

GOMOS Daily Report 19-OCT-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	21OCT2007 05:42:35
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	29
Nb of prods with errors	1

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

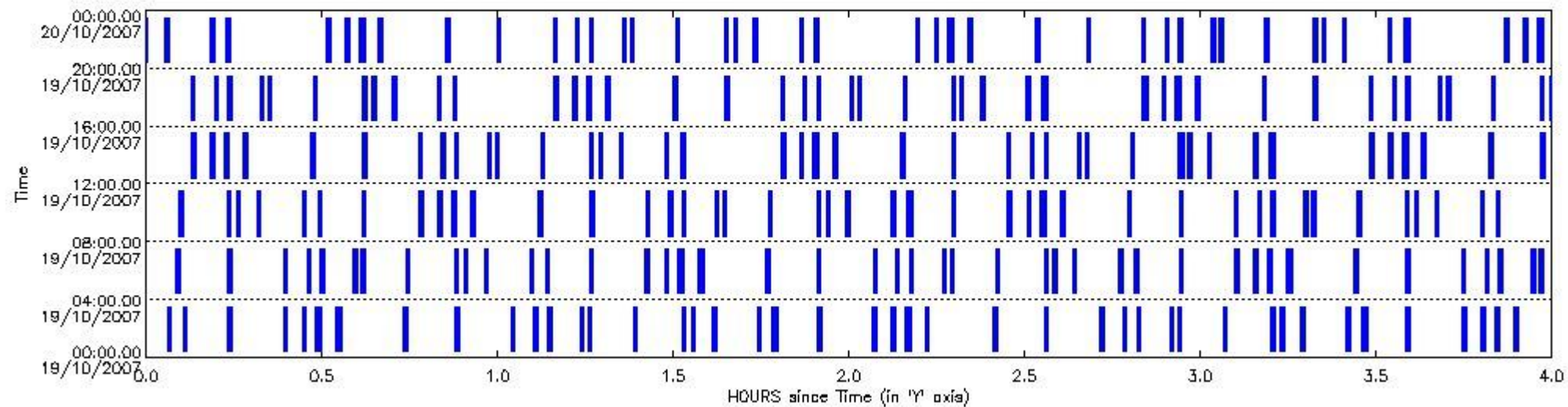
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

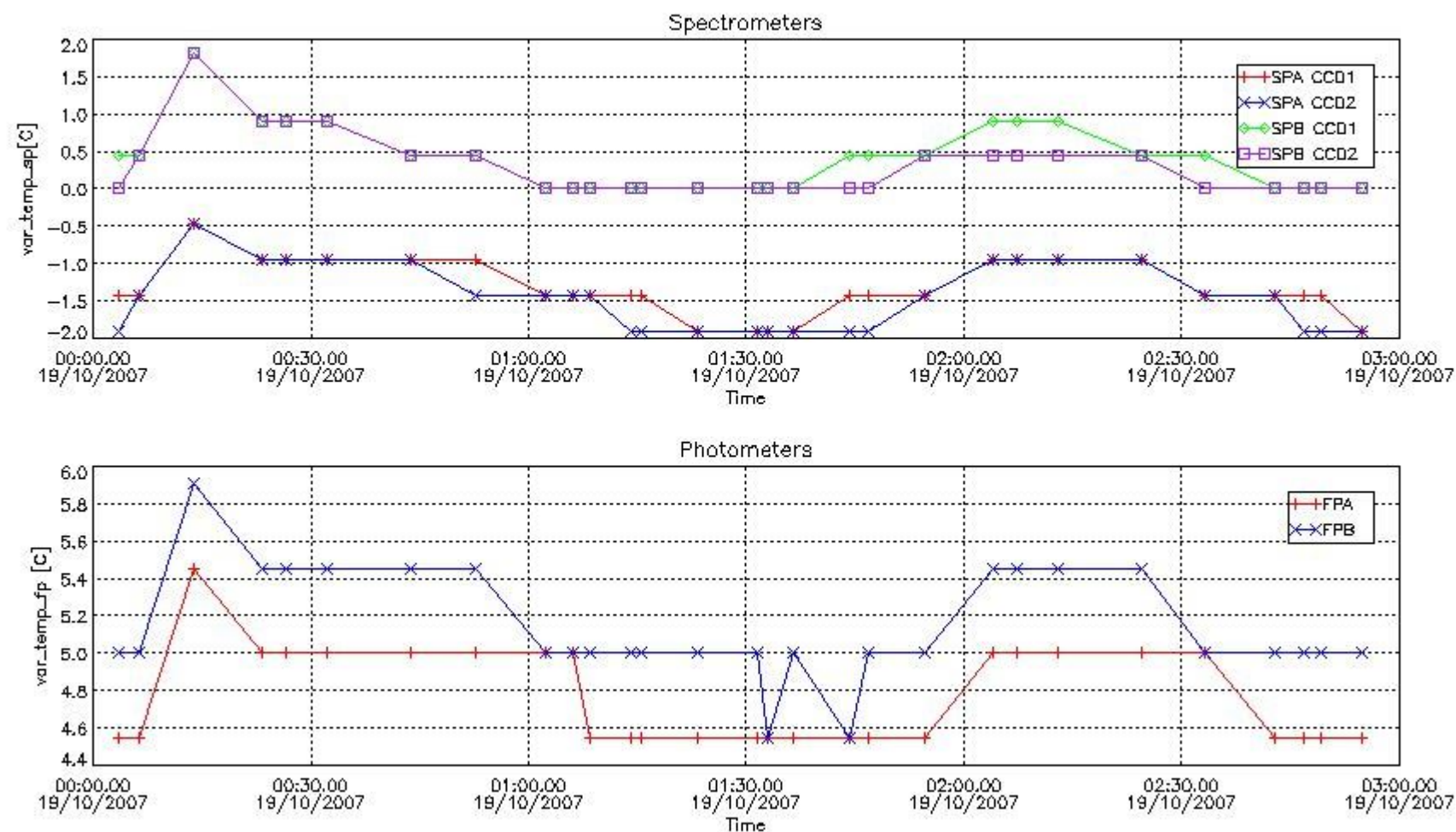
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20071019_000338_000000402062_00345_29457_0302.N1	19-OCT-2007 00:03:38	Bright	40.000	51	41Gam1Leo	2.0100	4500.0	80	29457	No
2	GOM_TRA_1PNPDE20071019_000616_000000432062_00345_29457_0303.N1	19-OCT-2007 00:06:16	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	29457	No
3	GOM_TRA_1PNPDE20071019_001354_000000492062_00345_29457_0413.N1	19-OCT-2007 00:13:54	Dark	48.500	48	30Alp Hya	1.9770	4100.0	97	29457	Yes
4	GOM_TRA_1PNPDE20071019_002322_000000432062_00345_29457_0414.N1	19-OCT-2007 00:23:22	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	29457	No
5	GOM_TRA_1PNPDE20071019_002639_000000422062_00346_29458_0415.N1	19-OCT-2007 00:26:39	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	29458	No
6	GOM_TRA_1PNPDE20071019_003218_000000592062_00346_29458_0416.N1	19-OCT-2007 00:32:18	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	29458	No
7	GOM_TRA_1PNPDE20071019_004352_000000442062_00346_29458_0417.N1	19-OCT-2007 00:43:52	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	29458	No
8	GOM_TRA_1PNPDE20071019_005241_000000452062_00346_29458_0418.N1	19-OCT-2007 00:52:41	Straylight	44.500	52	16Bet Cet	2.0370	4500.0	89	29458	No
9	GOM_TRA_1PNPDE20071019_010215_000000372062_00346_29458_0419.N1	19-OCT-2007 01:02:15	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	29458	No
10	GOM_TRA_1PNPDE20071019_010611_000000362062_00346_29458_0420.N1	19-OCT-2007 01:06:11	Bright	35.500	58	21Alp And	2.0730	11000.	71	29458	No
11	GOM_TRA_1PNPDE20071019_010831_000000422062_00346_29458_0421.N1	19-OCT-2007 01:08:31	Bright	41.500	53	43Bet And	2.0480	3300.0	83	29458	No
12	GOM_TRA_1PNPDE20071019_011407_000000362062_00346_29458_0422.N1	19-OCT-2007 01:14:07	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29458	No

13	GOM_TRA_1PNPDE20071019_011527_000000372062_00346_29458_0423.N1	19-OCT-2007 01:15:27	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29458	No
14	GOM_TRA_1PNPDE20071019_012313_000000362062_00346_29458_0424.N1	19-OCT-2007 01:23:13	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29458	No
15	GOM_TRA_1PNPDE20071019_013128_000000362062_00346_29458_0425.N1	19-OCT-2007 01:31:28	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29458	No
16	GOM_TRA_1PNPDE20071019_013302_000000362062_00346_29458_0426.N1	19-OCT-2007 01:33:02	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	29458	No
17	GOM_TRA_1PNPDE20071019_013628_000000532062_00346_29458_0427.N1	19-OCT-2007 01:36:28	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29458	No
18	GOM_TRA_1PNPDE20071019_014414_000000392062_00346_29458_0428.N1	19-OCT-2007 01:44:14	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	29458	No
19	GOM_TRA_1PNPDE20071019_014652_000000592062_00346_29458_0429.N1	19-OCT-2007 01:46:52	Bright	58.500	22	32Alp Leo	1.3600	15200.	117	29458	No
20	GOM_TRA_1PNPDE20071019_015431_000000482062_00346_29458_0557.N1	19-OCT-2007 01:54:31	Dark	48.000	48	30Alp Hya	1.9770	4100.0	96	29458	No
21	GOM_TRA_1PNPDE20071019_020359_000000462062_00346_29458_0558.N1	19-OCT-2007 02:03:59	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	29458	No
22	GOM_TRA_1PNPDE20071019_020715_000000442062_00347_29459_0559.N1	19-OCT-2007 02:07:15	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	29459	No
23	GOM_TRA_1PNPDE20071019_021254_000000482062_00347_29459_0560.N1	19-OCT-2007 02:12:54	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	29459	No
24	GOM_TRA_1PNPDE20071019_022428_000000462062_00347_29459_0561.N1	19-OCT-2007 02:24:28	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	29459	No
25	GOM_TRA_1PNPDE20071019_023317_000000452062_00347_29459_0562.N1	19-OCT-2007 02:33:17	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	29459	No
26	GOM_TRA_1PNPDE20071019_024251_000000362062_00347_29459_0563.N1	19-OCT-2007 02:42:51	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29459	No
27	GOM_TRA_1PNPDE20071019_024647_000000362062_00347_29459_0564.N1	19-OCT-2007 02:46:47	Bright	35.500	58	21Alp And	2.0730	11000.	71	29459	No
28	GOM_TRA_1PNPDE20071019_024906_000000422062_00347_29459_0565.N1	19-OCT-2007 02:49:06	Bright	41.500	53	43Bet And	2.0480	3300.0	83	29459	No
29	GOM_TRA_1PNPDE20071019_025443_000000352062_00347_29459_0566.N1	19-OCT-2007 02:54:43	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	29459	No

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



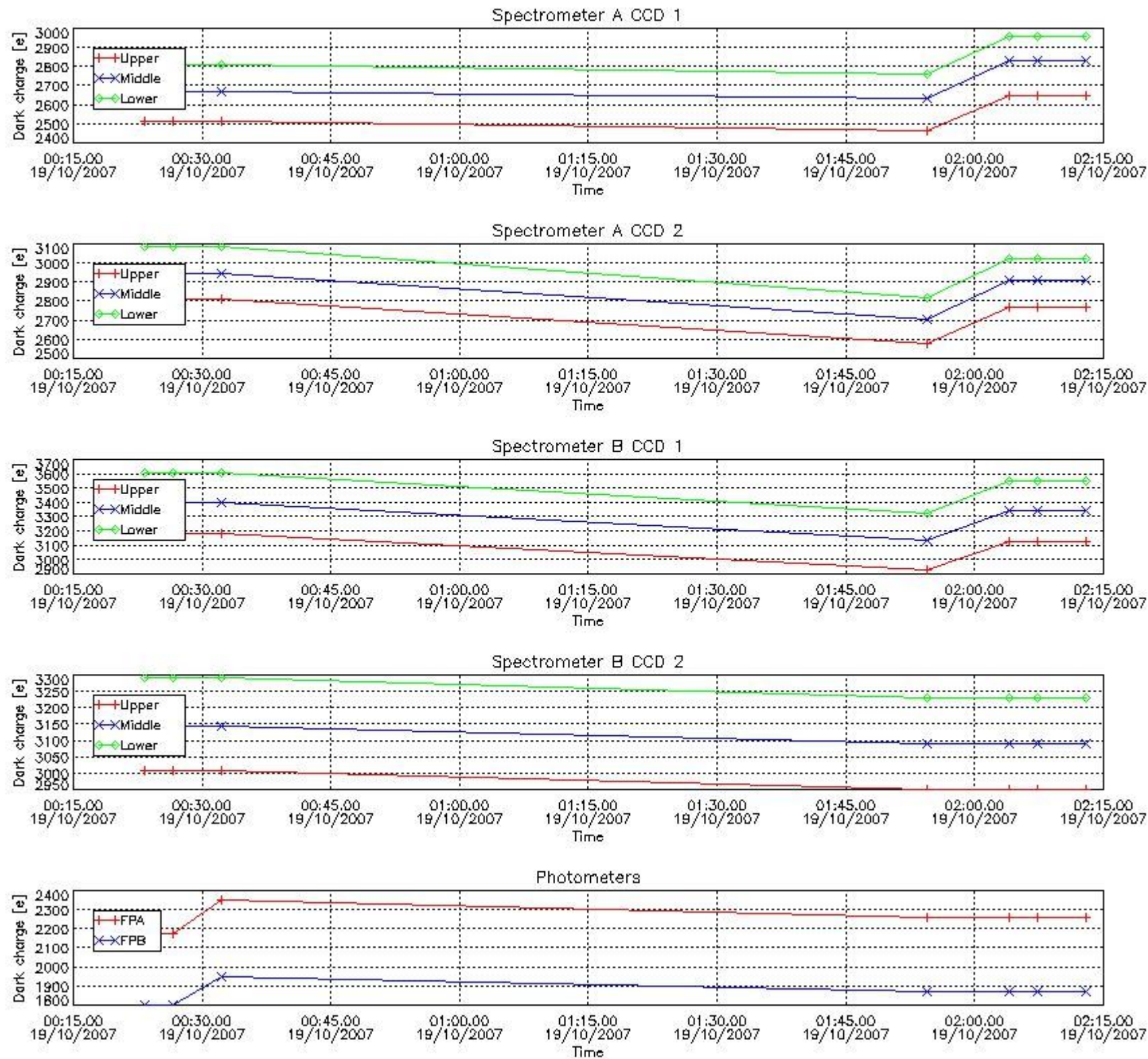
4. Overview of dark signal processing per product

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



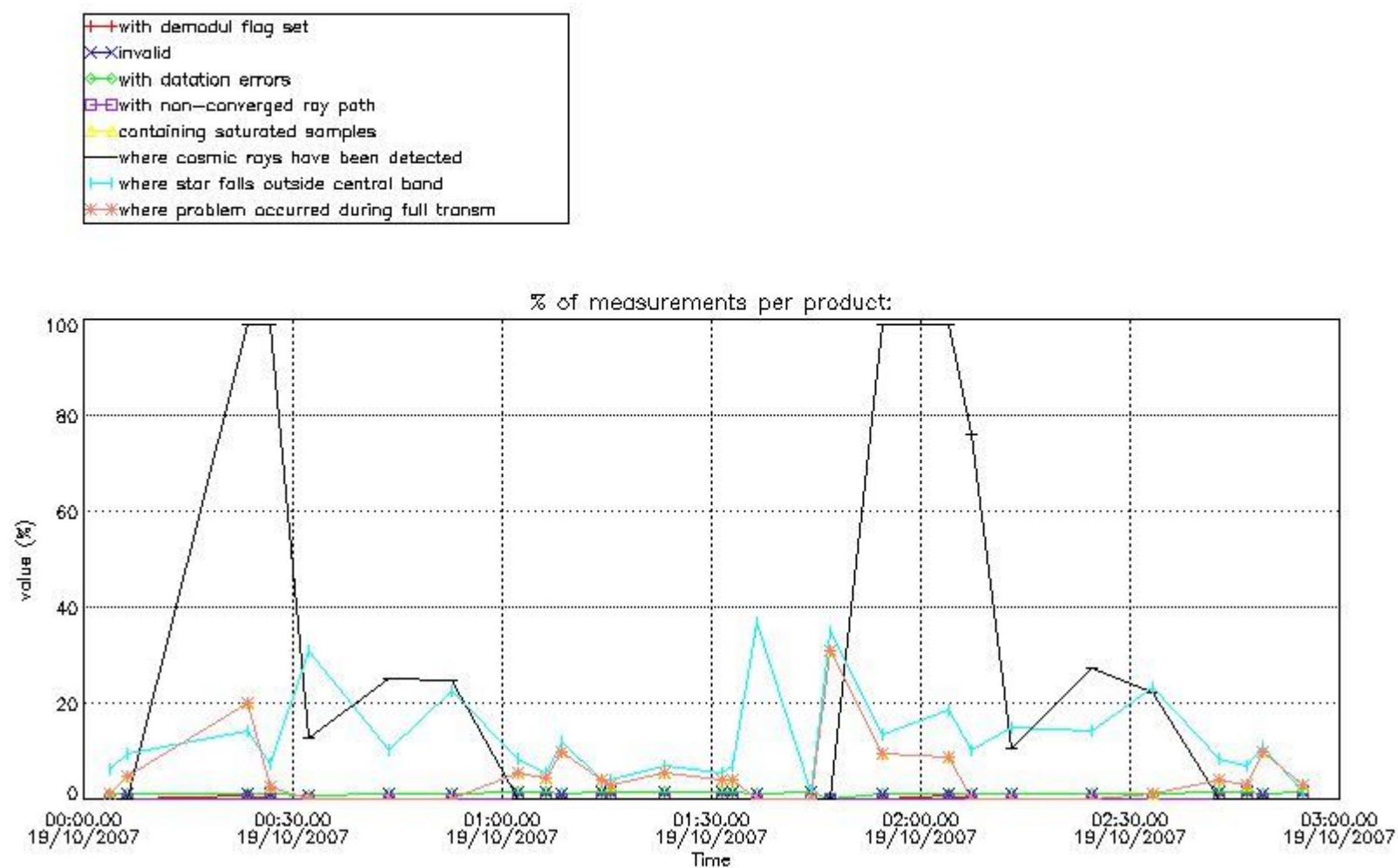
5. Demodulation flag and quality information monitoring

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.

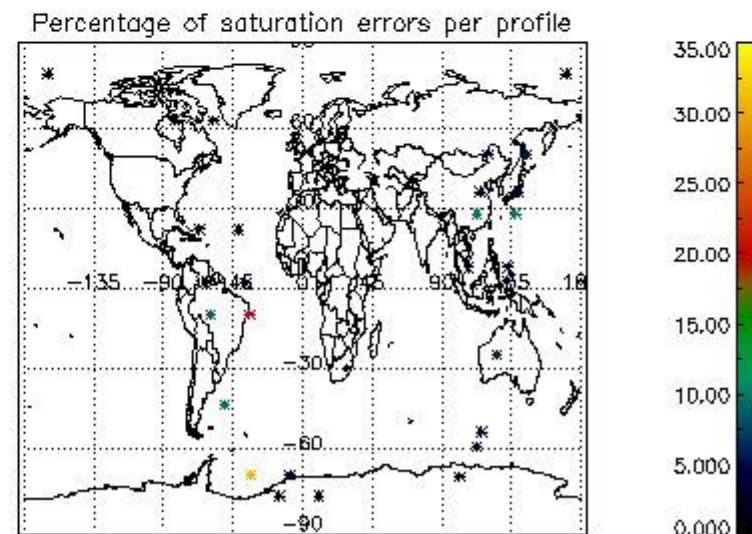
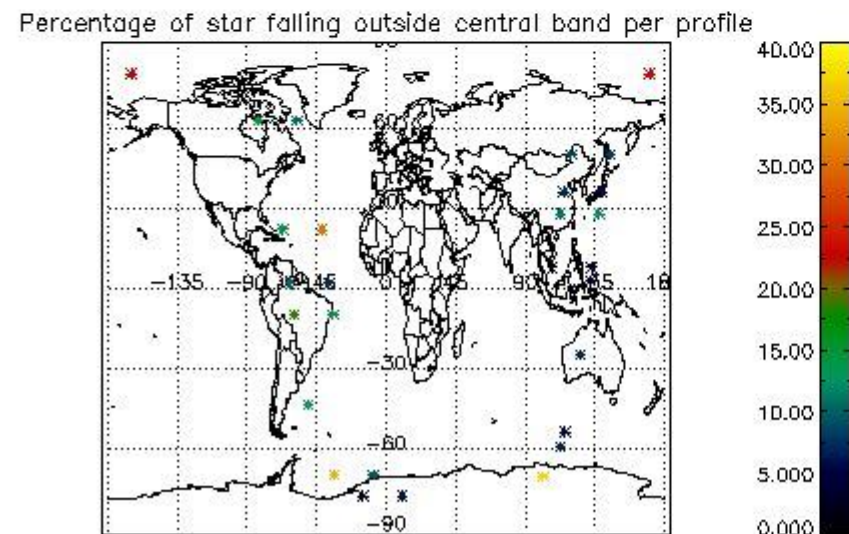
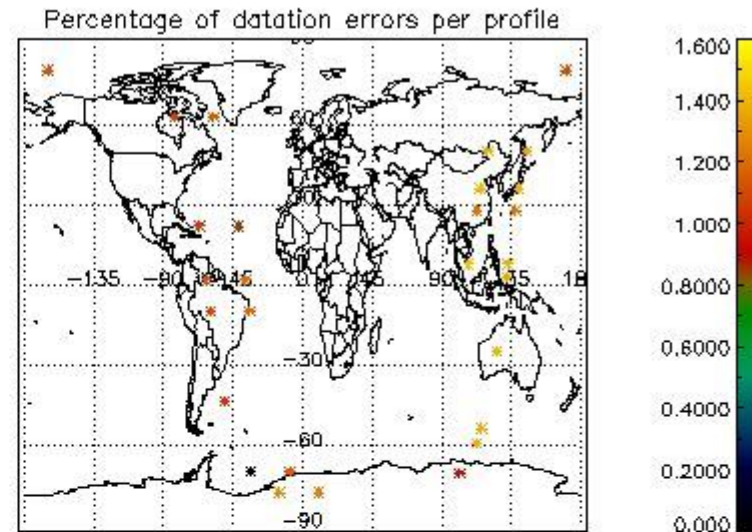
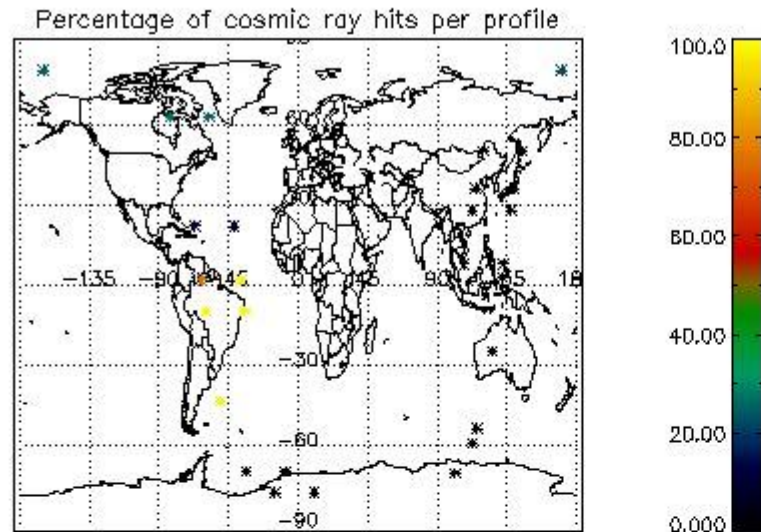
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.8571 %
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)



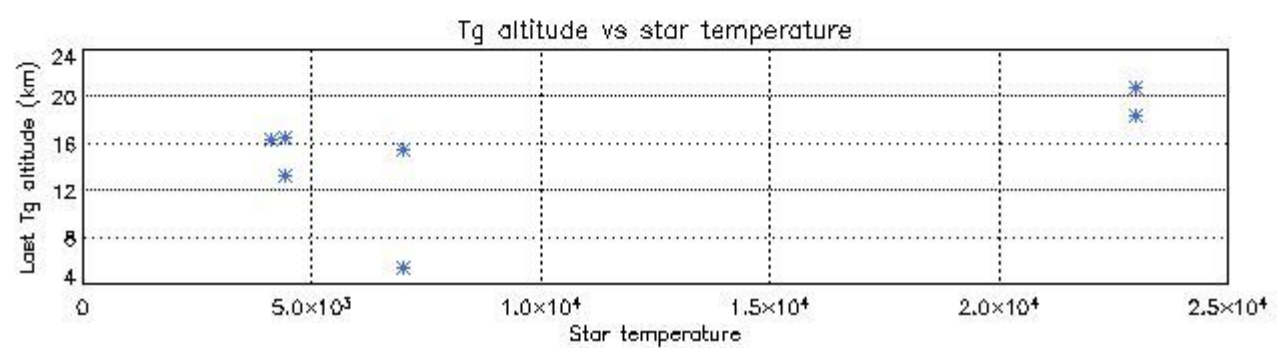
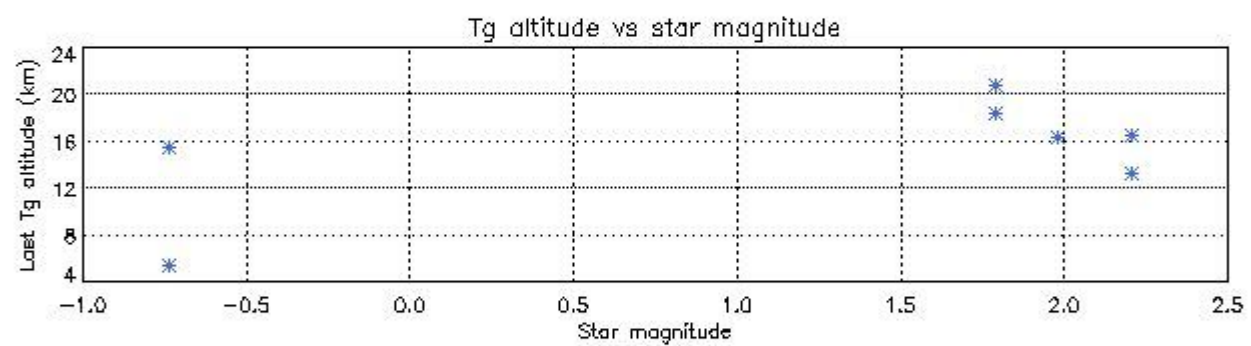
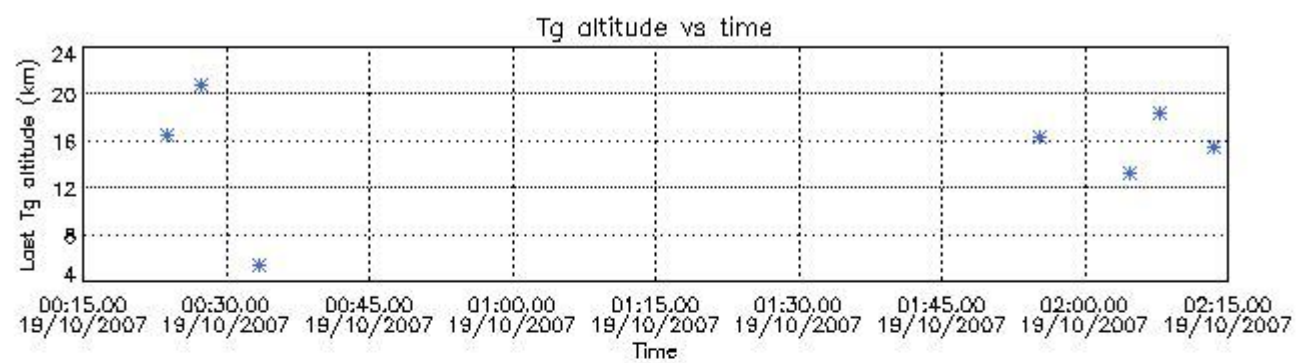
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.156	18.562	NaN
St. deviation:	4.9244	5.7400	NaN
Maximum:	20.808	24.891	NaN
Minimum:	5.3206	4.4867	NaN
Number of data:	7.0000	17.000	NaN

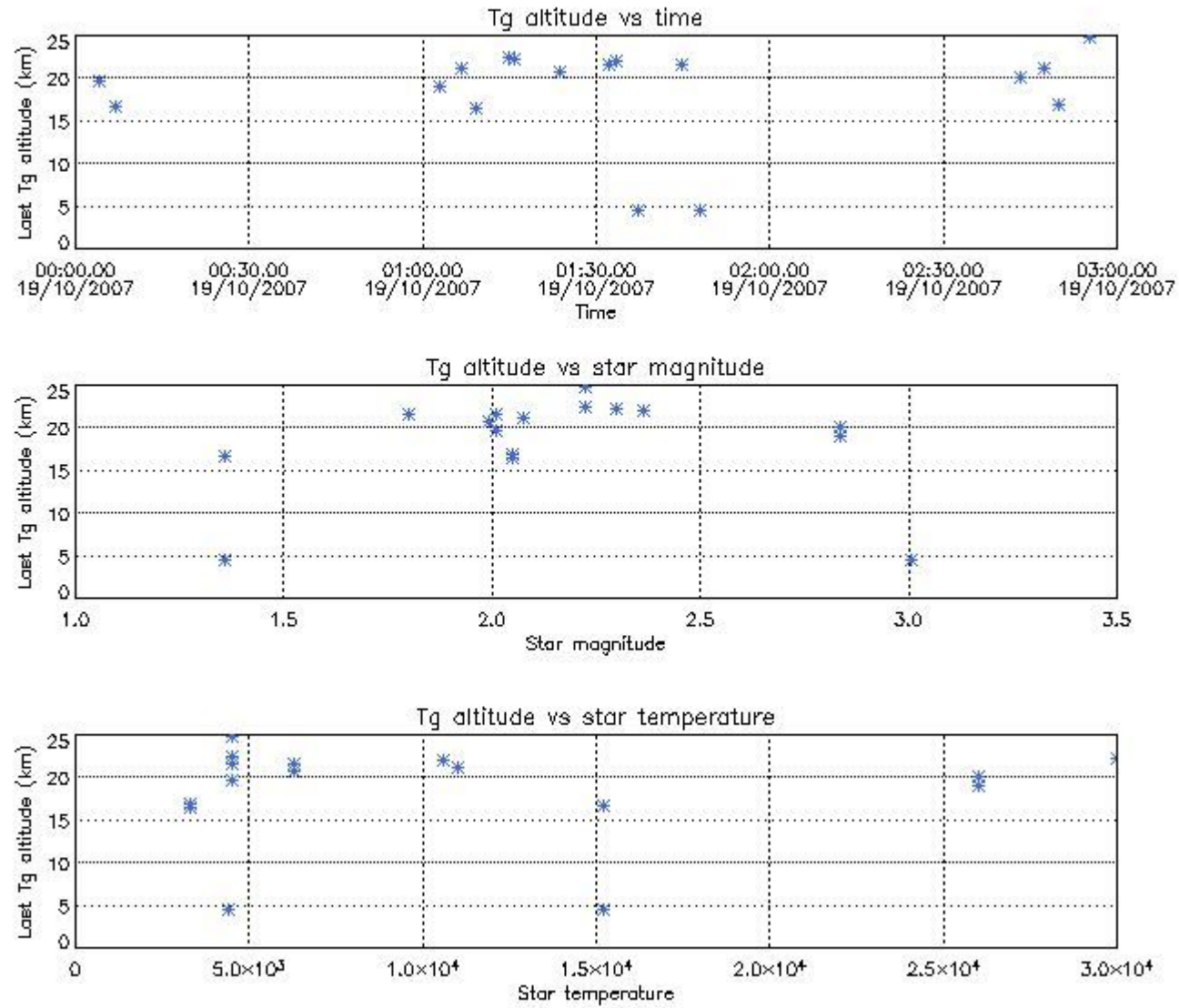
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

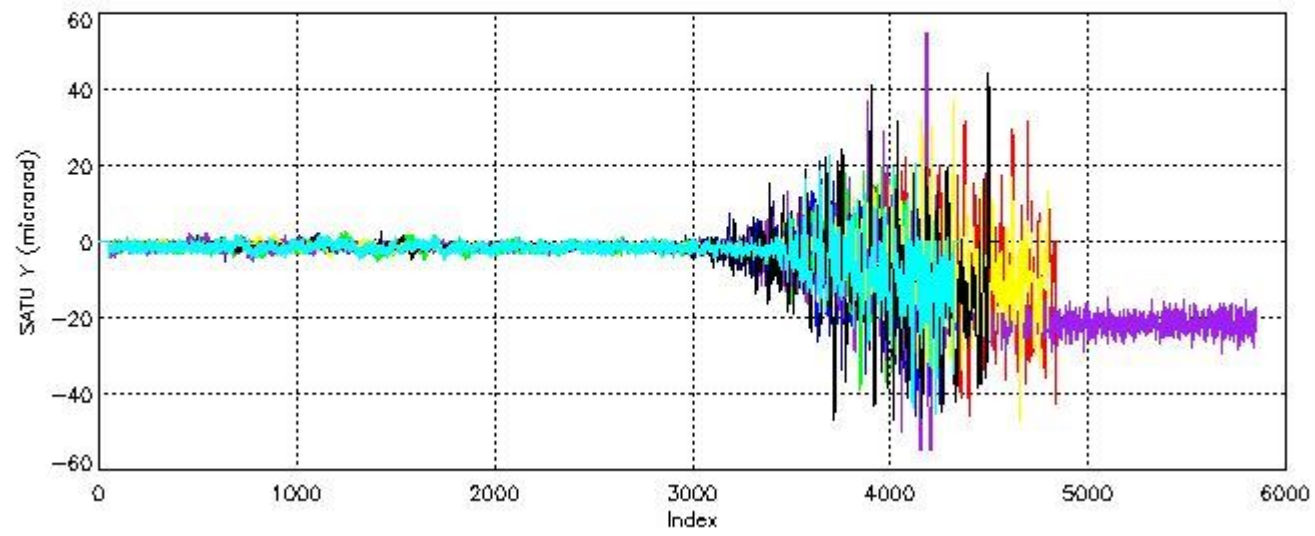
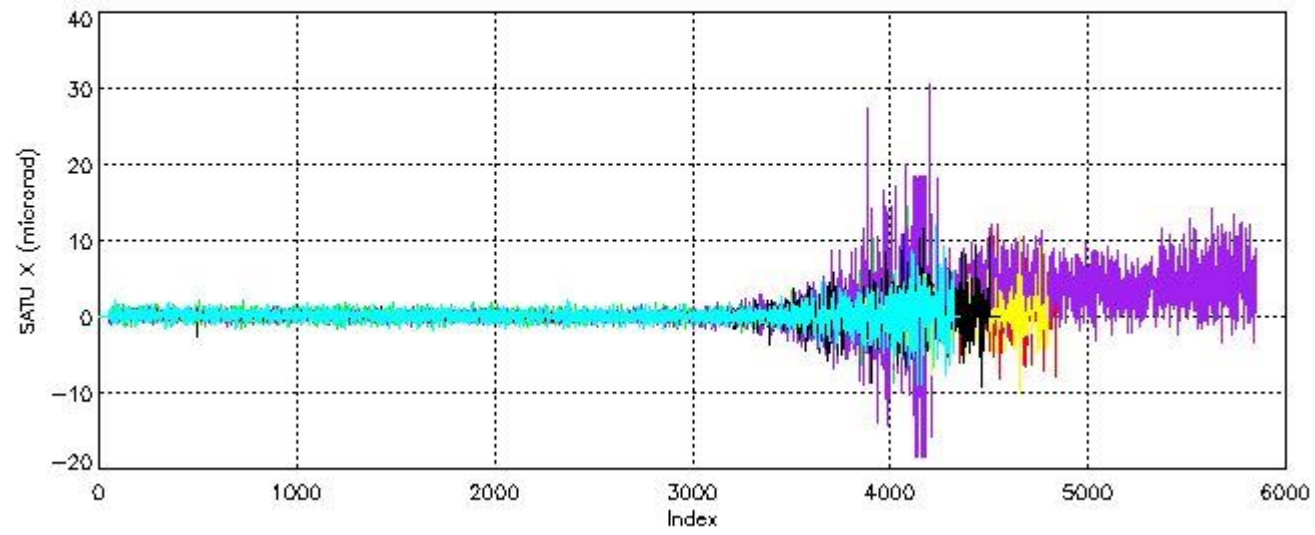


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21451	-1.2492	0.10102	-1.2783
St. deviation:	0.28625	0.77085	0.64908	1.2818
Maximum:	2.1000	2.0000	6.0000	6.0000
Minimum:	-2.6000	-5.1000	-5.0000	-9.0000

Number of data:	7200.0	7200.0	14600.	14600.
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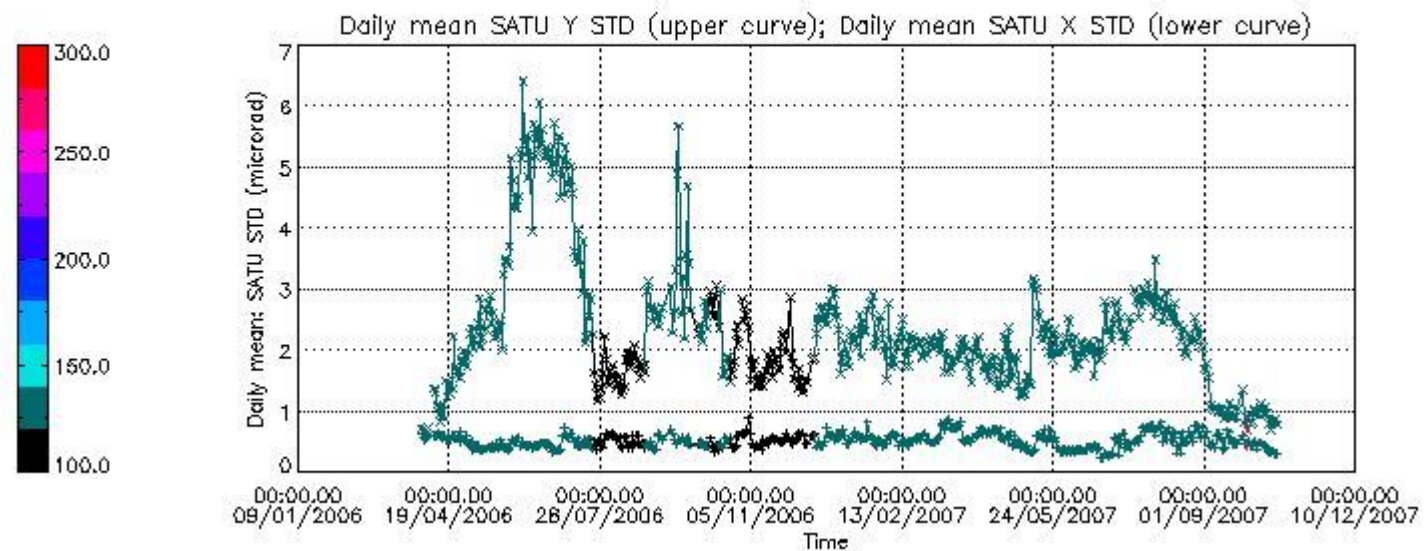
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

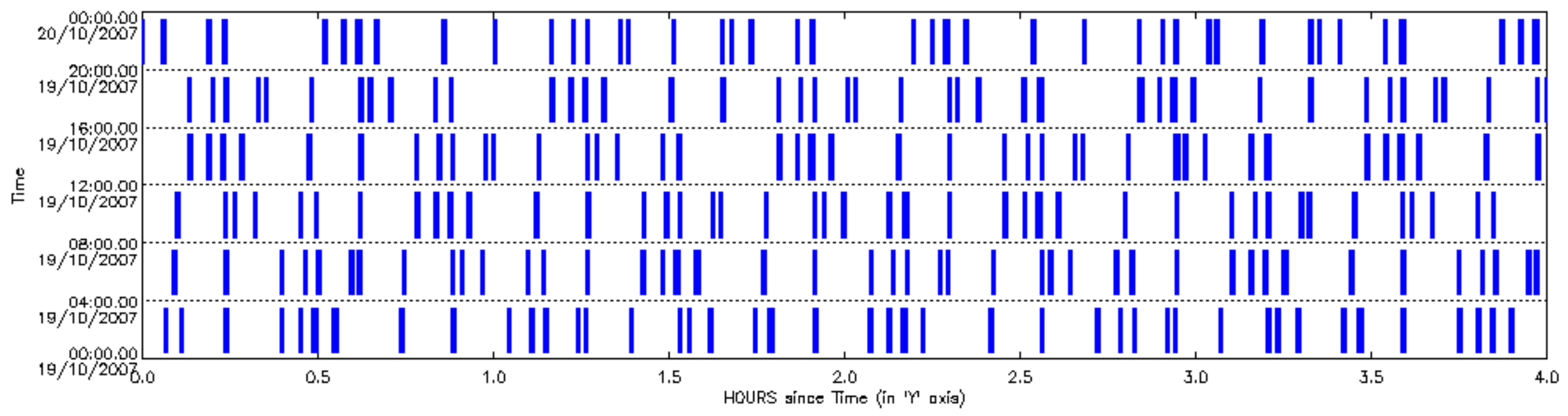
Lower curve: STD of SATU X axis

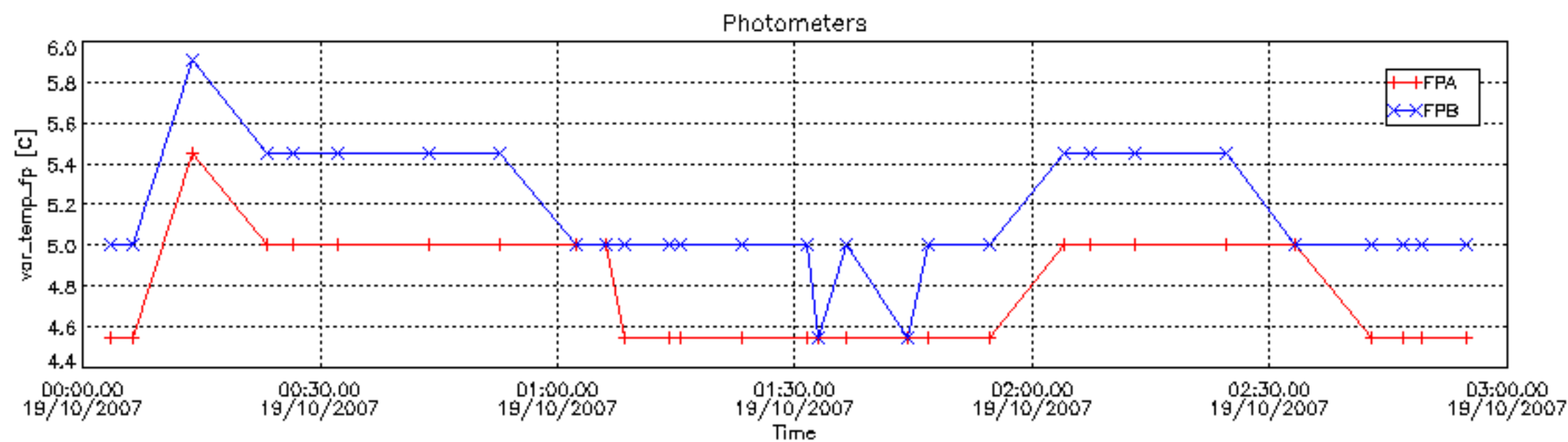
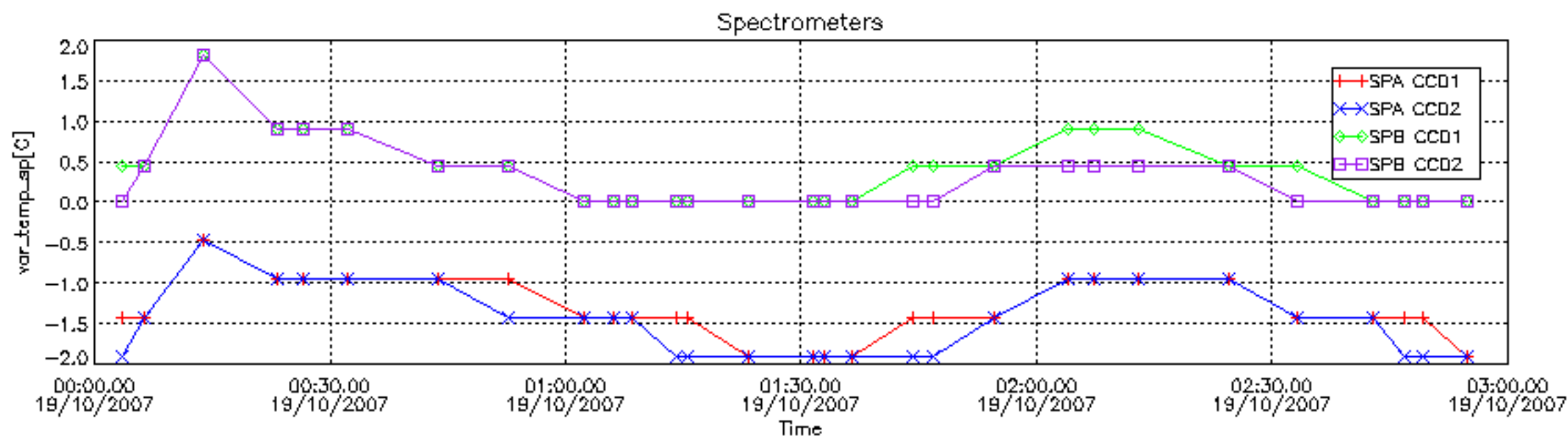


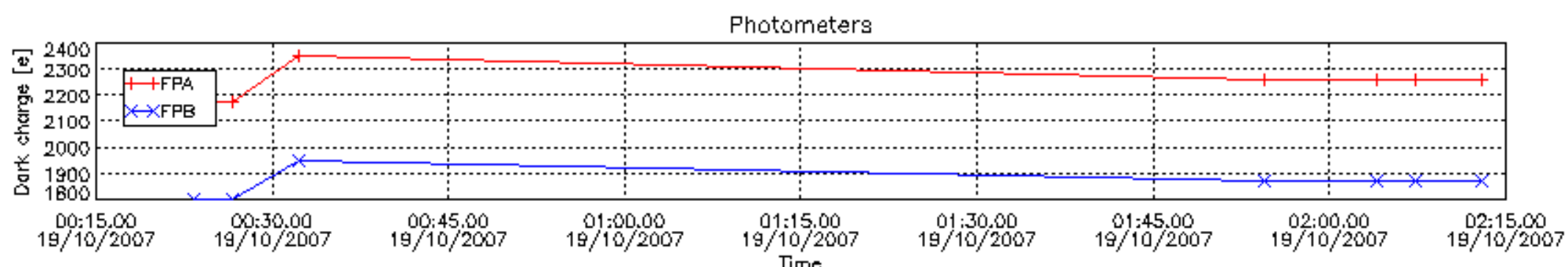
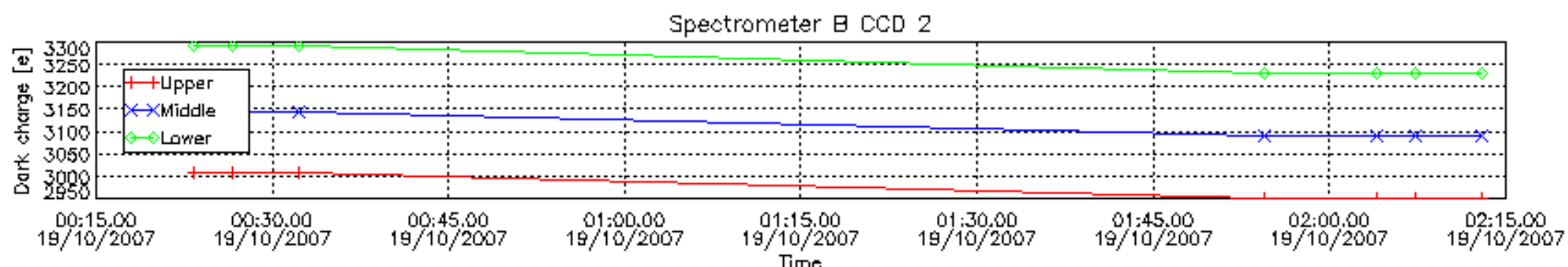
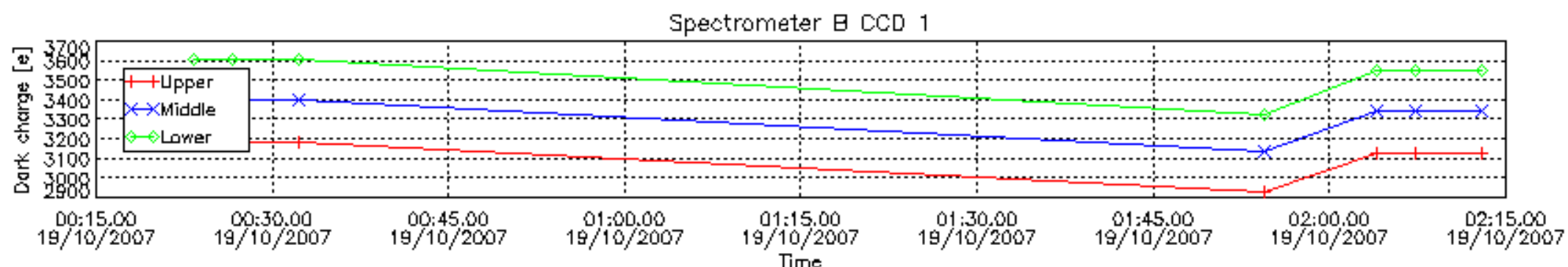
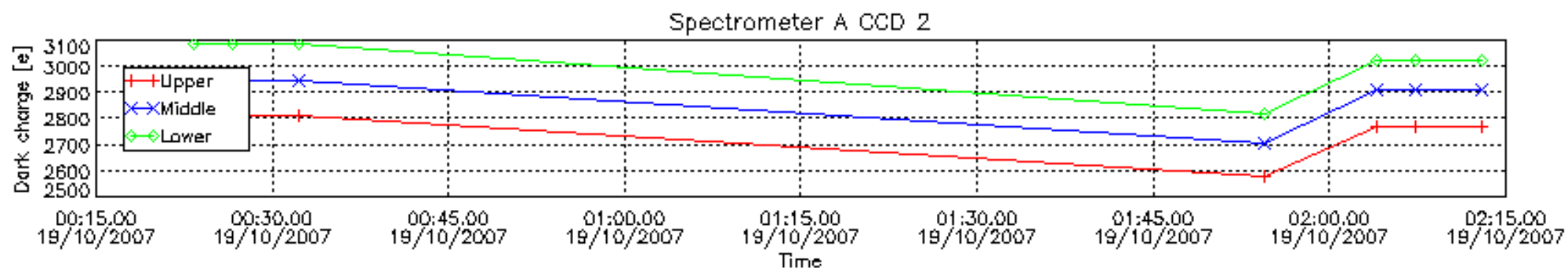
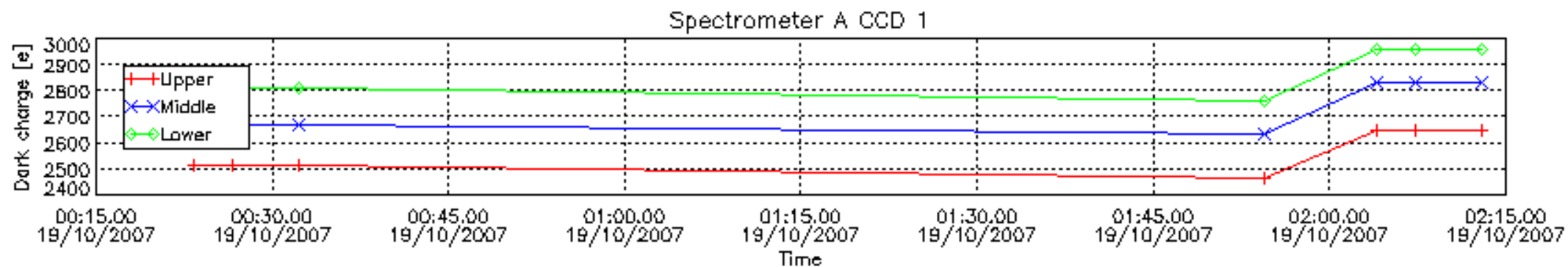
8. Auxiliary Data Files used for the production reported in section 2.4

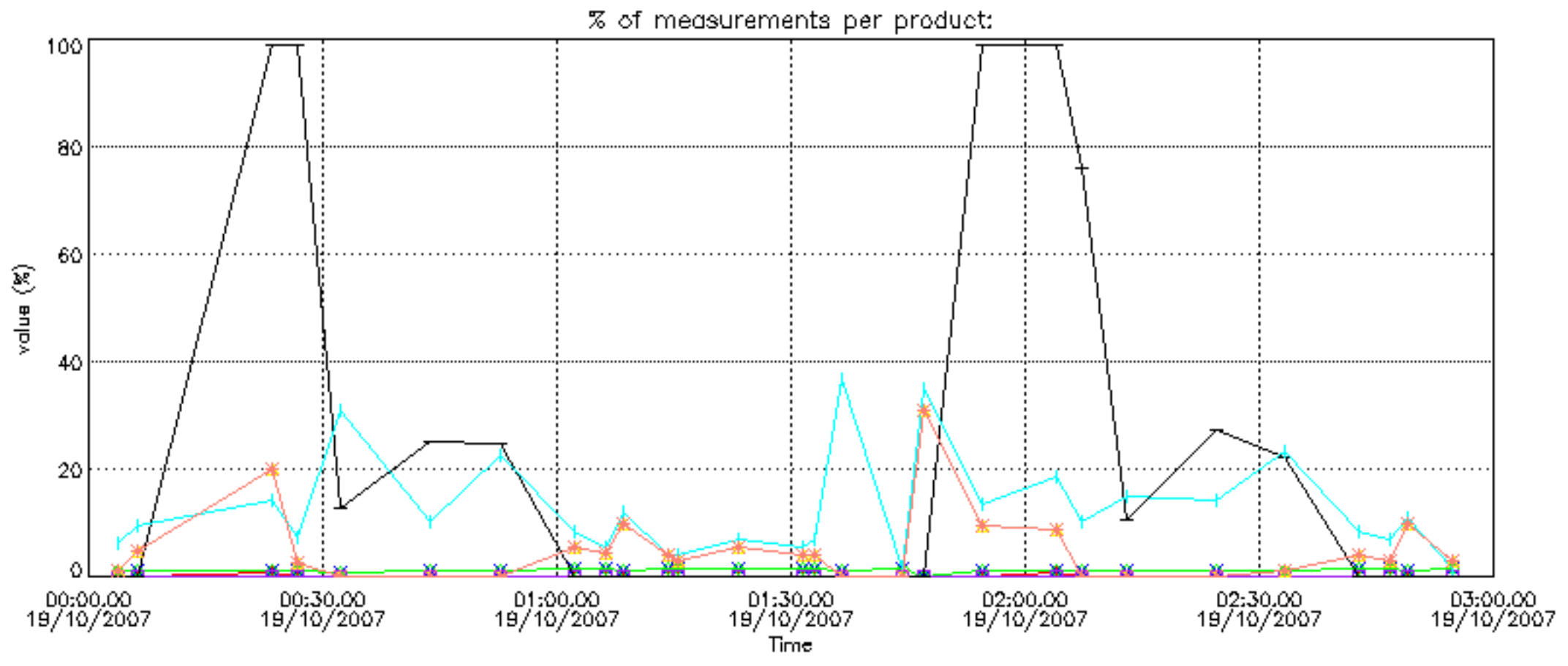
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-OCT-2007 00:03:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000	1	19-OCT-2007 00:03:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-OCT-2007 00:03:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-OCT-2007 00:03:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-OCT-2007 00:03:38
ECMWF_FILE	AUX_ECF_AXNECM20071018_061111_20071018_210000_20071019_090000	1	19-OCT-2007 00:03:38
OPTIONAL_ECMWF_FILE	MISSING	1	19-OCT-2007 00:03:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071018_204611_000060572062_00343_29455_4383.N1	1	19-OCT-2007 00:03:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071018_223227_000057382062_00344_29456_4384.N1	3	19-OCT-2007 00:13:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071019_001324_000054192062_00345_29457_4385.N1	20	19-OCT-2007 01:54:31

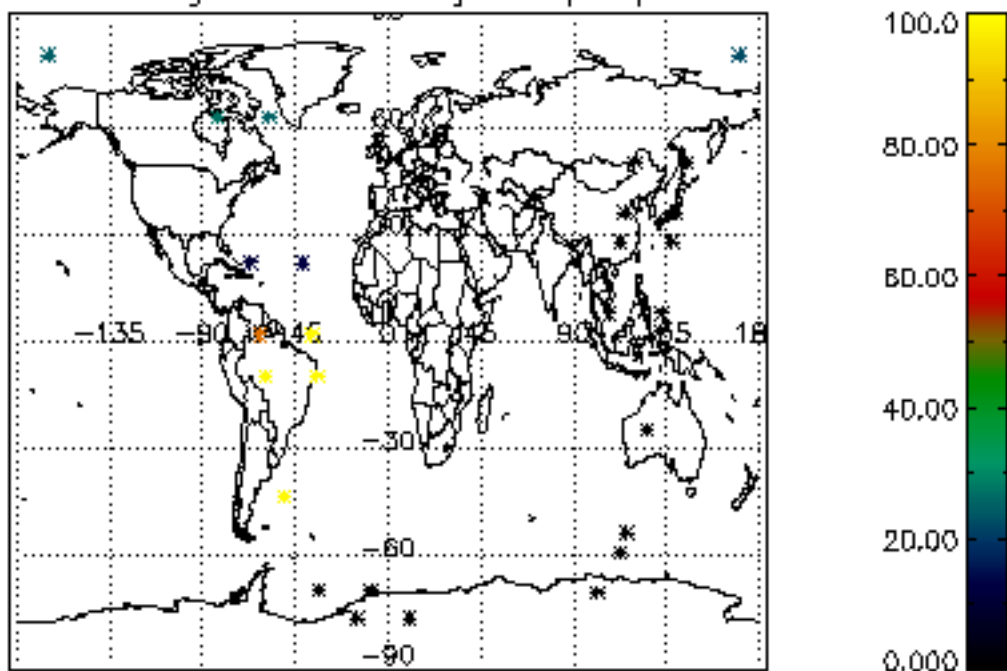




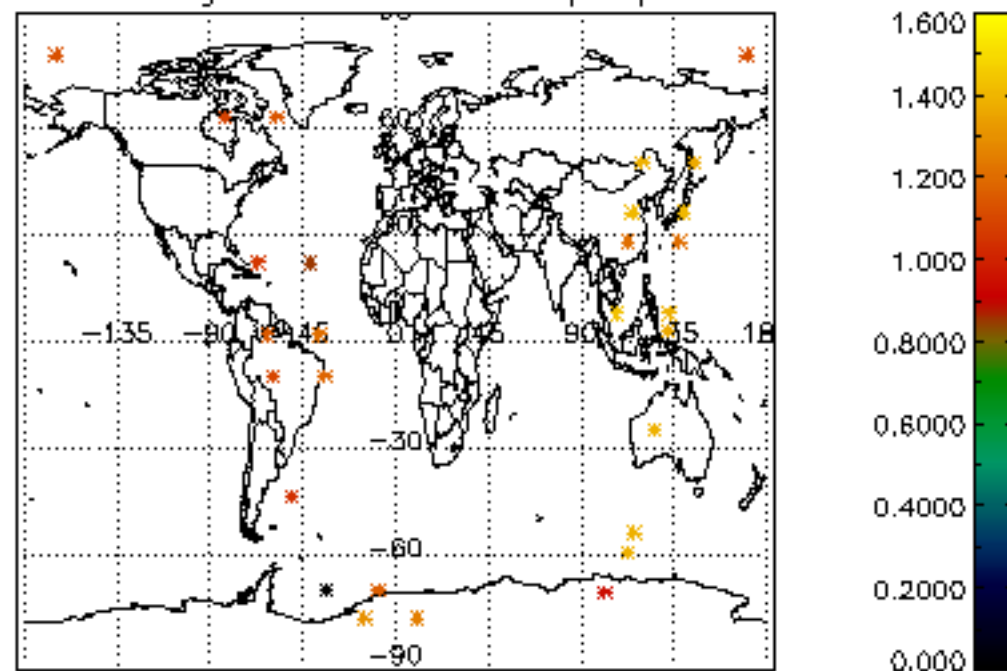




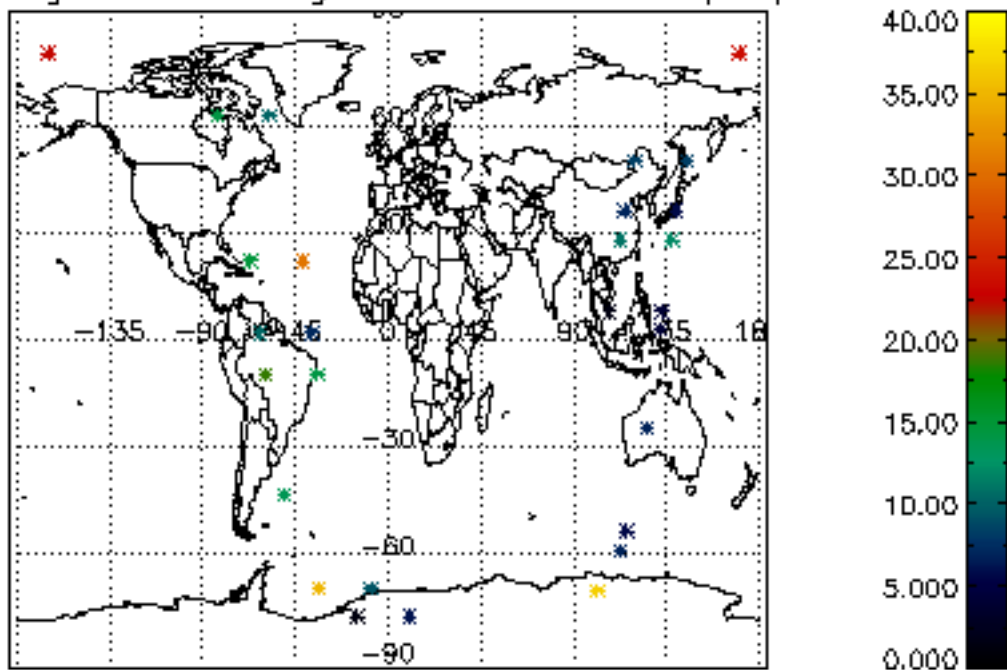
Percentage of cosmic ray hits per profile



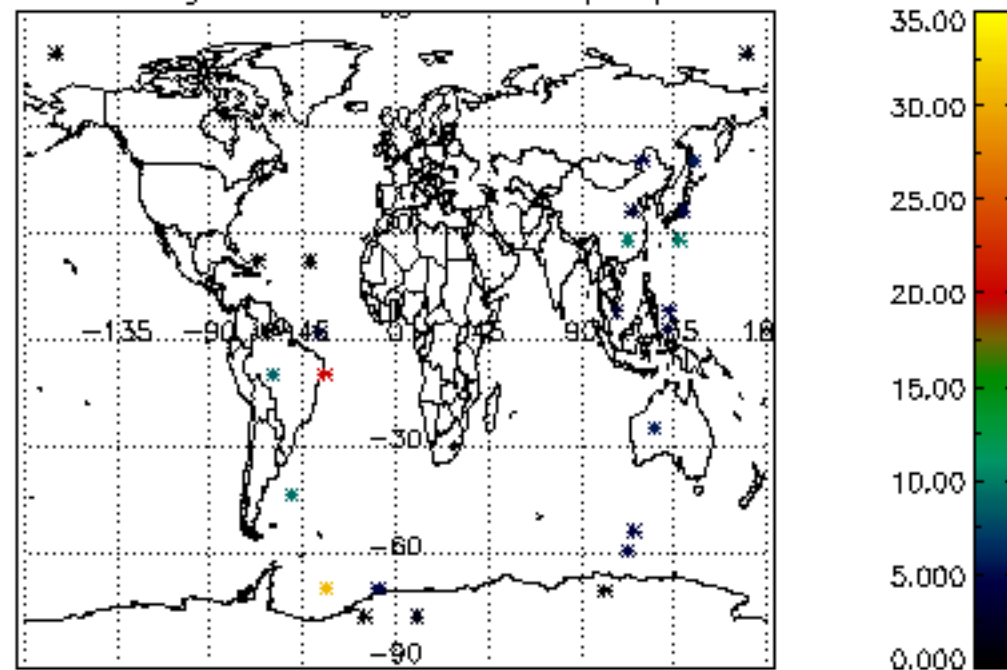
Percentage of datation errors per profile



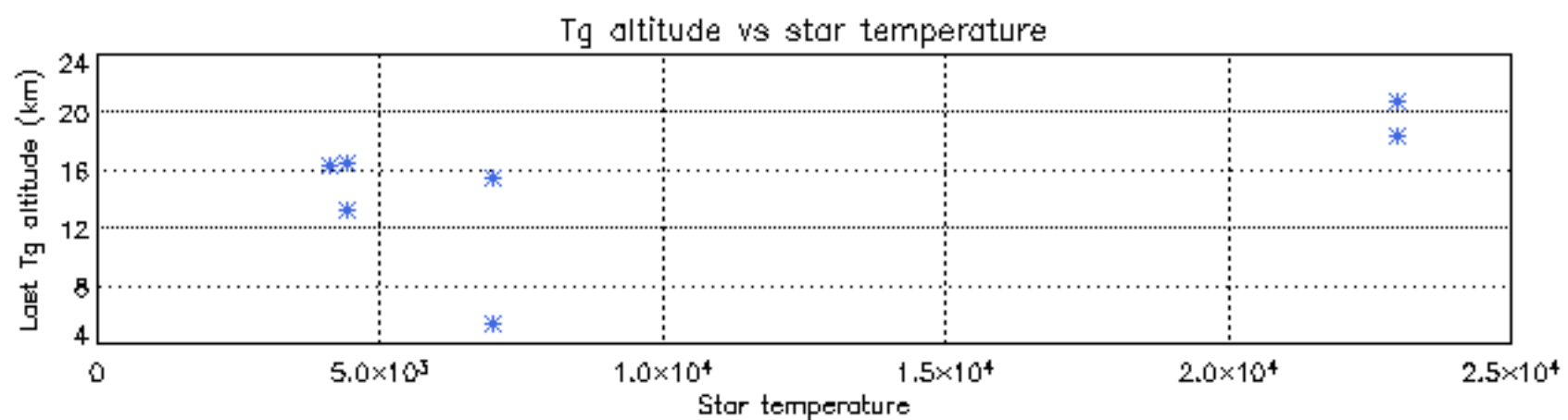
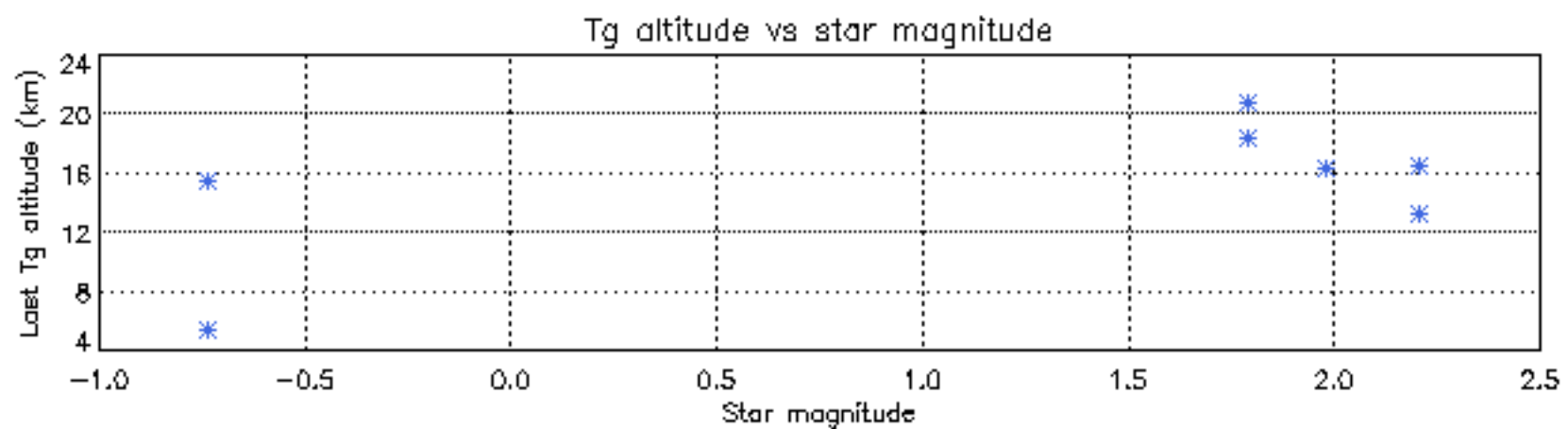
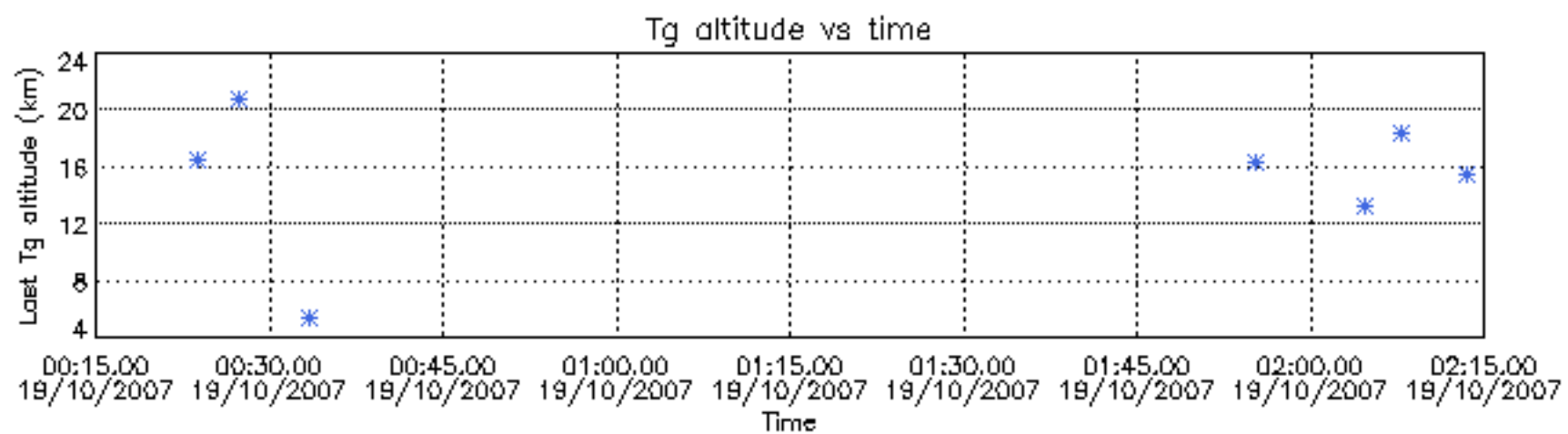
Percentage of star falling outside central band per profile



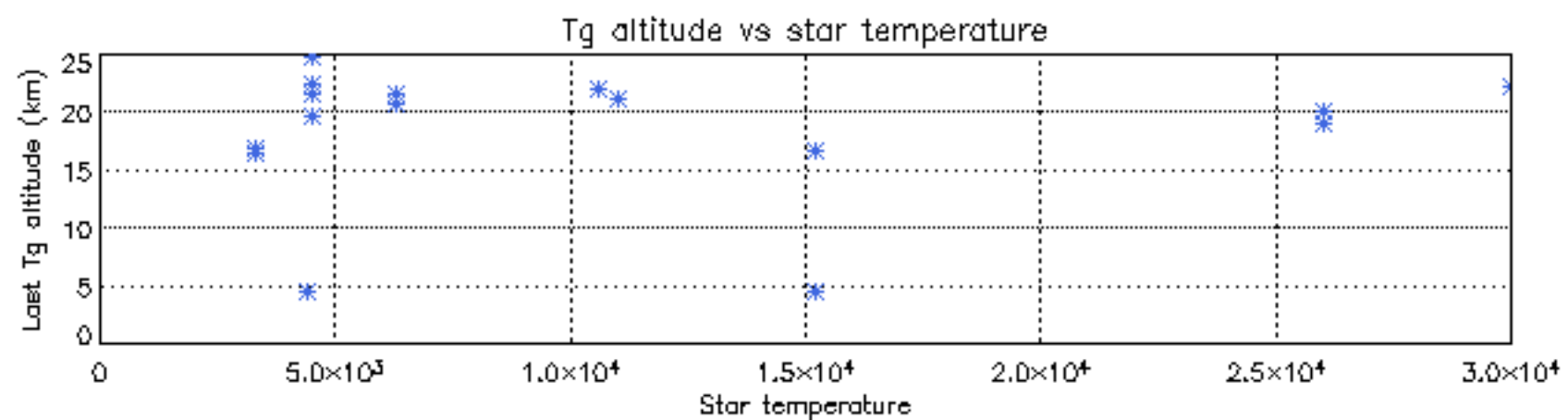
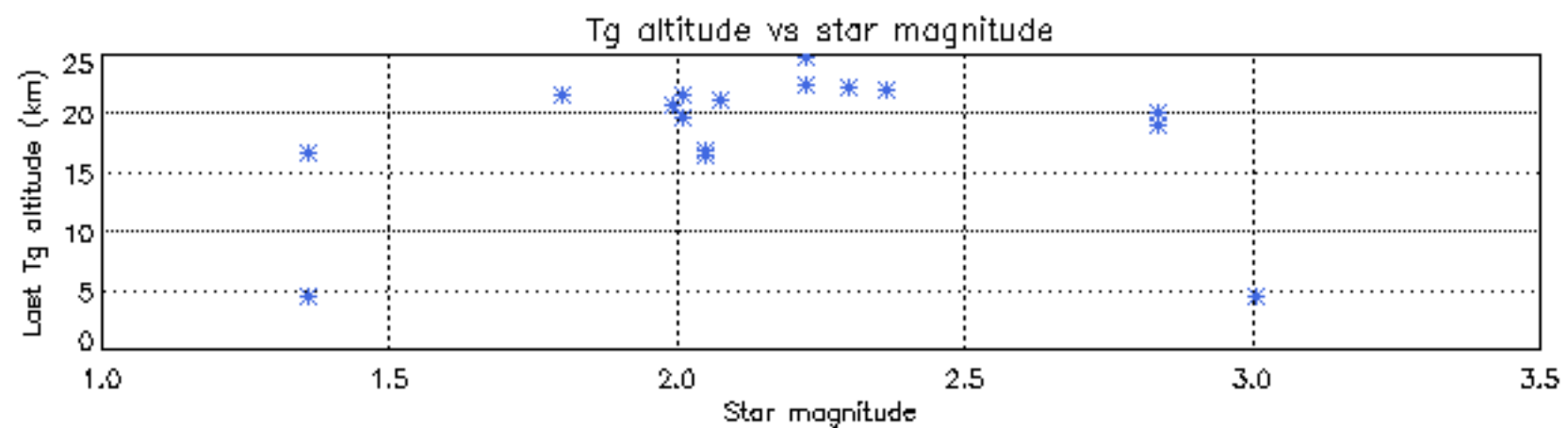
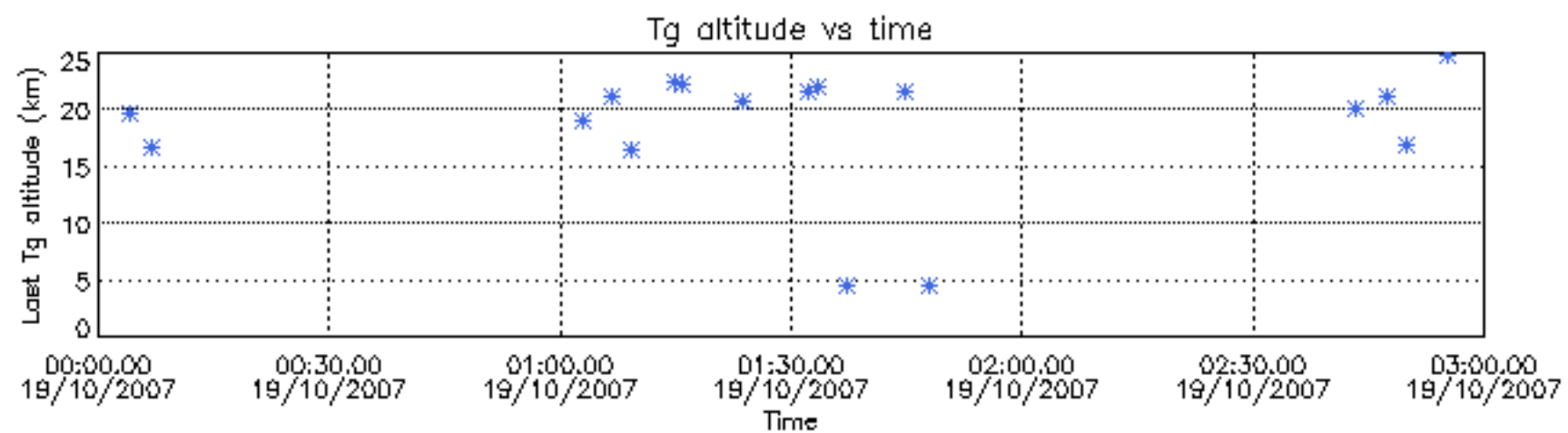
Percentage of saturation errors per profile

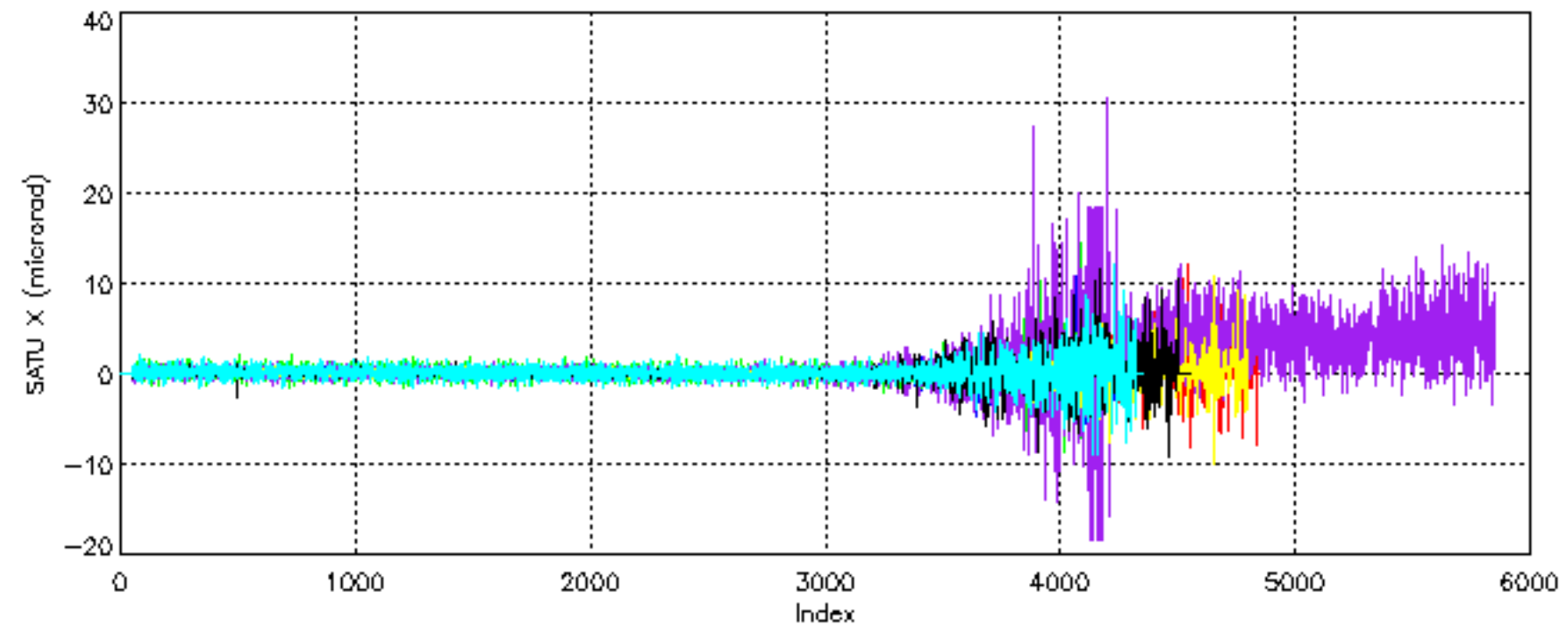


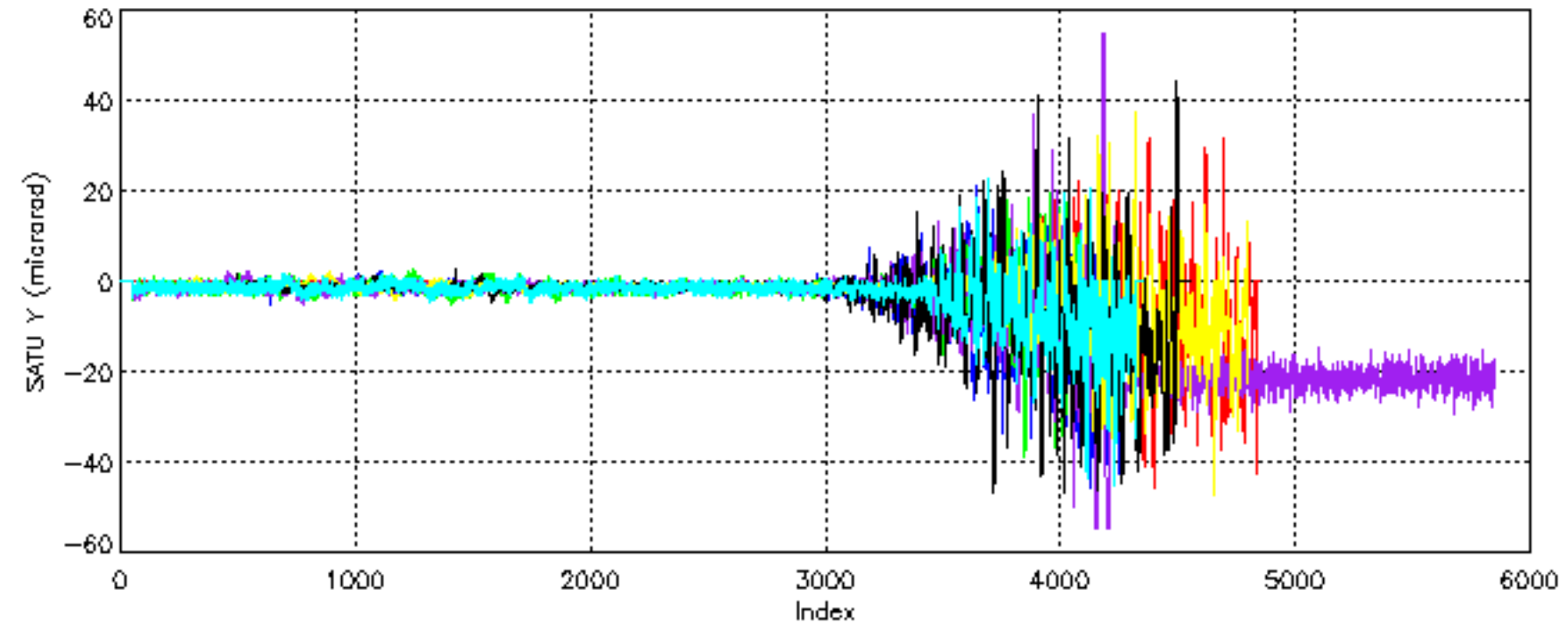
Tangent altitude at which the star is lost

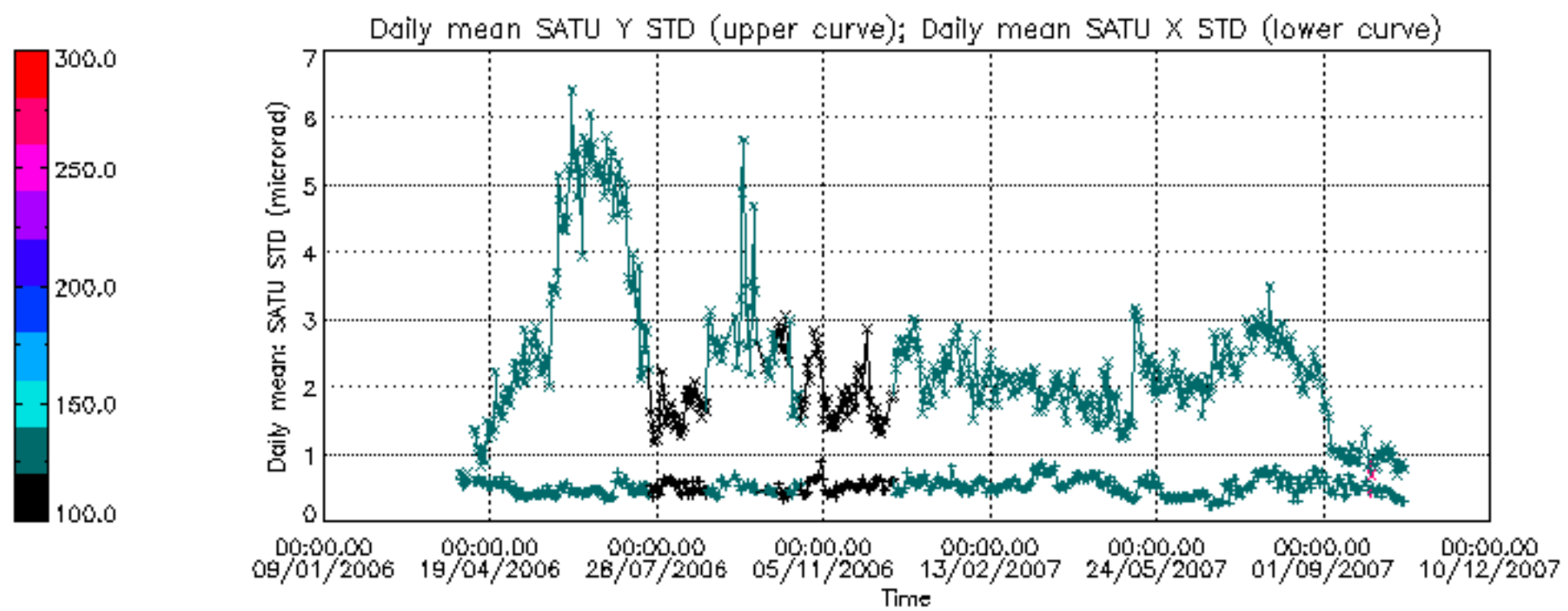


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071001_012440_000039182062_00088_29200_4448.N1

1; -454.2; 01-OCT-2007 01:24:40; Dark ; 40.0; 132; 15Rho Pup ; 2.80; 6900;occ; 80; 0;29200
 2; -296.3; 01-OCT-2007 01:27:17; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29200
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17; 4630.0; 15-OCT-2007 02:09:10; Bright; 40.5; 166; 17Eps Leo ; 2.98; 6000;occ; 81; 0;29401
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 12; 4831.3; 16-OCT-2007 11:44:30; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;29421

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10; 4216.9; 16-OCT-2007 14:55:27; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29423
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6; 3425.6; 19-OCT-2007 09:46:13; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29463
7; 3920.3; 19-OCT-2007 09:54:28; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29463
8; 4014.1; 19-OCT-2007 09:56:01; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;29463
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13; 5874.6; 19-OCT-2007 10:27:02; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;29463
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16; 6410.8; 19-OCT-2007 10:35:58; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;29463
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5; 2879.0; 19-OCT-2007 11:17:42; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29464
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7; 3425.4; 19-OCT-2007 11:26:49; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29464

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 10; 4221.1; 19-OCT-2007 16:41:52; Bright; 53.0; 174; 52Psi UMA ; 3.00; 4400;occ; 106; 0;29467
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 16; 6414.1; 19-OCT-2007 17:18:25; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29467
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 3; 2168.2; 19-OCT-2007 17:48:15; Bright; 34.0; 140; 88Gam Peg ; 2.83; 26000;occ; 68; 0;29468

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6; 2878.4; 19-OCT-2007 18:00:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29468
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13; 4848.5; 19-OCT-2007 18:32:55; Bright; 56.0; 22; 32Alp Leo ; 1.36; 15200;occ; 112; 0;29468
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16; 6214.4; 19-OCT-2007 20:36:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29469
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7;	3425.2;	21-OCT-2007	12:04:10;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	29493
8;	3622.7;	21-OCT-2007	12:07:28;	Bright;	;	37.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	75;	0;	29493
9;	3920.0;	21-OCT-2007	12:12:25;	Bright;	;	53.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	106;	0;	29493
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7;	3425.2;	21-OCT-2007	13:44:46;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	29494
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17;	6197.7;	21-OCT-2007	14:30:59;	Dark	;	38.5;	29;	Bet	Car	;	1.67;	10200;	occ;	77;	0;	29494
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21;	7117.0;	21-OCT-2007	14:46:18;	Dark	;	43.5;	157;	The1	Eri	;	2.91;	9300;	occ;	87;	0;	29494

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2;	2170.3;	21-OCT-2007	15:04:27;	Bright;	;	36.0;	140;	88Gam	Peg	;	2.83;	26000;	occ;	72;	0;	29495
3;	2404.9;	21-OCT-2007	15:08:22;	Bright;	;	36.0;	58;	21Alp	And	;	2.07;	11000;	occ;	72;	0;	29495
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6;	2953.5;	21-OCT-2007	15:17:30;	Bright;	;	38.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	76;	0;	29495
7;	3425.3;	21-OCT-2007	15:25:22;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	29495
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 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516
 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516
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 16; 6217.7; 26-OCT-2007 10:12:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29563
 17; 6877.9; 26-OCT-2007 10:23:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29563
 18; 6962.4; 26-OCT-2007 10:25:02; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29563
 19; 7145.6; 26-OCT-2007 10:28:06; Dark ; 36.0; 157; The1Eri ; 2.91; 9300;occ; 72; 0;29563
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 3; 2411.4; 26-OCT-2007 10:49:47; Bright; 34.0; 58; 21Alp And ; 2.07; 11000;occ; 68; 0;29564
 4; 2521.9; 26-OCT-2007 10:51:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29564
 5; 2869.2; 26-OCT-2007 10:57:25; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29564
 6; 2944.7; 26-OCT-2007 10:58:40; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29564
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 9; 3917.9; 26-OCT-2007 11:14:54; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29564
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 17; 6218.0; 26-OCT-2007 11:53:14; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;29564
 18; 6878.2; 26-OCT-2007 12:04:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29564
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 21; 7645.7; 26-OCT-2007 12:17:01; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29564

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 3; 2411.6; 26-OCT-2007 12:30:23; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29565
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 5; 2869.2; 26-OCT-2007 12:38:01; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29565
 6; 2944.6; 26-OCT-2007 12:39:16; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29565
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 9; 3917.9; 26-OCT-2007 12:55:30; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29565
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 13; 5832.4; 26-OCT-2007 13:27:24; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29565
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 15; 6027.5; 26-OCT-2007 13:30:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29565
 16; 6117.1; 26-OCT-2007 13:32:09; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29565
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 18; 6878.3; 26-OCT-2007 13:44:50; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29565
 19; 6962.8; 26-OCT-2007 13:46:14; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29565
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 3; 2411.7; 26-OCT-2007 14:10:59; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29566
 4; 2521.7; 26-OCT-2007 14:12:49; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29566
 5; 2869.2; 26-OCT-2007 14:18:37; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29566
 6; 2944.6; 26-OCT-2007 14:19:52; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29566
 7; 3424.6; 26-OCT-2007 14:27:52; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29566
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 11; 4227.3; 26-OCT-2007 14:41:15; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;29566
 12; 4653.2; 26-OCT-2007 14:48:21; Bright; 54.5; 96; 68Del Leo ; 2.56; 9300;occ; 109; 0;29566
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 5; 2869.2; 26-OCT-2007 15:59:13; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29567
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11; 4227.5; 26-OCT-2007 16:21:51; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29567
12; 4653.4; 26-OCT-2007 16:28:57; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29567
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15; 6029.0; 26-OCT-2007 16:51:52; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29567
16; 6118.4; 26-OCT-2007 16:53:22; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29567
17; 6219.0; 26-OCT-2007 16:55:02; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;29567
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19; 6963.2; 26-OCT-2007 17:07:27; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29567
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 9; 3917.9; 26-OCT-2007 17:57:17; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29568
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12; 4653.4; 26-OCT-2007 18:09:33; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29568
13; 5833.5; 26-OCT-2007 18:29:13; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29568
14; 6029.7; 26-OCT-2007 18:32:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29568
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16; 6219.3; 26-OCT-2007 18:35:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29568
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 5; 2179.3; 26-OCT-2007 19:08:55; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29569
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17; 6030.3; 26-OCT-2007 20:13:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29569
18; 6126.0; 26-OCT-2007 20:14:41; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;29569
19; 6219.5; 26-OCT-2007 20:16:15; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29569
20; 6879.3; 26-OCT-2007 20:27:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29569
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 7; 1112.4; 26-OCT-2007 22:12:20; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29571
 8; 1610.7; 26-OCT-2007 22:20:38; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29571
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 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
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 4; 184.1; 26-OCT-2007 23:37:27; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;29572
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 18; 4227.6; 27-OCT-2007 00:44:51; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29572
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 11; 2520.6; 27-OCT-2007 01:57:00; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;29573
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9; 184.9; 27-OCT-2007 02:58:40; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29574
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13; 1611.3; 27-OCT-2007 03:22:26; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;29574
14; 2180.2; 27-OCT-2007 03:31:55; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29574
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7; 91.8; 27-OCT-2007 04:37:43; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;29575
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4;-1380.7; 27-OCT-2007 07:34:22; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29576
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6; 12.2; 27-OCT-2007 07:57:35; Dark ; 38.5; 91; Kap Vel ; 2.49; 26000;occ; 77; 0;29577
7; 92.5; 27-OCT-2007 07:58:55; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;29577
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5; 2868.7; 27-OCT-2007 08:45:12; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29577
6; 2943.5; 27-OCT-2007 08:46:26; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;29577
7; 3424.5; 27-OCT-2007 08:54:27; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29577
8; 3640.0; 27-OCT-2007 08:58:03; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29577
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14; 6048.6; 27-OCT-2007 09:38:12; Dark ; 38.5; 91; Kap Vel ; 2.49; 26000;occ; 77; 0;29577
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