



WGCV/GSICS pre-flight Cal & Characterisation workshop (optical domain)





- Following previous CEOS workshop at Estec in 2004? Complemented by various regional/national workshops.
- Discussions and recommendations from CEOS WGCV IVOS ~2012 timely for n ew workshop
- Parallel interest from GSICS also WGCV- AC-sub group
- Agreed plan and outline strategy to hold optical sensor focussed workshop to be held in Europe in 2019 – Now revised to Q1 2020
- Small task team to initiate process consisting of CEOS and GSICS experts

Agreed Scope



- All optical sensors (200 nm to ~50 um) if too wide prioritise solar reflective domain <~2500 nm
 - Pre-flight satellite
 - On-board cal systems (pre-flight)
- Radiometric/Spectral Cal and characterisation
 - **o** All aspects impacting e.g. stray light, linearity. Gain...etc
- For whom?
 - o Engineers/scientists
 - o Science Pis
 - o To some extent managers/funders
- Format?
 - **o Primarily Invited presentations followed by discussion?**
 - Call for poster and some short oral on new methods?
 - Ideally leading to Proceedings/good practises/catalogue of methods
 - o 3 days probably independent

Logistics



- Planning started for Q1 2020
- Located in Europe (baseline host CNES Toulouse)
- Top level committee CEOS/GSICS has been formed
- Establishing Technical organising committee to include industrial participation







WGCV/GSICS workshop on: S/-Traceable Space-based Benchmark Sensors In Support Of Climate Observing System



Workshop aims



hosted by the UK Space Agency at National Physical Laboratory, London, UK, September 9-11, 2019

• Workshop to develop acommunity strategy to quantify the *benefits and consequential specifications of a space-based climate observing system* along with a roadmap to implementation

To discuss:

- Potential scientific and economic benefits,
- The state-of-the-art in establishing traceability in orbit: current technologies, methods, and missions (e.g. CLARREO and its Pathfinder, TRUTHS, and Chinese and Indian counterparts)
- New observation and climate-sensitivity detection capabilities and concepts



Sessions

- Science and societal drivers for the climate and operational communities (including economic benefits)
- Observations and datasets needed (measurements, timescales, and accuracies)
- *Reference calibrations (facilities/targets, approaches, capabilities, and uncertainties)*
- Mission/technologies/concepts under development or conceived (status, technical capabilities)
- Produce a report on the outcome of the workshop as a basis for a community 'white paper'.
- <u>https://ceoswmogsicsworkshop.eventbrite.co.uk</u>