

## GSICS VIS/NIR Jan 12, 2023 Monthly Web Meeting

- 1) Jack Xiong, NASA presented: Impact of Terra & Aqua drifting orbits on MODIS calibration
  - Tom Stone mentioned that observing the moon under the same conditions as anticipated next year would provide overlapping lunar measurements to ensure a stable calibrated record during the Terra and Aqua Drifts.
  - Dave Doelling mentioned that the DCC invariant target method should work for  $SZA < 60^\circ$  so no change is needed
- 2) Dave Doelling for Raj Bhatt, NASA presented: DCC GEO reference reflectance based on NOAA-20 VIIRS
  - Fred Wu asked why wavelengths greater than  $1\mu\text{m}$  had a more gaussian PDF whereas for wavelengths less than  $1\mu\text{m}$  have more of a tail. Currently there is not a good explanation.
- 3) Hugh Kieffer and Tom Stone, Discussion of the Lunar SLIM code conversion
  - This discussion will continue during future meetings.
  - Thijs Krieger had the following comments.
  - Why not create a calibrator that can handle GIRO files directly if transcribing to python anyway?
  - Why so many input & output files, NetCDF can handle structured datasets? Why would you discourage that? [large file sharing is easy these days]
  - Why the need for both obs\_qual (N) and obs\_unc (N, M)? obs\_unc can contain all (N,M) ?
  - Why does the instrument team need to name the reference in 'model' ?
  - A new version of the SLIME model goes in sub-dir for reference files, I assume? Will it take latest version automatically? Can you indicate which version to use?
  - The model output is not saved anywhere, only the ratio?
  - The model [and/or ratio] uncertainty is not generated/stored anywhere?
  - Why not call distFac Mdist instead [in units of standard distance]?
  - What is the plan for the look-up table generation IDL code (IDL: bin generation system) ? [Which I propose to refer to as SLIM:G or SLIM:I (pronounced slimy) : ) ]