



National Aeronautics and  
Space Administration



# NASA's Vision for Powerful Science

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# SMD CROSSCUTTING UPDATES

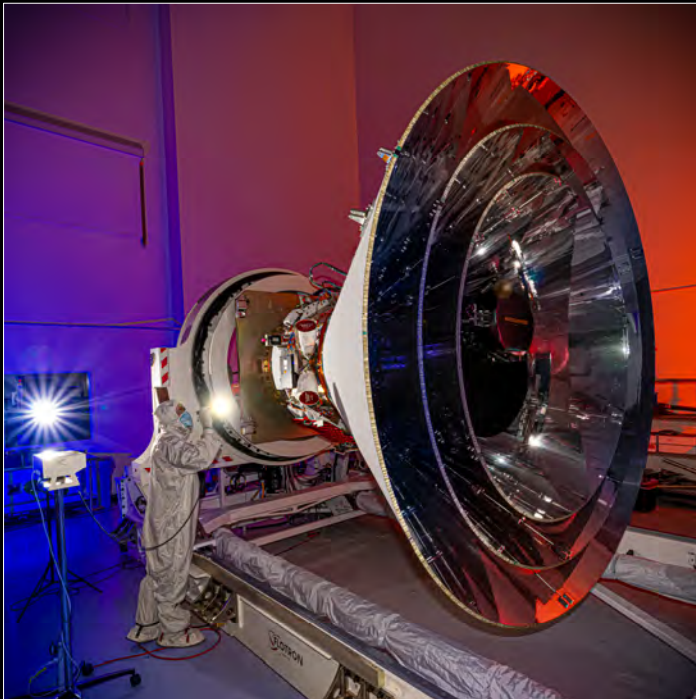


# DIVISION UPDATES





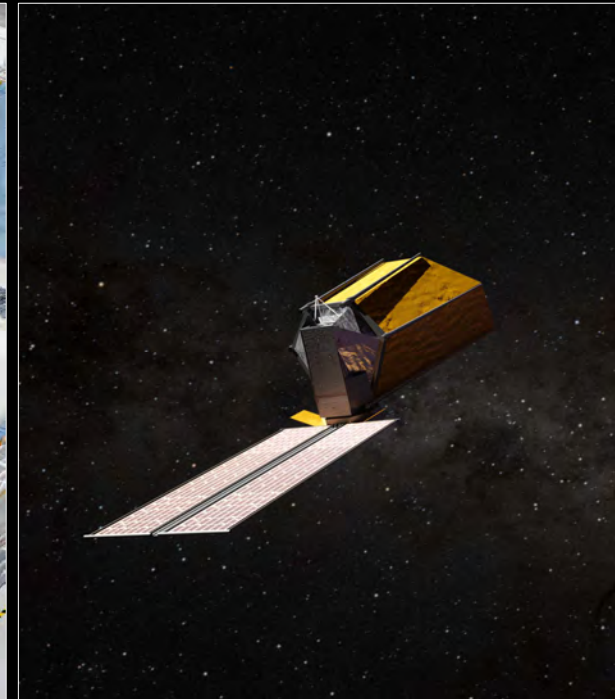




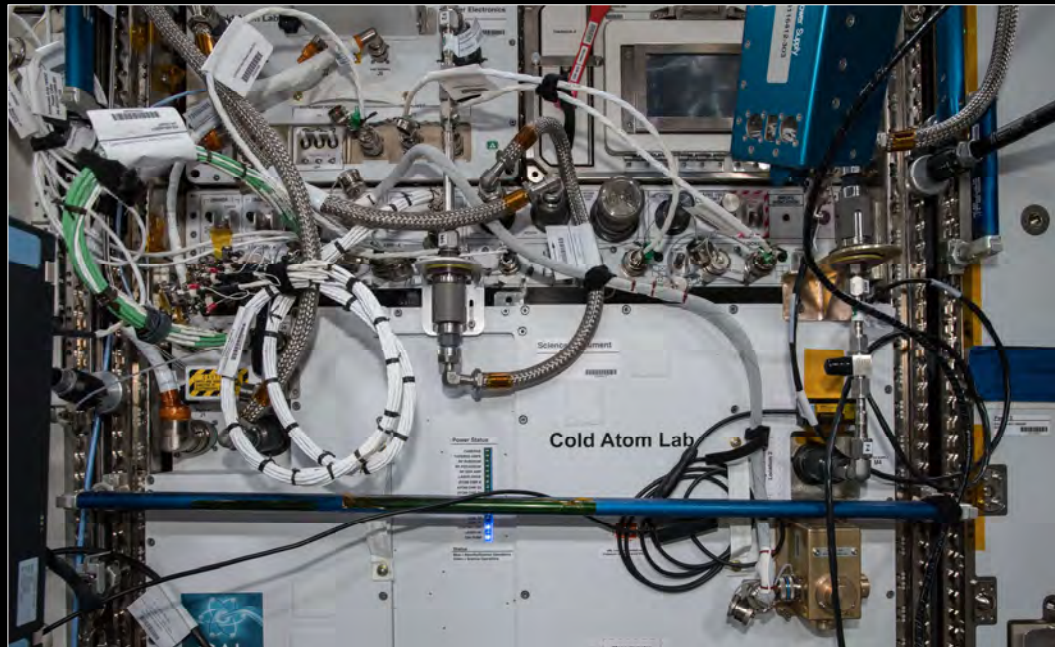
*SPHEREx Observatory Assembled*



*Nancy Grace Roman Space Telescope's spacecraft bus*



*Artist's concept still of the Habitable Worlds Observatory*



*NASA's Cold Atom Lab, shown where it's installed aboard the International Space Station.*



*Genomic Enumeration of Antibiotic Resistance in Space (GEARS) sample media plate is shown aboard the International Space Station.*



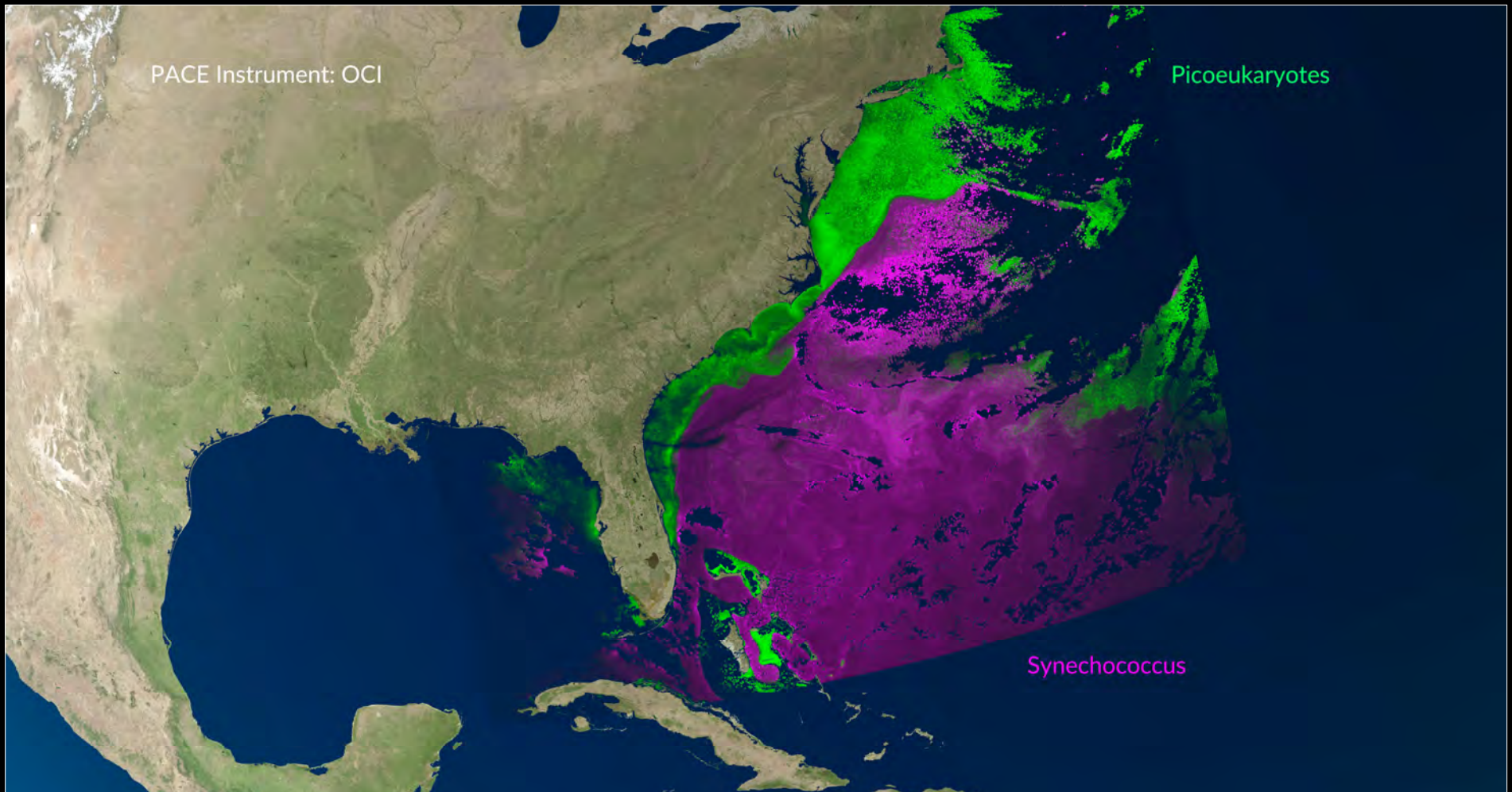


*Tissue chip experiment*

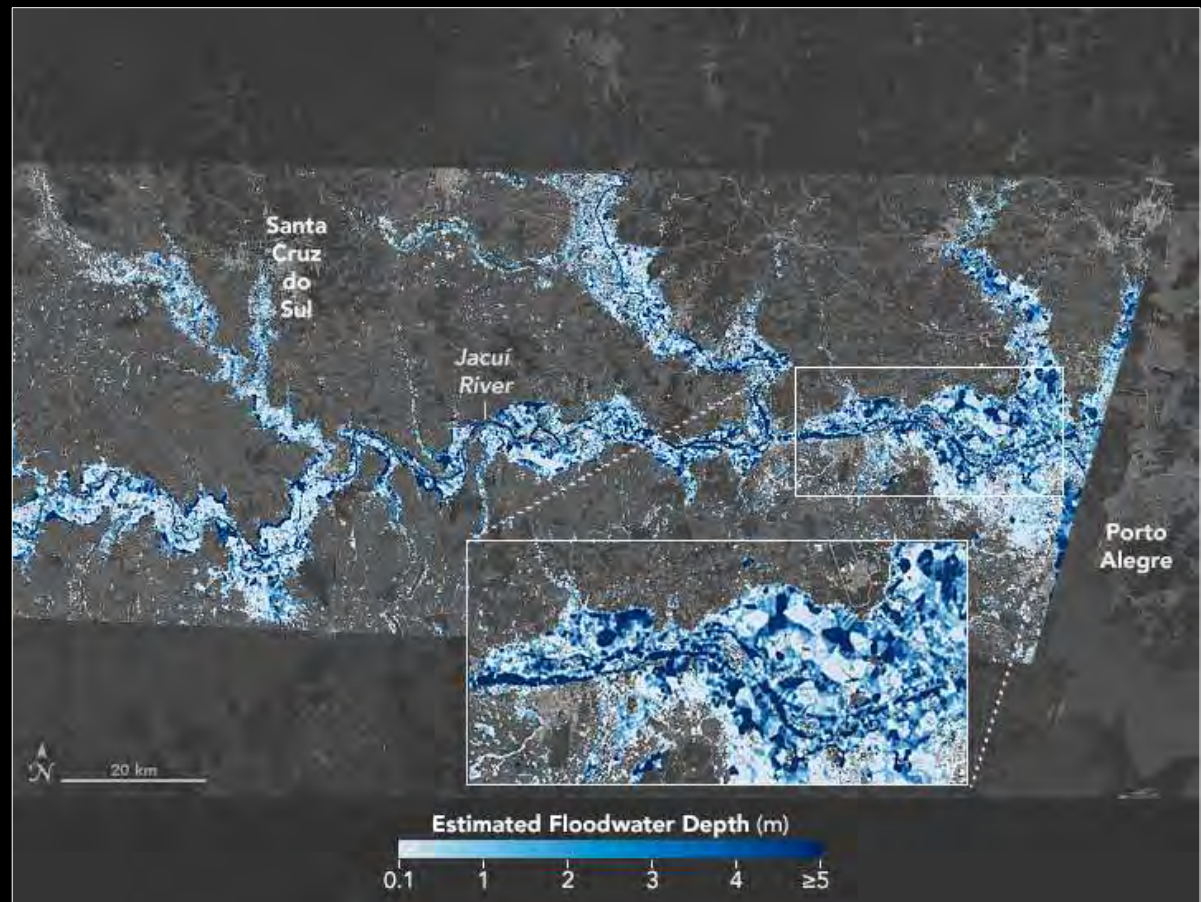


*A spherical flame created in space (left), and a candle flame burning on Earth (right)*

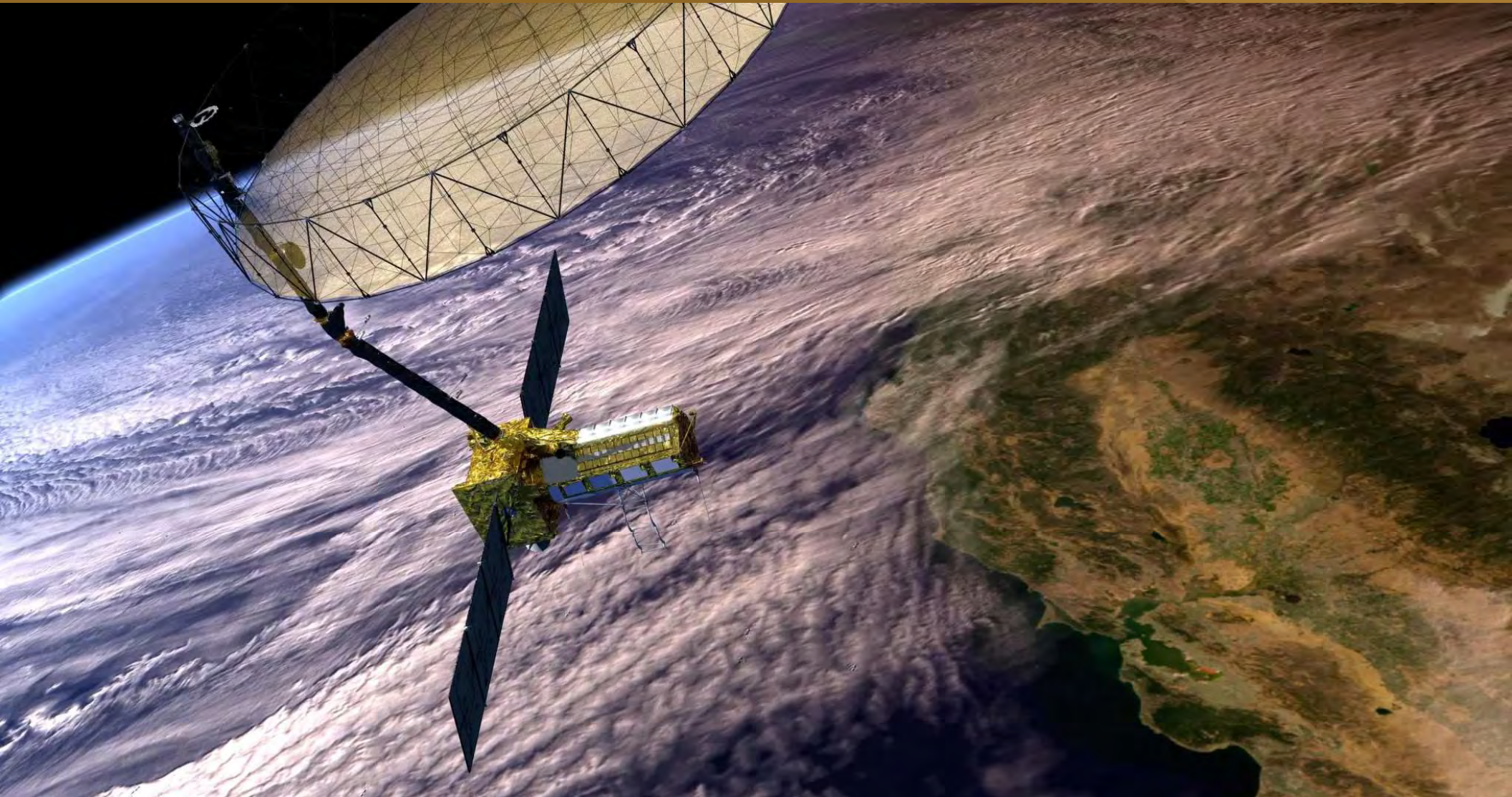




*False color data visualization of phytoplankton (Picoeukaryotes and Synechococcus), as observed by PACE's OCI instrument.*



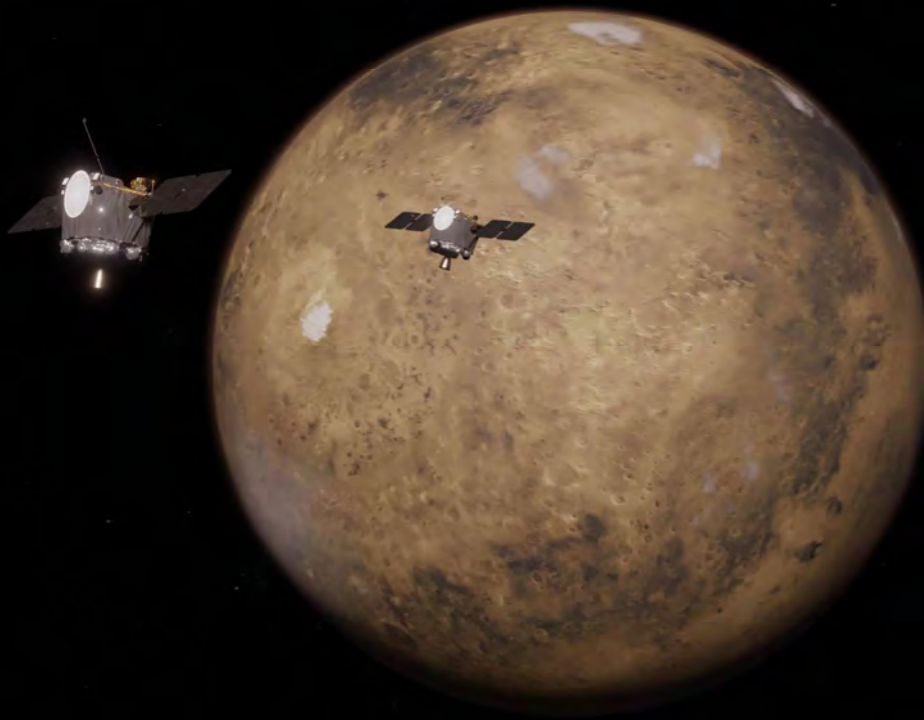












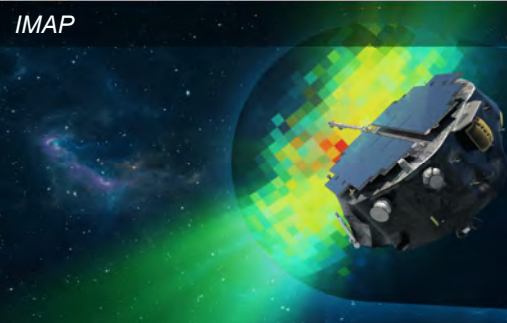
Artist's conception of switchbacks, or large kinks in the Sun's magnetic field.



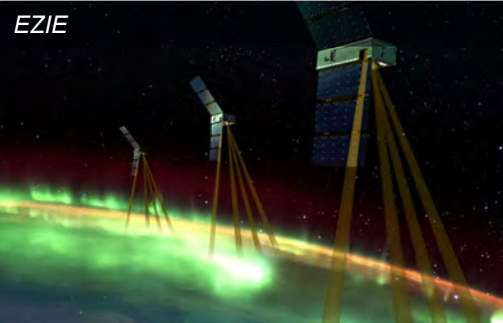
Artist's illustration of Parker Solar Probe



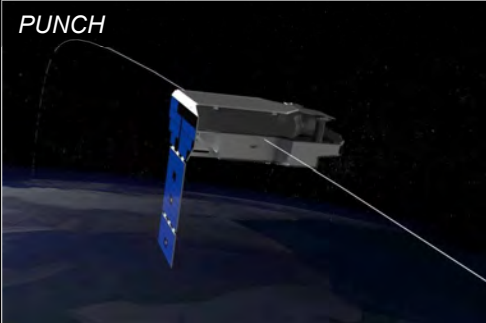
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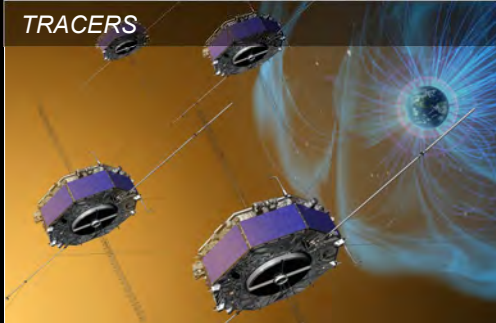
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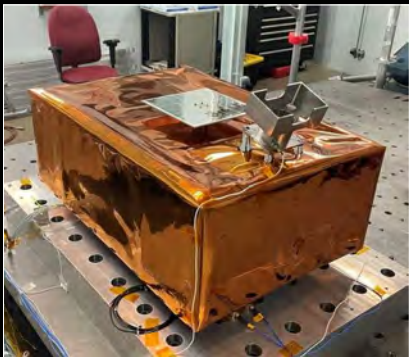




*NEO Surveyor*



*Europa Clipper Launch*



### The Lunar Environment Monitoring Station (LEMS)

A compact, autonomous seismometer suite designed to carry out continuous, long-term monitoring of the seismic environment, namely ground motion from moonquakes, in the lunar south polar region.



### Lunar Effects on Agricultural Flora (LEAF)

LEAF will investigate the lunar surface environment's effects on space crops. LEAF will be the first experiment to observe plant photosynthesis, growth, and systemic stress responses in space-radiation and partial gravity.



### The Lunar Dielectric Analyzer (LDA)

LDA will measure the regolith's ability to propagate an electric field, which is a key parameter in the search for lunar volatiles, especially ice. It will gather essential information about the structure of the Moon's subsurface, monitor dielectric changes caused by the changing angle of the Sun as the Moon rotates, and look for possible frost formation or ice deposits.















**Thank you!**