

## Workshop on Pre-flight Calibration and Characterisation of Optical Satellite Instruments for Earth Observation

19 - 22 November 2024

Noordwijk, The Netherlands

Hosted by the The European Space Research and Technology Centre (ESTEC)

### Agenda

#### Day 1

Tuesday, November 19, 2024

Item	Topic	Presenter	Time (CET)
<b>Session A: Opening Session</b>			
A.1	Registration		9:00
A.2	Welcome and Introduction	Nigel Fox / Jack Xiong	10:00
<b>Coffee Break</b>			10:30
<b>Session B: Future Calibration / Characterisation Requirements</b>			
B.1	Pre-flight Calibration Requirements & Methodology	Dr. Paul Green	11:00
B.2	Instrument characterization needs for uncertainty evaluation of EO products	Dr. Sebastien Clerc	11:30
B.3	Extensive characterisation of 2D array detectors and the frequent occurrence of anomalous offset behaviour	Dr. Paul Tol	12:00

<b>B.4</b>	Slideshow for other submissions & Discussion		12:30
<b>Lunch Break</b>			13:30
<b>Session C: Principles of Calibration / Characterisation / Traceability / Uncertainty and its Documentation / Reporting</b>			
<b>C.1</b>	An improved approach to BSDF calibration	Hansford Cutlip	14:30
<b>C.2</b>	Pre-flight Calibration of the MicroCarb Spectrometer	Dr. Christelle Pittet	15:00
<b>C.3</b>	TRUTHS PAYLOAD: TRACING THE PRE-FLIGHT AND IN-FLIGHT CALIBRATIONS TO SI STANDARDS	Alessandro Zuccaro Marchi	15:30
<b>Coffee Break</b>			16:00
<b>C.4</b>	Slideshow for other submissions & Discussion		16:30
<b>Adjourn</b>			17:30
<b>Icebreaker Event</b>			17:30 - 18:30

## Agenda

### Day 2

Wednesday, November 20, 2024

Item	Topic	Presenter	Time (CET)
<b>Session C (Continued): Principles of Calibration / Characterisation / Traceability / Uncertainty and its</b>			

<b>Documentation / Reporting</b>			
<b>C.5</b>	Calibration and Characterization of the CO2I instrument of the Copernicus CO2M mission	Mr. Gregory Bazalgette Courreges-Lacoste	8:30
<b>C.6</b>	Sentinel 4 - Calibration and Characterization of the Proto-Flight Model	Dr. Stefan Riedl	9:00
<b>C.7</b>	FY-3F MERSI-III Prelaunch Reflective Solar Band Testing and Performance	Dr. Ling Wang	9:30
<b>Coffee Break</b>			10:00
<b>C.8</b>	Slideshow for other submissions & Discussion		10:30
<b>Session D: Radiometric Gain / Non-Linearity / Polarisation Sensitivity</b>			
<b>D.1</b>	On-ground Calibration Methods for the Flexible Combined Imager on Meteosat Third Generation	Mr. Simon Strotmann	11:30
<b>D.2</b>	Pre-launch Characterization of the Hyperspectral Ocean Color Instrument on NASA's PACE Mission	Dr. Gerhard Meister	12:00
<b>D.3</b>	Prelaunch Test Program for the Orbiting Carbon Observatory Spectrometers	Mr. Robert Rosenberg	12:30
<b>Lunch Break</b>			13:00
<b>D.4</b>	Slideshow for other submissions & Discussion		14:00
<b>Coffee Break</b>			15:30
<b>Session E: Poster Presentations</b>			

<b>E.1</b>	Poster Presentations	16:00
<b>Adjourn</b>		17:30

### Day 3

Thursday, November 21, 2024

Item	Topic	Presenter	Time (CET)
<b>Session F: Spectral Response Function / Bandwidth / Wavelength / Smile</b>			
<b>F.1</b>	Spectral Characterization and Radiometric Calibration with the Goddard Laser for Absolute Measurement of Radiance (GLAMR)	Ms. Julia Barsi	8:30
<b>F.2</b>	MICROCARB instrument on ground calibration	Mrs. Laurie Pistre	9:00
<b>F.3</b>	Pre-flight characterization of the FLEX instrument: the OMR experience anticipating the full instrument OGC&C campaign	Eng. Emanuela De Luca	9:30
<b>F.4</b>	Improving L1 Product Quality for Imaging Spectrometers with Response Function-Based Post-Processing	Dr. Claas Köhler	10:00
<b>Coffee Break</b>			10:30
<b>F.5</b>	Slideshow for other submissions & Discussion		11:00

<b>Session G: Stray Light (Out-of-Field, Out-of-Band), Point Spread Function, Ghosts, Scattered</b>			
<b>G.1</b>	Finding light in the fog – Stray light characterization for the OMPS instrument	Tevis Nichols	12:00
<b>G.2</b>	Stray Light Calibration of the EnMAP Imaging Spectrometer Mission	Dr. Andreas Baumgartner	12:30
<b>Lunch Break</b>			13:00
<b>G.3</b>	Stray light on-ground calibration and correction for Metop-3MI	Dr. Lionel Clermont	14:00
<b>G.4</b>	Slideshow for other submissions & Discussion		14:30
<b>Coffee Break</b>			15:30
<b>Session H: Discussion and Report Assignment - All themes</b>			
<b>H.1</b>	Discussion and Report Assignment		16:00
<b>Adjourn</b>			17:30

## Day 4

Friday, November 22, 2024

Item	Topic	Presenter	Time (CET)
<b>Session I: Thermal Infrared</b>			
<b>I.1</b>	Characterization and Calibration of the Meteosat Third Generation - InfraRed Sounder (MTG-IRS): spectral, radiometric, and geometric tests,	Eng. Maxime CORTESE	8:30

	vacuum test setup, and key findings		
<b>I.2</b>	The Universal InfraRed Airborne Spectrometer (UNIRAS): Mid-to-Far-Infrared spectral radiance measurements in support of recently launched and future satellite missions.	Dr. Jonathan Murray	9:00
<b>I.3</b>	Pre-Launch Calibration of IR instruments for Surface Temperature Measurements - Experience from ATSR and SLSTR series	Dr. David Smith	9:30
<b>Coffee Break</b>			10:00
<b>I.4</b>	Preflight Radiometric Calibration of FengYun-4B/GIIRS	Dr. Lu Lee	10:30
<b>I.5</b>	Visible-to-TIR radiometric calibration tools and experiments at JAXA Tsukuba Space Center	Dr. Masahiro Suganuma	11:00
<b>I.6</b>	Slideshow for other submissions & Discussion		11:00
<b>Lunch Break</b>			13:00
<b>Session J: Discussion and Report Assignment - All themes</b>			
<b>J.1</b>	Discussion and Report Assignment		14:00
<b>Adjourn</b>			15:30