



American Institute of Aeronautics and Astronautics  
HOUSTON SECTION • P.O. Box 57524 • Webster, Texas 77598  
Web site: [www.aiaahouston.org](http://www.aiaahouston.org)

## Aerospace History News

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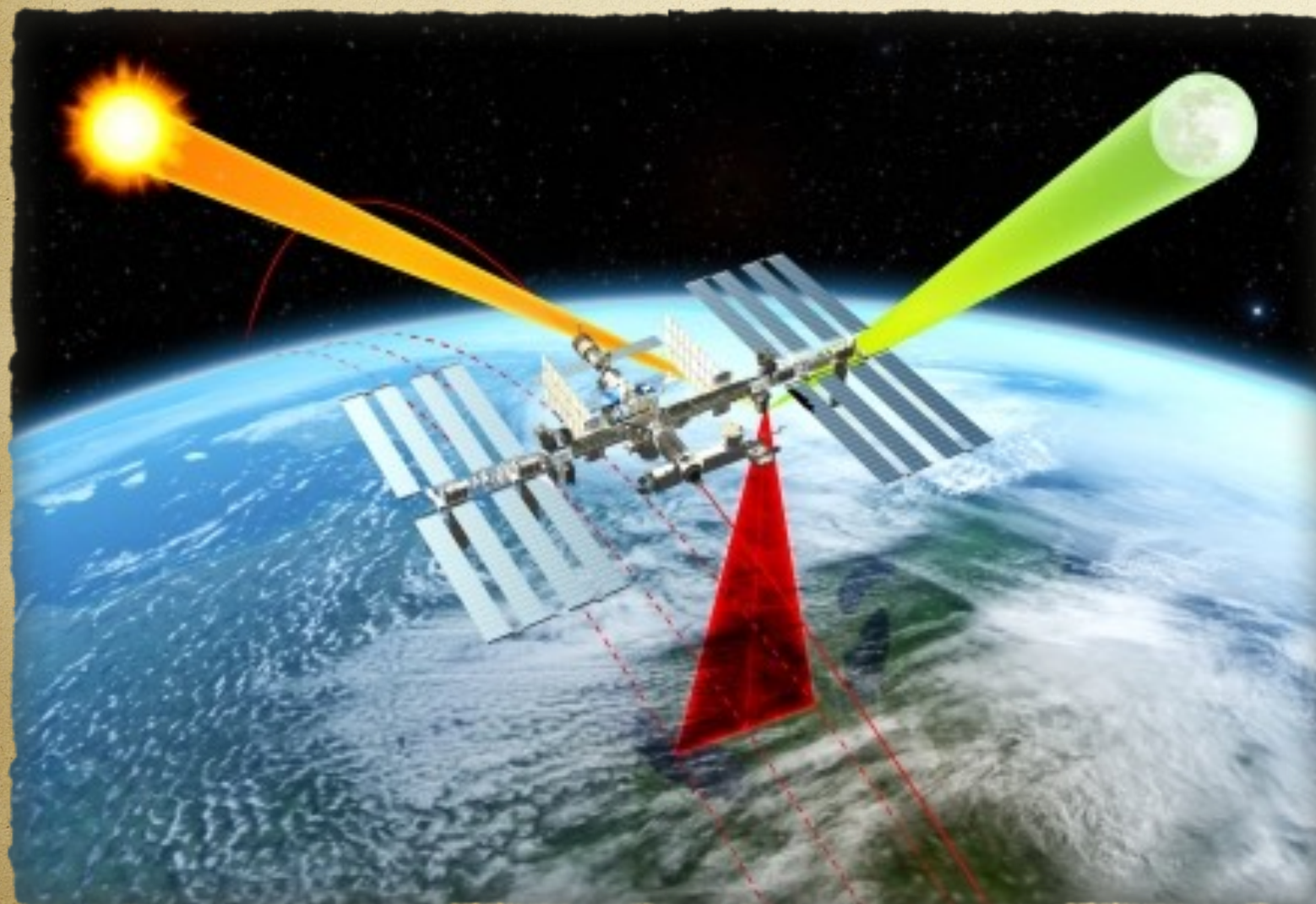
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# NASA Climate Science Plans CLARREO Pathfinder on the International Space Station

### What is CLARREO?

The Climate Absolute Radiance and Refractivity Observatory (CLARREO) mission will monitor the pulse of the Earth to better understand climate change. The foundation for CLARREO is the ability to produce highly accurate and trusted climate records. These tested climate records can be used to lay the groundwork for informed decisions on mitigation and adaptation policies that address the effects of climate change on society.



*CLARREO website: <https://clarreo.larc.nasa.gov>.*

### What is CLARREO Pathfinder?

In 2016, CLARREO received authorization to conduct a Pathfinder mission called CLARREO Pathfinder (CPF). Its goal is to reduce risk, demonstrate essential techniques and technologies, and advance the science for a full CLARREO mission.

The CPF instrument is a reflected solar spectrometer that measures energy from the sun reflected back from Earth. Benefits of CPF include demonstrating improved measurement accuracy by factors of 5-10 and demonstrating the ability to inter-calibrate with other Earth-observing sensors.

CPF is scheduled to launch to the ISS in the 2021 timeframe.

*Image and text credits: NASA.*



**Climate: “10 times the key variables that weather has (50 vs 6).”**  
SPIE Asia Pacific Remote Sensing Tutorial Part 2,  
New Delhi, India; April 3, 2016.  
Dr. Bruce A. Wielicki, NASA Langley Research Center.