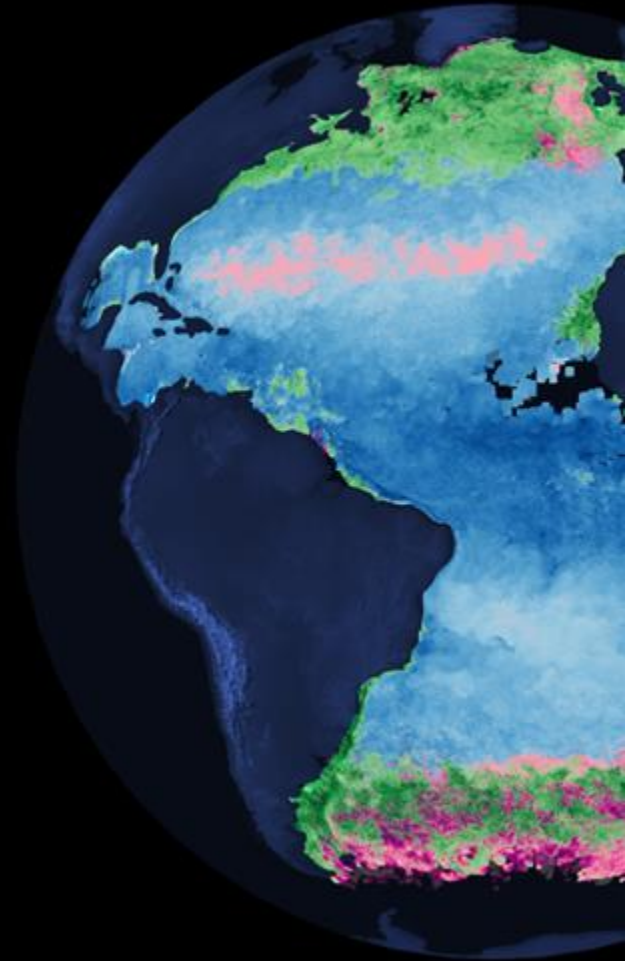


PACE: Initial assessment of product compatibility with CEOS-ARD

Sean Bailey & Jeremy Werdell
NASA Goddard Space Flight Center

LSI-VC-19 / WGCV-56 meeting

23 April 2026





OCI

340-890 nm in 2.5 nm steps
 7 discrete SWIR: 940-2260 nm
 1-2 day coverage; $\pm 20^\circ$ tilt; 1km
 NASA Goddard Space Flight Center



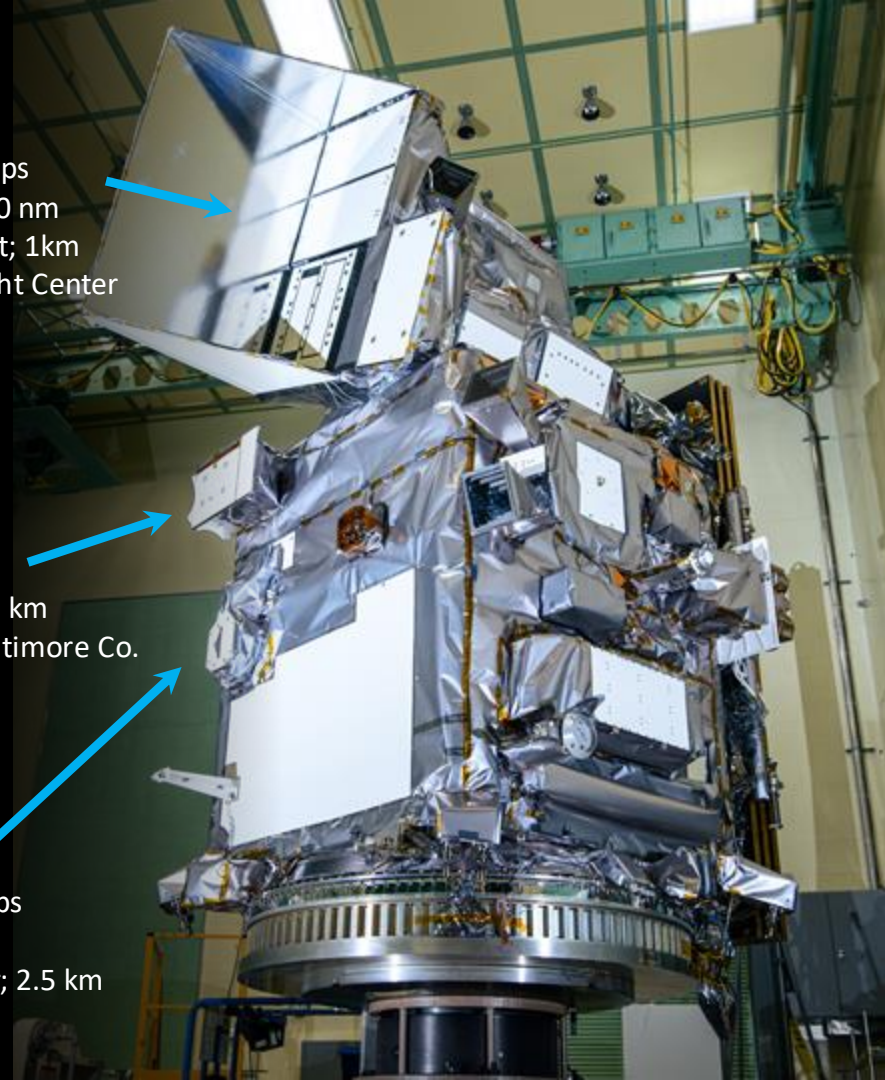
HARP2

440, 550, 670, 870 nm
 10-60 viewing angles
 wide swath polarimeter; 3 km
 University of Maryland Baltimore Co.



SPEXone

380-770 nm in 2-4 nm steps
 5 viewing angles
 narrow swath polarimeter; 2.5 km
 SRON, Airbus NL



PACE key characteristics

launch 8 Feb 2024

initial data release on 11 Apr 2024

science data products include:

- aquatic surface reflectances
- aquatic biogeochemistry
- terrestrial surface reflectances
- terrestrial ecology metrics
- atmospheric aerosol properties
- atmospheric trace gases
- cloud (micro)physical properties



data access via NASA
EarthData Search

polar, ascending, 98° inclination
 13:00 local Equatorial crossing time
 676.5 km altitude
 6-9 hrs data latency

contributed to the ARD update released on 29 May 2025

- NASA rep from the Ocean Biology Distributed Active Archive Center (OB.DAAC) provided input
- the OB.DAAC supports and hosts PACE data processing, archival, and distribution

PACE self-assessment began in March 2026

- aquatic spectral surface reflectances (unitless) and spectral remote-sensing reflectances (sr^{-1})
- PACE (all NASA ocean color) adheres to the Climate and Forecast (CF) metadata conventions

