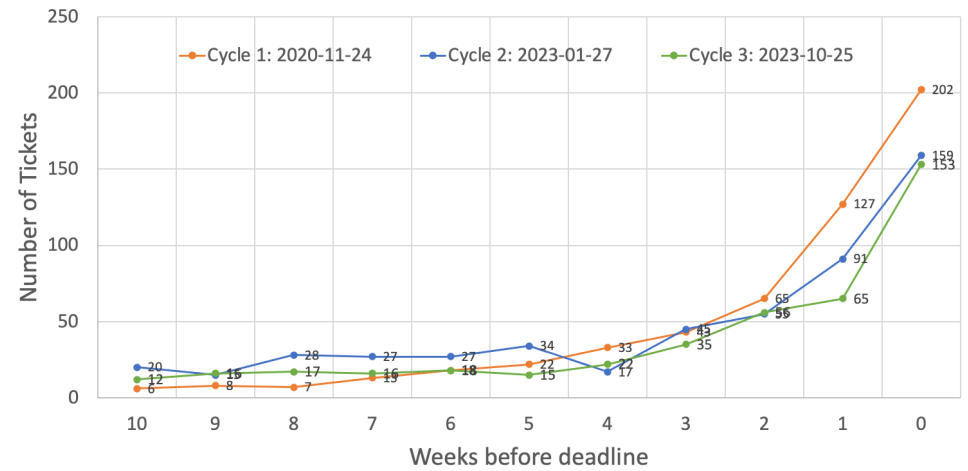


Tickets per week

Help Desk Tickets per Week - Running Total



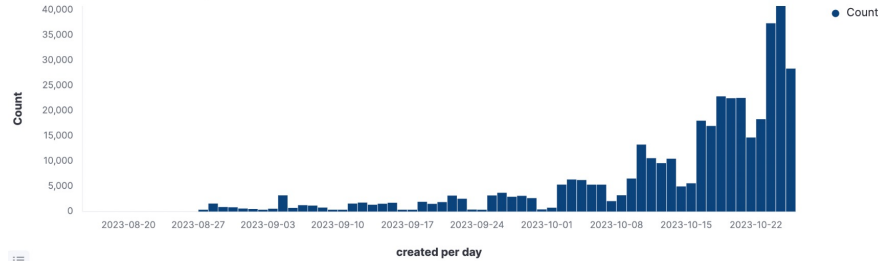
Help Desk Tickets per Week



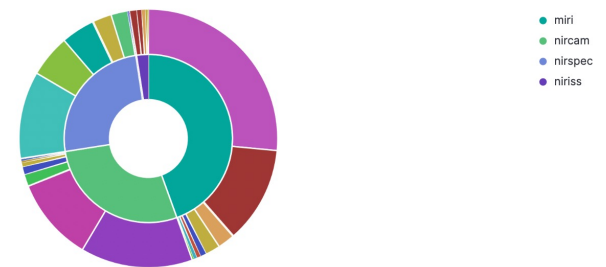


Exposure Time Calculator (ETC) Cycle 3: *ETC released Aug 24*

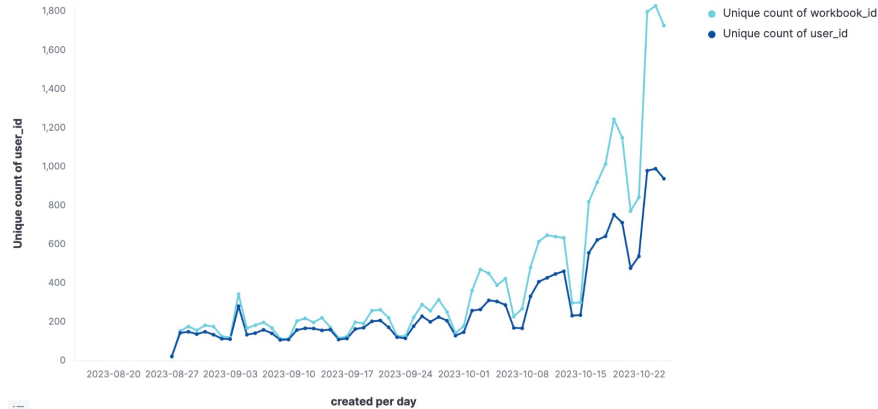
Monthly Report Calculations Per Day



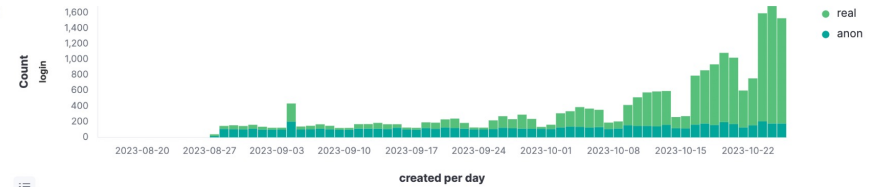
Perform Calculation Count Pie



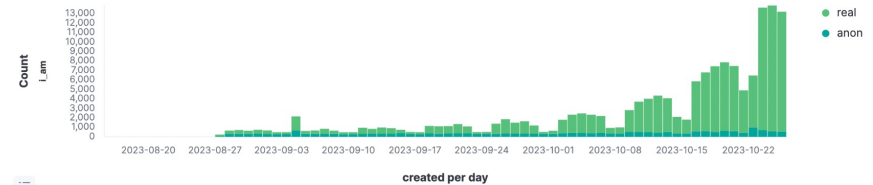
Monthly Unique Users and Workbooks



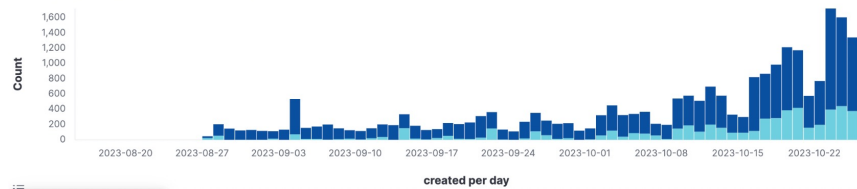
Monthly Report User Login Activity



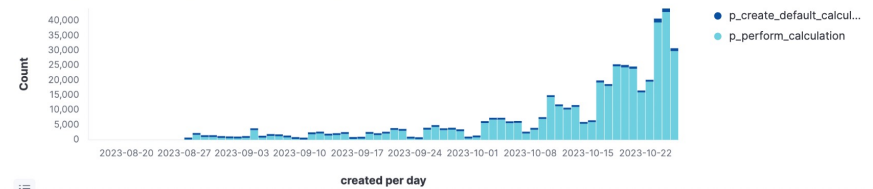
Monthly Report User PageLoad Activity



Monthly Report Created Calculations vs Expanded Calculations



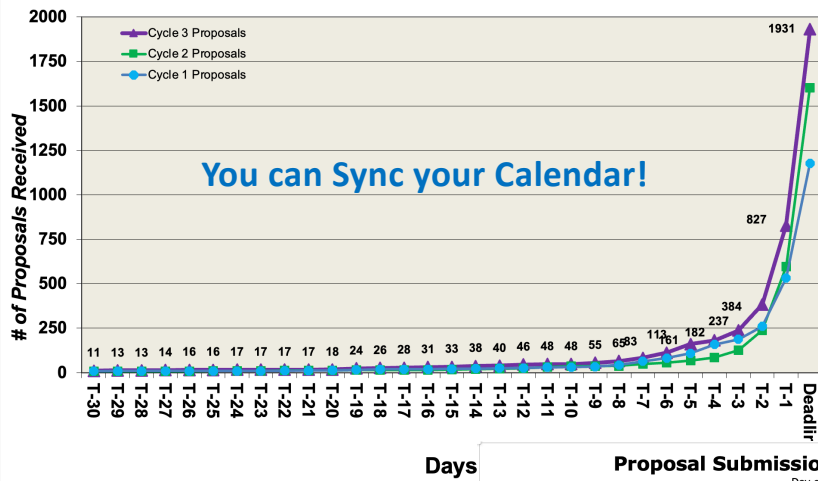
Monthly Report Created Calculations vs Performed Calculations



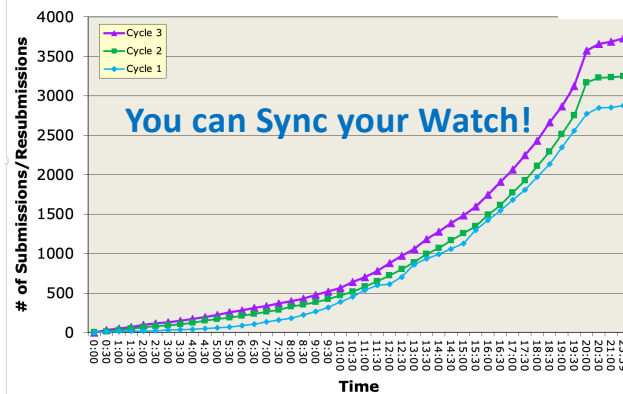
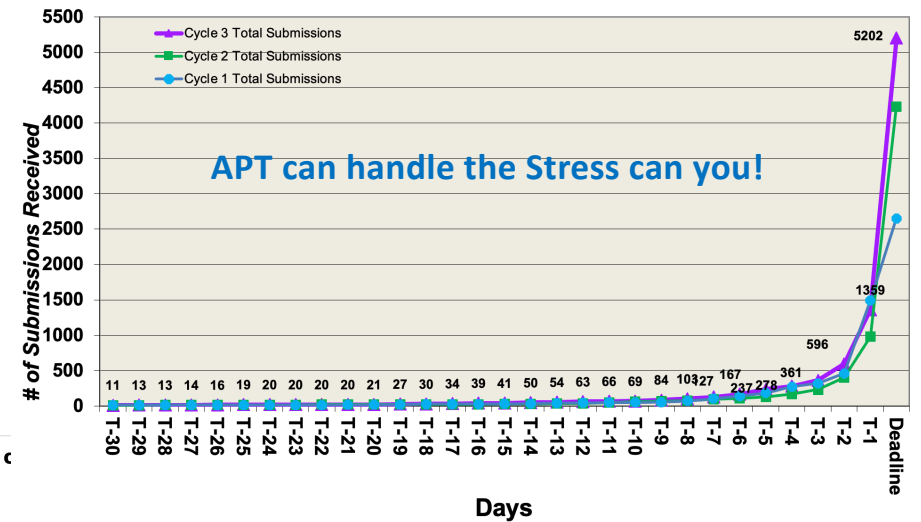


Astronomers follow predictable behaviors

JWST Proposal Submissions



JWST Proposal Total Submissions





Summary

- The JWST Cycle 3 GO/AR deadline was on October 25, 2023
 - A total of 1931 submissions were received by this date
- The 1931 (1601) complete proposals include
- 624 proposal led by ESA PIs (32.3%)
- 63 proposals led by Canadian PIs (3.3%)
 - 24031 (17987) Co-investigators in total
 - 6291 (5450) Unique investigators (PI, co-PI & co-I)
- Representation from
 - 57 (52) Countries
 - 47 US states + DC (*49 no Puerto Rico or US Virgin Islands this cycle + 1 state*)
- TAC meeting is scheduled for January 29 -Feb 2, 2024 and February 5 – 7, 2024 (Executive Committee)

(Cycle2 stats in parens)



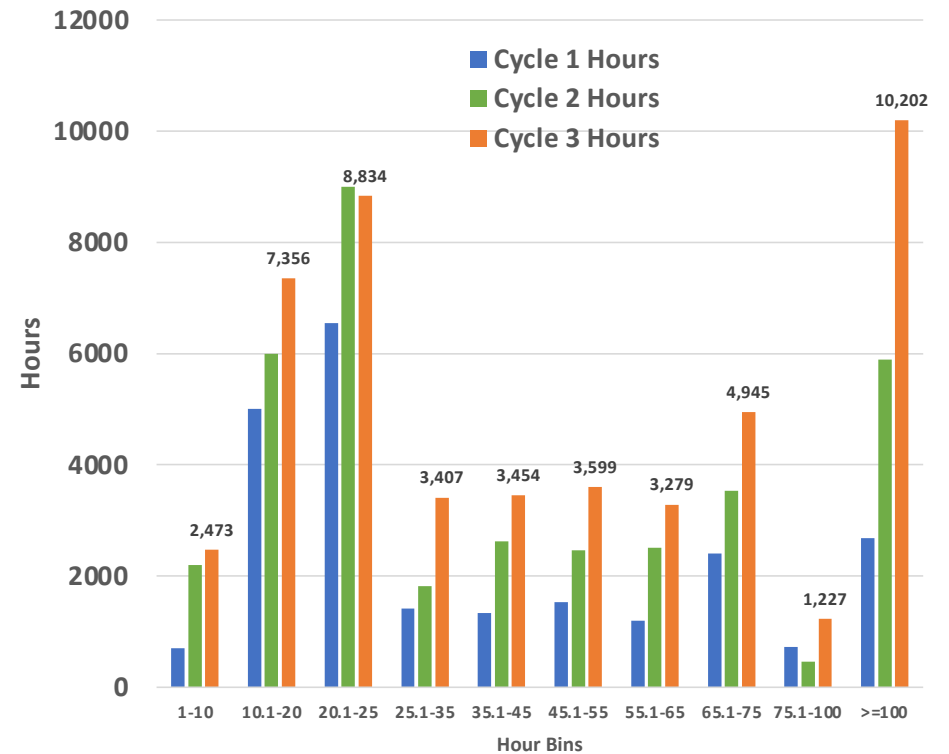
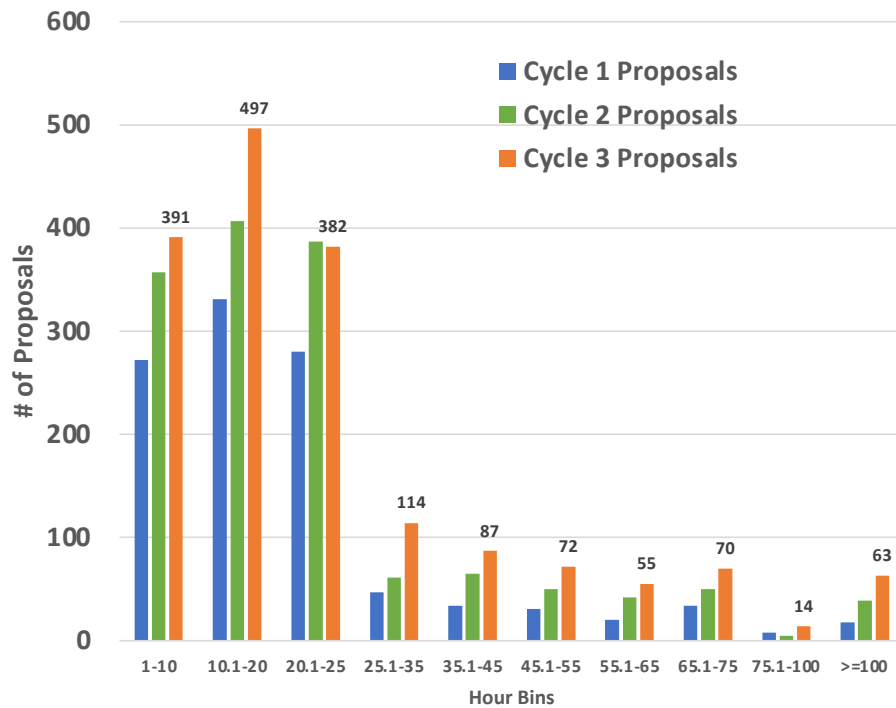
Proposals

- 1753 (1466) GO proposals for 48781 (36350) Hours, including
 - 1263 Small for ~18544 hours
 - 269 Medium for ~18561 hours
 - 89 Large for ~11676 hours
 - 30 Treasury for ~4183 hours
 - 7 GO Calibration for ~151 hours
 - 8 Pure Parallel proposals for 3334 hours
- 39 (31) Survey proposals
- 139 (104) Archival Research
 - 74 Regular
 - 53 Theory
 - 12 Legacy
 - 2 Calibrations
 - 2 Cloud Computing
 - 10 Data Science Software

(Some proposals are in multiple categories)

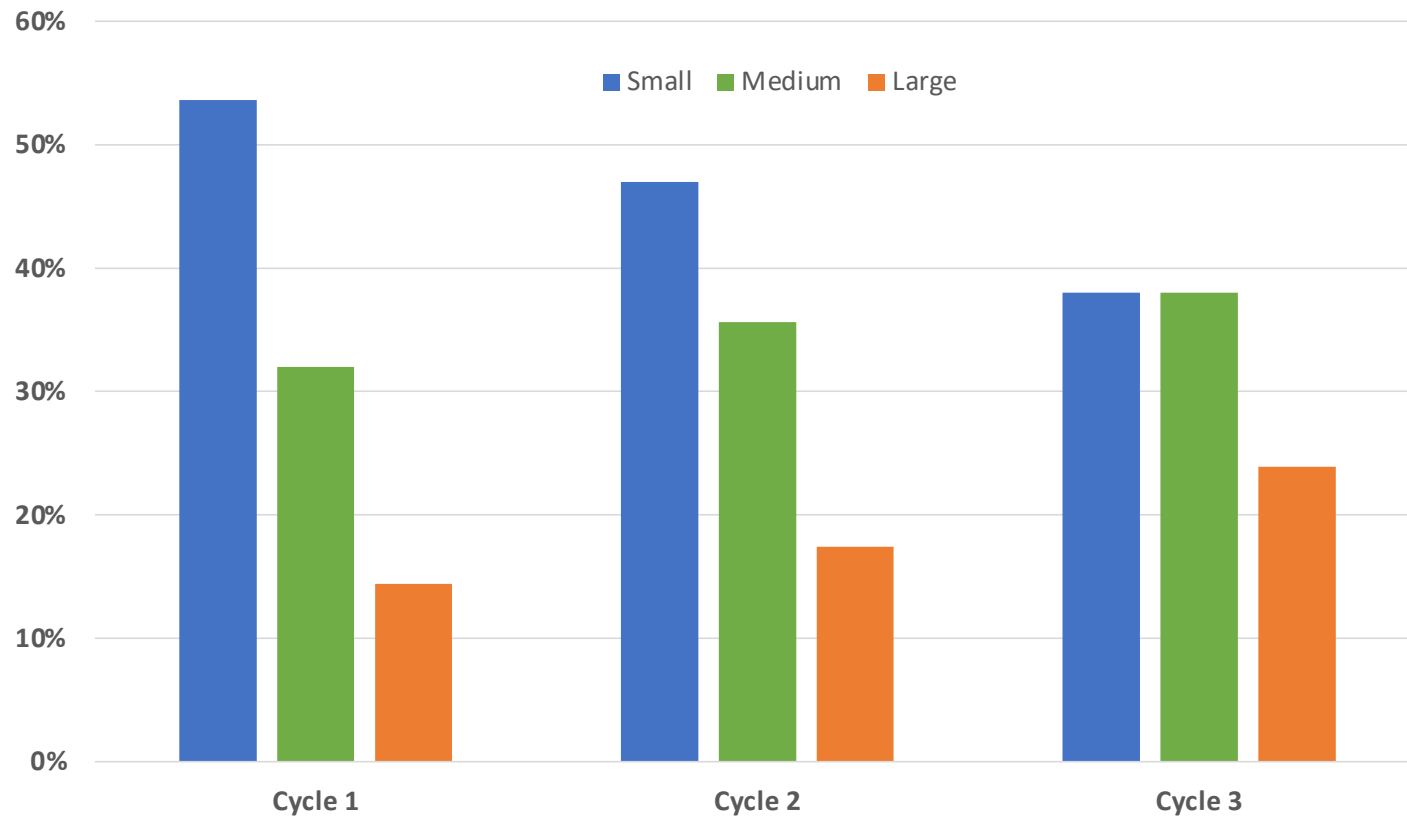


Proposal Size Distribution for Proposals and Hours



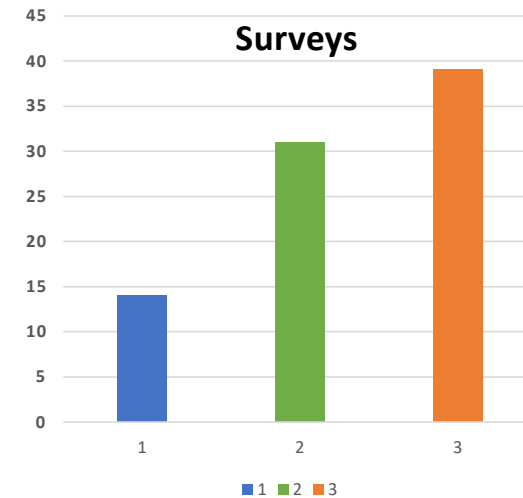
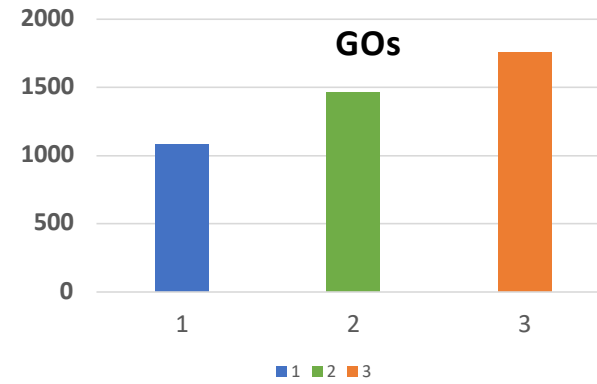
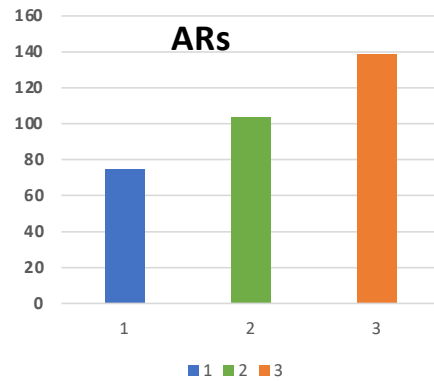
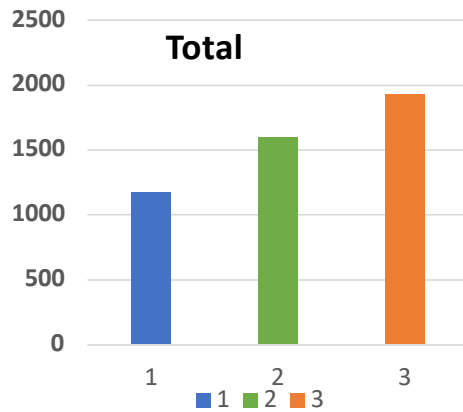


Fraction of time by Proposal Size



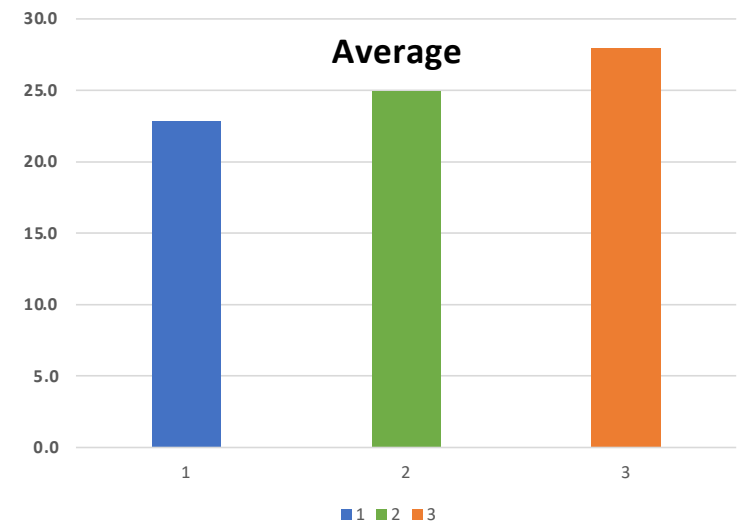
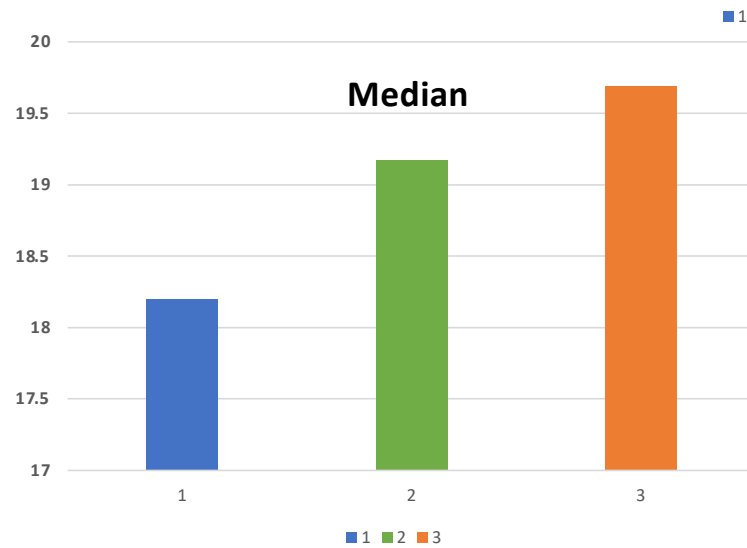
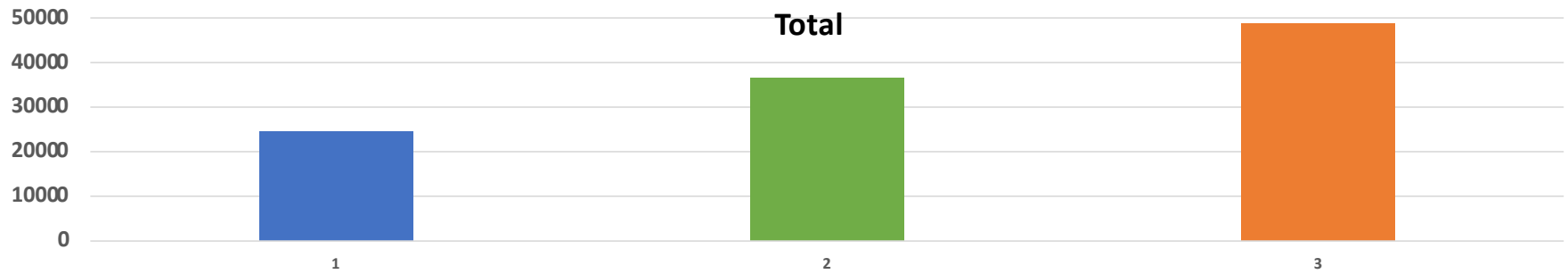


Proposal Numbers



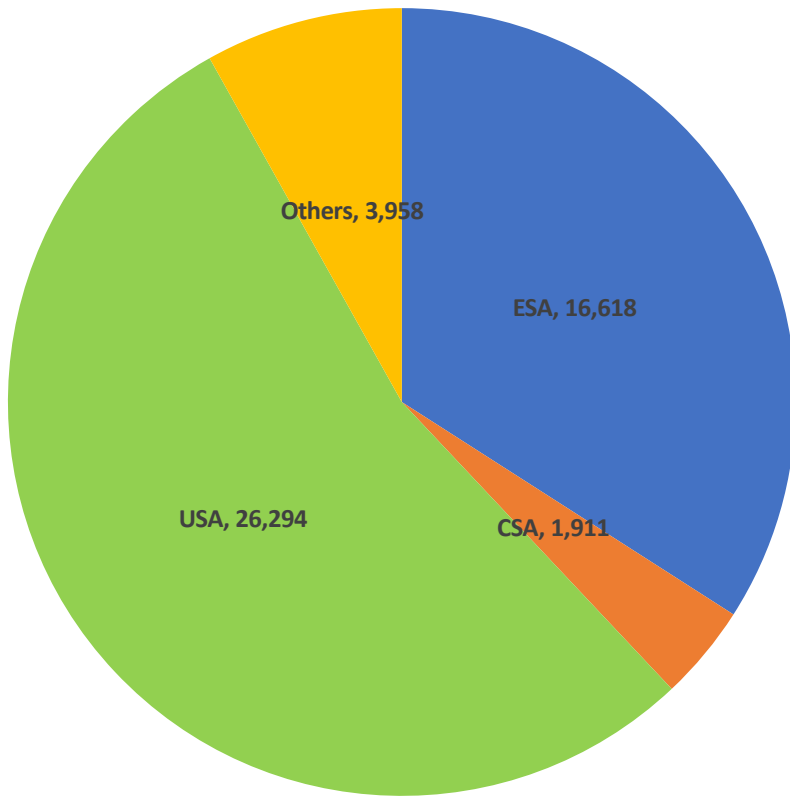


Hours Requested

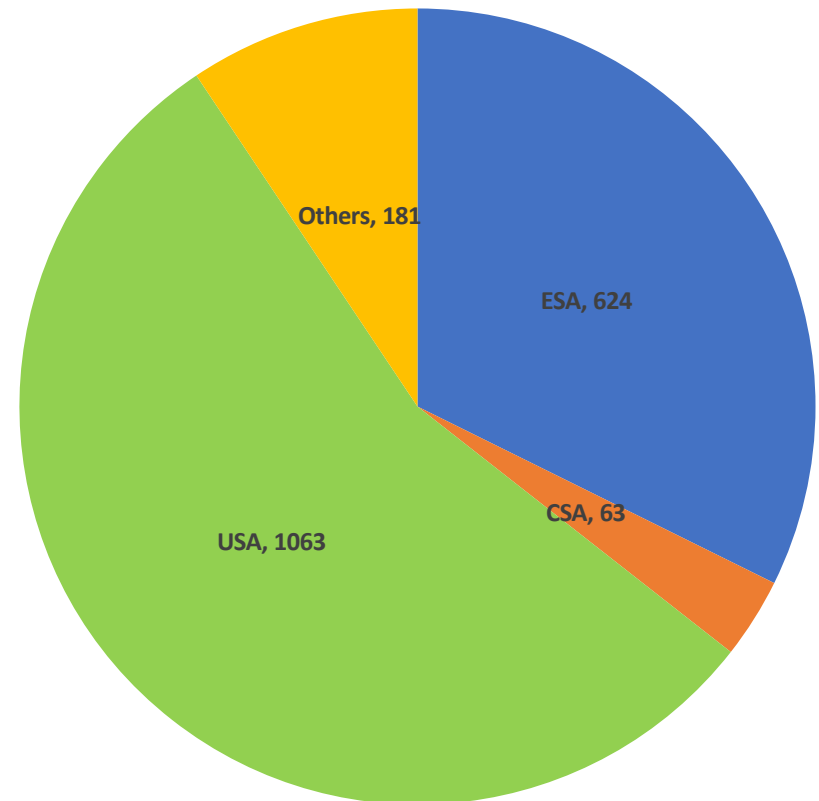




Hours and Proposals around the World



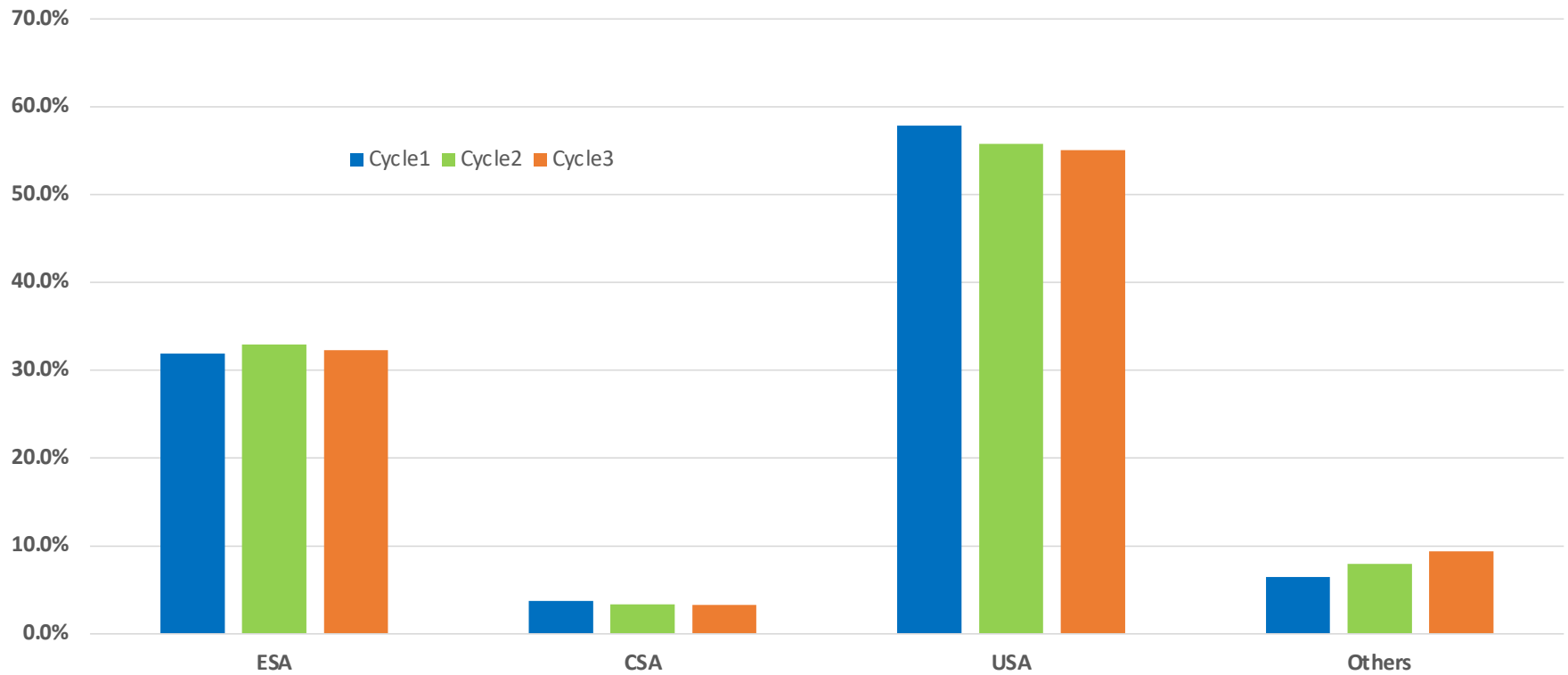
Hours



Proposals

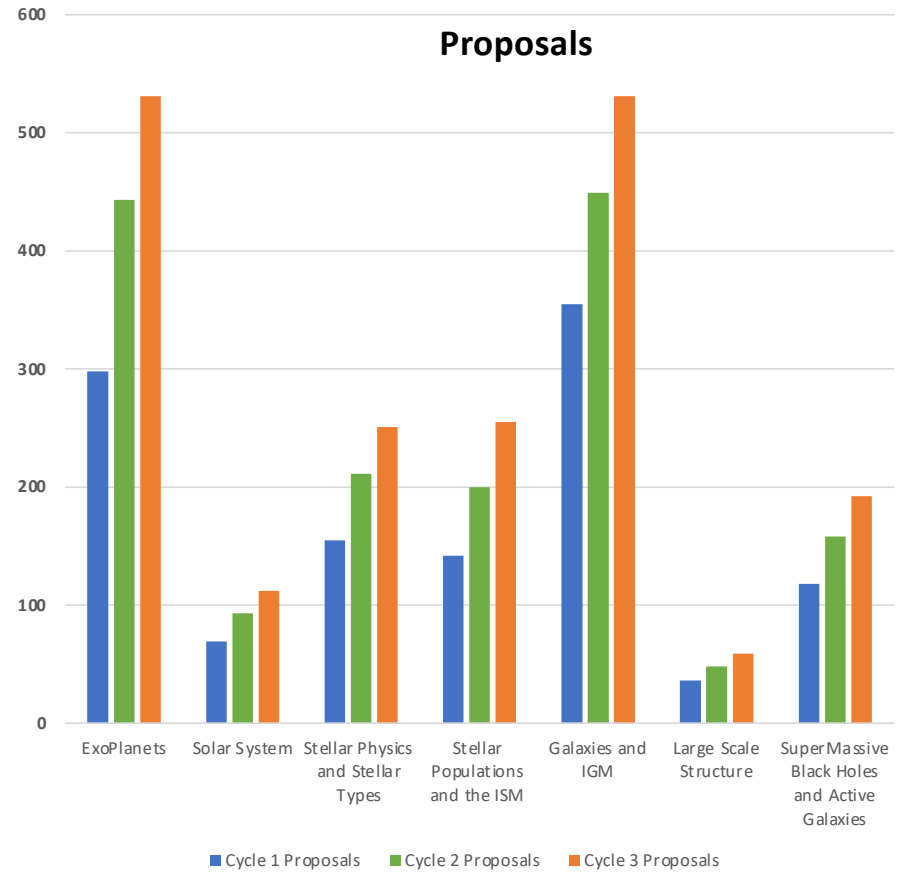
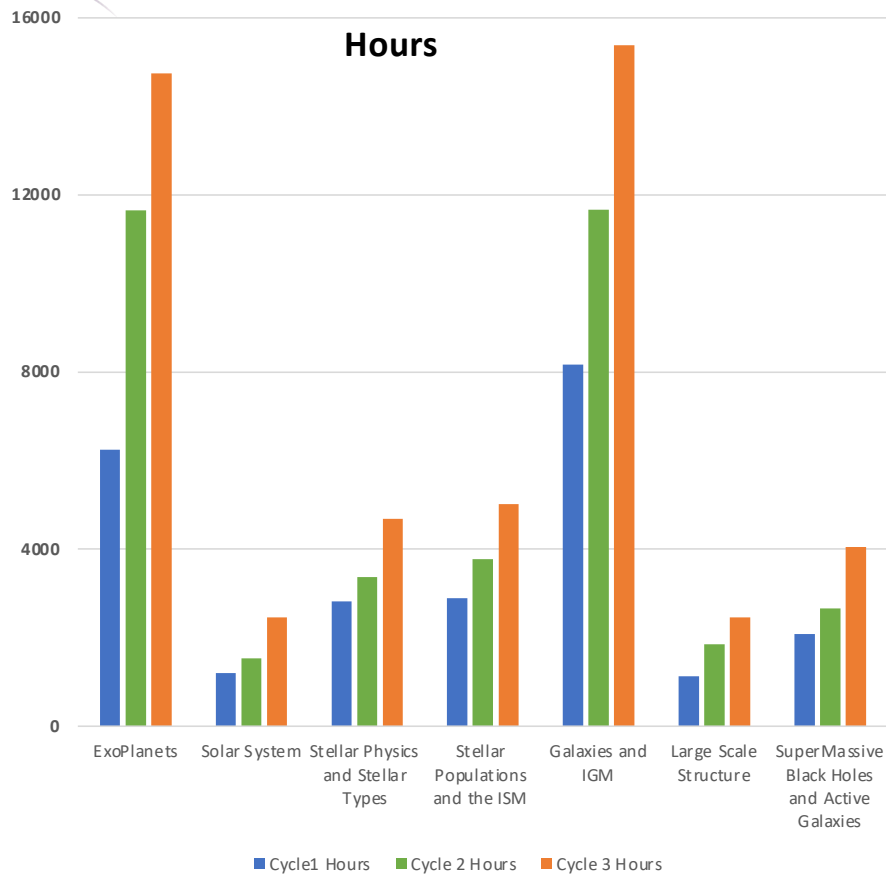


Geographic request by Cycle



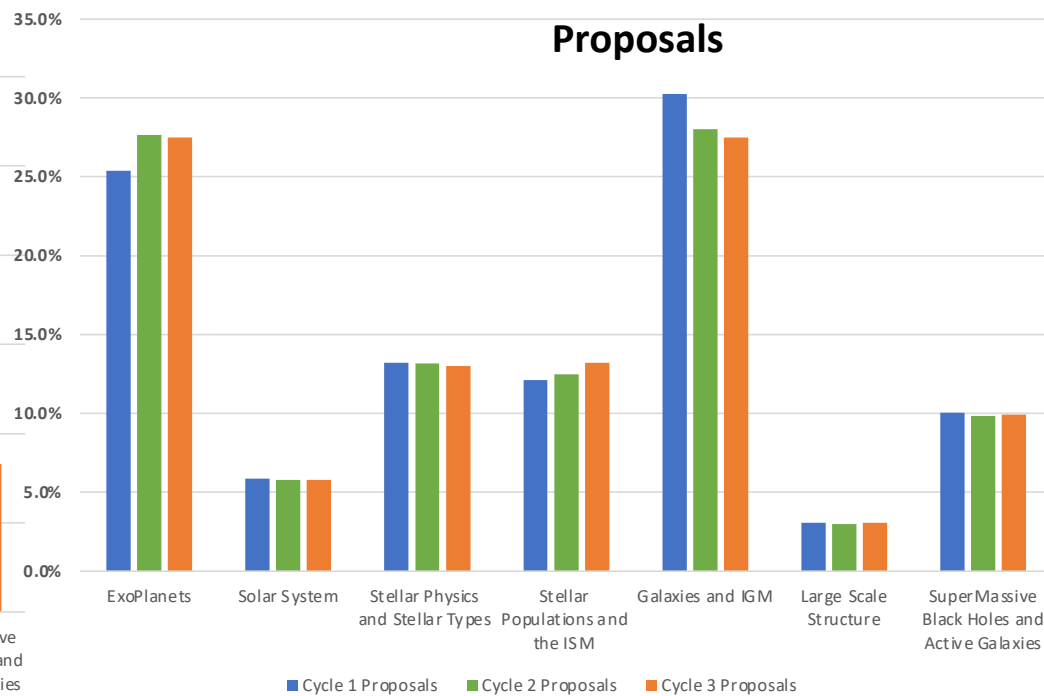
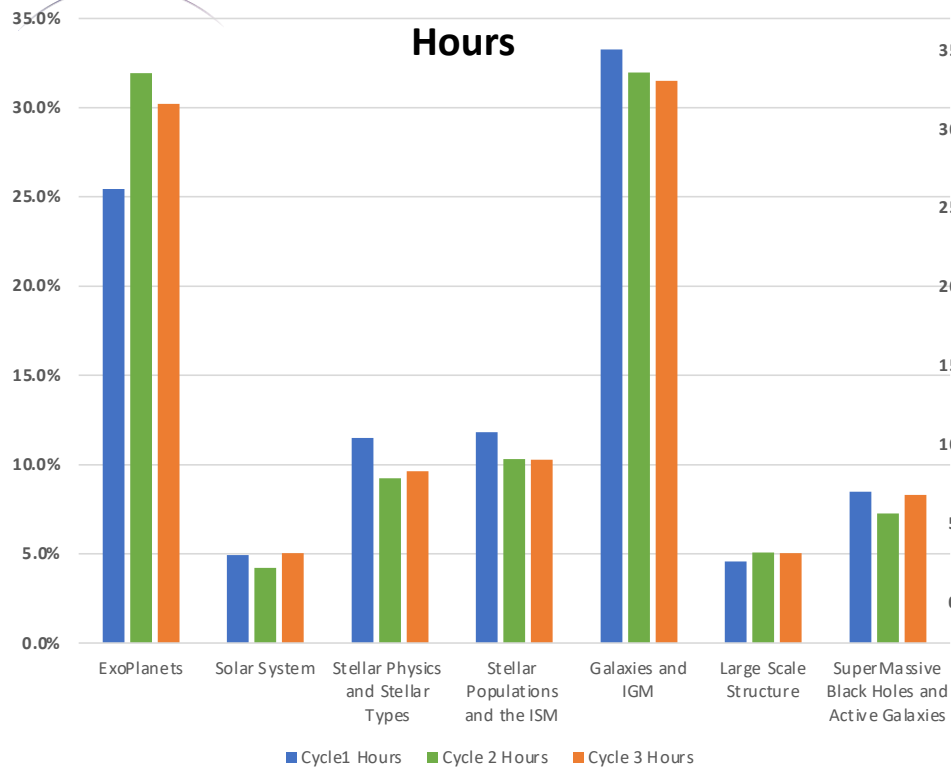


Science Categories





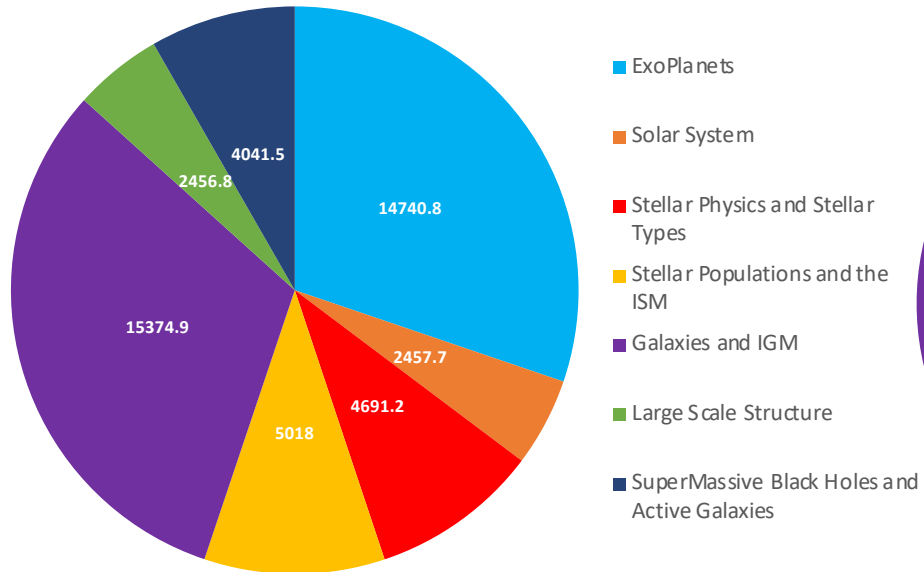
Science Categories as fraction of Program



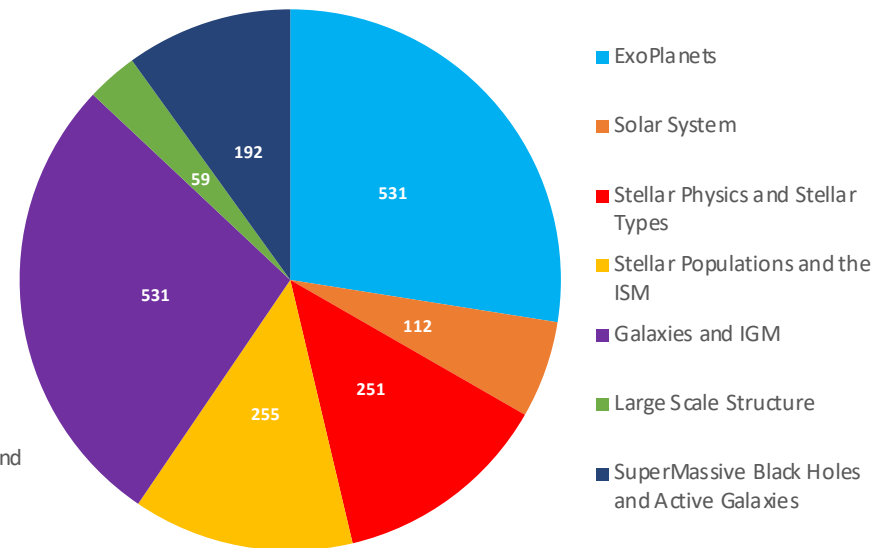


Science Categories

Hours

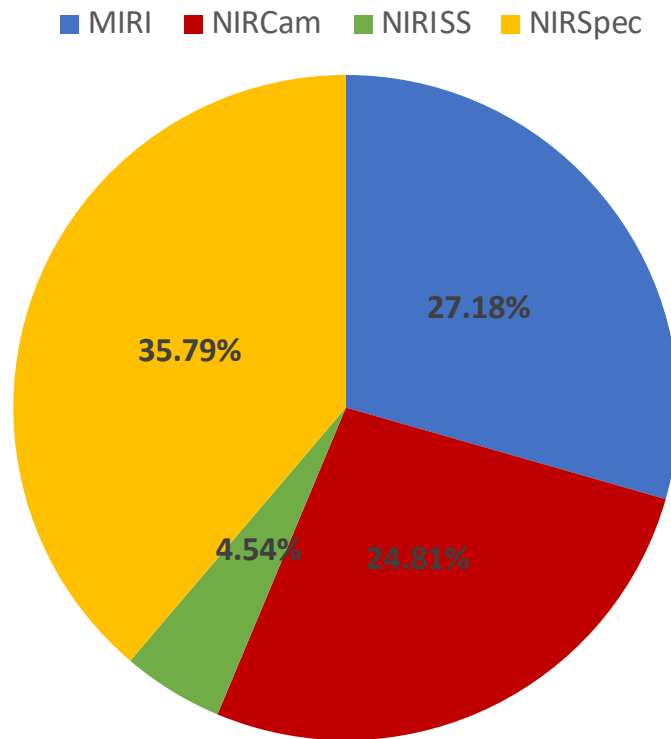


Proposals





Instruments by Proposal





Instrument modes – prime only

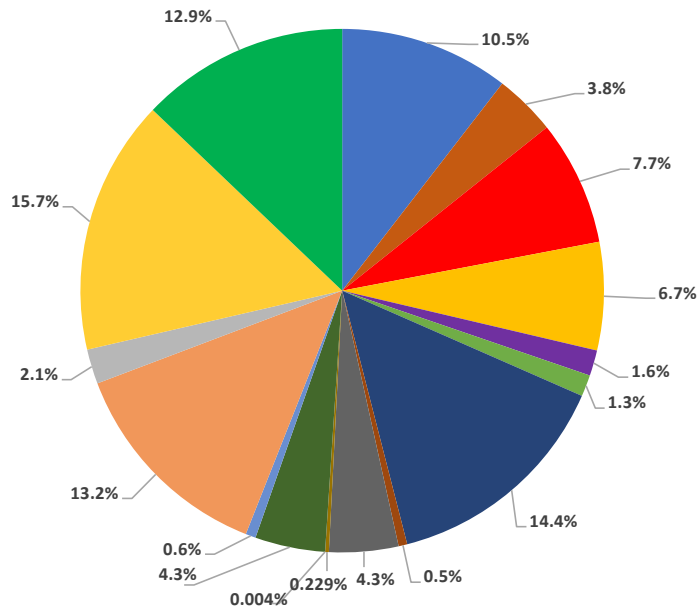
Mode	Prime %
MIRI Medium Resolution Spectroscopy	10.5%
MIRI Coronagraphy	3.8%
MIRI Imaging	7.7%
MIRI LRS	6.7%
NIRCam Coronagraphy	1.6%
NIRCam GrismTimeSeries	1.3%
NIRCam Imaging	14.4%
NIRCam TimeSeries	0.5%
NIRCam WFSS	4.3%
NIRISS Imaging	0.2%
NIRISS AMI	0.004%
NIRISS SOSS	4.3%
NIRISS WFSS	0.6%
NIRSpec BrightObjectTimeSeries	13.2%
NIRSpec FixedSlitSpectroscopy	2.1%
NIRSpec IFUSpectroscopy	15.7%
NIRSpec MOS	12.9%



Requested Modes

- MIRI Medium Resolution Spectroscopy
- MIRI Coronagraphy
- MIRI Imaging
- MIRI LRS
- NIRCm Coronagraphy
- NIRCm GrismTimeSeries
- NIRCm Imaging
- NIRCm TimeSeries
- NIRCm WFSS
- NIRISS Imaging
- NIRISS AMI
- NIRISS SOSS
- NIRISS WFSS
- NIRSpec BrightObjectTimeSeries
- NIRSpec FixedSlitSpectroscopy
- NIRSpec IFUSpectroscopy
- NIRSpec MOS

72% Spectroscopy vs 28% Imaging





Special categories

- **Target of Opportunity proposals**
 - 1 Ultra disruptive proposals requesting 23 hours
 - 4 disruptive proposals requesting 78 hours
 - 40 non-disruptive proposals requesting 1105 hours
 - 2 disruptive/non-disruptive proposals requesting 59 hours (subset of above)
- **Joint Observatories**
 - ALMA: 22 proposals requesting 118 hours and 299 JWST hours
 - Chandra: 5 proposals requesting 196 Ksecs and 85 JWST hours
 - HST: 30 proposals requesting 258 orbits and 722 JWST hours
 - Keck: 8 proposals requesting 12.5 nights and 165 JWST hours
 - XMM: 3 proposals requesting 160 Ksecs and 24 JWST hours
 - NOIRLab: 7 proposals requesting 12 nights and JWST 100 Prime + 254 PPAR hours
 - NRAO: 2 proposals requesting 19 hours and 49 JWST hours
- **Long-term proposals**
 - 37 proposals requesting 929 hours in Cycle 4
 - 24 proposals requesting 402 hours in Cycle 5



Archival Research and Calibrations

- 139 Archival Research
 - 74 Regular
 - 53 Theory
 - 12 Legacy
 - 2 Calibrations
 - 2 Cloud Computing
 - 10 Data Science Software
- 9 Calibrations
 - 7 GO for 151 hours
 - 2 Archival Research

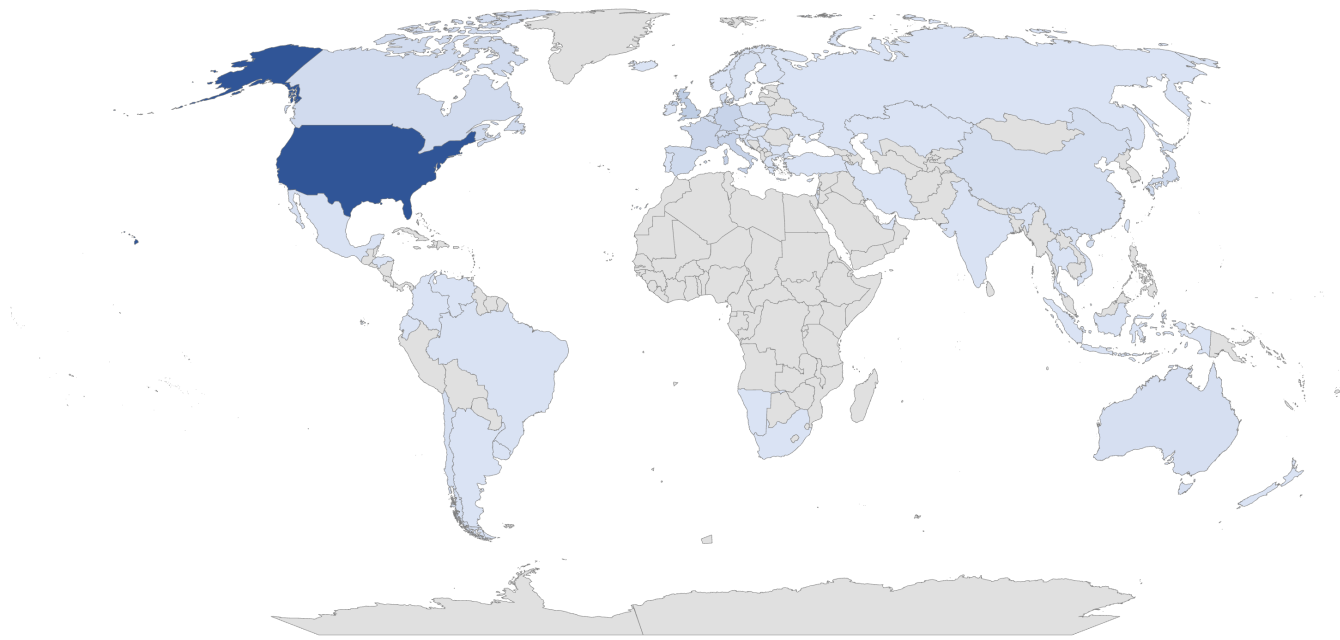


Personnel

- Overall,
 - 25,962 investigators, including 6291 unique investigators (5450)
 - 56 (52) Countries
 - 47 US states + DC and Puerto Rico (49 no US Virgin Islands this cycle)
 - 925 Unique Institutions
 - 361 serving Minority Institutions
 - 1931 PIs, including 1436 unique investigators from 36 countries, 41 states and DC
 - 1008 Co-PIs, including 738 unique investigators from 32 countries and 36 states and DC
 - 23,023 Co-Is, including 6008 unique investigators from 57 countries, 47 US states and DC (17987, 5161 unique in Cycle 2)
- ESA
 - 624 PIs (32.3%)
 - 346 Co-PIs (34.3%) and 9194 Co-I (39.9%)
- Canada
 - 63 PIs (3.3%)
 - 61 Co-PIs (6.1%) and 572 (2.6%) Co-Is



JWST Investigators around the World: Truly the World's Telescope

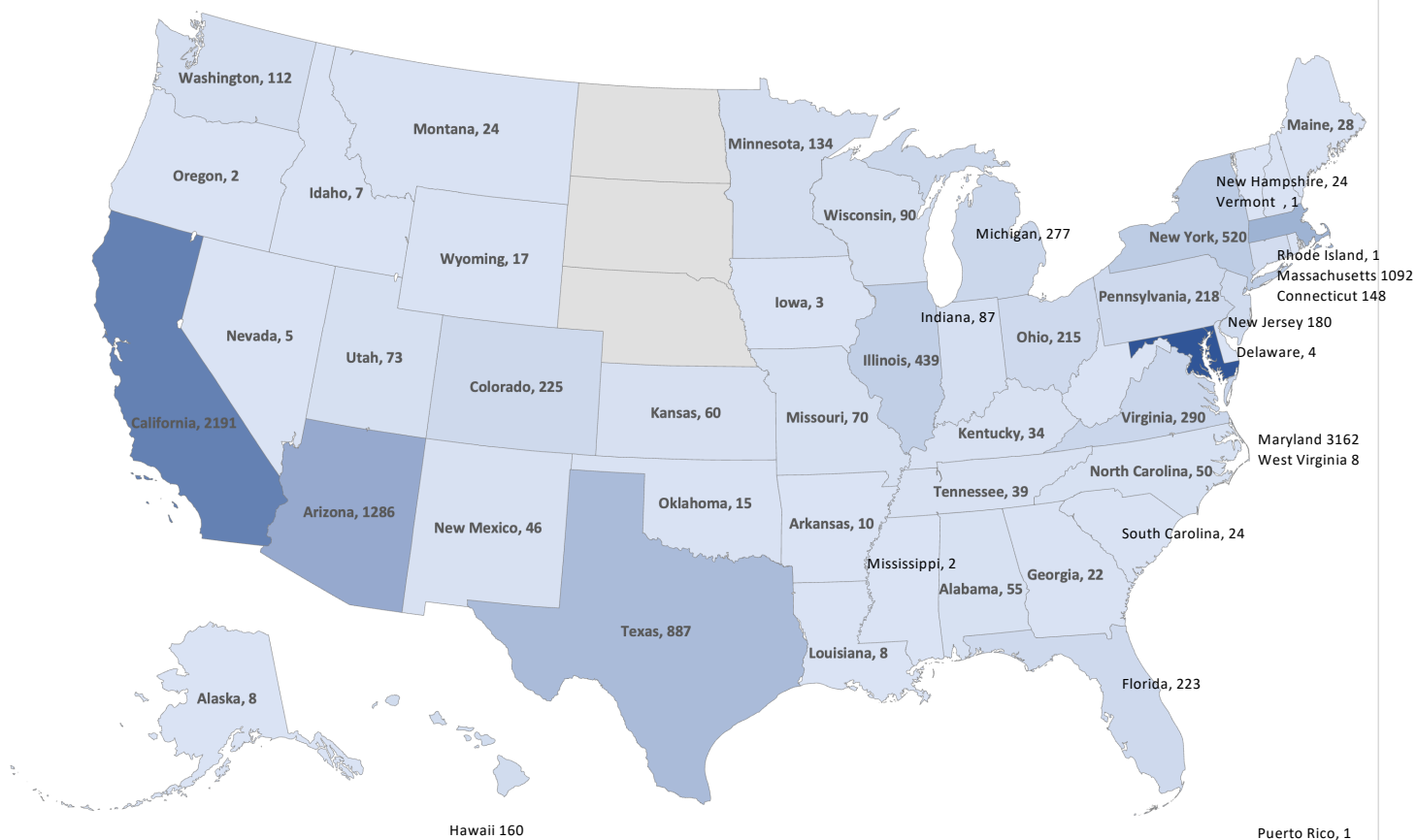


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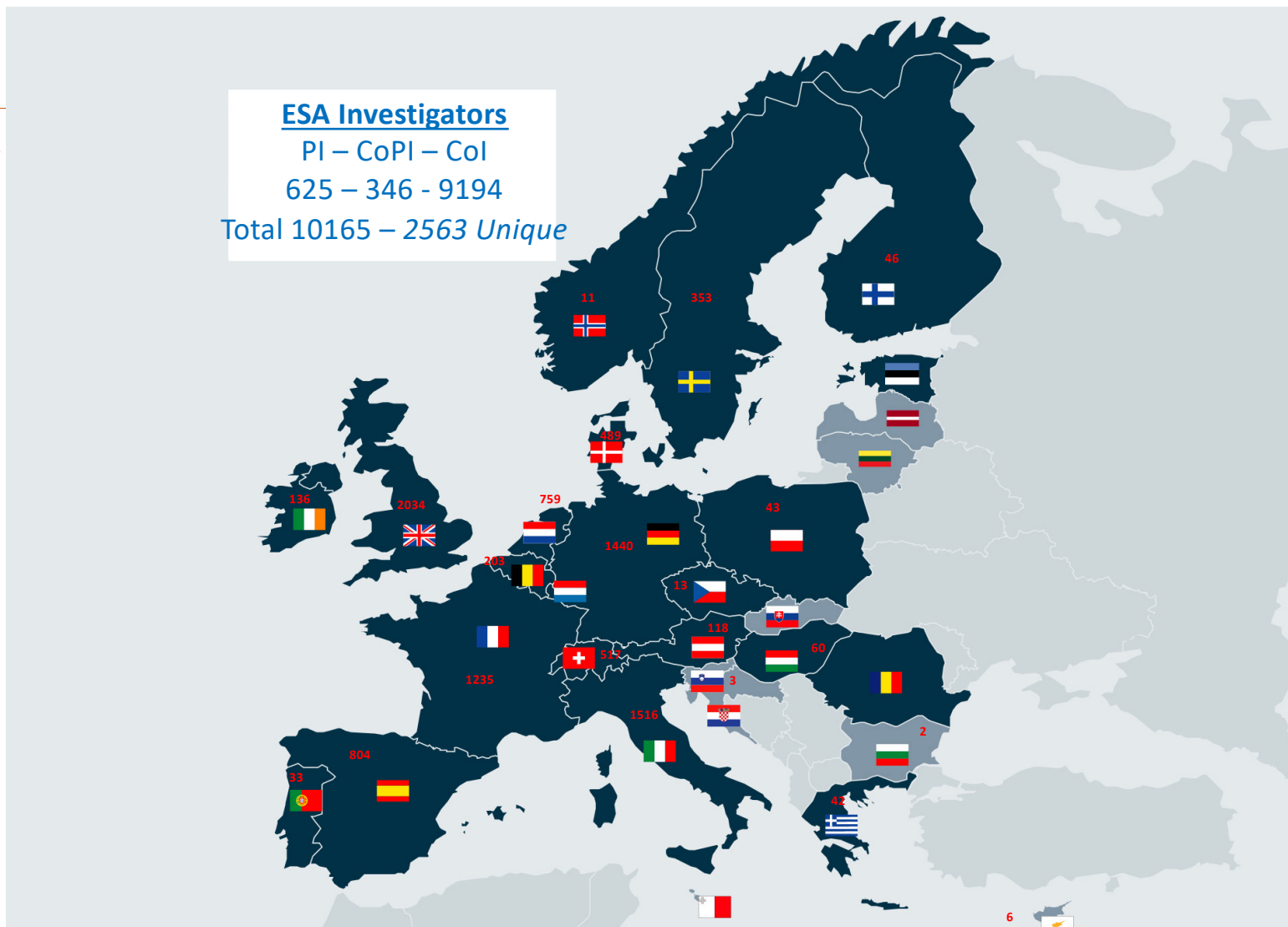
US Investigators



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ESA Investigators
PI – CoPI – CoI
625 – 346 - 9194
Total 10165 – 2563 *Unique*





Canadian Investigators



PI – CoPI – Col
63 – 61 – 572
696 – 180 *Unique*
5 STScI CSA

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Investigators by country

Country	PI	Co-PI	Co-I	Country	PI	Co-PI	Co-I	Country	PI	Co-PI	Co-I
Argentina	0	2	7	Honduras	0	0	2	Serbia	0	0	4
Australia	18	10	291	Hungary	5	2	53	Slovenia	3	2	27
Austria	9	2	107	Iceland	0	0	6	South Africa	0	0	20
Belgium	12	10	181	India	9	3	86	Spain	44	34	726
Brazil	6	2	38	Indonesia	0	0	1	Sweden	28	16	309
Bulgaria	0	0	2	Iran	1	1	2	Switzerland	29	11	477
Canada	63	61	592	Ireland	7	7	122	Taiwan	12	6	100
Chile	24	14	305	Israel	4	2	100	Thailand	3	0	25
China	29	38	387	Italy	96	43	1377	The Netherlands	47	22	690
Columbia	0	0	2	Japan	66	16	660	The Vatican	0	0	2
Croatia	0	0	3	Kazakhstan	0	0	1	Turkey	1	1	14
Cyprus	0	0	6	Korea	2	2	66	Ukraine	0	0	4
Czech Republic	1	0	12	Mexico	3	5	53	United Arab Emirates	0	0	1
Denmark	21	14	454	Namibia	0	0	1	United Kingdom	141	75	1818
Ecuador	0	0	1	New Zealand	0	0	2	United States	1082	506	11279
Finland	9	0	37	Norway	3	0	8	Uruguay	0	0	1
France	59	42	1134	Poland	3	0	40	Venezuela	0	0	1
Germany	85	55	1300	Portugal	2	1	30	Vietnam	0	0	2
Greece	3	2	36	Russia	1	1	18				



Investigators by US State and Territory

Country	PI	Co-PI	Co-I	Country	PI	Co-PI	Co-I	Country	PI	Co-PI	Co-I
Alabama	8	2	45	Kentucky	5	2	27	Oklahoma	2	0	13
Alaska	0	2	6	Louisiana	1	0	7	Oregon	1	0	1
Arizona	94	71	1121	Maine	2	0	26	Pennsylvania	18	5	195
Arkansas	0	1	9	Maryland	221	101	2840	Puerto Rico	0	0	1
California	190	85	1916	Massachusetts	102	57	933	Rhode Island	0	0	1
Colorado	22	9	194	Michigan	30	16	231	South Carolina	5	1	18
Connecticut	9	3	136	Minnesota	12	5	117	Tennessee	3	3	33
Delaware	1	1	2	Mississippi	0	0	2	Texas	70	36	781
District of Columbia	22	12	256	Missouri	13	2	55	Utah	9	2	62
Florida	25	9	189	Montana	4	4	16	Vermont	0	0	1
Georgia	1	1	20	Nevada	0	1	4	Virginia	29	22	239
Hawaii	17	2	141	New Hampshire	1	0	23	Washington	8	1	103
Idaho	3	0	4	New Jersey	11	3	166	West Virginia	1	1	6
Illinois	44	15	380	New Mexico	7	2	37	Wisconsin	10	0	80
Indiana	9	3	75	New York	43	13	464	Wyoming	1	1	15
Iowa	1	0	2	North Carolina	4	2	44				
Kansas	2	3	55	Ohio	21	7	187				