



Time is reported in CET

13th October 2025 – Big Hall (ESA-ESRIN)

Breakfast Reception & Registration (8:45 – 9:30)

ESA Opening Session

Chairs: V. Boccia (ESA), F. Gascon (ESA)

09:30 – 09:45	ESA Earth Observation Programmes Status	<i>K. Molch (ESA)</i>
09:45 – 10:15	Copernicus Sentinel-2 Mission Status	<i>F. Gascon (ESA)</i>
10:15 – 10:35	Copernicus Sentinel-2 Data Quality Overview	<i>V. Boccia (ESA)</i>

10 Years of Copernicus Sentinel-2

Chairs: V. Boccia (ESA), F. Gascon (ESA)

10:35 – 10:55	10-years of Sentinel-2 Data Usage by Copernicus Services	<i>P. Soille (CLMS) / K. Stelzer (CMEMS/ CGLOPS)</i>
10:55 – 11:15	Sentinel-2 Contribution to Understanding Climate Change	<i>S. Mecklenburg (ESA)</i>
11:15 – 11:35	Key examples of Applications using Sentinel-2	<i>F. Leonelli (ESA)</i>
11:35 – 11:55	Evolution of Sentinel-2 Data Quality during the last 10 years	<i>V. Boccia (ESA), S. Clerc (ACRI/ OPT-MPC)</i>

Coffee break (11:55 – 12:25)

Level-1 Radiometry Validation Session

PART 1

*Chairs: B. Alhammoud (MPC/ACRI),
D. Rodat (CNES)*

12:25 – 12:45	Impact Of the Spectral Response Variations on Sentinel-2C TOA Reflectance	<i>B. Lafrance (CS Group/ OPT-MPC)</i>
12:45 – 13:05	Recent Improvements of MSI Radiometric Calibration and Characterization of The Impact of Differences in Spectral Responses Between Sensors	<i>B. Lafrance (CS Group/ OPT-MPC)</i>
13:05 – 13:25	Comparison of the Sentinel-2C MSI lunar acquisitions with LIME	<i>S. Adriaensen (VITO/ OPT-MPC)</i>

Lunch break (13:25 – 14:30)

PART 2

Chairs: B. Alhammoud (MPC/ACRI),
D. Rodat (CNES)

14:30 - 14:50	Impact of Polarization on Radiative Transfer Simulation for Vicarious Calibration of Sentinel-2 MSI.	<i>N. Marton (Rayference)</i>
14:50 – 15:10	Sentinel-2 MSI Level-1 Radiometric Uncertainty Tool, status and application to tandem analysis	<i>A. Deru (ACRI-ST/ OPT-MPC)</i>
15:10 – 15:30	Copernicus Sentinel-2 Level-1 Radiometric Validation Status from the Optical MPC	<i>B.Alhammoud (ACRI-ST/ OPT-MPC)</i>
15:30 – 15:50	Cross-Missions Intercomparison of Level-1 Radiometric Products: Sentinel-2, Sentinel-2, Landsat-8 and Landsat-9	<i>B.Alhammoud (ACRI-ST/ OPT-MPC)</i>
15:50 – 16:10	Sentinel-2 MSI Level 1 radiometric inter-comparisons using Deep Convective Clouds and application to OLI, SLSTR and MODIS inter-comparisons	<i>L. Rivoire (ACRI-ST/ OPT-MPC)</i>
16:10 – 16:30	Sentinel-2 dynamic range assessment in support of next generation missions	<i>S. Proud (ESA)</i>
Coffee break (16:30 – 17:00)		

Level-1 Geometry Validation Session**PART 1**

Chairs: S. Clerc (MPC/ACRI),
S. Enache (MPC/CS)

17:00 - 17:20	Sentinel-2 Geometry: calibration status and uncertainty assessment	<i>S. Clerc (ACRI-ST/ OPT-MPC)</i>
17:20 – 17:40	Sentinel-2 Geometric and Radiometric Validation Activities Performed by CNES	<i>H. Meric (CNES)</i>
17:40 – 18:00	Sen2VM: an Open-Source solution for Geocoding Sentinel-2 Level-1B Products	<i>S. Enache (CS Group/ OPT-MPC)</i>
18:00 – 18:20	A DGGS (Discrete Global Grid System) DataCube demonstrator for Sentinel-2 data	<i>S. Enache (CS Group/ OPT-MPC)</i>

Ice breaker (18:20 – 19:30)**End of Day 1 (19:30)**

14th October 2025 – Big Hall (ESA-ESRIN)

Level-1 Geometry Validation Session

PART 2

*Chairs: S. Clerc (MPC/ACRI),
S. Enache (MPC/CS)*

09:30 – 09:50	Sentinel-2 Global Reference Image V2: Outcomes of the Study and Way Forward	<i>E. Hillaret (CS Group/ OPT-MPC)</i>
09:50 – 10:10	EDAP+ contributions for geometric validation of optical data	<i>S. Saunier (Telespazio)</i>

Level-2 Validation Session

PART 1

*Chairs: J. Louis (MPC/Telespazio),
C. Brockmann (MPC/Brockmann Consult)*

10:10 – 10:30	A Decade of Vegetation Monitoring with Sentinel-2: Advances in the workflows, Application areas, and Current Limitations	<i>S. Paramanik (University of Southampton)</i>
10:30 – 10:50	Improved in-situ measurements of LAI and fAPAR from ICOS ecosystem stations for validation of Sentinel-2 products	<i>B. Gielen (University of Antwerp)</i>
10:50 – 11:10	An update on the Fiducial Reference Measurements for Vegetation (FRM4Veg) project, summary of Phase 2 and future plans	<i>H. Morris (NPL)</i>
11:10 – 11:30	AI4QC Results from Sentinel-2	<i>J. Harding (Telespazio UK)</i>

Coffee break (11:30 – 12:00)

PART 2

*Chairs: J. Louis (MPC/Telespazio),
C. Brockmann (MPC/Brockmann Consult)*

12:00 – 12:20	Resolving near-coastal remote sensing signal into contributions by bottom, water column, glint, and the adjacency effect	<i>M. Ligi (University of Tartu)</i>
12:20 – 12:40	FRM4Drones-AQUA: Towards Fiducial Reference Measurements for UAV-Based Aquatic Reflectance – Community Insights and Roadmap Development	<i>S. Sterckx (VITO)</i>
12:40 – 13:00	Evaluating the quality of Sentinel-2 aquatic reflectance data over diverse water types and sun and atmosphere conditions using the WATERHYPERNET network	<i>K. Ruddick (RBINS)</i>
13:00 – 13:20	Sentinel-2 Aquatic Reflectance Layer Processor (Sen2Water) and Product Validation Requirements	<i>C. Brockmann (Brockmann Consult GmbH/ OPT-MPC)</i>

Group Photo

Lunch break (13:20 – 14:30)

PART 3

*Chairs: R. de los Reyes (MPC/DLR),
K. Ruddick (RBINS)*

14:30 – 14:50	CMIX-II: Cloud Mask Intercomparison eXercise – second edition	<i>J. Wevers (Brockmann Consult GmbH)</i>
14:50 – 15:10	Cross-Mission Validation of Cloud Masking for Optical Remote Sensing Missions Using Sentinel-5P Cloud Products	<i>E. Padilla (DLR)</i>

15:10 – 15:30	Sentinel-2 Classification Using CNNs Trained on Multi-Label Pre-classification Masks and Validation on Independent Datasets	<i>E. Padilla (DLR)</i>
15:30 – 15:50	Reducing the Parallax Effect in Sentinel-2 Data Through Enhanced Atmospheric Correction with Per-Pixel Angular Input	<i>C. Riegel (DLR)</i>
15:50 – 16:10	Implications of the new EOPF format for Validation and Calibration of Sentinel products	<i>C. Brockmann (Brockmann Consult GmbH/ OPT-MPC)</i>

Coffee break (16:10 – 16:40)

PART 4

Chairs: R. de los Reyes (MPC/DLR),
K. Ruddick (RBINS)

16:40 - 17:00	Generation of synthetic images with a radiative Digital Twin Earth and the Eradiate radiative transfer model to support Sentinel-2 Cal/Val activities	<i>N. Marton (Rayference)</i>
17:00 – 17:20	Validating High-Resolution AOD And Surface Reflectance from Sentinel-2 For Urban and Industrial Applications	<i>S. Mantri (University of Leicester)</i>
17:20 – 17:40	BRDF Effects in Sentinel-2 Data: Assessment and Correction with the HABA-CHIME Algorithm	<i>C.J. Guerrero Benavent (IMP, Univ. of Valencia)</i>

Poster Session & Light Aperitivo (17:40 – 18:40)

End of Day 2 (18:40)

15th October 2025 – Big Hall (ESA-ESRIN)

Level-2 Validation Session

PART 5

Chairs: P. Soille (JRC),
R. Morrone (Starion Group for ESA)

09:30 – 09:50	LANDHYPERNET Data Distribution and Science Results	<i>P. De Vis (NPL)</i>
09:50 – 10:10	On Sentinel-2 Scene Classification Layer for Global Surface Water Occurrence Mapping	<i>P. Soille (JRC)</i>

Downstream Products Validation

PART 1

Chairs: P. Soille (JRC),
G. Doxani (Serco for ESA)

10:10 – 10:30	GROUNDING EO: Reducing bias in LAI and FAPAR retrievals from Sentinel-2	<i>L. Brown (University of Salford)</i>
10:30 – 10:50	Potential of distributed Wireless PAR Sensor Networks for validating Sentinel-2 derived FAPAR and LAI Validation on Independent Datasets	<i>S. Paramanik (University of Southampton)</i>
10:50 – 11:10	A Framework for the Validation of European Thematic Land Products from Copernicus Land Monitoring Service	<i>M. Mayr (EEA)</i>
11:10 – 11:30	Pixel-level validation of land cover maps - an outlook from the perspective of metrology	<i>A. Pustogvar (NPL)</i>

Coffee break (11:30 – 12:00)

PART 2

Chairs: D. Van der Zande (RBINS),
M. Mayr (EEA)

12:00 – 12:20	Towards Remote Sensing Based Benthic Biodiversity Monitoring: Using Multitemporal Sentinel-2 Imageries for Brown Macroalgae Areal Extent Assessment in the Baltic Sea	<i>E. Vahtmae (University of Tartu)</i>
12:20 – 12:40	Copernicus Marine High-Resolution Service: Validation of Implemented Evolutions	<i>D. Van der Zande (RBINS)</i>
12:40 – 13:00	Copernicus Water, Snow and Ice data from Sentinel-2 at European level	<i>M. Denisselle (Magellium)</i>
13:00 – 13:20	Sentinel-2 Water and Ice Cover classification for the Copernicus High-Resolution Water Snow and Ice (HR-WSI) Monitoring Service	<i>M. Denisselle (Magellium)</i>

Lunch break (13:20 – 14:30)

PART 3

Chairs: D. Van der Zande (RBINS),
M. Mayr (EEA)

14:30 – 14:50	Improving the estimation of the snow fraction from Sentinel-2 L2A data for the Copernicus Land pan European HR-WSI production	<i>M. Denisselle (Magellium)</i>
14:50 – 15:10	Product Validation of Water Quality Downstream Services	<i>K. Stelzer (Brockmann Consult GmbH)</i>

15:10 – 15:30	Dredge Plume Monitoring in Coastal Waters	<i>L. De Keukelaere (VITO)</i>
15:30 – 15:50	A validation strategy for the Copernicus Sentinel 2 Atmospheric products	<i>J. Gorroño (University Polytechnic of Valencia)</i>
15:50 – 16:10	Unlocking the Potential of L1A Sentinel-2 Multispectral Imagery for Onboard Artificial Intelligence: Methodology, Dataset Creation, and Future Prospects	<i>R. Del Prete (ESA Φ-lab)</i>

Wrap-Up & Final Discussion

Chairs: V. Boccia (ESA), R. Morrone (Starion Group for ESA)

16:10 – 17:30	Meeting Wrap-Up & Final Discussion	<i>Session Chairs & All</i>
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End of the S2VT Meeting (17:30)