Summary: GSICS VIS/NIR meeting 09 September 2021

Stuart Phinn (EOA) presented “Australian Calibration and Validation Activities Visible and Infrared Earth Observation: Status – Planned”. He gave a summary of all the Australian groups involved in calibration/validation activities. They are mainly involved with high resolution land use and ocean color sensors. Their calibration validation includes using ground observations, ocean ground observations located on a jetty, and spectrometer sensors mounted on drones. One very promising work will be launching satellite Cross-Calibration hyper-spectral radiometers designed specifically to cross-calibrate TRUTHS and CLARREO SI traceable calibration reference with many concurrent sensors. This is something GSICS is interested in and will invite to present in future GSICS meetings. We welcome Stuart to the GSICS community.

Raj Bhatt (NASA) presented “The newly revised GSICS DCC calibration ATBD for GEO imagers: Discussion” Raj will provide all agencies the reference NOAA-20 VIIRS DCC calibration response. A request was made for the future Met-9 location over the Indian Ocean and also the INSAT-3D location. Once we have DCC products for visible bands, Raj will formulate the GSICS DCC ATBD for SWIR channels.

Raj Bhatt has authored the “GSICS Deep Convective Cloud (DCC) method of inter-calibrating geostationary imagers with a polar-orbiting reference instrument” We ask the individual agencies to review the document this month and we can discuss at the October GSICS VIS/NIR meeting scheduled for Oct 14, 2021.
Please find the ATBD here: *http://gsics.atmos.umd.edu/bin/view/Development/20210909*

We are inviting individual agencies to provide one or two plots of the 0.65µm channel DCC results for the GSICS DCC calibration paper that we hope to submit early next year.

We want to start having a common ray-matching approach amongst the GSICS agencies

Manik Bali (NOAA) presented “Plan for NASA DCC GSICS products”. A good discussion was had on the requirements to produce a GSICS VIS/NIR calibration product. We will start with a single GEO reference to a single LEO (N20-VIIRS) with a single method (DCC) netCDF file. We will have a follow-on meeting on the netCDF file format for DCC products. Plotting tools are not necessary for promotion. Hope we can work with the ISCCP-NG group to see if the GSICS calibrated products offer more consistent cloud property results.