

GOMOS Daily Report 11-JUN-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 | 13JUN2007 05:32:46 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (11JUN2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (12JUN2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 25 |
| Nb of prods with errors | 0 |

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

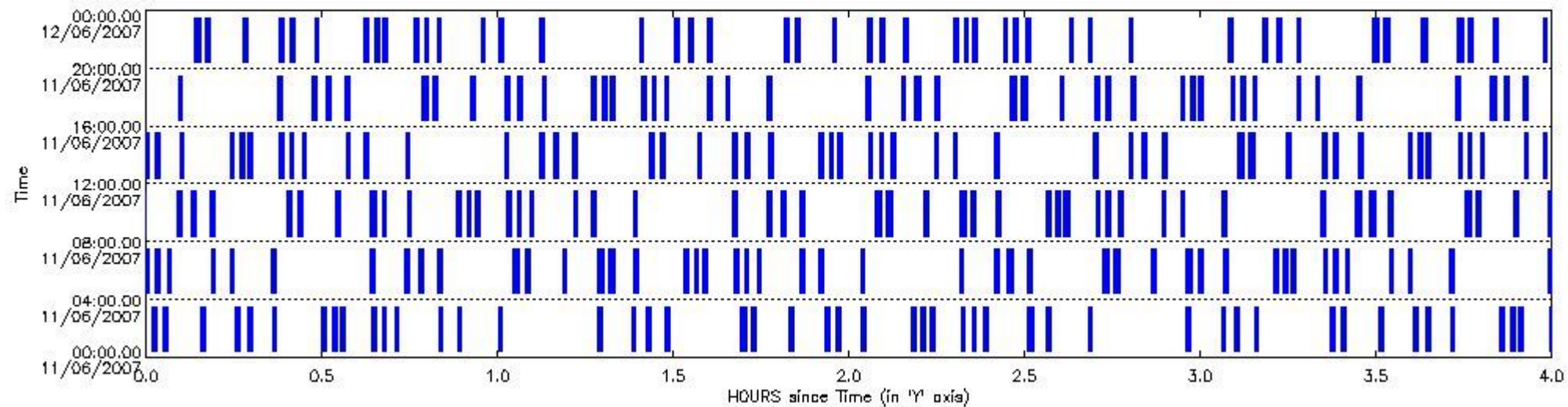
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

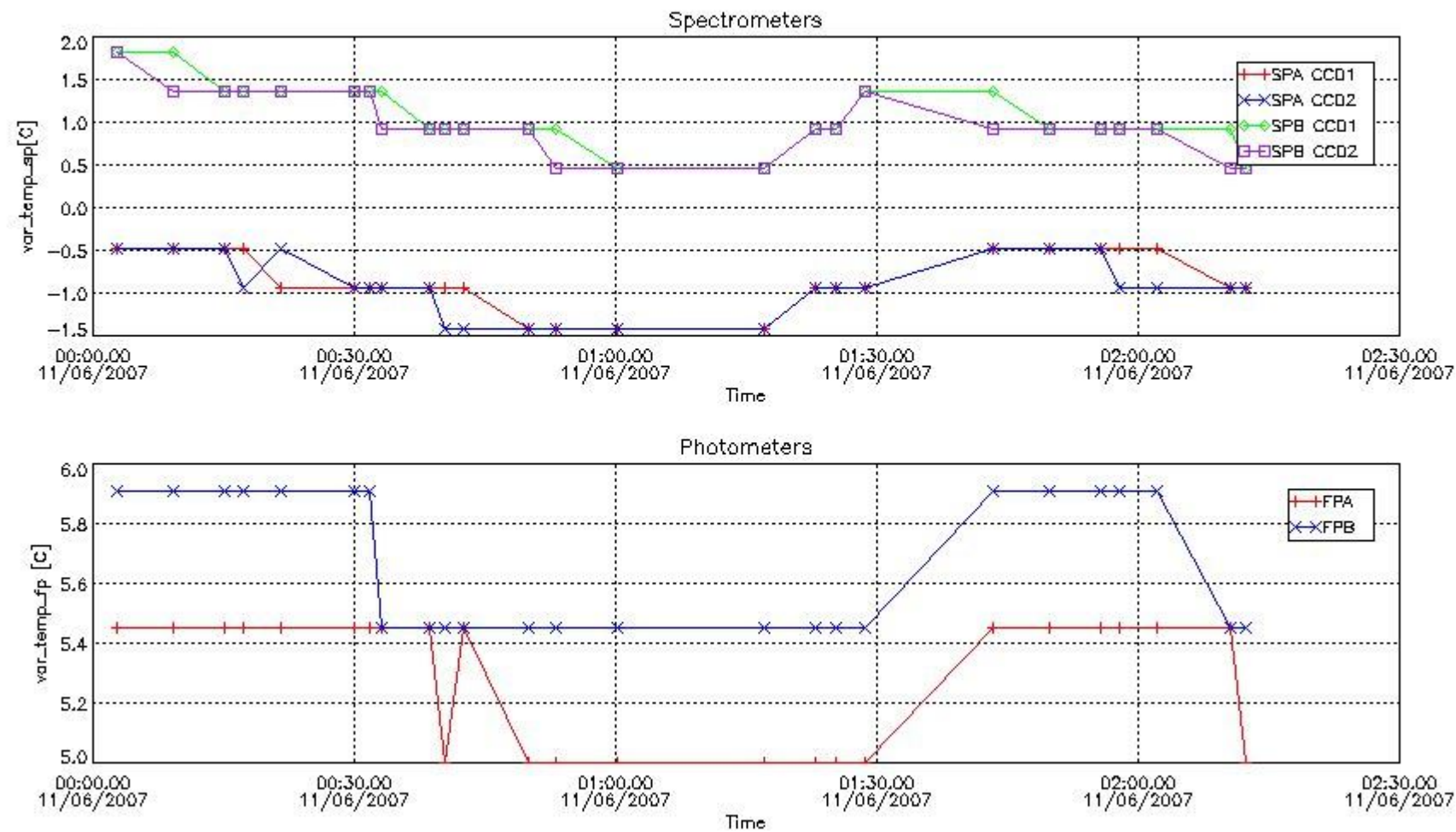
No missing products.

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_1PNPDE20070611_000244_000000532058_00488_27596_3723.N1 | 11-JUN-2007 00:02:44 | Dark | 52.500 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 105 | 27596 | No |
| 2 | GOM_TRA_1PNPDE20070611_000913_000000452058_00488_27596_3724.N1 | 11-JUN-2007 00:09:13 | Dark | 44.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 89 | 27596 | No |
| 3 | GOM_TRA_1PNPDE20070611_001509_000000482058_00489_27597_3725.N1 | 11-JUN-2007 00:15:09 | Dark | 47.500 | 63 | Bet Gru | 2.1500 | 2800.0 | 95 | 27597 | No |
| 4 | GOM_TRA_1PNPDE20070611_001711_000000482058_00489_27597_3726.N1 | 11-JUN-2007 00:17:11 | Dark | 48.000 | 31 | Alp Gru | 1.7340 | 15200. | 96 | 27597 | No |
| 5 | GOM_TRA_1PNPDE20070611_002128_000000412058_00489_27597_3727.N1 | 11-JUN-2007 00:21:28 | Straylight | 41.000 | 45 | Alp Pav | 1.9400 | 26000. | 82 | 27597 | No |
| 6 | GOM_TRA_1PNPDE20070611_003000_000000452058_00489_27597_3728.N1 | 11-JUN-2007 00:30:00 | Straylight | 44.500 | 40 | The Sco | 1.8590 | 7100.0 | 89 | 27597 | No |
| 7 | GOM_TRA_1PNPDE20070611_003144_000000442058_00489_27597_3729.N1 | 11-JUN-2007 00:31:44 | Twilight_stray | 44.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 88 | 27597 | No |
| 8 | GOM_TRA_1PNPDE20070611_003306_000000492058_00489_27597_3730.N1 | 11-JUN-2007 00:33:06 | Twilight_stray | 49.000 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 98 | 27597 | No |
| 9 | GOM_TRA_1PNPDE20070611_003834_000000402058_00489_27597_3731.N1 | 11-JUN-2007 00:38:34 | Bright | 39.500 | 86 | 35Eta Oph | 2.4300 | 10200. | 79 | 27597 | No |
| 10 | GOM_TRA_1PNPDE20070611_004020_000000382058_00489_27597_3732.N1 | 11-JUN-2007 00:40:20 | Bright | 37.500 | 98 | 13Zet Oph | 2.5710 | 30000. | 75 | 27597 | No |
| 11 | GOM_TRA_1PNPDE20070611_004227_000000372058_00489_27597_3733.N1 | 11-JUN-2007 00:42:27 | Bright | 37.000 | 120 | 1Del Oph | 2.7340 | 3200.0 | 74 | 27597 | No |
| 12 | GOM_TRA_1PNPDE20070611_004956_000000382058_00489_27597_3734.N1 | 11-JUN-2007 00:49:56 | Bright | 38.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 76 | 27597 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|--------|--------|-----|-------|----|
| 13 | GOM_TRA_1PNPDE20070611_005305_000000372058_00489_27597_3735.N1 | 11-JUN-2007 00:53:05 | Bright | 36.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 73 | 27597 | No |
| 14 | GOM_TRA_1PNPDE20070611_010010_000000382058_00489_27597_3736.N1 | 11-JUN-2007 01:00:10 | Bright | 37.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 75 | 27597 | No |
| 15 | GOM_TRA_1PNPDE20070611_011700_000000582058_00489_27597_3737.N1 | 11-JUN-2007 01:17:00 | Bright | 58.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 116 | 27597 | No |
| 16 | GOM_TRA_1PNPDE20070611_012256_000000392058_00489_27597_3738.N1 | 11-JUN-2007 01:22:56 | Bright | 38.500 | 73 | 57Gam1And | 2.2600 | 13100. | 77 | 27597 | No |
| 17 | GOM_TRA_1PNPDE20070611_012515_000000542058_00489_27597_3739.N1 | 11-JUN-2007 01:25:15 | Twilight | 54.000 | 53 | 43Bet And | 2.0480 | 3300.0 | 108 | 27597 | No |
| 18 | GOM_TRA_1PNPDE20070611_012834_000000442058_00489_27597_3740.N1 | 11-JUN-2007 01:28:34 | Twilight | 43.500 | 50 | 13Alp Ari | 2.0070 | 4250.0 | 87 | 27597 | No |
| 19 | GOM_TRA_1PNPDE20070611_014321_000000482058_00489_27597_3032.N1 | 11-JUN-2007 01:43:21 | Dark | 48.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 96 | 27597 | No |
| 20 | GOM_TRA_1PNPDE20070611_014949_000000422058_00489_27597_3033.N1 | 11-JUN-2007 01:49:49 | Dark | 42.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 84 | 27597 | No |
| 21 | GOM_TRA_1PNPDE20070611_015546_000000522058_00490_27598_3034.N1 | 11-JUN-2007 01:55:46 | Dark | 51.500 | 63 | Bet Gru | 2.1500 | 2800.0 | 103 | 27598 | No |
| 22 | GOM_TRA_1PNPDE20070611_015747_000000542058_00490_27598_2264.N1 | 11-JUN-2007 01:57:47 | Dark | 54.000 | 31 | Alp Gru | 1.7340 | 15200. | 108 | 27598 | No |
| 23 | GOM_TRA_1PNPDE20070611_020205_000000422058_00490_27598_3036.N1 | 11-JUN-2007 02:02:05 | Straylight | 41.500 | 45 | Alp Pav | 1.9400 | 26000. | 83 | 27598 | No |
| 24 | GOM_TRA_1PNPDE20070611_021036_000000452058_00490_27598_3037.N1 | 11-JUN-2007 02:10:36 | Straylight | 45.000 | 40 | The Sco | 1.8590 | 7100.0 | 90 | 27598 | No |
| 25 | GOM_TRA_1PNPDE20070611_021220_000000442058_00490_27598_3038.N1 | 11-JUN-2007 02:12:20 | Twilight | 44.000 | 25 | 35Lam Sco | 1.6200 | 28000. | 88 | 27598 | No |

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



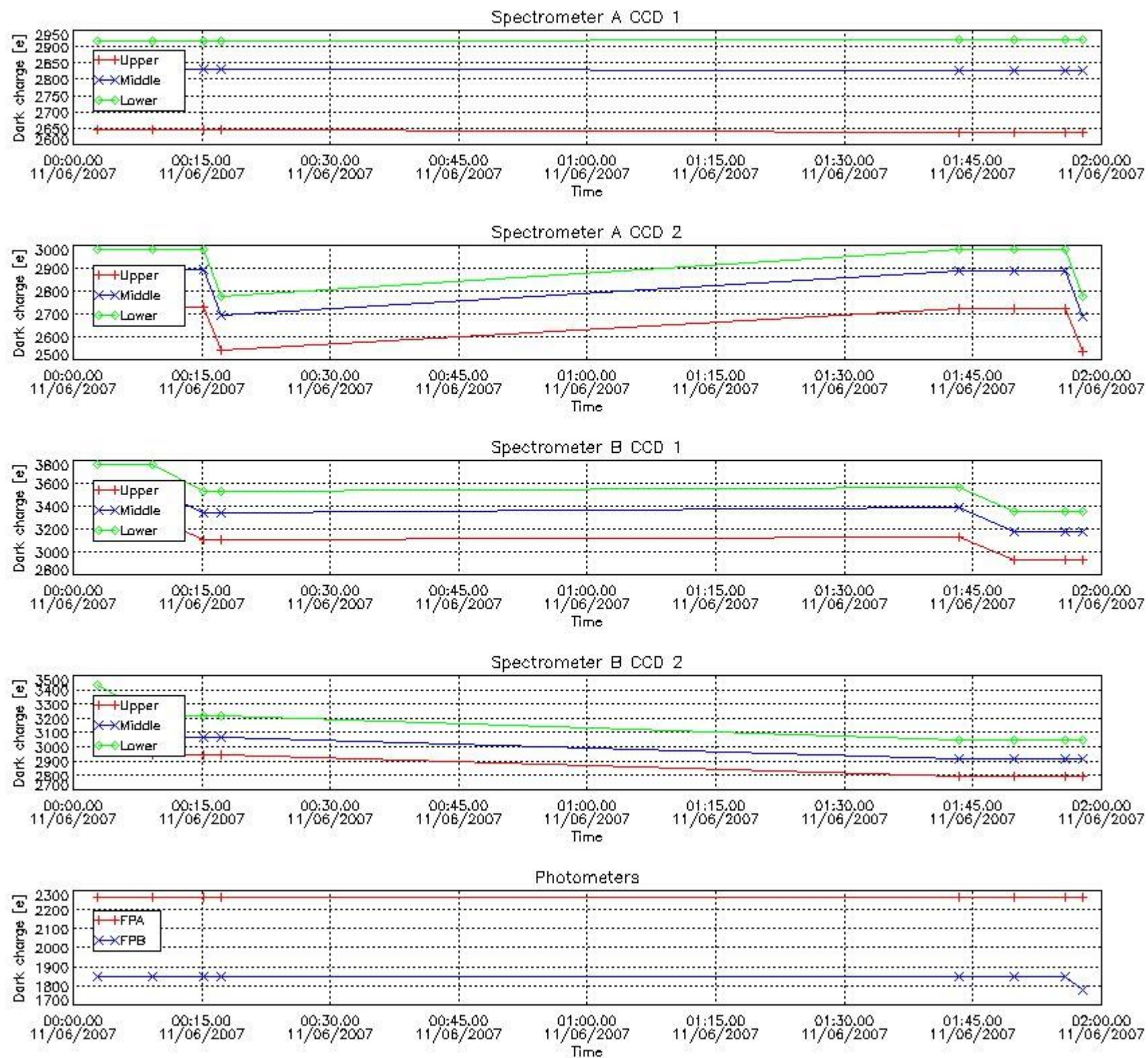
4. Overview of dark signal processing per product

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



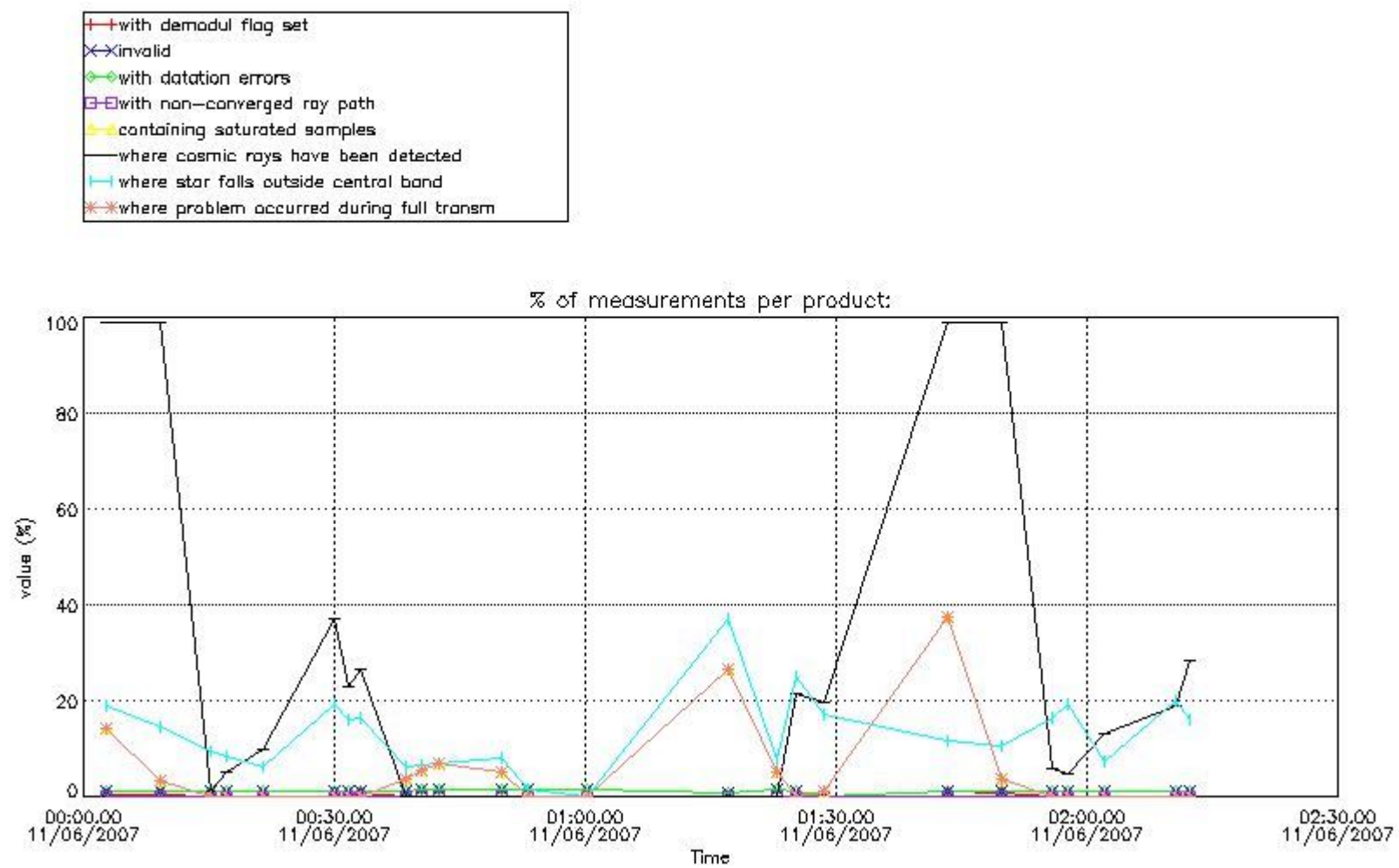
5. Demodulation flag and quality information monitoring

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.

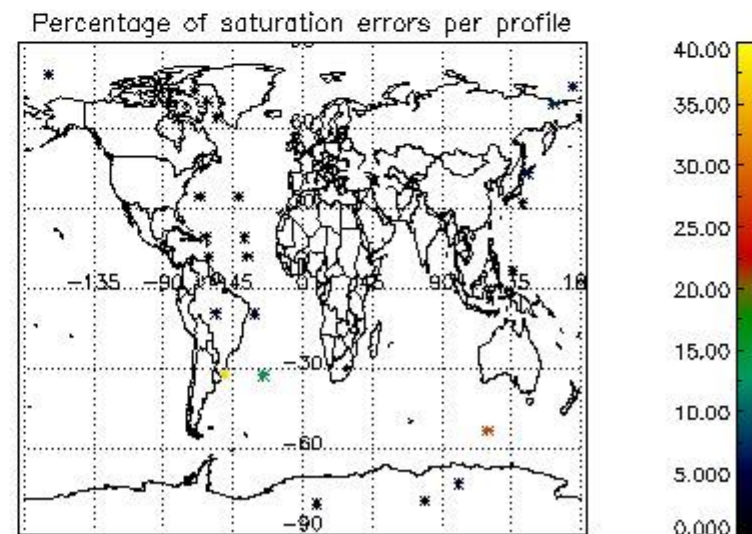
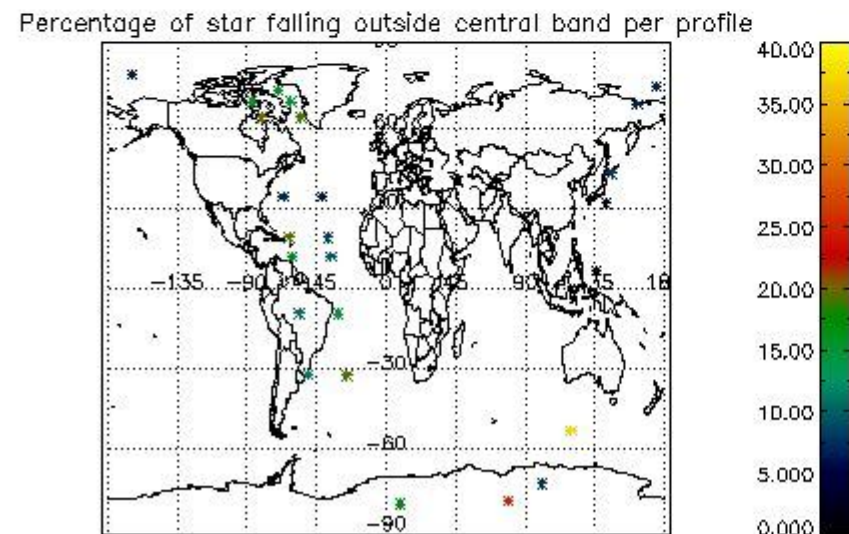
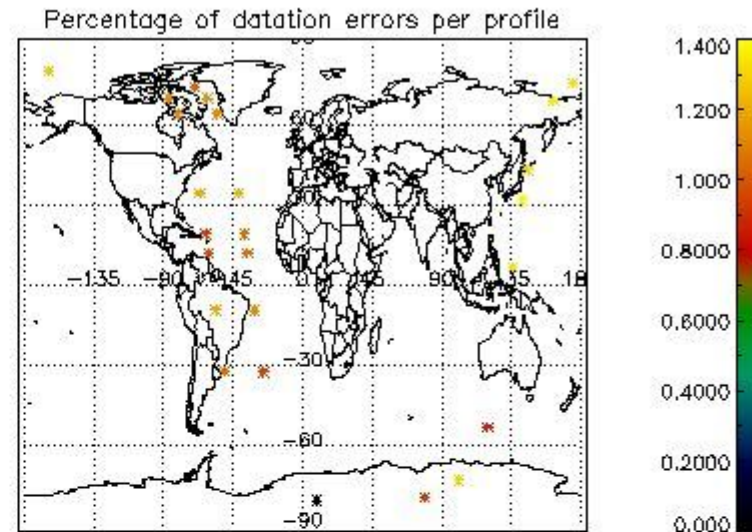
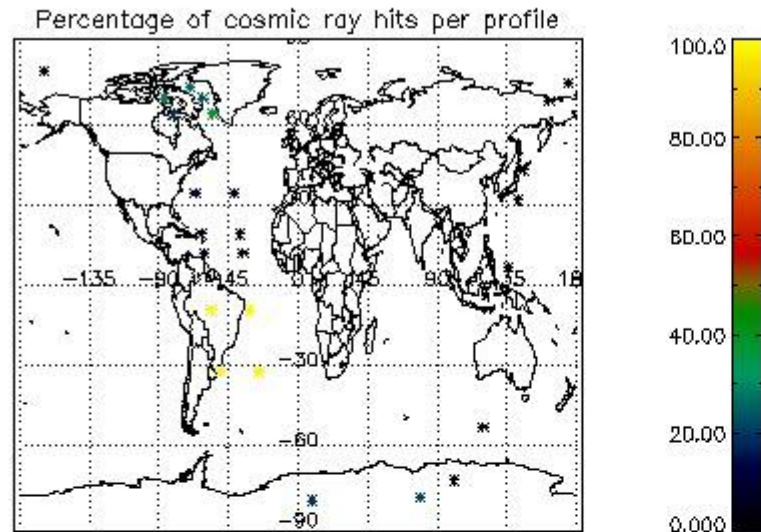
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 28.0000 % |
| 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)



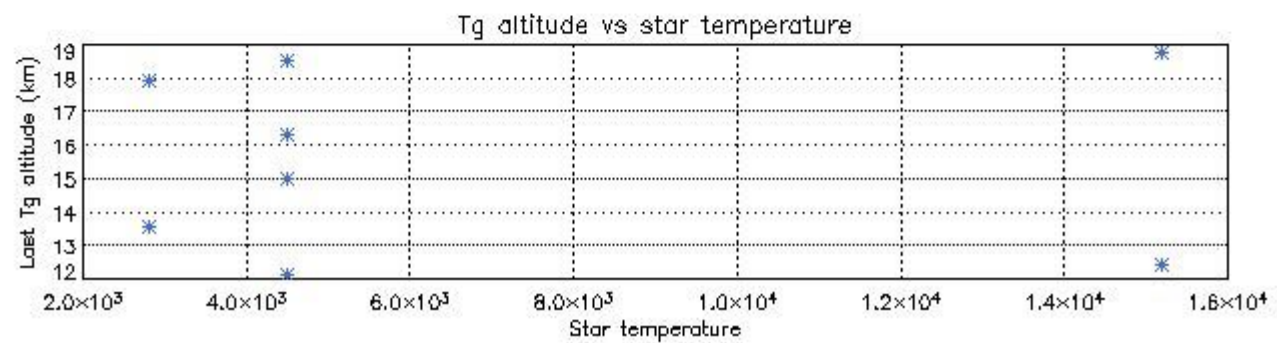
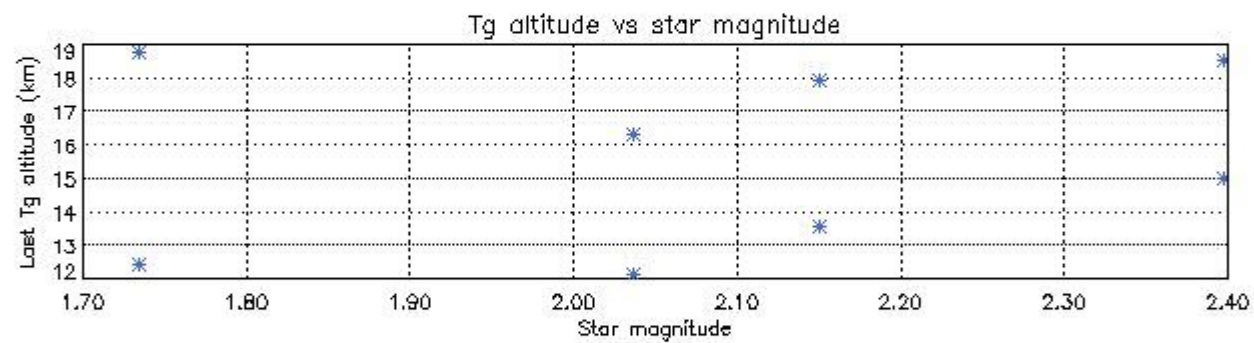
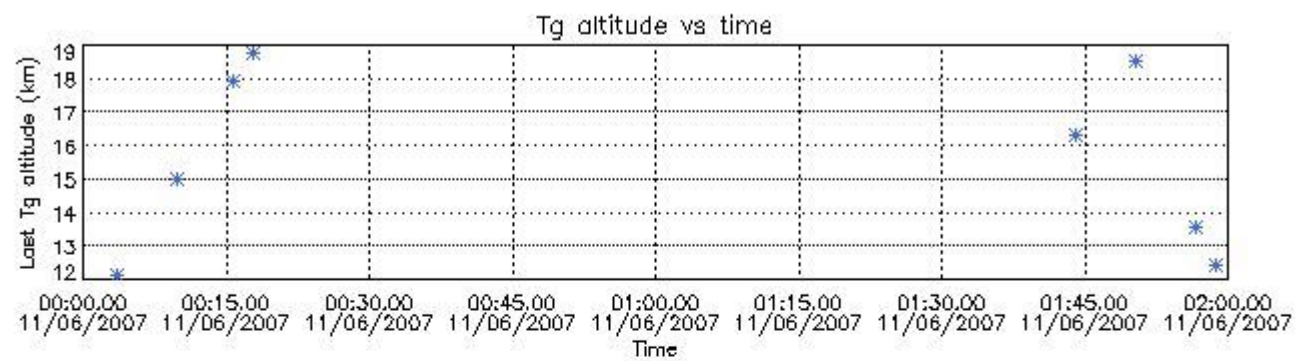
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 15.559 | 19.963 | 12.725 |
| St. deviation: | 2.6996 | 7.2800 | 0.0000 |
| Maximum: | 18.732 | 28.049 | 12.725 |
| Minimum: | 12.102 | 3.6015 | 12.725 |
| Number of data: | 8.0000 | 8.0000 | 1.0000 |

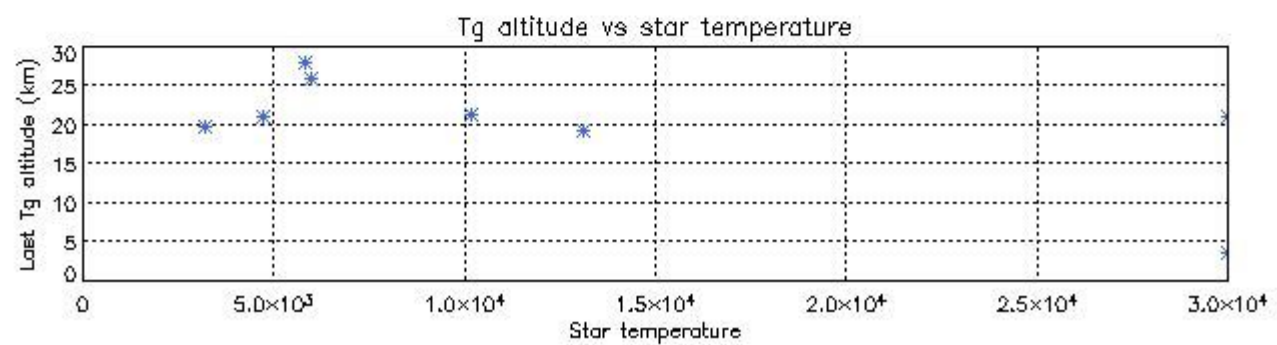
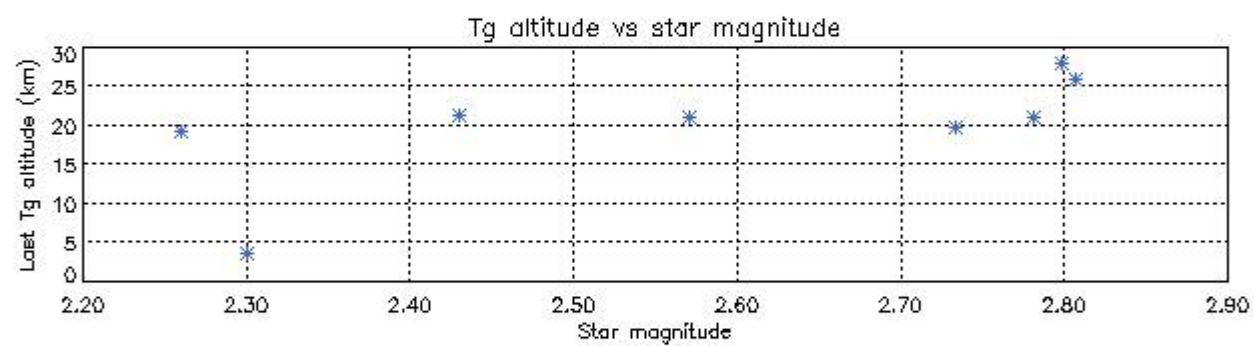
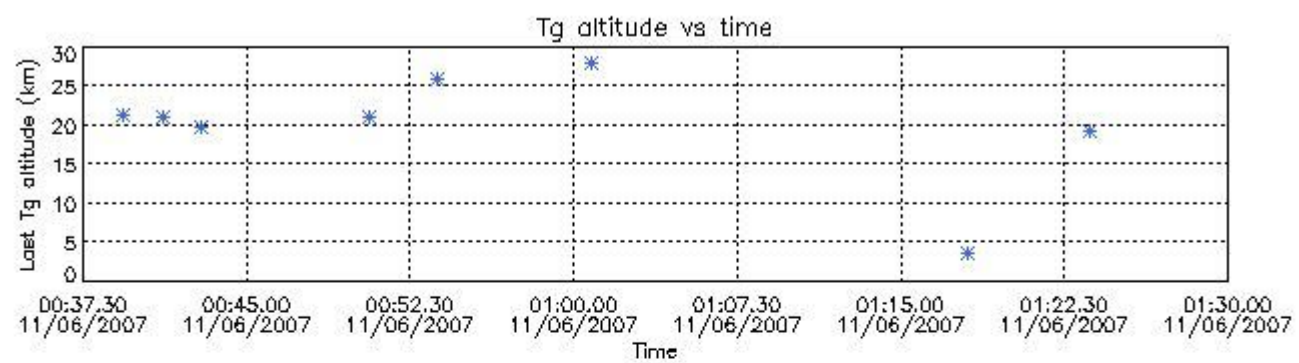
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



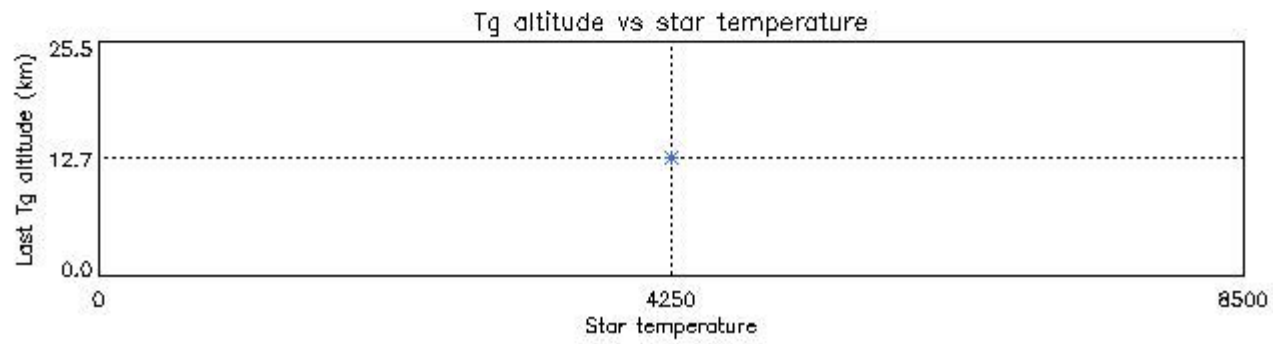
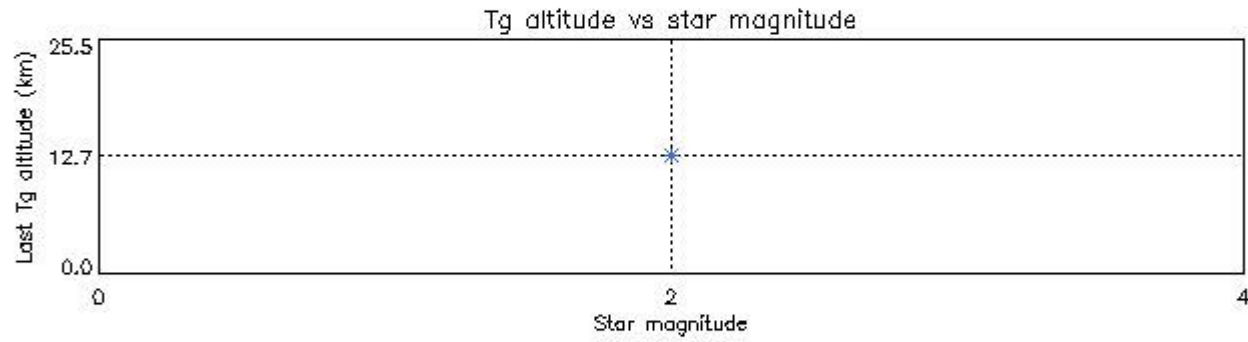
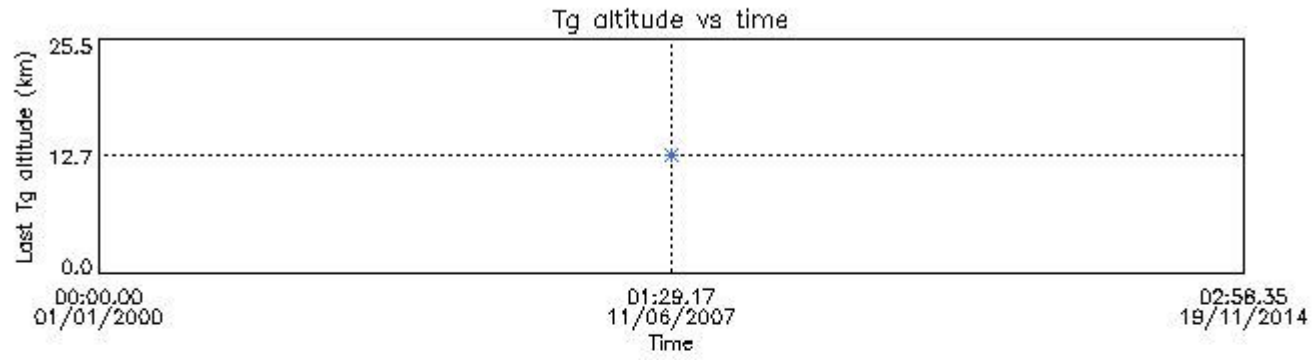
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

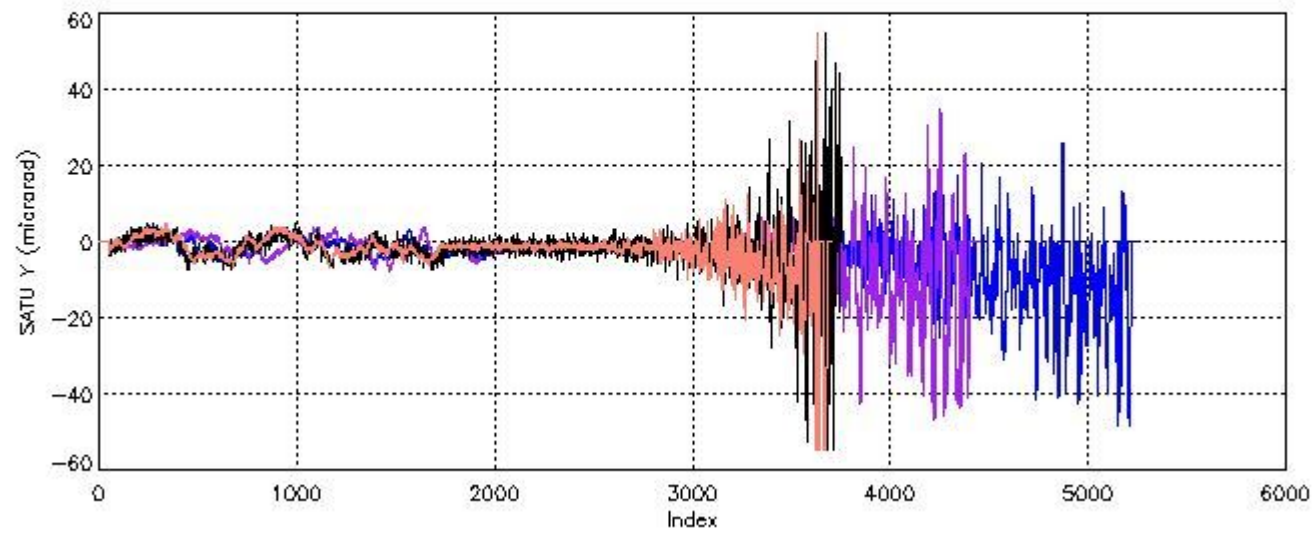
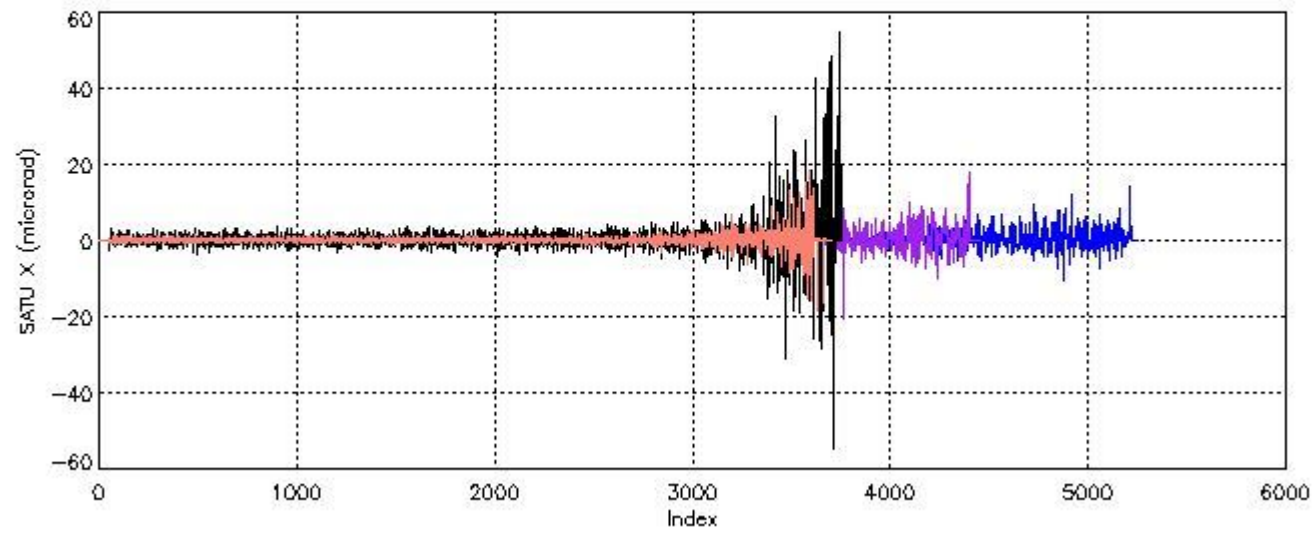


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.26102 | -0.85766 | 0.20737 | -0.99765 |
| St. deviation: | 0.34062 | 1.9239 | 0.73789 | 2.4750 |
| Maximum: | 3.9000 | 4.2000 | 3.4000 | 6.1000 |
| Minimum: | -8.2000 | -6.0000 | -3.8000 | -8.6000 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 8900.0 | 8900.0 | 7100.0 | 7100.0 |
|-----------------|--------|--------|--------|--------|

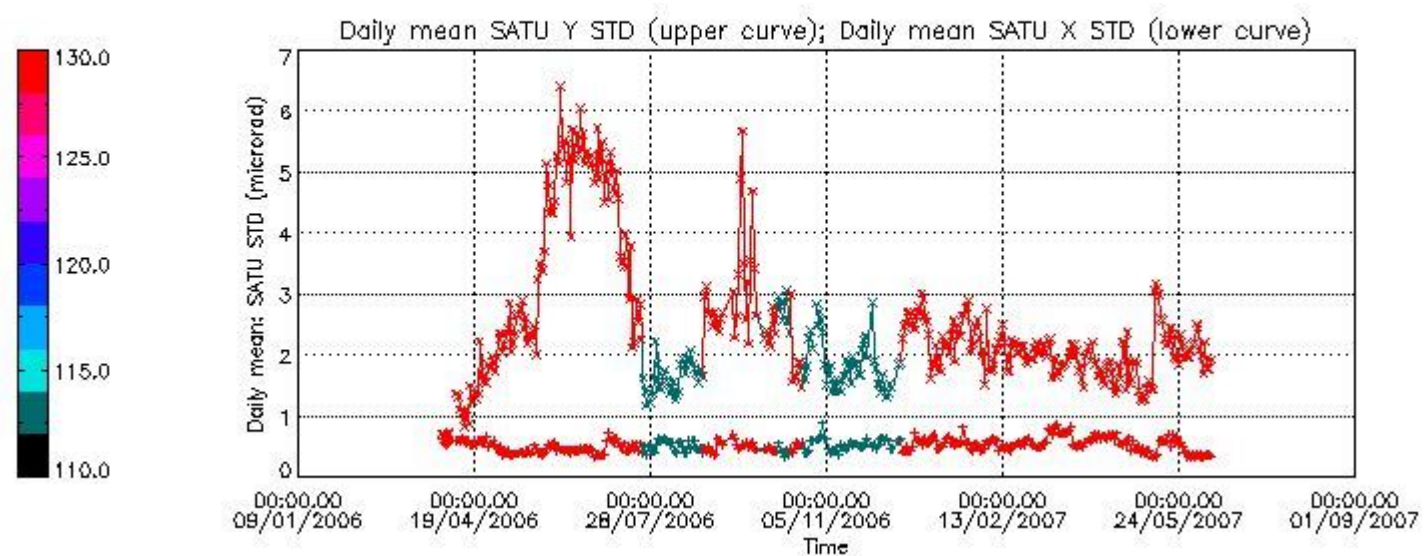
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

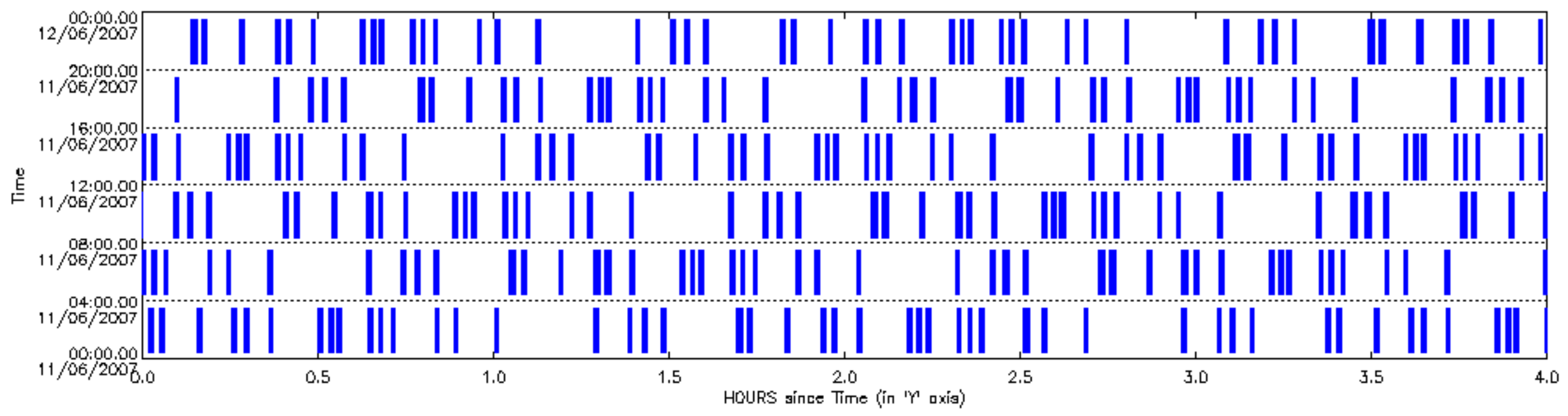
Lower curve: STD of SATU X axis

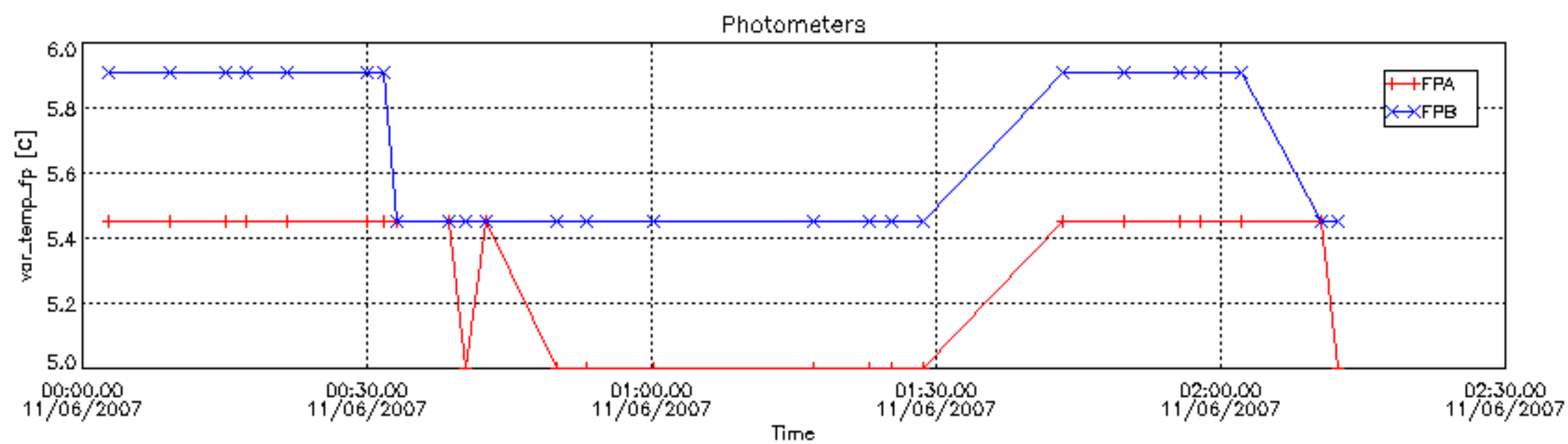
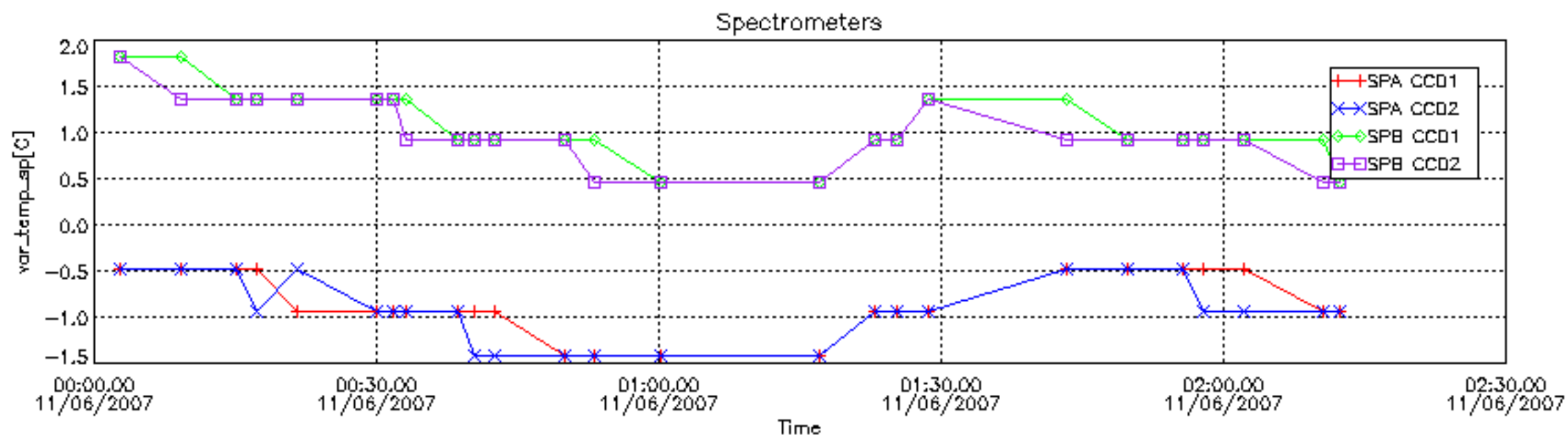


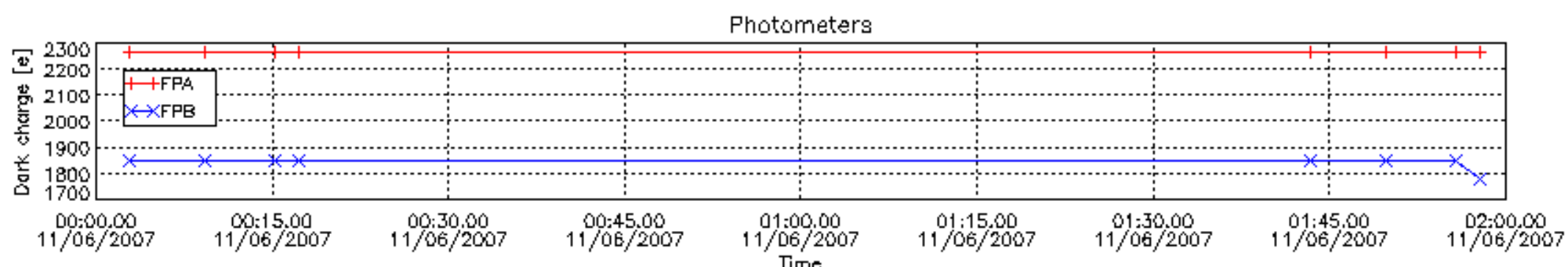
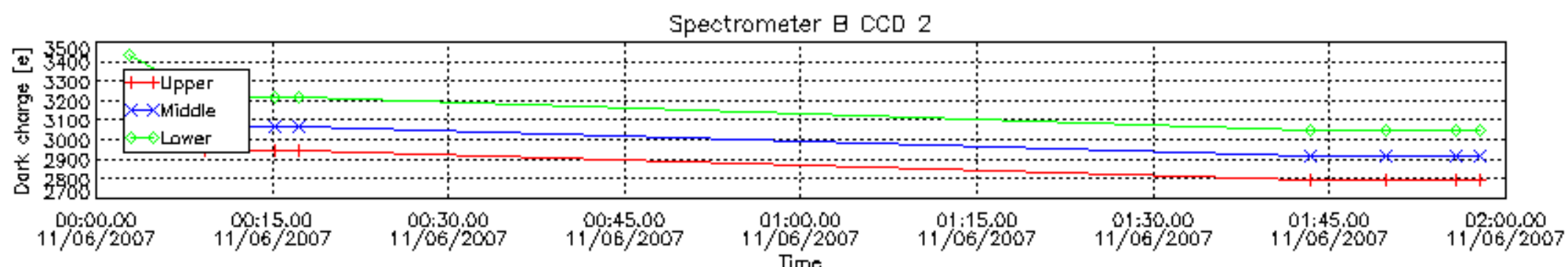
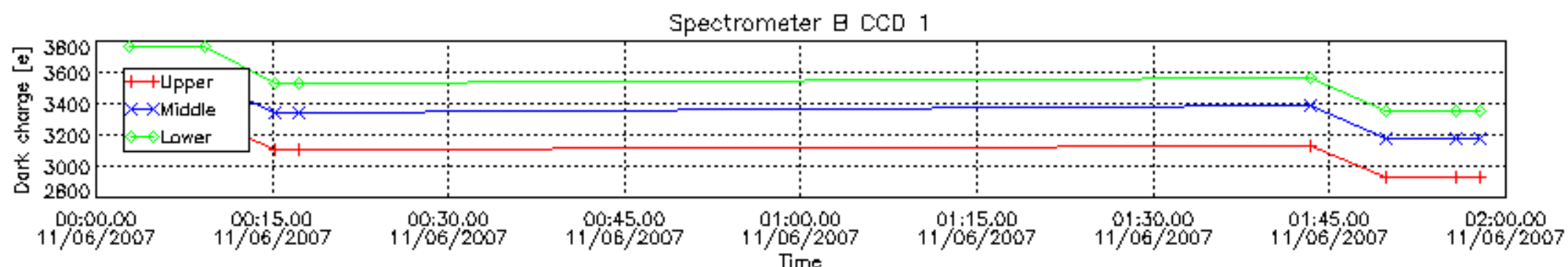
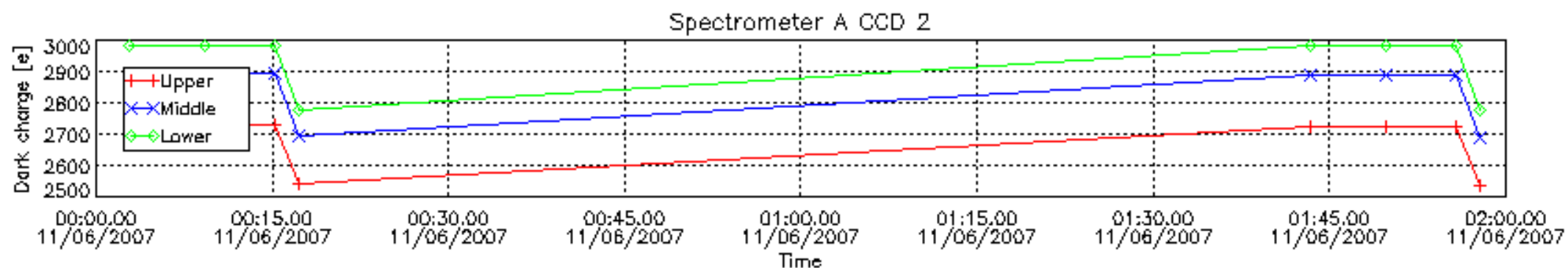
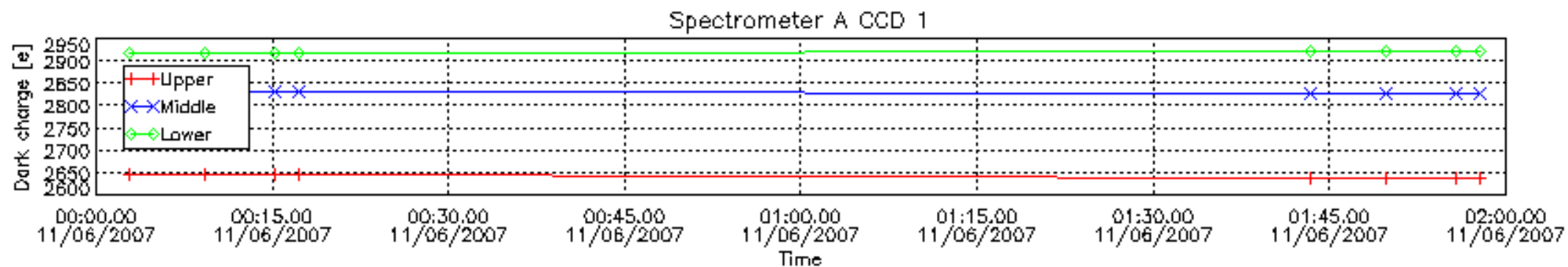
8. Auxiliary Data Files used for the production reported in section 2.4

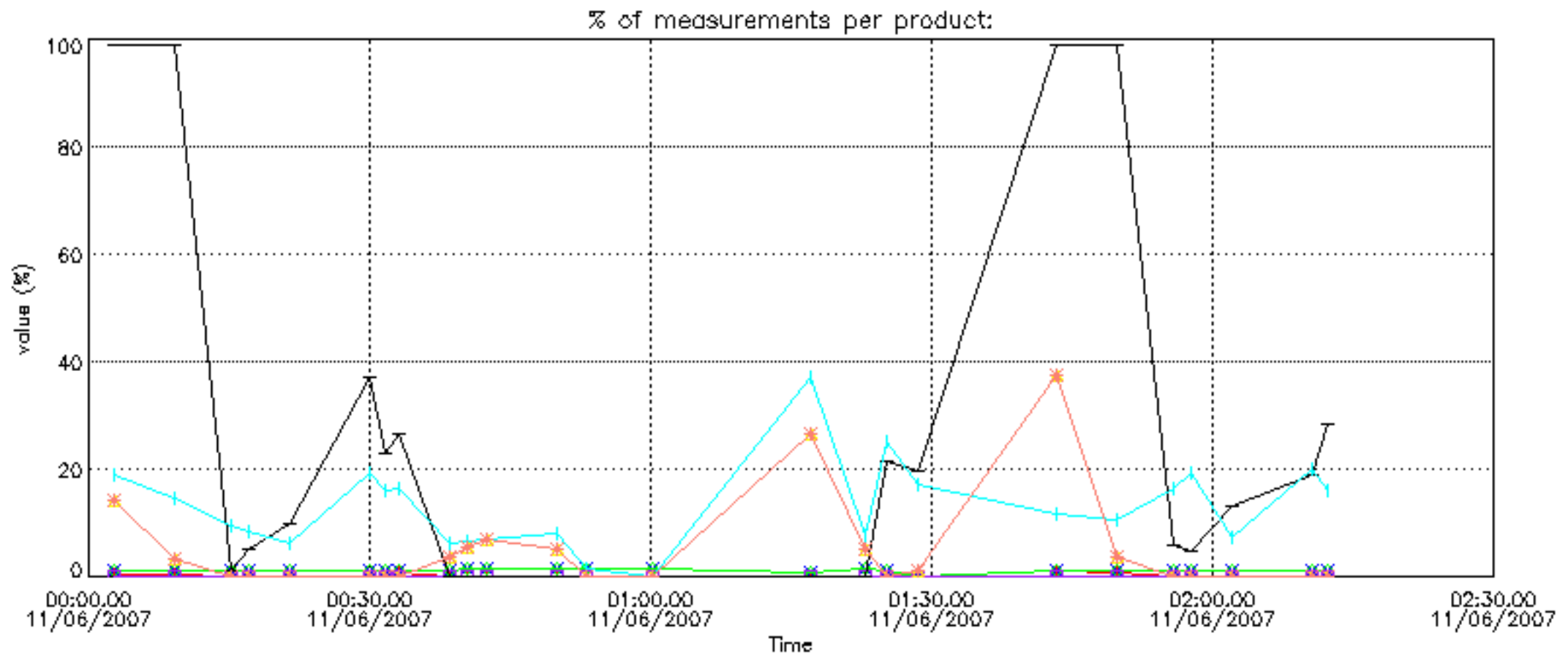
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 11-JUN-2007 00:02:44 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000 | 1 | 11-JUN-2007 00:02:44 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 11-JUN-2007 00:02:44 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 11-JUN-2007 00:02:44 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 11-JUN-2007 00:02:44 |
| ECMWF_FILE | AUX_ECF_AXNECM20070610_062111_20070610_210000_20070611_090000 | 1 | 11-JUN-2007 00:02:44 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 11-JUN-2007 00:02:44 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070610_235726_000054192058_00488_27596_3666.N1 | 1 | 11-JUN-2007 00:02:44 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070611_013304_000041442058_00489_27597_3667.N1 | 19 | 11-JUN-2007 01:43:21 |

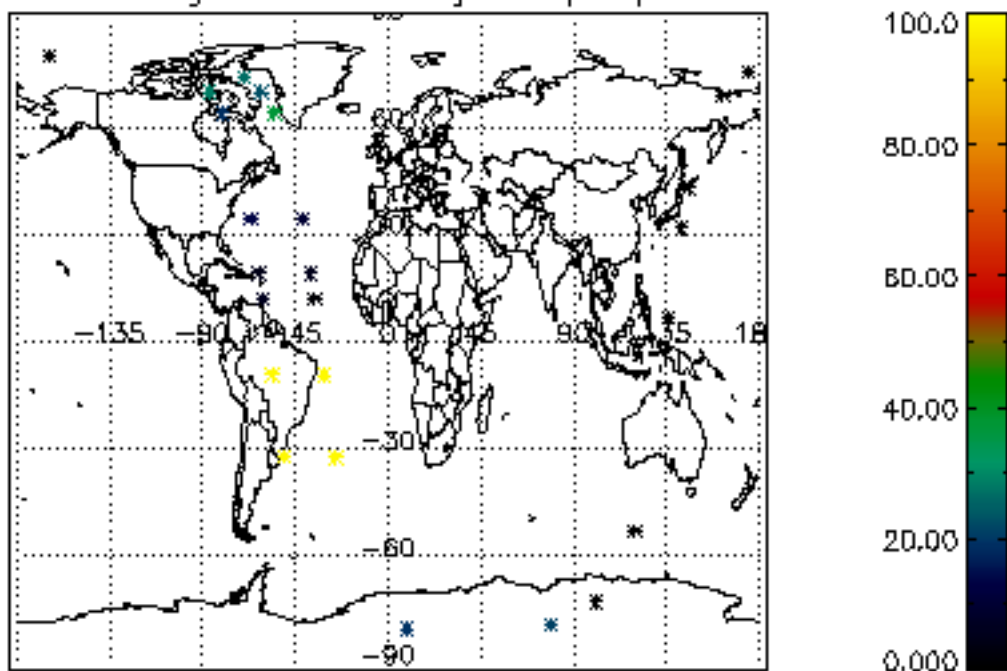




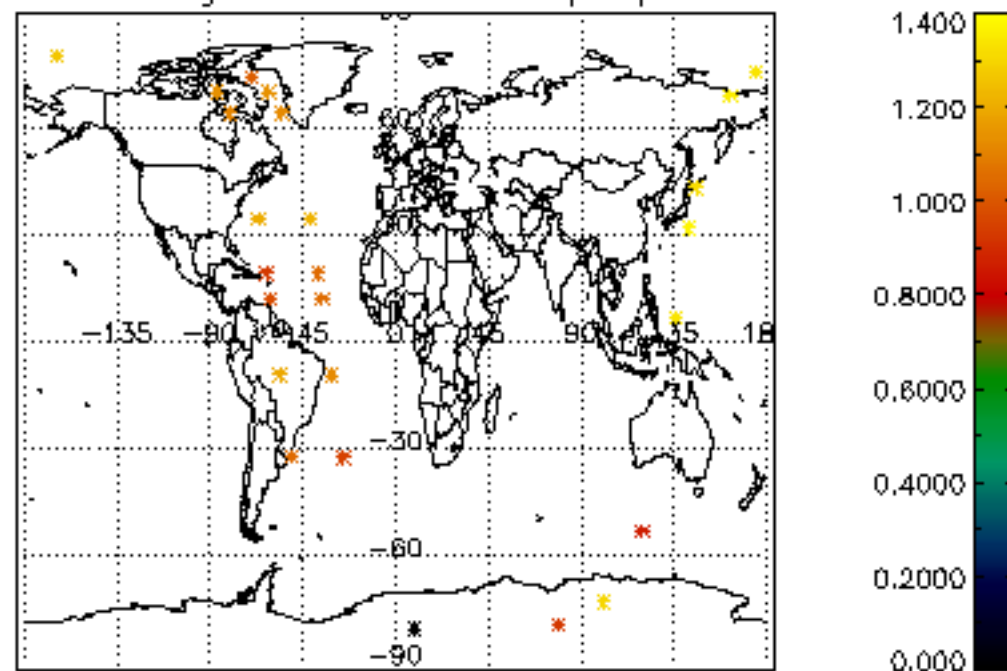




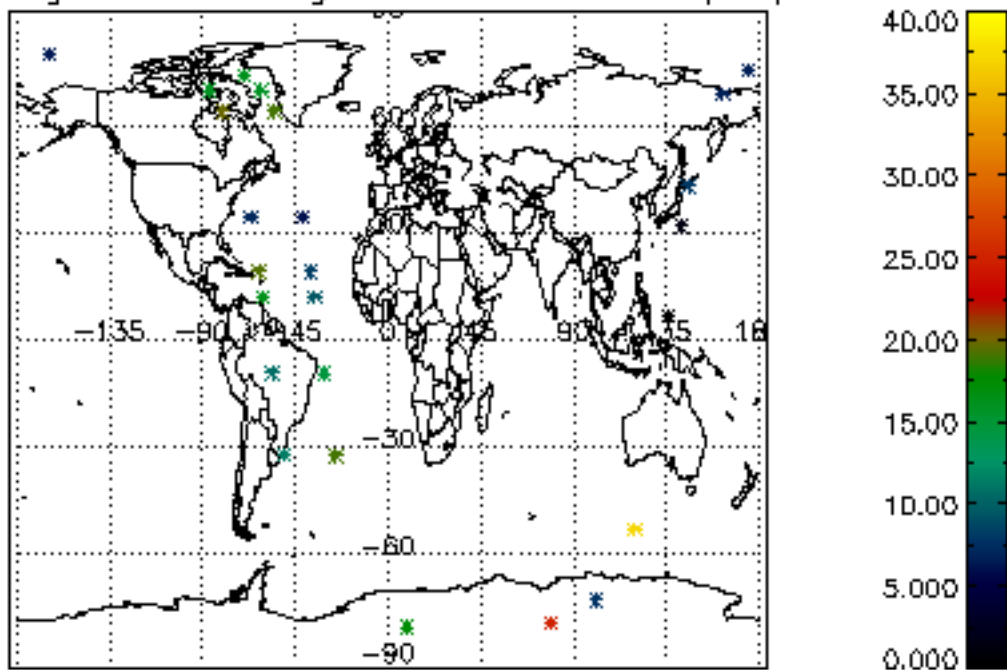
Percentage of cosmic ray hits per profile



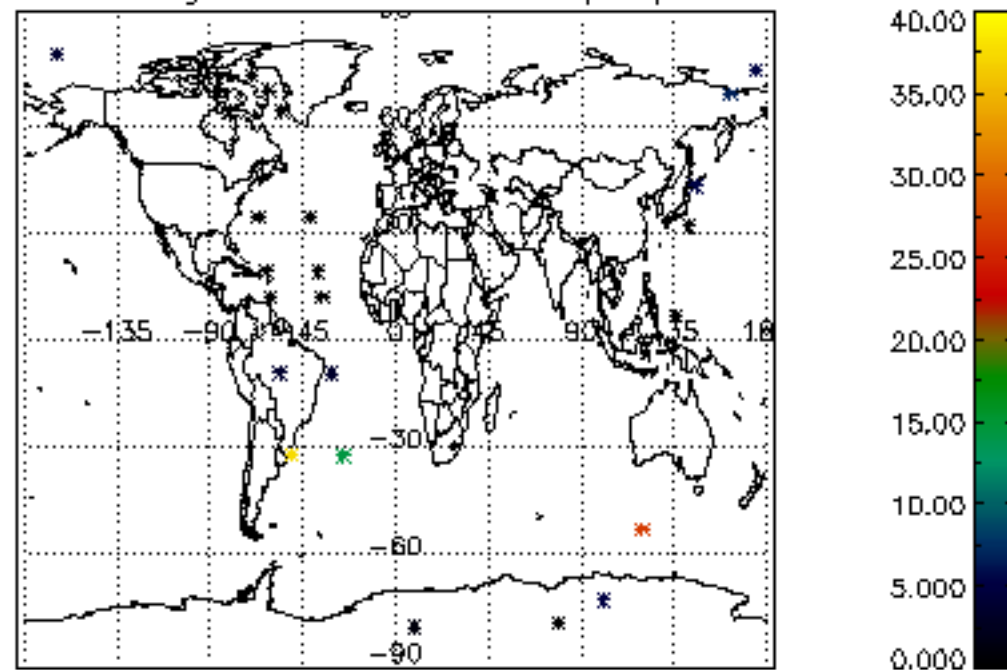
Percentage of datation errors per profile



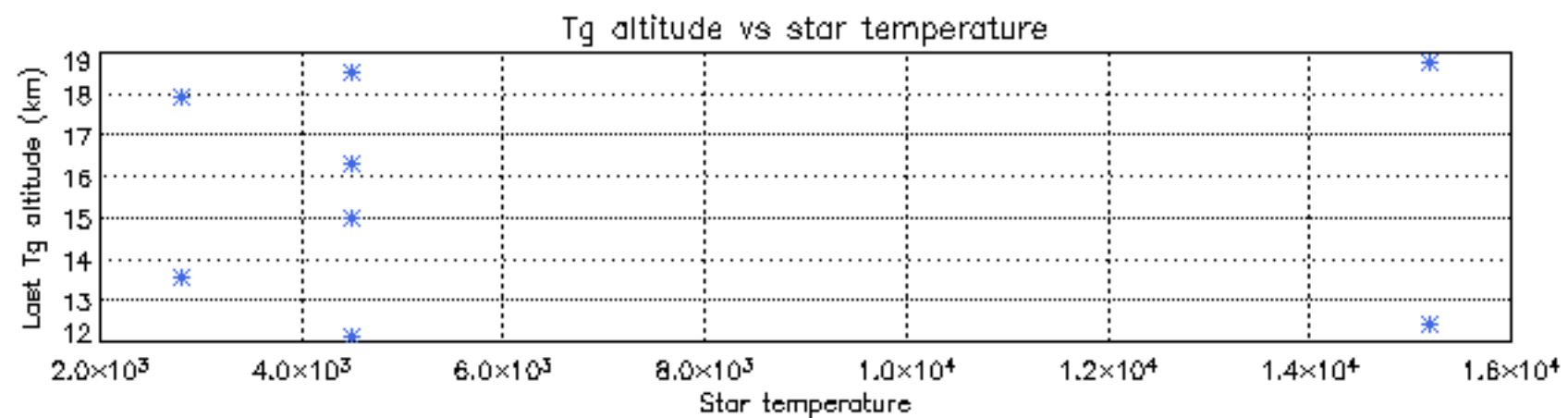
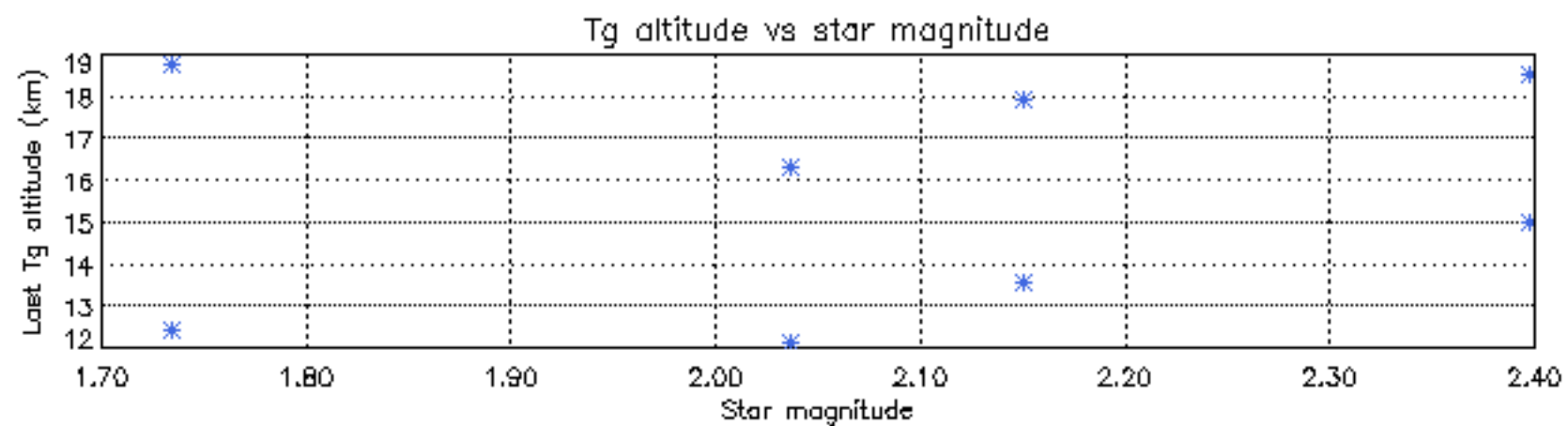
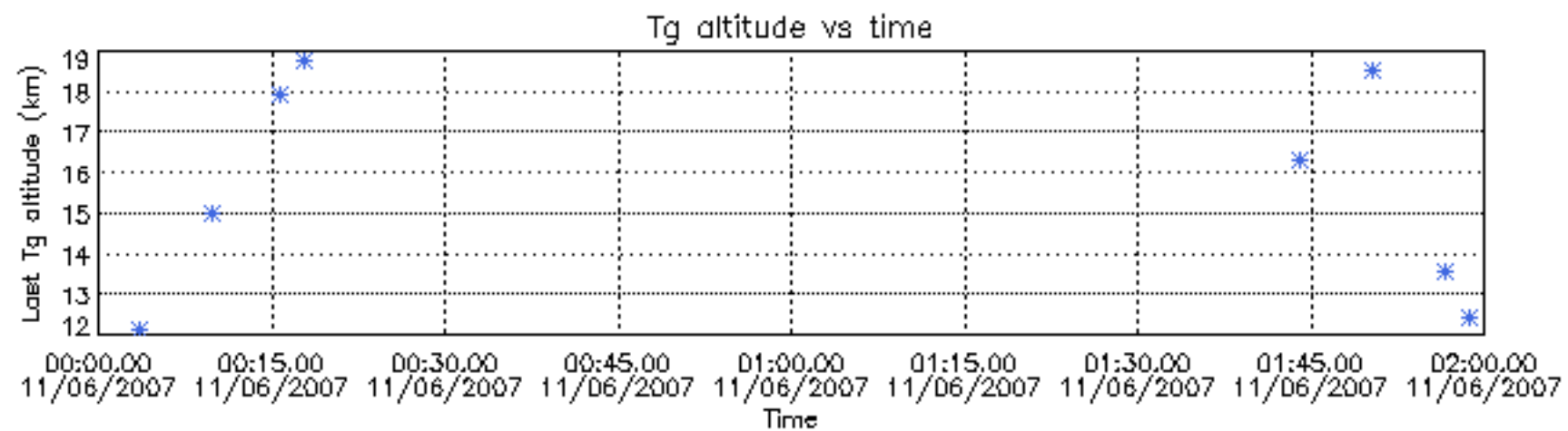
Percentage of star falling outside central band per profile



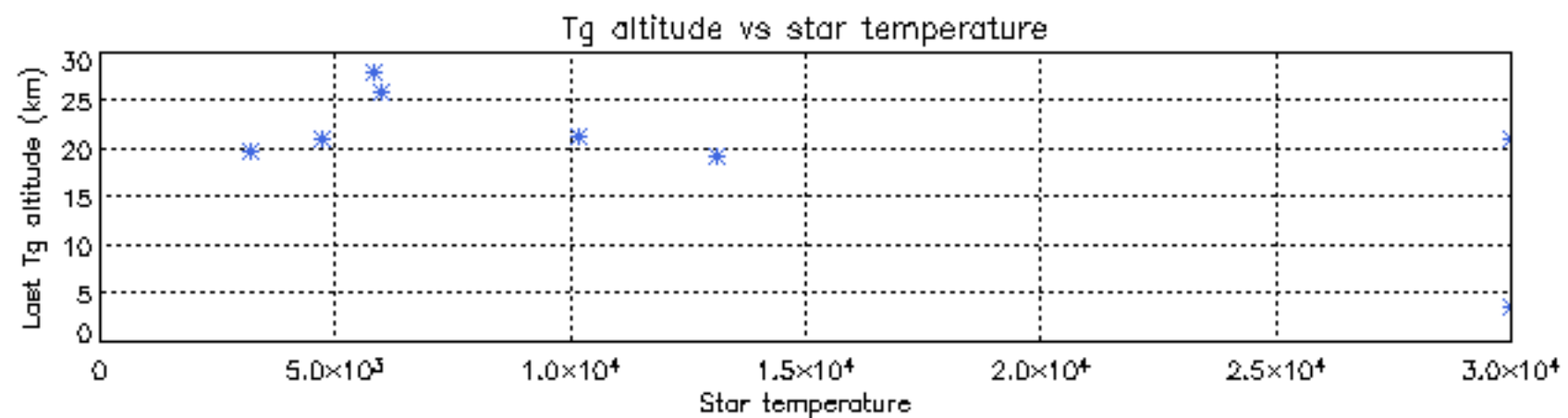
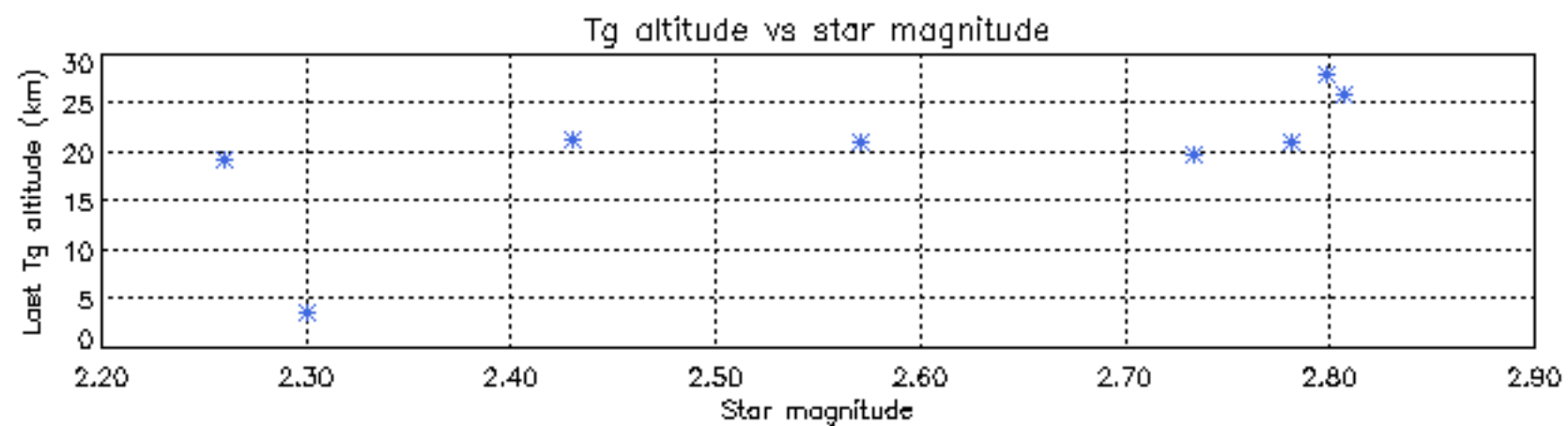
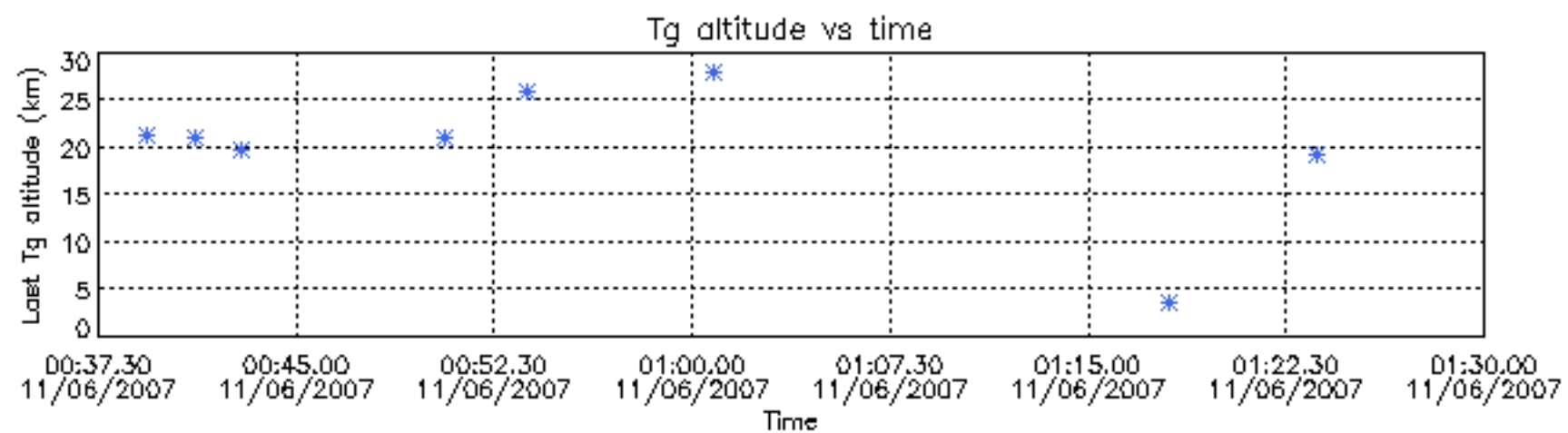
Percentage of saturation errors per profile



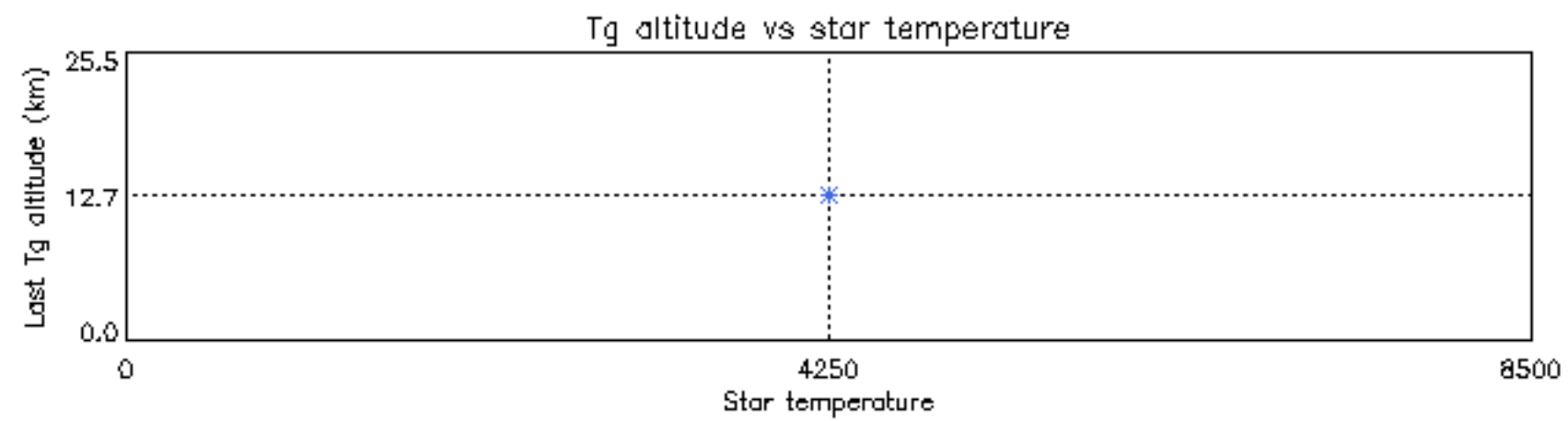
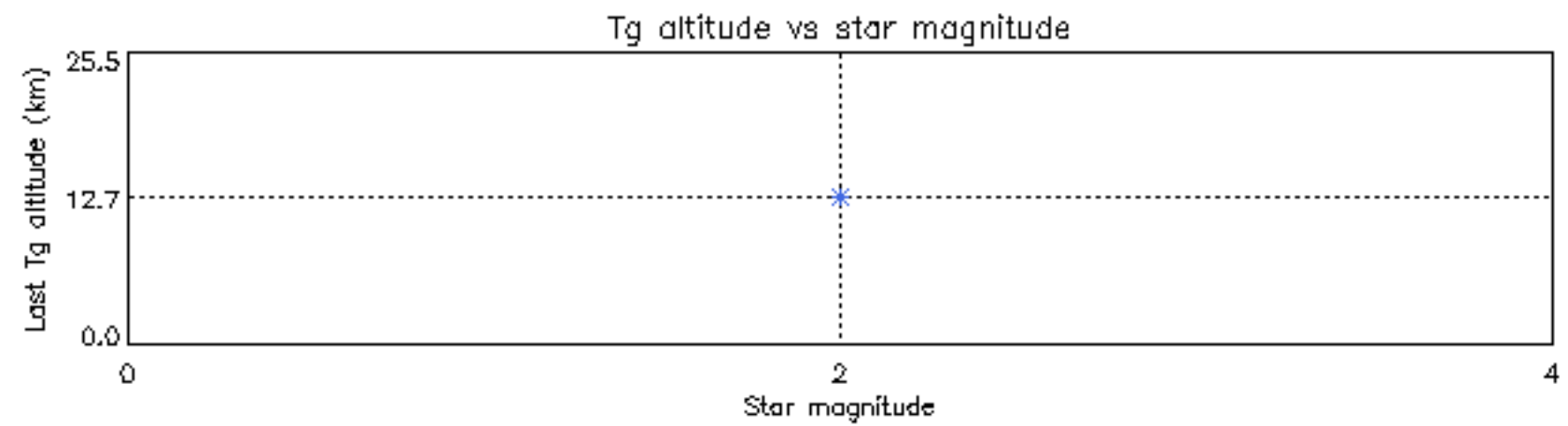
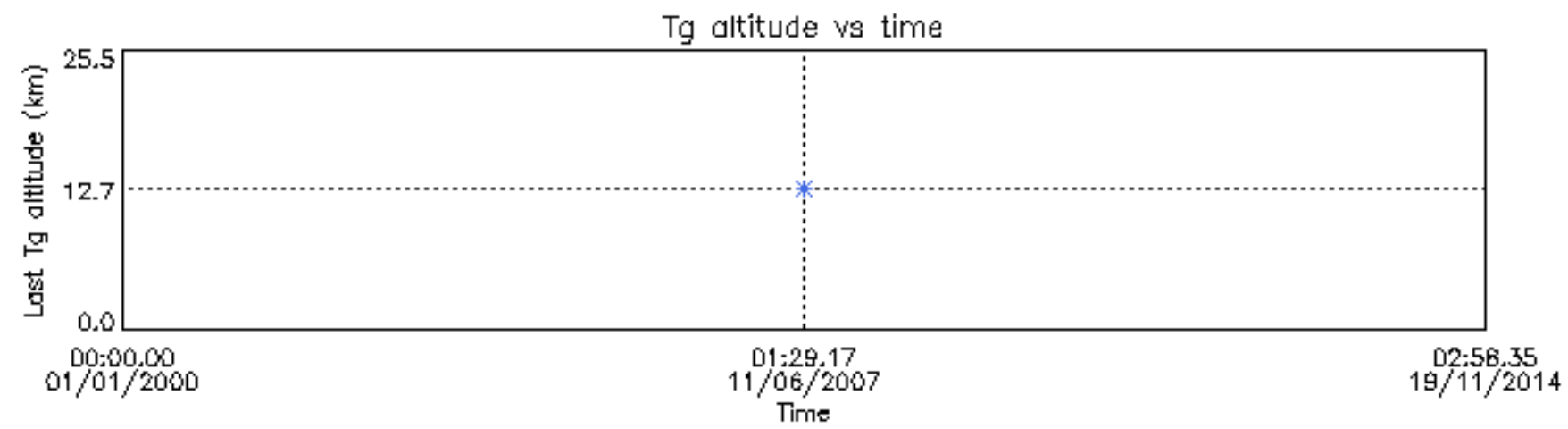
Tangent altitude at which the star is lost

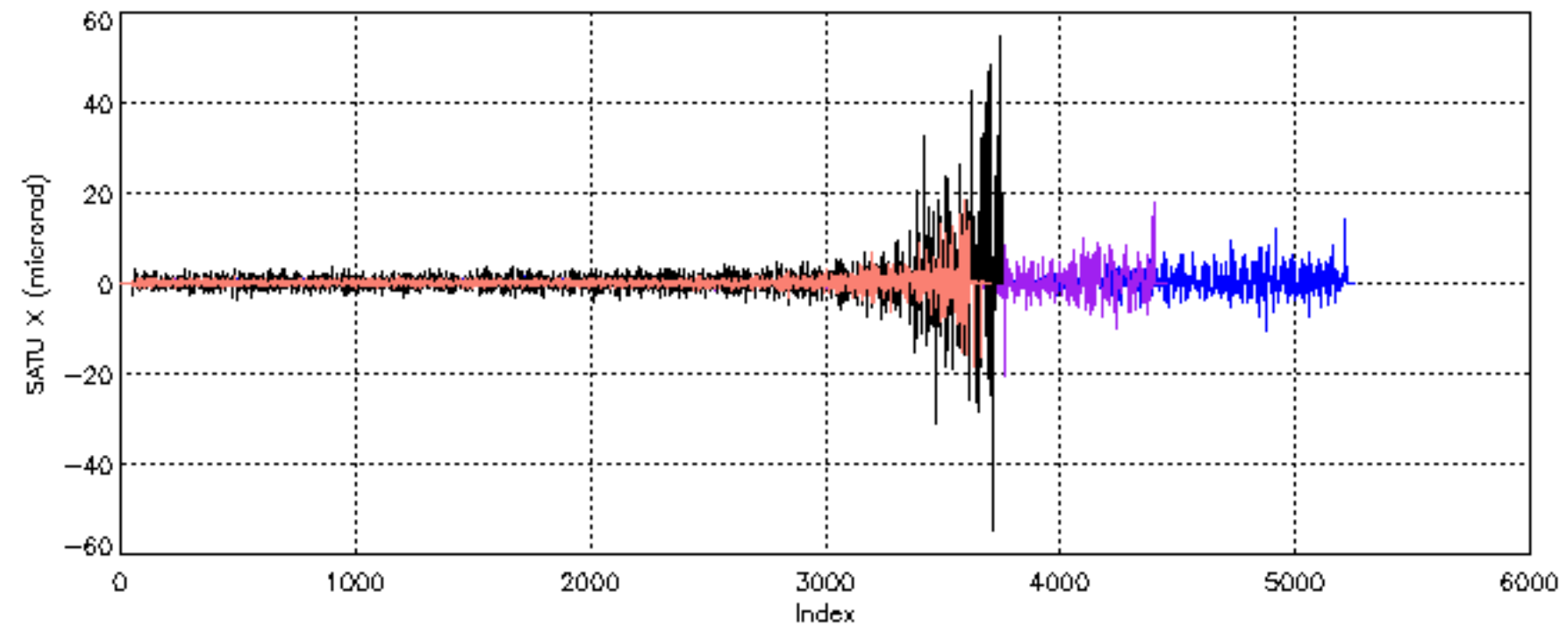


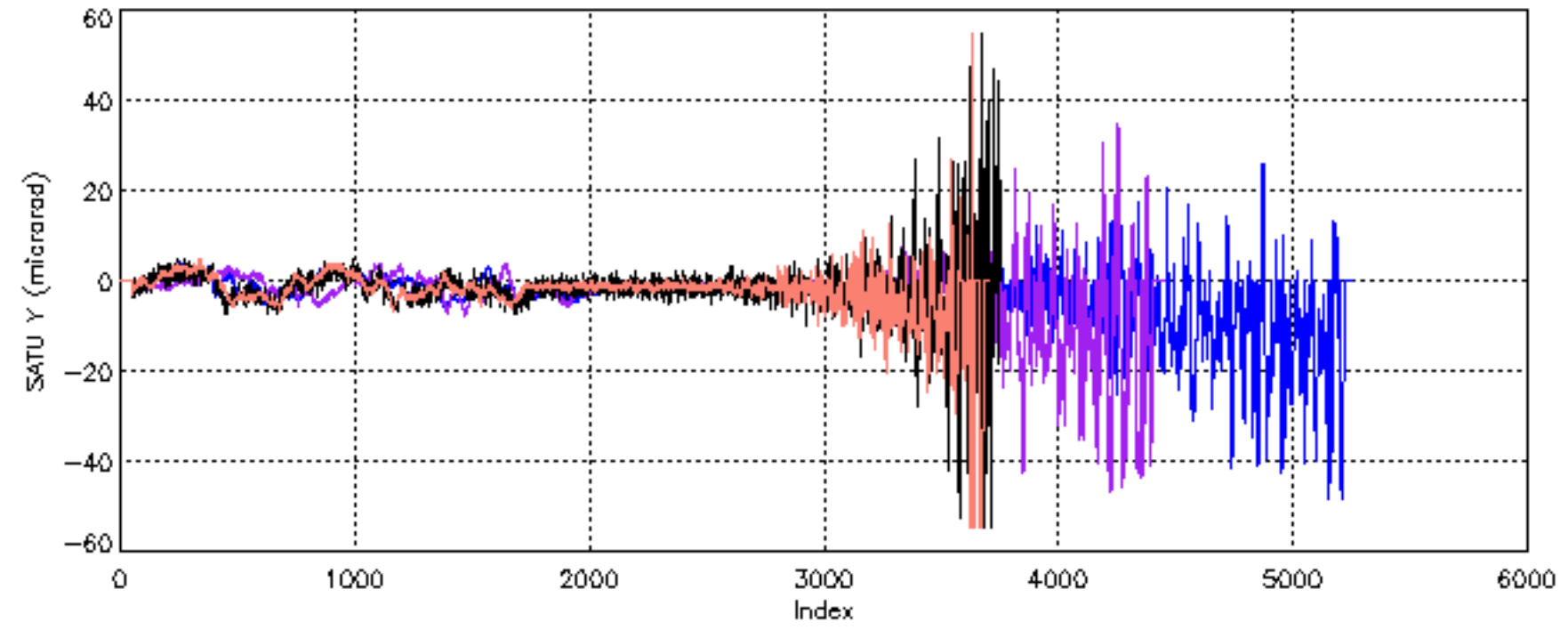
Tangent altitude at which the star is lost

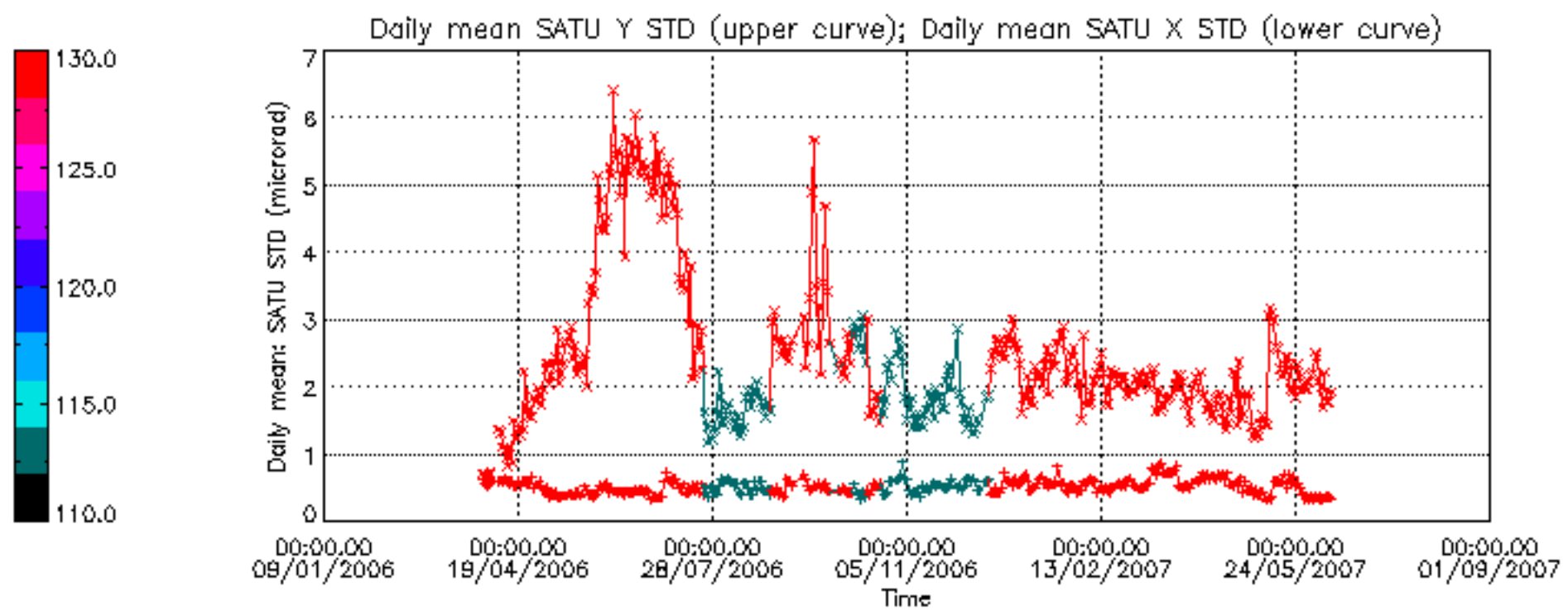


Tangent altitude at which the star is lost









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1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453
 2; -387.5; 01-JUN-2007 00:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27453
 3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453
 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
 9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454
 10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454
 11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454
 12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454
 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
 14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454
 15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454
 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

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 2; -387.1; 01-JUN-2007 02:00:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27454
 3; -244.9; 01-JUN-2007 02:02:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27454
 4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455
 5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455
 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
 10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455
 11; 1249.1; 01-JUN-2007 02:27:36; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27455
 12; 1430.5; 01-JUN-2007 02:30:38; Bright; 40.0; 156; 20Sig Sco ; 2.90; 28000;occ; 80; 0;27455
 13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455
 14; 1702.4; 01-JUN-2007 02:35:10; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27455
 15; 1834.1; 01-JUN-2007 02:37:21; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27455
 16; 2014.9; 01-JUN-2007 02:40:22; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27455
 17; 2369.8; 01-JUN-2007 02:46:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27455
 18; 3006.5; 01-JUN-2007 02:56:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27455
 19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455
 20; 3446.8; 01-JUN-2007 03:04:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27455

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 2; -1642.2; 01-JUN-2007 03:20:01; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27455
 3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455
 4; -386.7; 01-JUN-2007 03:40:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27455
 5; -244.3; 01-JUN-2007 03:43:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27455
 6; 73.6; 01-JUN-2007 03:48:37; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27456
 7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456
 8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456
 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
 10; 933.3; 01-JUN-2007 04:02:56; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27456
 11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456
 12; 1142.6; 01-JUN-2007 04:06:26; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;27456
 13; 1249.5; 01-JUN-2007 04:08:13; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27456
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 15; 1543.7; 01-JUN-2007 04:13:07; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27456
 16; 1702.6; 01-JUN-2007 04:15:46; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27456
 17; 1834.3; 01-JUN-2007 04:17:57; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27456
 18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456
 19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456
 20; 3006.3; 01-JUN-2007 04:37:29; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27456
 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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 2; -1642.2; 01-JUN-2007 05:00:37; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;27456
 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456
 5; -243.8; 01-JUN-2007 05:23:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27456
 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457
 7; 186.6; 01-JUN-2007 05:31:06; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27457
 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457
 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457
 11; 1034.9; 01-JUN-2007 05:45:14; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27457
 12; 1143.0; 01-JUN-2007 05:47:02; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27457
 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457
 14; 1409.5; 01-JUN-2007 05:51:29; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;27457
 15; 1543.7; 01-JUN-2007 05:53:43; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27457
 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457
 17; 1834.3; 01-JUN-2007 05:58:33; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27457
 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457
 20; 3005.9; 01-JUN-2007 06:18:05; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27457
 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
 22; 3446.9; 01-JUN-2007 06:25:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27457

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 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466
 6; 1374.4; 01-JUN-2007 20:56:17; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;27466
 7; 1545.0; 01-JUN-2007 20:59:08; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27466
 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466
 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466
 11; 2368.6; 01-JUN-2007 21:12:51; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27466
 12; 3003.4; 01-JUN-2007 21:23:26; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27466
 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466
 14; 3446.7; 01-JUN-2007 21:30:49; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27466
 15; 3928.7; 01-JUN-2007 21:38:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27466
 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 3; -238.3; 01-JUN-2007 22:10:00; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;27466
 4; 82.9; 01-JUN-2007 22:15:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;27467
 5; 195.8; 01-JUN-2007 22:17:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27467
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467
 7; 862.6; 01-JUN-2007 22:28:21; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27467
 8; 937.9; 01-JUN-2007 22:29:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27467
 9; 1039.3; 01-JUN-2007 22:31:18; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27467
 10; 1147.1; 01-JUN-2007 22:33:06; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27467
 11; 1252.8; 01-JUN-2007 22:34:51; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27467
 12; 1374.4; 01-JUN-2007 22:36:53; Dark ; 39.5; 136; 23Tau Sco ; 2.82; 30000;occ; 79; 0;27467
 13; 1545.1; 01-JUN-2007 22:39:44; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27467
 14; 1702.9; 01-JUN-2007 22:42:21; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27467
 15; 1834.0; 01-JUN-2007 22:44:32; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;27467
 16; 2014.7; 01-JUN-2007 22:47:33; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;27467
 17; 2368.4; 01-JUN-2007 22:53:27; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27467
 18; 3003.0; 01-JUN-2007 23:04:01; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27467
 19; 3165.8; 01-JUN-2007 23:06:44; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27467
 20; 3446.7; 01-JUN-2007 23:11:25; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27467
 21; 3928.8; 01-JUN-2007 23:19:27; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;27467
 22; 4394.9; 01-JUN-2007 23:27:13; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;27467

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 3; -237.8; 01-JUN-2007 23:50:37; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;27467
 4; 83.7; 01-JUN-2007 23:55:58; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;27468
 5; 196.8; 01-JUN-2007 23:57:51; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27468


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6; 493.4; 02-JUN-2007 00:02:48; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27468
7; 862.9; 02-JUN-2007 00:08:57; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27468
8; 938.3; 02-JUN-2007 00:10:13; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27468
9; 1039.7; 02-JUN-2007 00:11:54; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27468
10; 1147.5; 02-JUN-2007 00:13:42; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27468
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12; 1374.7; 02-JUN-2007 00:17:29; Dark ; 38.5; 136; 23Tau Sco ; 2.82; 30000;occ; 77; 0;27468
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15; 1833.9; 02-JUN-2007 00:25:08; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27468
16; 2014.7; 02-JUN-2007 00:28:09; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;27468
17; 2368.3; 02-JUN-2007 00:34:03; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;27468
18; 3002.7; 02-JUN-2007 00:44:37; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27468
19; 3165.8; 02-JUN-2007 00:47:20; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27468
20; 3446.7; 02-JUN-2007 00:52:01; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27468
21; 3928.6; 02-JUN-2007 01:00:03; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;27468
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11; 2299.0; 06-JUN-2007 20:14:13; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;27537
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15; 3446.7; 06-JUN-2007 20:33:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27537
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19; 4648.3; 06-JUN-2007 20:53:22; Dark ; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;27537

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| 1; | -591.7; | 06-JUN-2007 | 21:06:38; | Dark | ; | 51.0; | 52; | 16Bet | Cet | ; | 2.04; | 4500; | occ; | 102; | 0; | 27537 |
| 2; | -347.0; | 06-JUN-2007 | 21:10:43; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 27537 |
| 3; | -196.2; | 06-JUN-2007 | 21:13:13; | Dark | ; | 46.5; | 84; | Alp | Phe | ; | 2.40; | 4500; | occ; | 93; | 0; | 27537 |
| 4; | 145.6; | 06-JUN-2007 | 21:18:55; | Dark | ; | 50.0; | 63; | Bet | Gru | ; | 2.15; | 2800; | occ; | 100; | 0; | 27538 |
| 5; | 263.6; | 06-JUN-2007 | 21:20:53; | Dark | ; | 47.0; | 31; | Alp | Gru | ; | 1.73; | 15200; | occ; | 94; | 0; | 27538 |
| 6; | 540.6; | 06-JUN-2007 | 21:25:30; | Dark | ; | 44.0; | 45; | Alp | Pav | ; | 1.94; | 26000; | occ; | 88; | 0; | 27538 |
| 7; | 887.7; | 06-JUN-2007 | 21:31:17; | Dark | ; | 39.0; | 141; | Bet | Ara | ; | 2.84; | 4600; | occ; | 78; | 0; | 27538 |
| 8; | 965.6; | 06-JUN-2007 | 21:32:35; | Dark | ; | 39.5; | 147; | Alp | Ara | ; | 2.88; | 26000; | occ; | 79; | 0; | 27538 |
| 9; | 1068.6; | 06-JUN-2007 | 21:34:18; | Dark | ; | 45.0; | 40; | The | Sco | ; | 1.86; | 7100; | occ; | 90; | 0; | 27538 |
| 10; | 1174.6; | 06-JUN-2007 | 21:36:04; | Dark | ; | 46.0; | 25; | 35Lam | Sco | ; | 1.62; | 28000; | occ; | 92; | 0; | 27538 |
| 11; | 1272.7; | 06-JUN-2007 | 21:37:42; | Dark | ; | 45.0; | 75; | 26Eps | Sco | ; | 2.29; | 4250; | occ; | 90; | 0; | 27538 |
| 12; | 1390.5; | 06-JUN-2007 | 21:39:40; | Dark | ; | 42.5; | 136; | 23Tau | Sco | ; | 2.82; | 30000; | occ; | 85; | 0; | 27538 |
| 13; | 1511.3; | 06-JUN-2007 | 21:41:41; | Bright; | | 37.5; | 80; | 7Del | Sco | ; | 2.32; | 30000; | occ; | 75; | 0; | 27538 |
| 14; | 1598.7; | 06-JUN-2007 | 21:43:08; | Bright; | | 42.5; | 86; | 35Eta | Oph | ; | 2.43; | 10200; | occ; | 85; | 0; | 27538 |
| 15; | 1706.5; | 06-JUN-2007 | 21:44:56; | Bright; | | 38.5; | 98; | 13Zet | Oph | ; | 2.57; | 30000; | occ; | 77; | 0; | 27538 |
| 16; | 1834.8; | 06-JUN-2007 | 21:47:04; | Bright; | | 37.5; | 120; | 1Del | Oph | ; | 2.73; | 3200; | occ; | 75; | 0; | 27538 |
| 17; | 2015.0; | 06-JUN-2007 | 21:50:05; | Bright; | | 35.0; | 102; | 24Alp | Ser | ; | 2.60; | 4250; | occ; | 70; | 0; | 27538 |
| 18; | 2298.6; | 06-JUN-2007 | 21:54:48; | Bright; | | 40.0; | 127; | 27Bet | Her | ; | 2.78; | 4700; | occ; | 80; | 0; | 27538 |
| 19; | 2495.1; | 06-JUN-2007 | 21:58:05; | Bright; | | 40.5; | 133; | 40Zet | Her | ; | 2.81; | 6000; | occ; | 81; | 0; | 27538 |
| 20; | 2984.7; | 06-JUN-2007 | 22:06:14; | Bright; | | 51.0; | 119; | 14Eta | Dra | ; | 2.73; | 4700; | occ; | 102; | 0; | 27538 |
| 21; | 3165.2; | 06-JUN-2007 | 22:09:15; | Bright; | | 36.5; | 60; | 7Bet | UMi | ; | 2.08; | 3950; | occ; | 73; | 0; | 27538 |
| 22; | 3446.6; | 06-JUN-2007 | 22:13:56; | Bright; | | 35.5; | 49; | 1Alp | UMi | ; | 1.99; | 6300; | occ; | 71; | 0; | 27538 |
| 23; | 3920.0; | 06-JUN-2007 | 22:21:50; | Bright; | | 36.0; | 76; | 27Gam | Cas | ; | 2.30; | 30000; | occ; | 72; | 0; | 27538 |
| 24; | 4262.7; | 06-JUN-2007 | 22:27:32; | Bright; | | 54.0; | 73; | 57Gam1 | And | ; | 2.26; | 13100; | occ; | 108; | 0; | 27538 |
| 25; | 4401.4; | 06-JUN-2007 | 22:29:51; | Dark | ; | 52.0; | 53; | 43Bet | And | ; | 2.05; | 3300; | occ; | 104; | 0; | 27538 |
| 26; | 4648.5; | 06-JUN-2007 | 22:33:58; | Dark | ; | 40.5; | 105; | 6Bet | Ari | ; | 2.64; | 8900; | occ; | 81; | 0; | 27538 |

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| 1; | -591.0; | 06-JUN-2007 | 22:47:14; | Dark | ; | 49.5; | 52; | 16Bet | Cet | ; | 2.04; | 4500; | occ; | 99; | 0; | 27538 |
| 2; | -346.4; | 06-JUN-2007 | 22:51:19; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 27538 |
| 3; | -195.5; | 06-JUN-2007 | 22:53:50; | Dark | ; | 44.0; | 84; | Alp | Phe | ; | 2.40; | 4500; | occ; | 88; | 0; | 27538 |
| 4; | 146.5; | 06-JUN-2007 | 22:59:32; | Dark | ; | 63.0; | 63; | Bet | Gru | ; | 2.15; | 2800; | occ; | 126; | 0; | 27539 |
| 5; | 264.5; | 06-JUN-2007 | 23:01:30; | Dark | ; | 52.0; | 31; | Alp | Gru | ; | 1.73; | 15200; | occ; | 104; | 0; | 27539 |
| 6; | 541.3; | 06-JUN-2007 | 23:06:07; | Dark | ; | 42.5; | 45; | Alp | Pav | ; | 1.94; | 26000; | occ; | 85; | 0; | 27539 |
| 7; | 888.0; | 06-JUN-2007 | 23:11:53; | Dark | ; | 40.0; | 141; | Bet | Ara | ; | 2.84; | 4600; | occ; | 80; | 0; | 27539 |
| 8; | 966.0; | 06-JUN-2007 | 23:13:11; | Dark | ; | 37.5; | 147; | Alp | Ara | ; | 2.88; | 26000; | occ; | 75; | 0; | 27539 |
| 9; | 1068.9; | 06-JUN-2007 | 23:14:54; | Dark | ; | 44.0; | 40; | The | Sco | ; | 1.86; | 7100; | occ; | 88; | 0; | 27539 |
| 10; | 1174.9; | 06-JUN-2007 | 23:16:40; | Dark | ; | 44.0; | 25; | 35Lam | Sco | ; | 1.62; | 28000; | occ; | 88; | 0; | 27539 |
| 11; | 1273.0; | 06-JUN-2007 | 23:18:18; | Dark | ; | 43.5; | 75; | 26Eps | Sco | ; | 2.29; | 4250; | occ; | 87; | 0; | 27539 |
| 12; | 1390.6; | 06-JUN-2007 | 23:20:16; | Dark | ; | 45.5; | 136; | 23Tau | Sco | ; | 2.82; | 30000; | occ; | 91; | 0; | 27539 |
| 13; | 1511.3; | 06-JUN-2007 | 23:22:17; | Bright; | | 37.5; | 80; | 7Del | Sco | ; | 2.32; | 30000; | occ; | 75; | 0; | 27539 |
| 14; | 1598.8; | 06-JUN-2007 | 23:23:44; | Bright; | | 43.0; | 86; | 35Eta | Oph | ; | 2.43; | 10200; | occ; | 86; | 0; | 27539 |
| 15; | 1706.6; | 06-JUN-2007 | 23:25:32; | Bright; | | 40.0; | 98; | 13Zet | Oph | ; | 2.57; | 30000; | occ; | 80; | 0; | 27539 |
| 16; | 1834.7; | 06-JUN-2007 | 23:27:40; | Bright; | | 37.5; | 120; | 1Del | Oph | ; | 2.73; | 3200; | occ; | 75; | 0; | 27539 |
| 17; | 2015.0; | 06-JUN-2007 | 23:30:40; | Bright; | | 35.0; | 102; | 24Alp | Ser | ; | 2.60; | 4250; | occ; | 70; | 0; | 27539 |
| 18; | 2298.4; | 06-JUN-2007 | 23:35:24; | Bright; | | 40.0; | 127; | 27Bet | Her | ; | 2.78; | 4700; | occ; | 80; | 0; | 27539 |
| 19; | 2494.7; | 06-JUN-2007 | 23:38:40; | Bright; | | 42.0; | 133; | 40Zet | Her | ; | 2.81; | 6000; | occ; | 84; | 0; | 27539 |
| 20; | 2984.6; | 06-JUN-2007 | 23:46:50; | Bright; | | 37.0; | 119; | 14Eta | Dra | ; | 2.73; | 4700; | occ; | 74; | 0; | 27539 |
| 21; | 3165.2; | 06-JUN-2007 | 23:49:51; | Bright; | | 35.5; | 60; | 7Bet | UMi | ; | 2.08; | 3950; | occ; | 71; | 0; | 27539 |
| 22; | 3446.7; | 06-JUN-2007 | 23:54:32; | Bright; | | 32.0; | 49; | 1Alp | UMi | ; | 1.99; | 6300; | occ; | 64; | 0; | 27539 |
| 23; | 3919.9; | 07-JUN-2007 | 00:02:25; | Bright; | | 41.5; | 76; | 27Gam | Cas | ; | 2.30; | 30000; | occ; | 83; | 0; | 27539 |
| 24; | 4263.2; | 07-JUN-2007 | 00:08:09; | Bright; | | 36.0; | 73; | 57Gam1 | And | ; | 2.26; | 13100; | occ; | 72; | 0; | 27539 |
| 25; | 4401.5; | 07-JUN-2007 | 00:10:27; | Dark | ; | 47.0; | 53; | 43Bet | And | ; | 2.05; | 3300; | occ; | 94; | 0; | 27539 |
| 26; | 4648.9; | 07-JUN-2007 | 00:14:34; | Dark | ; | 42.0; | 105; | 6Bet | Ari | ; | 2.64; | 8900; | occ; | 84; | 0; | 27539 |

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| 1; | -2114.4; | 06-JUN-2007 | 07:16:28; | Bright; | | 57.0; | 76; | 27Gam | Cas | ; | 2.30; | 30000; | occ; | 114; | 0; | 27529 |
| 2; | -1773.9; | 06-JUN-2007 | 07:22:08; | Bright; | | 37.0; | 73; | 57Gam1 | And | ; | 2.26; | 13100; | occ; | 74; | 0; | 27529 |
| 3; | -1635.2; | 06-JUN-2007 | 07:24:27; | Dark | ; | 46.5; | 53; | 43Bet | And | ; | 2.05; | 3300; | occ; | 93; | 0; | 27529 |
| 4; | -1389.3; | 06-JUN-2007 | 07:28:33; | Dark | ; | 42.0; | 105; | 6Bet | Ari | ; | 2.64; | 8900; | occ; | 84; | 0; | 27529 |
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| 6; | -351.1; | 06-JUN-2007 | 07:45:51; | Dark | ; | 59.5; | 0; | | | ; | 0.00; | 0; | occ; | 119; | 0; | 27529 |
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| 8; | 138.5; | 06-JUN-2007 | 07:54:01; | Dark | ; | 64.0; | 63; | Bet | Gru | ; | 2.15; | 2800; | occ; | 128; | 0; | 27530 |
| 9; | 256.0; | 06-JUN-2007 | 07:55:58; | Dark | ; | 48.0; | 31; | Alp | Gru | ; | 1.73; | 15200; | occ; | 96; | 0; | 27530 |
| 10; | 535.3; | 06-JUN-2007 | 08:00:37; | Dark | ; | 43.5; | 45; | Alp | Pav | ; | 1.94; | 26000; | occ; | 87; | 0; | 27530 |
| 11; | 885.1; | 06-JUN-2007 | 08:06:27; | Dark | ; | 46.5; | 141; | Bet | Ara | ; | 2.84; | 4600; | occ; | 93; | 0; | 27530 |
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| 13; | 1065.6; | 06-JUN-2007 | 08:09:28; | Dark | ; | 46.0; | 40; | The | Sco | ; | 1.86; | 7100; | occ; | 92; | 0; | 27530 |


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 4; 2015.0; 06-JUN-2007 08:25:17; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27530
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| 18; | 4293.9; | 29-JUN-2007 | 22:05:04; | Bright; | | 44.0; | 79; | 26Bet Per | ; | 2.31; | 13100;occ; | 88; | 0; | 27867 |
| 19; | 4968.5; | 29-JUN-2007 | 22:16:19; | Dark | ; | 45.5; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 91; | 0; | 27867 |
| 20; | 5195.2; | 29-JUN-2007 | 22:20:06; | Dark | ; | 2.0; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ; | 4; | 0; | 27867 |

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070629_222006_000060732059_00258_27867_3876.N1

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|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|-------|------------|------|----|-------|
| 1; | -840.7; | 29-JUN-2007 | 22:20:06; | Dark | ; | 40.5; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ; | 81; | 0; | 27867 |
| 2; | -332.5; | 29-JUN-2007 | 22:28:34; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27867 |
| 3; | 25.6; | 29-JUN-2007 | 22:34:32; | Dark | ; | 42.0; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 84; | 0; | 27868 |
| 4; | 470.6; | 29-JUN-2007 | 22:41:57; | Dark | ; | 43.0; | 148; | Alp Tuc | ; | 2.88; | 4100;occ; | 86; | 0; | 27868 |
| 5; | 734.9; | 29-JUN-2007 | 22:46:21; | Dark | ; | 41.5; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 83; | 0; | 27868 |
| 6; | 1058.8; | 29-JUN-2007 | 22:51:45; | Dark | ; | 38.0; | 147; | Alp Ara | ; | 2.88; | 26000;occ; | 76; | 0; | 27868 |
| 7; | 1166.5; | 29-JUN-2007 | 22:53:33; | Dark | ; | 42.0; | 40; | The Sco | ; | 1.86; | 7100;occ; | 84; | 0; | 27868 |
| 8; | 1266.4; | 29-JUN-2007 | 22:55:13; | Dark | ; | 40.5; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 81; | 0; | 27868 |
| 9; | 1350.5; | 29-JUN-2007 | 22:56:37; | Dark | ; | 47.5; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 95; | 0; | 27868 |
| 10; | 1639.7; | 29-JUN-2007 | 23:01:26; | Bright; | | 36.5; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 73; | 0; | 27868 |
| 11; | 1744.6; | 29-JUN-2007 | 23:03:11; | Bright; | | 35.0; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 70; | 0; | 27868 |
| 12; | 1982.6; | 29-JUN-2007 | 23:07:09; | Bright; | | 37.0; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 74; | 0; | 27868 |
| 13; | 2123.3; | 29-JUN-2007 | 23:09:30; | Bright; | | 36.5; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 73; | 0; | 27868 |
| 14; | 2281.0; | 29-JUN-2007 | 23:12:07; | Bright; | | 37.5; | 127; | 27Bet Her | ; | 2.78; | 4700;occ; | 75; | 0; | 27868 |
| 15; | 2447.0; | 29-JUN-2007 | 23:14:53; | Bright; | | 37.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 74; | 0; | 27868 |
| 16; | 2812.6; | 29-JUN-2007 | 23:20:59; | Bright; | | 35.0; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 70; | 0; | 27868 |
| 17; | 2951.8; | 29-JUN-2007 | 23:23:18; | Bright; | | 34.5; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 69; | 0; | 27868 |
| 18; | 3188.6; | 29-JUN-2007 | 23:27:15; | Bright; | | 33.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 67; | 0; | 27868 |
| 19; | 3445.5; | 29-JUN-2007 | 23:31:32; | Bright; | | 34.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 69; | 0; | 27868 |
| 20; | 4063.6; | 29-JUN-2007 | 23:41:50; | Bright; | | 36.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 72; | 0; | 27868 |
| 21; | 4164.9; | 29-JUN-2007 | 23:43:31; | Bright; | | 33.0; | 175; | 39Del Per | ; | 3.01; | 19400;occ; | 66; | 0; | 27868 |
| 22; | 4294.0; | 29-JUN-2007 | 23:45:40; | Bright; | | 30.0; | 79; | 26Bet Per | ; | 2.31; | 13100;occ; | 60; | 0; | 27868 |
| 23; | 4968.9; | 29-JUN-2007 | 23:56:55; | Dark | ; | 48.5; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 97; | 0; | 27868 |
| 24; | 5195.4; | 30-JUN-2007 | 00:00:42; | Dark | ; | 37.5; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ; | 75; | 0; | 27868 |

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070629_161248_000055432059_00255_27864_8210.N1

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|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|-------|------------|------|----|-------|
| 1; | 1265.8; | 29-JUN-2007 | 16:12:48; | Dark | ; | 43.0; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 86; | 0; | 27864 |
| 2; | 1349.7; | 29-JUN-2007 | 16:14:12; | Dark | ; | 53.5; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 107; | 0; | 27864 |
| 3; | 1639.1; | 29-JUN-2007 | 16:19:02; | Bright; | | 37.0; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 74; | 0; | 27864 |
| 4; | 1744.0; | 29-JUN-2007 | 16:20:47; | Bright; | | 36.5; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 73; | 0; | 27864 |
| 5; | 1982.9; | 29-JUN-2007 | 16:24:46; | Bright; | | 37.5; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 75; | 0; | 27864 |
| 6; | 2123.5; | 29-JUN-2007 | 16:27:06; | Bright; | | 38.5; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 77; | 0; | 27864 |
| 7; | 2280.6; | 29-JUN-2007 | 16:29:43; | Bright; | | 36.0; | 127; | 27Bet Her | ; | 2.78; | 4700;occ; | 72; | 0; | 27864 |
| 8; | 2446.8; | 29-JUN-2007 | 16:32:29; | Bright; | | 36.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 72; | 0; | 27864 |
| 9; | 2813.5; | 29-JUN-2007 | 16:38:36; | Bright; | | 38.0; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 76; | 0; | 27864 |
| 10; | 2951.8; | 29-JUN-2007 | 16:40:54; | Bright; | | 36.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 72; | 0; | 27864 |
| 11; | 3188.2; | 29-JUN-2007 | 16:44:51; | Bright; | | 33.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 67; | 0; | 27864 |
| 12; | 3445.7; | 29-JUN-2007 | 16:49:08; | Bright; | | 35.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 71; | 0; | 27864 |
| 13; | 4064.1; | 29-JUN-2007 | 16:59:27; | Bright; | | 50.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 100; | 0; | 27864 |
| 14; | 4164.7; | 29-JUN-2007 | 17:01:07; | Bright; | | 33.0; | 175; | 39Del Per | ; | 3.01; | 19400;occ; | 66; | 0; | 27864 |
| 15; | 4293.7; | 29-JUN-2007 | 17:03:16; | Bright; | | 45.0; | 79; | 26Bet Per | ; | 2.31; | 13100;occ; | 90; | 0; | 27864 |
| 16; | 4967.5; | 29-JUN-2007 | 17:14:30; | Dark | ; | 51.5; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 103; | 0; | 27864 |
| 17; | 5194.7; | 29-JUN-2007 | 17:18:17; | Dark | ; | 40.0; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ; | 80; | 0; | 27864 |
| 18; | 5701.9; | 29-JUN-2007 | 17:26:44; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27864 |
| 19; | 6060.3; | 29-JUN-2007 | 17:32:43; | Dark | ; | 41.5; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 83; | 0; | 27864 |
| 20; | 6505.0; | 29-JUN-2007 | 17:40:08; | Dark | ; | 40.5; | 148; | Alp Tuc | ; | 2.88; | 4100;occ; | 81; | 0; | 27864 |
| 21; | 6769.4; | 29-JUN-2007 | 17:44:32; | Dark | ; | 39.5; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 79; | 0; | 27864 |

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070629_174957_000057502059_00256_27865_8211.N1

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|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|-------|------------|------|----|-------|
| 1; | 1058.3; | 29-JUN-2007 | 17:49:57; | Dark | ; | 36.5; | 147; | Alp Ara | ; | 2.88; | 26000;occ; | 73; | 0; | 27865 |
| 2; | 1165.9; | 29-JUN-2007 | 17:51:45; | Dark | ; | 42.5; | 40; | The Sco | ; | 1.86; | 7100;occ; | 85; | 0; | 27865 |
| 3; | 1265.9; | 29-JUN-2007 | 17:53:25; | Dark | ; | 39.5; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 79; | 0; | 27865 |
| 4; | 1349.9; | 29-JUN-2007 | 17:54:49; | Dark | ; | 45.5; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 91; | 0; | 27865 |
| 5; | 1639.3; | 29-JUN-2007 | 17:59:38; | Bright; | | 36.5; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 73; | 0; | 27865 |
| 6; | 1744.2; | 29-JUN-2007 | 18:01:23; | Bright; | | 35.5; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 71; | 0; | 27865 |
| 7; | 1982.8; | 29-JUN-2007 | 18:05:21; | Bright; | | 38.0; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 76; | 0; | 27865 |
| 8; | 2123.4; | 29-JUN-2007 | 18:07:42; | Bright; | | 36.5; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 73; | 0; | 27865 |
| 9; | 2280.8; | 29-JUN-2007 | 18:10:19; | Bright; | | 37.5; | 127; | 27Bet Her | ; | 2.78; | 4700;occ; | 75; | 0; | 27865 |
| 10; | 2446.8; | 29-JUN-2007 | 18:13:05; | Bright; | | 34.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 68; | 0; | 27865 |
| 11; | 2813.3; | 29-JUN-2007 | 18:19:12; | Bright; | | 37.5; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 75; | 0; | 27865 |
| 12; | 2951.7; | 29-JUN-2007 | 18:21:30; | Bright; | | 36.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 72; | 0; | 27865 |
| 13; | 3188.2; | 29-JUN-2007 | 18:25:27; | Bright; | | 35.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 71; | 0; | 27865 |
| 14; | 3445.6; | 29-JUN-2007 | 18:29:44; | Bright; | | 35.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 71; | 0; | 27865 |
| 15; | 4063.9; | 29-JUN-2007 | 18:40:03; | Bright; | | 37.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 74; | 0; | 27865 |
| 16; | 4164.6; | 29-JUN-2007 | 18:41:43; | Bright; | | 37.0; | 175; | 39Del Per | ; | 3.01; | 19400;occ; | 74; | 0; | 27865 |
| 17; | 4293.7; | 29-JUN-2007 | 18:43:52; | Bright; | | 36.0; | 79; | 26Bet Per | ; | 2.31; | 13100;occ; | 72; | 0; | 27865 |
| 18; | 4967.8; | 29-JUN-2007 | 18:55:06; | Dark | ; | 49.5; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 99; | 0; | 27865 |
| 19; | 5194.8; | 29-JUN-2007 | 18:58:53; | Dark | ; | 40.5; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ; | 81; | 0; | 27865 |
| 20; | 5702.4; | 29-JUN-2007 | 19:07:21; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27865 |
| 21; | 6060.7; | 29-JUN-2007 | 19:13:19; | Dark | ; | 46.0; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 92; | 0; | 27865 |
| 22; | 6505.5; | 29-JUN-2007 | 19:20:44; | Dark | ; | 42.5; | 148; | Alp Tuc | ; | 2.88; | 4100;occ; | 85; | 0; | 27865 |
| 23; | 6769.8; | 29-JUN-2007 | 19:25:08; | Dark | ; | 39.0; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 78; | 0; | 27865 |

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070629_193033_000054872059_00257_27866_8212.N1

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|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|-------|------------|------|----|-------|
| 1; | 1058.5; | 29-JUN-2007 | 19:30:33; | Dark | ; | 37.5; | 147; | Alp Ara | ; | 2.88; | 26000;occ; | 75; | 0; | 27866 |
| 2; | 1166.2; | 29-JUN-2007 | 19:32:21; | Dark | ; | 43.0; | 40; | The Sco | ; | 1.86; | 7100;occ; | 86; | 0; | 27866 |
| 3; | 1266.1; | 29-JUN-2007 | 19:34:01; | Dark | ; | 39.5; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 79; | 0; | 27866 |
| 4; | 1350.1; | 29-JUN-2007 | 19:35:25; | Dark | ; | 49.0; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 98; | 0; | 27866 |
| 5; | 1639.4; | 29-JUN-2007 | 19:40:14; | Bright; | | 37.0; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 74; | 0; | 27866 |
| 6; | 1744.2; | 29-JUN-2007 | 19:41:59; | Bright; | | 35.0; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 70; | 0; | 27866 |
| 7; | 1982.7; | 29-JUN-2007 | 19:45:57; | Bright; | | 38.0; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 76; | 0; | 27866 |
| 8; | 2123.5; | 29-JUN-2007 | 19:48:18; | Bright; | | 38.0; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 76; | 0; | 27866 |
| 9; | 2280.8; | 29-JUN-2007 | 19:50:55; | Bright; | | 36.5; | 127; | 27Bet Her | ; | 2.78; | 4700;occ; | 73; | 0; | 27866 |
| 10; | 2446.9; | 29-JUN-2007 | 19:53:41; | Bright; | | 34.5; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 69; | 0; | 27866 |
| 11; | 2813.1; | 29-JUN-2007 | 19:59:48; | Bright; | | 37.5; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 75; | 0; | 27866 |
| 12; | 2951.8; | 29-JUN-2007 | 20:02:06; | Bright; | | 36.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 72; | 0; | 27866 |
| 13; | 3188.4; | 29-JUN-2007 | 20:06:03; | Bright; | | 35.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 71; | 0; | 27866 |
| 14; | 3445.6; | 29-JUN-2007 | 20:10:20; | Bright; | | 36.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 72; | 0; | 27866 |
| 15; | 4064.0; | 29-JUN-2007 | 20:20:39; | Bright; | | 35.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 70; | 0; | 27866 |
| 16; | 4164.8; | 29-JUN-2007 | 20:22:19; | Bright; | | 33.5; | 175; | 39Del Per | ; | 3.01; | 19400;occ; | 67; | 0; | 27866 |
| 17; | 4294.0; | 29-JUN-2007 | 20:24:29; | Bright; | | 44.0; | 79; | 26Bet Per | ; | 2.31; | 13100;occ; | 88; | 0; | 27866 |
| 18; | 4968.0; | 29-JUN-2007 | 20:35:43; | Dark | ; | 48.5; | 94; | 92Alp Cet | ; | 2.53; | 3100;occ; | 97; | 0; | 27866 |
| 19; | 5194.9; | 29-JUN-2007 | 20:39:30; | Dark | ; | 42.5; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ; | 85; | 0; | 27866 |
| 20; | 5702.9; | 29-JUN-2007 | 20:47:58; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27866 |
| 21; | 6061.1; | 29-JUN-2007 | 20:53:56; | Dark | ; | 51.0; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 102; | 0; | 27866 |
| 22; | 6506.0; | 29-JUN-2007 | 21:01:21; | Dark | ; | 40.5; | 148; | Alp Tuc | ; | 2.88; | 4100;occ; | 81; | 0; | 27866 |

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070630_000100_000058372059_00259_27868_3877.N1

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|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|-------|------------|------|-----|-------|
| 1; | -822.0; | 30-JUN-2007 | 00:01:00; | Dark | ; | 38.0; | 165; | 34Gam Eri | ; | 2.95; | 3200;occ; | 76; | 37; | 27868 |
| 2; | -331.9; | 30-JUN-2007 | 00:09:10; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27868 |
| 3; | 26.1; | 30-JUN-2007 | 00:15:08; | Dark | ; | 41.5; | 9; | Alp Eri | ; | 0.45; | 24000;occ; | 83; | 0; | 27869 |
| 4; | 471.2; | 30-JUN-2007 | 00:22:34; | Dark | ; | 41.5; | 148; | Alp Tuc | ; | 2.88; | 4100;occ; | 83; | 0; | 27869 |
| 5; | 735.3; | 30-JUN-2007 | 00:26:58; | Dark | ; | 40.0; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 80; | 0; | 27869 |
| 6; | 1059.0; | 30-JUN-2007 | 00:32:21; | Dark | ; | 36.5; | 147; | Alp Ara | ; | 2.88; | 26000;occ; | 73; | 0; | 27869 |
| 7; | 1166.7; | 30-JUN-2007 | 00:34:09; | Dark | ; | 41.5; | 40; | The Sco | ; | 1.86; | 7100;occ; | 83; | 0; | 27869 |
| 8; | 1266.6; | 30-JUN-2007 | 00:35:49; | Dark | ; | 39.0; | 25; | 35Lam Sco | ; | 1.62; | 28000;occ; | 78; | 0; | 27869 |
| 9; | 1350.7; | 30-JUN-2007 | 00:37:13; | Dark | ; | 53.0; | 116; | 19Del Sgr | ; | 2.70; | 4100;occ; | 106; | 0; | 27869 |
| 10; | 1639.8; | 30-JUN-2007 | 00:42:02; | Bright; | | 35.5; | 86; | 35Eta Oph | ; | 2.43; | 10200;occ; | 71; | 0; | 27869 |
| 11; | 1744.7; | 30-JUN-2007 | 00:43:47; | Bright; | | 35.5; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 71; | 0; | 27869 |
| 12; | 1982.5; | 30-JUN-2007 | 00:47:45; | Bright; | | 37.5; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 75; | 0; | 27869 |
| 13; | 2123.0; | 30-JUN-2007 | 00:50:05; | Bright; | | 37.5; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 75; | 0; | 27869 |
| 14; | 2281.1; | 30-JUN-2007 | 00:52:43; | Bright; | | 34.0; | 127; | 27Bet Her | ; | 2.78; | 4700;occ; | 68; | 0; | 27869 |
| 15; | 2447.0; | 30-JUN-2007 | 00:55:29; | Bright; | | 35.5; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 71; | 0; | 27869 |
| 16; | 2812.3; | 30-JUN-2007 | 01:01:35; | Bright; | | 36.0; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 72; | 0; | 27869 |
| 17; | 2951.8; | 30-JUN-2007 | 01:03:54; | Bright; | | 36.5; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 73; | 0; | 27869 |
| 18; | 3188.7; | 30-JUN-2007 | 01:07:51; | Bright; | | 37.0; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 74; | 0; | 27869 |
| 19; | 3445.6; | 30-JUN-2007 | 01:12:08; | Bright; | | 33.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 66; | 0; | 27869 |
| 20; | 4063.8; | 30-JUN-2007 | 01:22:26; | Bright; | | 55.0; | 160; | 23Gam Per | ; | 2.93; | 4700;occ; | 110; | 0; | 27869 |

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21; 4164.7; 30-JUN-2007 01:24:07; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;27869
22; 4293.9; 30-JUN-2007 01:26:16; Bright; 30.0; 79; 26Bet Per ; 2.31; 13100;occ; 60; 0;27869
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