# GOMOS Daily Report 22-DEC-2007

## Level 0 and Level 1 products

### SUMMARY


1. General Info

2. Summary of products arrived in PCF (Product Control Facility)
   - 2.1 Level 0: products arrived in PCF during current month (see template here)
   - 2.2 Level 0: plot of mission plan versus production during reporting period
   - 2.3 Level 0: summary of missing occultations with respect to the plan
   - 2.4 Level 1: products arrived in PCF during reporting period

3. Plot of Spectrometers and Photometers temperatures

4. Dark Charge monitoring
   - 4.1 Products that did not use the Dark Sky Area observation for DC computation
   - 4.2 Plot of Dark Charge

5. Demodulation correction and quality product information monitoring
   - 5.1 Percentage of products with some flags set
   - 5.2 Plot of quality information per product (time dependant)
   - 5.3 Plot of quality information per product (world map)

6. Star tangent altitude lost
   - 6.1 Statistics on star tangent altitude lost
   - 6.2 Plot of star tangent altitude lost: DARK products
   - 6.3 Plot of star tangent altitude lost: BRIGHT products
   - 6.3 Plot of star tangent altitude lost: TWILIGHT products

7. Star Acquisition and Tracking Unit (SATU)
   - 7.1 SATU plots (dark limb): 'X' and 'Y' axis
   - 7.2 SATU Noise Equivalent Angle statistics
     - 7.2.1 SATU NEA Statistics (table)
       - 7.2.2 Daily SATU NEA STD (dark limb) - trend since 1st April 2006

8.Auxiliary Data Files used for the production reported in section 2.4


## Level 2 products

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### 1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P).
It is intended to monitor some important parameters that will impact the quality of the level 2 products
as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle...
A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

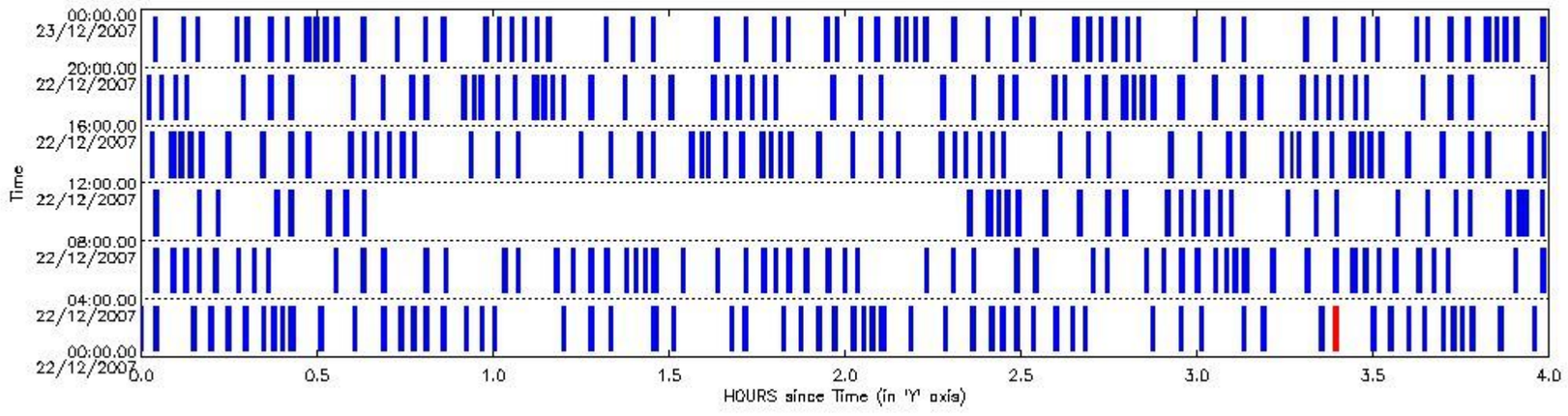
| Item | Value |
|---|---|
| Time of report generation | 24DEC2007 05:48:23 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (22DEC2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (23DEC2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 49 |
| Nb of prods with errors | 1 |

## *2. Summary of products arrived in PCF (Product Control Facility)*

### *2.1 Level 0 products arrived in PCF (see template here)*

### *2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period*

Red segments are missing products.
Blue segments are available products.
Green segments are calibration measurements (not available products to users).




### *2.3 Summary of missing occultations (red segments in previous plot)*

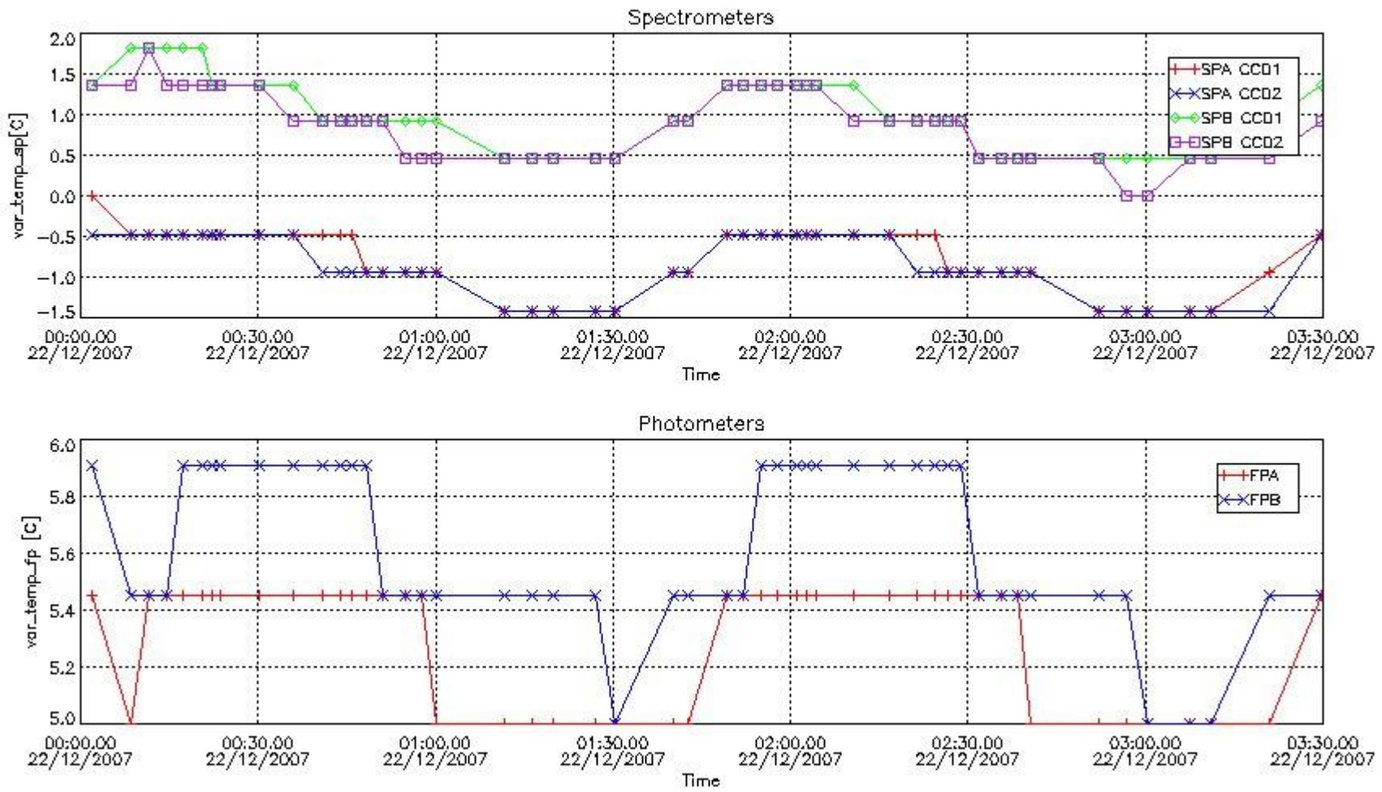
| UTC start time | Star name | Star ID | Orbit |
|---|---|---|---|
| 22-DEC-2007 03:23:11 | 9Alp2Lib | 122 | 30375 |

### *2.4 Summary of processed GOM_TRA_1P products*

| Nr | Filename | UTC Start time | Limb | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | GOM_TRA_1PNPDE20071222_000159_000000542064_00259_30373_6009.N1 | 22-DEC-2007 00:01:59 | Bright | 54.000 | 122 | 9Alp2Lib | 2.7470 | 9700.0 | 108 | 30373 | Yes |
| 2 | GOM_TRA_1PNPDE20071222_000833_000000462064_00259_30373_6010.N1 | 22-DEC-2007 00:08:33 | Dark | 46.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 92 | 30373 | No |
| 3 | GOM_TRA_1PNPDE20071222_001130_000000382064_00259_30373_6011.N1 | 22-DEC-2007 00:11:30 | Dark | 38.000 | 95 | Zet Cen | 2.5450 | 26000. | 76 | 30373 | No |
| 4 | GOM_TRA_1PNPDE20071222_001428_000000432064_00259_30373_6012.N1 | 22-DEC-2007 00:14:28 | Dark | 42.500 | 64 | Gam Cen | 2.2000 | 10600. | 85 | 30373 | No |
| 5 | GOM_TRA_1PNPDE20071222_001712_000000492064_00260_30374_6013.N1 | 22-DEC-2007 00:17:12 | Dark | 48.500 | 12 | Alp1Cru | 0.77500 | 30000. | 97 | 30374 | No |
| 6 | GOM_TRA_1PNPDE20071222_002027_000000382064_00260_30374_6014.N1 | 22-DEC-2007 00:20:27 | Dark | 38.000 | 124 | The Car | 2.7640 | 30000. | 76 | 30374 | No |
| 7 | GOM_TRA_1PNPDE20071222_002211_000000392064_00260_30374_6015.N1 | 22-DEC-2007 00:22:11 | Dark | 38.500 | 159 | Ups Car | 2.9200 | 7200.0 | 77 | 30374 | No |
| 8 | GOM_TRA_1PNPDE20071222_002340_000000412064_00260_30374_6016.N1 | 22-DEC-2007 00:23:40 | Dark | 41.000 | 71 | Iot Car | 2.2460 | 7700.0 | 82 | 30374 | No |
| 9 | GOM_TRA_1PNPDE20071222_003009_000000462064_00260_30374_6017.N1 | 22-DEC-2007 00:30:09 | Dark | 46.000 | 2 | Alp Car | -0.73600 | 7000.0 | 92 | 30374 | No |
| 10 | GOM_TRA_1PNPDE20071222_003602_000000412064_00260_30374_6018.N1 | 22-DEC-2007 00:36:02 | Straylight | 40.500 | 108 | Alp Col | 2.6520 | 15200. | 81 | 30374 | No |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | GOM_TRA_1PNPDE20071222_004052_000000422064_00260_30374_6019.N1 | 22-DEC-2007 00:40:52 | Straylight | 42.000 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 84 | 30374 | No |
| 12 | GOM_TRA_1PNPDE20071222_004350_000000542064_00260_30374_6020.N1 | 22-DEC-2007 00:43:50 | Straylight | 53.500 | 7 | 19Bet Ori | 0.10000 | 14000. | 107 | 30374 | No |
| 13 | GOM_TRA_1PNPDE20071222_004555_000000462064_00260_30374_6021.N1 | 22-DEC-2007 00:45:55 | Straylight | 46.000 | 30 | 46Eps Ori | 1.6940 | 30000. | 92 | 30374 | No |
| 14 | GOM_TRA_1PNPDE20071222_004812_000000452064_00260_30374_6022.N1 | 22-DEC-2007 00:48:12 | Twi_and_stray | 45.000 | 27 | 24Gam Ori | 1.6360 | 26000. | 90 | 30374 | No |
| 15 | GOM_TRA_1PNPDE20071222_005104_000000472064_00260_30374_6023.N1 | 22-DEC-2007 00:51:04 | Twi_and_stray | 47.000 | 13 | 87Alp Tau | 0.86700 | 3800.0 | 94 | 30374 | No |
| 16 | GOM_TRA_1PNPDE20071222_005458_000000412064_00260_30374_6024.N1 | 22-DEC-2007 00:54:58 | Bright | 41.000 | 28 | 12Bet Tau | 1.6500 | 15200. | 82 | 30374 | No |
| 17 | GOM_TRA_1PNPDE20071222_005746_000000342064_00260_30374_6025.N1 | 22-DEC-2007 00:57:46 | Bright | 34.000 | 149 | 45Eps Per | 2.8880 | 30000. | 68 | 30374 | No |
| 18 | GOM_TRA_1PNPDE20071222_010000_000000332064_00260_30374_6026.N1 | 22-DEC-2007 01:00:00 | Bright | 33.000 | 175 | 39Del Per | 3.0100 | 19400. | 66 | 30374 | No |
| 19 | GOM_TRA_1PNPDE20071222_011138_000000352064_00260_30374_6027.N1 | 22-DEC-2007 01:11:38 | Bright | 35.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 70 | 30374 | No |
| 20 | GOM_TRA_1PNPDE20071222_011617_000000382064_00260_30374_6028.N1 | 22-DEC-2007 01:16:17 | Bright | 37.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 75 | 30374 | No |
| 21 | GOM_TRA_1PNPDE20071222_011945_000000372064_00260_30374_6029.N1 | 22-DEC-2007 01:19:45 | Bright | 36.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 73 | 30374 | No |
| 22 | GOM_TRA_1PNPDE20071222_012700_000000572064_00260_30374_6030.N1 | 22-DEC-2007 01:27:00 | Bright | 57.000 | 180 | 27Gam Boo | 3.0400 | 8000.0 | 114 | 30374 | No |
| 23 | GOM_TRA_1PNPDE20071222_013020_000000372064_00260_30374_6031.N1 | 22-DEC-2007 01:30:20 | Bright | 37.000 | 83 | | 2.3780 | 11000. | 74 | 30374 | No |
| 24 | GOM_TRA_1PNPDE20071222_014014_000000342064_00260_30374_6032.N1 | 22-DEC-2007 01:40:14 | Bright | 33.500 | 104 | 27Bet Lib | 2.6140 | 13100. | 67 | 30374 | No |
| 25 | GOM_TRA_1PNPDE20071222_014236_000000362064_00260_30374_6432.N1 | 22-DEC-2007 01:42:36 | Bright | 36.000 | 122 | 9Alp2Lib | 2.7470 | 9700.0 | 72 | 30374 | No |
| 26 | GOM_TRA_1PNPDE20071222_014909_000000422064_00260_30374_6433.N1 | 22-DEC-2007 01:49:09 | Dark | 41.500 | 54 | 5The Cen | 2.0550 | 4500.0 | 83 | 30374 | No |
| 27 | GOM_TRA_1PNPDE20071222_015206_000000382064_00260_30374_6434.N1 | 22-DEC-2007 01:52:06 | Dark | 38.000 | 95 | Zet Cen | 2.5450 | 26000. | 76 | 30374 | No |
| 28 | GOM_TRA_1PNPDE20071222_015505_000000432064_00260_30374_6435.N1 | 22-DEC-2007 01:55:05 | Dark | 43.000 | 64 | Gam Cen | 2.2000 | 10600. | 86 | 30374 | No |
| 29 | GOM_TRA_1PNPDE20071222_015748_000000412064_00261_30375_6436.N1 | 22-DEC-2007 01:57:48 | Dark | 40.500 | 12 | Alp1Cru | 0.77500 | 30000. | 81 | 30375 | No |
| 30 | GOM_TRA_1PNPDE20071222_020104_000000382064_00261_30375_6437.N1 | 22-DEC-2007 02:01:04 | Dark | 38.000 | 124 | The Car | 2.7640 | 30000. | 76 | 30375 | No |
| 31 | GOM_TRA_1PNPDE20071222_020247_000000392064_00261_30375_6438.N1 | 22-DEC-2007 02:02:47 | Dark | 38.500 | 159 | Ups Car | 2.9200 | 7200.0 | 77 | 30375 | No |
| 32 | GOM_TRA_1PNPDE20071222_020417_000000422064_00261_30375_6439.N1 | 22-DEC-2007 02:04:17 | Dark | 41.500 | 71 | Iot Car | 2.2460 | 7700.0 | 83 | 30375 | No |
| 33 | GOM_TRA_1PNPDE20071222_021045_000000452064_00261_30375_6440.N1 | 22-DEC-2007 02:10:45 | Dark | 45.000 | 2 | Alp Car | -0.73600 | 7000.0 | 90 | 30375 | No |
| 34 | GOM_TRA_1PNPDE20071222_021638_000000412064_00261_30375_6441.N1 | 22-DEC-2007 02:16:38 | Straylight | 40.500 | 108 | Alp Col | 2.6520 | 15200. | 81 | 30375 | No |
| 35 | GOM_TRA_1PNPDE20071222_022128_000000442064_00261_30375_6442.N1 | 22-DEC-2007 02:21:28 | Straylight | 43.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 87 | 30375 | No |
| 36 | GOM_TRA_1PNPDE20071222_022426_000000502064_00261_30375_6443.N1 | 22-DEC-2007 02:24:26 | Straylight | 50.000 | 7 | 19Bet Ori | 0.10000 | 14000. | 100 | 30375 | No |
| 37 | GOM_TRA_1PNPDE20071222_022631_000000452064_00261_30375_6444.N1 | 22-DEC-2007 02:26:31 | Straylight | 45.000 | 30 | 46Eps Ori | 1.6940 | 30000. | 90 | 30375 | No |
| 38 | GOM_TRA_1PNPDE20071222_022848_000000452064_00261_30375_6445.N1 | 22-DEC-2007 02:28:48 | Twi_and_stray | 45.000 | 27 | 24Gam Ori | 1.6360 | 26000. | 90 | 30375 | No |
| 39 | GOM_TRA_1PNPDE20071222_023140_000000462064_00261_30375_6446.N1 | 22-DEC-2007 02:31:40 | Twi_and_stray | 45.500 | 13 | 87Alp Tau | 0.86700 | 3800.0 | 91 | 30375 | No |
| 40 | GOM_TRA_1PNPDE20071222_023533_000000412064_00261_30375_6447.N1 | 22-DEC-2007 02:35:33 | Bright | 40.500 | 28 | 12Bet Tau | 1.6500 | 15200. | 81 | 30375 | No |
| 41 | GOM_TRA_1PNPDE20071222_023822_000000352064_00261_30375_6448.N1 | 22-DEC-2007 02:38:22 | Bright | 34.500 | 149 | 45Eps Per | 2.8880 | 30000. | 69 | 30375 | No |
| 42 | GOM_TRA_1PNPDE20071222_024036_000000342064_00261_30375_6449.N1 | 22-DEC-2007 02:40:36 | Bright | 34.000 | 175 | 39Del Per | 3.0100 | 19400. | 68 | 30375 | No |
| 43 | GOM_TRA_1PNPDE20071222_025214_000000332064_00261_30375_6450.N1 | 22-DEC-2007 02:52:14 | Bright | 32.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 65 | 30375 | No |
| 44 | GOM_TRA_1PNPDE20071222_025653_000000372064_00261_30375_6606.N1 | 22-DEC-2007 02:56:53 | Bright | 37.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 74 | 30375 | No |
| 45 | GOM_TRA_1PNPDE20071222_030021_000000342064_00261_30375_6607.N1 | 22-DEC-2007 03:00:21 | Bright | 34.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 68 | 30375 | No |
| 46 | GOM_TRA_1PNPDE20071222_030736_000000382064_00261_30375_6608.N1 | 22-DEC-2007 03:07:36 | Bright | 37.500 | 180 | 27Gam Boo | 3.0400 | 8000.0 | 75 | 30375 | No |
| 47 | GOM_TRA_1PNPDE20071222_031056_000000382064_00261_30375_6609.N1 | 22-DEC-2007 03:10:56 | Bright | 38.000 | 83 | | 2.3780 | 11000. | 76 | 30375 | No |
| 48 | GOM_TRA_1PNPDE20071222_032050_000000522064_00261_30375_6610.N1 | 22-DEC-2007 03:20:50 | Bright | 52.000 | 104 | 27Bet Lib | 2.6140 | 13100. | 104 | 30375 | No |
| 49 | GOM_TRA_1PNPDE20071222_032946_000000412064_00261_30375_6611.N1 | 22-DEC-2007 03:29:46 | Dark | 40.500 | 54 | 5The Cen | 2.0550 | 4500.0 | 81 | 30375 | No |

## 3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data





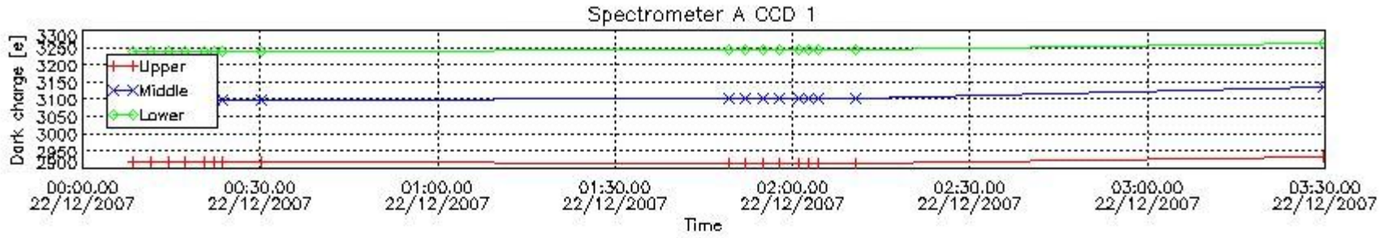


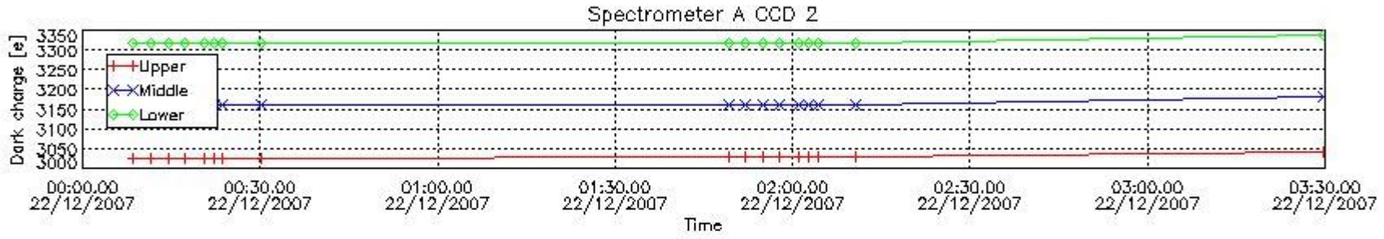
## 4. Overview of dark signal processing per product

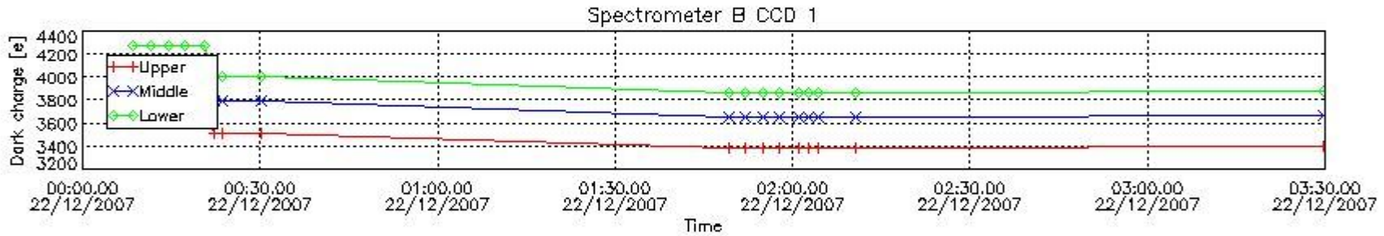
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given.
It is also provided the mean DC plot per product for dark limb products with no error flag set.

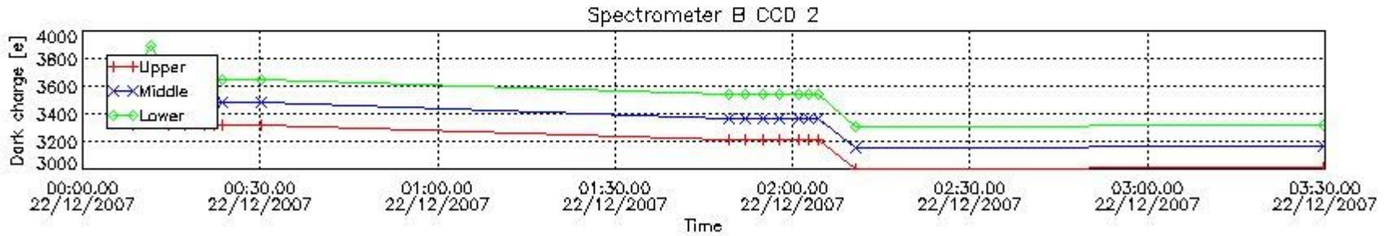
### *4.1 All products used the DSA observation for the DC computation*

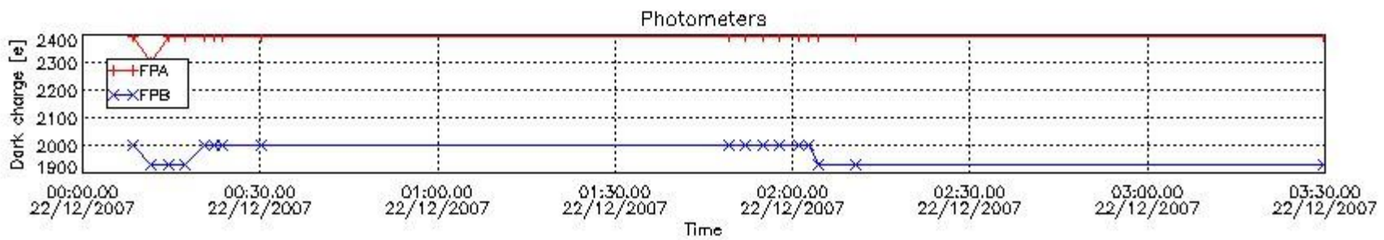
### *4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used*



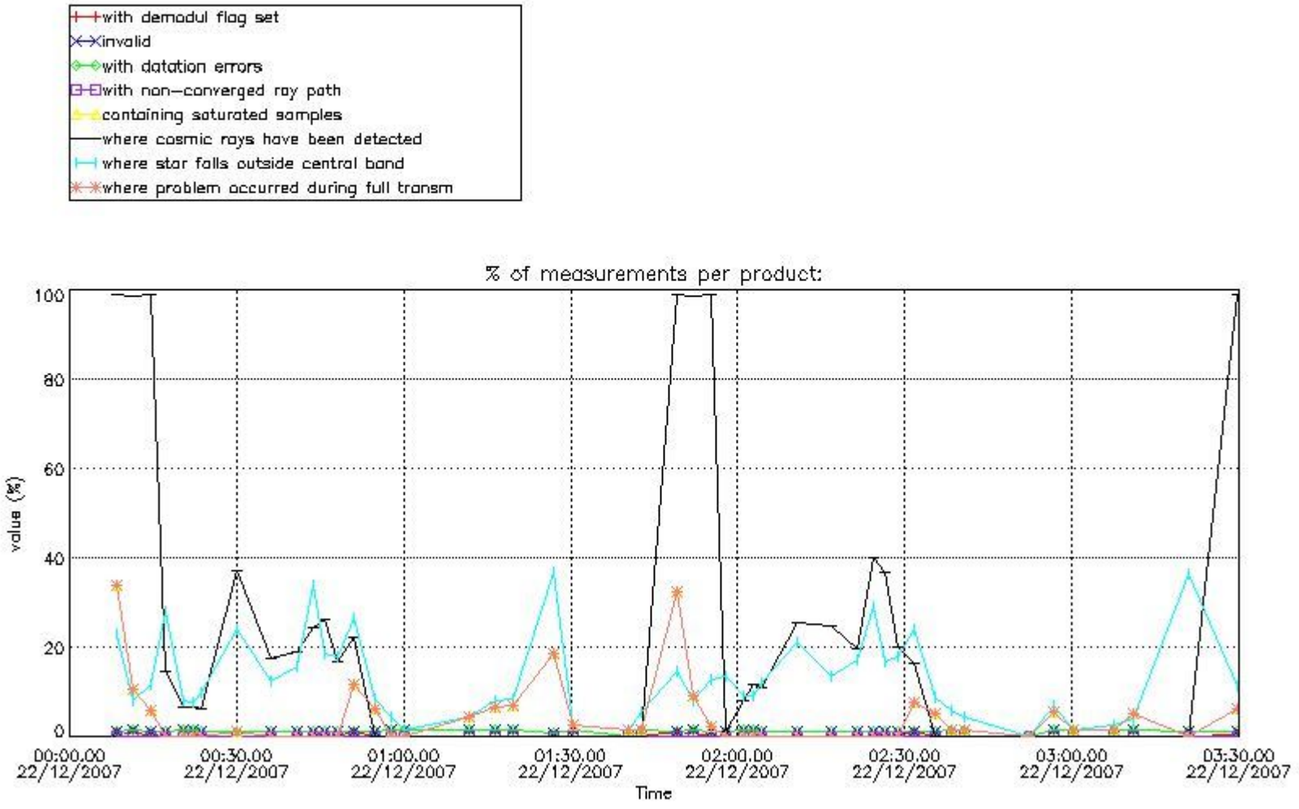

## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

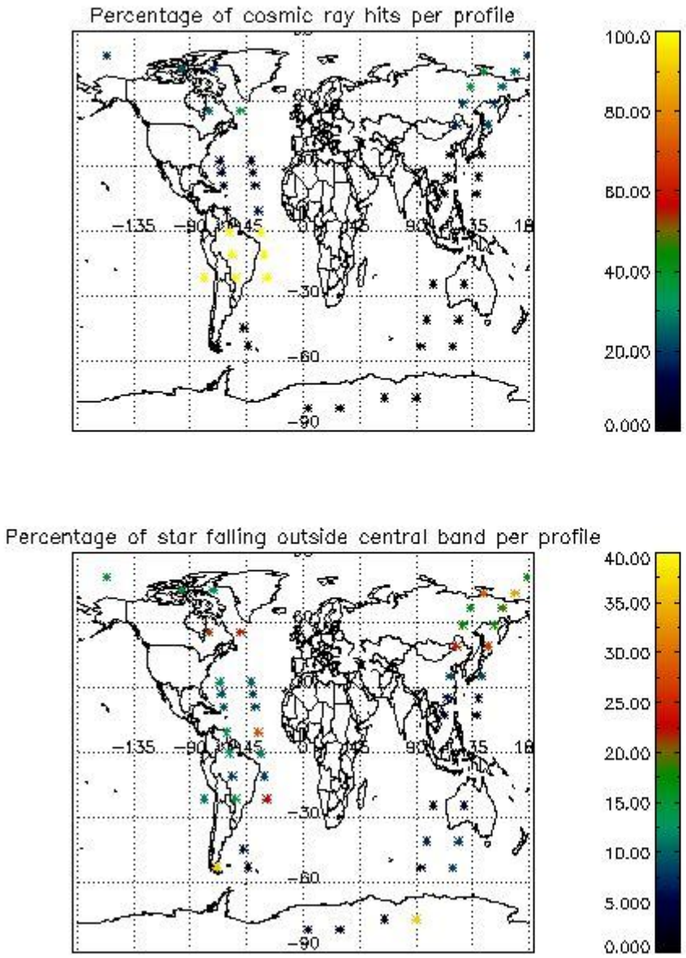
### *5.1 Percentage of products during reporting period with:*

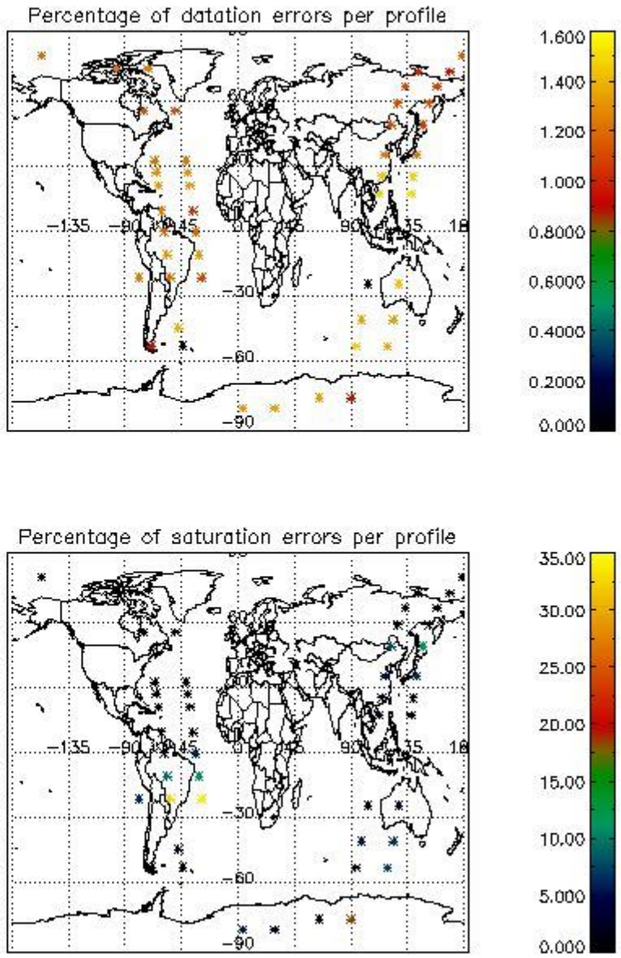
| | |
|---|---|
| At least one measurement with demodulation flag set: | 31.2500 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

## *5.2 Plot quality information per product (time dependant)*




## *5.3 Plot quality information per product (world map)*









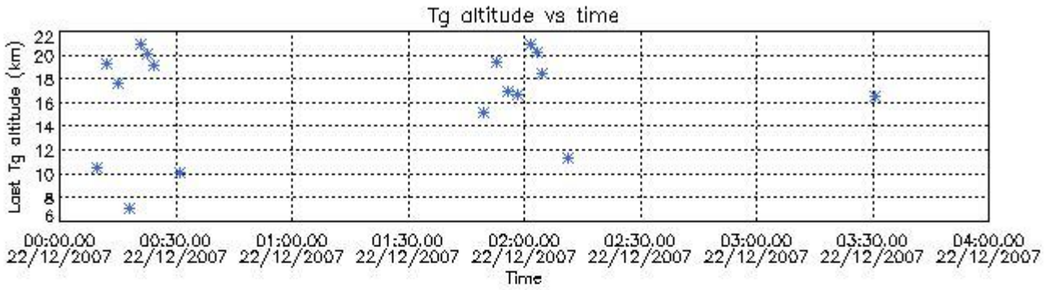

## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

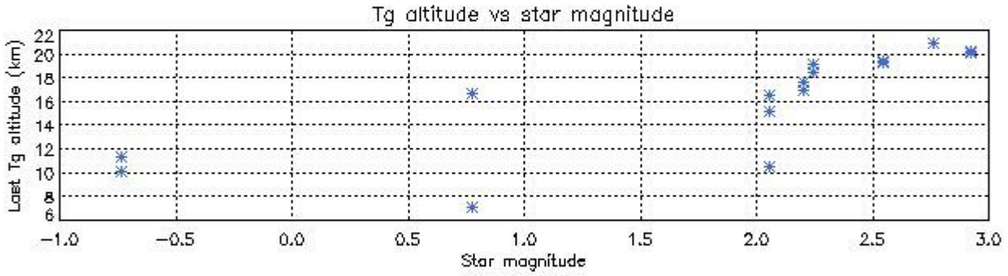
### *6.1 Statistics on tangent altitude lost:*

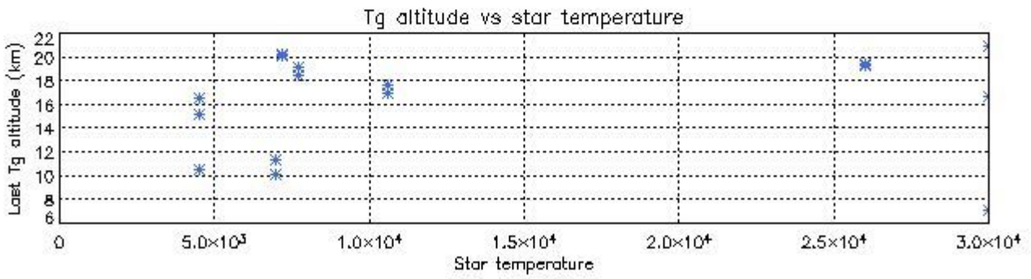
| Statistics | DARK | BRIGHT | TWILIGHT |
|---|---|---|---|
| Mean: | 16.497 | 20.515 | NaN |
| St. deviation: | 4.2306 | 6.4322 | NaN |
| Maximum: | 20.953 | 28.753 | NaN |
| Minimum: | 7.1055 | 3.9334 | NaN |
| Number of data: | 17.000 | 19.000 | NaN |

### *6.2 Plot for DARK limb products*

Tangent altitude at which the star is lost

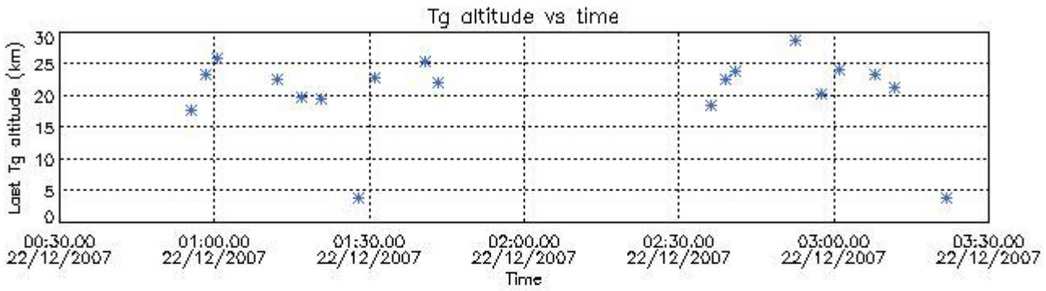


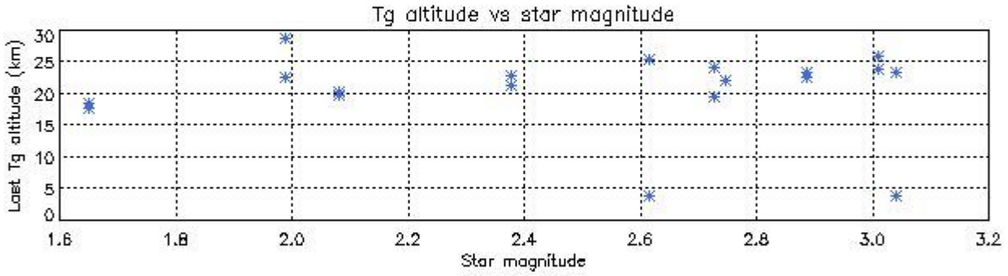



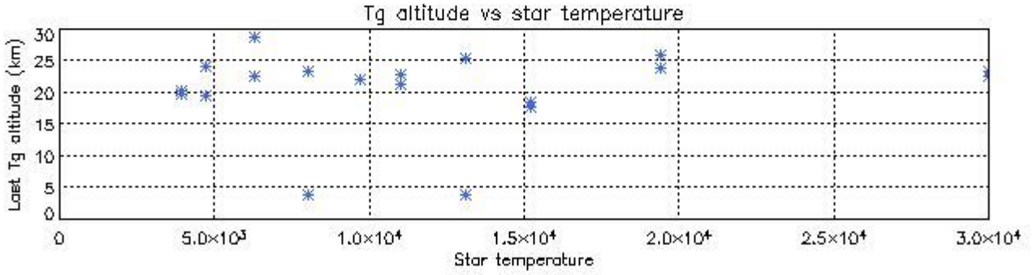




*6.3 Plot for BRIGHT limb products*

Tangent altitude at which the star is lost



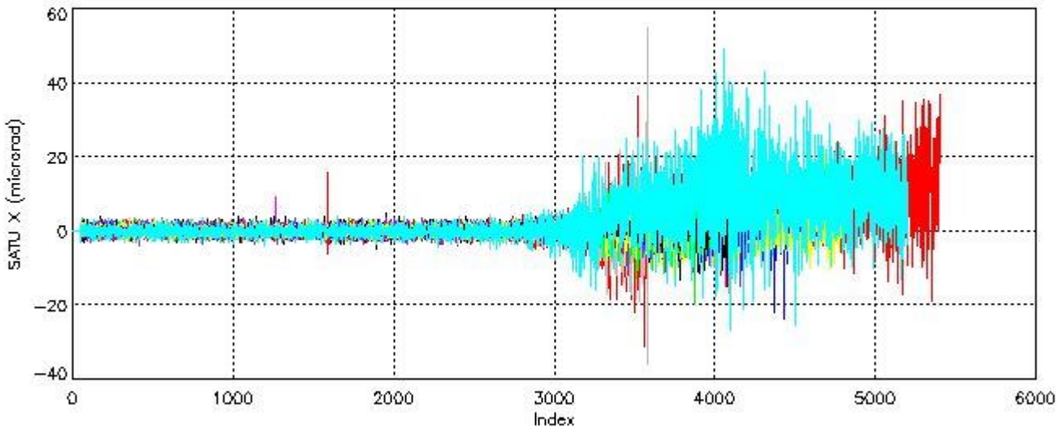



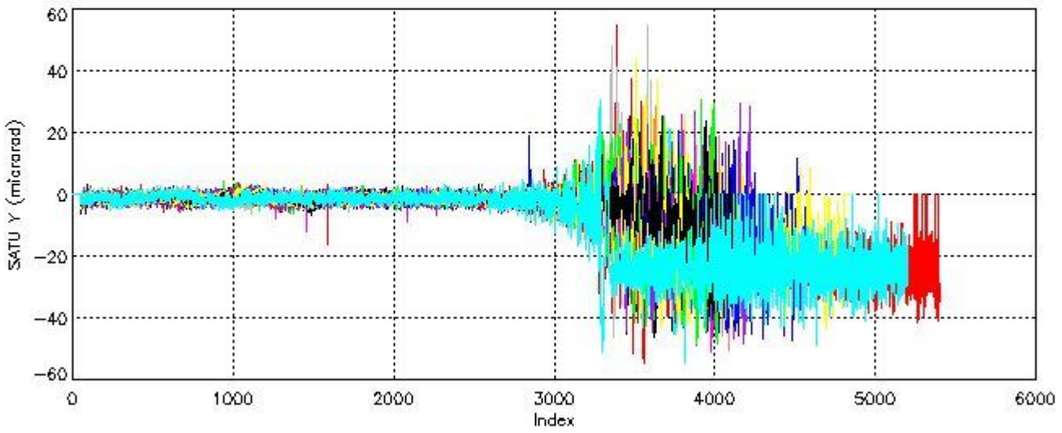

## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main functin of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frecuency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.




## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

| Statistics | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|---|---|---|---|---|
| Mean: | 0.084471 | -1.3331 | 0.037257 | -1.2612 |
| St. deviation: | 0.61056 | 0.88602 | 0.96467 | 1.2840 |
| Maximum: | 3.9000 | 3.4000 | 5.6000 | 4.8000 |
| Minimum: | -4.1000 | -6.4000 | -6.4000 | -9.4000 |

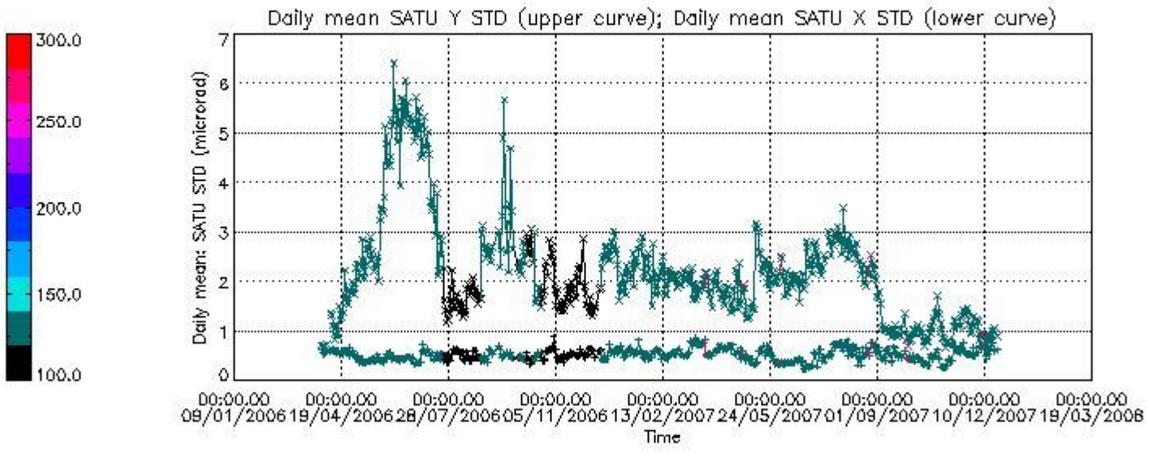
| | | | | |
|---|---|---|---|---|
| Number of data: | 15550. | 15550. | 15950. | 15950. |

### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

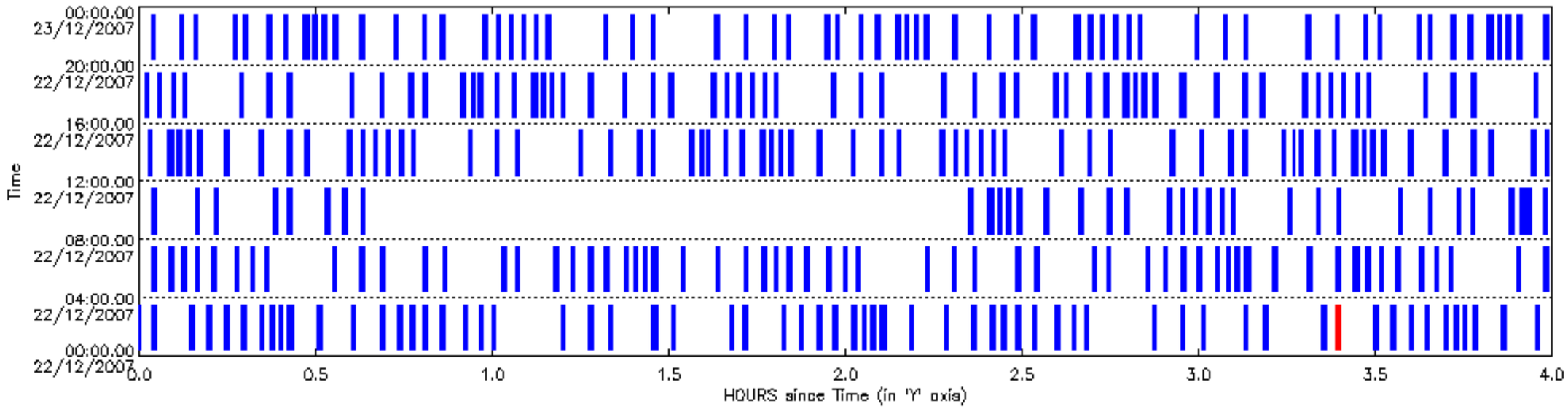
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

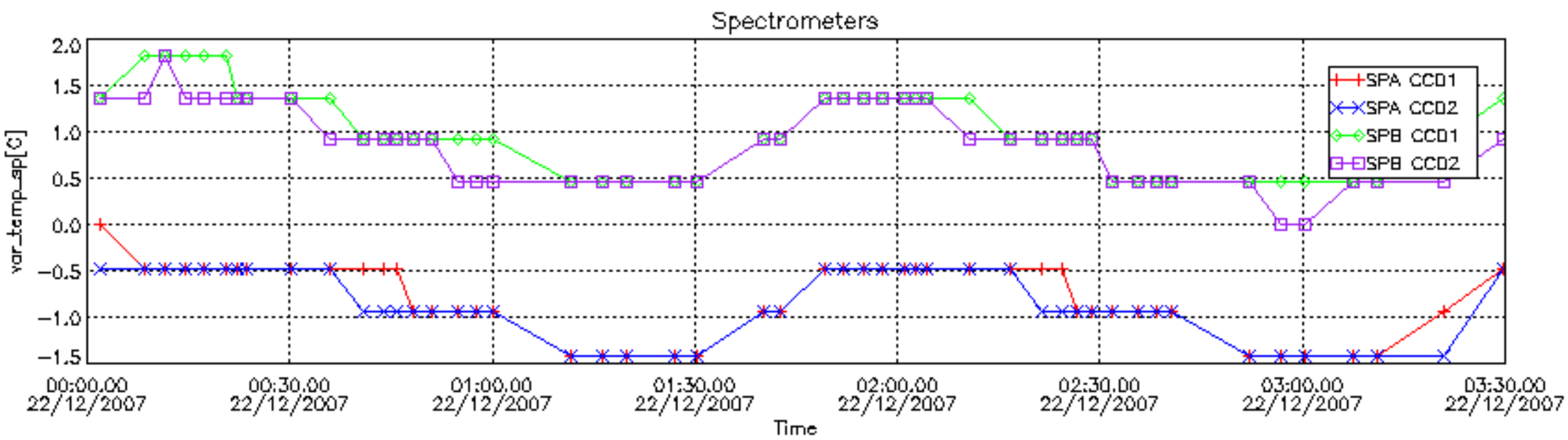


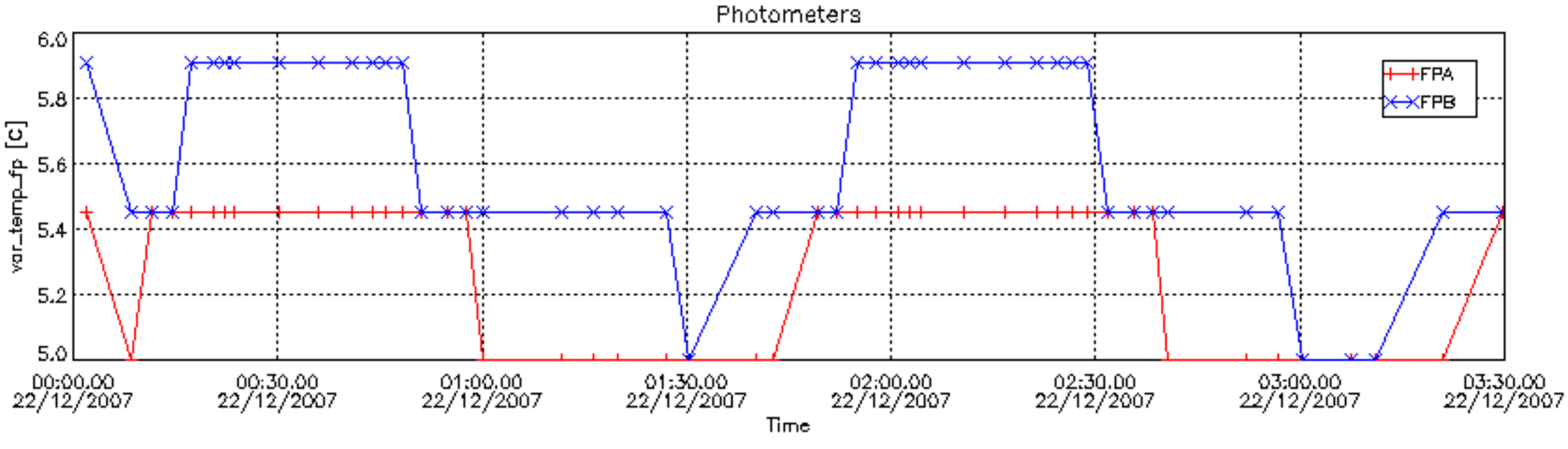

## 8. Auxiliary Data Files used for the production reported in section 2.4

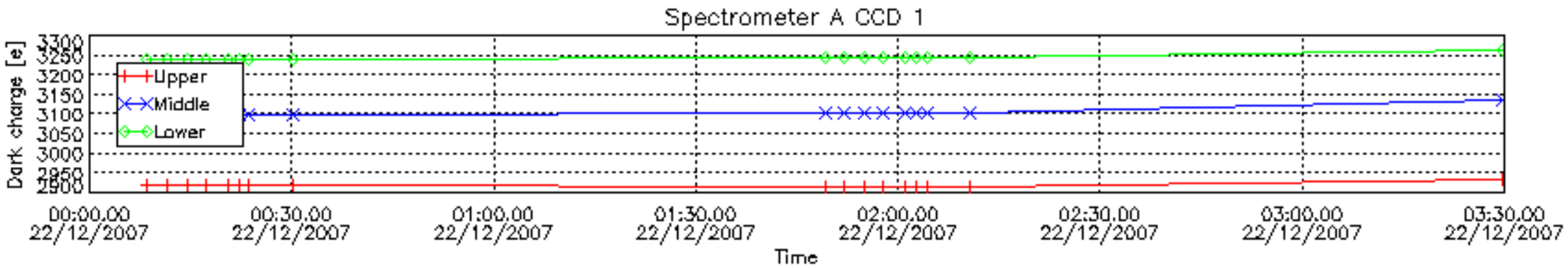
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

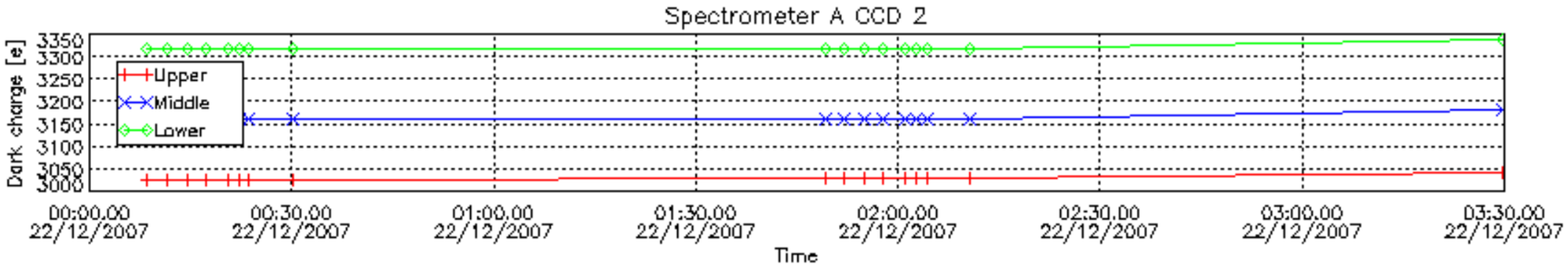
| Type | Auxiliary Filename | Used since product | Used since product date |
|---|---|---|---|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 22-DEC-2007 00:01:59 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000 | 1 | 22-DEC-2007 00:01:59 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 22-DEC-2007 00:01:59 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 22-DEC-2007 00:01:59 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 22-DEC-2007 00:01:59 |
| ECMWF_FILE | AUX_ECF_AXNECM20071221_153321_20071221_210000_20071222_090000 | 1 | 22-DEC-2007 00:01:59 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 22-DEC-2007 00:01:59 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20071221_221921_000057382064_00258_30372_4796.N1 | 1 | 22-DEC-2007 00:01:59 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20071222_000018_000057382064_00259_30373_4797.N1 | 25 | 22-DEC-2007 01:42:36 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20071222_013556_000041442064_00260_30374_4798.N1 | 44 | 22-DEC-2007 02:56:53 |

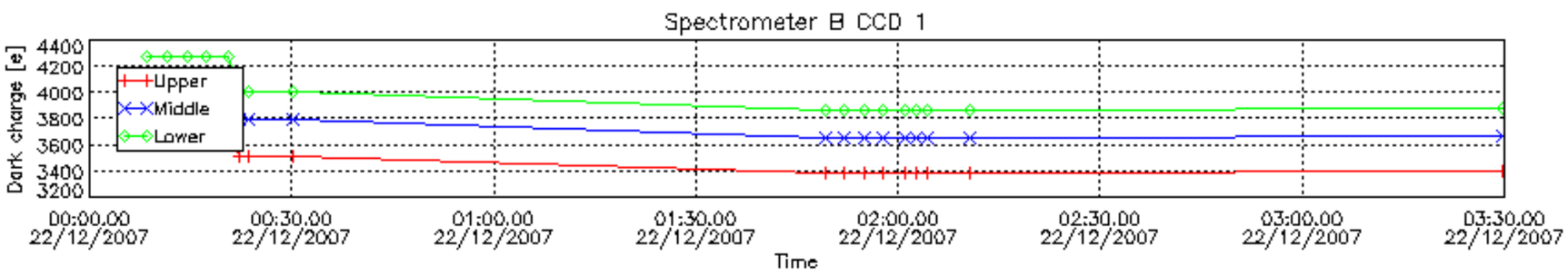

00:00.00
23/12/2007
20:00.00
22/12/2007
16:00.00
22/12/2007
12:00.00
22/12/2007
08:00.00
22/12/2007
04:00.00
22/12/2007
00:00.00
22/12/2007
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

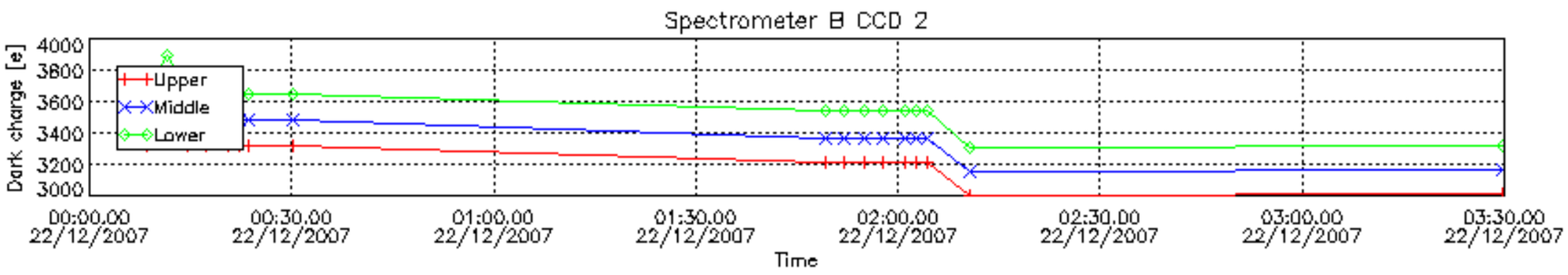

Spectrometers
var_temp_sp[C]
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
22/12/2007
00:30.00
22/12/2007
01:00.00
22/12/2007
01:30.00
22/12/2007
02:00.00
22/12/2007
02:30.00
22/12/2007
03:00.00
22/12/2007
03:30.00
22/12/2007
Time

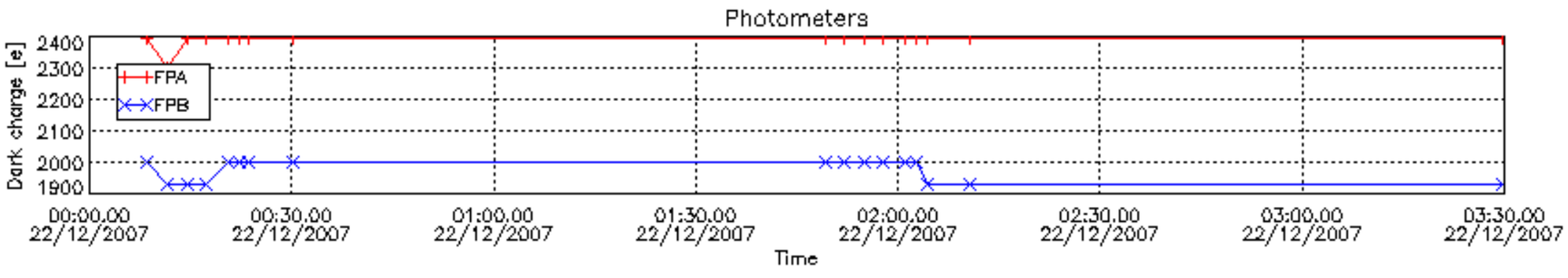

Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
FPA
FPB
00:00.00
22/12/2007
00:30.00
22/12/2007
01:00.00
22/12/2007
01:30.00
22/12/2007
02:00.00
22/12/2007
02:30.00
22/12/2007
03:00.00
22/12/2007
03:30.00
22/12/2007
Time

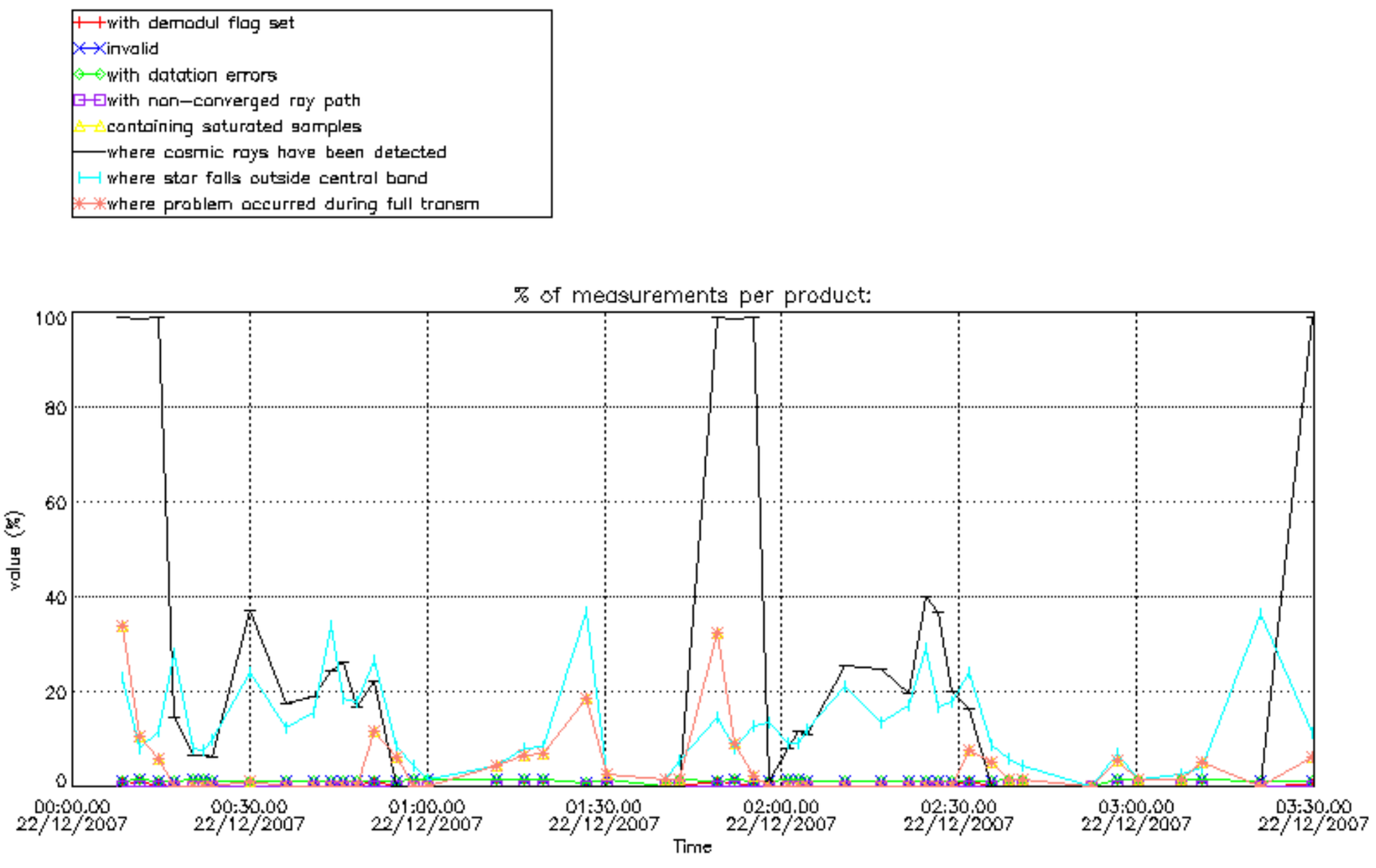

Spectrometer A CCD 1
Dark charge [e]
3300
3250
3200
3150
3100
3050
3000
2950
2900
Upper
Middle
Lower
00:00.00 22/12/2007
00:30.00 22/12/2007
01:00.00 22/12/2007
01:30.00 22/12/2007
02:00.00 22/12/2007
02:30.00 22/12/2007
03:00.00 22/12/2007
03:30.00 22/12/2007
Time

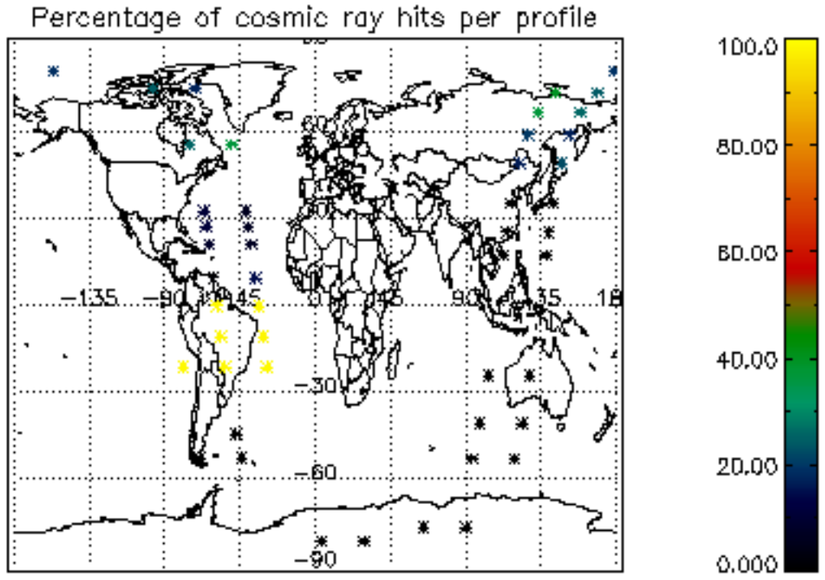

Spectrometer A CCD 2
Dark charge [e]
3350
3300
3250
3200
3150
3100
3050
3000
Upper
Middle
Lower
00:00.00 22/12/2007
00:30.00 22/12/2007
01:00.00 22/12/2007
01:30.00 22/12/2007
02:00.00 22/12/2007
02:30.00 22/12/2007
03:00.00 22/12/2007
03:30.00 22/12/2007
Time

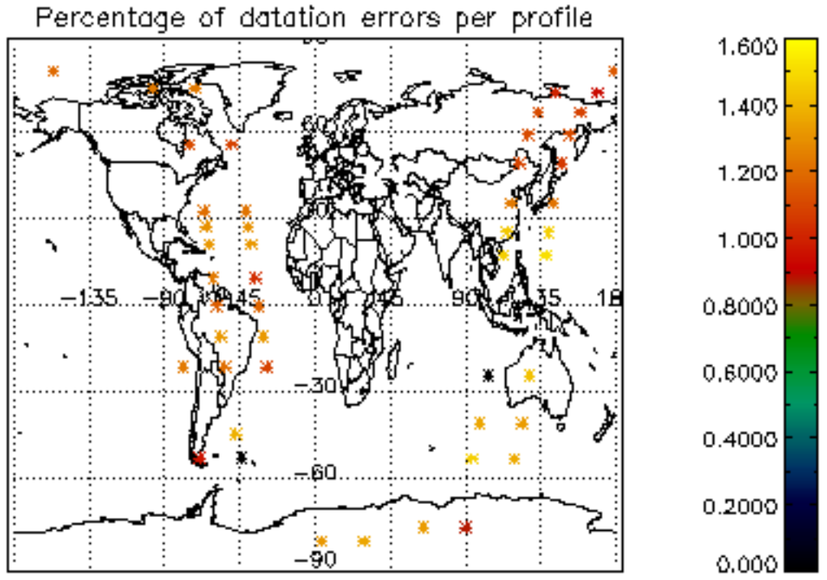

Spectrometer B CCD 1
Dark charge [e]
4400
4200
4000
3800
3600
3400
3200
Upper
Middle
Lower
00:00.00 22/12/2007
00:30.00 22/12/2007
01:00.00 22/12/2007
01:30.00 22/12/2007
02:00.00 22/12/2007
02:30.00 22/12/2007
03:00.00 22/12/2007
03:30.00 22/12/2007
Time

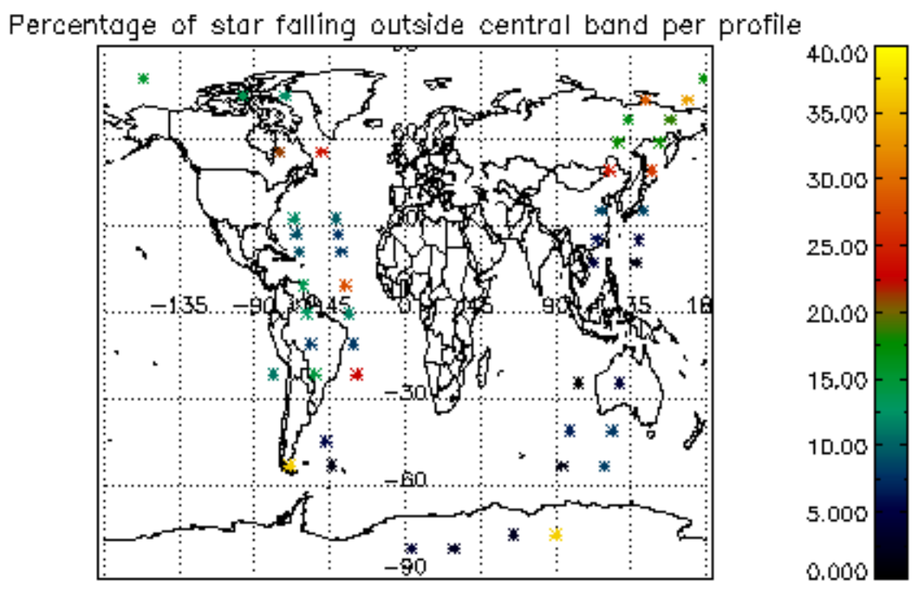

Spectrometer B CCD 2
Dark charge [e]
4000
3800
3600
3400
3200
3000
Upper
Middle
Lower
00:00.00 22/12/2007
00:30.00 22/12/2007
01:00.00 22/12/2007
01:30.00 22/12/2007
02:00.00 22/12/2007
02:30.00 22/12/2007
03:00.00 22/12/2007
03:30.00 22/12/2007
Time

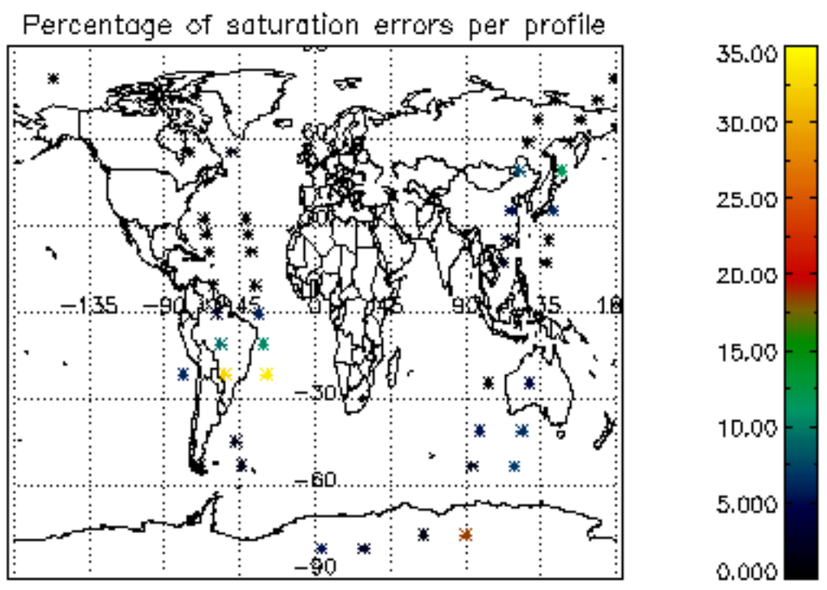

Photometers
Dark charge [e]
2400
2300
2200
2100
2000
1900
FPA
FPB
00:00.00 22/12/2007
00:30.00 22/12/2007
01:00.00 22/12/2007
01:30.00 22/12/2007
02:00.00 22/12/2007
02:30.00 22/12/2007
03:00.00 22/12/2007
03:30.00 22/12/2007
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00 22/12/2007
00:30.00 22/12/2007
01:00.00 22/12/2007
01:30.00 22/12/2007
02:00.00 22/12/2007
02:30.00 22/12/2007
03:00.00 22/12/2007
03:30.00 22/12/2007
Time

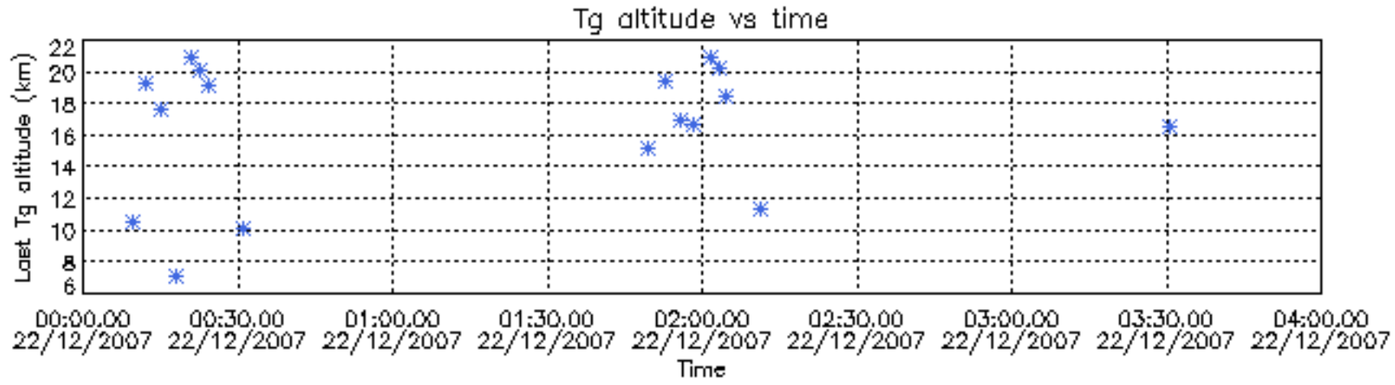

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

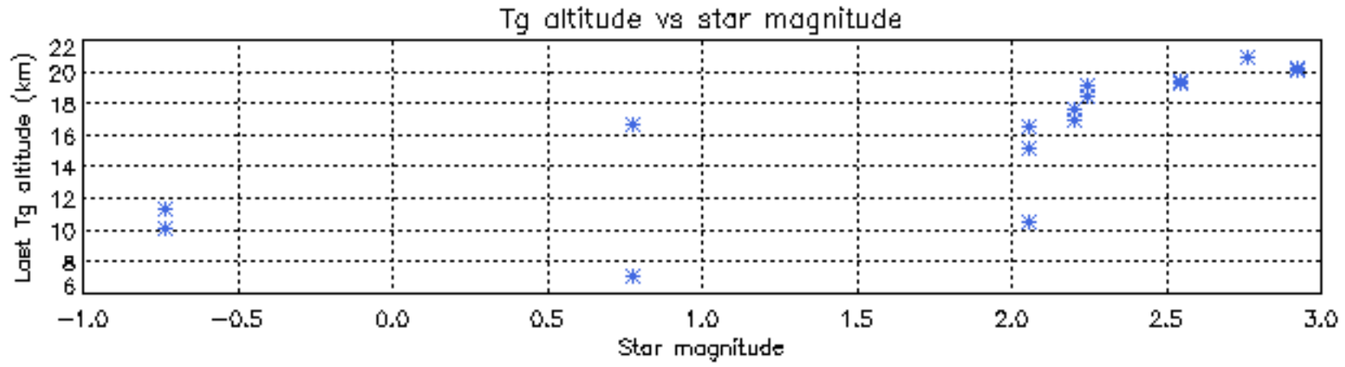

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

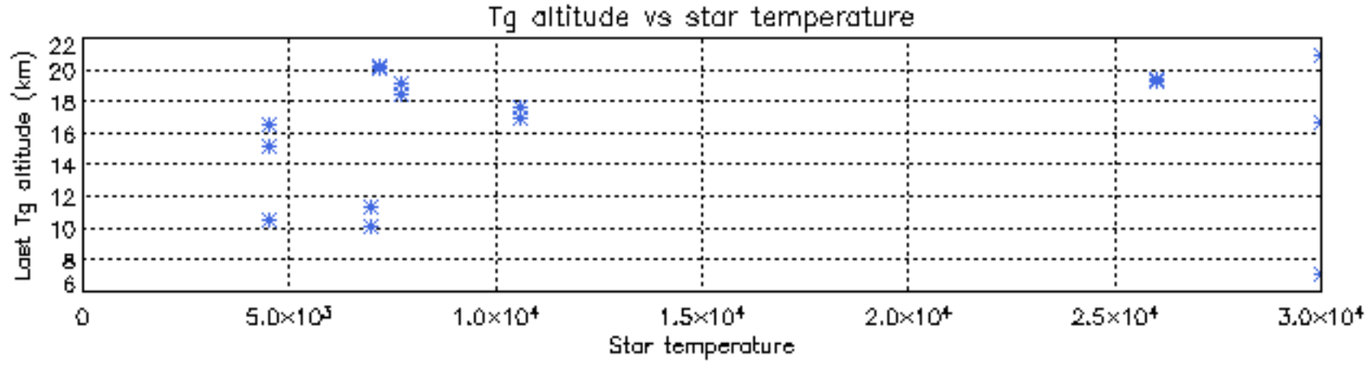

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

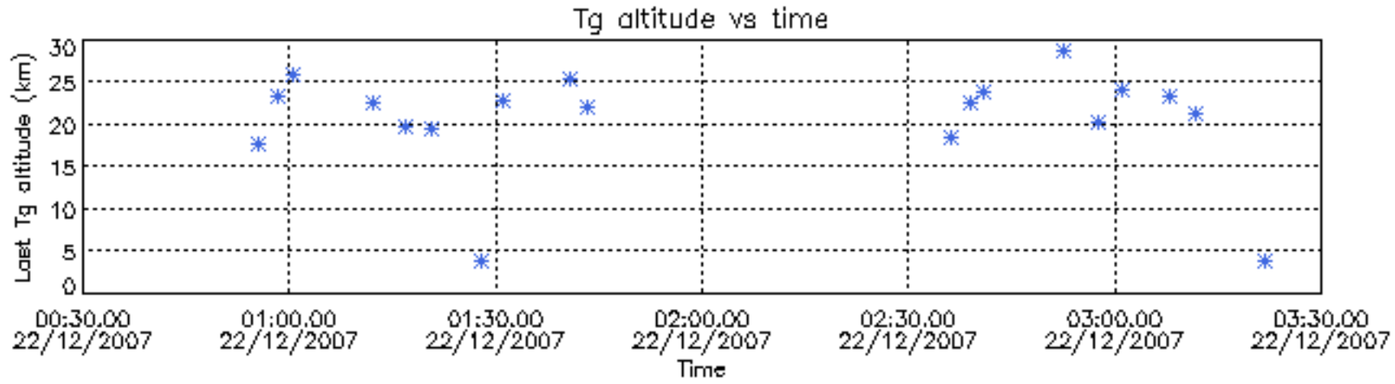
Tangent altitude at which the star is lost

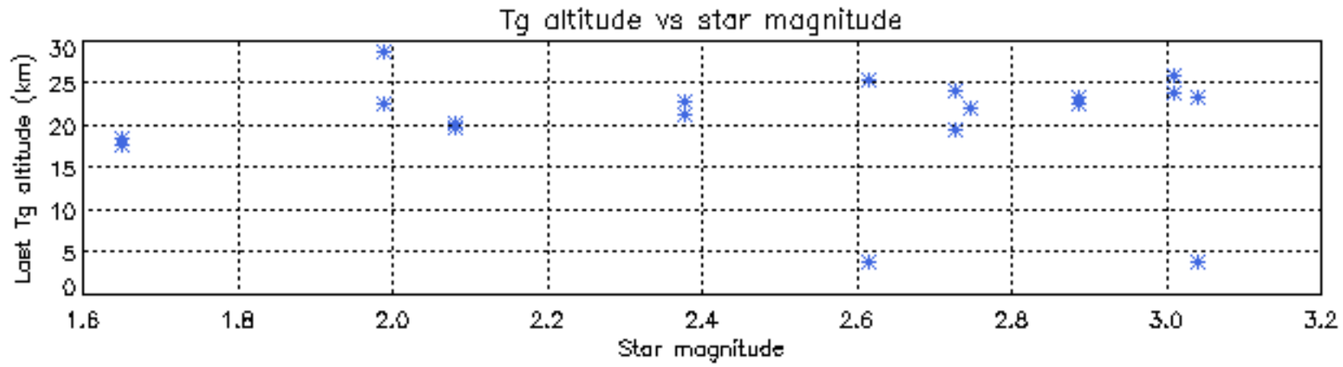


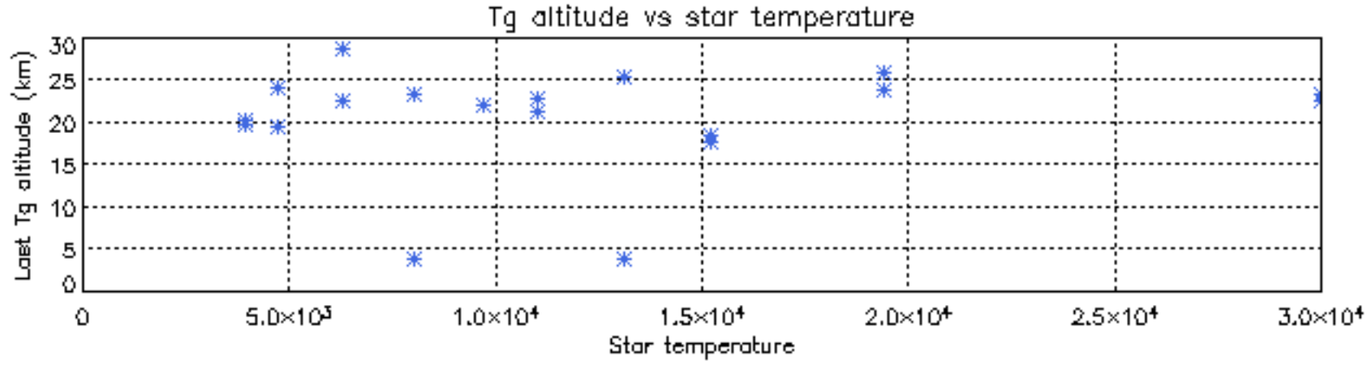



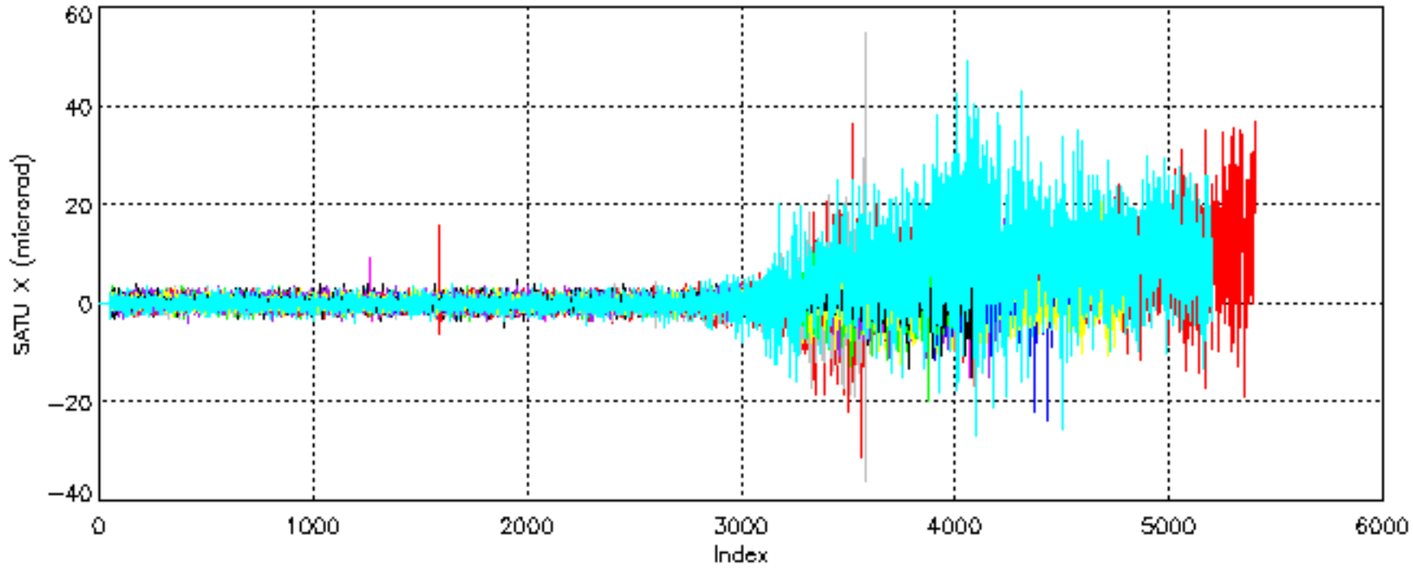



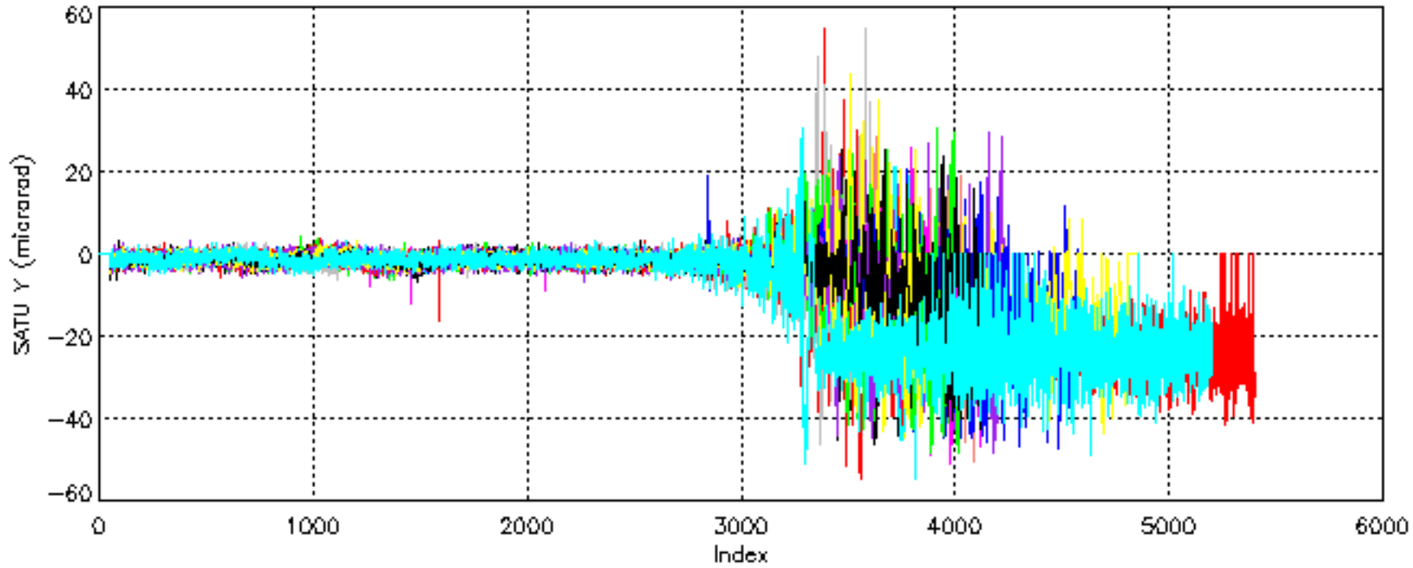
Tangent altitude at which the star is lost

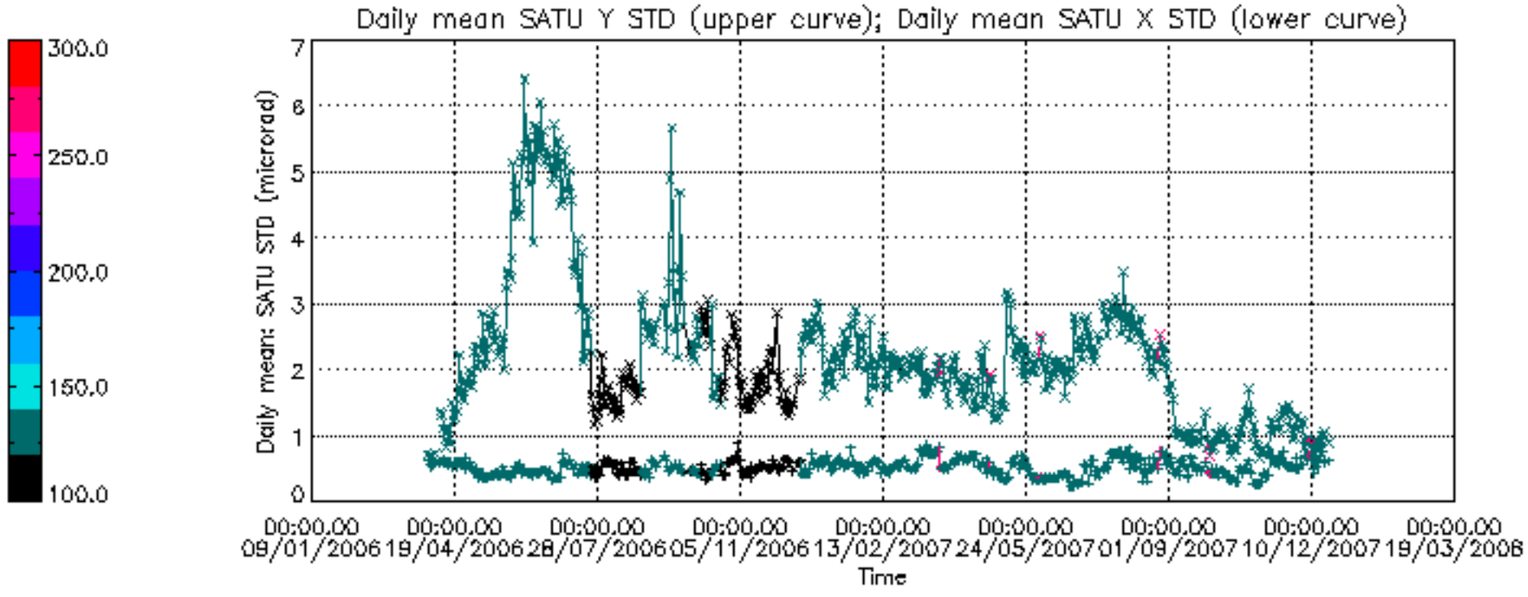



60
40
20
0
−20
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
Index


300.0
250.0
200.0
150.0
100.0
Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
Daily mean SATU STD (microrad)
0
1
2
3
4
5
6
7
00:00.00 09/01/2006
00:00.00 19/04/2006
00:00.00 28/07/2006
00:00.00 05/11/2006
00:00.00 13/02/2007
00:00.00 24/05/2007
00:00.00 01/09/2007
00:00.00 10/12/2007
00:00.00 19/03/2008
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071201_010104_000042862063_00460_30073_4848.N1
1; -831.4; 01-DEC-2007 01:01:04; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;30073
2; -635.3; 01-DEC-2007 01:04:20; Dark ; 45.5; 163; 7Del Crv ; 2.94; 11000;occ; 91; 0;30073
3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073
4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073
6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
8; 369.6; 01-DEC-2007 01:21:05; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30074
9; 481.6; 01-DEC-2007 01:22:57; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30074
10; 803.9; 01-DEC-2007 01:28:19; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;30074
11; 1658.7; 01-DEC-2007 01:42:34; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;30074
12; 1980.3; 01-DEC-2007 01:47:56; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;30074
13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071201_021637_000060412063_00461_30074_4849.N1
1;-2334.4; 01-DEC-2007 02:16:37; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30074
2;-2020.6; 01-DEC-2007 02:21:51; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;30074
3;-1897.1; 01-DEC-2007 02:23:54; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30074
4;-1723.4; 01-DEC-2007 02:26:48; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;30074
5;-1391.6; 01-DEC-2007 02:32:20; Bright; 34.0; 3; 16Alp Boo ;-0.05; 4250;occ; 68; 0;30074
6;-1178.1; 01-DEC-2007 02:35:53; Bright; 39.5; 138; 47Eps Vir ; 2.83; 4700;occ; 79; 0;30074
7; -830.9; 01-DEC-2007 02:41:40; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;30074
8; -634.5; 01-DEC-2007 02:44:57; Dark ; 43.5; 163; 7Del Crv ; 2.94; 11000;occ; 87; 0;30074
9; -536.8; 01-DEC-2007 02:46:34; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;30074
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13; 83.9; 01-DEC-2007 02:56:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;30075
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17; 805.0; 01-DEC-2007 04:49:32; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;30076
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  23; 2195.1; 13-DEC-2007 03:55:07; Dark  ;  55.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 110;   0;30247
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   9; 2194.0; 13-DEC-2007 20:41:05; Dark  ;  52.5;   13; 87Alp Tau  ; 0.87;  3800;occ; 105;   0;30257
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  13; 2719.9; 13-DEC-2007 20:49:51; Bright;  35.0;  175; 39Del Per  ; 3.01; 19400;occ;  70;   0;30257
  14; 2821.7; 13-DEC-2007 20:51:33; Bright;  35.5;  160; 23Gam Per  ; 2.93;  4700;occ;  71;   0;30257
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  19; 4334.5; 13-DEC-2007 21:16:45; Bright;  54.0;  180; 27Gam Boo  ; 3.04;  8000;occ; 108;   0;30257

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   7;   35.5; 13-DEC-2007 21:45:42; Dark  ;  44.0;   20;   Bet Cru  ; 1.25; 30000;occ;  88;   0;30258
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  18; 2319.4; 13-DEC-2007 22:23:46; Bright;  35.0;  146; 25Eta Tau  ; 2.87; 15200;occ;  70;   0;30258
  19; 2450.7; 13-DEC-2007 22:25:58; Bright;  36.5;  150; 44Zet Per  ; 2.89; 28000;occ;  73;   0;30258
  20; 2589.5; 13-DEC-2007 22:28:16; Bright;  34.0;  149; 45Eps Per  ; 2.89; 30000;occ;  68;   0;30258
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  25; 3990.3; 13-DEC-2007 22:51:37; Bright;  42.0;   32; 77Eps UMa  ; 1.76; 11000;occ;  84;   0;30258
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   8; 2194.9; 13-DEC-2007 19:00:30; Dark  ;  55.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 110;   0;30256
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  29; 6433.3; 13-DEC-2007 20:11:08; Dark  ;  37.5;  159;   Ups Car  ; 2.92;  7200;occ;  75;   0;30256
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  27; 4336.0; 15-DEC-2007 00:06:22; Bright;  36.0;  180; 27Gam Boo  ; 3.04;  8000;occ;  72;   0;30273
  28; 4527.0; 15-DEC-2007 00:09:33; Bright;  36.0;   83;            ; 2.38; 11000;occ;  72;   0;30273
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  25; 7301.6; 16-DEC-2007 08:47:10; Dark  ;  40.5;  108;   Alp Col  ; 2.65; 15200;occ;  81;   0;30292
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