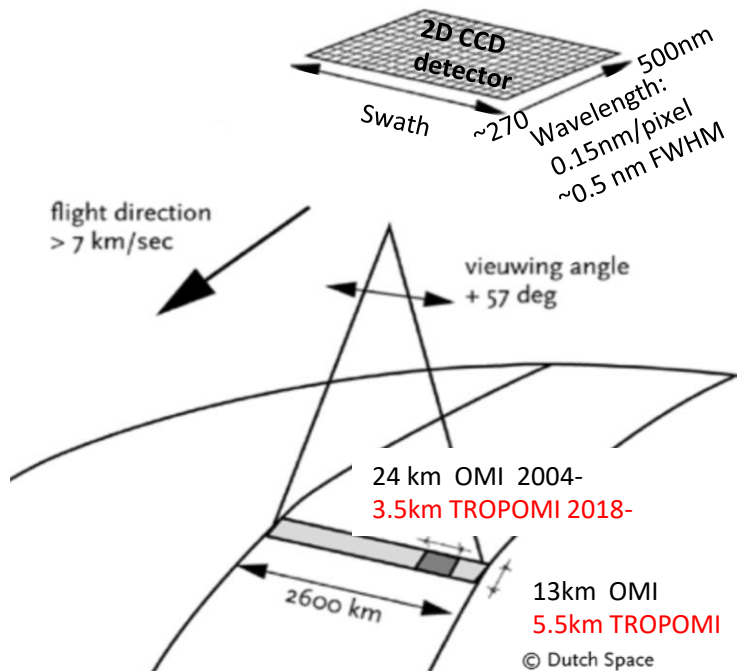
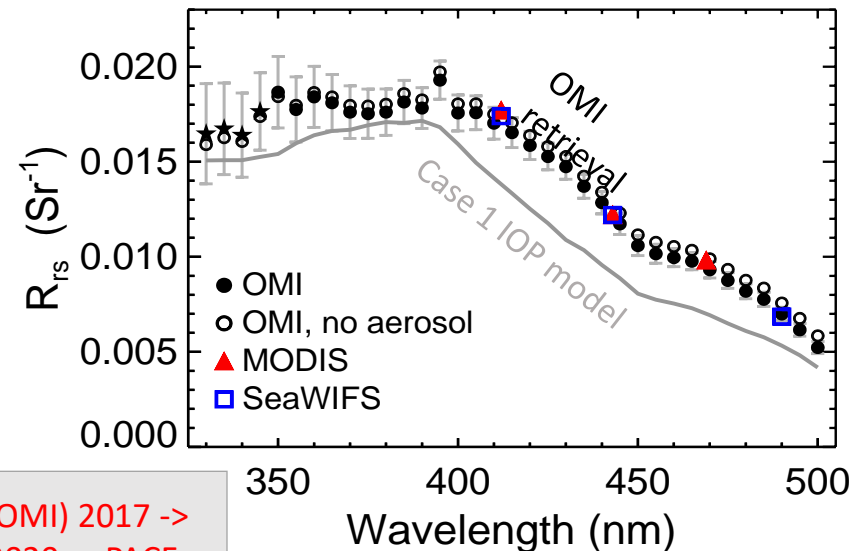


Hyperspectral algorithms for PACE OCI water leaving reflectances and UV penetration depths

Pawan K. (PK) Bhartia (NASA), Patricia Castellanos (NASA), Zachary Fasnacht (SSAI), David Haffner (SSAI), Joanna Joiner (NASA), Jhoon Kim (Yonsei University, Seoul, Korea), **Nickolay Krotkov (PI, NASA)**, Jungbin Mok (UMD), Wenhan Qin (SSAI), Robert Spurr (RT Solutions), Omar Torres (NASA), Alexander Vasilkov (SSAI)



- Demonstrate and validate OMI/TROPOMI/GEMS hyperspectral UV-VIS water leaving reflectances $R_{rs}(\lambda)$ retrievals.
- Develop OCI Level 2 algorithms for underwater UV irradiance and action spectra-weighted UV penetration depths.



Aura Ozone Monitoring Instrument (OMI) 2004 →

Sentinel 5 Precursor TROPospheric Monitoring Instrument (TROPOMI) 2017 →

Geostationary Environmental Monitoring Spectrometer (GEMS) 2020 → PACE

OCI