

GOMOS Daily Report 27-JUN-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	29JUN2007 05:36:17
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (27JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (28JUN2007 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)

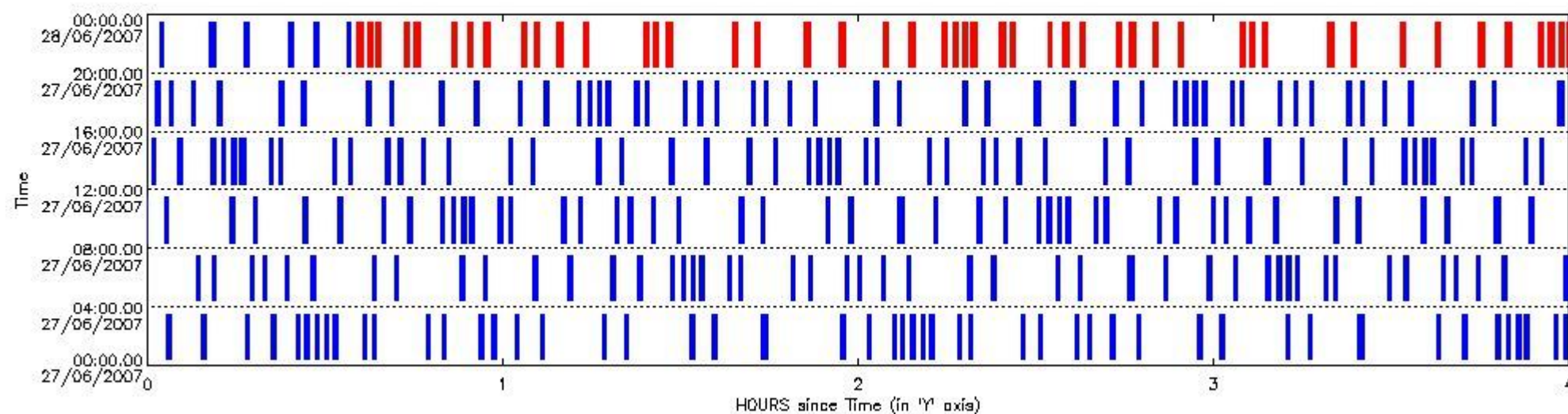
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

UTC start time	Star name	Star ID	Orbit
27-JUN-2007 20:35:20	TheSco	40	27838
27-JUN-2007 20:37:00	35LamSco	25	27838
27-JUN-2007 20:38:23	19DelSgr	116	27838
27-JUN-2007 20:43:15	35EtaOph	86	27838
27-JUN-2007 20:45:00	13ZetOph	98	27838
27-JUN-2007 20:51:26	55AlpOph	59	27838
27-JUN-2007 20:53:58	27BetHer	127	27838
27-JUN-2007 20:56:46	40ZetHer	133	27838
27-JUN-2007 21:02:58	23BetDra	130	27838
27-JUN-2007 21:05:11	14EtaDra	119	27838
27-JUN-2007 21:09:05	7BetUMi	60	27838
27-JUN-2007 21:13:26	1AlpUMi	49	27838
27-JUN-2007 21:23:45	23GamPer	160	27838
27-JUN-2007 21:25:23	39DelPer	175	27838
27-JUN-2007 21:27:32	26BetPer	79	27838

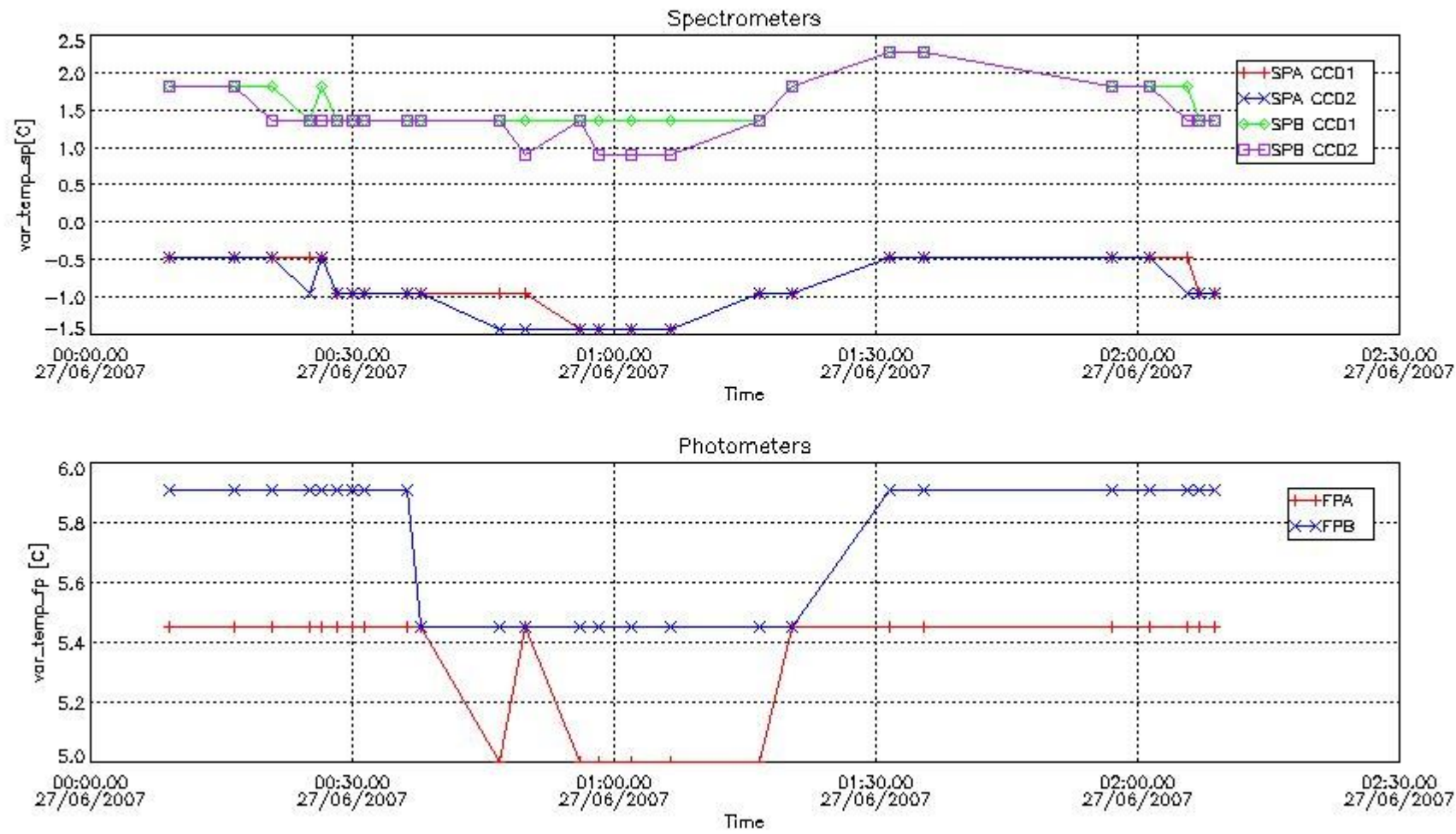
27-JUN-2007 21:38:37	92AlpCet	94	27838
27-JUN-2007 21:42:29	34GamEri	165	27838
27-JUN-2007 21:50:48	DSA1065	0	27838
27-JUN-2007 21:56:48	AlpEri	9	27839
27-JUN-2007 22:04:09	AlpTuc	148	27839
27-JUN-2007 22:08:36	AlpPav	45	27839
27-JUN-2007 22:14:09	AlpAra	147	27839
27-JUN-2007 22:15:56	TheSco	40	27839
27-JUN-2007 22:17:36	35LamSco	25	27839
27-JUN-2007 22:18:59	19DelSgr	116	27839
27-JUN-2007 22:23:51	35EtaOph	86	27839
27-JUN-2007 22:25:36	13ZetOph	98	27839
27-JUN-2007 22:32:01	55AlpOph	59	27839
27-JUN-2007 22:34:34	27BetHer	127	27839
27-JUN-2007 22:37:22	40ZetHer	133	27839
27-JUN-2007 22:43:34	23BetDra	130	27839
27-JUN-2007 22:45:47	14EtaDra	119	27839
27-JUN-2007 22:49:41	7BetUMi	60	27839
27-JUN-2007 22:54:02	1AlpUMi	49	27839
27-JUN-2007 23:04:20	23GamPer	160	27839
27-JUN-2007 23:05:59	39DelPer	175	27839
27-JUN-2007 23:08:08	26BetPer	79	27839
27-JUN-2007 23:19:14	92AlpCet	94	27839
27-JUN-2007 23:23:05	34GamEri	165	27839
27-JUN-2007 23:31:24	DSA1065	0	27839
27-JUN-2007 23:37:24	AlpEri	9	27840
27-JUN-2007 23:44:45	AlpTuc	148	27840
27-JUN-2007 23:49:12	AlpPav	45	27840
27-JUN-2007 23:54:45	AlpAra	147	27840
27-JUN-2007 23:56:32	TheSco	40	27840
27-JUN-2007 23:58:12	35LamSco	25	27840
27-JUN-2007 23:59:35	19DelSgr	116	27840

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_1PNPDE20070627_000903_000000492059_00217_27826_0503.N1	27-JUN-2007 00:09:03	Dark	48.500	9	Alp Eri	0.45300	24000.	97	27826	No
2	GOM_TRA_1PNPDE20070627_001622_000000412059_00217_27826_1605.N1	27-JUN-2007 00:16:22	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	27826	No
3	GOM_TRA_1PNPDE20070627_002050_000000412059_00217_27826_1606.N1	27-JUN-2007 00:20:50	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	27826	No
4	GOM_TRA_1PNPDE20070627_002501_000000422059_00217_27826_1607.N1	27-JUN-2007 00:25:01	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	27826	No
5	GOM_TRA_1PNPDE20070627_002627_000000382059_00217_27826_0507.N1	27-JUN-2007 00:26:27	Straylight	38.000	147	Alp Ara	2.8770	26000.	76	27826	No
6	GOM_TRA_1PNPDE20070627_002814_000000432059_00217_27826_1609.N1	27-JUN-2007 00:28:14	Twilight	43.000	40	The Sco	1.8590	7100.0	86	27826	No
7	GOM_TRA_1PNPDE20070627_002955_000000392059_00217_27826_1610.N1	27-JUN-2007 00:29:55	Twilight	39.000	25	35Lam Sco	1.6200	28000.	78	27826	No
8	GOM_TRA_1PNPDE20070627_003117_000000422059_00217_27826_1611.N1	27-JUN-2007 00:31:17	Bright	41.500	116	19Del Sgr	2.7000	4100.0	83	27826	No
9	GOM_TRA_1PNPDE20070627_003611_000000372059_00217_27826_1612.N1	27-JUN-2007 00:36:11	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27826	No
10	GOM_TRA_1PNPDE20070627_003755_000000362059_00217_27826_1613.N1	27-JUN-2007 00:37:55	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27826	No
11	GOM_TRA_1PNPDE20070627_004654_000000362059_00217_27826_1614.N1	27-JUN-2007 00:46:54	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	27826	No
12	GOM_TRA_1PNPDE20070627_004943_000000382059_00217_27826_0514.N1	27-JUN-2007 00:49:43	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	27826	No
13	GOM_TRA_1PNPDE20070627_005558_000000382059_00217_27826_1616.N1	27-JUN-2007 00:55:58	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27826	No
14	GOM_TRA_1PNPDE20070627_005809_000000372059_00217_27826_1617.N1	27-JUN-2007 00:58:09	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27826	No
15	GOM_TRA_1PNPDE20070627_010200_000000382059_00217_27826_1618.N1	27-JUN-2007 01:02:00	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	27826	No
16	GOM_TRA_1PNPDE20070627_010623_000000332059_00217_27826_1619.N1	27-JUN-2007 01:06:23	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27826	No
17	GOM_TRA_1PNPDE20070627_011642_000000402059_00217_27826_1620.N1	27-JUN-2007 01:16:42	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	27826	No
18	GOM_TRA_1PNPDE20070627_012029_000000362059_00217_27826_1621.N1	27-JUN-2007 01:20:29	Bright	36.000	79	26Bet Per	2.3100	13100.	72	27826	No
19	GOM_TRA_1PNPDE20070627_013130_000000462059_00217_27826_0521.N1	27-JUN-2007 01:31:30	Dark	46.000	94	92Alp Cet	2.5260	3100.0	92	27826	No
20	GOM_TRA_1PNPDE20070627_013523_000000412059_00217_27826_0645.N1	27-JUN-2007 01:35:23	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	27826	No
21	GOM_TRA_1PNPDE20070627_015659_000000472059_00218_27827_0646.N1	27-JUN-2007 01:56:59	Straylight	46.500	148	Alp Tuc	2.8780	4100.0	93	27827	No
22	GOM_TRA_1PNPDE20070627_020127_000000432059_00218_27827_0647.N1	27-JUN-2007 02:01:27	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27827	No

23	GOM_TRA_1PNPDE20070627_020542_000000362059_00218_27827_0648.N1	27-JUN-2007 02:05:42	Straylight	35.500	141	Bet Ara	2.8400	4600.0	71	27827	No
24	GOM_TRA_1PNPDE20070627_020703_000000372059_00218_27827_0649.N1	27-JUN-2007 02:07:03	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	27827	No
25	GOM_TRA_1PNPDE20070627_020850_000000412059_00218_27827_0650.N1	27-JUN-2007 02:08:50	Twilight_and_stray	41.000	40	The Sco	1.8590	7100.0	82	27827	No

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



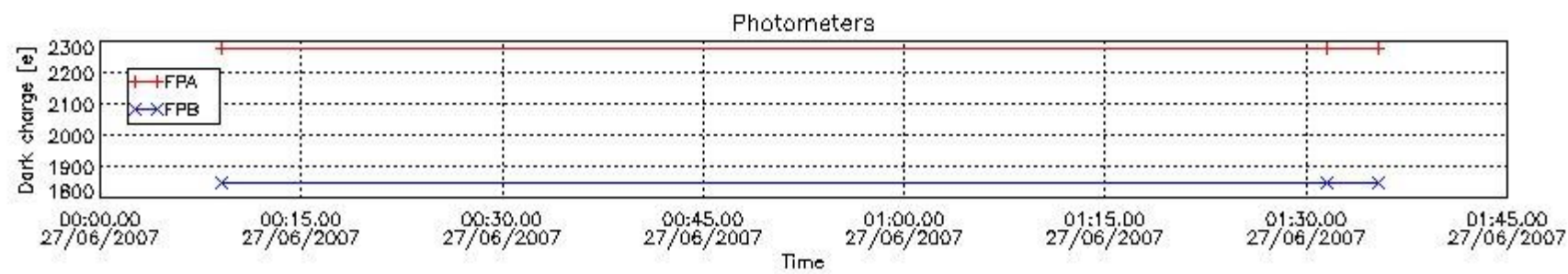
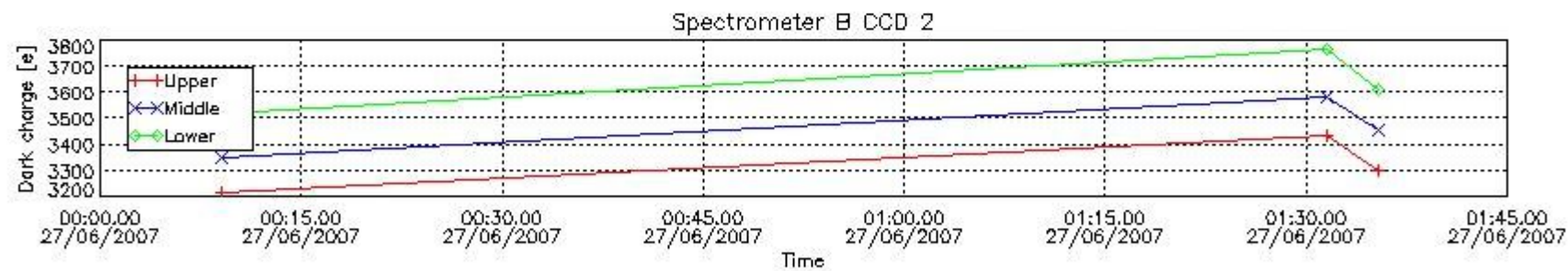
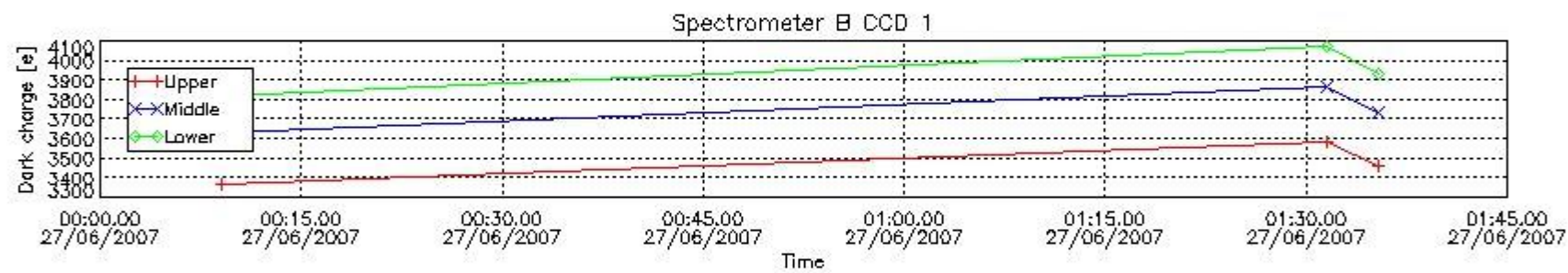
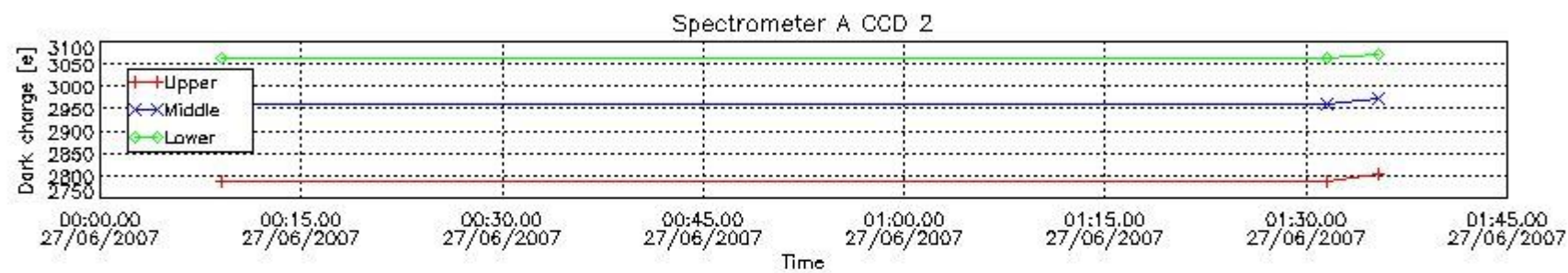
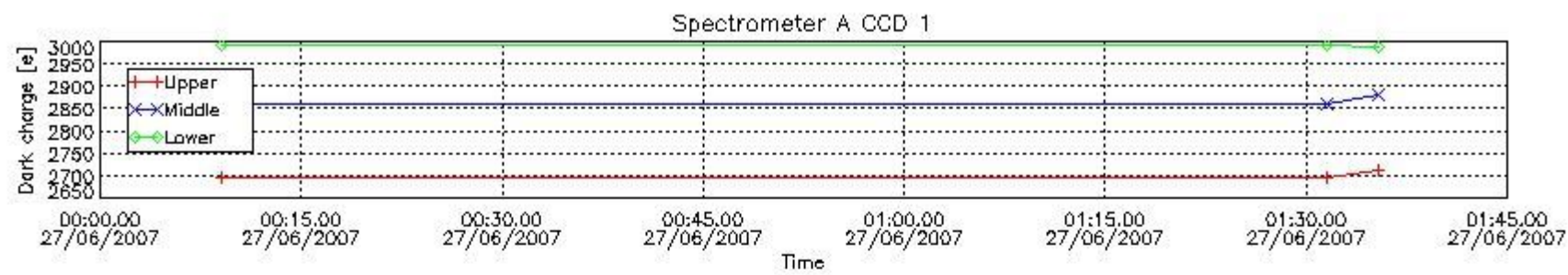
4. Overview of dark signal processing per product

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



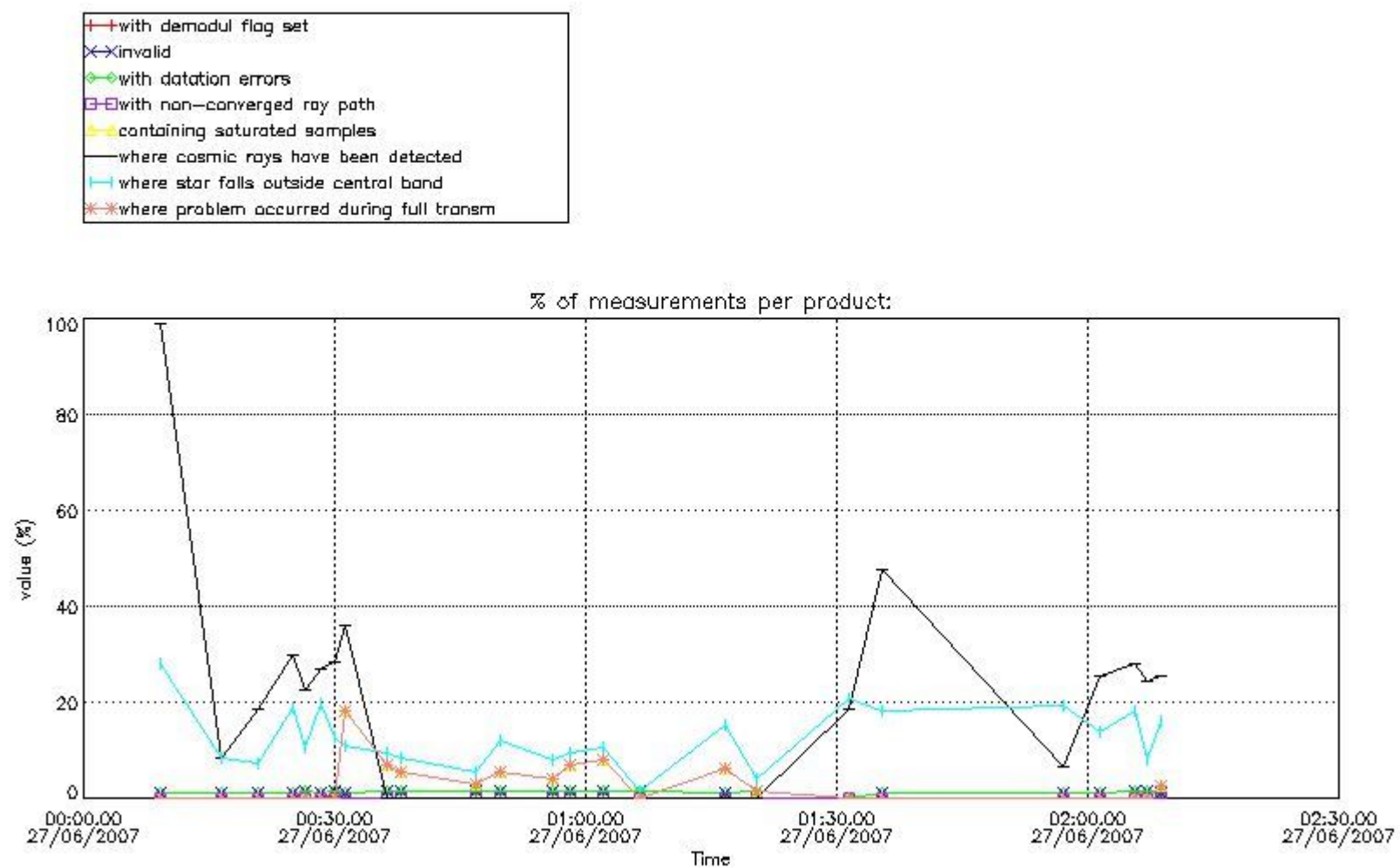
5. Demodulation flag and quality information monitoring

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.

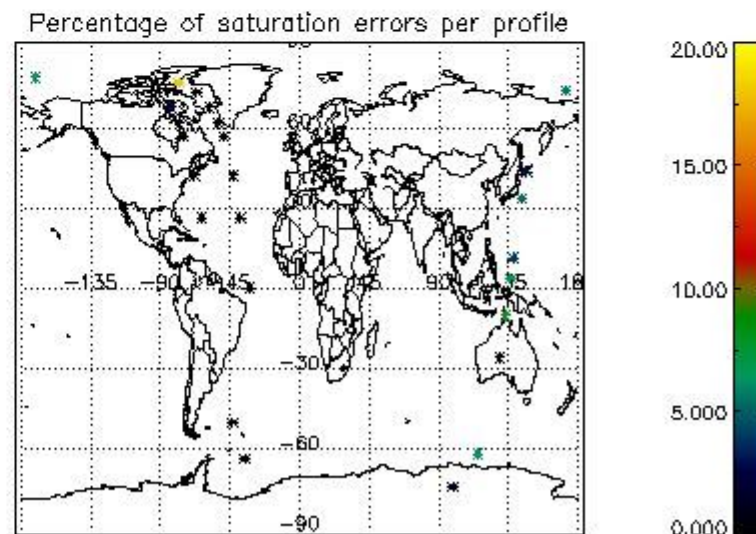
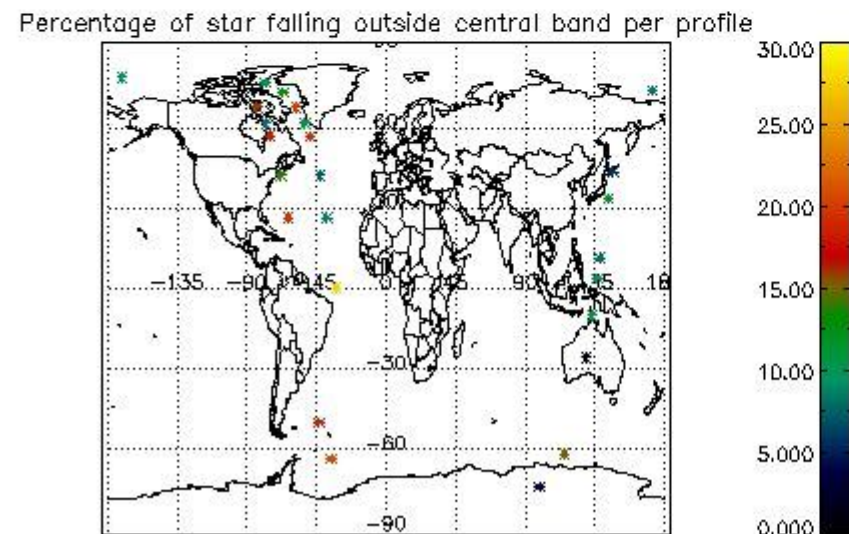
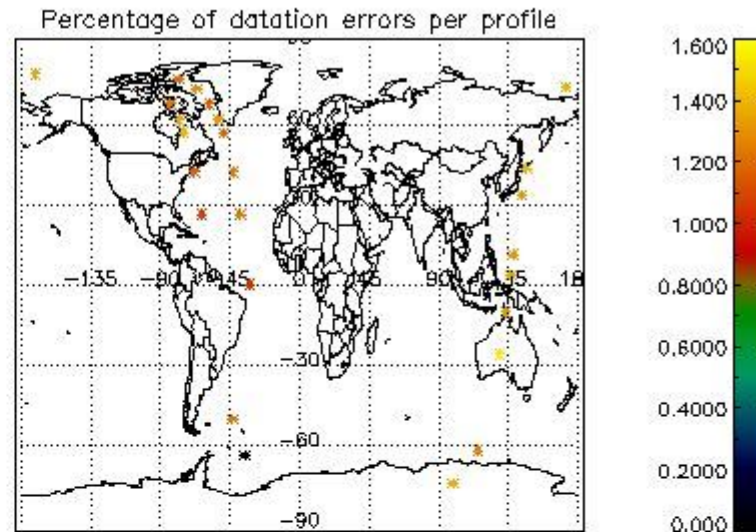
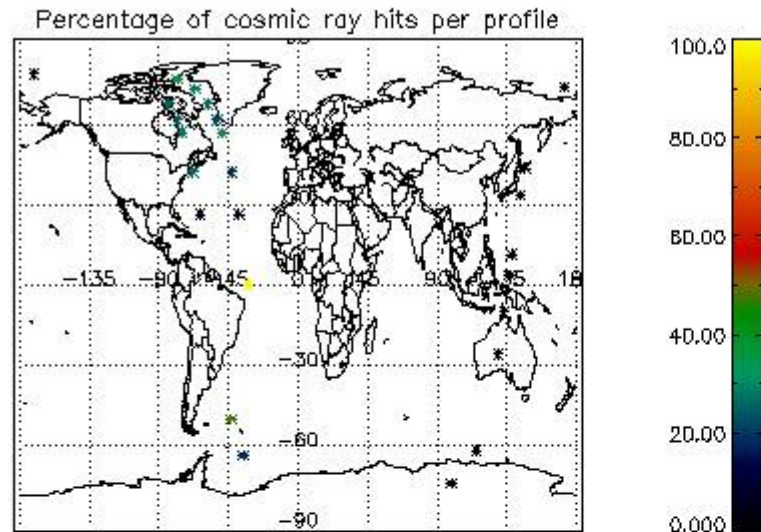
5.1 Percentage of products during reporting period with:

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)



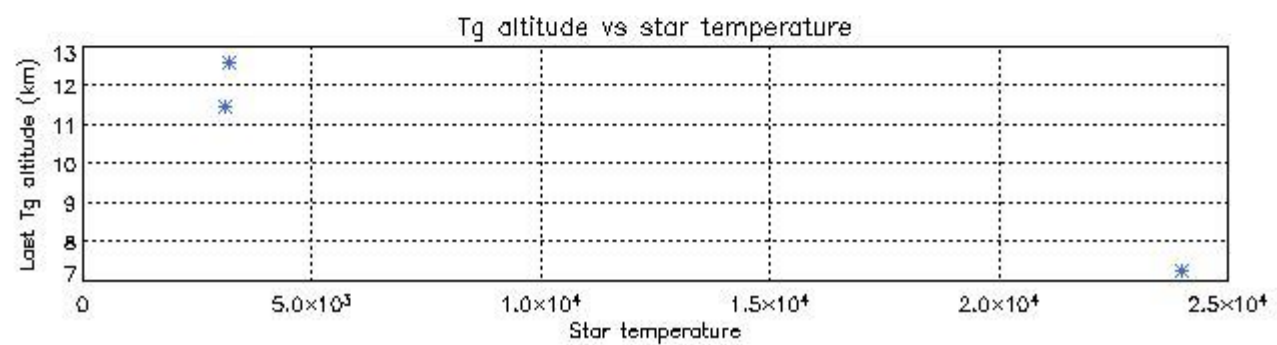
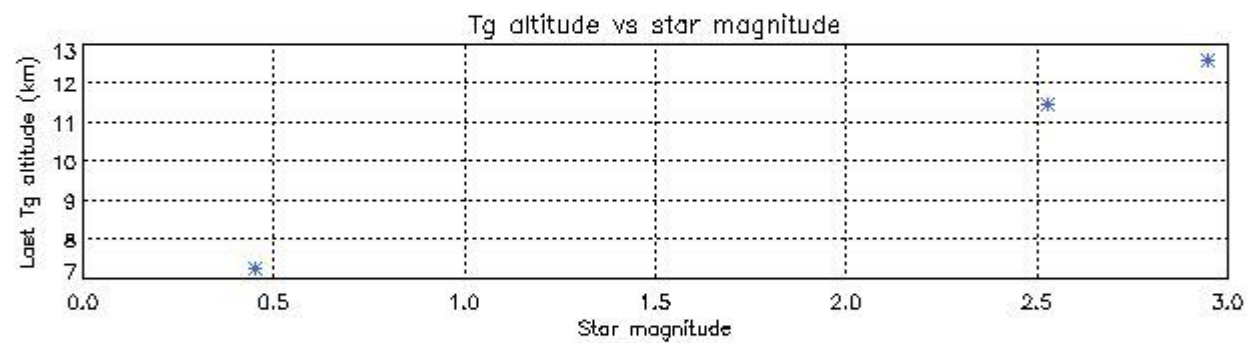
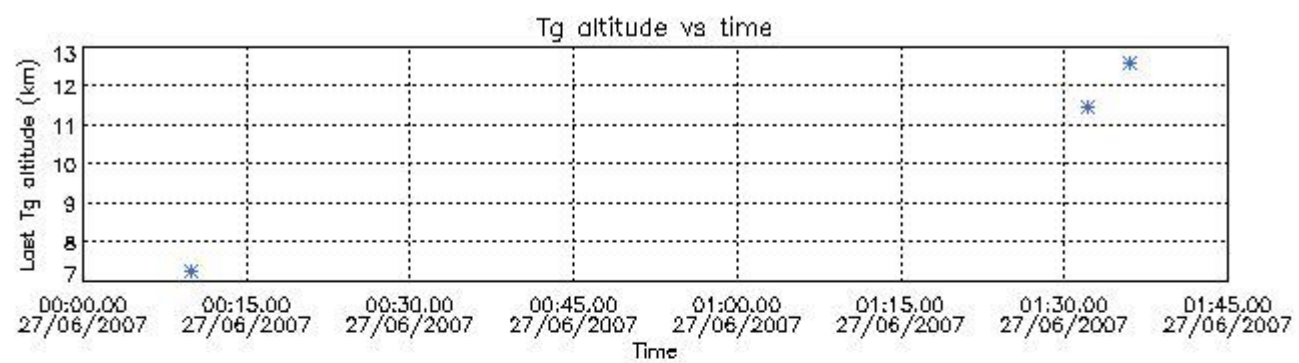
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	10.444	20.211	NaN
St. deviation:	2.7955	3.4604	NaN
Maximum:	12.588	28.852	NaN
Minimum:	7.2819	16.973	NaN
Number of data:	3.0000	11.000	NaN

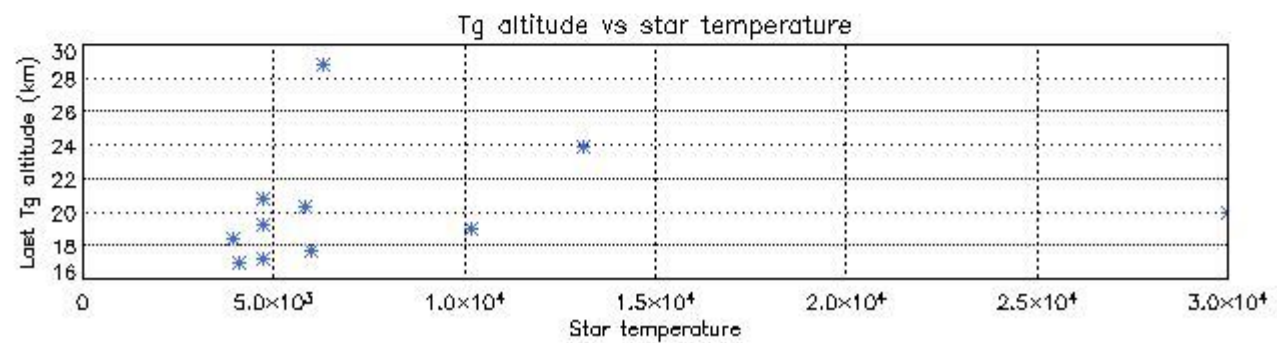
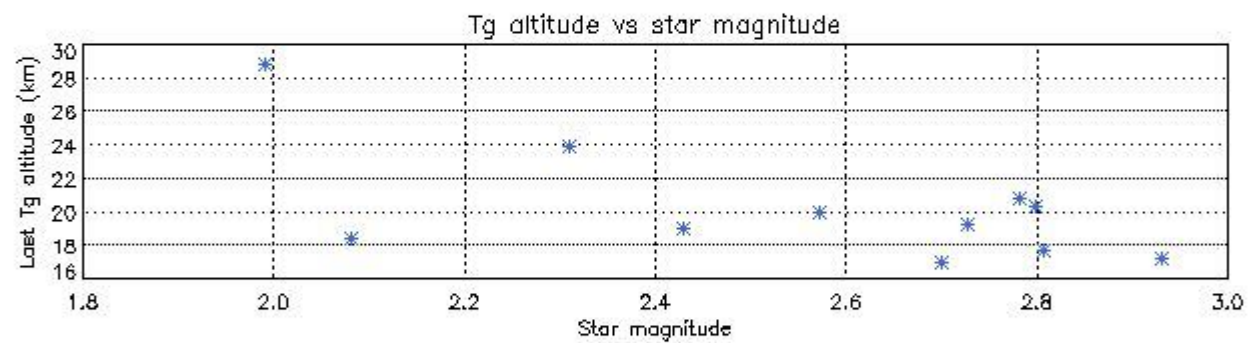
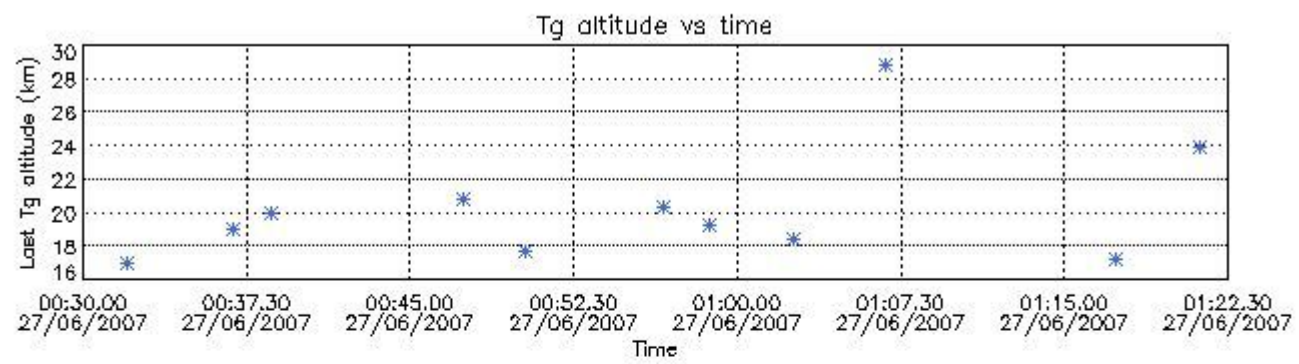
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

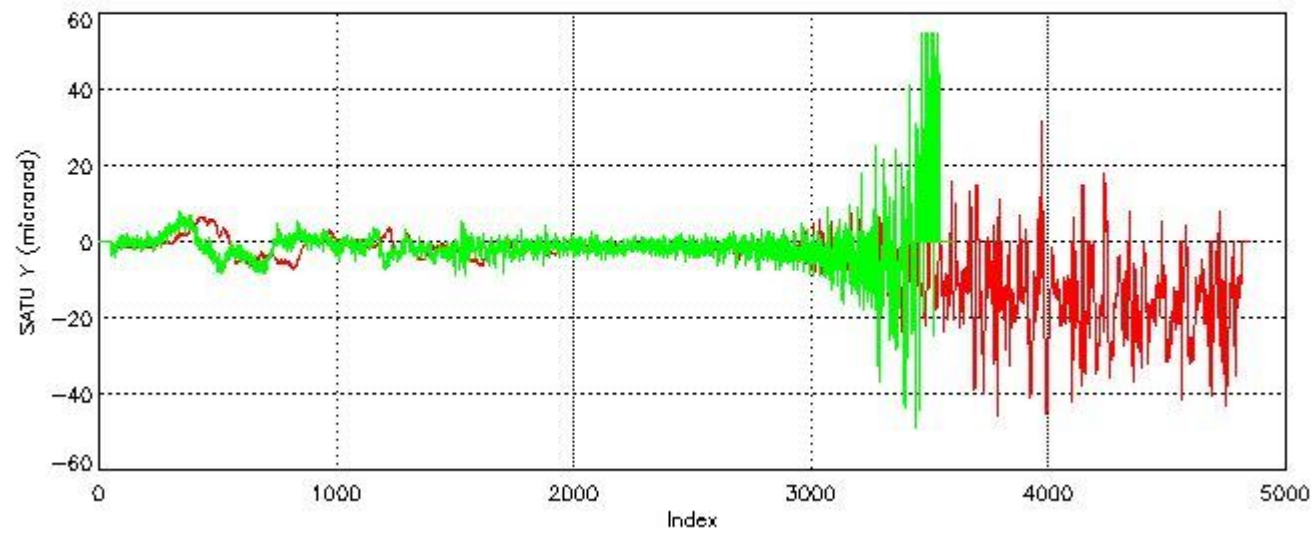
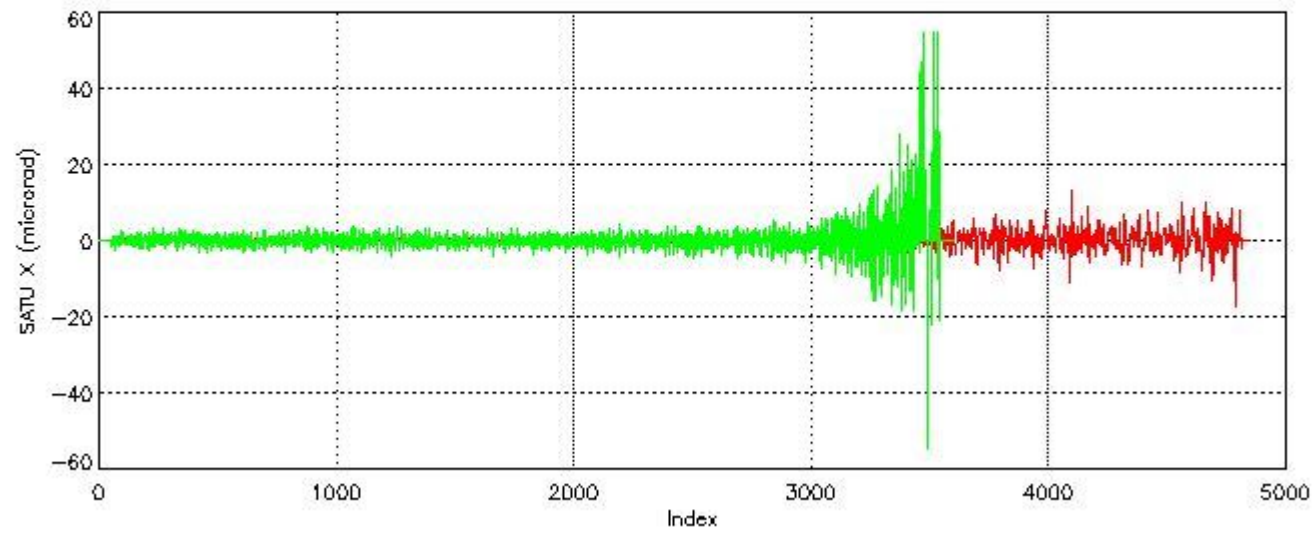


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.00012533	-1.2875	0.086848	-1.1551
St. deviation:	0.29653	2.8031	0.72506	2.8793
Maximum:	1.1000	6.5000	3.5000	8.7000
Minimum:	-1.3000	-8.1000	-3.3000	-8.6000

Number of data:	2700.0	2700.0	9150.0	9150.0
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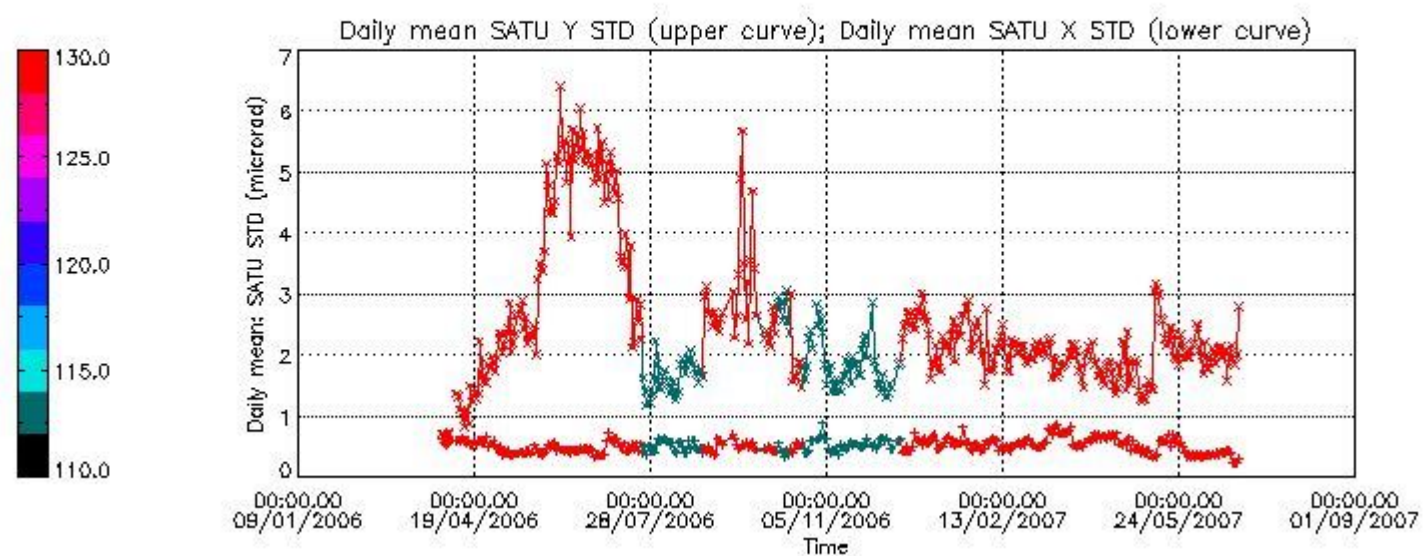
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

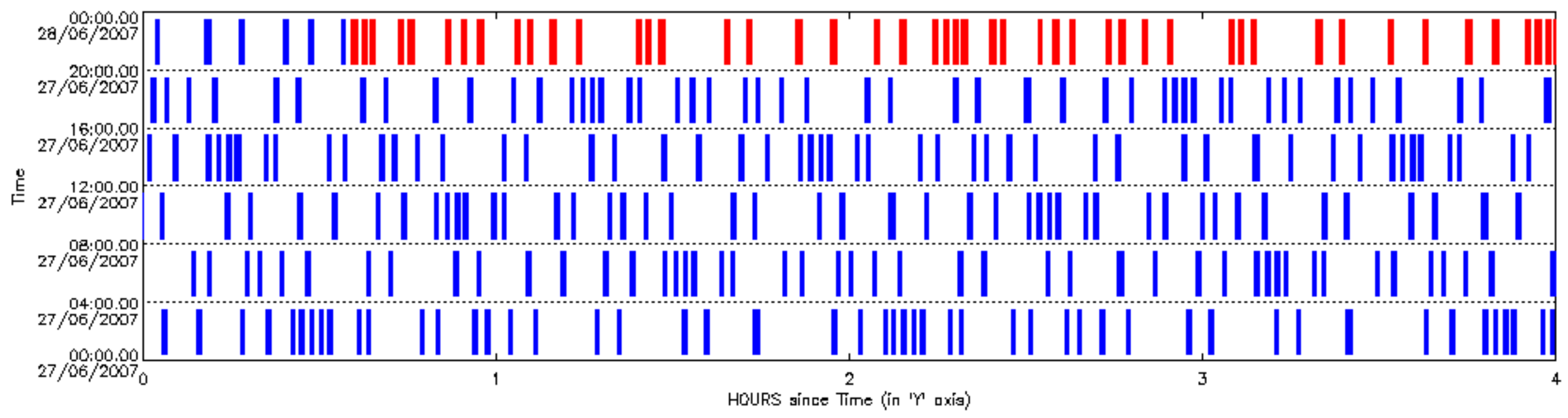
Lower curve: STD of SATU X axis

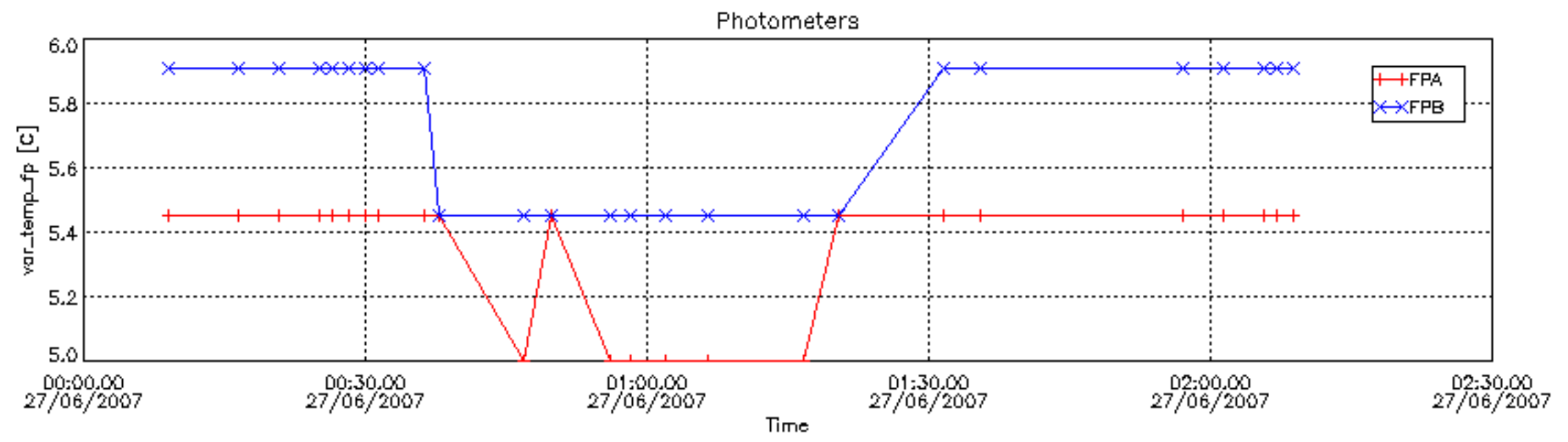
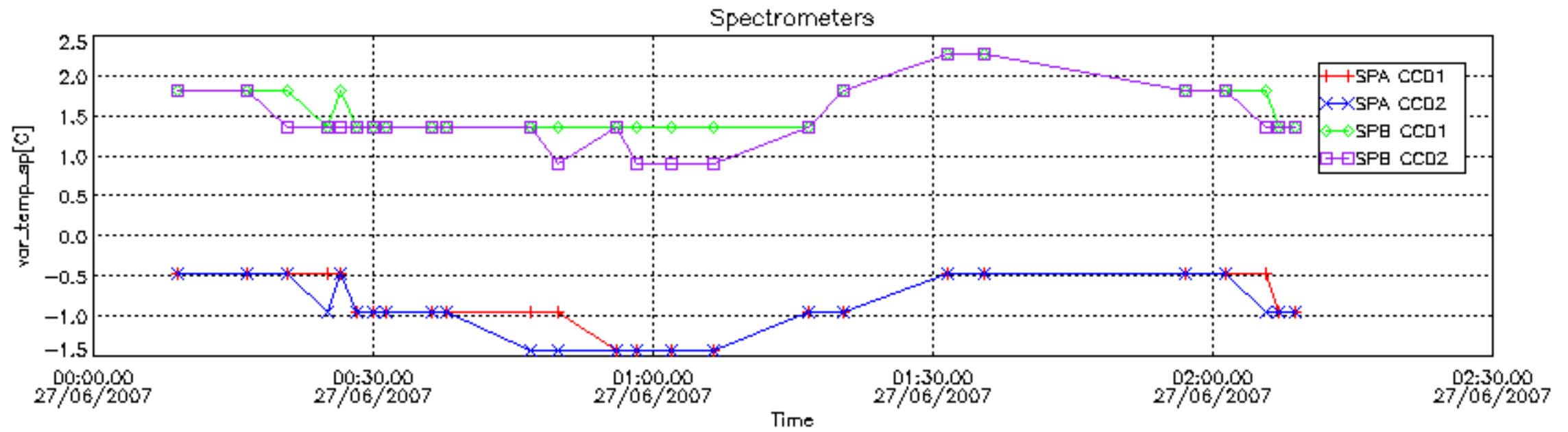


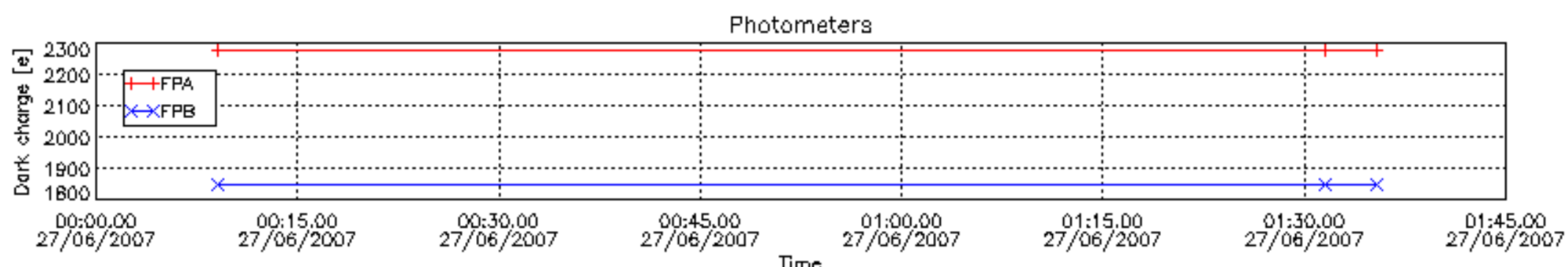
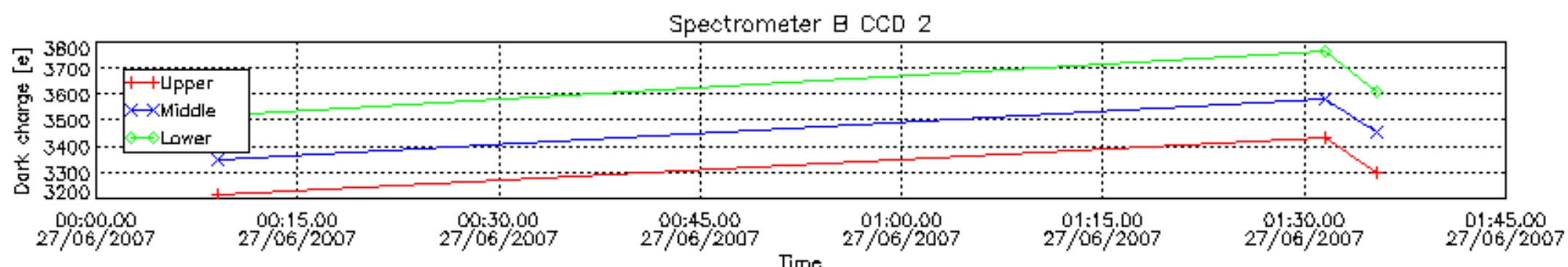
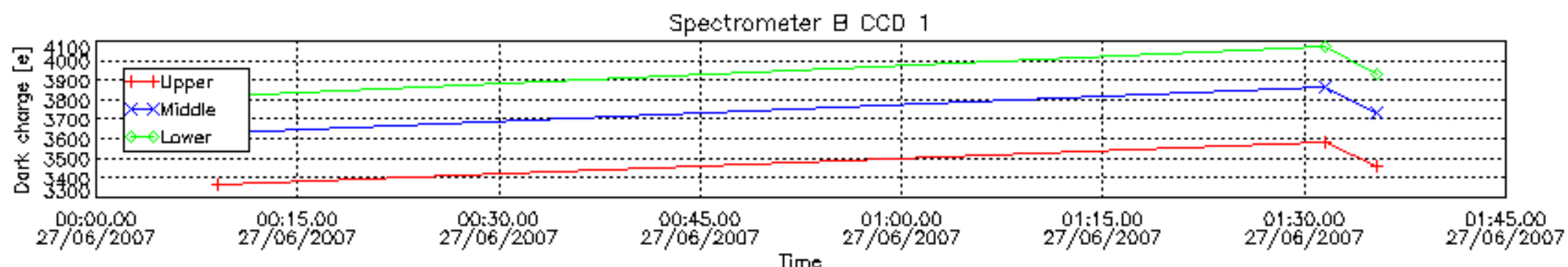
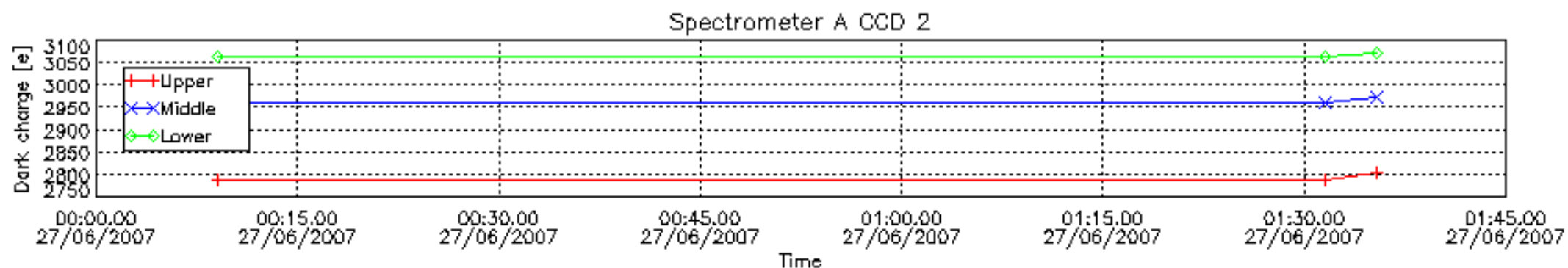
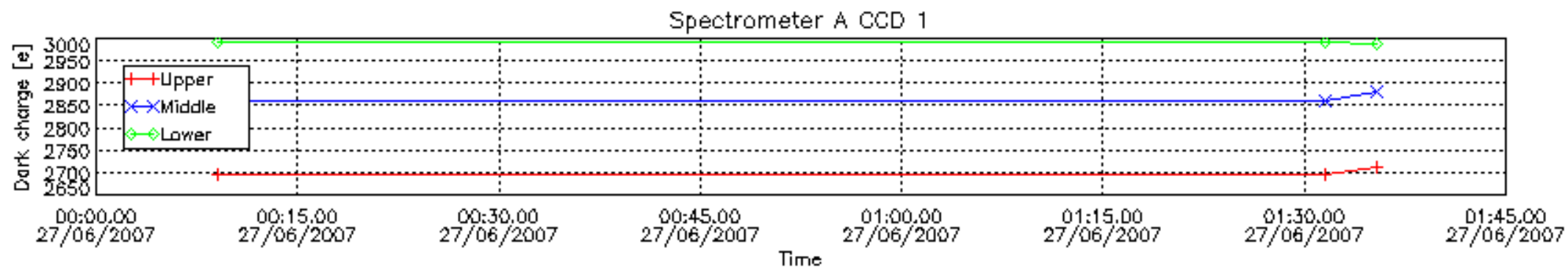
8. Auxiliary Data Files used for the production reported in section 2.4

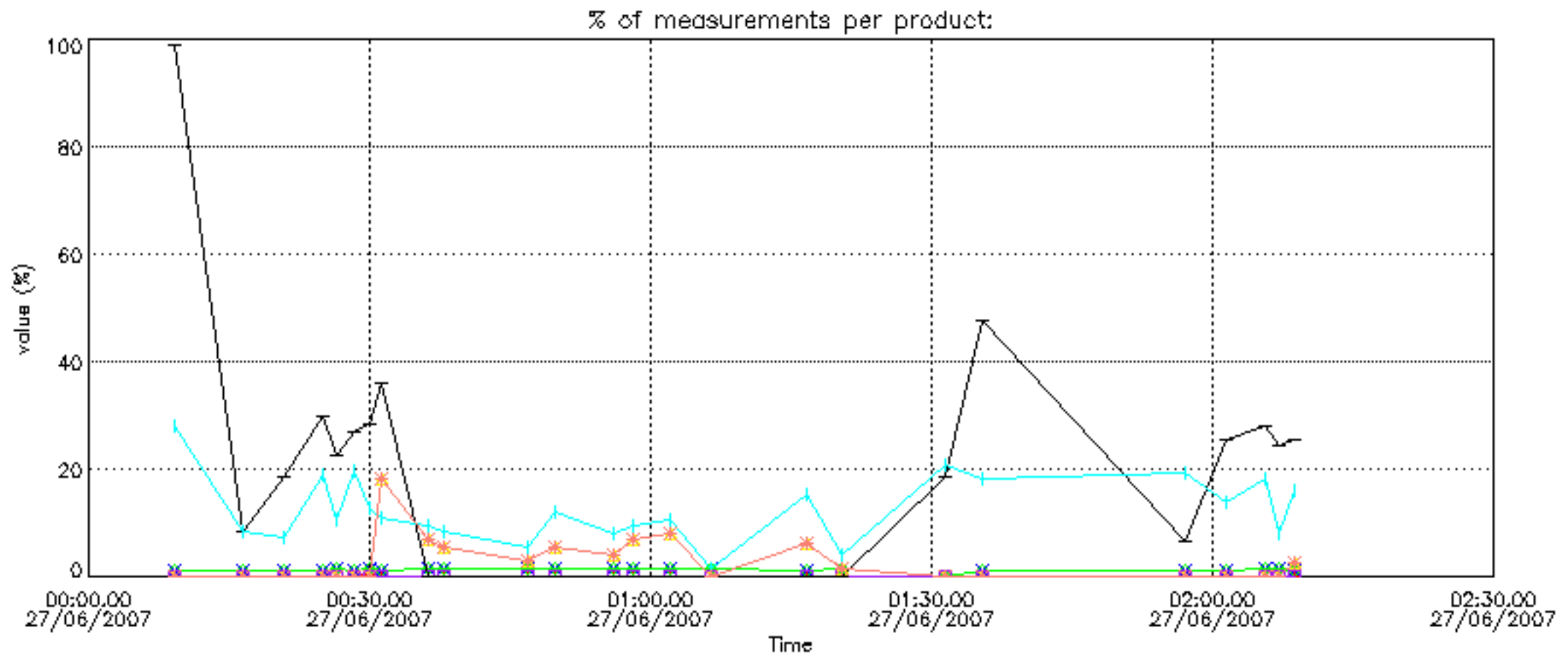
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-JUN-2007 00:09:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	27-JUN-2007 00:09:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-JUN-2007 00:09:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JUN-2007 00:09:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-JUN-2007 00:09:03
ECMWF_FILE	AUX_ECF_AXNECM20070626_062111_20070626_210000_20070627_090000	1	27-JUN-2007 00:09:03
OPTIONAL_ECMWF_FILE	MISSING	1	27-JUN-2007 00:09:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070626_235524_000054192059_00216_27825_3659.N1	1	27-JUN-2007 00:09:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070627_013102_000041442059_00217_27826_3660.N1	20	27-JUN-2007 01:35:23

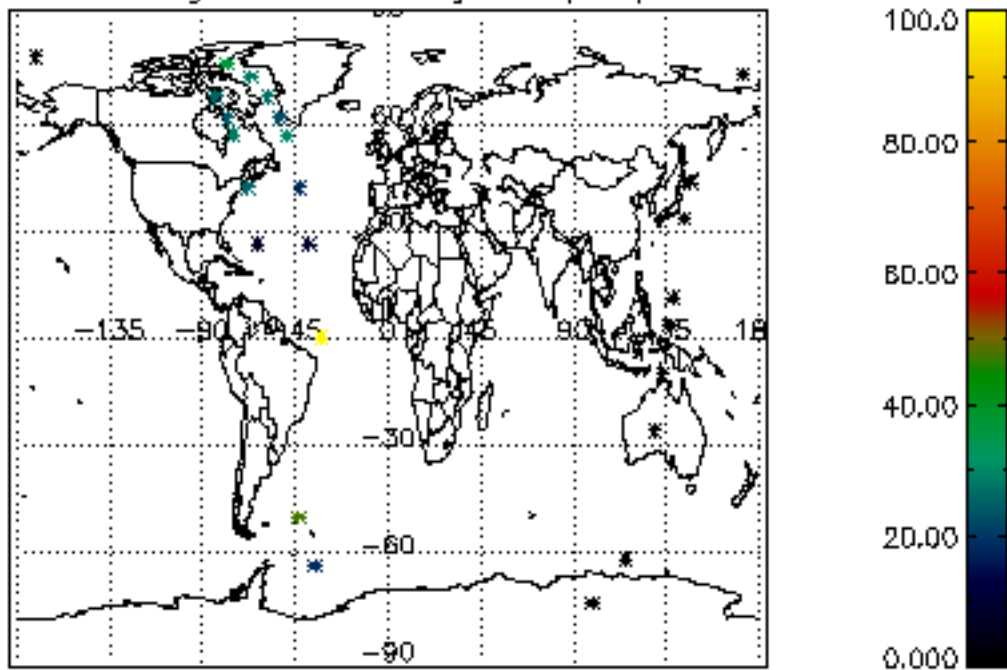




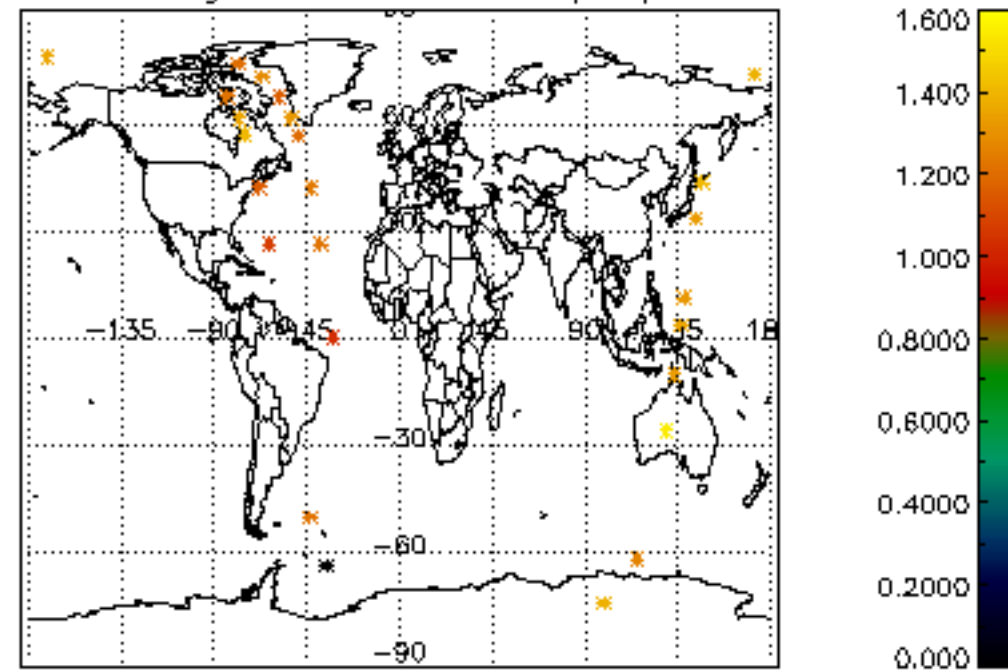




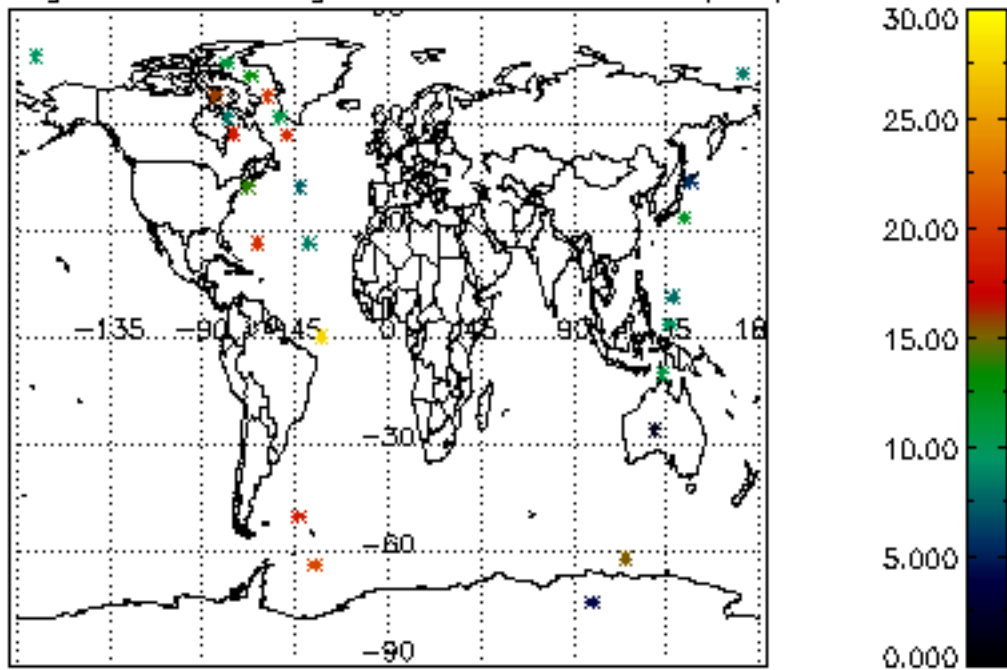
Percentage of cosmic ray hits per profile



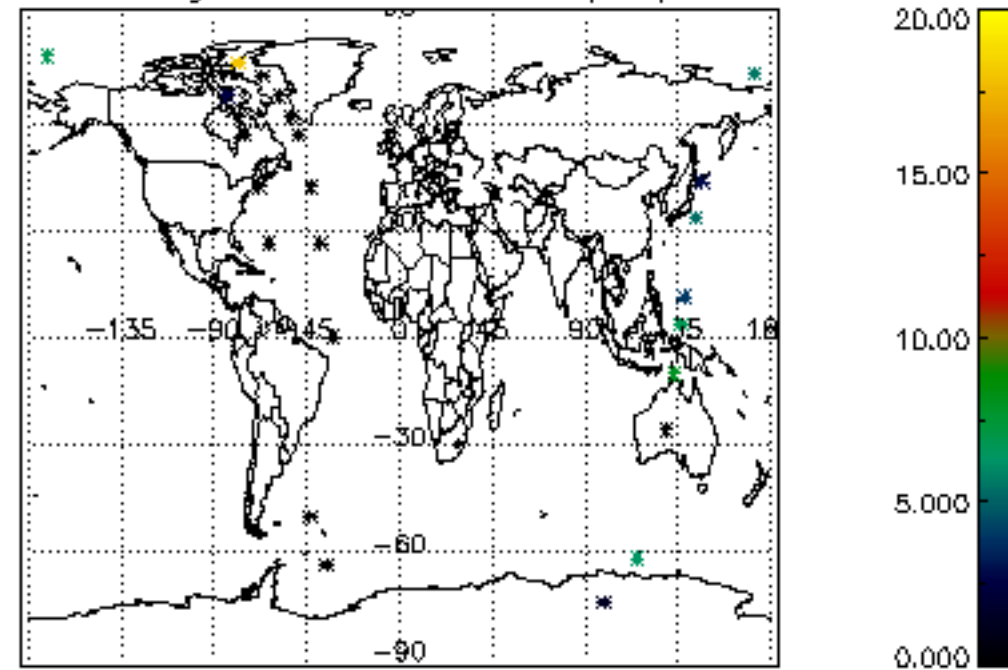
Percentage of datation errors per profile



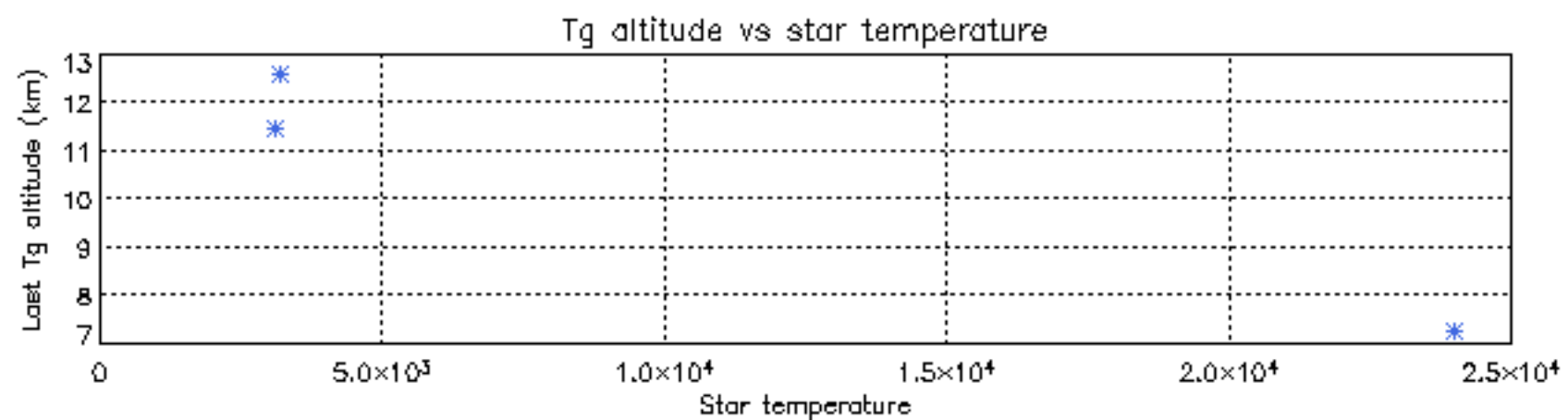
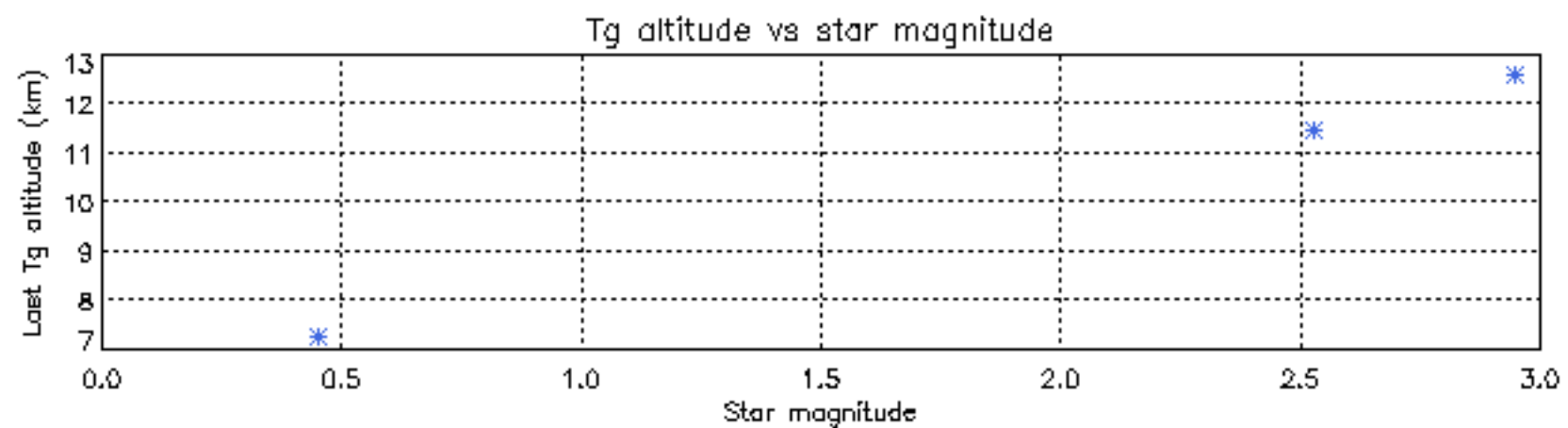
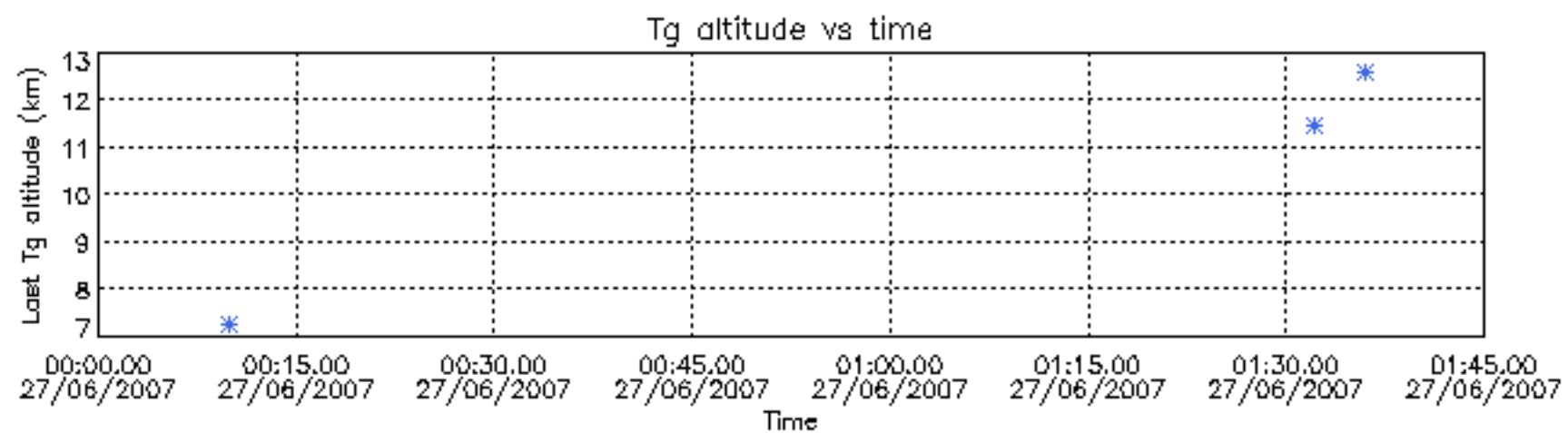
Percentage of star falling outside central band per profile



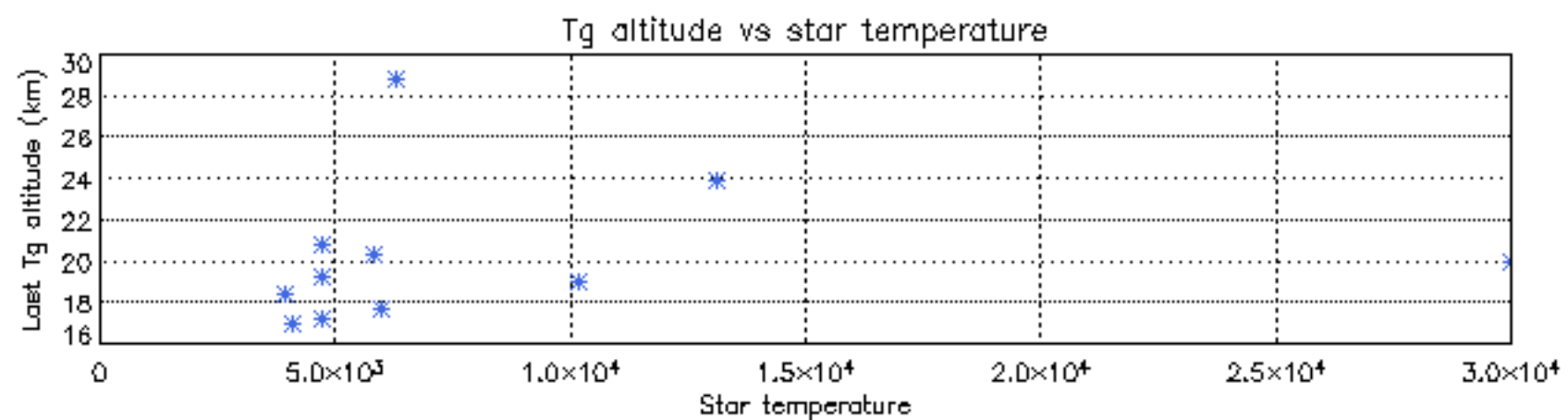
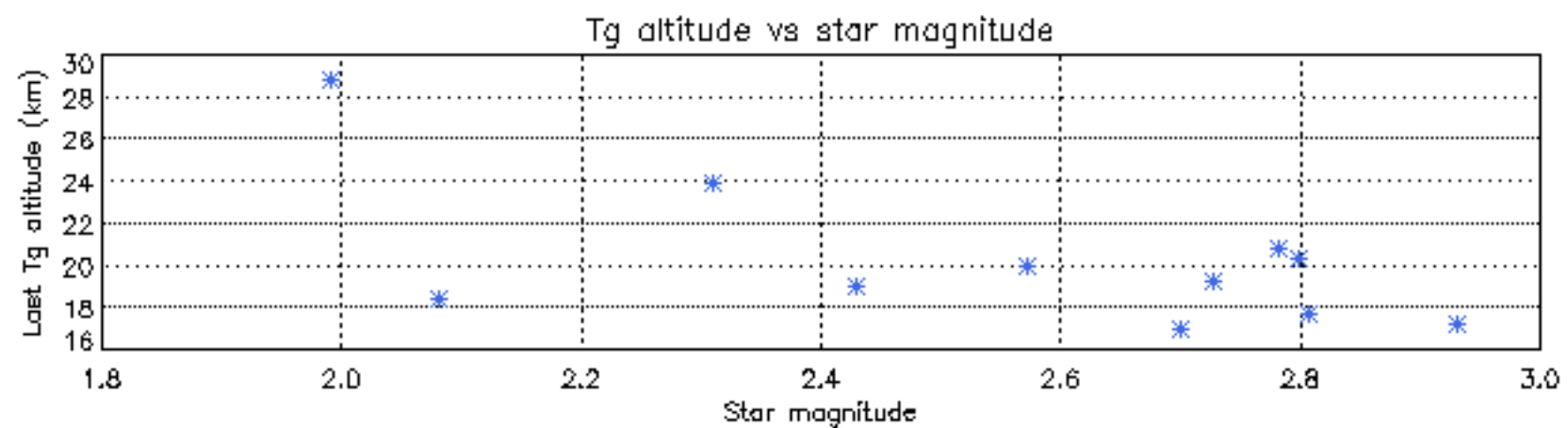
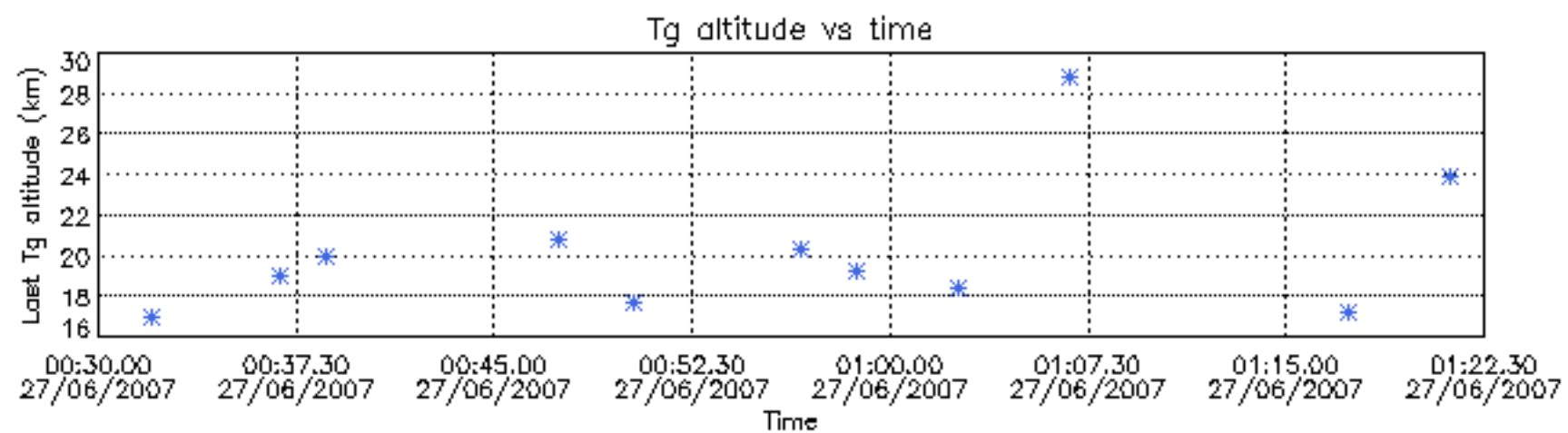
Percentage of saturation errors per profile

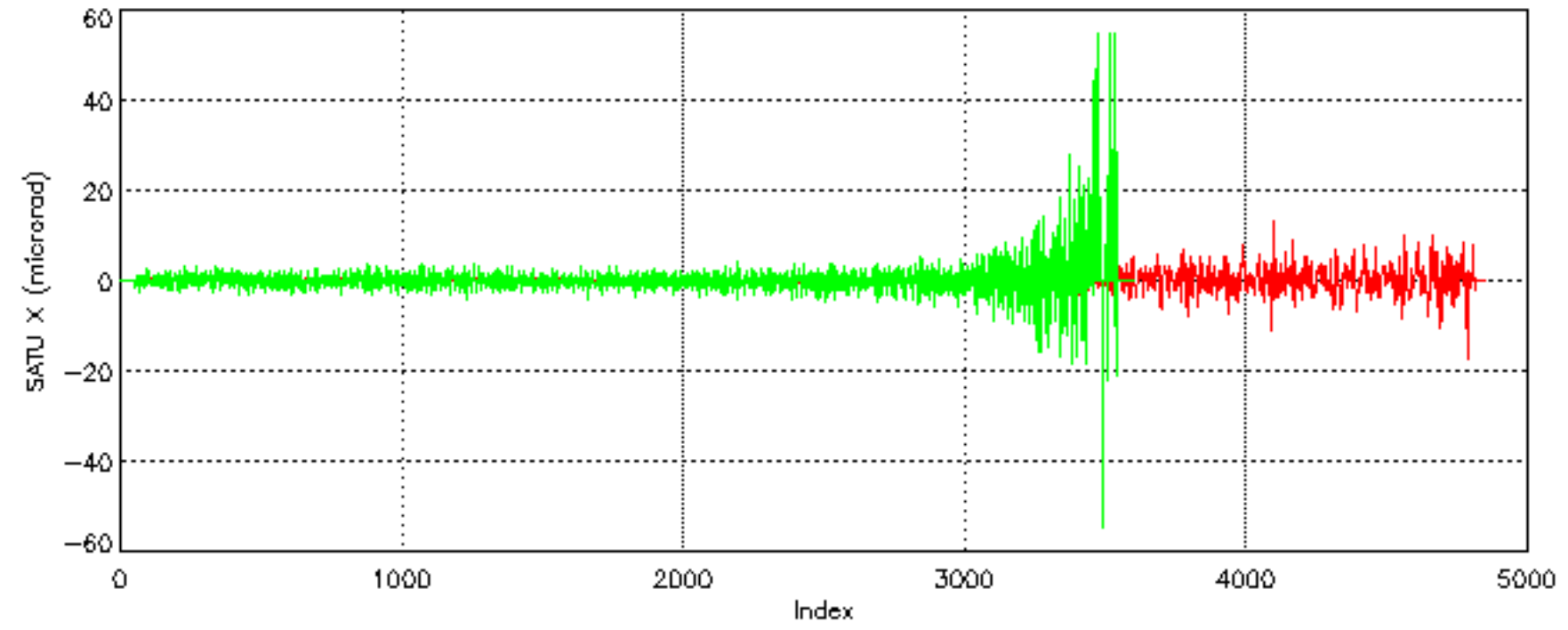


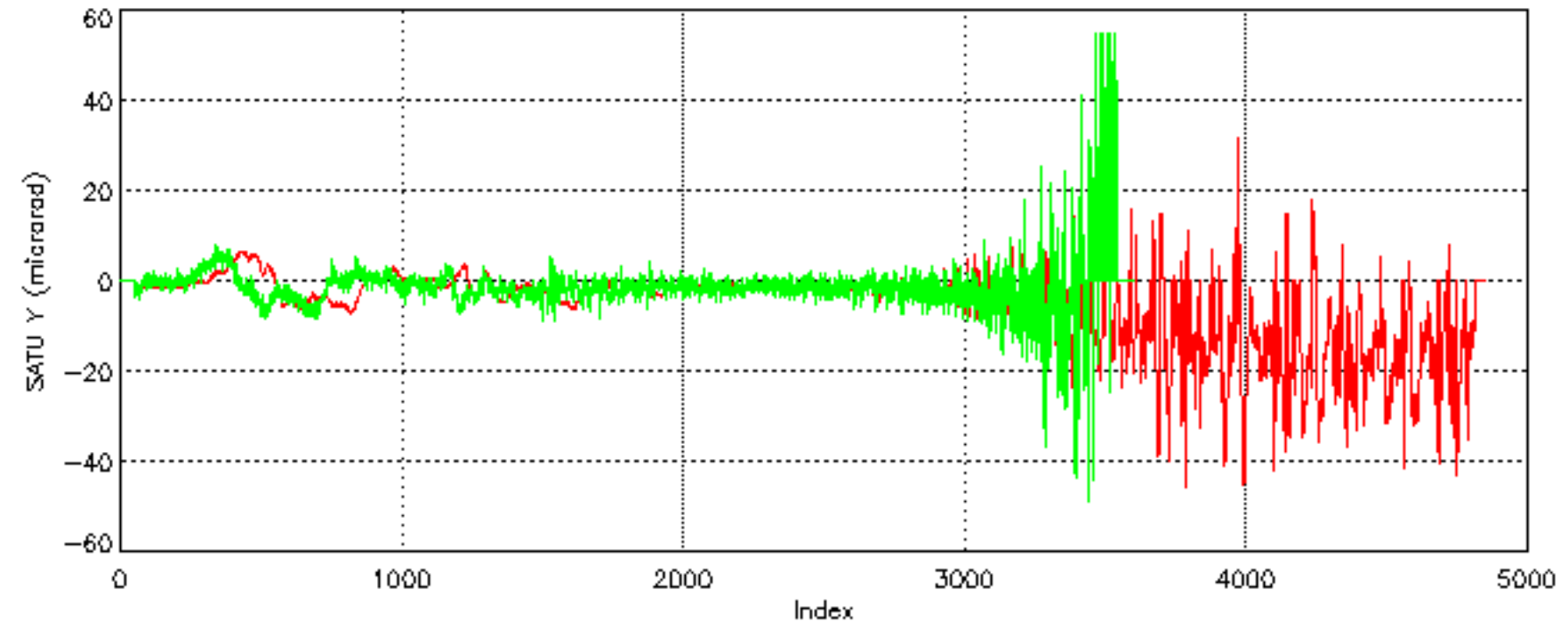
Tangent altitude at which the star is lost

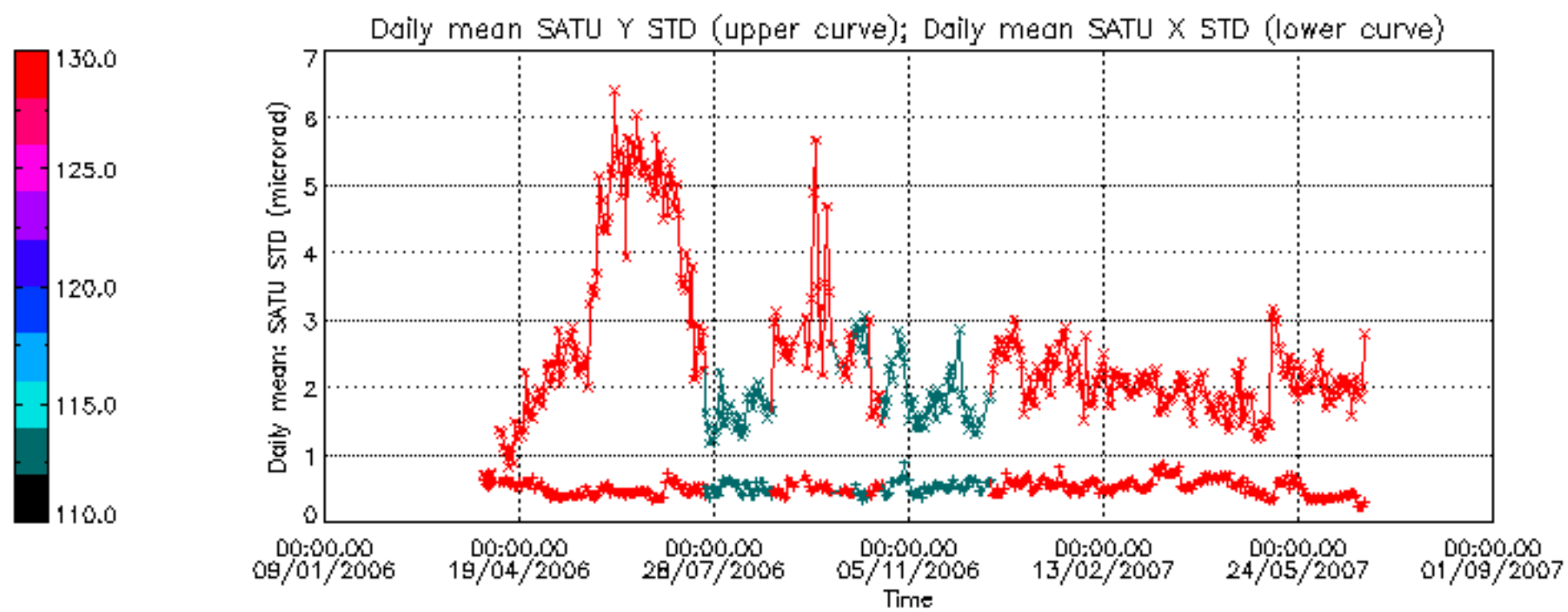


Tangent altitude at which the star is lost









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1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453
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 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
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 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
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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
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 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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 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
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 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457
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 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
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 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 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
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 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
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 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
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 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
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 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
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13; 1545.4; 02-JUN-2007 00:20:20; Bright; 37.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 74; 0;27468
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17; 2368.3; 02-JUN-2007 00:34:03; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;27468
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14; 6224.4; 01-JUN-2007 08:52:20; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27458
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17; 6970.7; 01-JUN-2007 09:04:46; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;27458
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3; 2014.9; 01-JUN-2007 09:22:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27459
4; 2369.4; 01-JUN-2007 09:28:40; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;27459
5; 3005.3; 01-JUN-2007 09:39:16; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27459
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15; 6523.9; 01-JUN-2007 10:37:55; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27459
16; 6895.9; 01-JUN-2007 10:44:07; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;27459
17; 6971.0; 01-JUN-2007 10:45:22; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;27459
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13; 6113.7; 01-JUN-2007 12:11:41; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;27460
14; 6226.2; 01-JUN-2007 12:13:33; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27460
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13; 6114.6; 01-JUN-2007 13:52:17; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;27461
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16; 6896.7; 01-JUN-2007 14:05:19; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27461
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 7; 3166.1; 01-JUN-2007 14:43:45; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27462
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 16; 6526.1; 01-JUN-2007 15:39:45; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27462
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6; 86.4; 02-JUN-2007 04:57:49; Dark ; 42.0; 63; Bet Gru ; 2.15; 2800;occ; 84; 0;27471
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14; 1375.8; 02-JUN-2007 06:59:54; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27472
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3; 2254.2; 03-JUN-2007 11:44:43; Bright; 98.5; 127; 27Bet Her ; 2.78; 4700;occ; 197; 0;27489
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17; 2310.3; 04-JUN-2007 01:10:27; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;27497
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17;	3918.1;	07-JUN-2007	21:50:11;	Bright;		46.5;	76;	27Gam Cas	;	2.30;	30000;occ;	93;	0;	27552


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11; 1276.9; 07-JUN-2007 22:46:45; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;27553
12; 1429.5; 07-JUN-2007 22:49:18; Bright; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;27553
13; 1513.6; 07-JUN-2007 22:50:42; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27553
14; 1600.3; 07-JUN-2007 22:52:09; Bright; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;27553
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16; 1835.4; 07-JUN-2007 22:56:04; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27553
17; 2015.7; 07-JUN-2007 22:59:04; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27553
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23; 3918.9; 07-JUN-2007 23:30:47; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;27553
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6; 551.1; 08-JUN-2007 00:15:15; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;27554
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12; 1429.5; 08-JUN-2007 00:29:54; Bright; 48.5; 16; 21Alp Sco ; 1.02; 3000;occ; 97; 0;27554
13; 1513.8; 08-JUN-2007 00:31:18; Bright; 36.0; 80; 7Del Sco ; 2.32; 30000;occ; 72; 0;27554
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16; 1835.3; 08-JUN-2007 00:36:40; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27554
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21; 3165.2; 08-JUN-2007 00:58:50; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27554
22; 3446.7; 08-JUN-2007 01:03:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27554
23; 3917.8; 08-JUN-2007 01:11:22; Bright; 57.0; 76; 27Gam Cas ; 2.30; 30000;occ; 114; 0;27554
24; 4263.9; 08-JUN-2007 01:17:08; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;27554
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 7; 3165.4; 07-JUN-2007 08:12:50; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27544
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 18; 6986.9; 22-JUN-2007 16:27:40; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;27763
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13; 1856.3; 23-JUN-2007 02:46:21; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;27770
14; 2043.4; 23-JUN-2007 02:49:29; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27770

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13;	2123.3;	29-JUN-2007	23:09:30;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;	occ;	73;	0;	27868
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22;	4294.0;	29-JUN-2007	23:45:40;	Bright;		30.0;	79;	26Bet Per	;	2.31;	13100;	occ;	60;	0;	27868
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7;	2280.6;	29-JUN-2007	16:29:43;	Bright;		36.0;	127;	27Bet Her	;	2.78;	4700;	occ;	72;	0;	27864
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