

GOMOS Daily Report 10-NOV-2007

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 | 12NOV2007 05:47:05 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (10NOV2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (11NOV2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 50 |
| Nb of prods with errors | 0 |

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

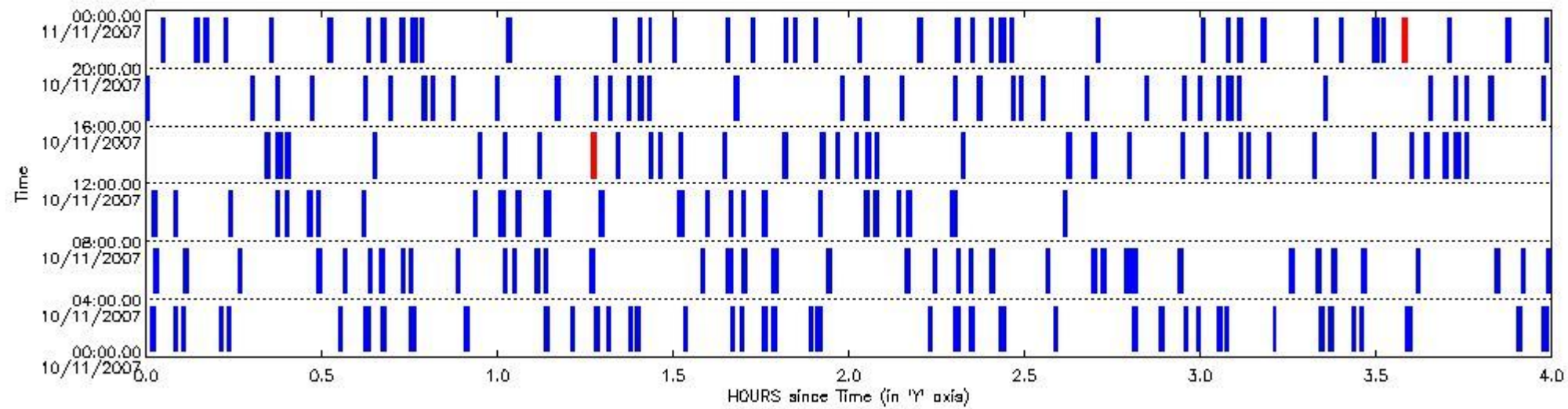
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

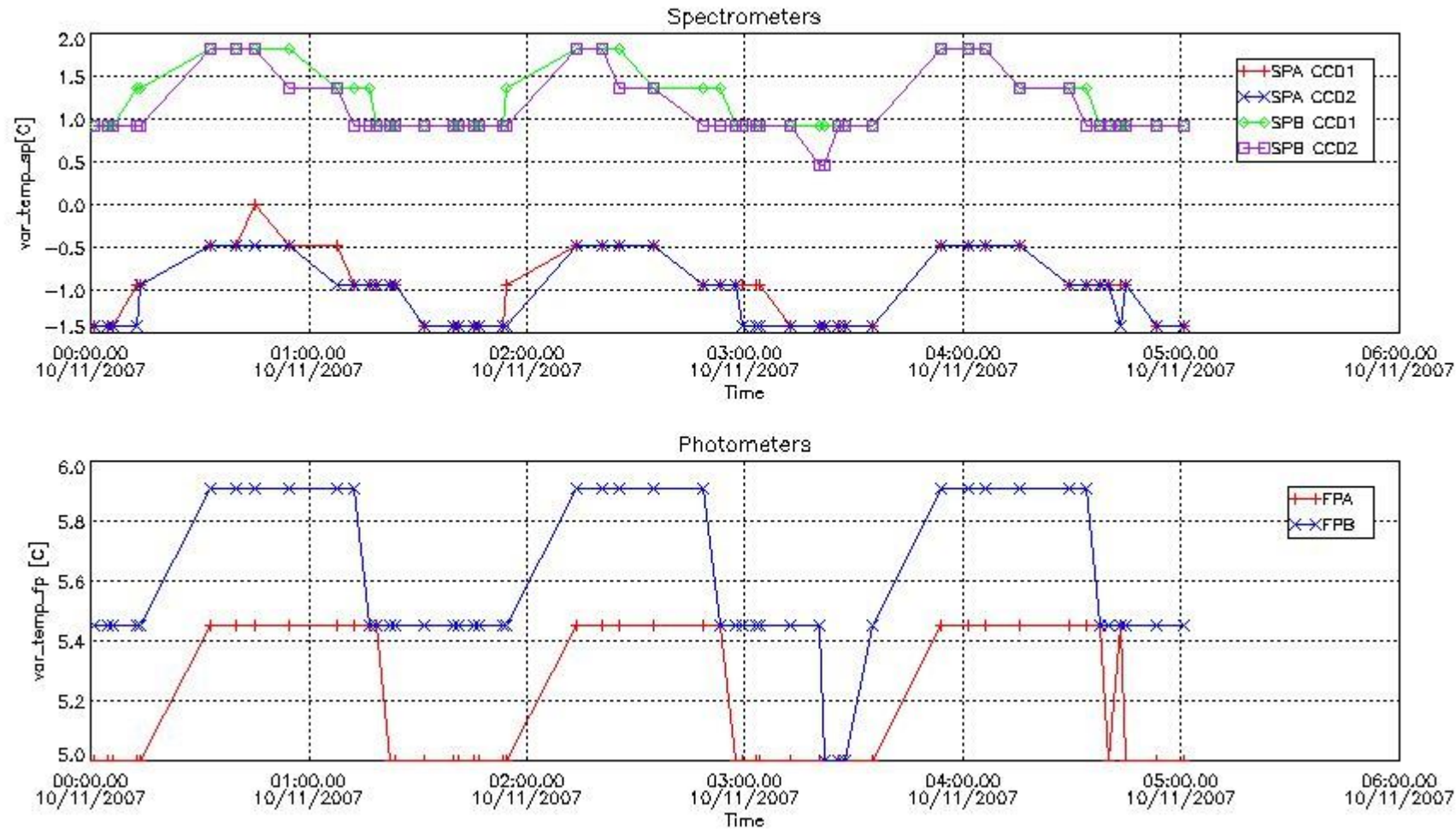
| UTC start time | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 10-NOV-2007 13:15:56 | 1AlpUMi | 49 | 29780 |
| 10-NOV-2007 23:34:29 | 12Alp2CVn | 152 | 29786 |

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_1PNPDE20071110_000043_000000412063_00159_29772_1037.N1 | 10-NOV-2007 00:00:43 | Bright | 41.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 82 | 29772 | No |
| 2 | GOM_TRA_1PNPDE20071110_000436_000000402063_00159_29772_1038.N1 | 10-NOV-2007 00:04:36 | Bright | 40.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 80 | 29772 | No |
| 3 | GOM_TRA_1PNPDE20071110_000606_000000342063_00159_29772_1039.N1 | 10-NOV-2007 00:06:06 | Bright | 34.000 | 152 | 12Alp2CVn | 2.8900 | 11000. | 68 | 29772 | No |
| 4 | GOM_TRA_1PNPDE20071110_001236_000000312063_00159_29772_1040.N1 | 10-NOV-2007 00:12:36 | Bright | 31.000 | 96 | 68Del Leo | 2.5600 | 9300.0 | 62 | 29772 | No |
| 5 | GOM_TRA_1PNPDE20071110_001348_000000392063_00159_29772_1041.N1 | 10-NOV-2007 00:13:48 | Bright | 38.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 77 | 29772 | No |
| 6 | GOM_TRA_1PNPDE20071110_003249_000000402063_00159_29772_1187.N1 | 10-NOV-2007 00:32:49 | Dark | 40.000 | 113 | Mu Vel | 2.6920 | 5000.0 | 80 | 29772 | No |
| 7 | GOM_TRA_1PNPDE20071110_003958_000000482063_00160_29773_1188.N1 | 10-NOV-2007 00:39:58 | Dark | 47.500 | 34 | Gam2Vel | 1.7930 | 23000. | 95 | 29773 | No |
| 8 | GOM_TRA_1PNPDE20071110_004500_000000622063_00160_29773_1189.N1 | 10-NOV-2007 00:45:00 | Dark | 61.500 | 2 | Alp Car | -0.73600 | 7000.0 | 123 | 29773 | No |
| 9 | GOM_TRA_1PNPDE20071110_005422_000000402063_00160_29773_1190.N1 | 10-NOV-2007 00:54:22 | Straylight | 39.500 | 157 | The1Eri | 2.9060 | 9300.0 | 79 | 29773 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 10 | GOM_TRA_1PNPDE20071110_010748_000000532063_00160_29773_1191.N1 | 10-NOV-2007 01:07:48 | Twilight | 53.000 | 94 | 92Alp Cet | 2.5260 | 3100.0 | 106 | 29773 | No |
| 11 | GOM_TRA_1PNPDE20071110_011226_000000382063_00160_29773_1192.N1 | 10-NOV-2007 01:12:26 | Bright | 37.500 | 105 | 6Bet Ari | 2.6450 | 8900.0 | 75 | 29773 | No |
| 12 | GOM_TRA_1PNPDE20071110_011636_000000382063_00160_29773_1193.N1 | 10-NOV-2007 01:16:36 | Bright | 37.500 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 75 | 29773 | No |
| 13 | GOM_TRA_1PNPDE20071110_011840_000000382063_00160_29773_1194.N1 | 10-NOV-2007 01:18:40 | Bright | 38.000 | 73 | 57Gam1And | 2.2600 | 13100. | 76 | 29773 | No |
| 14 | GOM_TRA_1PNPDE20071110_012217_000000402063_00160_29773_1195.N1 | 10-NOV-2007 01:22:17 | Bright | 40.000 | 35 | 33Alp Per | 1.7950 | 6250.0 | 80 | 29773 | No |
| 15 | GOM_TRA_1PNPDE20071110_012334_000000352063_00160_29773_1196.N1 | 10-NOV-2007 01:23:34 | Bright | 35.000 | 110 | 37Del Cas | 2.6780 | 8900.0 | 70 | 29773 | No |
| 16 | GOM_TRA_1PNPDE20071110_013147_000000352063_00160_29773_1197.N1 | 10-NOV-2007 01:31:47 | Bright | 34.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 69 | 29773 | No |
| 17 | GOM_TRA_1PNPDE20071110_013941_000000402063_00160_29773_1198.N1 | 10-NOV-2007 01:39:41 | Bright | 40.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 80 | 29773 | No |
| 18 | GOM_TRA_1PNPDE20071110_014119_000000402063_00160_29773_1199.N1 | 10-NOV-2007 01:41:19 | Bright | 39.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 79 | 29773 | No |
| 19 | GOM_TRA_1PNPDE20071110_014512_000000412063_00160_29773_1200.N1 | 10-NOV-2007 01:45:12 | Bright | 41.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 82 | 29773 | No |
| 20 | GOM_TRA_1PNPDE20071110_014643_000000462063_00160_29773_1201.N1 | 10-NOV-2007 01:46:43 | Bright | 45.500 | 152 | 12Alp2CVn | 2.8900 | 11000. | 91 | 29773 | No |
| 21 | GOM_TRA_1PNPDE20071110_015312_000000312063_00160_29773_1202.N1 | 10-NOV-2007 01:53:12 | Bright | 31.000 | 96 | 68Del Leo | 2.5600 | 9300.0 | 62 | 29773 | No |
| 22 | GOM_TRA_1PNPDE20071110_015424_000000572063_00160_29773_1203.N1 | 10-NOV-2007 01:54:24 | Bright | 56.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 113 | 29773 | No |
| 23 | GOM_TRA_1PNPDE20071110_021326_000000392063_00160_29773_1331.N1 | 10-NOV-2007 02:13:26 | Dark | 39.000 | 113 | Mu Vel | 2.6920 | 5000.0 | 78 | 29773 | No |
| 24 | GOM_TRA_1PNPDE20071110_022035_000000472063_00161_29774_1332.N1 | 10-NOV-2007 02:20:35 | Dark | 46.500 | 34 | Gam2Vel | 1.7930 | 23000. | 93 | 29774 | No |
| 25 | GOM_TRA_1PNPDE20071110_022536_000000602063_00161_29774_1333.N1 | 10-NOV-2007 02:25:36 | Dark | 60.000 | 2 | Alp Car | -0.73600 | 7000.0 | 120 | 29774 | No |
| 26 | GOM_TRA_1PNPDE20071110_023459_000000402063_00161_29774_1334.N1 | 10-NOV-2007 02:34:59 | Straylight | 39.500 | 157 | The1Eri | 2.9060 | 9300.0 | 79 | 29774 | No |
| 27 | GOM_TRA_1PNPDE20071110_024824_000000532063_00161_29774_1335.N1 | 10-NOV-2007 02:48:24 | Twilight | 53.000 | 94 | 92Alp Cet | 2.5260 | 3100.0 | 106 | 29774 | No |
| 28 | GOM_TRA_1PNPDE20071110_025302_000000372063_00161_29774_1336.N1 | 10-NOV-2007 02:53:02 | Bright | 36.500 | 105 | 6Bet Ari | 2.6450 | 8900.0 | 73 | 29774 | No |
| 29 | GOM_TRA_1PNPDE20071110_025712_000000362063_00161_29774_1337.N1 | 10-NOV-2007 02:57:12 | Bright | 36.000 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 72 | 29774 | No |
| 30 | GOM_TRA_1PNPDE20071110_025915_000000382063_00161_29774_1338.N1 | 10-NOV-2007 02:59:15 | Bright | 38.000 | 73 | 57Gam1And | 2.2600 | 13100. | 76 | 29774 | No |
| 31 | GOM_TRA_1PNPDE20071110_030252_000000402063_00161_29774_1339.N1 | 10-NOV-2007 03:02:52 | Bright | 40.000 | 35 | 33Alp Per | 1.7950 | 6250.0 | 80 | 29774 | No |
| 32 | GOM_TRA_1PNPDE20071110_030410_000000352063_00161_29774_1340.N1 | 10-NOV-2007 03:04:10 | Bright | 35.000 | 110 | 37Del Cas | 2.6780 | 8900.0 | 70 | 29774 | No |
| 33 | GOM_TRA_1PNPDE20071110_031223_000000322063_00161_29774_1341.N1 | 10-NOV-2007 03:12:23 | Bright | 31.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 63 | 29774 | No |
| 34 | GOM_TRA_1PNPDE20071110_032017_000000412063_00161_29774_1482.N1 | 10-NOV-2007 03:20:17 | Bright | 41.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 82 | 29774 | No |
| 35 | GOM_TRA_1PNPDE20071110_032155_000000422063_00161_29774_1483.N1 | 10-NOV-2007 03:21:55 | Bright | 42.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 84 | 29774 | No |
| 36 | GOM_TRA_1PNPDE20071110_032548_000000402063_00161_29774_1484.N1 | 10-NOV-2007 03:25:48 | Bright | 40.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 80 | 29774 | No |
| 37 | GOM_TRA_1PNPDE20071110_032718_000000352063_00161_29774_1485.N1 | 10-NOV-2007 03:27:18 | Bright | 34.500 | 152 | 12Alp2CVn | 2.8900 | 11000. | 69 | 29774 | No |
| 38 | GOM_TRA_1PNPDE20071110_033500_000000572063_00161_29774_1486.N1 | 10-NOV-2007 03:35:00 | Bright | 57.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 114 | 29774 | No |
| 39 | GOM_TRA_1PNPDE20071110_035403_000000412063_00161_29774_1487.N1 | 10-NOV-2007 03:54:03 | Dark | 40.500 | 113 | Mu Vel | 2.6920 | 5000.0 | 81 | 29774 | No |
| 40 | GOM_TRA_1PNPDE20071110_040112_000000472063_00162_29775_1488.N1 | 10-NOV-2007 04:01:12 | Dark | 46.500 | 34 | Gam2Vel | 1.7930 | 23000. | 93 | 29775 | No |
| 41 | GOM_TRA_1PNPDE20071110_040613_000000492063_00162_29775_1489.N1 | 10-NOV-2007 04:06:13 | Dark | 48.500 | 2 | Alp Car | -0.73600 | 7000.0 | 97 | 29775 | No |
| 42 | GOM_TRA_1PNPDE20071110_041535_000000402063_00162_29775_1490.N1 | 10-NOV-2007 04:15:35 | Straylight | 39.500 | 157 | The1Eri | 2.9060 | 9300.0 | 79 | 29775 | No |
| 43 | GOM_TRA_1PNPDE20071110_042900_000000512063_00162_29775_1491.N1 | 10-NOV-2007 04:29:00 | Twilight | 50.500 | 94 | 92Alp Cet | 2.5260 | 3100.0 | 101 | 29775 | No |
| 44 | GOM_TRA_1PNPDE20071110_043338_000000362063_00162_29775_1492.N1 | 10-NOV-2007 04:33:38 | Bright | 36.000 | 105 | 6Bet Ari | 2.6450 | 8900.0 | 72 | 29775 | No |
| 45 | GOM_TRA_1PNPDE20071110_043748_000000372063_00162_29775_1493.N1 | 10-NOV-2007 04:37:48 | Bright | 36.500 | 173 | 4Bet Tri | 3.0040 | 8900.0 | 73 | 29775 | No |
| 46 | GOM_TRA_1PNPDE20071110_043951_000000382063_00162_29775_1494.N1 | 10-NOV-2007 04:39:51 | Bright | 38.000 | 73 | 57Gam1And | 2.2600 | 13100. | 76 | 29775 | No |
| 47 | GOM_TRA_1PNPDE20071110_044328_000000412063_00162_29775_1495.N1 | 10-NOV-2007 04:43:28 | Bright | 41.000 | 35 | 33Alp Per | 1.7950 | 6250.0 | 82 | 29775 | No |
| 48 | GOM_TRA_1PNPDE20071110_044446_000000352063_00162_29775_1496.N1 | 10-NOV-2007 04:44:46 | Bright | 34.500 | 110 | 37Del Cas | 2.6780 | 8900.0 | 69 | 29775 | No |
| 49 | GOM_TRA_1PNPDE20071110_045259_000000372063_00162_29775_1497.N1 | 10-NOV-2007 04:52:59 | Bright | 37.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 74 | 29775 | No |
| 50 | GOM_TRA_1PNPDE20071110_050053_000000382063_00162_29775_1656.N1 | 10-NOV-2007 05:00:53 | Bright | 38.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 76 | 29775 | No |

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



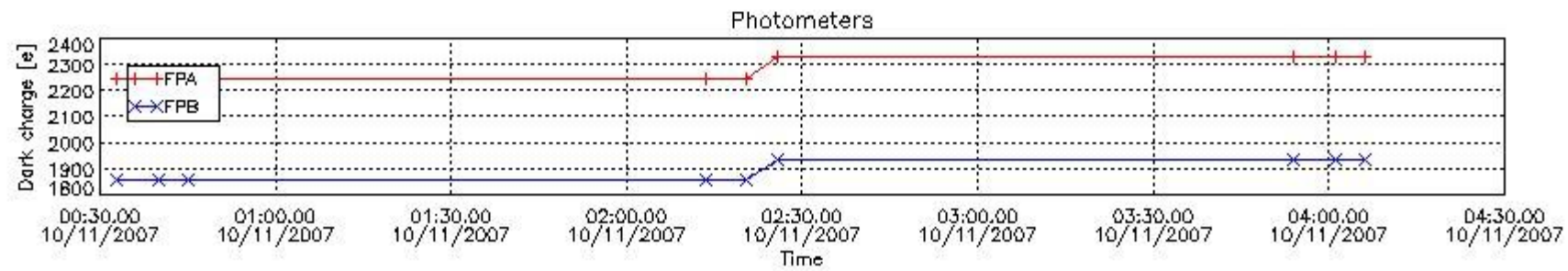
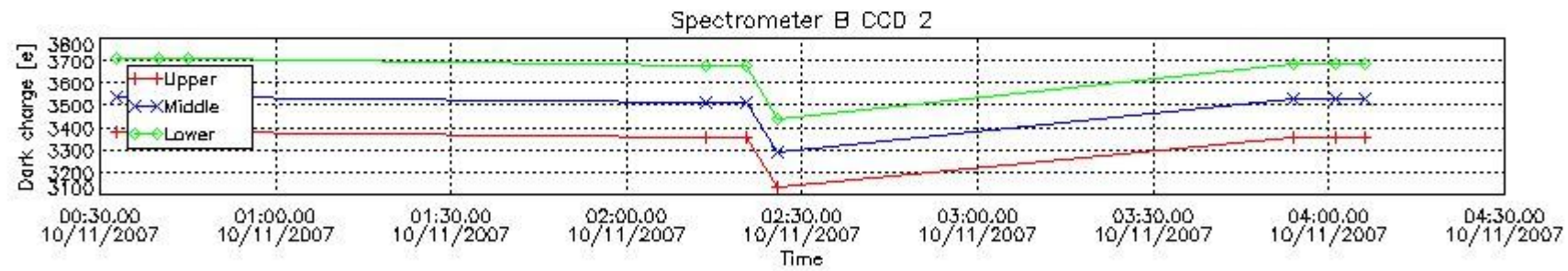
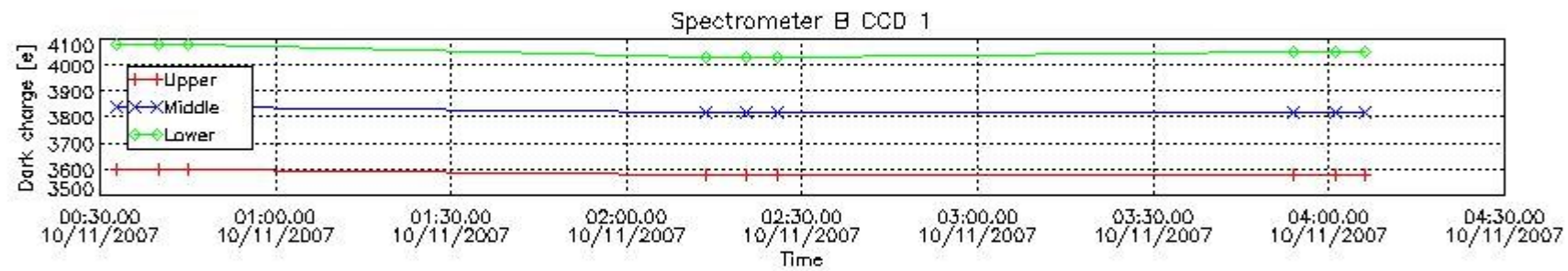
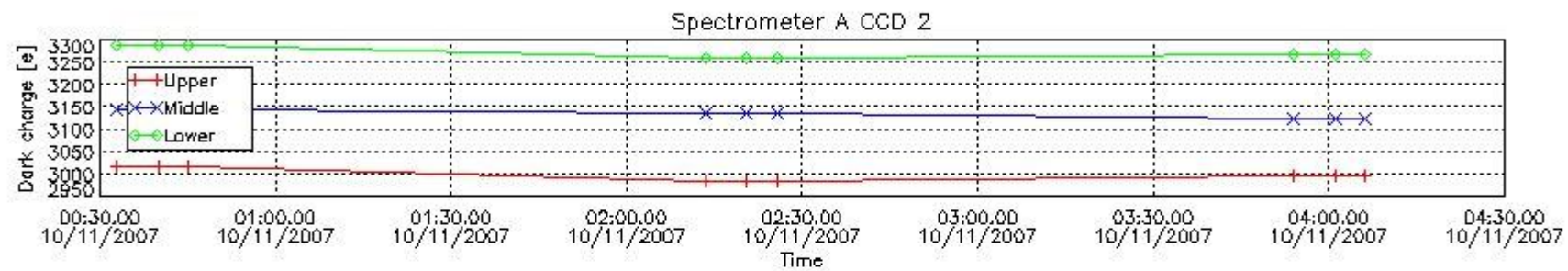
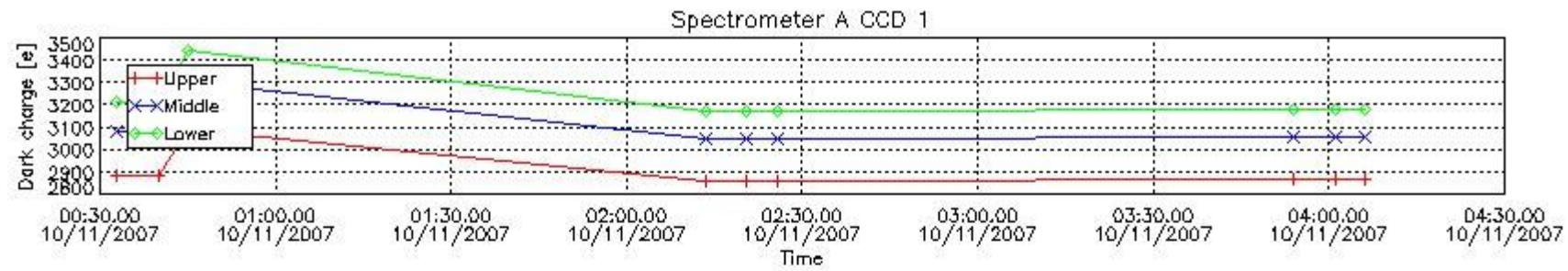
4. Overview of dark signal processing per product

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



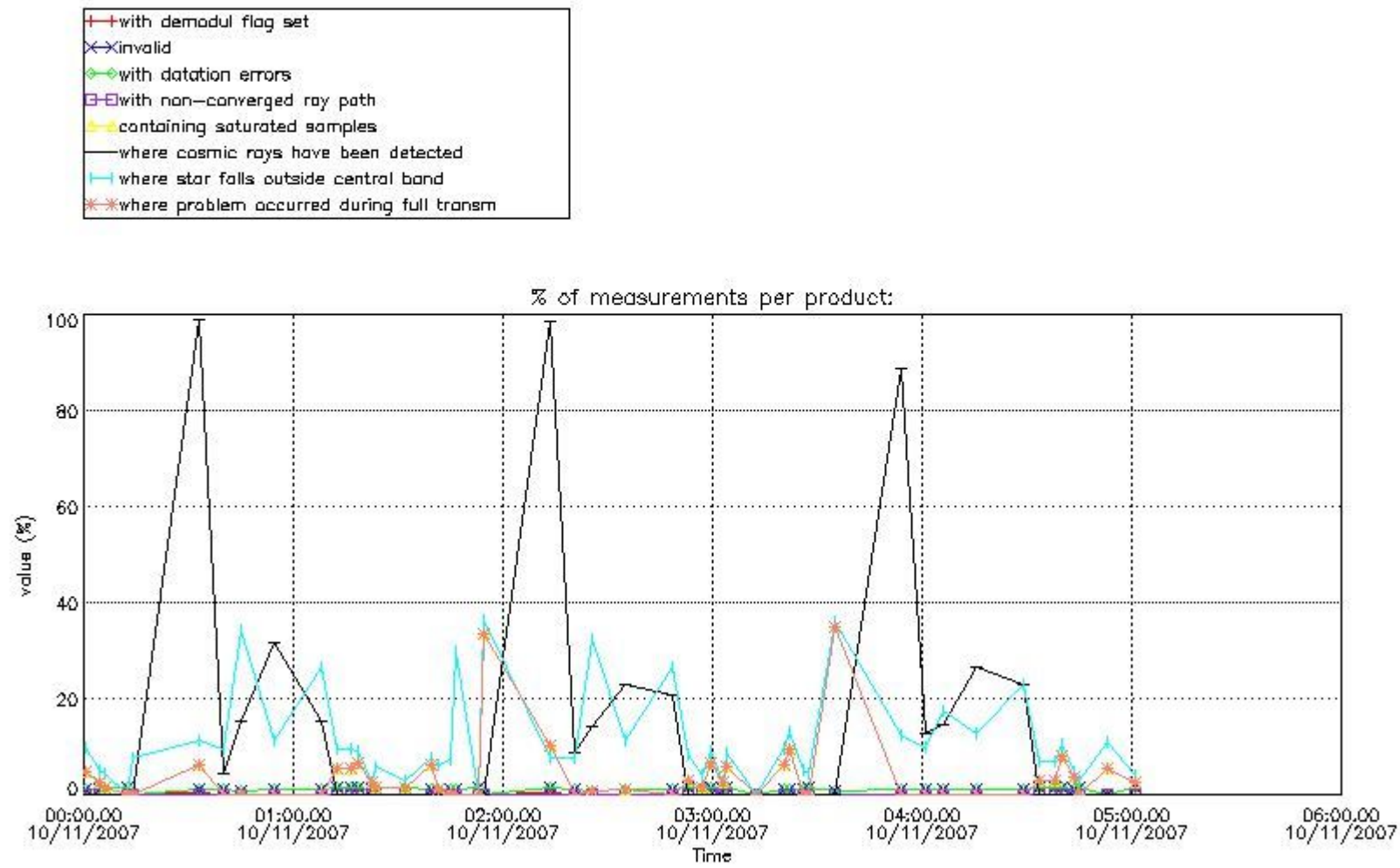
5. Demodulation flag and quality information monitoring

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.

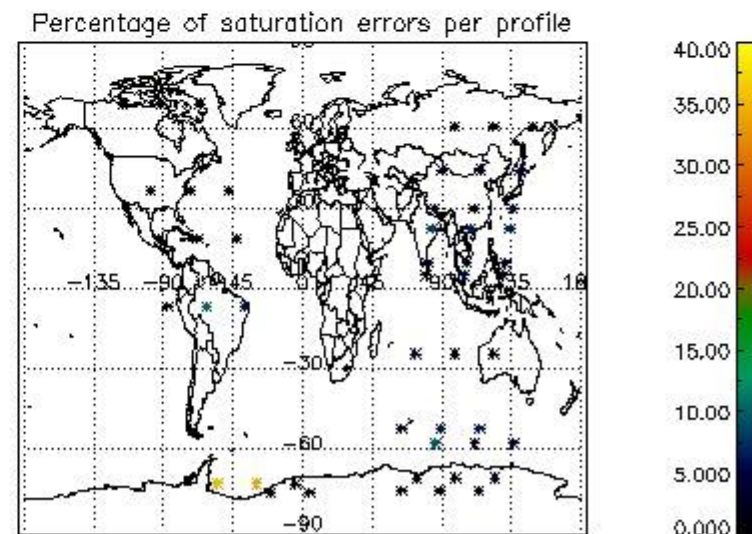
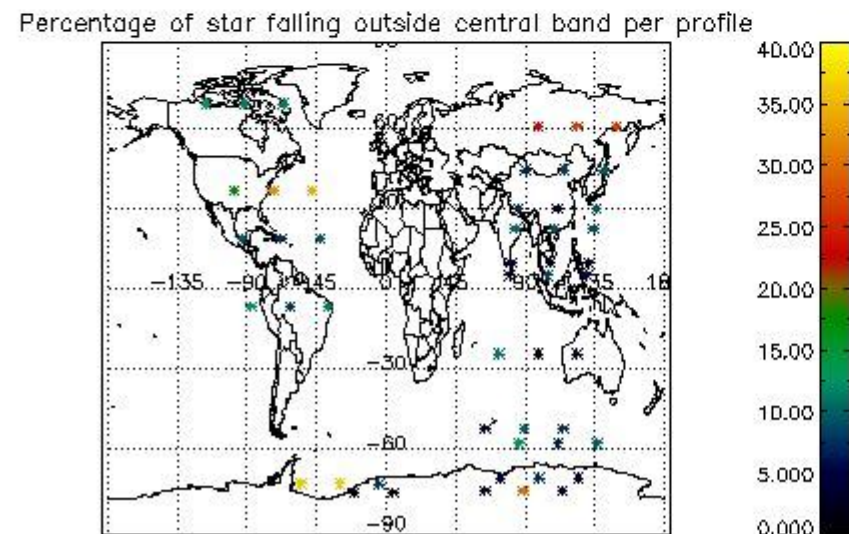
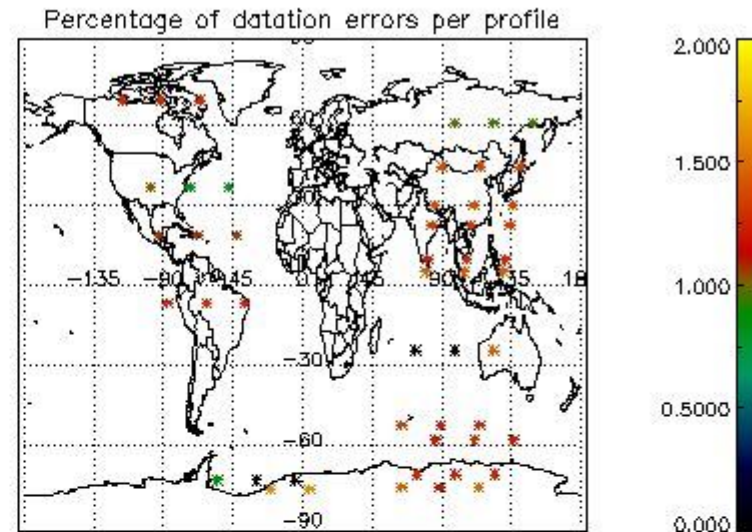
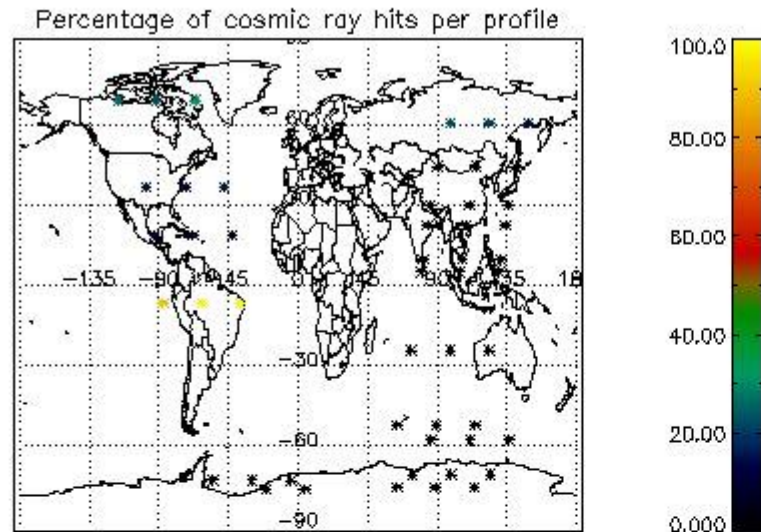
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 24.0000 % |
| 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)



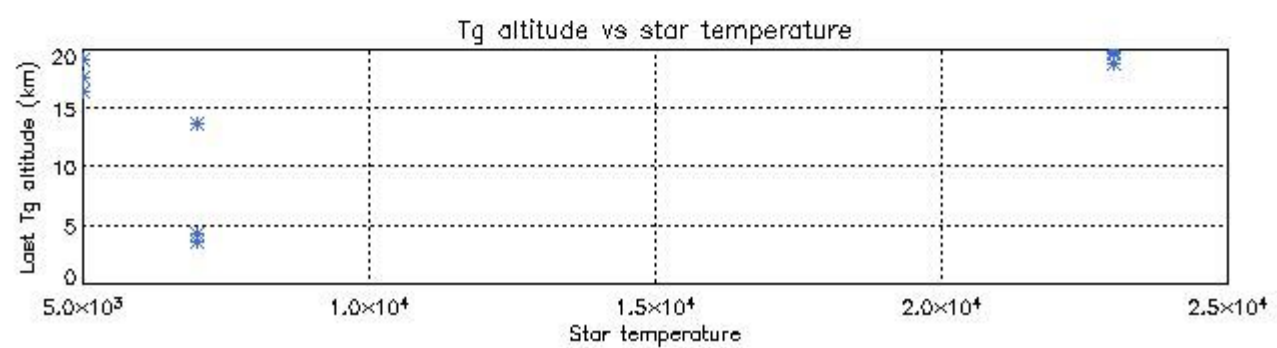
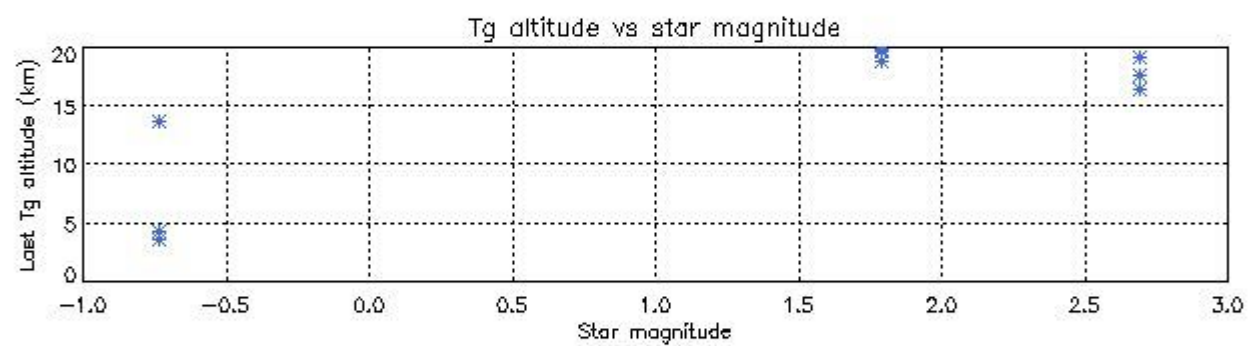
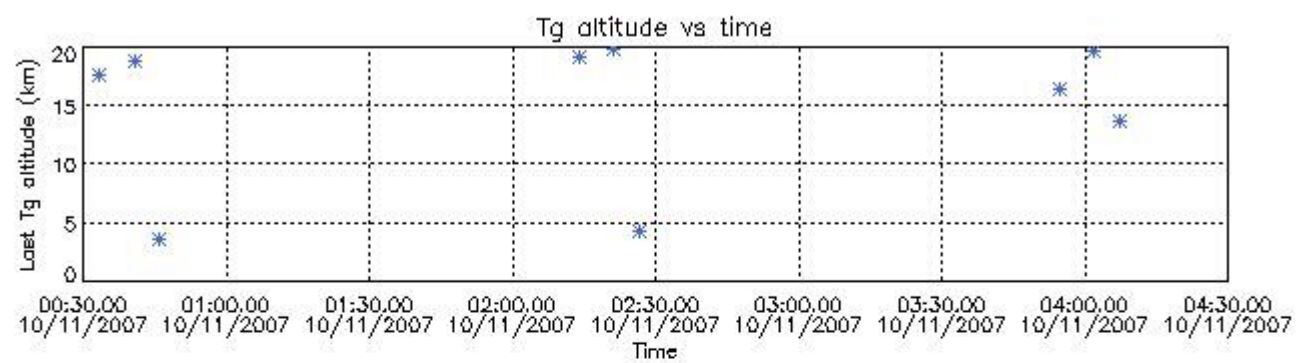
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 14.781 | 21.907 | NaN |
| St. deviation: | 6.4617 | 8.6961 | NaN |
| Maximum: | 19.912 | 49.800 | NaN |
| Minimum: | 3.5309 | 3.7833 | NaN |
| Number of data: | 9.0000 | 35.000 | NaN |

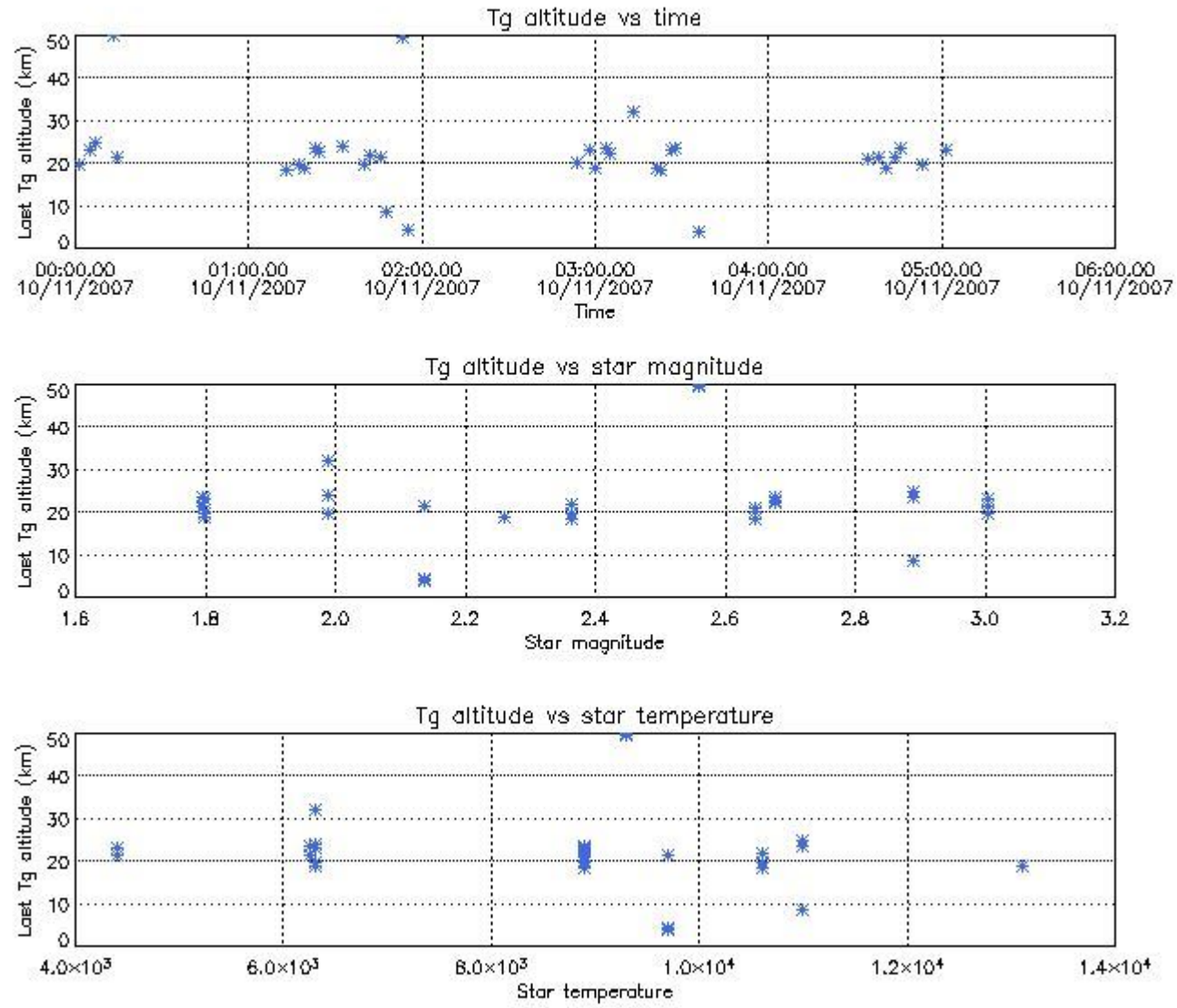
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

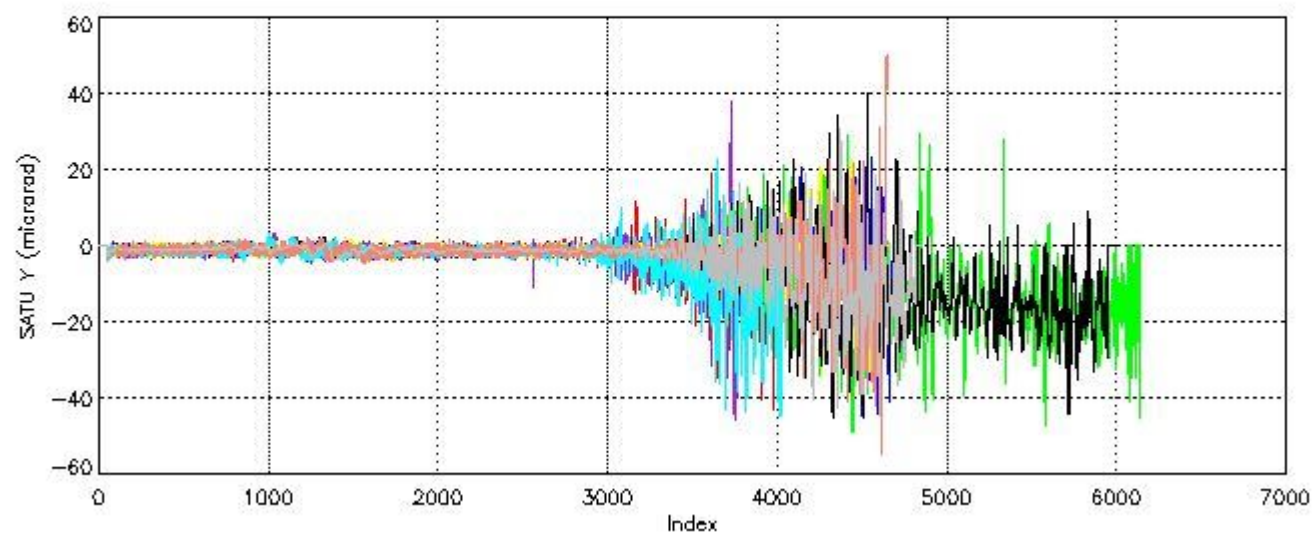
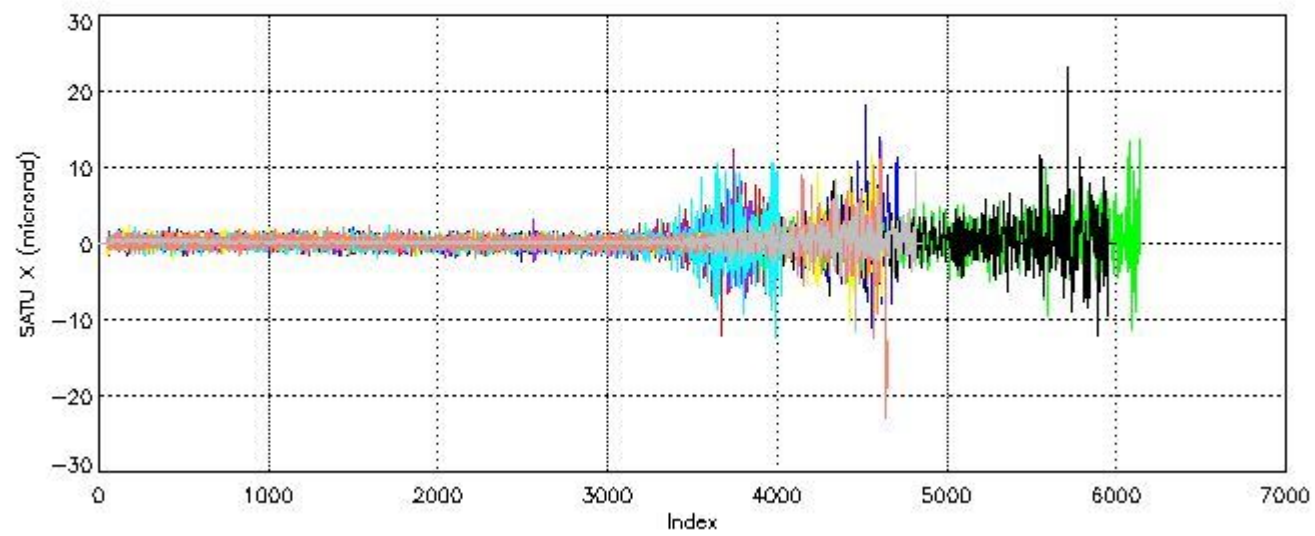


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.21116 | -1.0833 | 0.13351 | -1.2504 |
| St. deviation: | 0.40424 | 0.73528 | 0.87924 | 1.3331 |
| Maximum: | 2.4000 | 1.6000 | 6.1000 | 7.0000 |
| Minimum: | -2.1000 | -4.3000 | -6.2000 | -9.0000 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 9250.0 | 9250.0 | 30850. | 30850. |
|-----------------|--------|--------|--------|--------|

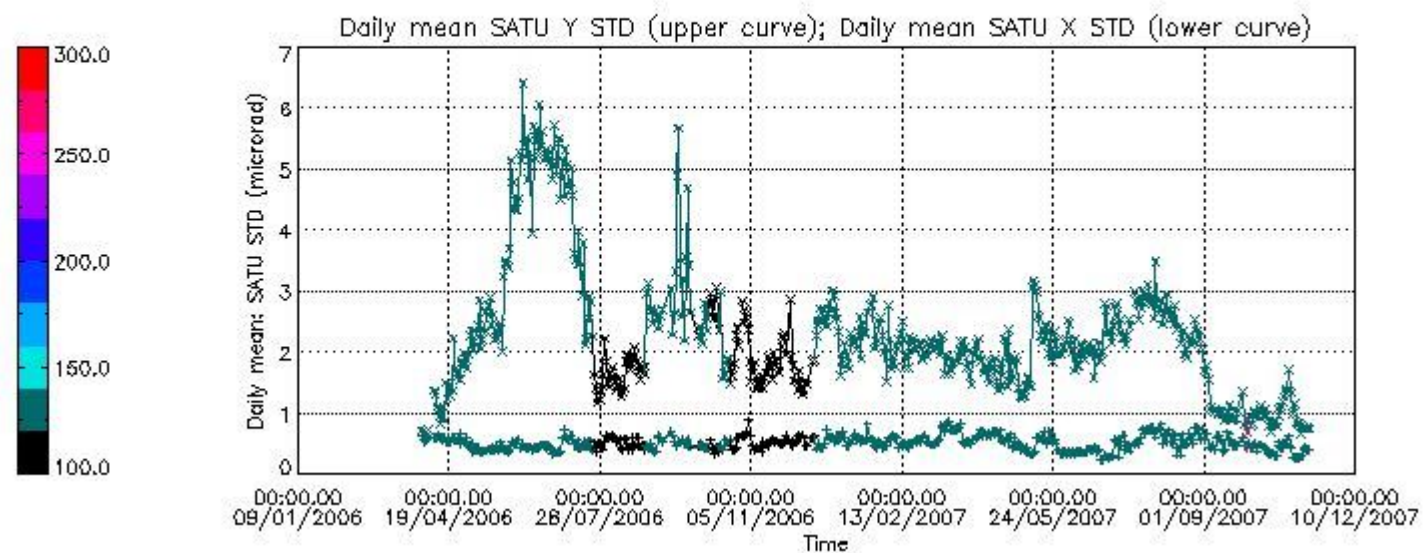
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

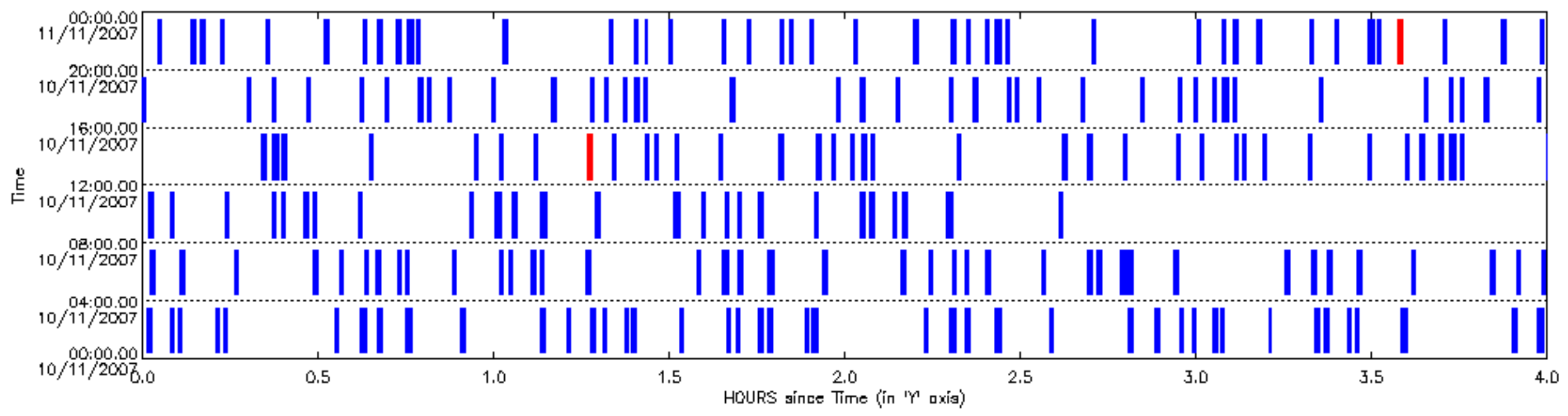
Lower curve: STD of SATU X axis

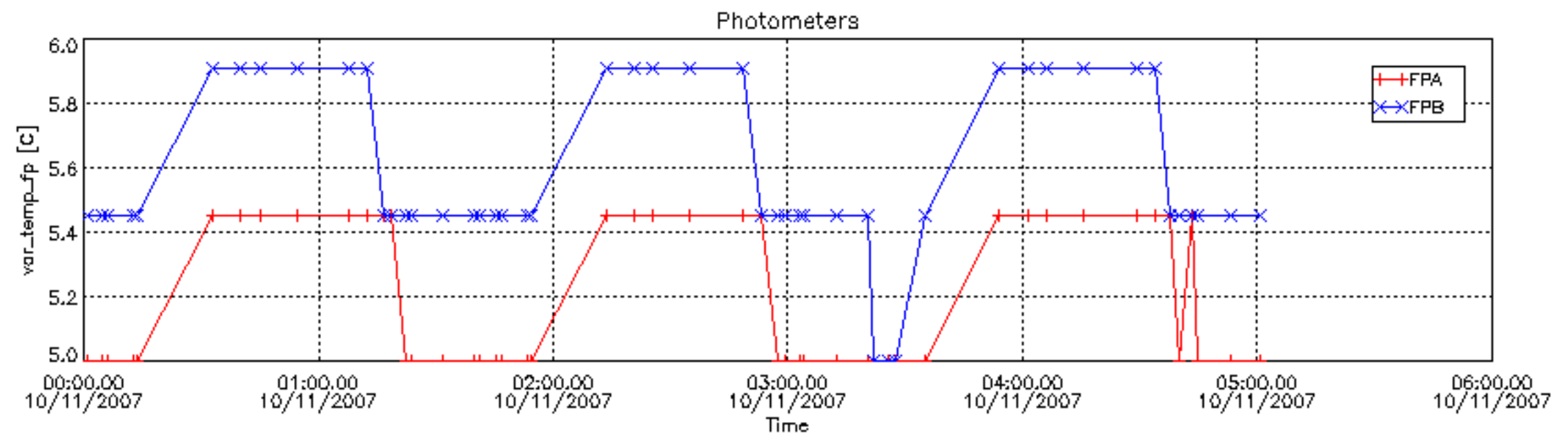
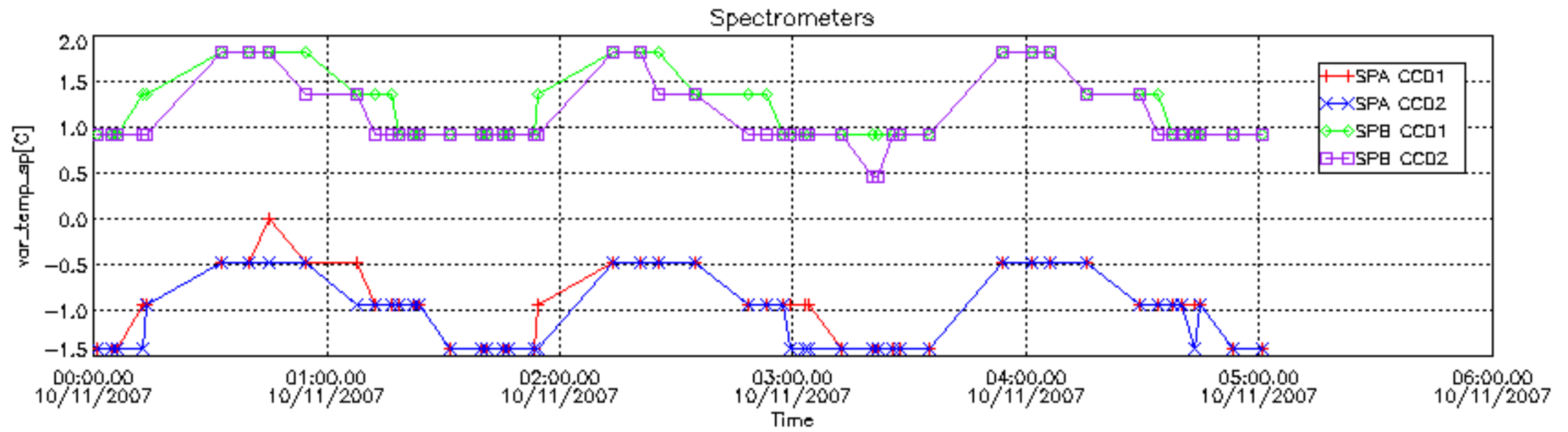


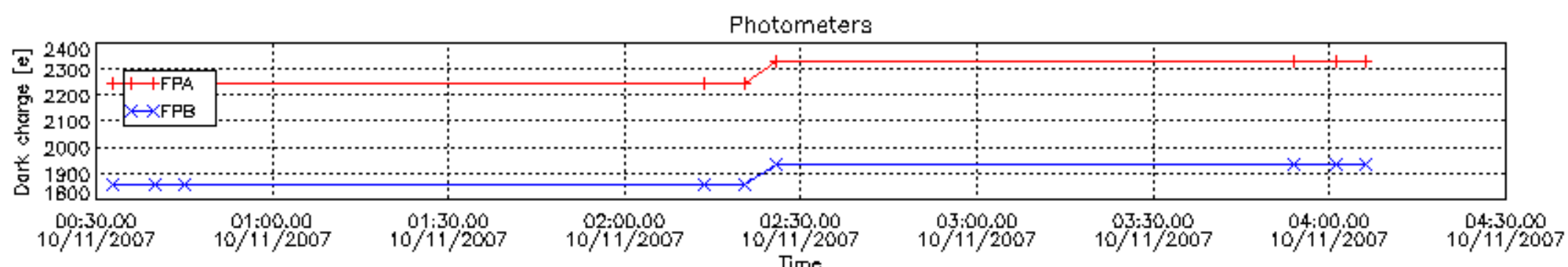
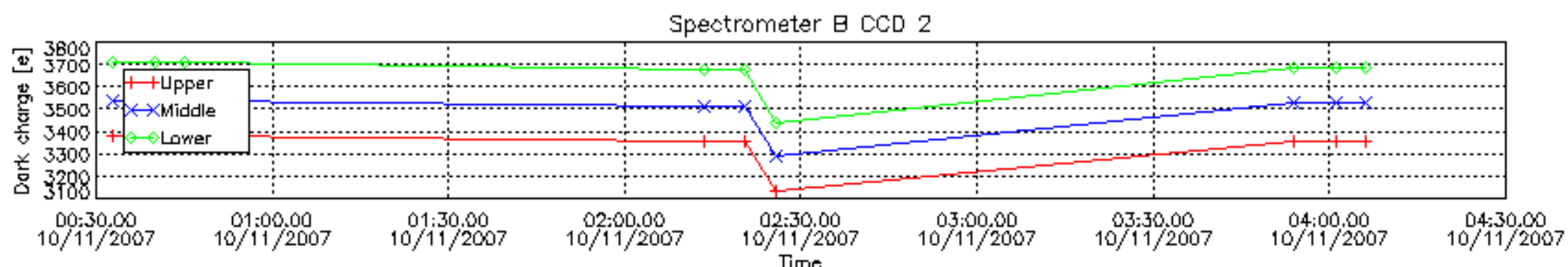
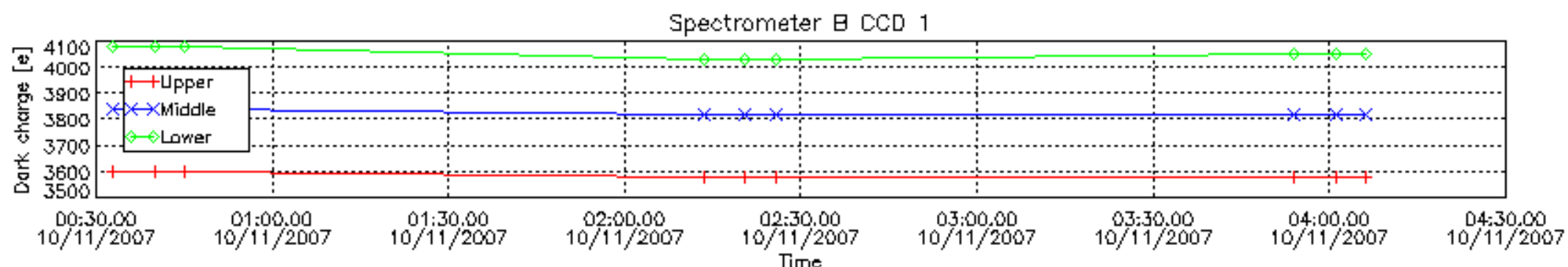
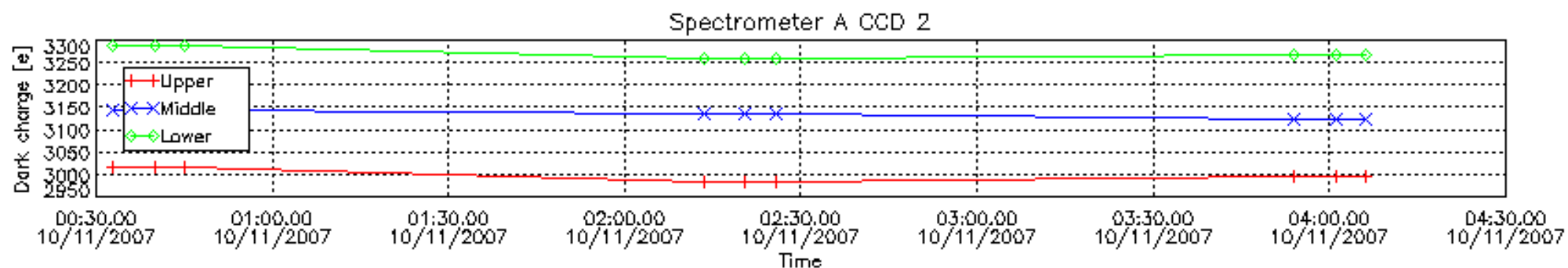
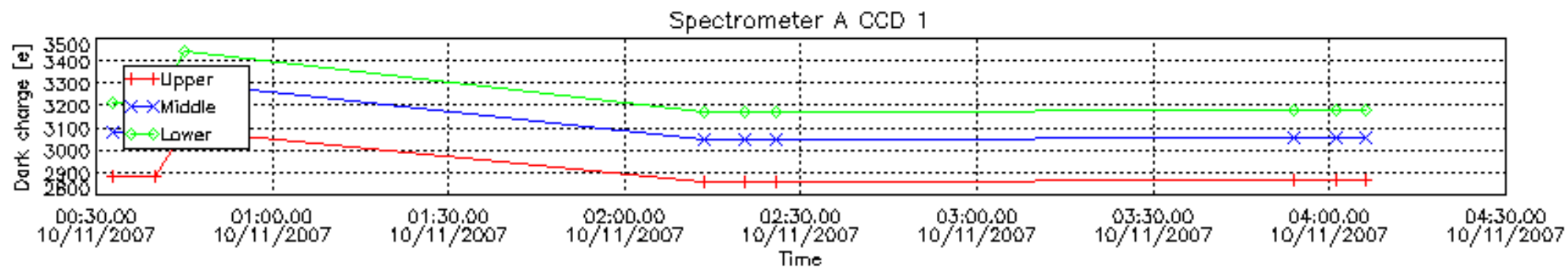
8. Auxiliary Data Files used for the production reported in section 2.4

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.

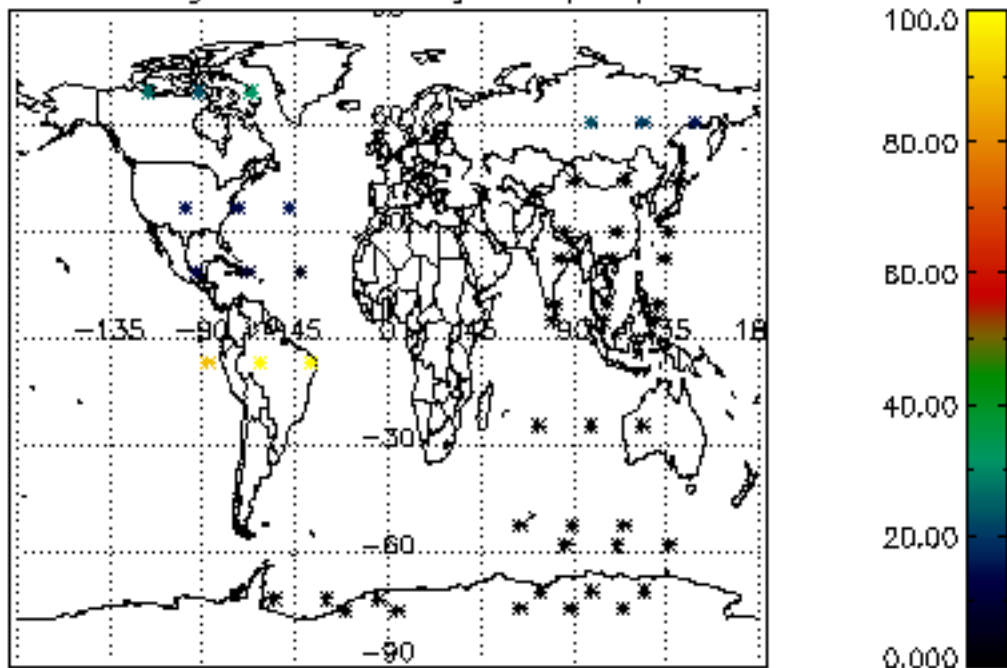
| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 10-NOV-2007 00:00:43 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000 | 1 | 10-NOV-2007 00:00:43 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 10-NOV-2007 00:00:43 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 10-NOV-2007 00:00:43 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 10-NOV-2007 00:00:43 |
| ECMWF_FILE | AUX_ECF_AXNECM20071109_063112_20071109_210000_20071110_090000 | 1 | 10-NOV-2007 00:00:43 |
| ECMWF_FILE | AUX_ECF_AXNECM20071109_183113_20071110_030000_20071110_150000 | 34 | 10-NOV-2007 03:20:17 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 10-NOV-2007 00:00:43 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071109_205409_000060572063_00157_29770_4528.N1 | 1 | 10-NOV-2007 00:00:43 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071109_224025_000057382063_00158_29771_4529.N1 | 6 | 10-NOV-2007 00:32:49 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071110_002122_000054192063_00159_29772_4530.N1 | 23 | 10-NOV-2007 02:13:26 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071110_015700_000041442063_00160_29773_4531.N1 | 34 | 10-NOV-2007 03:20:17 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20071110_031123_000057382063_00161_29774_4532.N1 | 50 | 10-NOV-2007 05:00:53 |



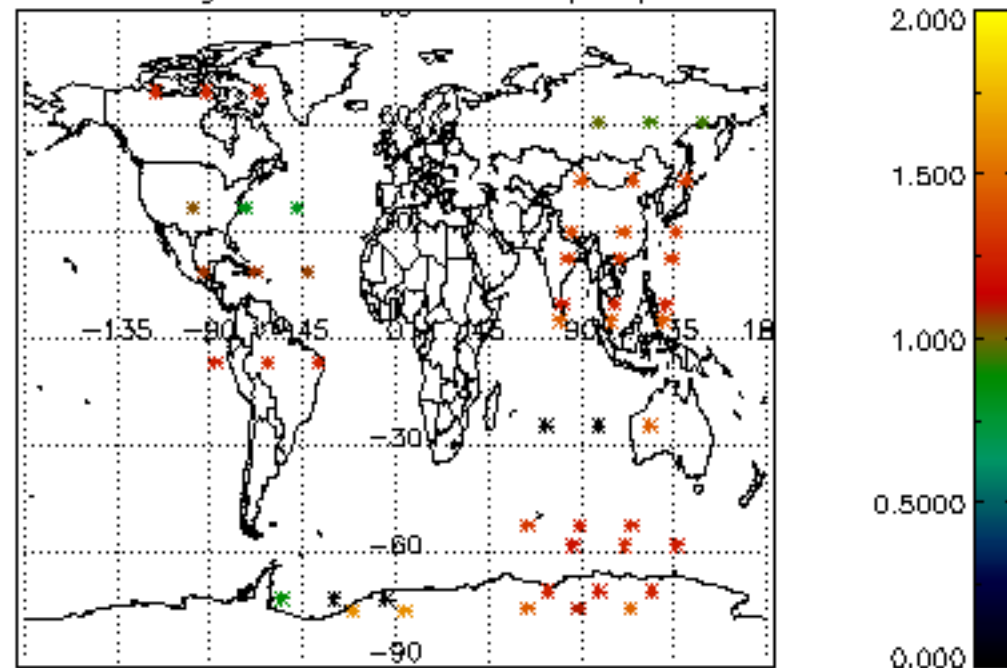




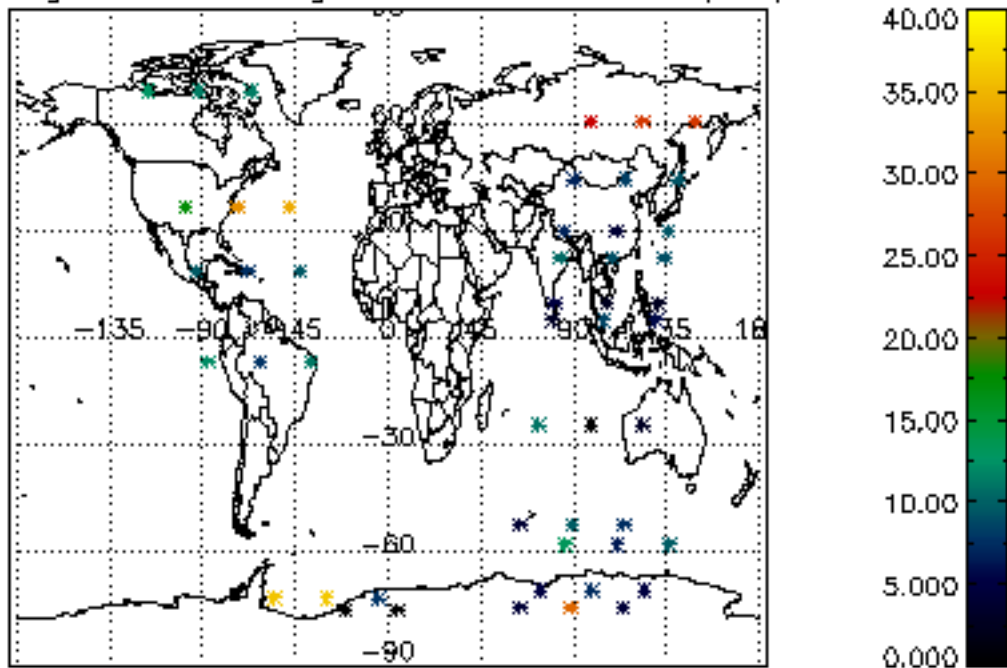
Percentage of cosmic ray hits per profile



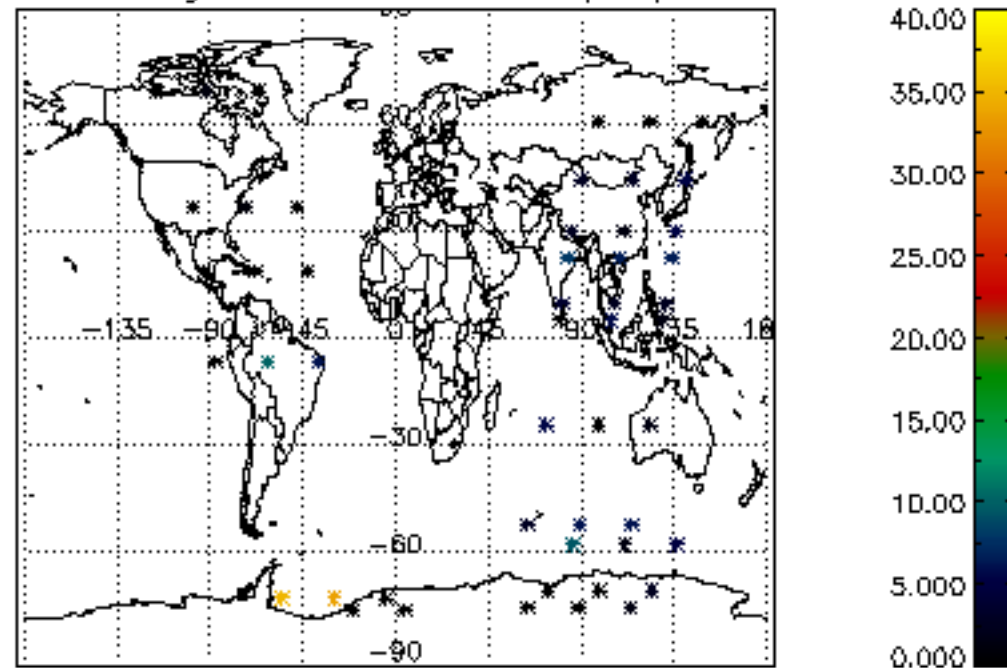
Percentage of datation errors per profile



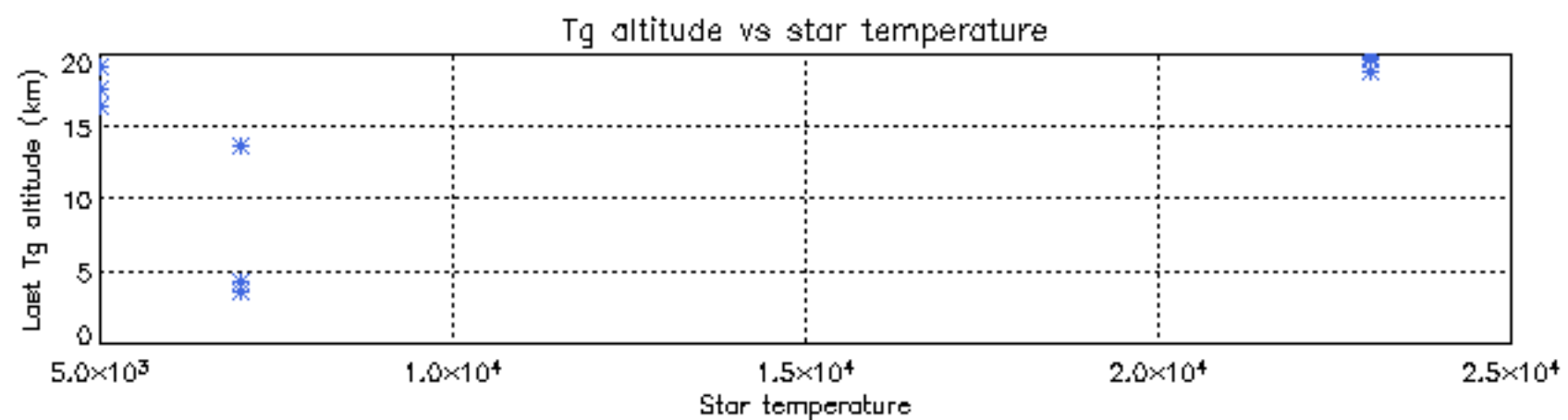
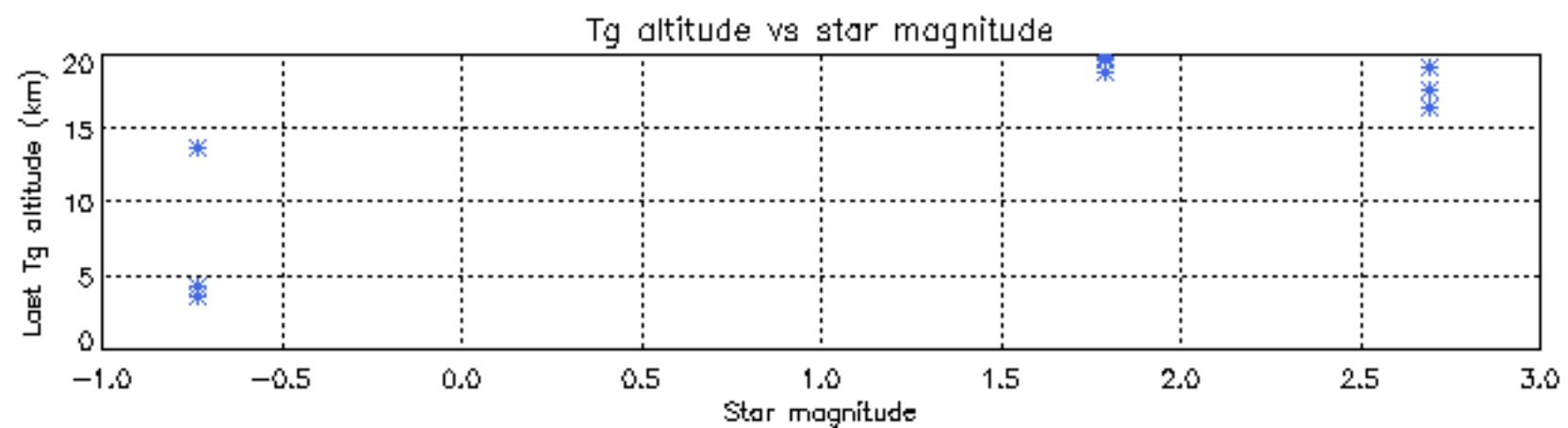
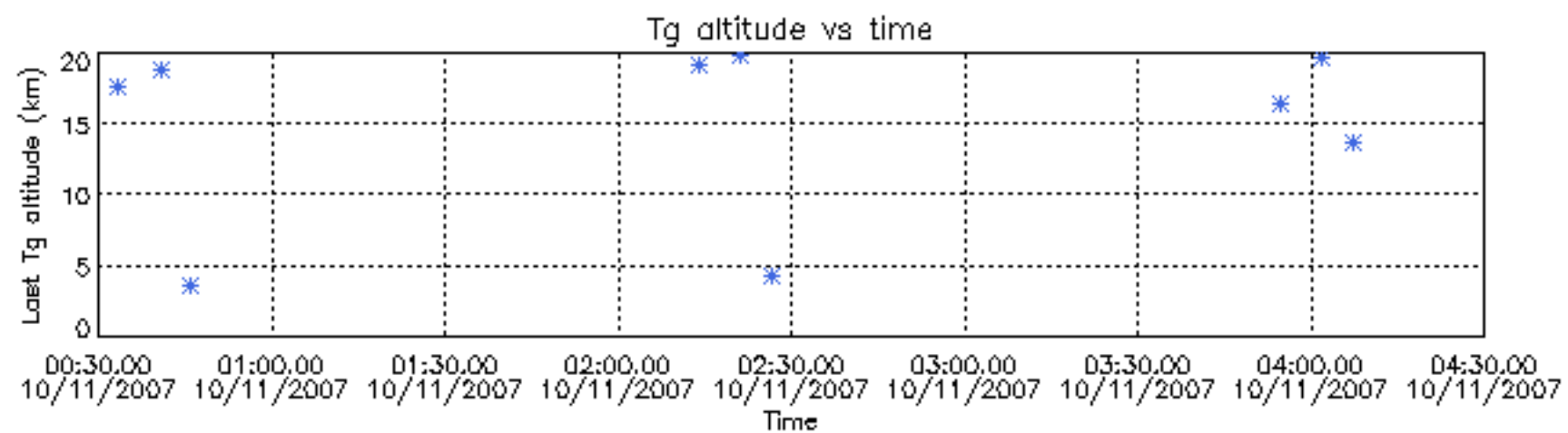
Percentage of star falling outside central band per profile



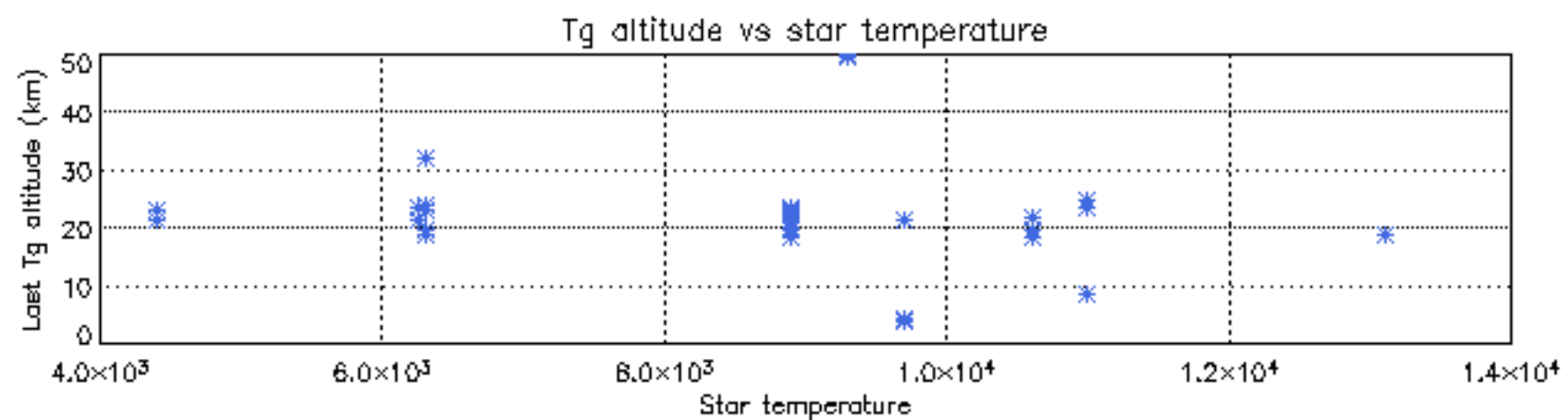
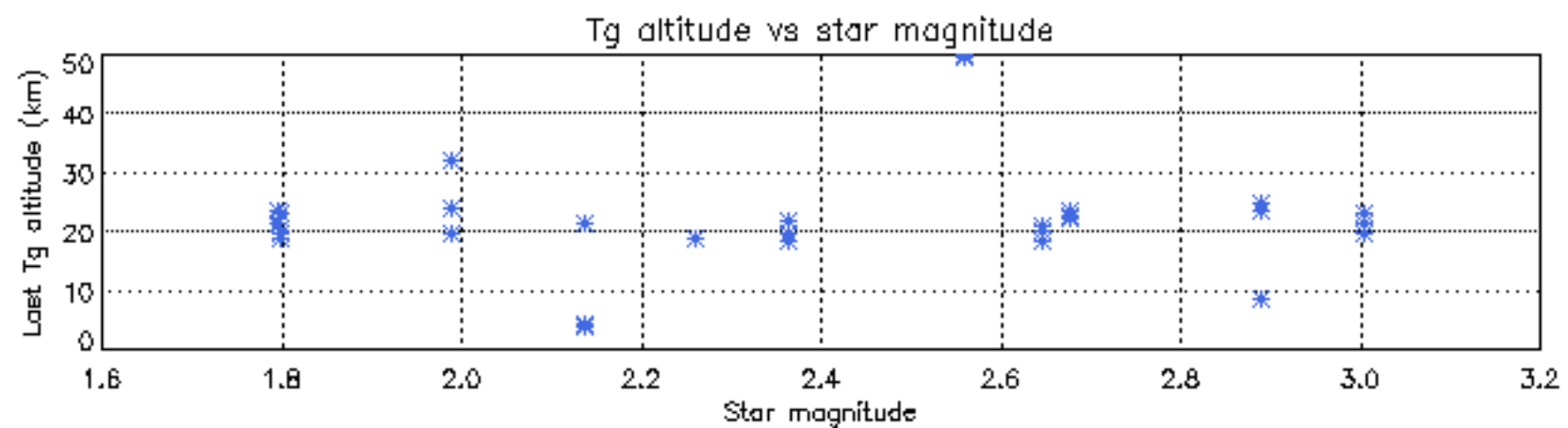
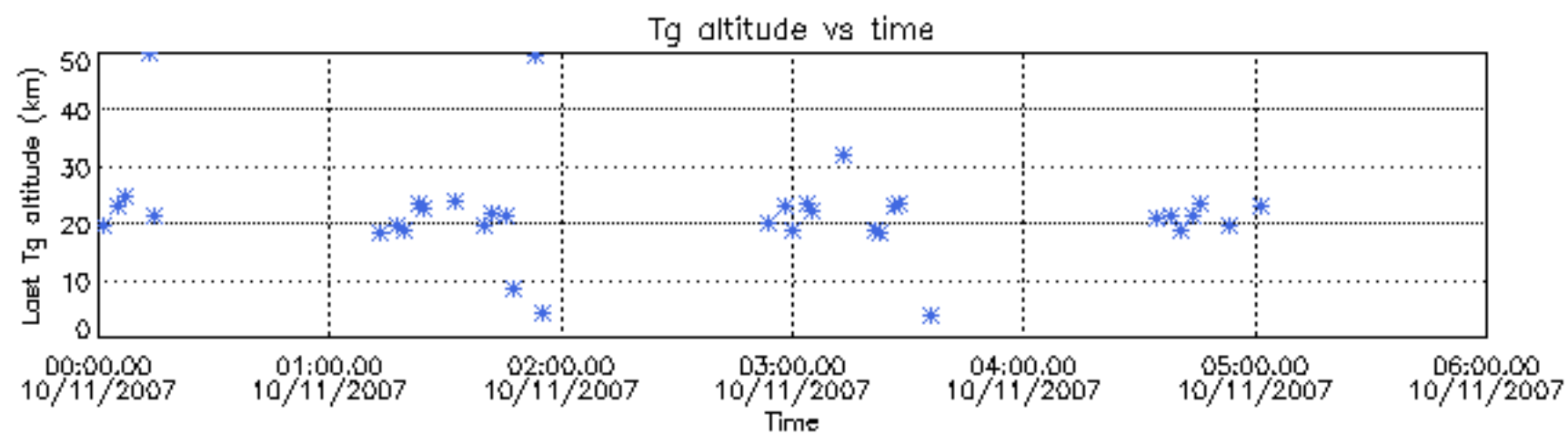
Percentage of saturation errors per profile

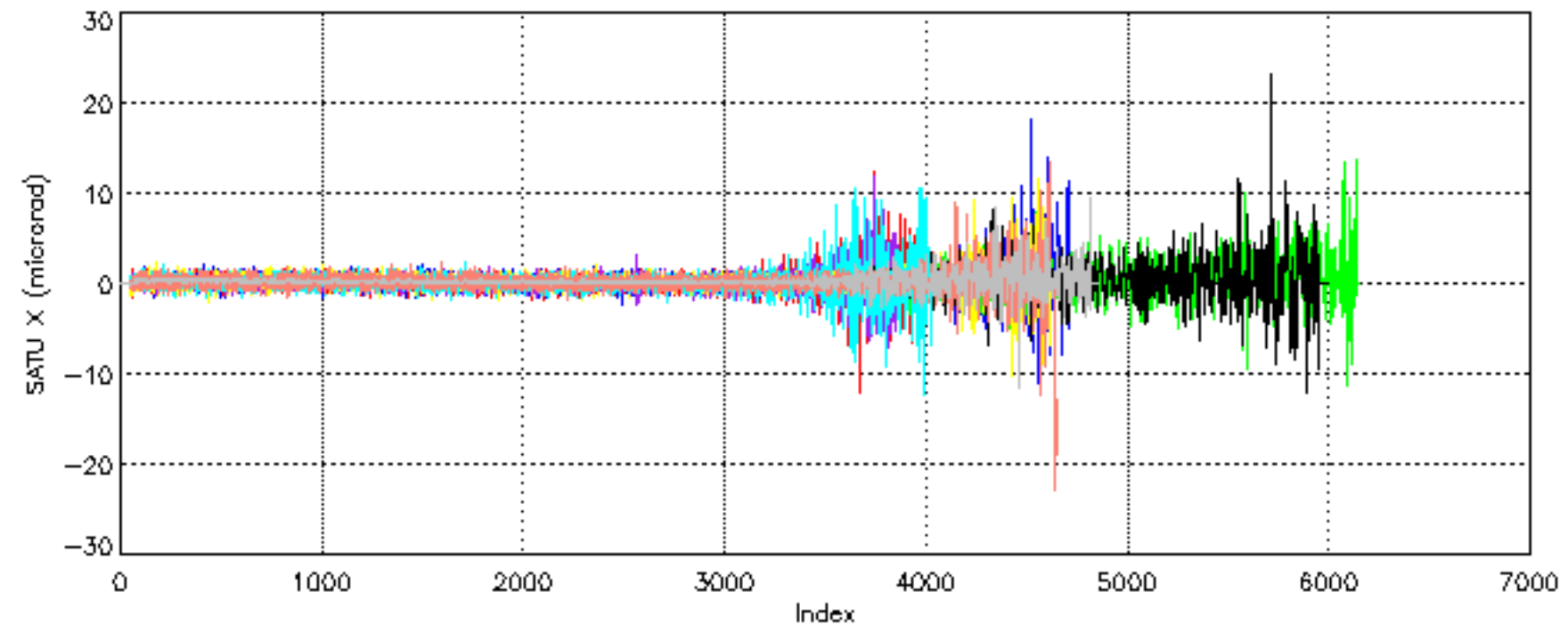


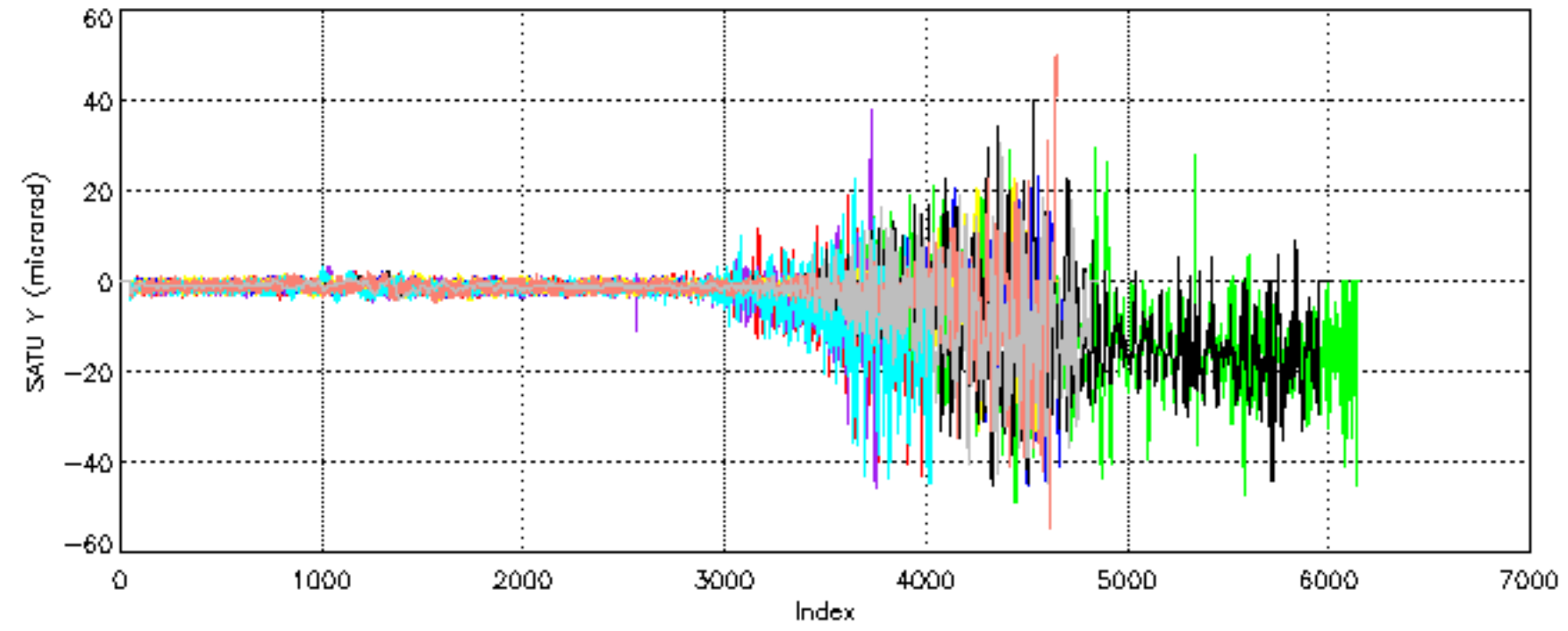
Tangent altitude at which the star is lost

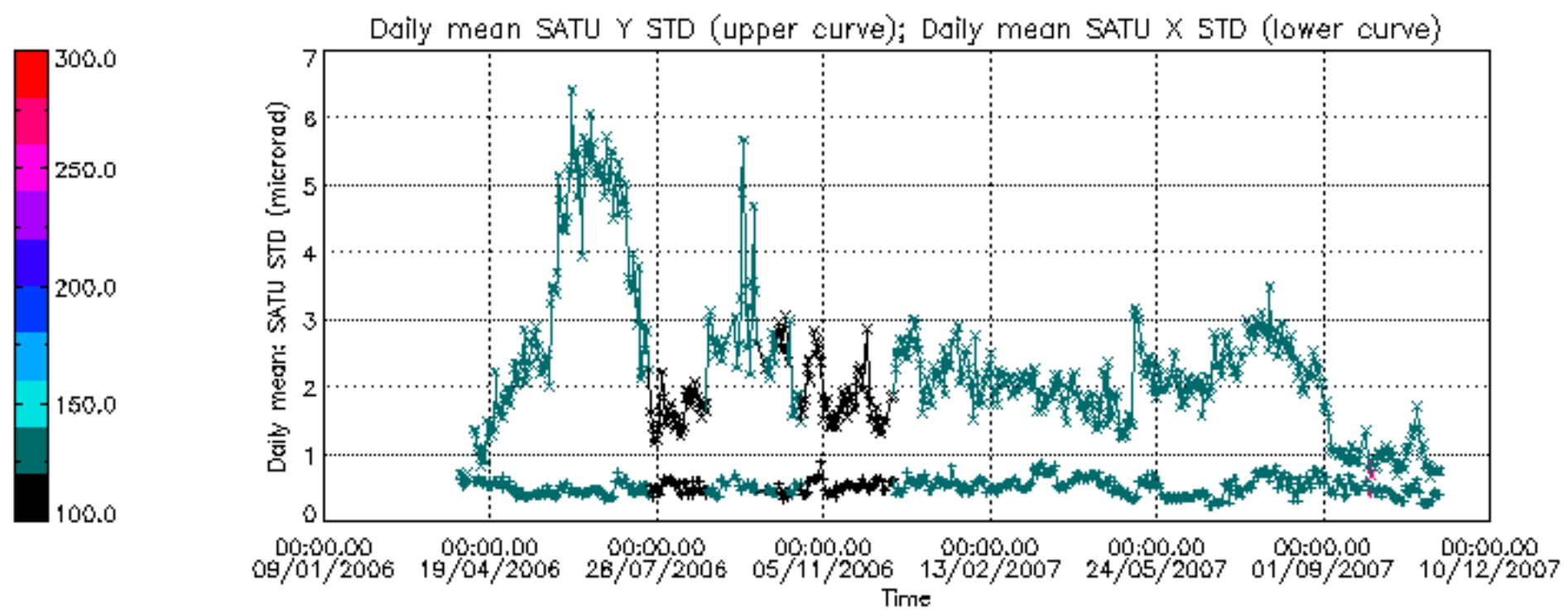


Tangent altitude at which the star is lost









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 3; 212.3; 01-NOV-2007 00:21:02; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29644
 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644
 5; 519.1; 01-NOV-2007 00:26:09; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;29644
 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
 7; 2274.5; 01-NOV-2007 00:55:24; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;29644
 8; 2514.8; 01-NOV-2007 00:59:25; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29644
 9; 2662.9; 01-NOV-2007 01:01:53; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29644
 10; 2867.3; 01-NOV-2007 01:05:17; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29644
 11; 2939.0; 01-NOV-2007 01:06:29; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29644
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 13; 3912.7; 01-NOV-2007 01:22:43; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29644
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 15; 4229.4; 01-NOV-2007 01:27:59; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29644
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 3; 213.0; 01-NOV-2007 02:01:39; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29645
 4; 342.2; 01-NOV-2007 02:03:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29645
 5; 519.9; 01-NOV-2007 02:06:46; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;29645
 6; 1139.3; 01-NOV-2007 02:17:05; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;29645
 7; 2274.5; 01-NOV-2007 02:36:00; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;29645
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 9; 2662.6; 01-NOV-2007 02:42:28; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29645
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 6; 132.7; 01-NOV-2007 03:40:54; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;29646
 7; 213.6; 01-NOV-2007 03:42:15; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;29646
 8; 343.1; 01-NOV-2007 03:44:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29646
 9; 520.8; 01-NOV-2007 03:47:22; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;29646
 10; 1139.7; 01-NOV-2007 03:57:41; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29646
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 5; -22.9; 01-NOV-2007 05:18:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29646
 6; 133.2; 01-NOV-2007 05:21:31; Dark ; 45.0; 46; Del Vel ; 1.95; 10600;occ; 90; 0;29647
 7; 214.2; 01-NOV-2007 05:22:52; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;29647
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 3; 2514.4; 01-NOV-2007 21:06:36; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29656

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6; 2938.7; 01-NOV-2007 21:13:40; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29656
7; 3423.7; 01-NOV-2007 21:21:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29656
8; 3911.5; 01-NOV-2007 21:29:53; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;29656
9; 4008.4; 01-NOV-2007 21:31:29; Bright; 56.0; 82; 48Bet UMA ; 2.37; 10600;occ; 112; 0;29656
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3; 2661.8; 01-NOV-2007 07:44:15; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29648
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| 4; | 354.4; | 01-NOV-2007 | 23:51:47; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 29658 |
| 5; | 529.9; | 01-NOV-2007 | 23:54:43; | Dark | ; | 49.5; | 2; | Alp Car | ; | -0.74; | 7000;occ; | 99; | 0; | 29658 |
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2; 2520.3; 11-NOV-2007 09:08:07; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29792
3; 2633.4; 11-NOV-2007 09:10:00; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29792
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5; 3422.8; 11-NOV-2007 09:23:09; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29792
6; 3675.5; 11-NOV-2007 09:27:22; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29792

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9; 4321.1; 11-NOV-2007 09:38:08; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;29792
10; 4778.9; 11-NOV-2007 09:45:45; Bright; 32.5; 138; 47Eps Vir ; 2.83; 4700;occ; 65; 0;29792
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13; 5915.3; 11-NOV-2007 10:04:42; Dark ; 42.5; 26; Gam Cru ; 1.62; 2900;occ; 85; 0;29792
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4; 2878.4; 11-NOV-2007 10:54:41; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29793
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6; 3675.6; 11-NOV-2007 11:07:58; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29793
7; 4018.9; 11-NOV-2007 11:13:41; Bright; 35.0; 32; 77Eps UMA ; 1.76; 11000;occ; 70; 0;29793
8; 4110.8; 11-NOV-2007 11:15:13; Bright; 33.5; 39; 85Eta UMA ; 1.85; 24000;occ; 67; 0;29793
9; 4321.1; 11-NOV-2007 11:18:44; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;29793
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3; 2633.2; 11-NOV-2007 12:31:12; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;29794
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6; 3675.8; 11-NOV-2007 12:48:34; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29794
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9; 4321.3; 11-NOV-2007 12:59:20; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;29794
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6; 3676.1; 11-NOV-2007 14:29:10; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29795
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13; 5778.2; 11-NOV-2007 15:04:12; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;29795
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16; 6231.1; 11-NOV-2007 15:11:45; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;29795
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3; 2633.0; 11-NOV-2007 15:52:23; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29796


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6; 3676.1; 11-NOV-2007 16:09:46; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29796
7; 4019.1; 11-NOV-2007 16:15:29; Bright; 37.0; 32; 77Eps UMa ; 1.76; 11000;occ; 74; 0;29796
8; 4111.5; 11-NOV-2007 16:17:02; Bright; 46.0; 39; 85Eta UMa ; 1.85; 24000;occ; 92; 0;29796
9; 4321.6; 11-NOV-2007 16:20:32; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;29796
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5; 2879.0; 11-NOV-2007 17:37:05; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29797
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8; 4019.1; 11-NOV-2007 17:56:05; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;29797
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6; 3422.7; 11-NOV-2007 19:26:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29798
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9; 4111.8; 11-NOV-2007 19:38:14; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;29798
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8; 2508.5; 12-NOV-2007 01:53:54; Bright; 25.0; 173; 4Bet Tri ; 3.00; 8900;occ; 50; 0;29802
9; 2632.3; 12-NOV-2007 01:55:58; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29802
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18; 2818.8; 30-NOV-2007 22:40:42; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;30072
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22; 4138.6; 30-NOV-2007 23:02:42; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;30072
23; 4312.3; 30-NOV-2007 23:05:36; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;30072
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