



National Aeronautics and  
Space Administration

# 2023 NASA SCIENCE

**NASA Science Mission  
Directorate SmallSats Update**

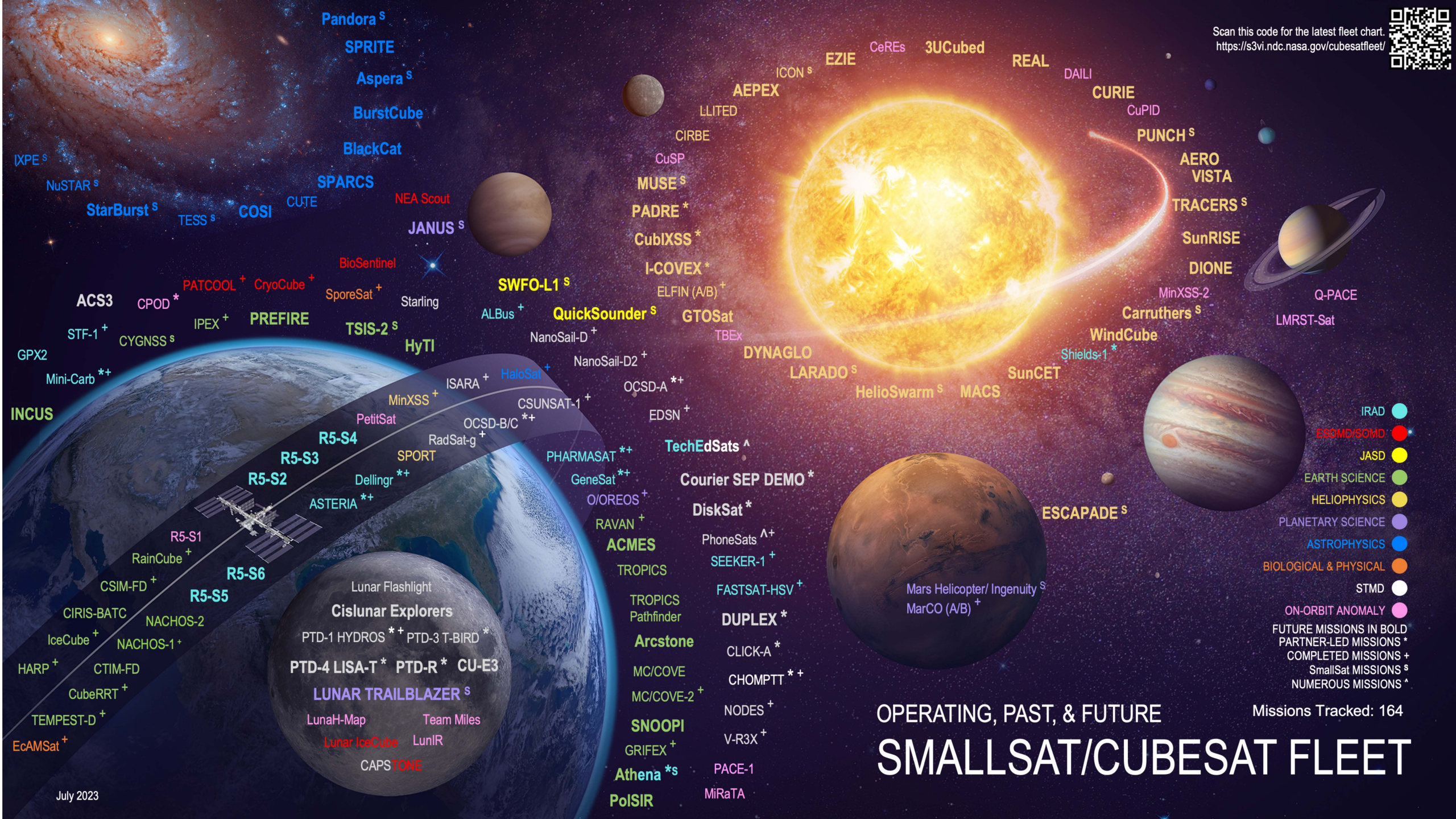
**Florence Tan**

Chair, Small Spacecraft Coordination Group  
NASA Headquarters

SmallSat Conference  
August 2023



Scan this code for the latest fleet chart.  
<https://s3vi.ndc.nasa.gov/cubesatfleet/>

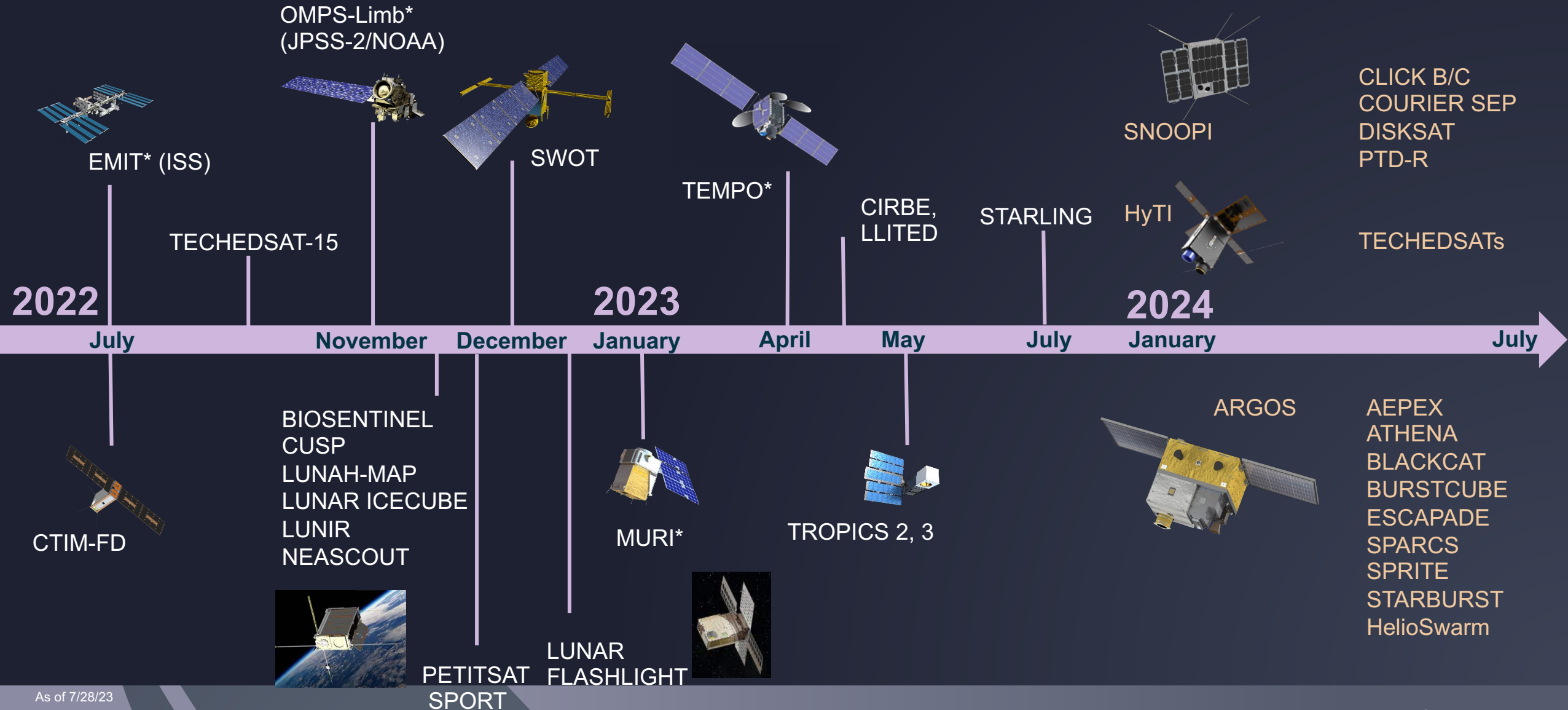


- IRAD
- ESMD/SMD
- JASD
- EARTH SCIENCE
- HELIOPHYSICS
- PLANETARY SCIENCE
- ASTROPHYSICS
- BIOLOGICAL & PHYSICAL
- STMD
- ON-ORBIT ANOMALY
- FUTURE MISSIONS IN BOLD
- PARTNER-LED MISSIONS \*
- COMPLETED MISSIONS +
- SmallSat MISSIONS S
- NUMEROUS MISSIONS ^

# OPERATING, PAST, & FUTURE SMALLSAT/CUBESAT FLEET

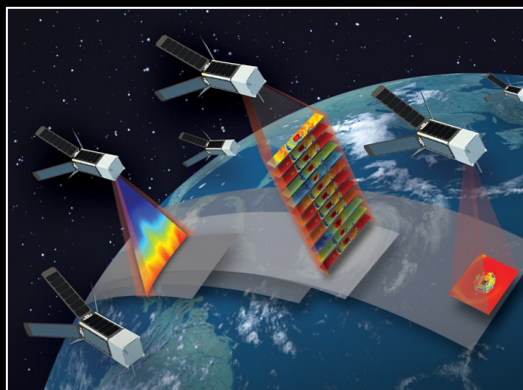
Missions Tracked: 164

# NASA Recent and Upcoming SmallSat Launches



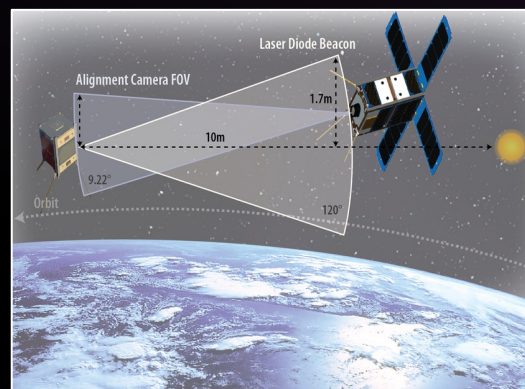
# SmallSat Program Opportunities

## Investing in Earth Science Constellations



Earth Venture (EV) and In-Space Validation of Earth Science Technologies (InVEST)

## Major Investment in Astro SmallSat Missions



Astrophysics APRA CubeSat and PIONEERS program, Small Explorer (SMEX) Astrophysics Science SmallSat Studies

## Investing in SmallSat Constellations and ESPA Class Missions



Heliophysics Technology and Science Mission of Opportunity (MoO), Small Explorer (SMEX), Medium Explorer (MIDEX), Flight Research and Technology (H-FORT) programs

## Investing in Deep Space SmallSat Missions



Small Innovative Missions for Planetary Exploration (SIMPLEx)

***SmallSat/CubeSat commercial engagement opportunities are essential to NASA Science's balanced portfolio, achieving distinct science objectives***

# Activities 2023-2024

## Community Engagement with PI communities

- SmallSat LEARN “Learning from Experiences, Achievements, and Resolution Navigation” Forum Oct 12 – 13, 2023 at LaRC. <https://www.nasa.gov/smallsat-institute/LEARN>
  - Registration is open
  - Open to those affiliated with a NASA Sponsored mission or PI LaunchPad Alum
- 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](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/>

We are a LEARNING community  
Let us know your topics of interest

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<https://science.nasa.gov/>

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