

GOMOS Daily Report 22-JUL-2008

Level 0 and Level 1 products

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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 | 24JUL2008 05:32:16 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (22JUL2008 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (23JUL2008 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 48 |
| Nb of prods with errors | 1 |

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

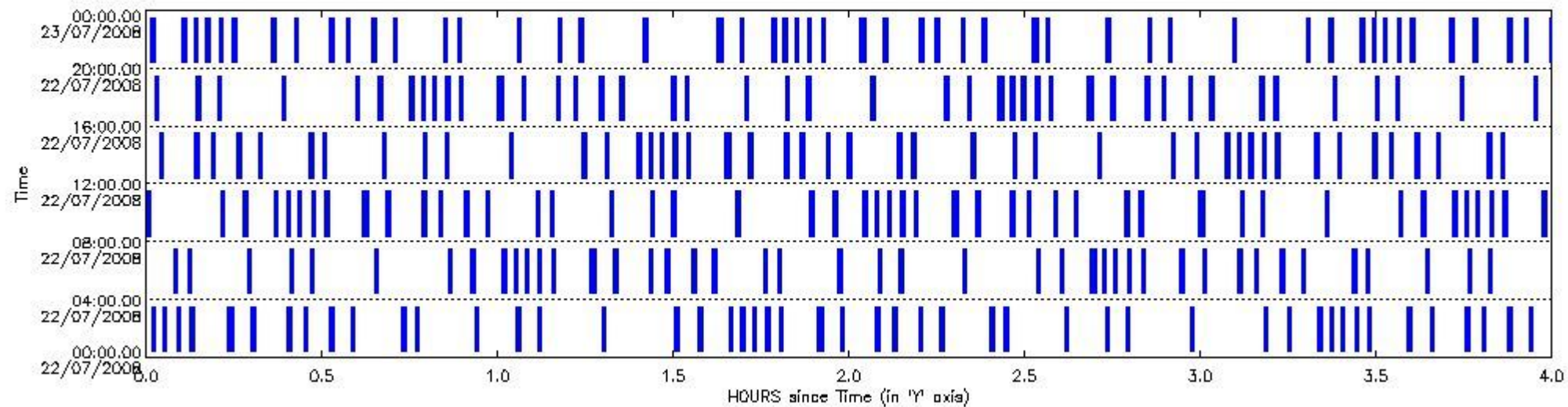
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

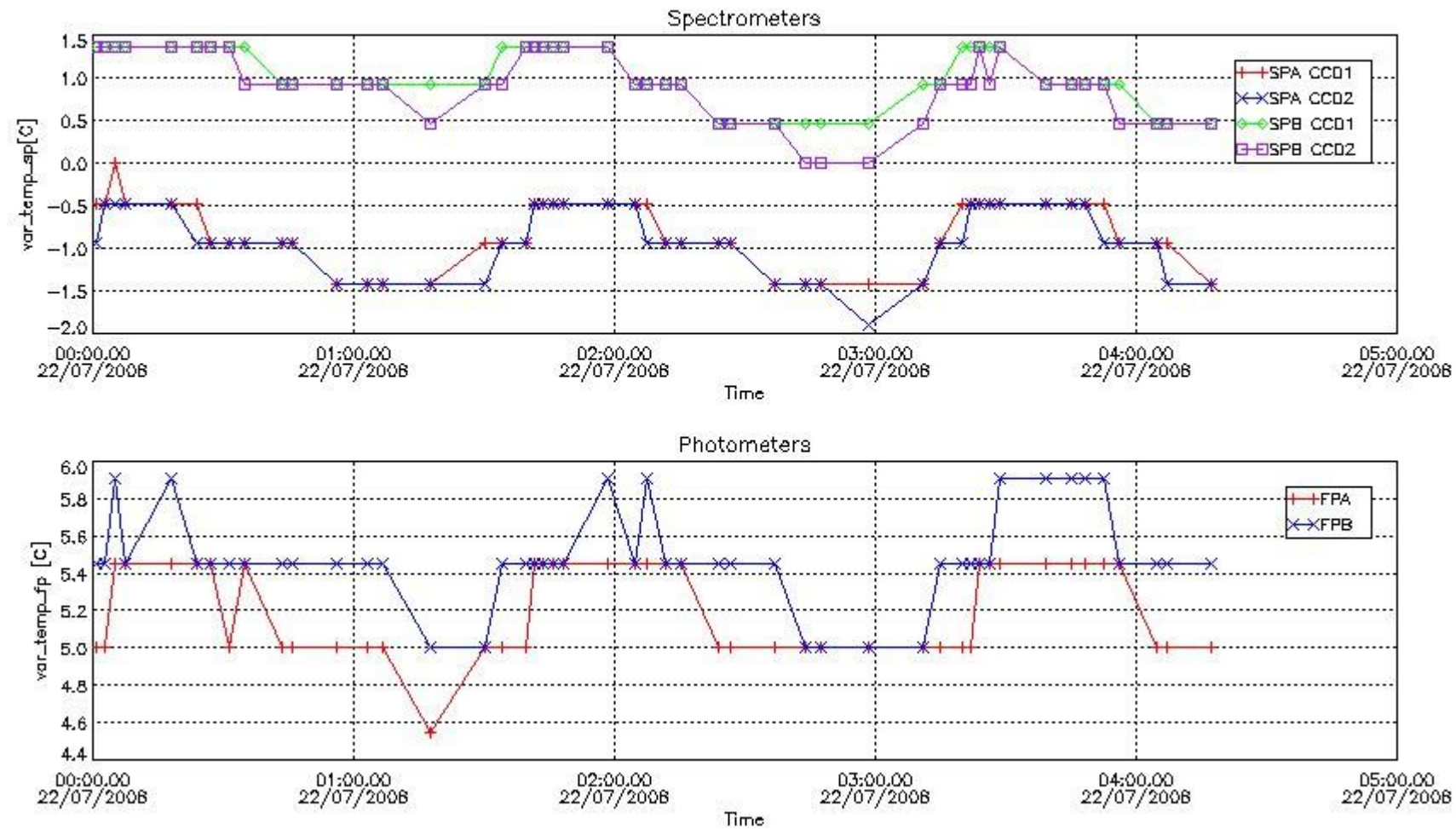
No missing products.

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_1PNPDE20080722_000056_000000362070_00302_33422_4784.N1 | 22-JUL-2008 00:00:56 | Dark | 36.000 | 27 | 24Gam Ori | 1.6360 | 26000. | 72 | 33422 | No |
| 2 | GOM_TRA_1PNPDE20080722_000252_000000352070_00302_33422_4785.N1 | 22-JUL-2008 00:02:52 | Dark | 35.000 | 30 | 46Eps Ori | 1.6940 | 30000. | 70 | 33422 | No |
| 3 | GOM_TRA_1PNPDE20080722_000508_000000392070_00302_33422_4854.N1 | 22-JUL-2008 00:05:08 | Dark | 39.000 | 7 | 19Bet Ori | 0.10000 | 14000. | 78 | 33422 | Yes |
| 4 | GOM_TRA_1PNPDE20080722_000728_000000392070_00302_33422_4855.N1 | 22-JUL-2008 00:07:28 | Dark | 39.000 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 78 | 33422 | No |
| 5 | GOM_TRA_1PNPDE20080722_001756_000000442070_00302_33422_4856.N1 | 22-JUL-2008 00:17:56 | Dark | 44.000 | 157 | The1Eri | 2.9060 | 9300.0 | 88 | 33422 | No |
| 6 | GOM_TRA_1PNPDE20080722_002355_000000522070_00303_33423_4857.N1 | 22-JUL-2008 00:23:55 | Dark | 51.500 | 9 | Alp Eri | 0.45300 | 24000. | 103 | 33423 | No |
| 7 | GOM_TRA_1PNPDE20080722_002652_000000382070_00303_33423_4858.N1 | 22-JUL-2008 00:26:52 | Dark | 37.500 | 135 | Bet Hyi | 2.8200 | 5800.0 | 75 | 33423 | No |
| 8 | GOM_TRA_1PNPDE20080722_003115_000000412070_00303_33423_4859.N1 | 22-JUL-2008 00:31:15 | Straylight | 41.000 | 148 | Alp Tuc | 2.8780 | 4100.0 | 82 | 33423 | No |
| 9 | GOM_TRA_1PNPDE20080722_003452_000000392070_00303_33423_4860.N1 | 22-JUL-2008 00:34:52 | Straylight | 39.000 | 45 | Alp Pav | 1.9400 | 26000. | 78 | 33423 | No |
| 10 | GOM_TRA_1PNPDE20080722_004330_000000492070_00303_33423_4861.N1 | 22-JUL-2008 00:43:30 | Bright | 48.500 | 103 | 38Zet Sgr | 2.6000 | 9700.0 | 97 | 33423 | No |
| 11 | GOM_TRA_1PNPDE20080722_004556_000000382070_00303_33423_4862.N1 | 22-JUL-2008 00:45:56 | Bright | 38.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 76 | 33423 | No |
| 12 | GOM_TRA_1PNPDE20080722_005609_000000372070_00303_33423_4863.N1 | 22-JUL-2008 00:56:09 | Bright | 36.500 | 168 | 17Zet Aql | 2.9860 | 11000. | 73 | 33423 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|----------|--------|----|-------|----|
| 13 | GOM_TRA_1PNPDE20080722_010312_000000372070_00303_33423_4864.N1 | 22-JUL-2008 01:03:12 | Bright | 37.000 | 5 | 3Alp Lyr | 0.033000 | 11000. | 74 | 33423 | No |
| 14 | GOM_TRA_1PNPDE20080722_010645_000000372070_00303_33423_4865.N1 | 22-JUL-2008 01:06:45 | Bright | 37.000 | 69 | 33Gam Dra | 2.2310 | 3800.0 | 74 | 33423 | No |
| 15 | GOM_TRA_1PNPDE20080722_011745_000000332070_00303_33423_4866.N1 | 22-JUL-2008 01:17:45 | Bright | 32.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 65 | 33423 | No |
| 16 | GOM_TRA_1PNPDE20080722_013017_000000382070_00303_33423_4867.N1 | 22-JUL-2008 01:30:17 | Bright | 37.500 | 6 | 13Alp Aur | 0.080000 | 3400.0 | 75 | 33423 | No |
| 17 | GOM_TRA_1PNPDE20080722_013410_000000462070_00303_33423_4868.N1 | 22-JUL-2008 01:34:10 | Bright | 45.500 | 114 | 3lot Aur | 2.6930 | 4600.0 | 91 | 33423 | No |
| 18 | GOM_TRA_1PNPDE20080722_013925_000000442070_00303_33423_4869.N1 | 22-JUL-2008 01:39:25 | Dark | 43.500 | 13 | 87Alp Tau | 0.86700 | 3800.0 | 87 | 33423 | No |
| 19 | GOM_TRA_1PNPDE20080722_014132_000000352070_00303_33423_4870.N1 | 22-JUL-2008 01:41:32 | Dark | 34.500 | 27 | 24Gam Ori | 1.6360 | 26000. | 69 | 33423 | No |
| 20 | GOM_TRA_1PNPDE20080722_014328_000000362070_00303_33423_4871.N1 | 22-JUL-2008 01:43:28 | Dark | 35.500 | 30 | 46Eps Ori | 1.6940 | 30000. | 71 | 33423 | No |
| 21 | GOM_TRA_1PNPDE20080722_014544_000000442070_00303_33423_4947.N1 | 22-JUL-2008 01:45:44 | Dark | 44.000 | 7 | 19Bet Ori | 0.10000 | 14000. | 88 | 33423 | No |
| 22 | GOM_TRA_1PNPDE20080722_014804_000000372070_00303_33423_4948.N1 | 22-JUL-2008 01:48:04 | Dark | 36.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 73 | 33423 | No |
| 23 | GOM_TRA_1PNPDE20080722_015832_000000422070_00303_33423_4949.N1 | 22-JUL-2008 01:58:32 | Dark | 41.500 | 157 | The1Eri | 2.9060 | 9300.0 | 83 | 33423 | No |
| 24 | GOM_TRA_1PNPDE20080722_020432_000000492070_00304_33424_4950.N1 | 22-JUL-2008 02:04:32 | Dark | 49.000 | 9 | Alp Eri | 0.45300 | 24000. | 98 | 33424 | No |
| 25 | GOM_TRA_1PNPDE20080722_020729_000000392070_00304_33424_4951.N1 | 22-JUL-2008 02:07:29 | Dark | 38.500 | 135 | Bet Hyi | 2.8200 | 5800.0 | 77 | 33424 | No |
| 26 | GOM_TRA_1PNPDE20080722_021152_000000402070_00304_33424_4952.N1 | 22-JUL-2008 02:11:52 | Straylight | 39.500 | 148 | Alp Tuc | 2.8780 | 4100.0 | 79 | 33424 | No |
| 27 | GOM_TRA_1PNPDE20080722_021529_000000412070_00304_33424_4953.N1 | 22-JUL-2008 02:15:29 | Straylight | 41.000 | 45 | Alp Pav | 1.9400 | 26000. | 82 | 33424 | No |
| 28 | GOM_TRA_1PNPDE20080722_022406_000000492070_00304_33424_4954.N1 | 22-JUL-2008 02:24:06 | Bright | 48.500 | 103 | 38Zet Sgr | 2.6000 | 9700.0 | 97 | 33424 | No |
| 29 | GOM_TRA_1PNPDE20080722_022632_000000382070_00304_33424_4955.N1 | 22-JUL-2008 02:26:32 | Bright | 37.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 75 | 33424 | No |
| 30 | GOM_TRA_1PNPDE20080722_023644_000000372070_00304_33424_4956.N1 | 22-JUL-2008 02:36:44 | Bright | 37.000 | 168 | 17Zet Aql | 2.9860 | 11000. | 74 | 33424 | No |
| 31 | GOM_TRA_1PNPDE20080722_024348_000000402070_00304_33424_4957.N1 | 22-JUL-2008 02:43:48 | Bright | 39.500 | 5 | 3Alp Lyr | 0.033000 | 11000. | 79 | 33424 | No |
| 32 | GOM_TRA_1PNPDE20080722_024721_000000382070_00304_33424_4958.N1 | 22-JUL-2008 02:47:21 | Bright | 37.500 | 69 | 33Gam Dra | 2.2310 | 3800.0 | 75 | 33424 | No |
| 33 | GOM_TRA_1PNPDE20080722_025821_000000342070_00304_33424_4959.N1 | 22-JUL-2008 02:58:21 | Bright | 34.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 68 | 33424 | No |
| 34 | GOM_TRA_1PNPDE20080722_031053_000000392070_00304_33424_5115.N1 | 22-JUL-2008 03:10:53 | Bright | 39.000 | 6 | 13Alp Aur | 0.080000 | 3400.0 | 78 | 33424 | No |
| 35 | GOM_TRA_1PNPDE20080722_031446_000000402070_00304_33424_5116.N1 | 22-JUL-2008 03:14:46 | Bright | 39.500 | 114 | 3lot Aur | 2.6930 | 4600.0 | 79 | 33424 | No |
| 36 | GOM_TRA_1PNPDE20080722_032001_000000492070_00304_33424_5117.N1 | 22-JUL-2008 03:20:01 | Dark | 48.500 | 13 | 87Alp Tau | 0.86700 | 3800.0 | 97 | 33424 | No |
| 37 | GOM_TRA_1PNPDE20080722_032208_000000352070_00304_33424_5118.N1 | 22-JUL-2008 03:22:08 | Dark | 35.000 | 27 | 24Gam Ori | 1.6360 | 26000. | 70 | 33424 | No |
| 38 | GOM_TRA_1PNPDE20080722_032404_000000372070_00304_33424_5119.N1 | 22-JUL-2008 03:24:04 | Dark | 37.000 | 30 | 46Eps Ori | 1.6940 | 30000. | 74 | 33424 | No |
| 39 | GOM_TRA_1PNPDE20080722_032620_000000362070_00304_33424_5120.N1 | 22-JUL-2008 03:26:20 | Dark | 36.000 | 7 | 19Bet Ori | 0.10000 | 14000. | 72 | 33424 | No |
| 40 | GOM_TRA_1PNPDE20080722_032841_000000342070_00304_33424_5121.N1 | 22-JUL-2008 03:28:41 | Dark | 33.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 67 | 33424 | No |
| 41 | GOM_TRA_1PNPDE20080722_033909_000000422070_00304_33424_5122.N1 | 22-JUL-2008 03:39:09 | Dark | 42.000 | 157 | The1Eri | 2.9060 | 9300.0 | 84 | 33424 | No |
| 42 | GOM_TRA_1PNPDE20080722_034509_000000452070_00305_33425_5123.N1 | 22-JUL-2008 03:45:09 | Dark | 45.000 | 9 | Alp Eri | 0.45300 | 24000. | 90 | 33425 | No |
| 43 | GOM_TRA_1PNPDE20080722_034805_000000362070_00305_33425_5124.N1 | 22-JUL-2008 03:48:05 | Dark | 36.000 | 135 | Bet Hyi | 2.8200 | 5800.0 | 72 | 33425 | No |
| 44 | GOM_TRA_1PNPDE20080722_035228_000000432070_00305_33425_5125.N1 | 22-JUL-2008 03:52:28 | Straylight | 42.500 | 148 | Alp Tuc | 2.8780 | 4100.0 | 85 | 33425 | No |
| 45 | GOM_TRA_1PNPDE20080722_035605_000000412070_00305_33425_5126.N1 | 22-JUL-2008 03:56:05 | Straylight | 40.500 | 45 | Alp Pav | 1.9400 | 26000. | 81 | 33425 | No |
| 46 | GOM_TRA_1PNPDE20080722_040442_000000372070_00305_33425_5127.N1 | 22-JUL-2008 04:04:42 | Bright | 36.500 | 103 | 38Zet Sgr | 2.6000 | 9700.0 | 73 | 33425 | No |
| 47 | GOM_TRA_1PNPDE20080722_040708_000000372070_00305_33425_5128.N1 | 22-JUL-2008 04:07:08 | Bright | 37.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 74 | 33425 | No |
| 48 | GOM_TRA_1PNPDE20080722_041721_000000372070_00305_33425_5129.N1 | 22-JUL-2008 04:17:21 | Bright | 36.500 | 168 | 17Zet Aql | 2.9860 | 11000. | 73 | 33425 | No |

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



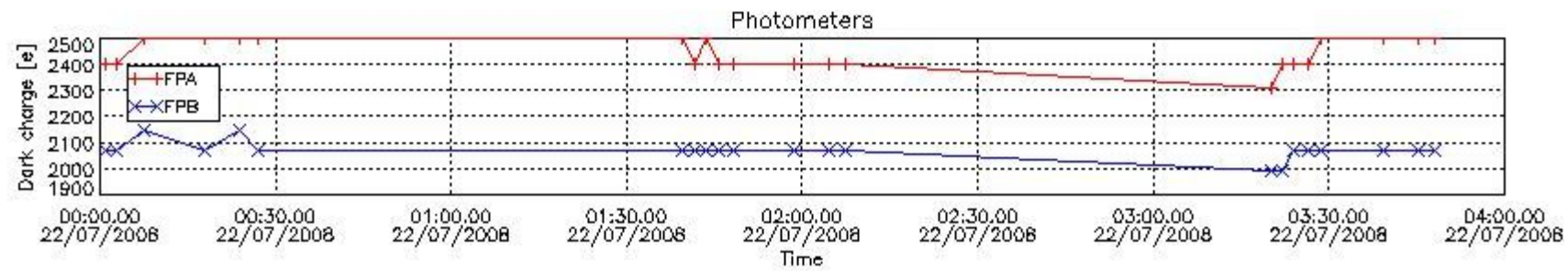
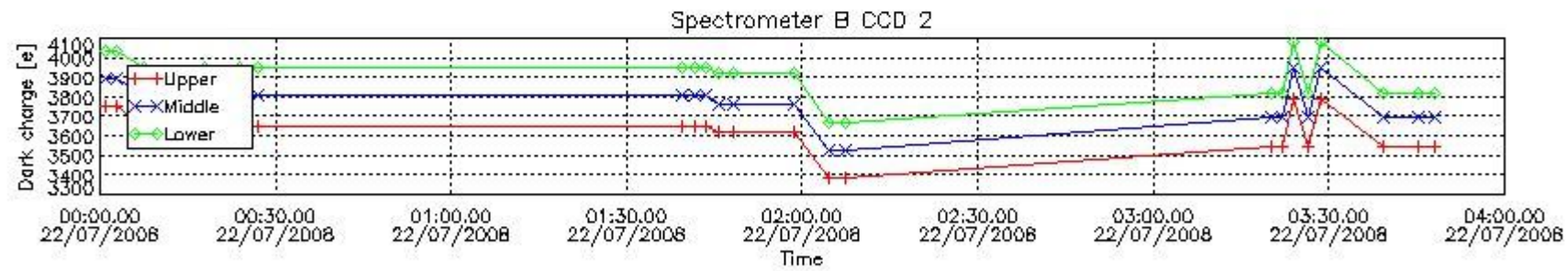
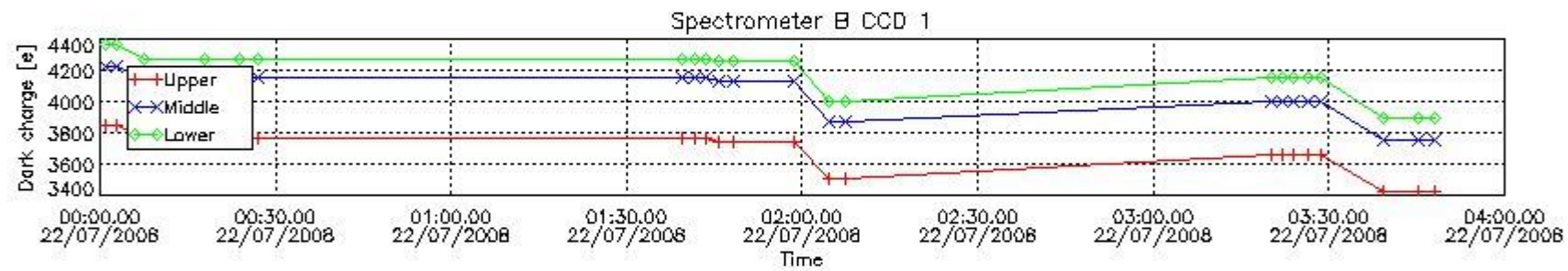
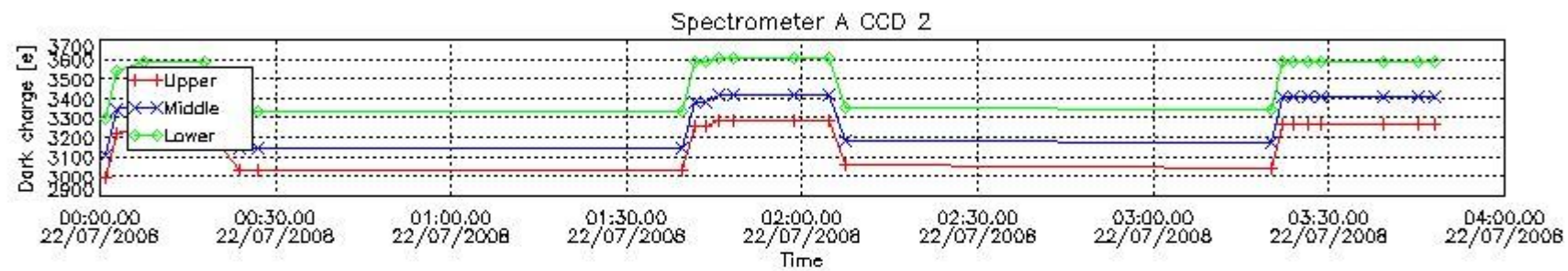
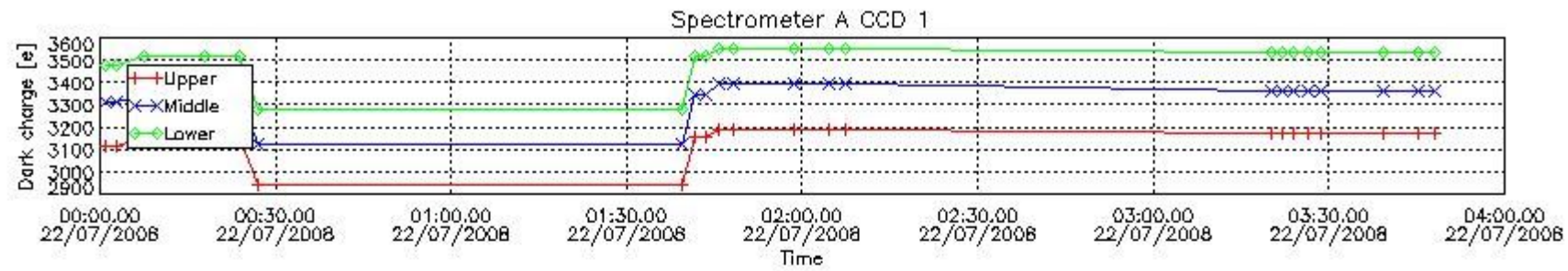
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted 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



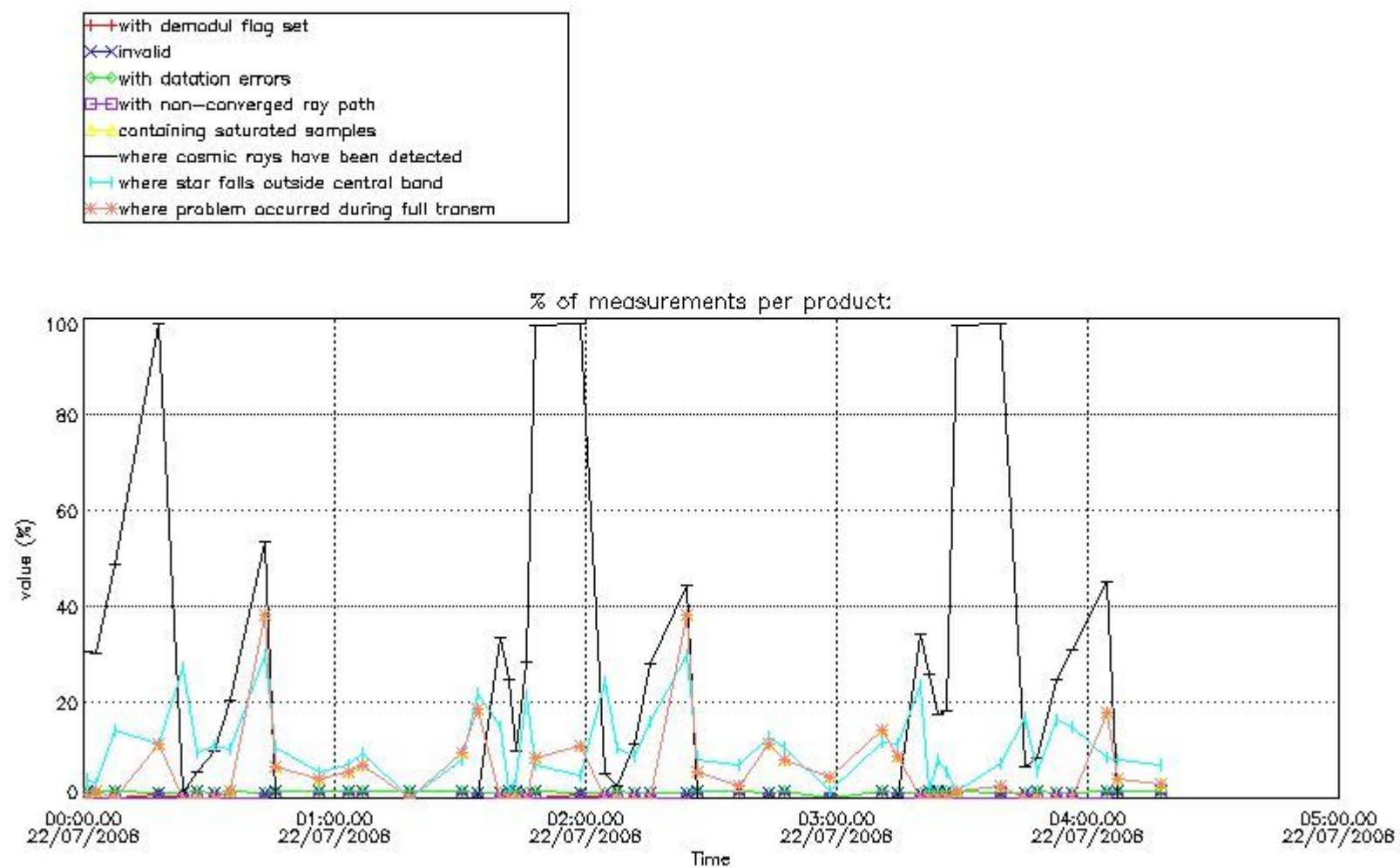
5. Demodulation flag and quality information monitoring

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.

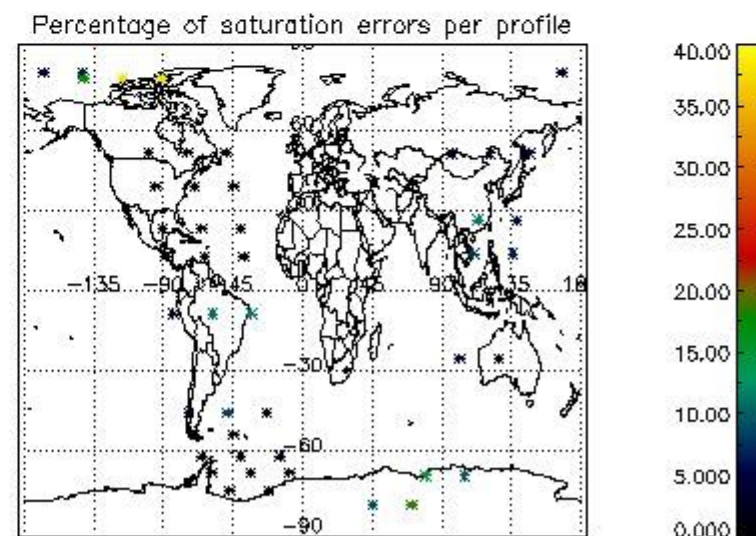
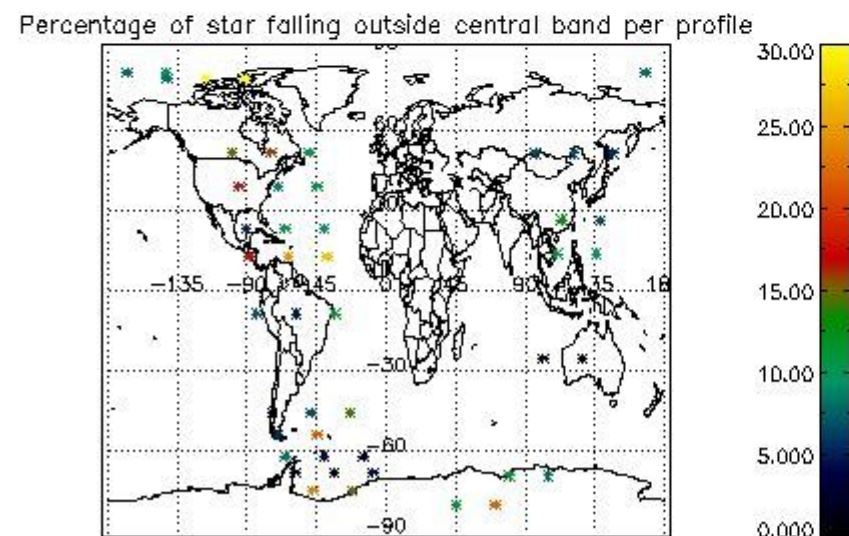
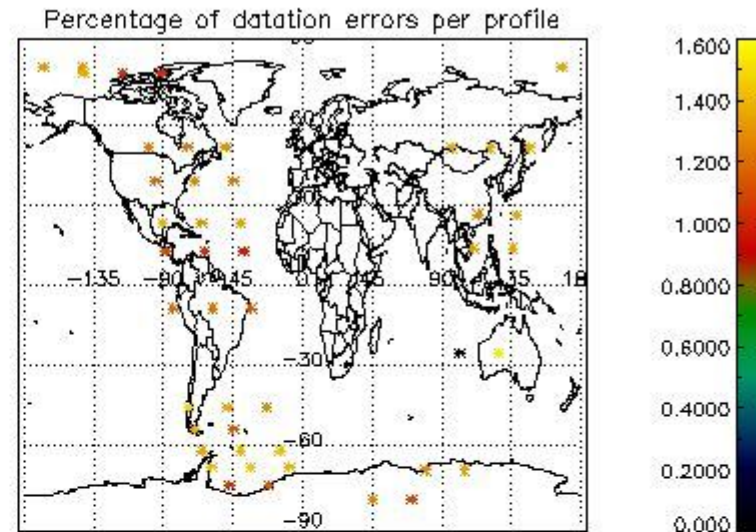
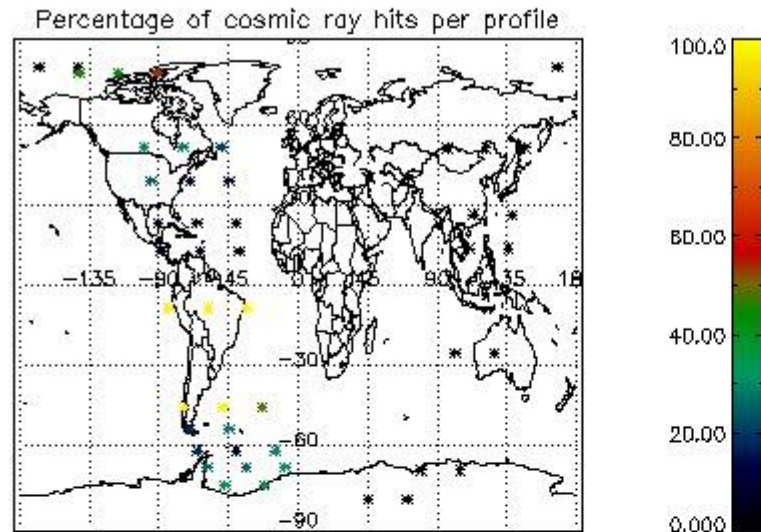
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 21.2766 % |
| 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)



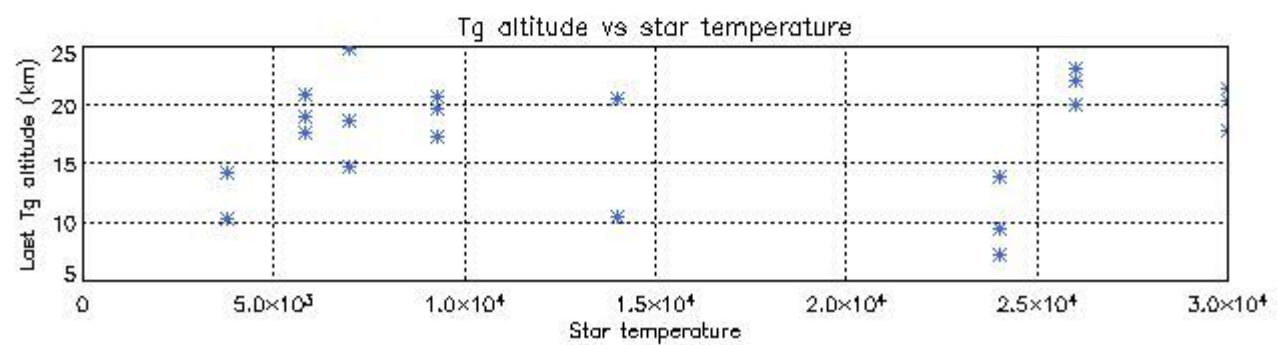
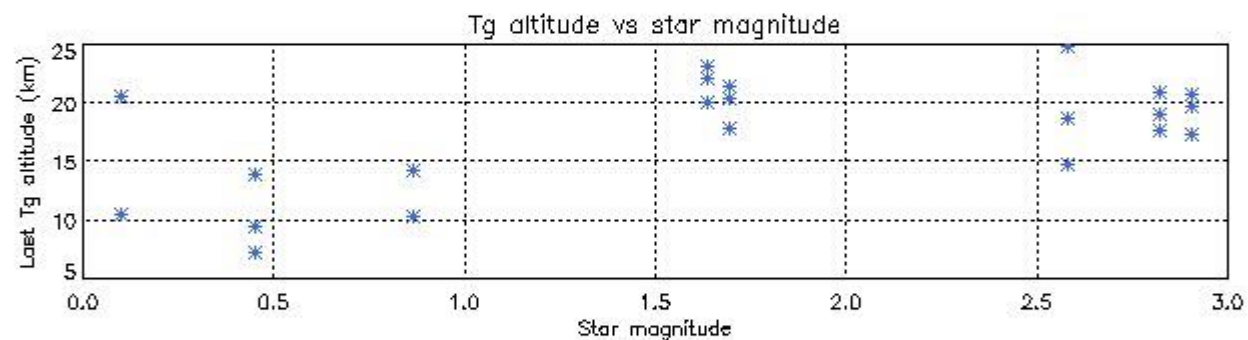
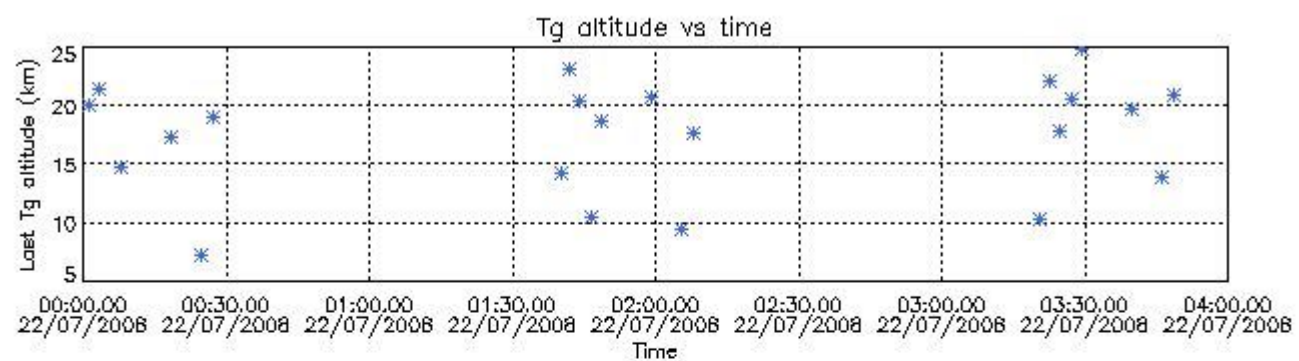
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 17.485 | 18.175 | NaN |
| St. deviation: | 4.7977 | 5.4562 | NaN |
| Maximum: | 24.844 | 28.466 | NaN |
| Minimum: | 7.2043 | 6.5520 | NaN |
| Number of data: | 22.000 | 19.000 | NaN |

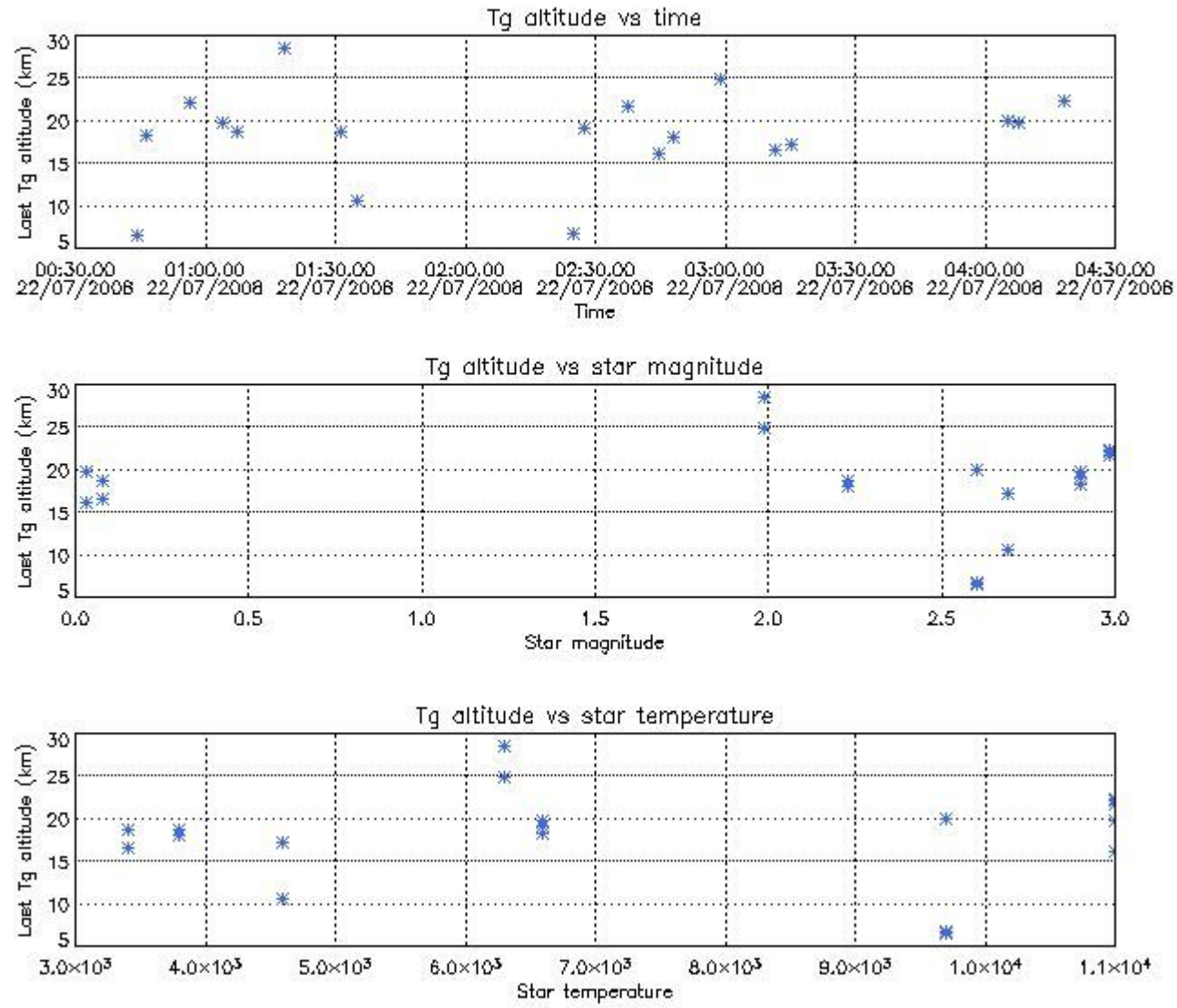
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

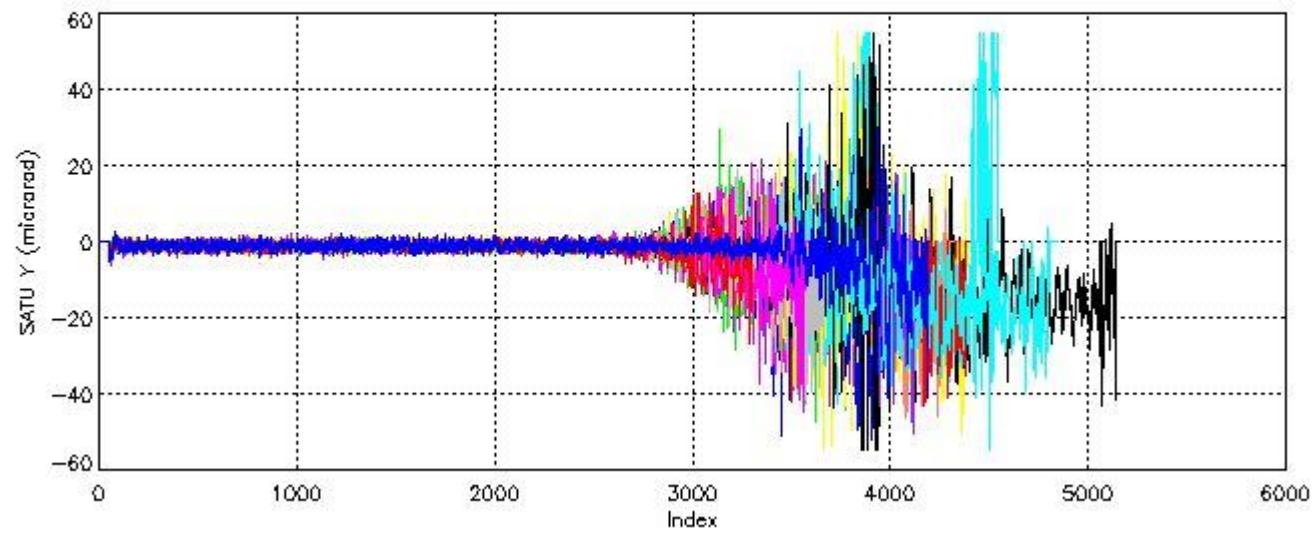
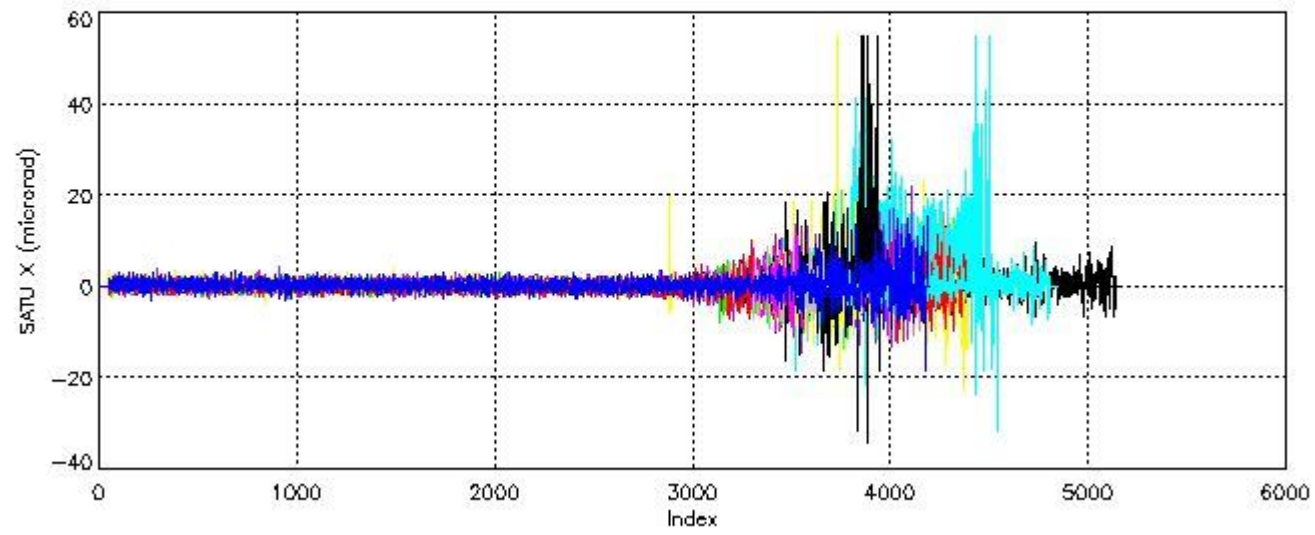


7. Star Acquisition and Tracking Unit (SATU)

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 function 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 frequency 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: | 0.026560 | -1.3310 | 0.11275 | -1.4117 |
| St. deviation: | 0.50954 | 0.63647 | 0.71422 | 0.84293 |
| Maximum: | 4.1000 | 2.6000 | 6.1000 | 5.2000 |
| Minimum: | -3.6000 | -6.2000 | -7.4000 | -7.6000 |

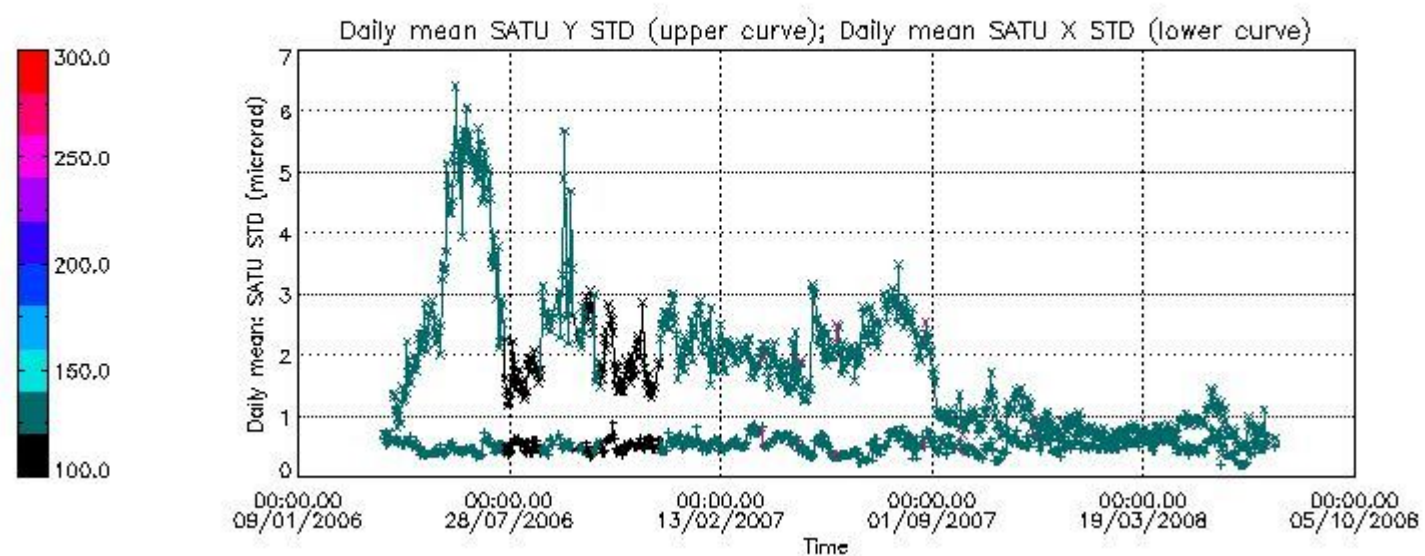
| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 19600. | 19600. | 15900. | 15900. |
|-----------------|--------|--------|--------|--------|

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.

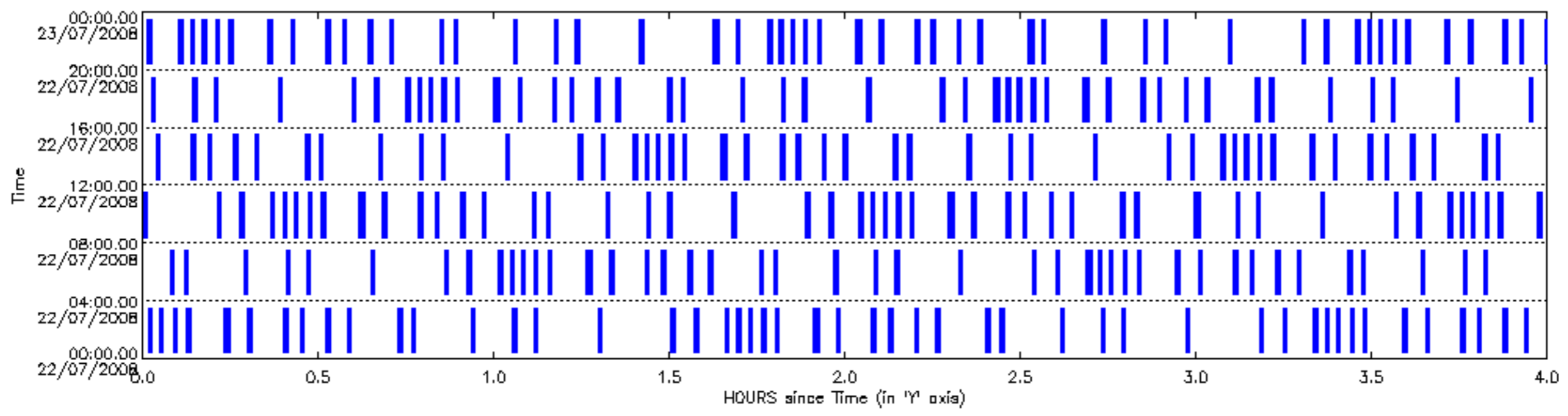
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

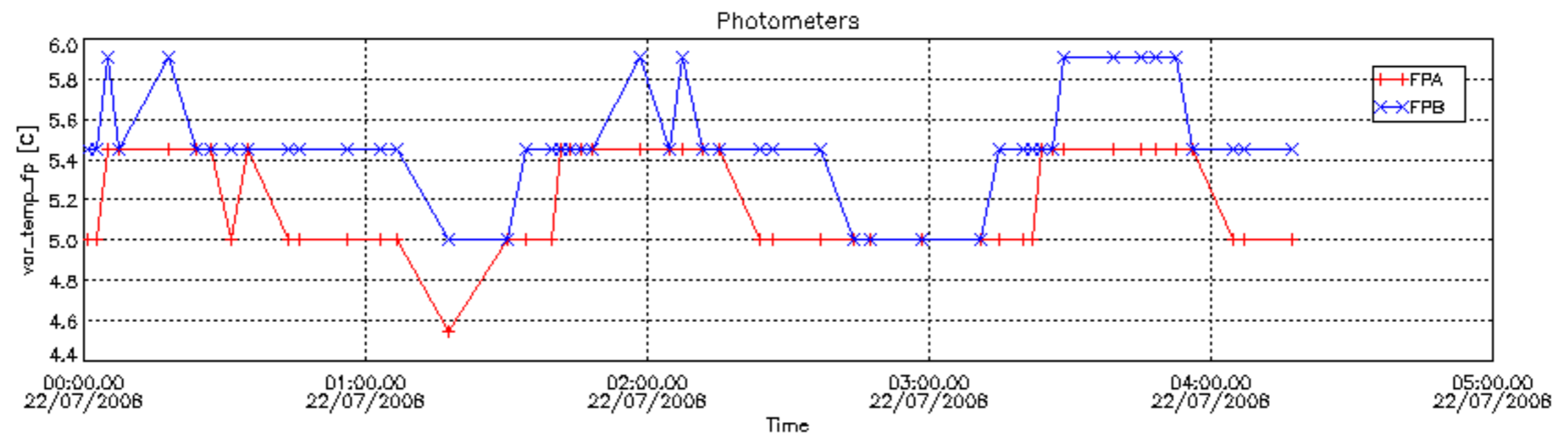
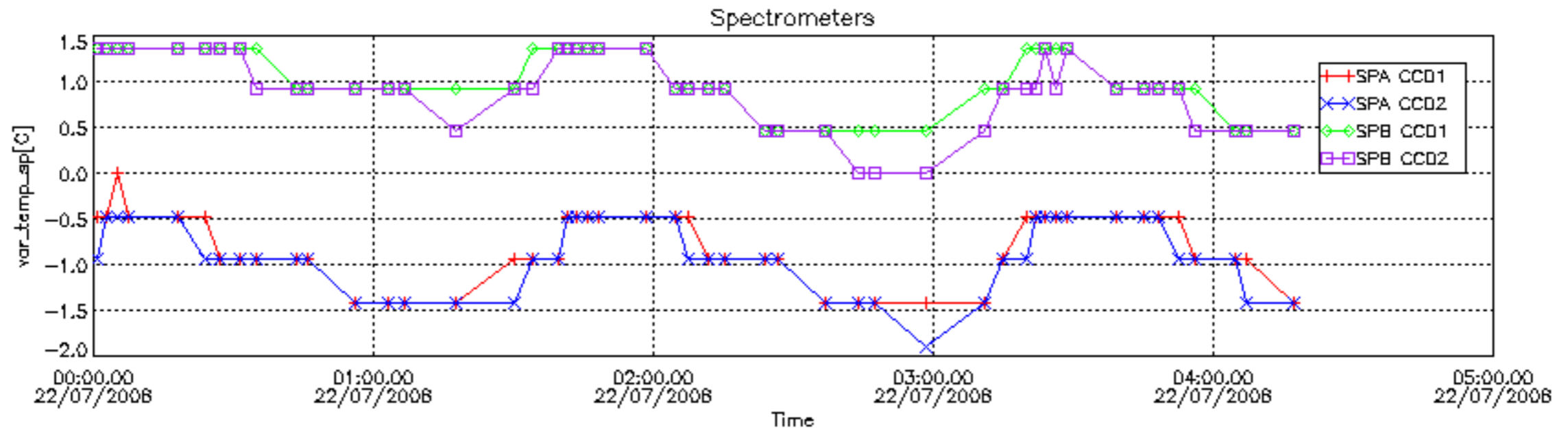


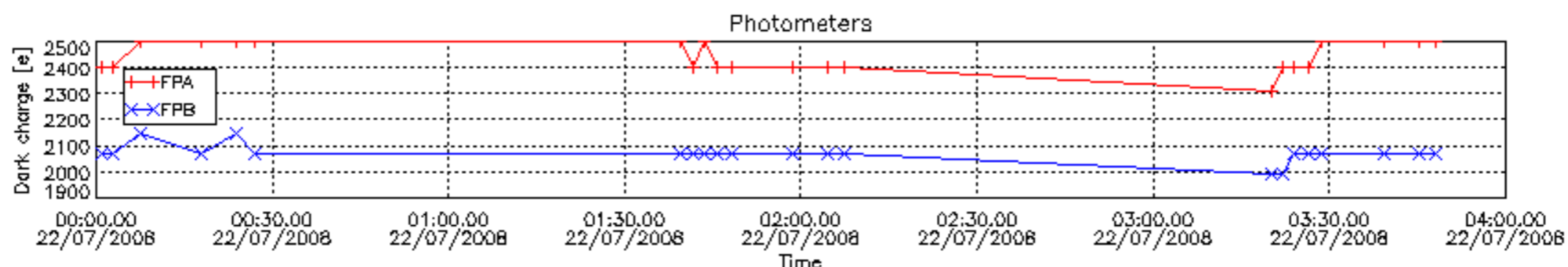
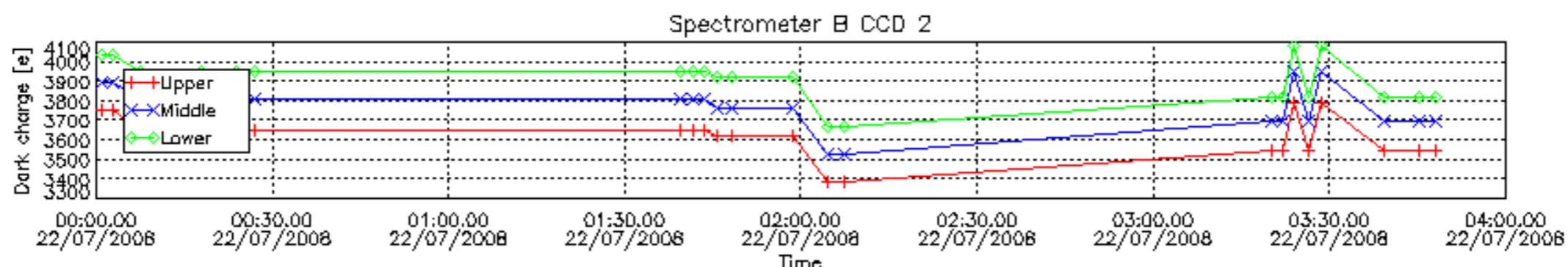
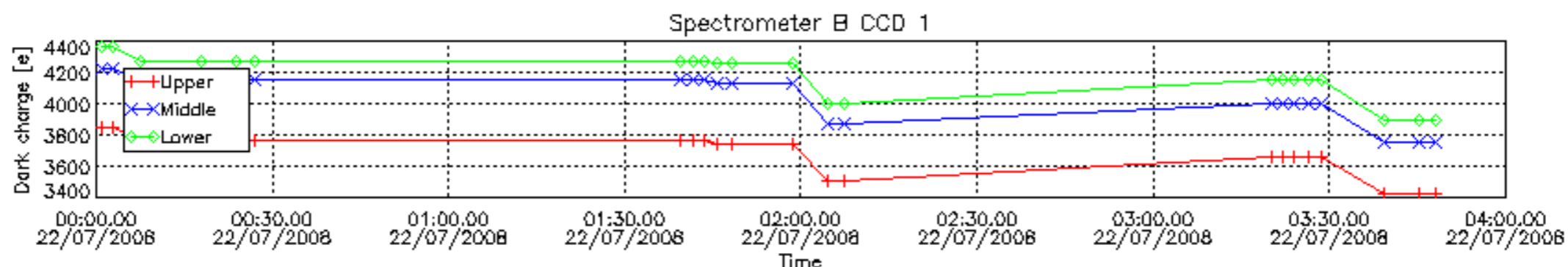
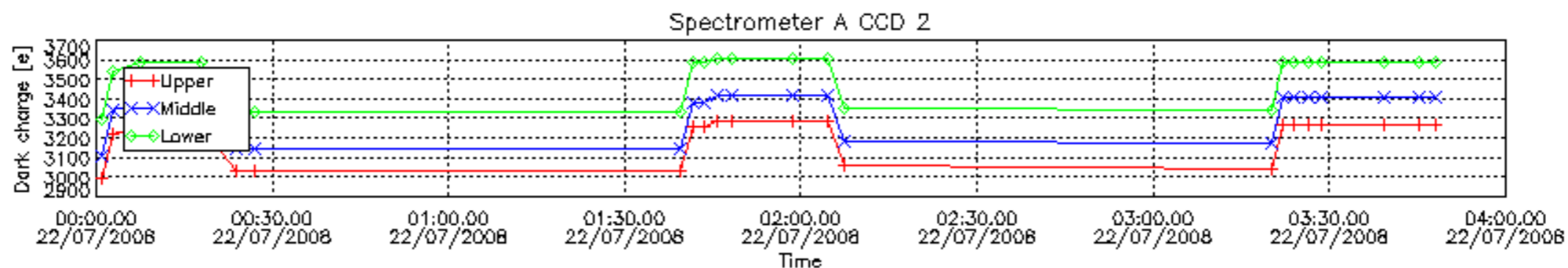
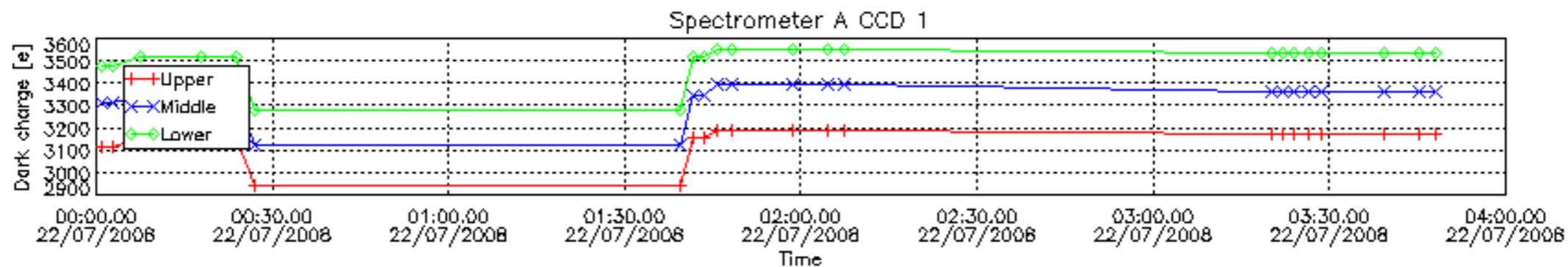
8. Auxiliary Data Files used for the production reported in section 2.4

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.

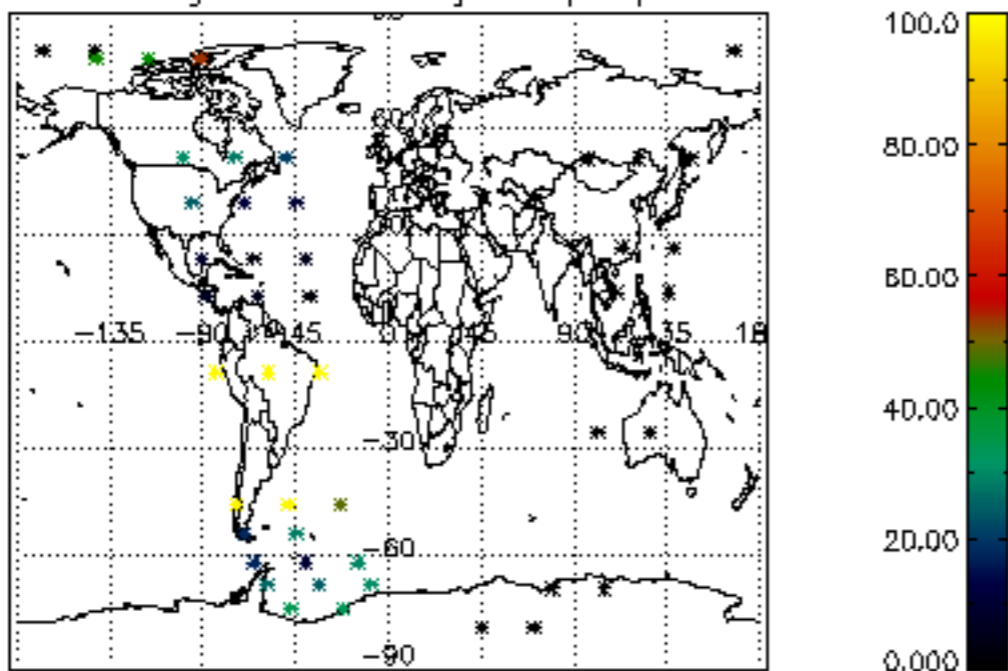
| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 22-JUL-2008 00:00:56 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000 | 1 | 22-JUL-2008 00:00:56 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 22-JUL-2008 00:00:56 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 22-JUL-2008 00:00:56 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 22-JUL-2008 00:00:56 |
| ECMWF_FILE | AUX_ECF_AXNECM20080721_072112_20080721_210000_20080722_090000 | 1 | 22-JUL-2008 00:00:56 |
| ECMWF_FILE | AUX_ECF_AXNECM20080721_192112_20080722_030000_20080722_150000 | 34 | 22-JUL-2008 03:10:53 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 22-JUL-2008 00:00:56 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20080721_204207_000057382070_00300_33420_5995.N1 | 1 | 22-JUL-2008 00:00:56 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20080721_222304_000057382070_00301_33421_5996.N1 | 3 | 22-JUL-2008 00:05:08 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20080722_000401_000057382070_00302_33422_5997.N1 | 21 | 22-JUL-2008 01:45:44 |
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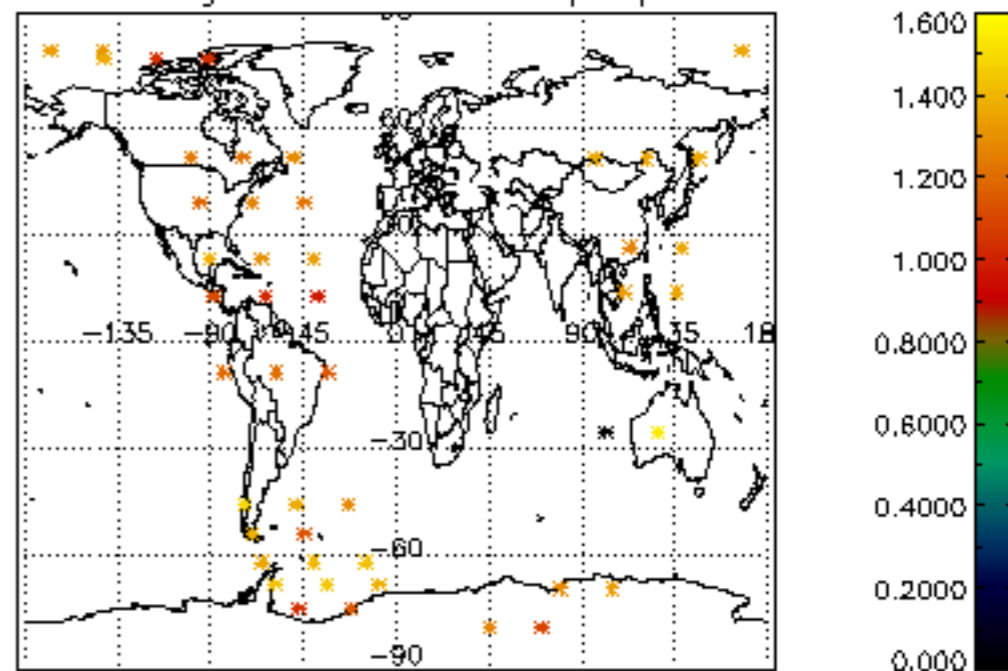




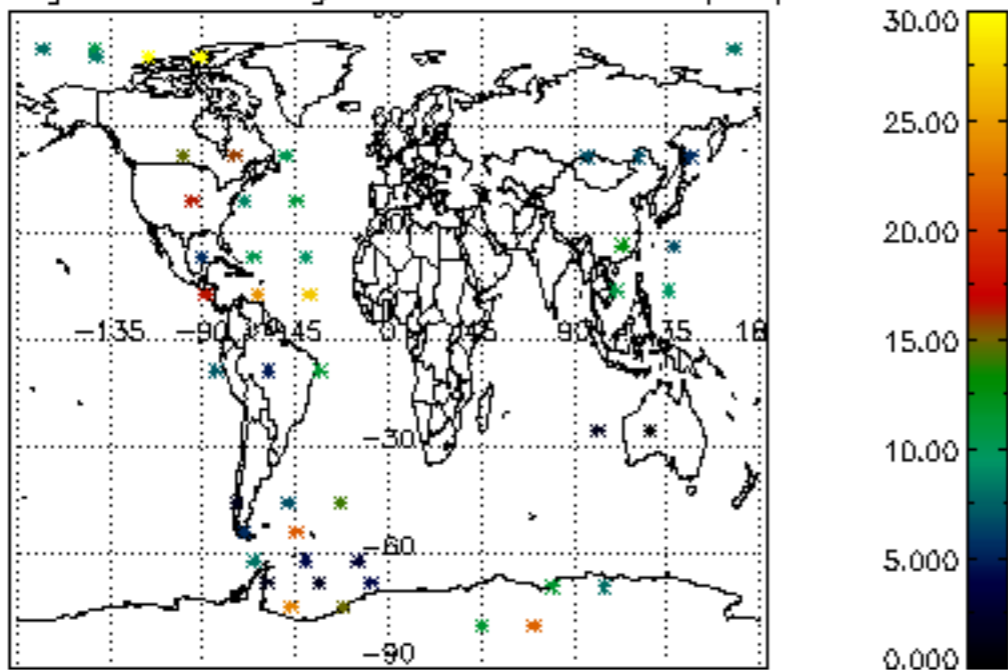
Percentage of cosmic ray hits per profile



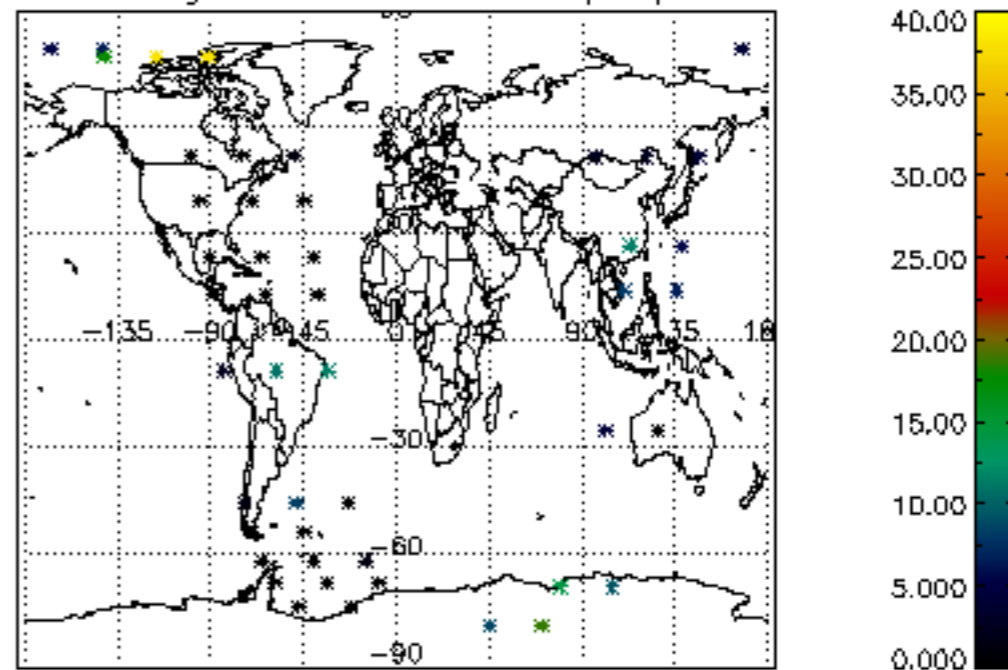
Percentage of datation errors per profile



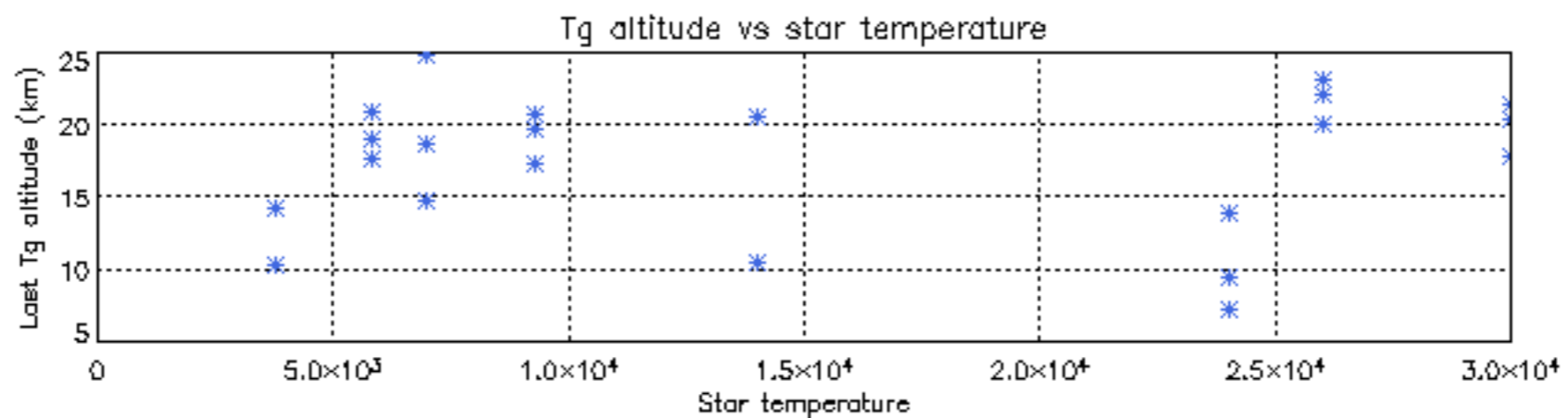
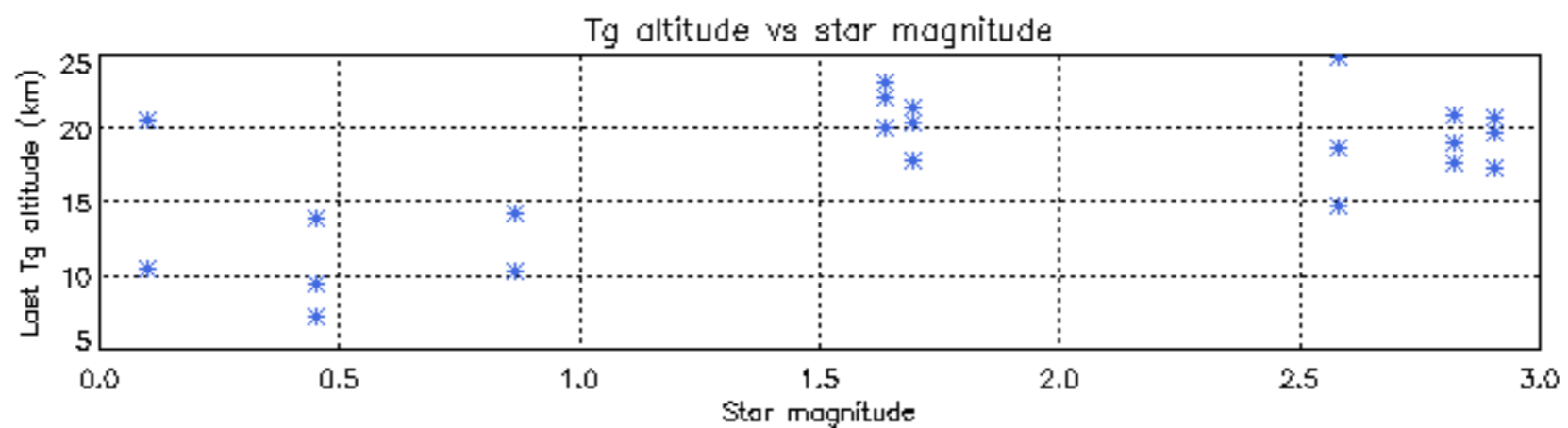
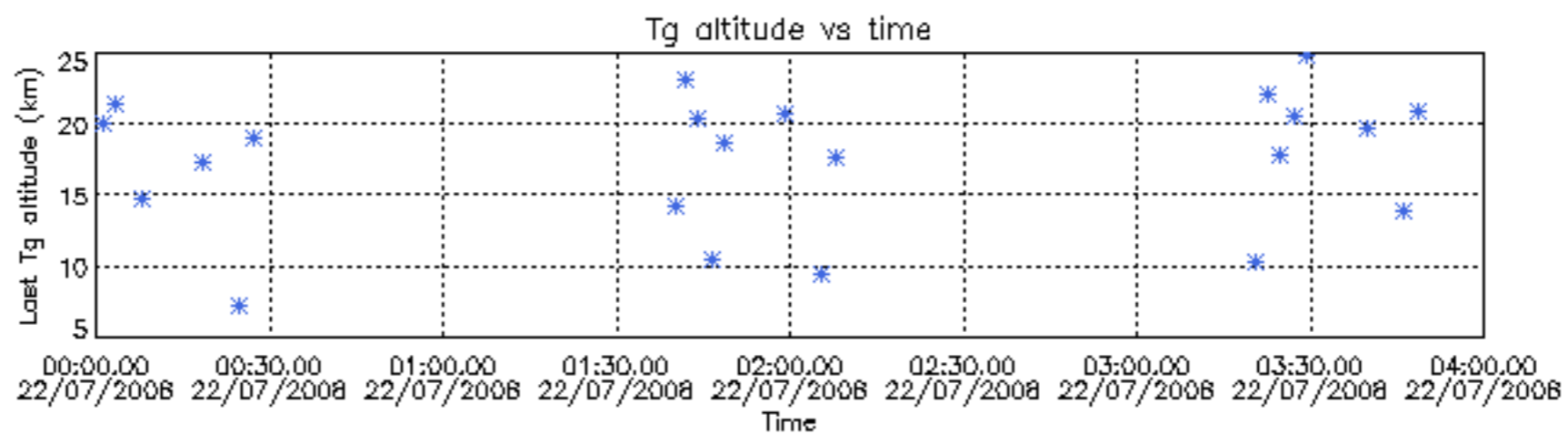
Percentage of star falling outside central band per profile



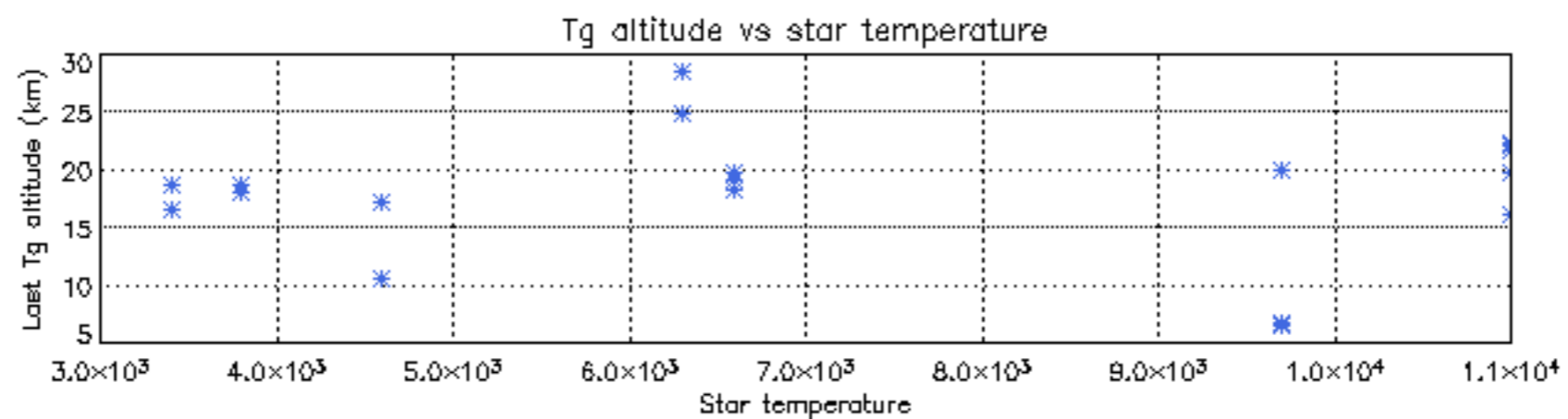
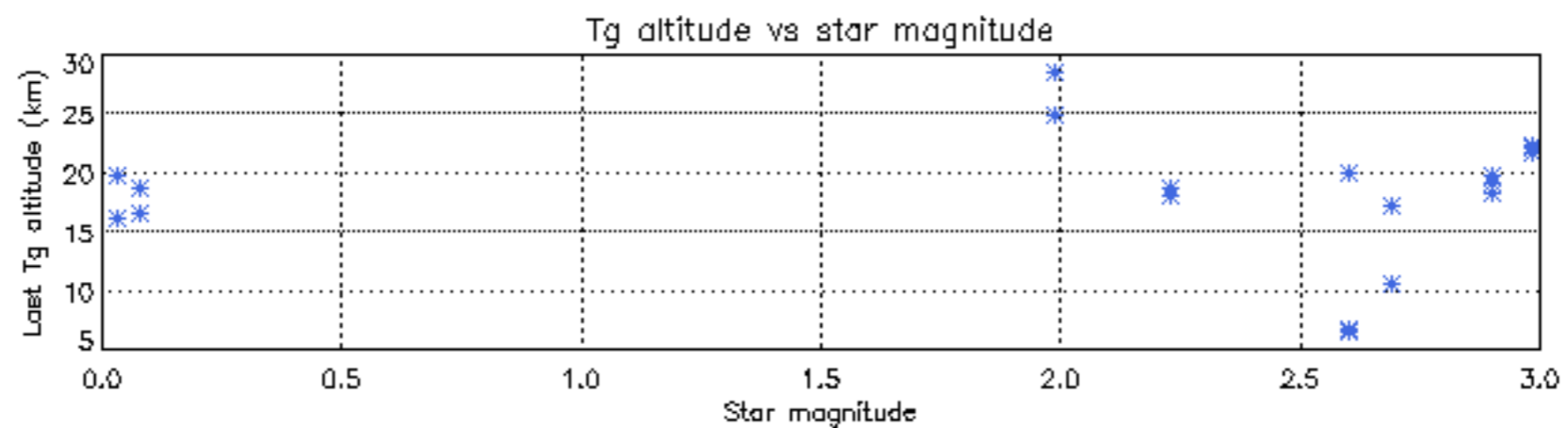
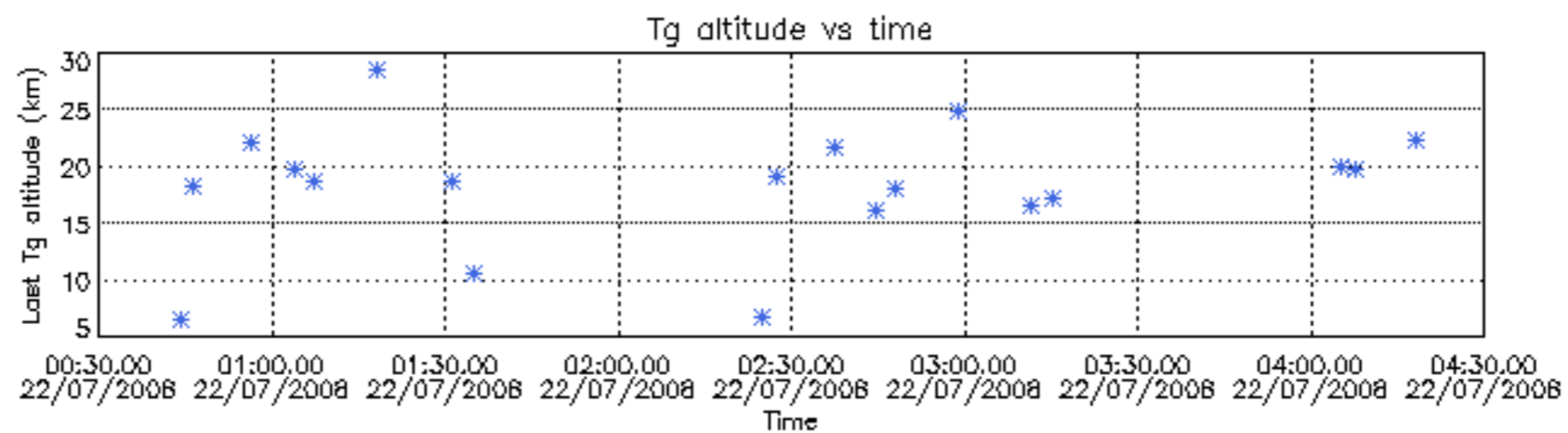
Percentage of saturation errors per profile

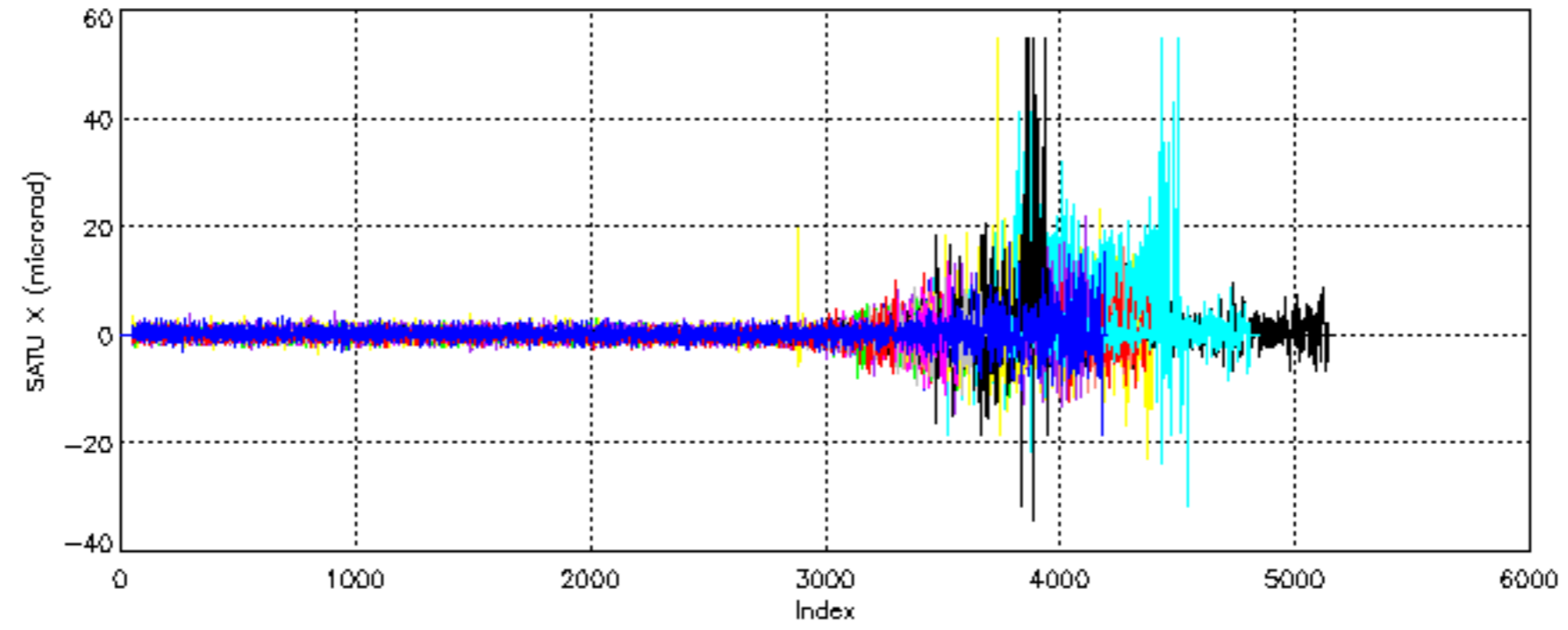


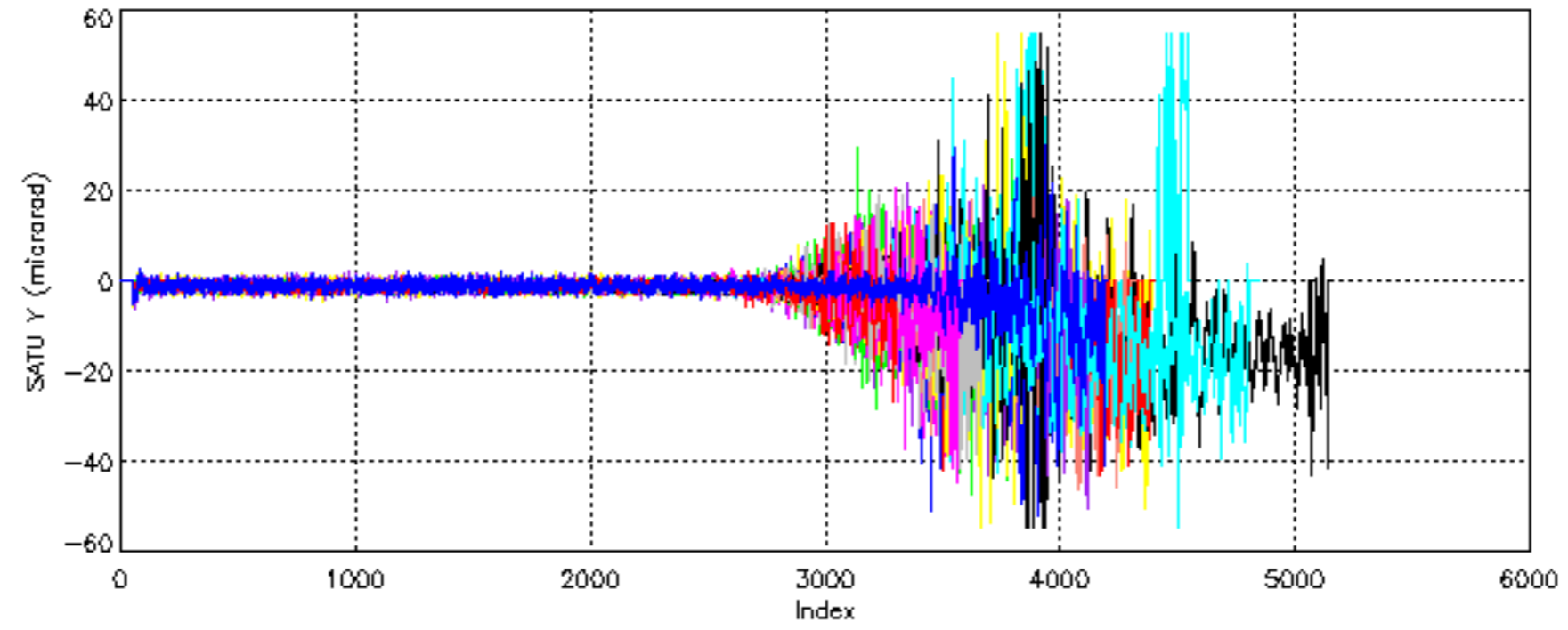
Tangent altitude at which the star is lost

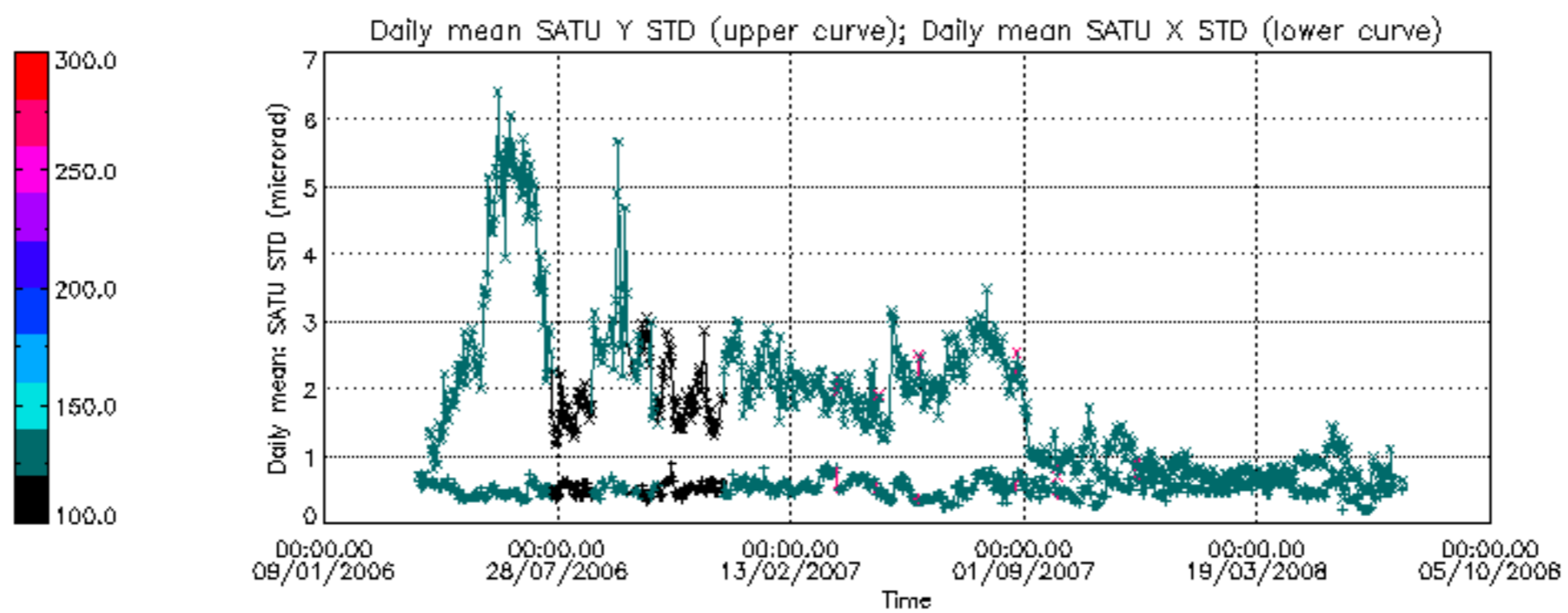


Tangent altitude at which the star is lost









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 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134
 13; 3194.0; 01-JUL-2008 20:40:32; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33134
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 15; 4062.2; 01-JUL-2008 20:55:00; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33134
 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134
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 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134
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 6; 2449.8; 01-JUL-2008 10:24:32; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33128
 7; 2808.4; 01-JUL-2008 10:30:31; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33128
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12; 2660.5; 30-JUL-2008 01:53:34; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33538
13; 3101.8; 30-JUL-2008 02:00:55; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33538
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5; 913.8; 31-JUL-2008 00:52:50; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33552


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19; 4906.4; 31-JUL-2008 01:59:23; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;33552
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5; 300.5; 31-JUL-2008 02:23:13; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;33553
6; 714.3; 31-JUL-2008 02:30:07; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;33553
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13; 2654.3; 31-JUL-2008 03:02:27; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33553
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19; 2654.0; 31-JUL-2008 04:43:02; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33554
20; 3094.8; 31-JUL-2008 04:50:23; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;33554
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12; 301.9; 31-JUL-2008 05:44:26; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33555
13; 715.2; 31-JUL-2008 05:51:20; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33555

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19; 2653.6; 31-JUL-2008 06:23:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33555
20; 3094.4; 31-JUL-2008 06:30:59; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33555
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