

GOME-2 Metop-A

NRT Quality Monitoring of the GOME-2 FM3 Instrument and Level 1A,B products

Daily report

Start orbit 66563
End orbit 66579

Issue date 2019-08-19 04:32:11
Temporal coverage 2019-08-18 00:00:00 2019-08-18 23:59:59

| NAME | RECORD | FIELD | TH | VALUE | STATUS | ACTION |
|---|----------------------|---------------------------|------------|------------|--------------------|----------|
| CAT1 Mode summary | | | | | | |
| Nadir scans | SPHR | N_NADIR_SCAN | - | 8413 | nominal | - |
| North pole scans | SPHR | N_NTH_POLE_SCAN | - | 0 | nominal | - |
| South pole scans | SPHR | N_STH_POLE_SCAN | - | 0 | nominal | - |
| Other scans | SPHR | N_OTHER_SCAN | - | 0 | nominal | - |
| Static nadir scans | SPHR | N_NADIR_STATIC | - | 0 | nominal | - |
| Other static scans | SPHR | N_OTHER_STATIC | - | 0 | nominal | - |
| Dark MDRs | SPHR | N_DARK | - | 5605 | nominal | - |
| LED MDRs | SPHR | N_LED | - | 0 | nominal | - |
| WLS MDRs | SPHR | N_WLS | - | 33 | nominal | - |
| SLS MDRs | SPHR | N_SLS | - | 33 | nominal | - |
| SLS/Diffuser MDRs | SPHR | N_SLS_DIFF | - | 0 | nominal | - |
| Sun MDRs | SPHR | N_SUN | - | 33 | nominal | - |
| Moon MDRs | SPHR | N_MOON | - | 0 | nominal | - |
| Idle MDRs | SPHR | N_IDLE | - | 0 | nominal | - |
| Test MDRs | SPHR | N_TEST | - | 0 | nominal | - |
| Dump MDRs | SPHR | N_DUMP | - | 0 | nominal | - |
| Invalid MDRs | SPHR | N_INVALID | 138 | 283 | non-nominal | E |
| CAT2 Product critical monitoring results | | | | | | |
| Missing scans | SPHR | N_MISSING_SCANS | 1 | 0 | nominal | - |
| Mean intensity below threshold | SPHR | N_MIN_INTENSITY | 2 | 1 | nominal | - |
| Obs.mode - geolocation mismatch | SPHR | N_MODE_GEOLOCATION | 1 | 0 | nominal | - |
| Invalid UTC time | SPHR | N_INV_UTC | 1 | 0 | nominal | - |
| Non-nominal detector temperature | SPHR | N_NN_DETECTOR_TEMP | 1 | 0 | nominal | - |
| CAT3 Quality critical monitoring results | | | | | | |
| Total scans | SPHR | N_SCANS | - | 14400 | nominal | - |
| Valid with missing datapackets | SPHR | N_VALID_WITH_MISS_DP | 1 | 0 | nominal | - |
| Total missing datapackets | SPHR | N_MISS_DP | 1 | 0 | nominal | - |
| Saturated | SPHR | N_SATURATED | 2 | 0 | nominal | - |
| Hot | SPHR | N_HOT | 240 | 185 | nominal | - |
| Non-nominal PDP temperature | SPHR | N_NN_PDP_TEMP | 1 | 0 | nominal | - |
| Non-nominal radiator temperature | SPHR | N_NN_RAD_TEMP | 1 | 0 | nominal | - |
| Non-nominal WLS voltage | SPHR | N_NN_WLS_U | 3 | 1 | nominal | - |
| Non-nominal WLS current | SPHR | N_NN_WLS_I | 3 | 1 | nominal | - |
| Non-nominal SLS voltage | SPHR | N_NN_SLS_U | 2 | 0 | nominal | - |
| Non-nominal SLS current | SPHR | N_NN_SLS_I | 2 | 0 | nominal | - |
| CAT4 Product quality critical monitoring results | | | | | | |
| Old calibration data | MDR_1A/B | PCD_BASIC.F_OLD_CAL_DATA | 1 | 0 | nominal | - |
| Missing Stokes fractions | SPHR | N_MISS_STOKES | 300.. | 0 | nominal | - |
| Bad Stokes fractions | SPHR | N_BAD_STOKES | 700.. | 12052 | nominal | - |
| Dark mean above threshold | VIADR-1a-Dark | PCD_DARK.F_AV_DARK | 1 | 14 | non-nominal | E |
| Dark noise above threshold | VIADR-1a-Dark | PCD_DARK.F_AV_DARK_NOISE | 5 | 1 | nominal | - |
| Missing dark | VIADR-1a-Dark | PCD_DARK.F_AV_DARK_MISS | 5 | 2 | nominal | - |
| Backup PPG algorithm | VIADR-1a_PPG | PCD_PPG_BACK | 1 | 0 | nominal | - |
| Mean PPG exceeds threshold | VIADR-1a_PPG | PCD_PPG.F_AV_PPG | 1 | 0 | nominal | - |
| PPG stddev exceed threshold | VIADR-1a_PPG | PCD_PPG.F_STDDEV_PPG | 1 | 0 | nominal | - |
| Missing LED | VIADR-1a_PPG | PCD_PPG.PCD_F_PPG_MISS | 1 | 0 | nominal | - |
| SLS missing | VIADR-1a_PPG | PCD_F_SPEC_MISS | 1 | 0 | nominal | - |
| Not enough spectral lines | VIADR-1a-SPEC | PCD_SPEC_N_LINES | 1 | 0 | nominal | - |
| SLS low voltage | SPA-1a-Hk | SLS_U_MAX | 1 | 0 | nominal | - |
| Line deviation above threshold | VIADR-1a-SPEC | PCD_SPEC_MAX_LINE_DEV | 1 | 0 | nominal | - |
| PMD speccal not converged | VIADR-1a-SPEC | PCD_SPEC_F_NO_CONVERGEN.. | 1 | 0 | nominal | - |
| PMD speccal low goodness-of-fit | VIADR-1a-SPEC | PCD_SPEC_F_GOF | 1 | 0 | nominal | - |
| Backup Etalon algorithm | VIADR-1a_ETAL.. | ETALON_BACK | 1 | 0 | nominal | - |
| Eta_res above threshold | VIADR_1a_ETA.. | PCD_F_AV_ETALON | 1 | 0 | nominal | - |
| Eta_res. dev. above threshold | VIADR_1a_ETA.. | PCD_F_STDDEV_ETALON | 1 | 0 | nominal | - |
| Eta_cpgg above threshold | VIADR_1a_ETA.. | PCD_F_AV_RESIDUAL | 1 | 0 | nominal | - |
| Eta_sigma_cpgg above threshold | VIADR_1a_ETA.. | PCD_F_STDDEV_RESIDUAL | 1 | 0 | nominal | - |
| Missing Etalon | VIADR_1a_ETA.. | PCD_ETALON.F_ETALON_MISS | 1 | 0 | nominal | - |
| Missing SUN | VIADR-SMR | PCM_SMR_MISS | 1 | 0 | nominal | - |
| Too few scans for SMR | VIADR-SMR | PCD_SMR.F_N_INTENSITY | 1 | 0 | nominal | - |

[AD1] EPS Programme - Near real time monitoring and quality control of GOME 2 L1 and onboard processing; EPS.OPS.DOC.06.1396

[AD2] EPS Programme Status Report GOME2 - Product Processing from PPF version 3; EPS.OPS.DOC.06.0360

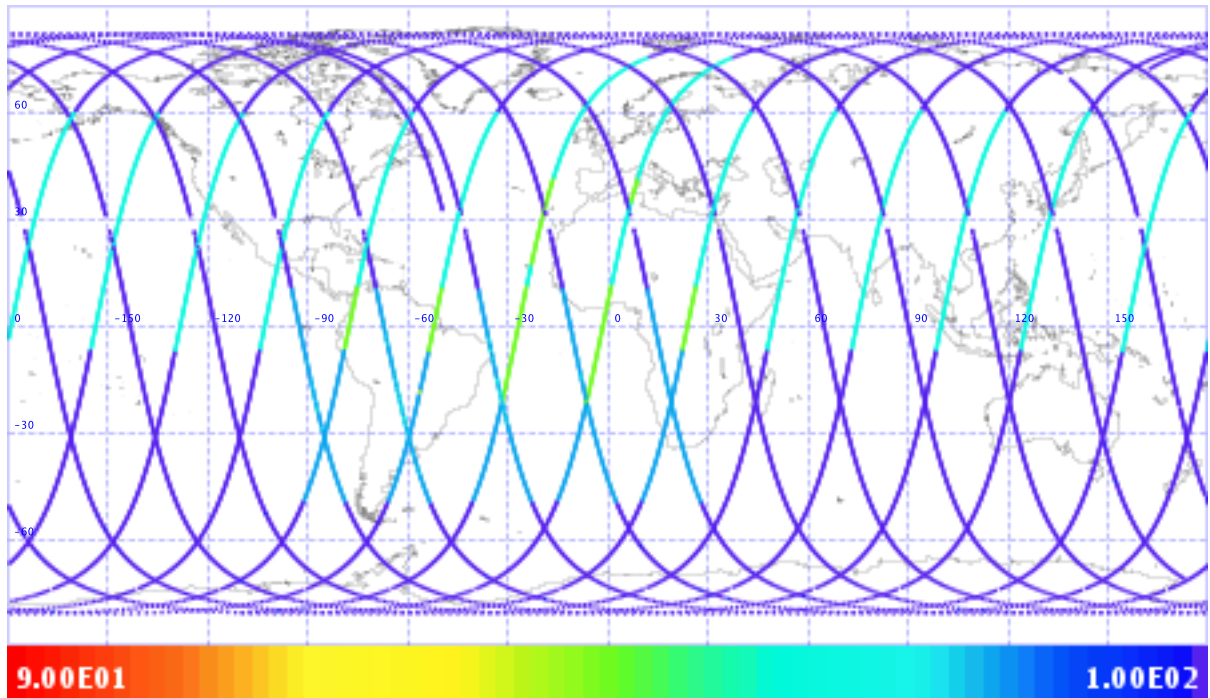
S: Solution required immediately

E: Evaluate (no immediate action needed, evaluation required)

M: Monitor incidence (no immediate action needed, wait for other occurrences)

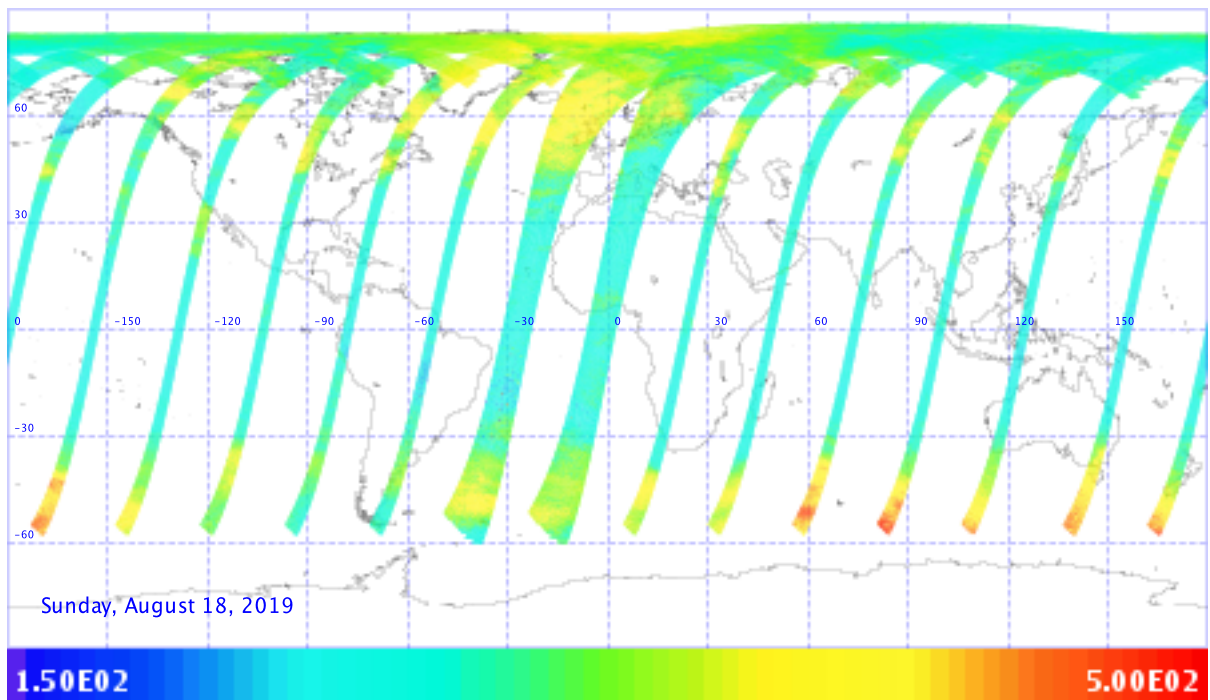
Product quality

2019-08-18 00:00:00 2019-08-18 23:59:59



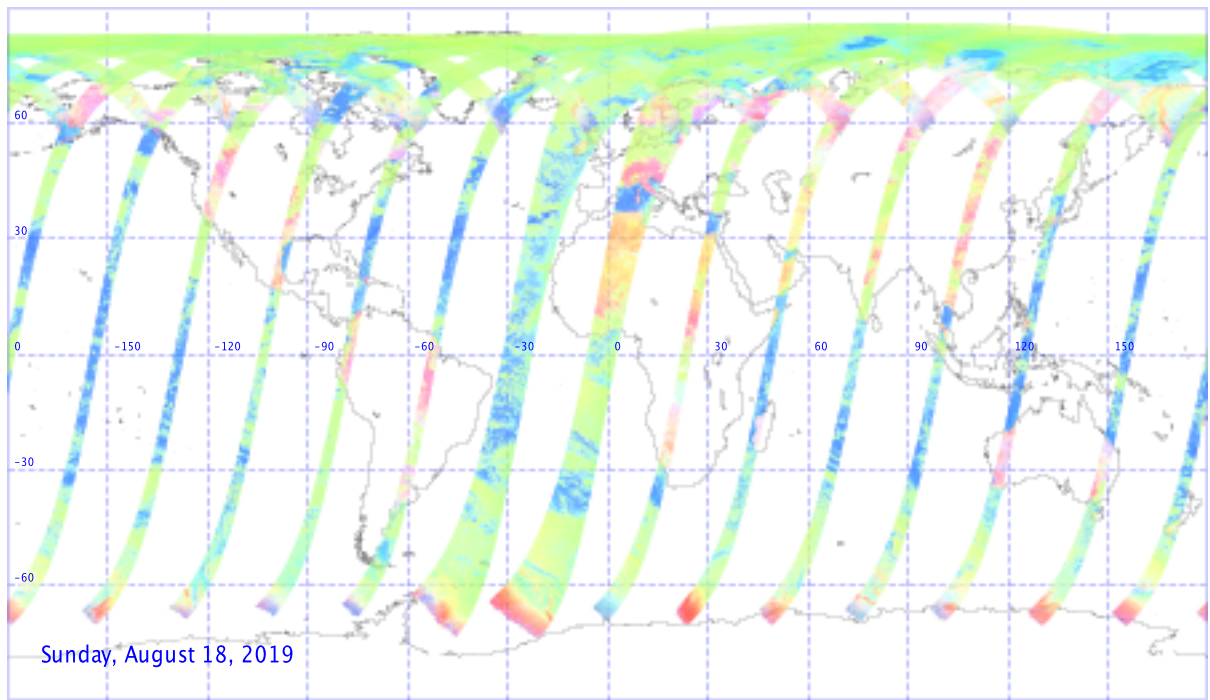
Ozone line ratio

2019-08-18 00:00:00 2019-08-18 23:59:59



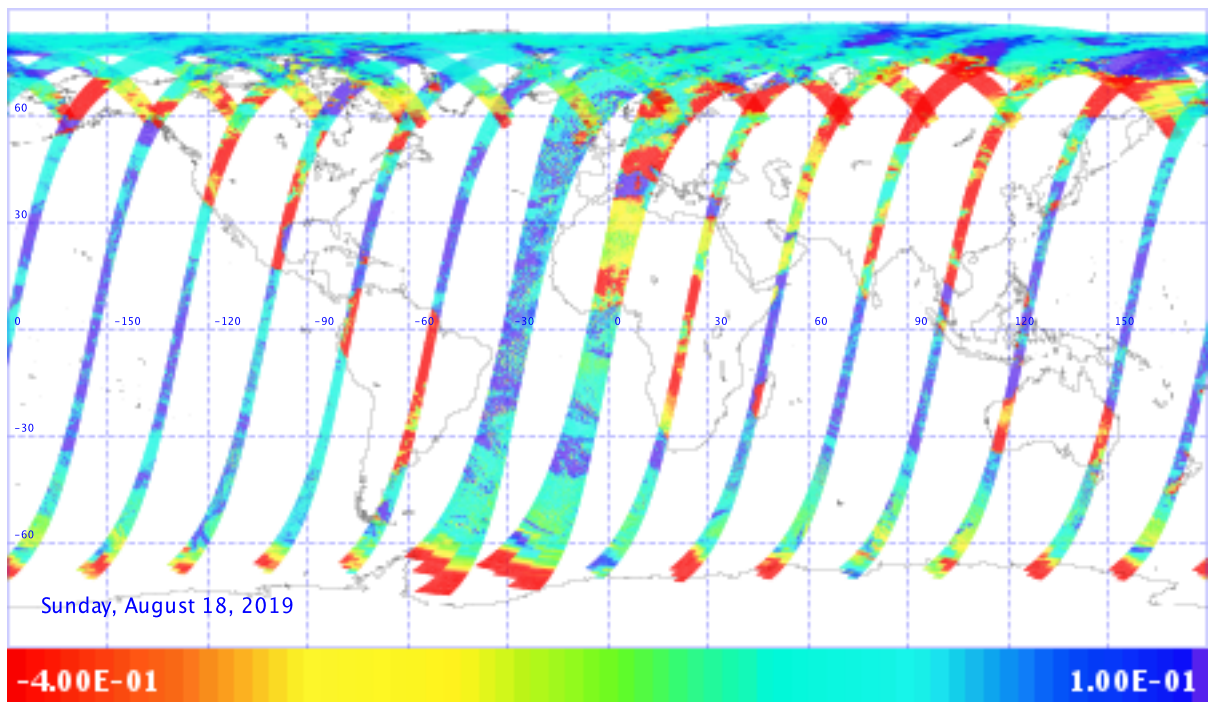
False colour image

2019-08-18 00:00:00 2019-08-18 23:59:59



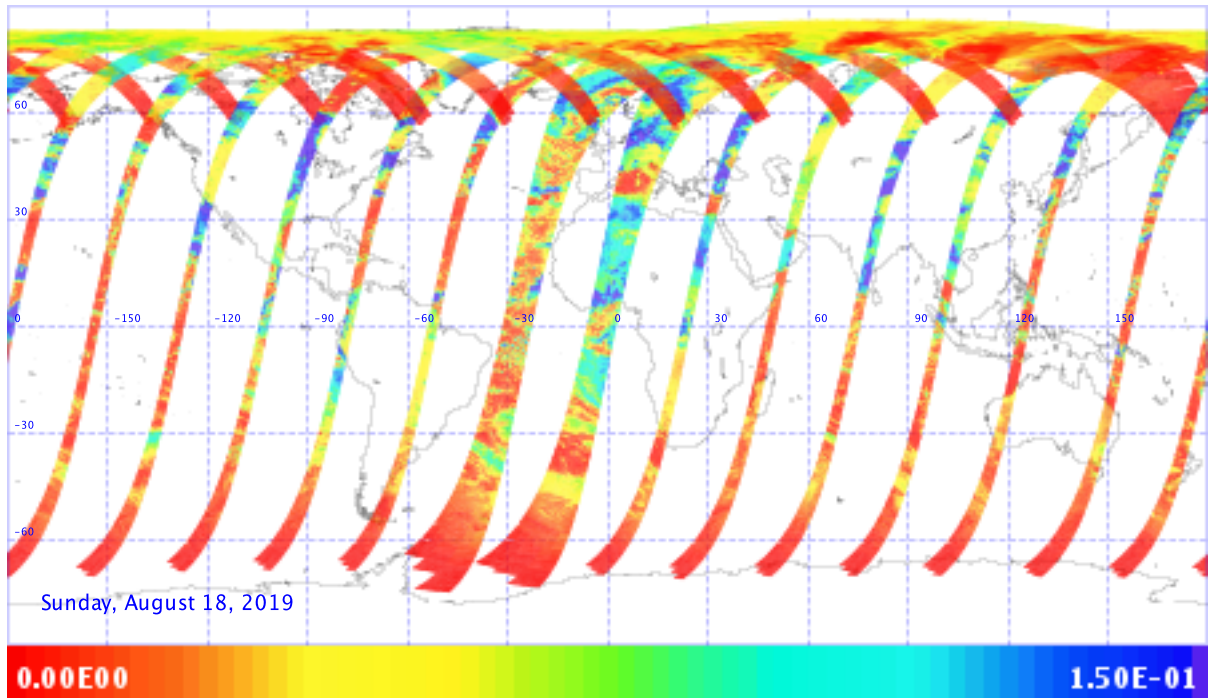
NDVI proxy

2019-08-18 00:00:00 2019-08-18 23:59:59



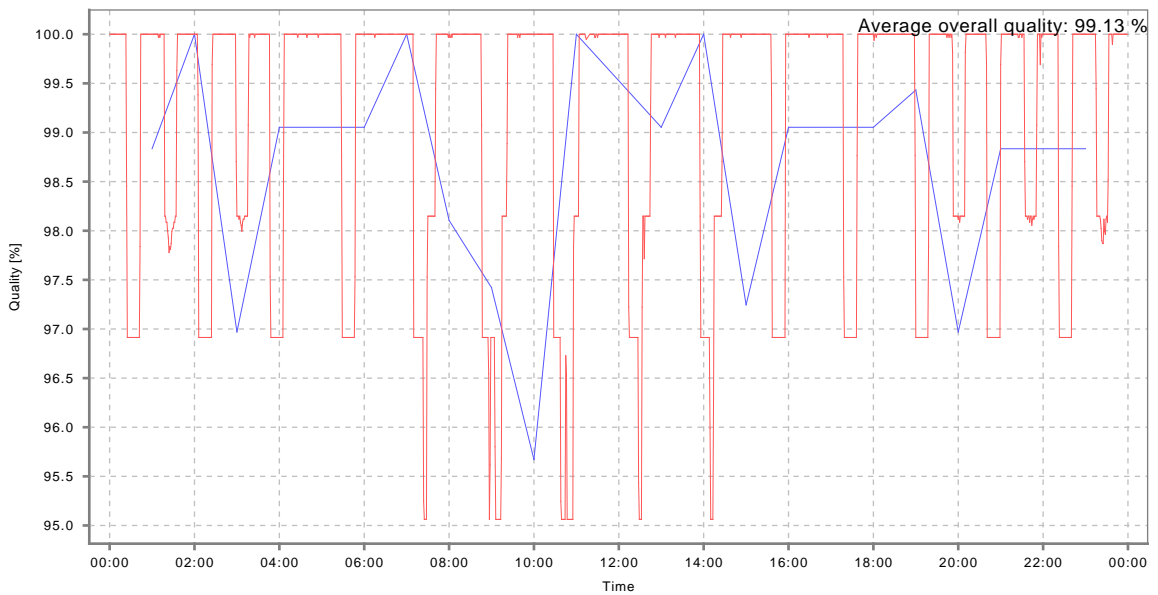
Near-Infrared

2019-08-18 00:00:00 2019-08-18 23:59:59



Product quality indicator

2019-08-17 23:31:13 2019-08-19 00:27:46



- Overall quality (CAT 2-4)
- Dark correction quality
- PPG correction quality
- Etalon correction quality
- SpecCal quality
- SMR quality

Reflectance (Sahara)

2019-08-18 00:00:00 2019-08-18 23:59:59



— Reflectance (subset 0)[20190818000000 - 20190818235959]

Reflectance (Pacific)

2019-08-18 00:00:00 2019-08-18 23:59:59



— Reflectance (subset 1)[20190818000000 - 20190818235959]

Reflectance (Greenland)

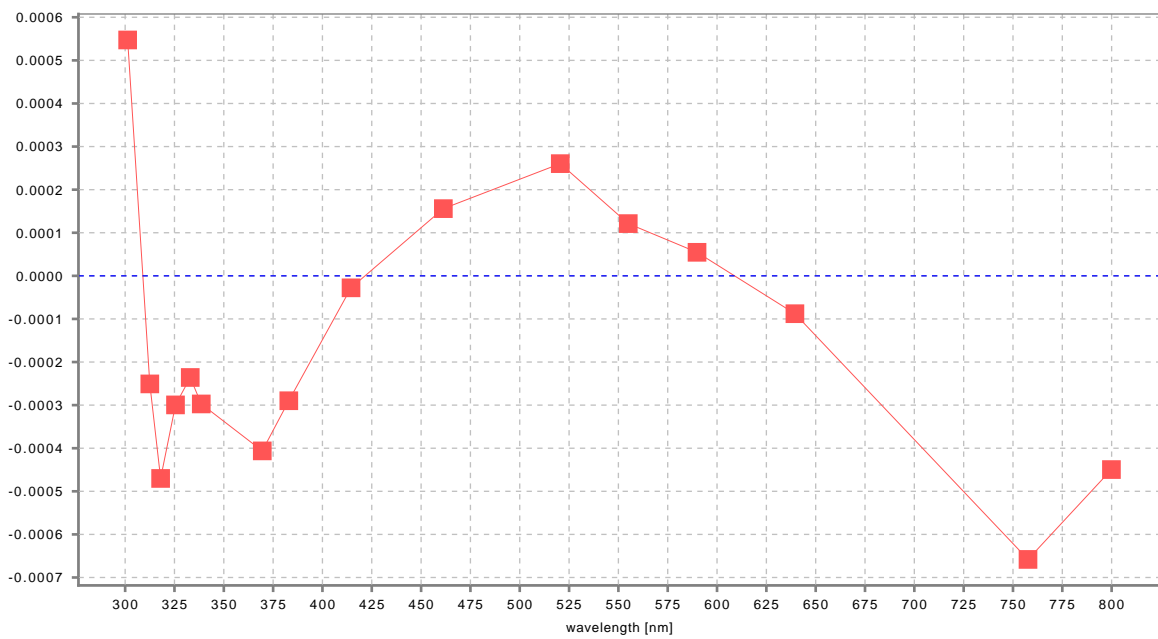
2019-08-18 00:00:00 2019-08-18 23:59:59



— Reflectance (subset 2)[20190818000000 - 20190818235959]

Earth Stokes fractions

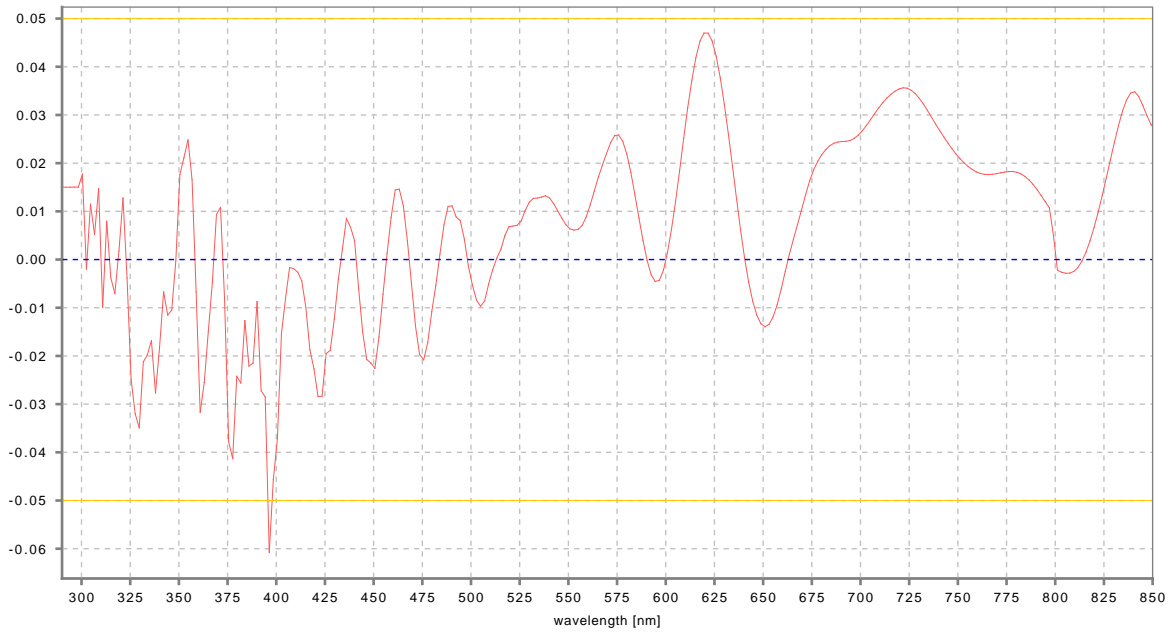
2019-08-18 00:00:00 2019-08-18 23:59:59



— Earth Stokes fractions for special geometries[20190818000000 - 20190818235959]

Sun Stokes fractions

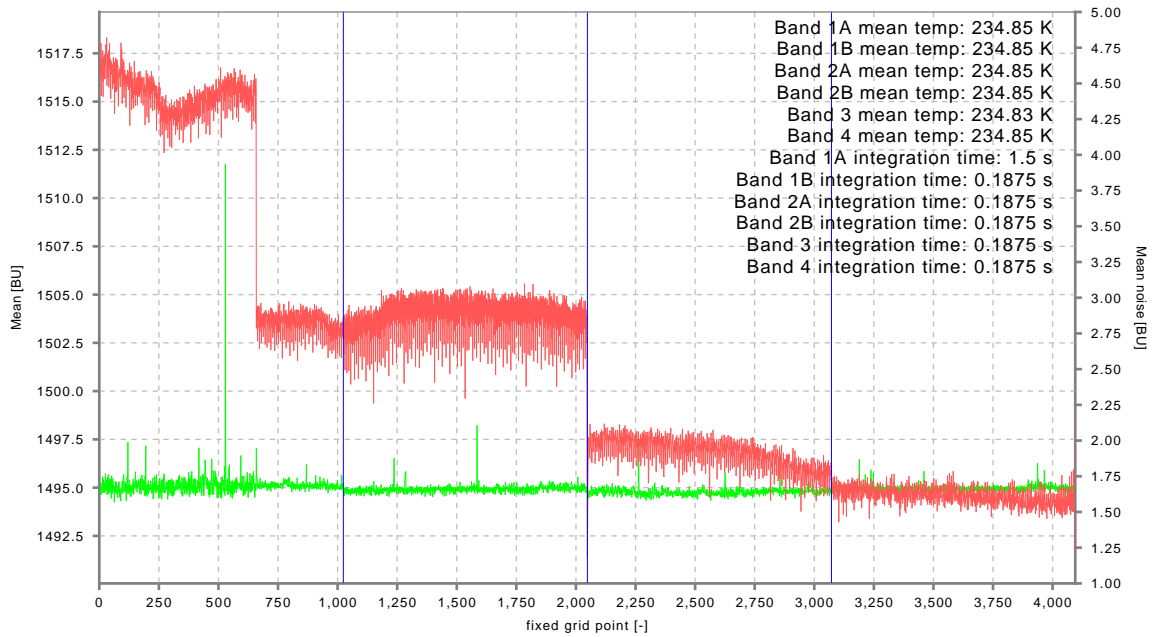
2019-08-18 00:00:00 2019-08-18 23:59:59



— Sun Stokes fractions[20190818000000 - 20190818235959]

Dark correction FPA

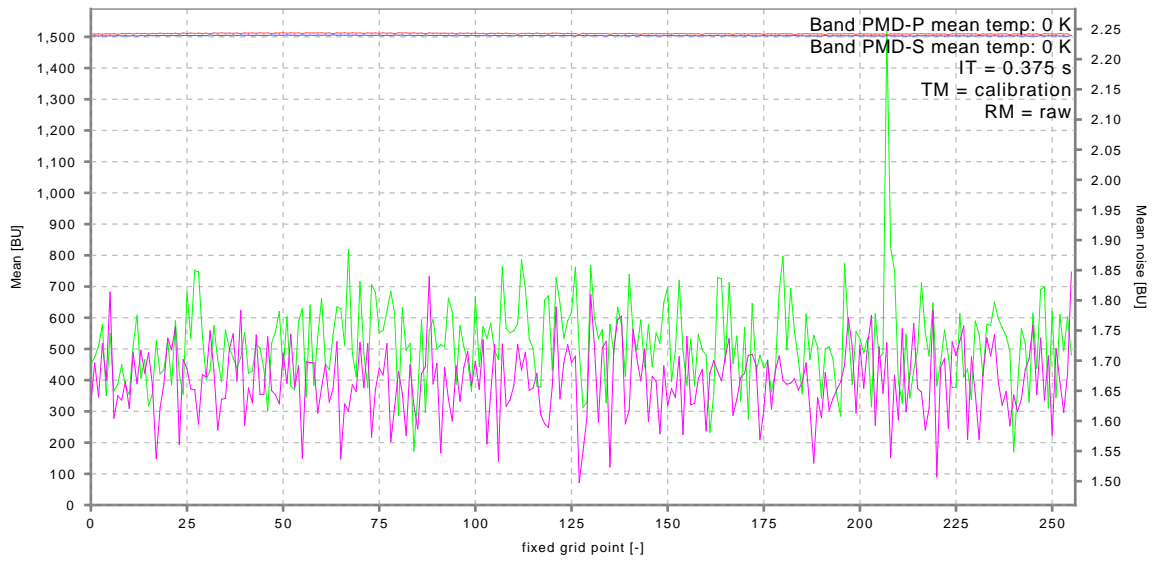
2019-08-18 00:00:00 2019-08-18 23:59:59



— Dark correction[20190818000000 - 20190818235959] — Mean noise[20190818000000 - 20190818235959]

Dark signal PMD (raw)

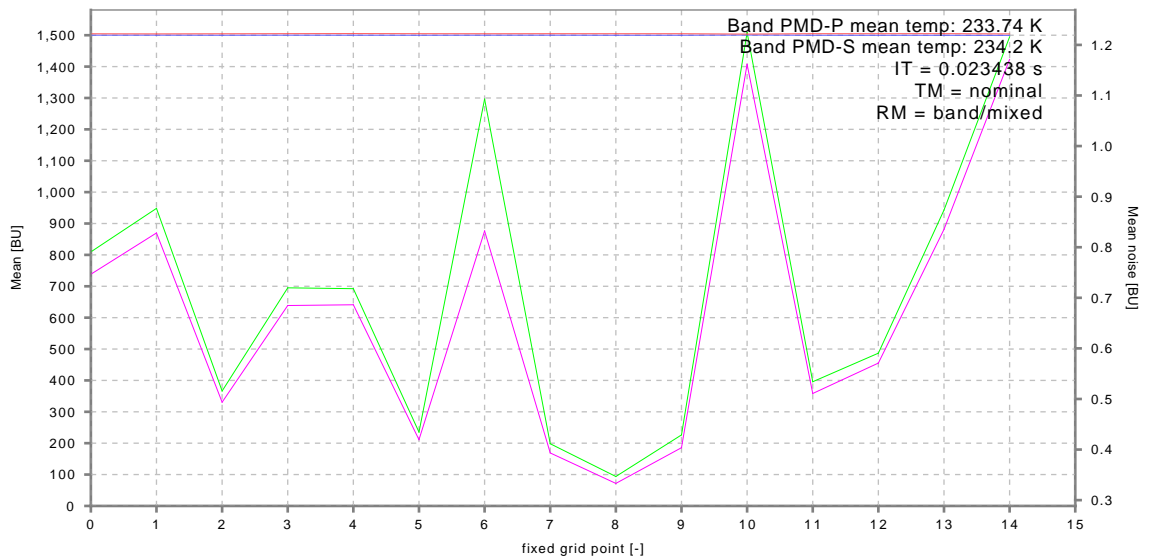
2019-08-18 00:00:00 2019-08-18 23:59:59



- PMD-P[20190818000000 - 20190818235959] — PMD-S[20190818000000 - 20190818235959]
- PMD-P Mean noise[20190818000000 - 20190818235959]
- PMD-S Mean noise[20190818000000 - 20190818235959]

Dark signal PMD (band)

2019-08-18 00:00:00 2019-08-18 23:59:59



- PMD-P[20190818000000 - 20190818235959] — PMD-S[20190818000000 - 20190818235959]
- PMD-S Mean noise[20190818000000 - 20190818235959]
- PMD-P Mean noise[20190818000000 - 20190818235959]

LED Mean (FPA)

-

-

No data loaded

LED Mean (PMD)

-

-

No data loaded

PPG FPA

- -

No data loaded

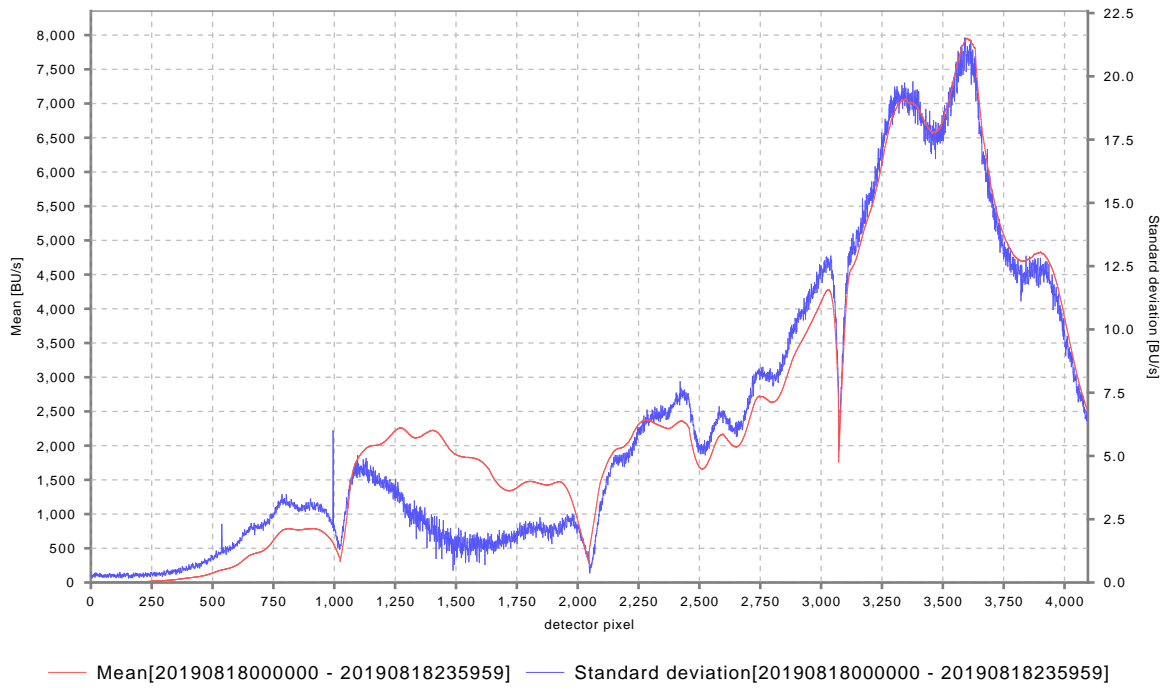
PPG PMD

- -

No data loaded

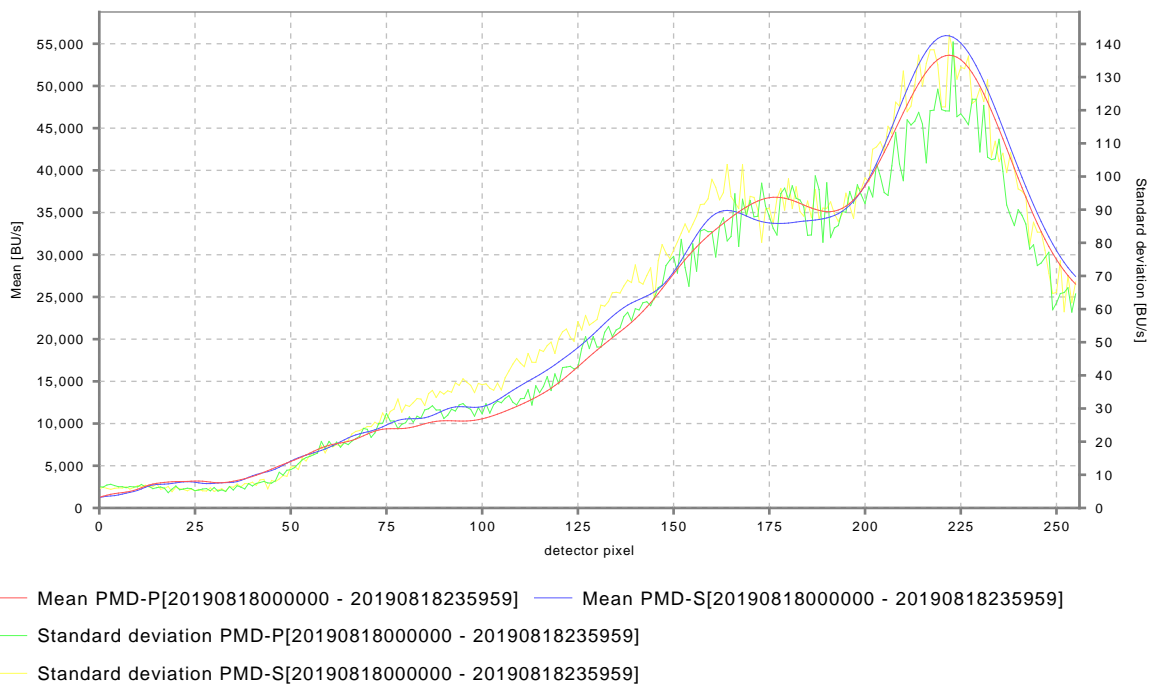
WLS mean (FPA)

2019-08-18 00:00:00 2019-08-18 23:59:59



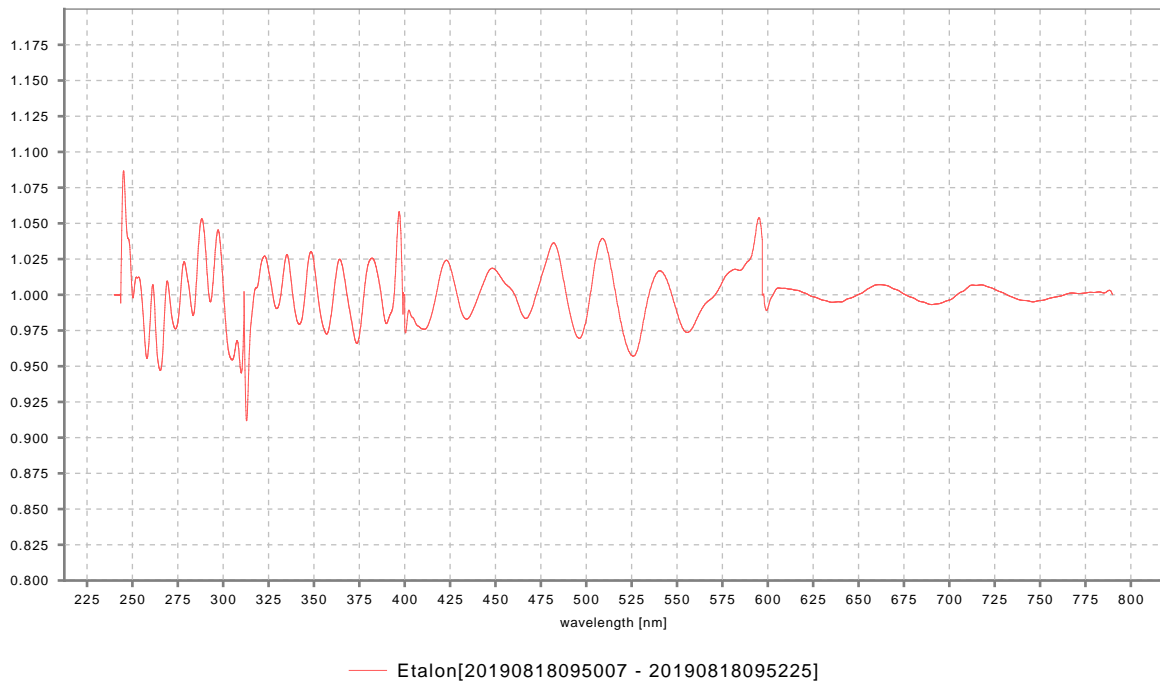
WLS Mean (PMD)

2019-08-18 00:00:00 2019-08-18 23:59:59



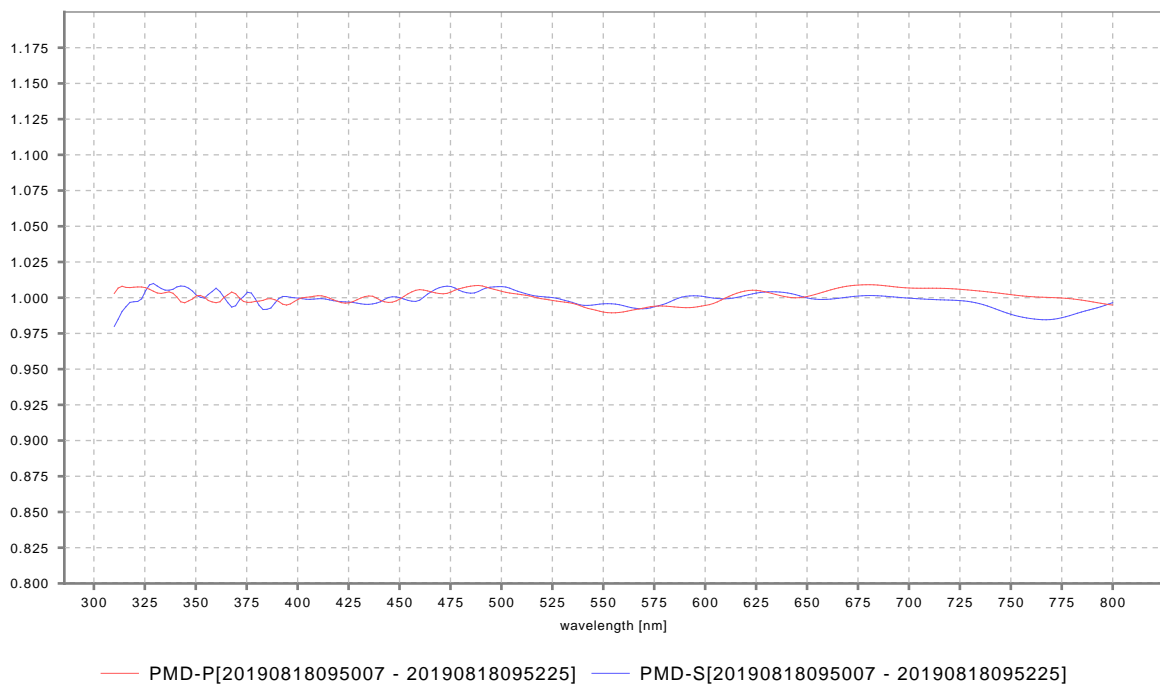
Etalon correction FPA

2019-08-18 09:50:07 2019-08-18 09:52:25



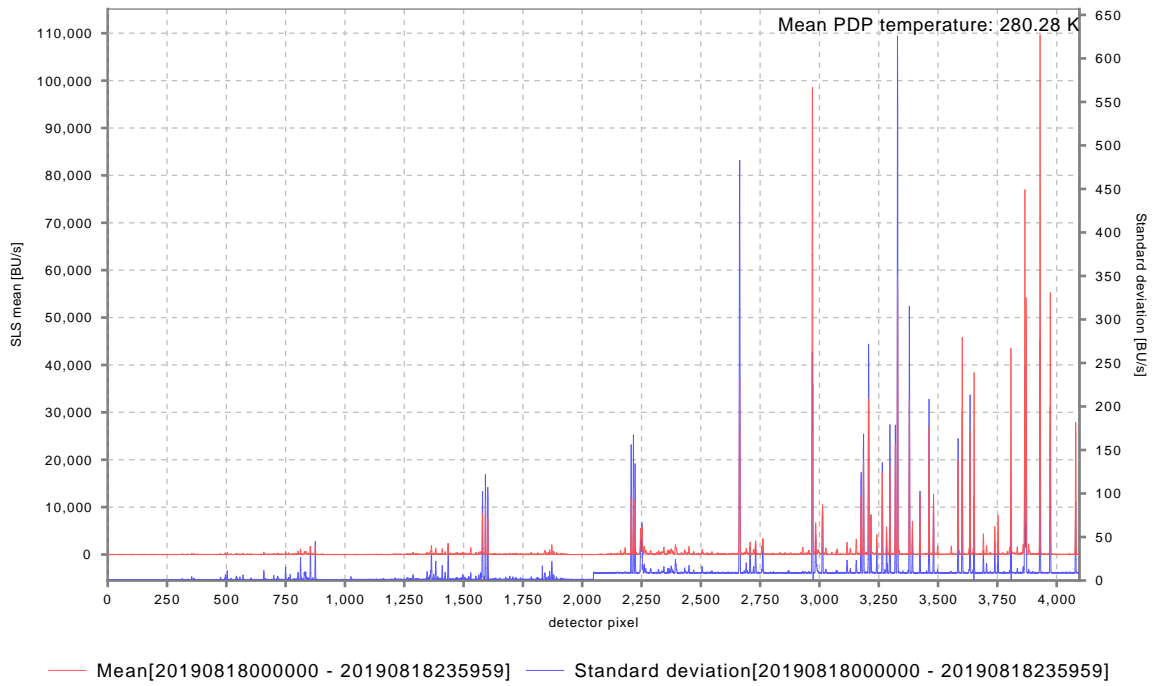
Etalon correction PMD

2019-08-18 09:50:07 2019-08-18 09:52:25



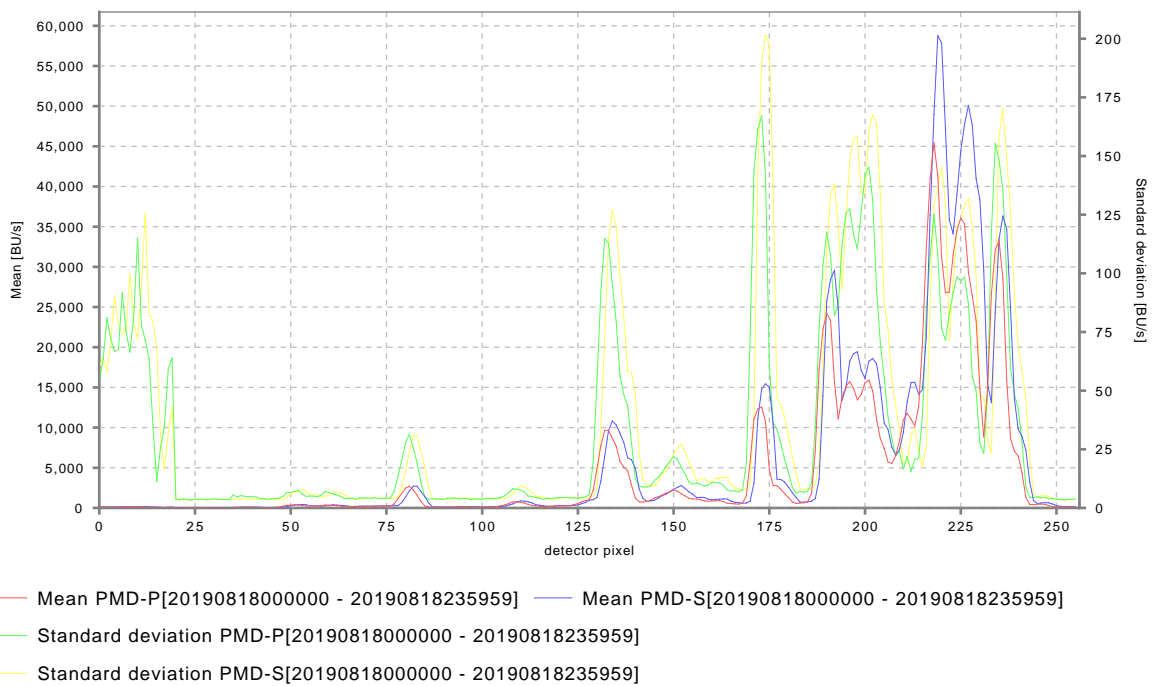
SLS mean / stddev

2019-08-18 00:00:00 2019-08-18 23:59:59



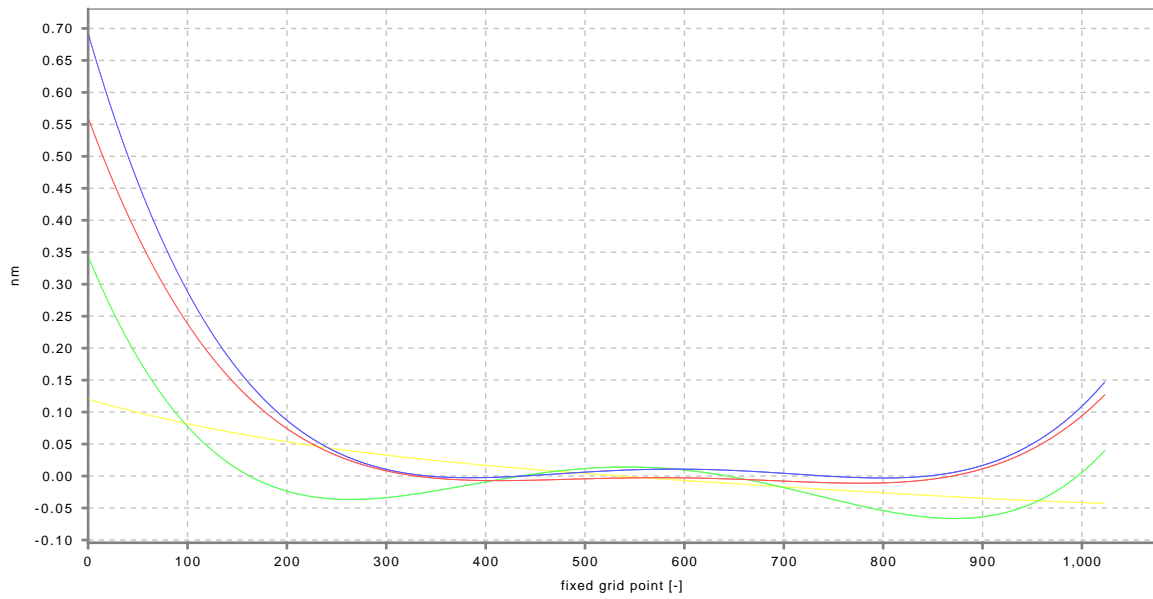
SLS Mean (PMD)

2019-08-18 00:00:00 2019-08-18 23:59:59



Lambda shift wrt. keydata (FPA)

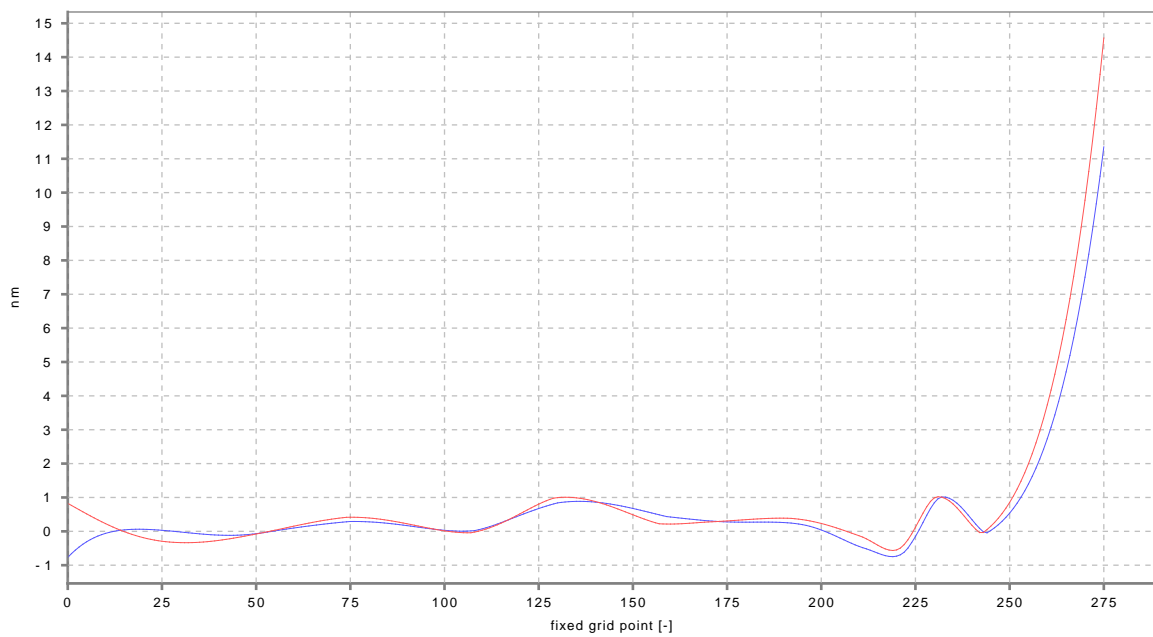
2019-08-18 00:00:00 2019-08-18 23:59:59



Channel 1 [20190818000000 - 20190818235959] Channel 2 [20190818000000 - 20190818235959]
Channel 3 [20190818000000 - 20190818235959] Channel 4 [20190818000000 - 20190818235959]

Lambda shift wrt. key data (PMD)

2019-08-18 00:00:00 2019-08-18 23:59:59



Channel PMD-P [20190818000000 - 20190818235959] Channel PMD-S [20190818000000 - 20190818235959]

Fitted shifts (Fraunhofer)

2019-08-18 10:16:37 2019-08-18 10:17:40



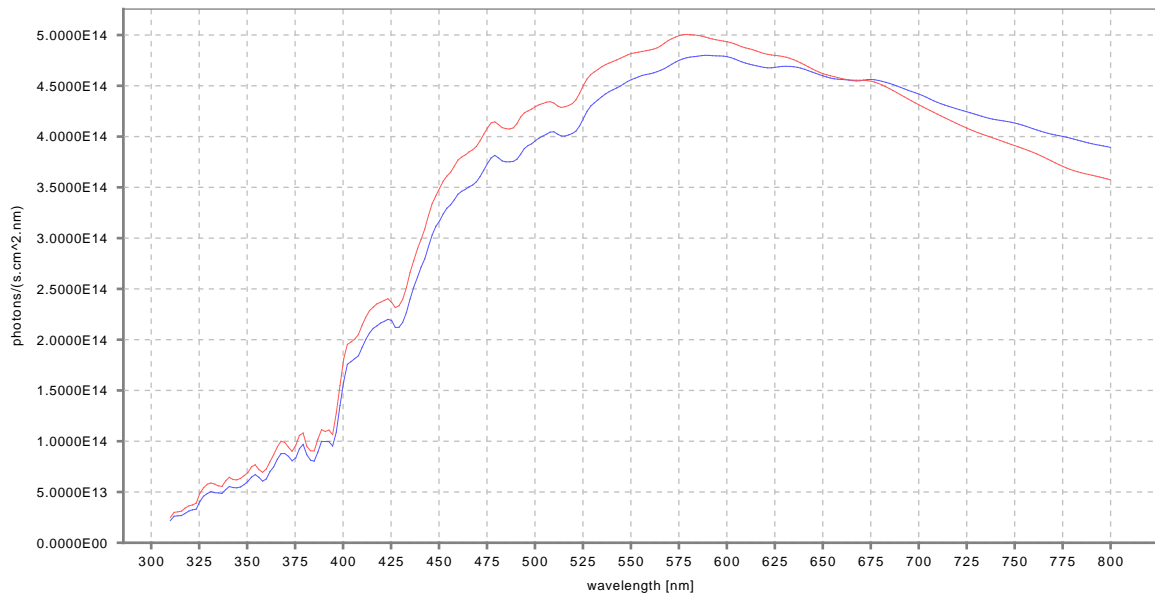
SMR FPA

2019-08-18 10:16:37 2019-08-18 10:17:40



SMR PMD

2019-08-18 10:16:37 2019-08-18 10:17:40

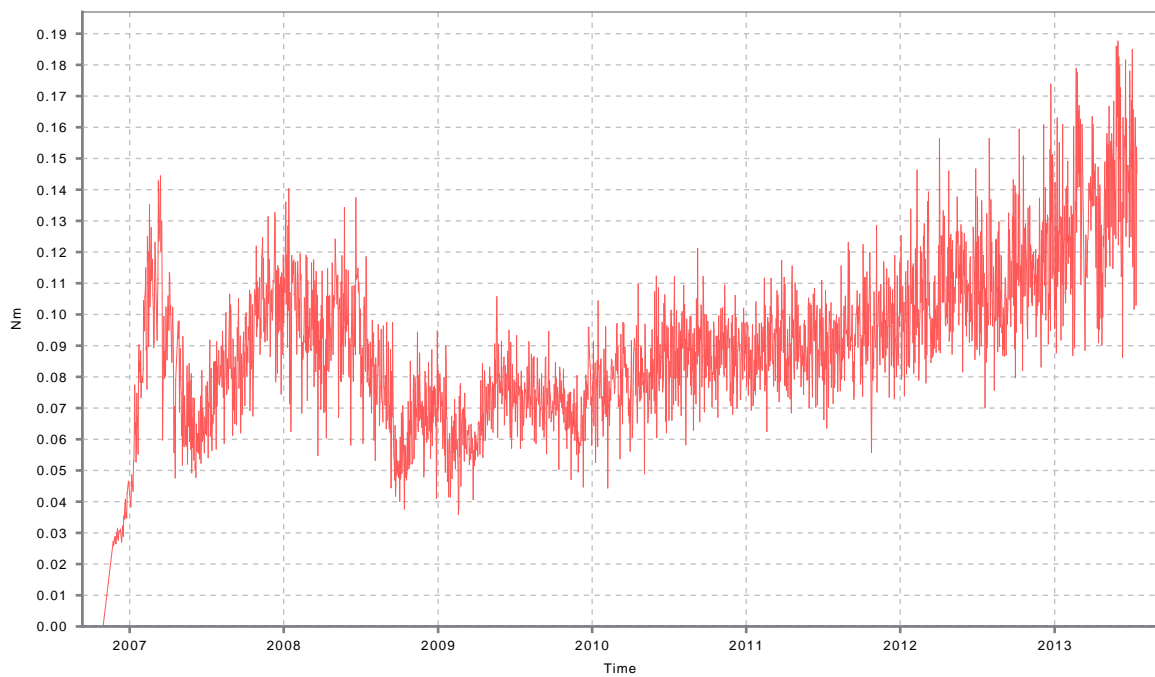


— PMD-P (latest available)[20190818101637 - 20190818101740]

— PMD-S (latest available)[20190818101637 - 20190818101740]

Scan motor torque statistics

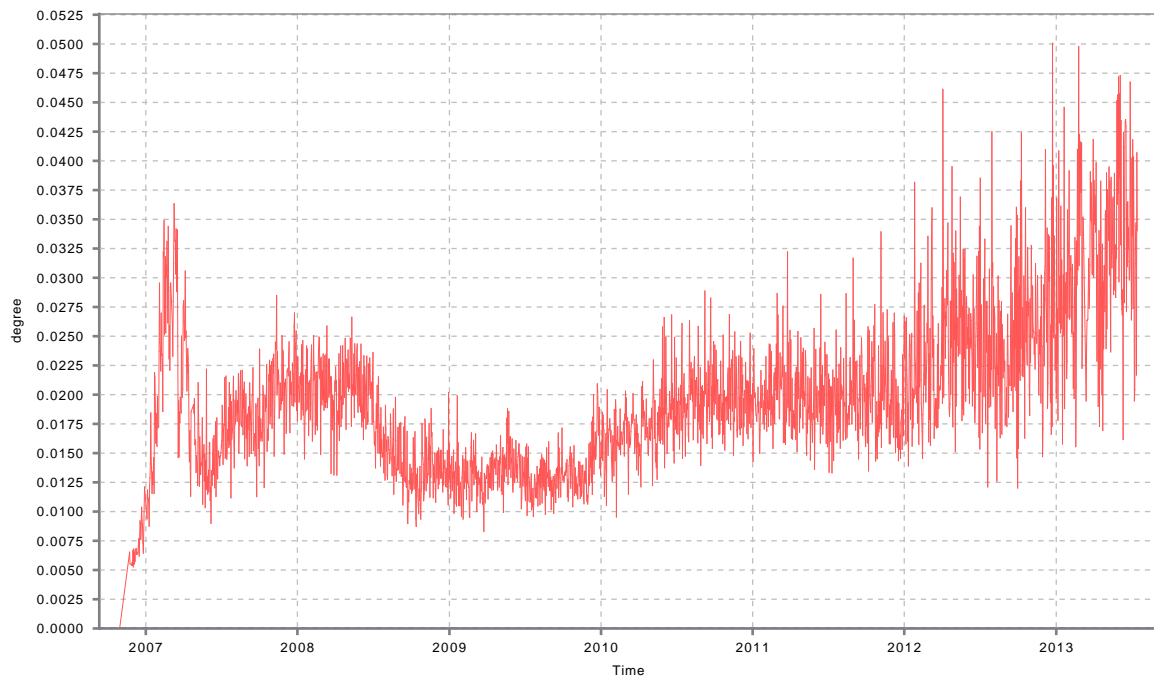
2006-09-11 00:00:00 2013-09-02 00:00:00



Torque profile

Scan mirror pos statistics

2006-09-11 00:00:00 2013-09-02 00:00:00



Scan mirror position

Input data gaps

2019-08-18 00:00:00 2019-08-18 23:59:59

