

VisNIR Session — Lunar part

Seb Wagner (EUMETSAT) presented updates on lunar calibrations for Sentinel-2 and Meteosat-8 end-of-life tests

- S2 work on stray light assessments and determining Moon image oversampling
- MSG1 (Meteosat-8) was given 8 hours to run test acquisitions of the Moon
 - series of images acquired in rapid succession; analysis ongoing

Jack Xiong (NASA) reported on inter-calibration of MODIS and SNPP and N20 VIIRS

- Calibration differences were reduced with using TSIS-1 HSRS solar spectrum
- [First Moon images taken by NOAA-21 VIIRS this week!](#)

Emma Woolliams (NPL) gave presentation on the Lunar Irradiance Model of ESA (LIME)

- Rigorous uncertainty analysis applied to lunar Langley acquisitions
- CoMet toolkit used for spectral interpolation/processing
- LIME toolkit: in development for operating lunar calibration using LIME
 - expected to be available for community use by the end of 2023

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Bikash Basnet (NOAA) reported on using H. Kieffer's SLIMED lunar model at NOAA

- Comparisons of using SLIMED and GIRO on the same GOES-16 and 17 datasets
 - results show clearly some limitations of GIRO
 - this work transitioned well to the next talk:

Discussion on implementing a new GSICS lunar model — led by Tom Stone (USGS) and Hugh Kieffer (Celestial Reasonings)

- Tom presented a proposed framework for software system development
- Hugh has distributed a document describing SLIMED implementation
- Potential multi-agency effort, under GSICS
- Emma Woolliams stressed the importance of tracking uncertainties
- Suggestion to potentially use the LIME toolkit as a starting point
 - Fred Wu indicated possible NOAA support for this

Tentative Action: NOAA to study using the LIME toolkit for implementing a new GSICS lunar calibration model