

GSICS VIS/NIR web meeting for July 14, 2022

We had 2 presentations and the meeting lasted 2-hours. We had 18 participants

Bahjat Alhammoud from ESA(Argans) presented “Sentinel2A -2B intercalibration”. Bahjat outlined the Sentinel2 MSI inter-calibration methodology utilizing Rayleigh scattering, sunglint, PICS, and DCC targets. The two Sentinel2 satellites are spaced a half orbit apart and cannot rely on coincident measurements to determine the sensor absolute calibration difference. The Sentinel2-MSI relies on solar diffusers for both the absolute calibration and on-orbit stability. Most of the analogous bands agreed within 1% across all Earth targets. The Libya-4 comparisons were based on very limited angular sampling to obtain the sensor pair relative reflectance. The multiple Earth targets were also used to evaluate the channel linear response. The evaluation of the channel linear responses was challenging due to the high reflectances were based on Dome-C

Munn Shukla from ISRO presented “INSAT and MODIS RSB ray-matching results” Munn described multiple variations inter-calibration INSAT and MODIS results. Variations include using a linear regression through the space count and without, angular thresholds, space count assumptions. The INSAT rectified grid navigation and faint detector striping were not responsible for the noisy ray-matching linear regression count gains. The dynamic range did not significantly vary over the year. The IR inter-calibration was hampered by sensor stray-light.