

A decorative graphic consisting of a white circle with a line extending from its top, set against a blue background.

Update on EUMETSAT VIS-NIR GSICS products

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13.08.2025 GSICS web-meeting





Current EUMETSAT VIS-NIR GSICS products

Product Type	Algorithm Type	Data Producer	Maturity Level	Monitored Instrument	Reference Instrument	Version	Data Start Date	Data End Date	Docs / Data Links
Near Real Time Correction (DCC)	GEO-LEO VIS	EUMETSAT	Demonstration	MSG-1 SEVIRI	Aqua MODIS	1	2016-09-09	2018-06-17	Docs Data
Near Real Time Correction (DCC)	GEO-LEO VIS	EUMETSAT	Demonstration	MSG-4 SEVIRI	Aqua MODIS	1	2018-05-07	Present	Docs Data
Near-Real Time Correction (DCC)	GEO-LEO VIS	EUMETSAT	Demonstration	MSG-3 SEVIRI	Aqua MODIS	1	2016-03-19	Present	Docs Data
Re-Analysis Correction (DCC)	GEO-LEO VIS	EUMETSAT	Demonstration	MSG-1 SEVIRI	Aqua MODIS	1	2016-09-09	2022-01-27	Docs Data
Re-Analysis Correction (DCC)	GEO-LEO VIS	EUMETSAT	Demonstration	MSG-3 SEVIRI	Aqua MODIS	1	2016-03-19	Present	Docs Data
Re-Analysis Correction (DCC)	GEO-LEO VIS	EUMETSAT	Demonstration	MSG-4 SEVIRI	Aqua MODIS	1	2018-05-07	Present	Docs Data



- EUMETSAT investigated the connections to our servers and could not identify any regular user.
- MODIS DCC covering only one channel.
- SEVIRI operational L1 VIS/NIR will be corrected (bias+drift) using MICMICS desert vicarious, lunar and DCC by end of 2025. **Strong GSICS impact on the EUMETSAT L1 operational calibration is acknowledged.**
- Inter-calibration accuracy should be better than the calibration accuracy
- **For quality monitoring purposes**, EUMETSAT deployed **MATRICES** (targeting functions of NOAA STAR ICVS and CMA L1 monitoring system) for Met-12 FCI and LI. It features all radiometric (and geometric) user-relevant live monitoring information. Additional missions will be deployed in the next months.

See <https://matrices.eumetsat.int/>

- GEO-ring: EUMETSAT and NOAA are producing a FCDR from all historical measurements from imagers in geostationary orbit that form the Geostationary Ring. With cross-calibrated mapped radiances and spectral band adjustment factors. **The GSICS methods will be employed.**
- **EUMETSAT is announced at the 2025 GSICS annual meeting we are considering discontinuing our GSICS VIS-NIR products.**

- The GSICS Executive Panel and the CGMS WG II supported the following statement:

Acknowledgement of the shift of the GSICS end-product from inter-calibration coefficient products to the operational monitoring of the radiometric performances. The inter-calibration between sensors (or with reference sensors) is essential to detect and address radiometric anomalies, but the GSICS algorithms and methodologies also includes vicarious, on-board calibration monitoring, feedback from L2 etc.

- EUMETSAT thus decided to
 - discontinue its GSICS VIS-NIR and IR products generation and storage.
 - Assess the decommissioning of the EUMETSAT GSICS server (in discussion with partner agencies).
 - Decommission the GSICS plotting tool in favour of MATRICS
- EUMETSAT remain fully committed to the GSICS activities/cooperations, but under a more focussed form.



Home

Meteosat-12

FCI

Instrument Status

Radiance Validation

VNIR Channels

Inter-Calibration with IASI/CrIS

Inter-Calibration with IASI: scatter plots

Geometric Validation

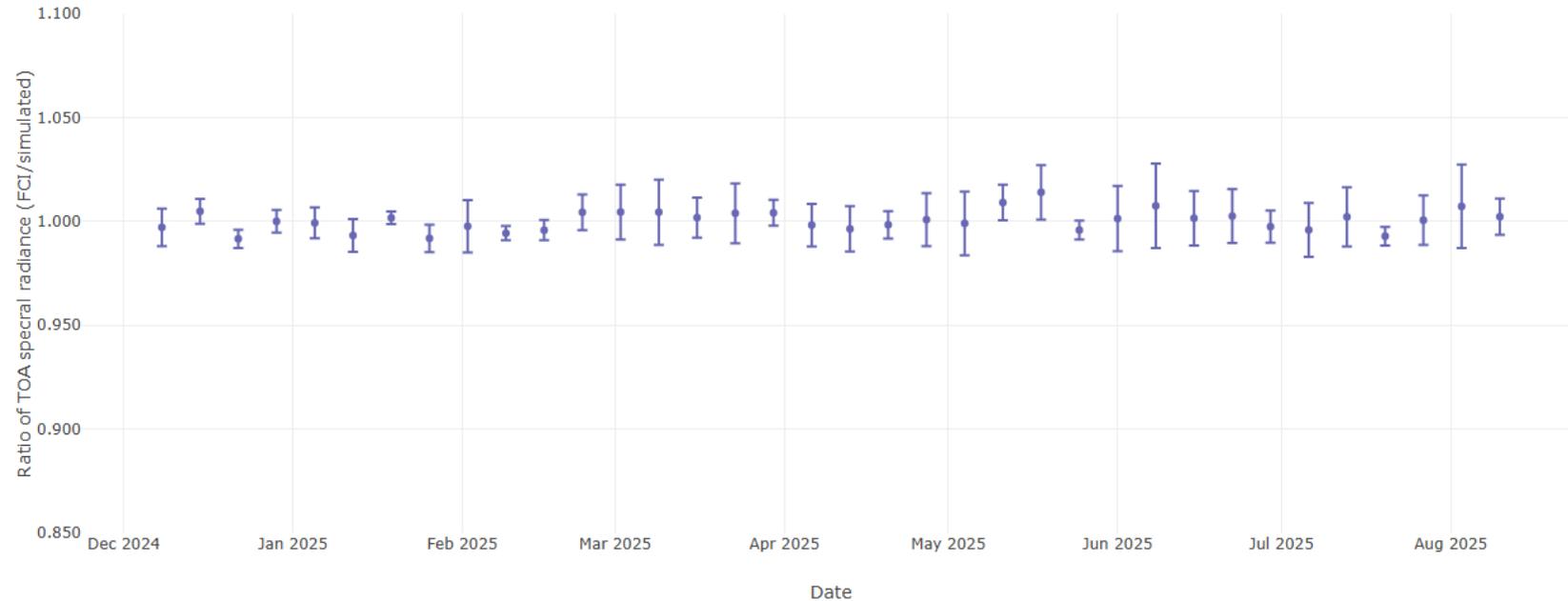
LI

Support

MATRICES Monitoring Analysis Testing, Reporting Integrated Cal/Val System

Meteosat-12, FCI Radiance Validation: VNIR channels

Select a parameter: Absolute Desert Vicarious calibration
 Select band: VIS04
 Start date / time: 05/06/2023 14:41 UTC
 End date / time: 13/08/2025 14:41 UTC





Thank you!
Questions are welcome.