



National Aeronautics and
Space Administration

2023 NASA SCIENCE

**NASA Science Mission
Directorate SmallSats Update**

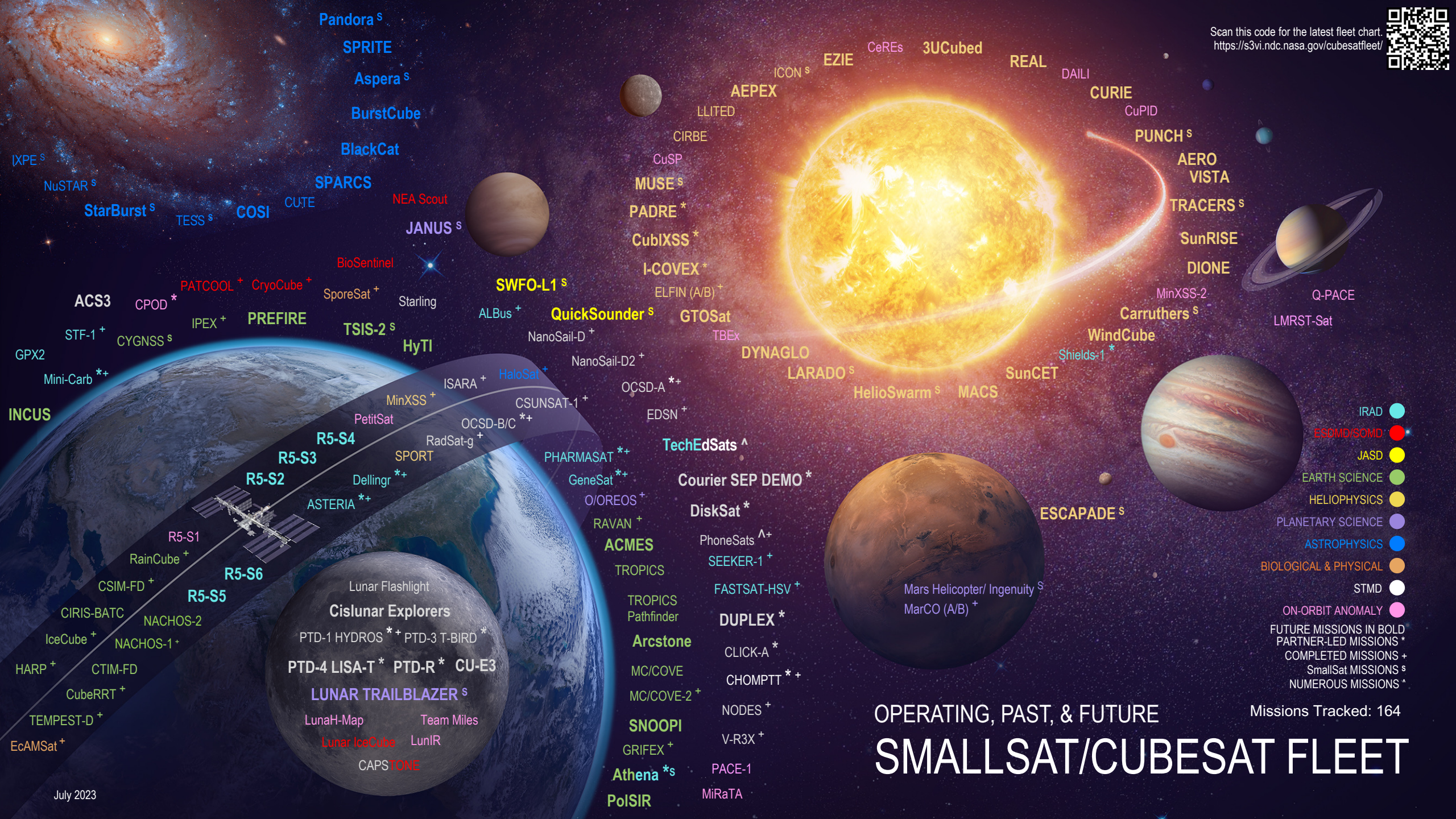
Florence Tan

Chair, Small Spacecraft Coordination Group
NASA Headquarters

August 2023



Scan this code for the latest fleet chart.
<https://svi.ndc.nasa.gov/cubesatfleet/>



Pandora^s
SPRITE
 Aspera^s
 BurstCube
 BlackCat
 SPARCS
 NEA Scout
 JANUS^s
 BioSentinel
 SporeSat⁺
 Starling
 SWFO-L1^s
 ALBus⁺
 QuickSounder^s
 GTOSat
 TBEx
 DYNAGLO
 LARADO^s
 HelioSwarm^s
 MACS
 SunCET
 Shields-1^{*}
 WindCube
 Carruthers^s
 MinXSS-2
 Q-PACE
 LMRST-Sat

ICON^s
EZIE
CeREs
3UCubed
REAL
DAILI
CURIE
 CuPID
PUNCH^s
AERO VISTA
TRACERS^s
SunRISE
DIONE
 IXPES^s
 NuSTAR^s
 StarBurst^s
 TESS^s
 COSI
 CUTE
 ACS3
 CPOD^{*}
 PATCOOL⁺
 CryoCube⁺
 SporeSat⁺
 Starling
 STF-1⁺
 CYGNSS^s
 IPEX⁺
 PREFIRE
 TSIS-2^s
 HyTI
 NanoSail-D⁺
 QuickSounder^s
 GTOSat
 TBEx
 NanoSail-D2⁺
 DYNAGLO
 LARADO^s
 HelioSwarm^s
 MACS
 SunCET
 Shields-1^{*}
 WindCube
 Carruthers^s
 MinXSS-2
 Q-PACE
 LMRST-Sat

GPX2
Mini-Carb^{}**
INCUS
 ISARA⁺
 HaloSat⁺
 CSUNSAT-1⁺
 OCS-D-A^{**}
 EDSN⁺
 PHARMASAT^{**}
 GeneSat^{**}
 O/OREOS⁺
 RAVAN⁺
ACMES
 TROPICS
 TROPICS Pathfinder
Arcstone
 MC/COVE
 MC/COVE-2⁺
SNOOPI
 GRIFEX⁺
Athena^{*s}
PolSIR

TECHEDSATS
 Courier SEP DEMO^{*}
 DiskSat^{*}
 PhoneSats^{^+}
 SEEKER-1⁺
 FASTSAT-HSV⁺
 DUPLEX^{*}
 CLICK-A^{*}
 CHOMPTT^{**+}
 NODES⁺
 V-R3X⁺
 PACE-1
 MiRaTA

IRAD
ESBMD/SOMD
JASD
EARTH SCIENCE
HELIOPHYSICS
PLANETARY SCIENCE
ASTROPHYSICS
BIOLOGICAL & PHYSICAL
STMD
ON-ORBIT ANOMALY
FUTURE MISSIONS IN BOLD
PARTNER-LED MISSIONS^{*}
COMPLETED MISSIONS⁺
SmallSat MISSIONS^s
NUMEROUS MISSIONS[^]

R5-S1
 RainCube⁺
 CSIM-FD⁺
 CIRIS-BATC
 IceCube⁺
 NACHOS-2
 NACHOS-1⁺
 HARP⁺
 CTIM-FD
 CubeRRT⁺
 TEMPEST-D⁺
 EcAMSat⁺

R5-S2
 ASTERIA^{**}
 Dellingr^{**}
 SPORT
 RadSat-g⁺
 OCS-D-B/C^{**}

R5-S3
 MinXSS⁺
 PetitSat
 CSUNSAT-1⁺
 OCS-D-B/C^{**}

R5-S4
 ISARA⁺
 HaloSat⁺
 CSUNSAT-1⁺
 OCS-D-A^{**}
 EDSN⁺
 PHARMASAT^{**}
 GeneSat^{**}
 O/OREOS⁺
 RAVAN⁺
ACMES
 TROPICS
 TROPICS Pathfinder
Arcstone
 MC/COVE
 MC/COVE-2⁺
SNOOPI
 GRIFEX⁺
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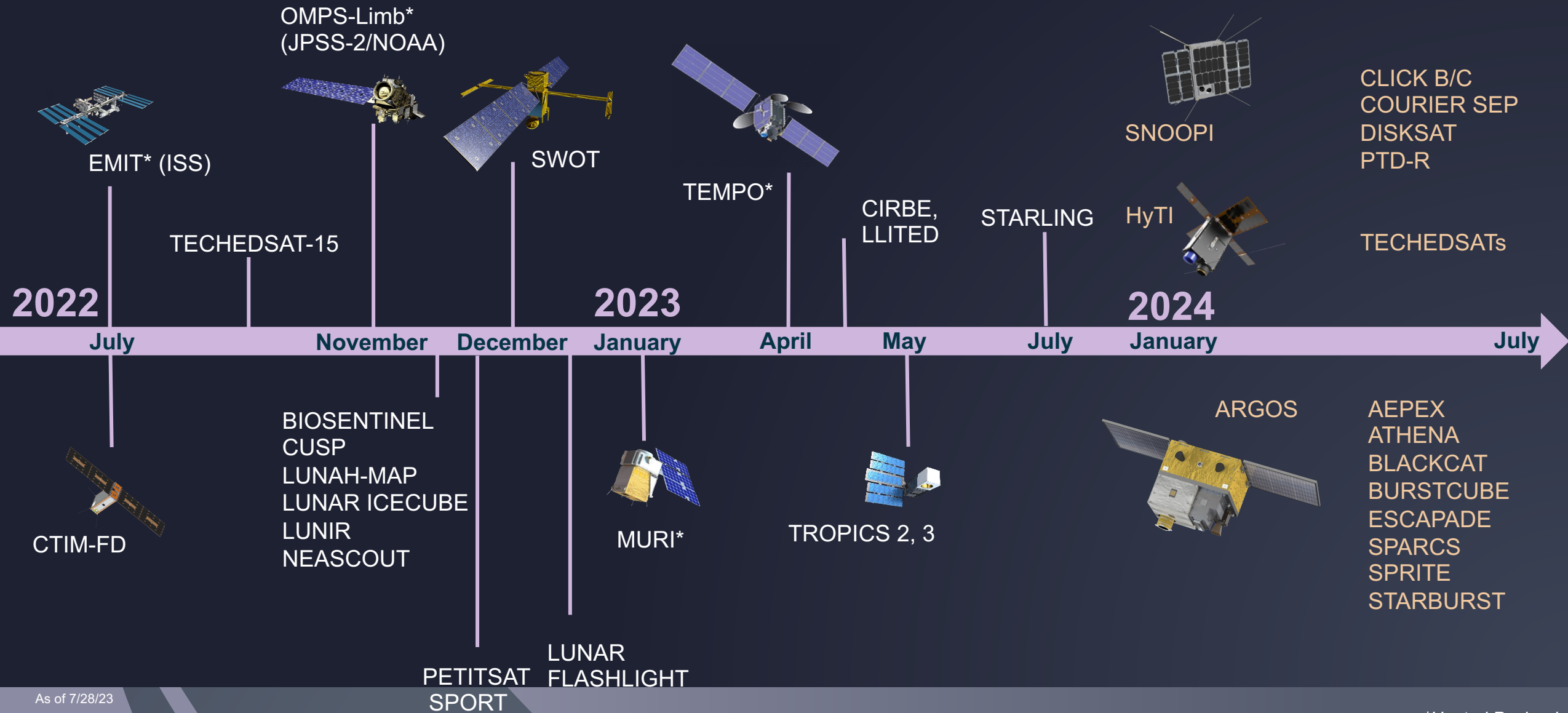
R5-S5
 Lunar Flashlight
Cislunar Explorers
 PTD-1 HYDROS^{**+}
 PTD-3 T-BIRD^{*}
 PTD-4 LISA-T^{*}
 PTD-R^{*}
 CU-E3

R5-S6
LUNAR TRAILBLAZER^s
 LunaH-Map
 Team Miles
 Lunar IceCube
 LunIR
 CAPSTONE

OPERATING, PAST, & FUTURE SMALLSAT/CUBESAT FLEET

Missions Tracked: 164

Recent and Upcoming SmallSat Launches



Activities 2023-2024

- Community Engagement with PI communities
 - SmallSat LEARN “Learning from Experiences, Achievements, and Resolution Navigation” Forum Oct 12 – 13, 2023 at LaRC
 - SmallSat CoP, Science, and Industry Webinars
- State of The Art Report at S3VI <https://www.nasa.gov/smallsat-institute>
- 2022 Virtual SmallSat Forum Report https://www.nasa.gov/sites/default/files/atoms/files/2022_soa_full_0.pdf
- SmallSat Reliability Institute Website <https://s3vi.ndc.nasa.gov/ssri-kb/>



NASA Meet-a-PE

Location: Taggart NASA Booths

SMD: Mon., Aug. 7, 3:30 – 4:30 pm - Small spacecraft-related program updates in NASA's Research Opportunities in Space and Earth Sciences (ROSES) 2022 and other solicitations

- David Cheney (Heliophysics)
- Alan Zide (Heliophysics)
- Florence Tan (SMD)

Launch: Tues., Aug. 8, 9:45AM – 10:45AM

- Norman Phelps (CSLI/LSP - Access to Space)
- Lauri Newman (Conjunction Assessment and Mitigation)
- McCulloch (??)

PM: Wed., Aug. 9, 9:45AM – 10:45AM

- Sam Pedrotty (JSC/STMD/ESDMD)
- John Hudeck (WFF S3PO)
- Tom Johnson (PM APD and HPD portfolio)

PI: Thurs., Aug. 10, 9:45AM – 10:45AM

- Meet Pis from BioSentinel, CYGNSS (Chris Ruf), CAPSTONE (Elwood Agasid)

NASA COMMUNITY MEETING

Tues., Aug. 8, 12:15 – 1:15 PM

**Closed meeting for NASA and JPL affiliated civil servants
and contractors**

florence.w.tan@nasa.gov
<https://science.nasa.gov/>

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