

GOMOS Daily Report 25-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	27OCT2007 05:37:49
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (25OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

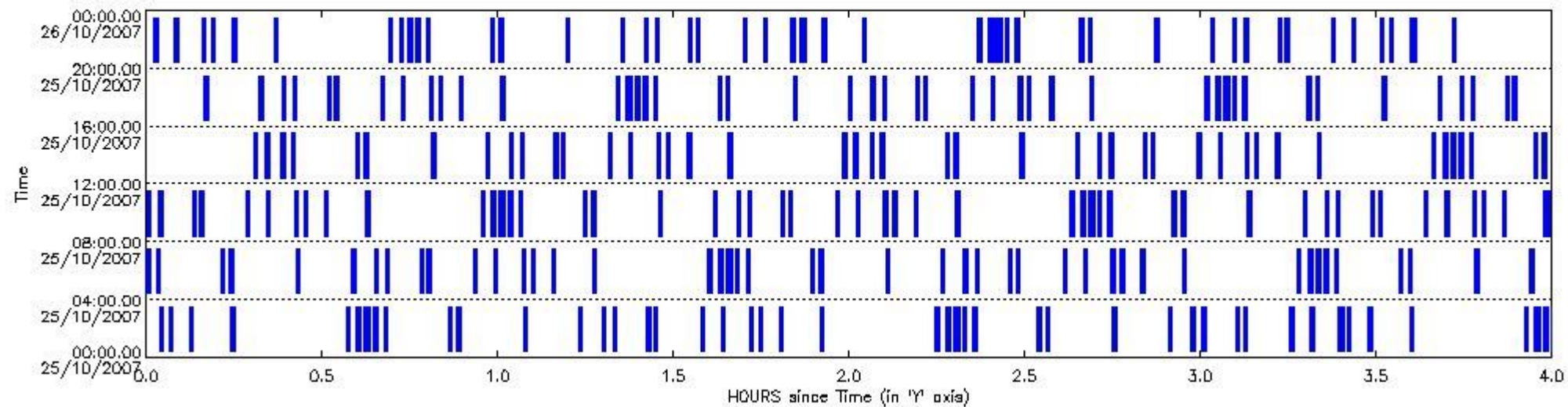
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

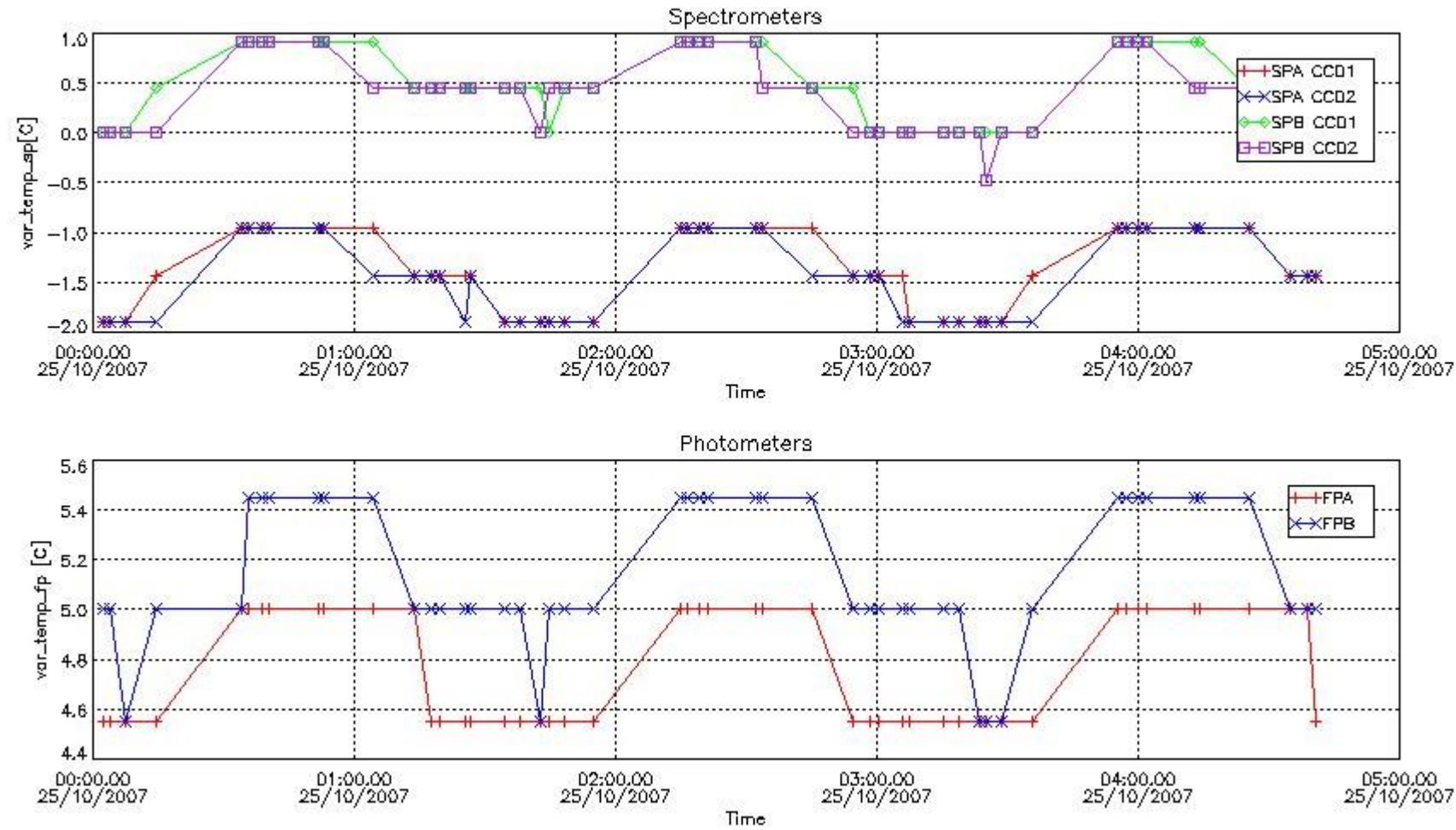
No missing products.

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_1PNPDE20071025_000220_000000392062_00431_29543_8645.N1	25-OCT-2007 00:02:20	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29543	No
2	GOM_TRA_1PNPDE20071025_000355_000000372062_00431_29543_8646.N1	25-OCT-2007 00:03:55	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29543	No
3	GOM_TRA_1PNPDE20071025_000727_000000352062_00431_29543_8647.N1	25-OCT-2007 00:07:27	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	29543	No
4	GOM_TRA_1PNPDE20071025_001429_000000452062_00431_29543_8648.N1	25-OCT-2007 00:14:29	Bright	45.000	96	68Del Leo	2.5600	9300.0	90	29543	No
5	GOM_TRA_1PNPDE20071025_003406_000000372062_00431_29543_8761.N1	25-OCT-2007 00:34:06	Dark	37.000	113	Mu Vel	2.6920	5000.0	74	29543	No
6	GOM_TRA_1PNPDE20071025_003552_000000472062_00431_29543_8762.N1	25-OCT-2007 00:35:52	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	29543	No
7	GOM_TRA_1PNPDE20071025_003845_000000412062_00432_29544_8763.N1	25-OCT-2007 00:38:45	Dark	40.500	46	Del Vel	1.9540	10600.	81	29544	No
8	GOM_TRA_1PNPDE20071025_004033_000000382062_00432_29544_8764.N1	25-OCT-2007 00:40:33	Dark	37.500	29	Bet Car	1.6720	10200.	75	29544	No
9	GOM_TRA_1PNPDE20071025_005134_000000382062_00432_29544_8765.N1	25-OCT-2007 00:51:34	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29544	No
10	GOM_TRA_1PNPDE20071025_005259_000000482062_00432_29544_8766.N1	25-OCT-2007 00:52:59	Dark	47.500	9	Alp Eri	0.45300	24000.	95	29544	No
11	GOM_TRA_1PNPDE20071025_010423_000000422062_00432_29544_8767.N1	25-OCT-2007 01:04:23	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	29544	No
12	GOM_TRA_1PNPDE20071025_011352_000000352062_00432_29544_8768.N1	25-OCT-2007 01:13:52	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29544	No

13	GOM_TRA_1PNPDE20071025_011746_000000372062_00432_29544_8769.N1	25-OCT-2007 01:17:46	Bright	36.500	58	21Alp And	2.0730	11000.	73	29544	No
14	GOM_TRA_1PNPDE20071025_011942_000000402062_00432_29544_8770.N1	25-OCT-2007 01:19:42	Bright	39.500	53	43Bet And	2.0480	3300.0	79	29544	No
15	GOM_TRA_1PNPDE20071025_012528_000000362062_00432_29544_8771.N1	25-OCT-2007 01:25:28	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29544	No
16	GOM_TRA_1PNPDE20071025_012644_000000372062_00432_29544_8772.N1	25-OCT-2007 01:26:44	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29544	No
17	GOM_TRA_1PNPDE20071025_013442_000000362062_00432_29544_8773.N1	25-OCT-2007 01:34:42	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29544	No
18	GOM_TRA_1PNPDE20071025_013810_000000362062_00432_29544_8774.N1	25-OCT-2007 01:38:10	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29544	No
19	GOM_TRA_1PNPDE20071025_014256_000000392062_00432_29544_8775.N1	25-OCT-2007 01:42:56	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29544	No
20	GOM_TRA_1PNPDE20071025_014431_000000372062_00432_29544_8776.N1	25-OCT-2007 01:44:31	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	29544	No
21	GOM_TRA_1PNPDE20071025_014803_000000352062_00432_29544_8777.N1	25-OCT-2007 01:48:03	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	29544	No
22	GOM_TRA_1PNPDE20071025_015505_000000352062_00432_29544_8778.N1	25-OCT-2007 01:55:05	Bright	35.000	96	68Del Leo	2.5600	9300.0	70	29544	No
23	GOM_TRA_1PNPDE20071025_021443_000000372062_00432_29544_8896.N1	25-OCT-2007 02:14:43	Dark	37.000	113	Mu Vel	2.6920	5000.0	74	29544	No
24	GOM_TRA_1PNPDE20071025_021628_000000472062_00432_29544_8897.N1	25-OCT-2007 02:16:28	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	29544	No
25	GOM_TRA_1PNPDE20071025_021921_000000412062_00433_29545_8898.N1	25-OCT-2007 02:19:21	Dark	41.000	46	Del Vel	1.9540	10600.	82	29545	No
26	GOM_TRA_1PNPDE20071025_022109_000000402062_00433_29545_8899.N1	25-OCT-2007 02:21:09	Dark	39.500	29	Bet Car	1.6720	10200.	79	29545	No
27	GOM_TRA_1PNPDE20071025_023210_000000372062_00433_29545_8900.N1	25-OCT-2007 02:32:10	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	29545	No
28	GOM_TRA_1PNPDE20071025_023335_000000452062_00433_29545_8901.N1	25-OCT-2007 02:33:35	Dark	44.500	9	Alp Eri	0.45300	24000.	89	29545	No
29	GOM_TRA_1PNPDE20071025_024500_000000432062_00433_29545_8902.N1	25-OCT-2007 02:45:00	Straylight	42.500	52	16Bet Cet	2.0370	4500.0	85	29545	No
30	GOM_TRA_1PNPDE20071025_025429_000000352062_00433_29545_8903.N1	25-OCT-2007 02:54:29	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29545	No
31	GOM_TRA_1PNPDE20071025_025822_000000372062_00433_29545_8904.N1	25-OCT-2007 02:58:22	Bright	37.000	58	21Alp And	2.0730	11000.	74	29545	No
32	GOM_TRA_1PNPDE20071025_030018_000000372062_00433_29545_8905.N1	25-OCT-2007 03:00:18	Bright	37.000	53	43Bet And	2.0480	3300.0	74	29545	No
33	GOM_TRA_1PNPDE20071025_030603_000000362062_00433_29545_8906.N1	25-OCT-2007 03:06:03	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29545	No
34	GOM_TRA_1PNPDE20071025_030720_000000362062_00433_29545_8907.N1	25-OCT-2007 03:07:20	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29545	No
35	GOM_TRA_1PNPDE20071025_031518_000000362062_00433_29545_8908.N1	25-OCT-2007 03:15:18	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29545	No
36	GOM_TRA_1PNPDE20071025_031847_000000362062_00433_29545_9053.N1	25-OCT-2007 03:18:47	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29545	No
37	GOM_TRA_1PNPDE20071025_032332_000000542062_00433_29545_9054.N1	25-OCT-2007 03:23:32	Bright	54.000	36	50Alp UMa	1.8000	6300.0	108	29545	No
38	GOM_TRA_1PNPDE20071025_032507_000000362062_00433_29545_9055.N1	25-OCT-2007 03:25:07	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	29545	No
39	GOM_TRA_1PNPDE20071025_032839_000000512062_00433_29545_9056.N1	25-OCT-2007 03:28:39	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	29545	No
40	GOM_TRA_1PNPDE20071025_033542_000000352062_00433_29545_9057.N1	25-OCT-2007 03:35:42	Bright	34.500	96	68Del Leo	2.5600	9300.0	69	29545	No
41	GOM_TRA_1PNPDE20071025_035519_000000392062_00433_29545_9058.N1	25-OCT-2007 03:55:19	Dark	38.500	113	Mu Vel	2.6920	5000.0	77	29545	No
42	GOM_TRA_1PNPDE20071025_035705_000000542062_00433_29545_9059.N1	25-OCT-2007 03:57:05	Dark	53.500	65	Lam Vel	2.2040	4400.0	107	29545	No
43	GOM_TRA_1PNPDE20071025_035958_000000412062_00434_29546_9060.N1	25-OCT-2007 03:59:58	Dark	40.500	46	Del Vel	1.9540	10600.	81	29546	No
44	GOM_TRA_1PNPDE20071025_040145_000000372062_00434_29546_9061.N1	25-OCT-2007 04:01:45	Dark	36.500	29	Bet Car	1.6720	10200.	73	29546	No
45	GOM_TRA_1PNPDE20071025_041247_000000372062_00434_29546_9062.N1	25-OCT-2007 04:12:47	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	29546	No
46	GOM_TRA_1PNPDE20071025_041412_000000382062_00434_29546_9063.N1	25-OCT-2007 04:14:12	Dark	38.000	9	Alp Eri	0.45300	24000.	76	29546	No
47	GOM_TRA_1PNPDE20071025_042536_000000412062_00434_29546_9064.N1	25-OCT-2007 04:25:36	Straylight	40.500	52	16Bet Cet	2.0370	4500.0	81	29546	No
48	GOM_TRA_1PNPDE20071025_043505_000000352062_00434_29546_9065.N1	25-OCT-2007 04:35:05	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29546	No
49	GOM_TRA_1PNPDE20071025_043858_000000352062_00434_29546_9066.N1	25-OCT-2007 04:38:58	Bright	35.000	58	21Alp And	2.0730	11000.	70	29546	No
50	GOM_TRA_1PNPDE20071025_044054_000000372062_00434_29546_9067.N1	25-OCT-2007 04:40:54	Bright	37.000	53	43Bet And	2.0480	3300.0	74	29546	No

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



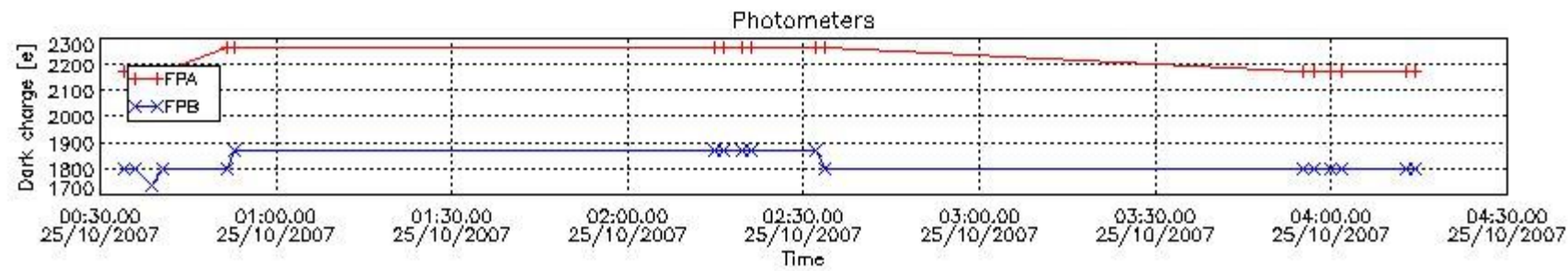
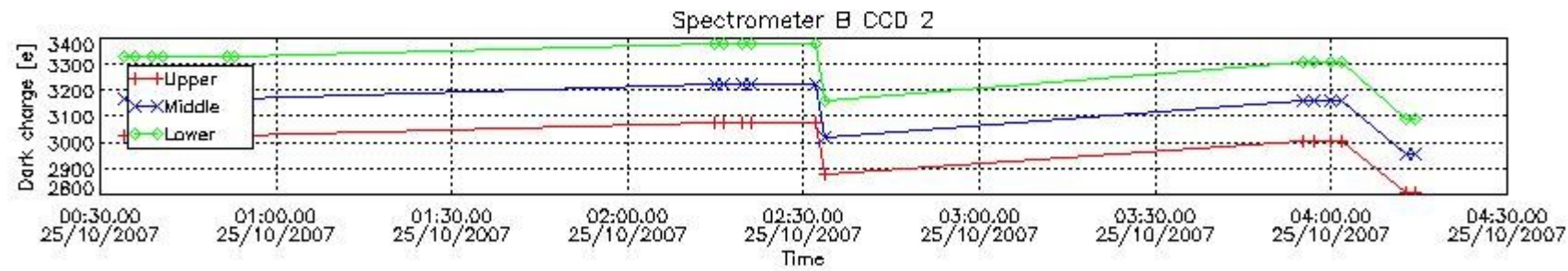
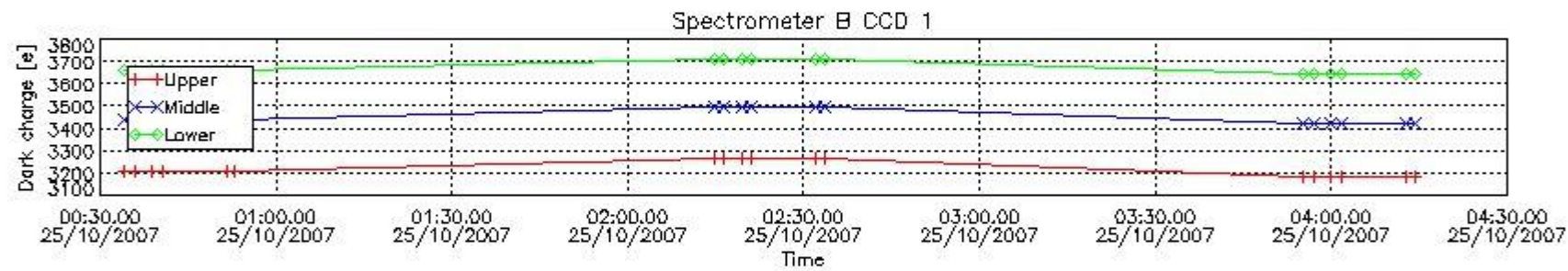
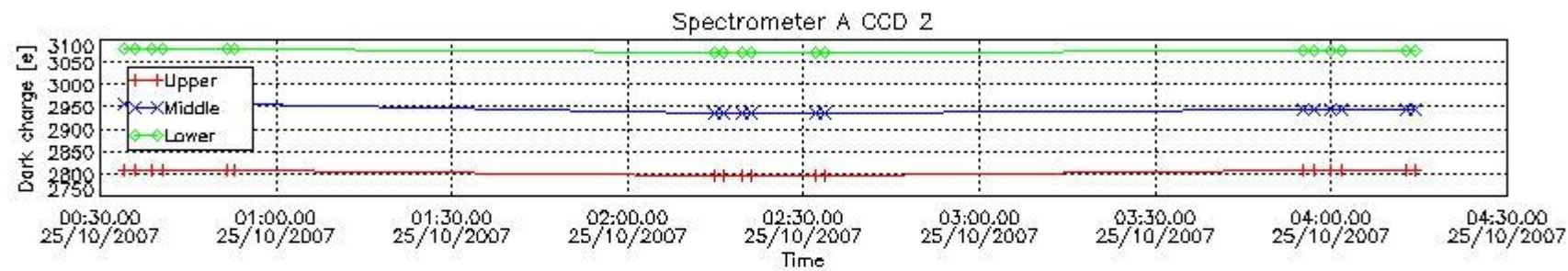
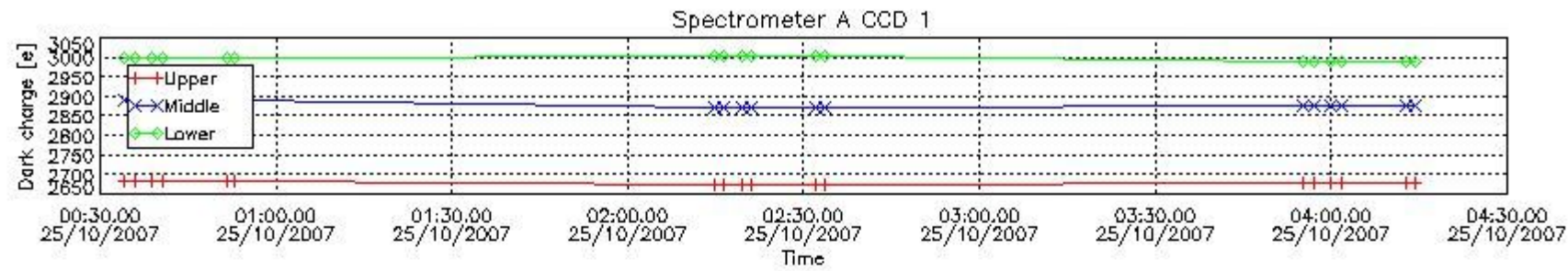
4. Overview of dark signal processing per product

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



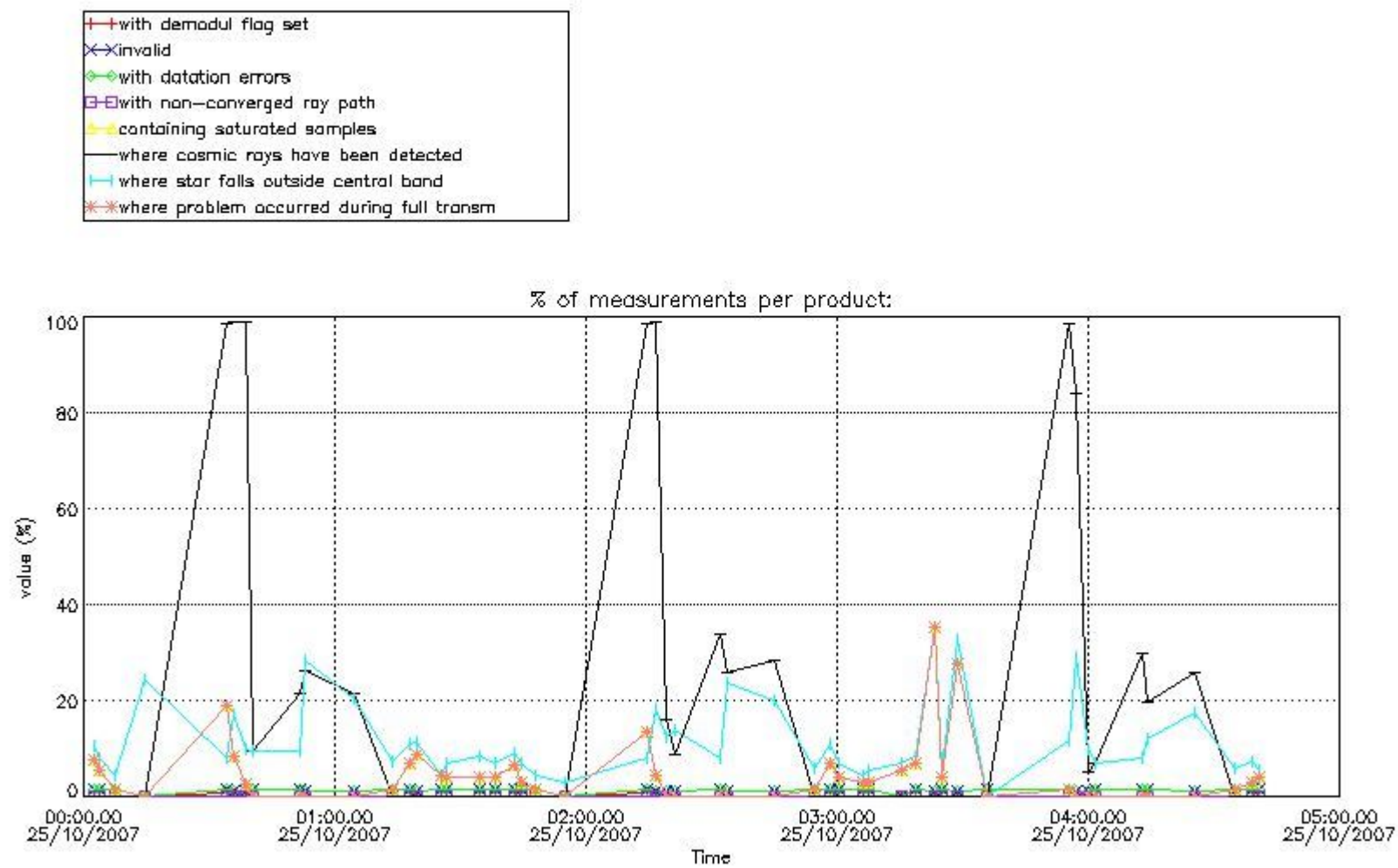
5. Demodulation flag and quality information monitoring

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.

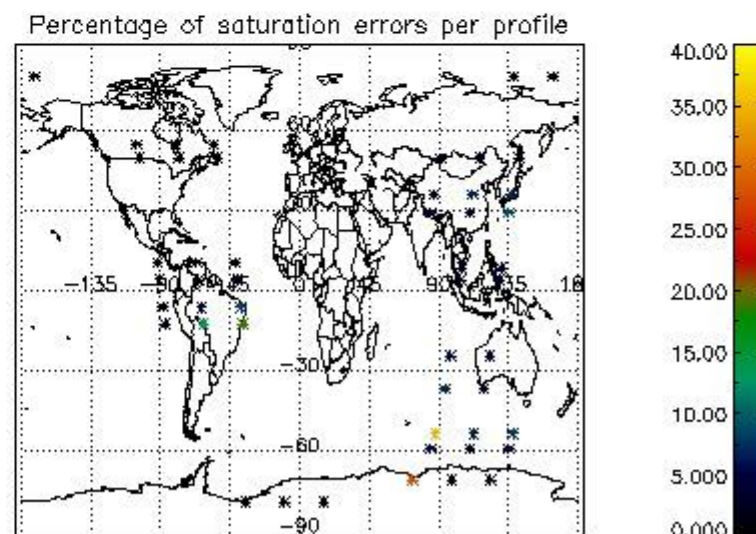
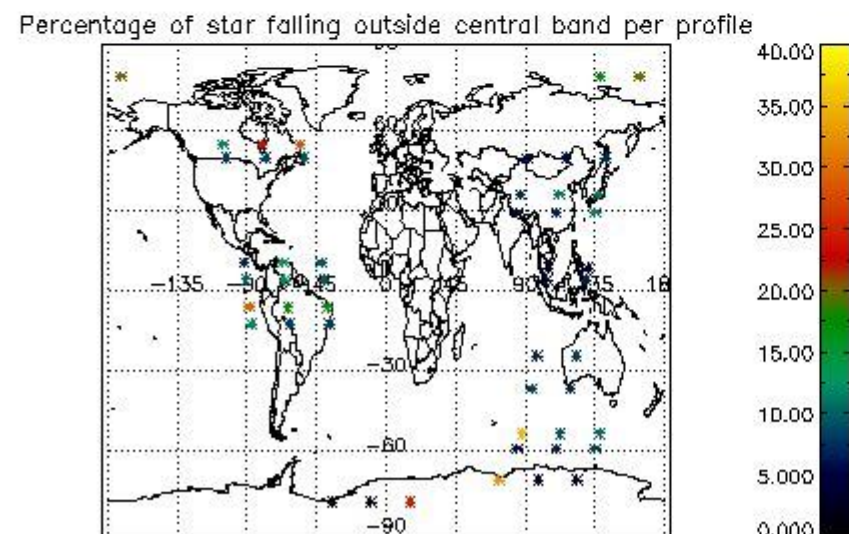
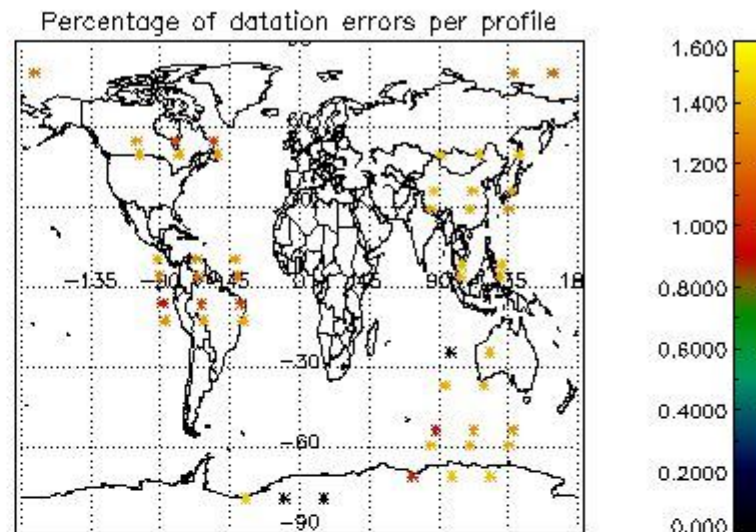
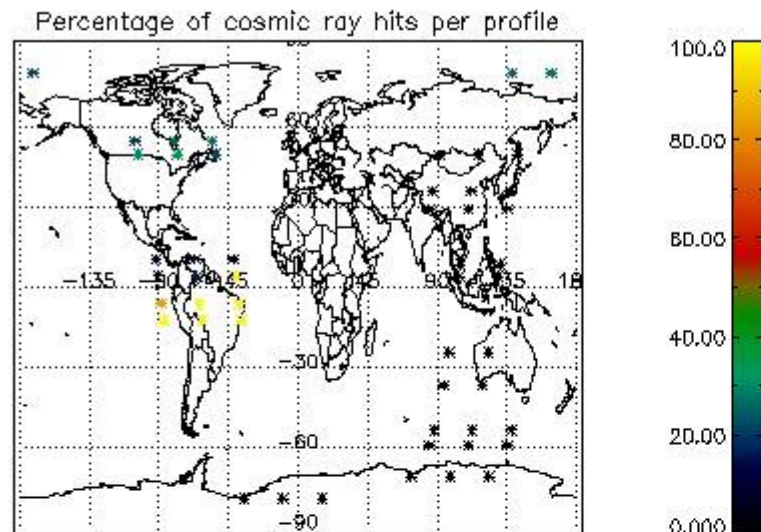
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



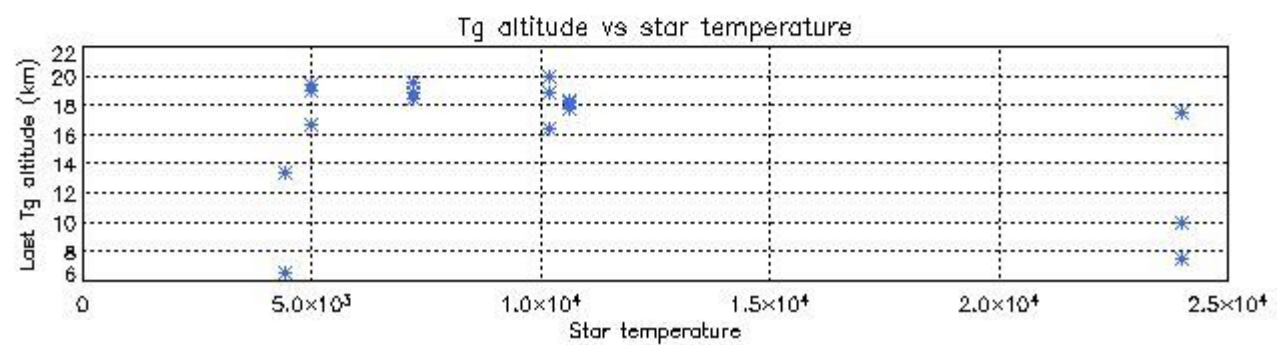
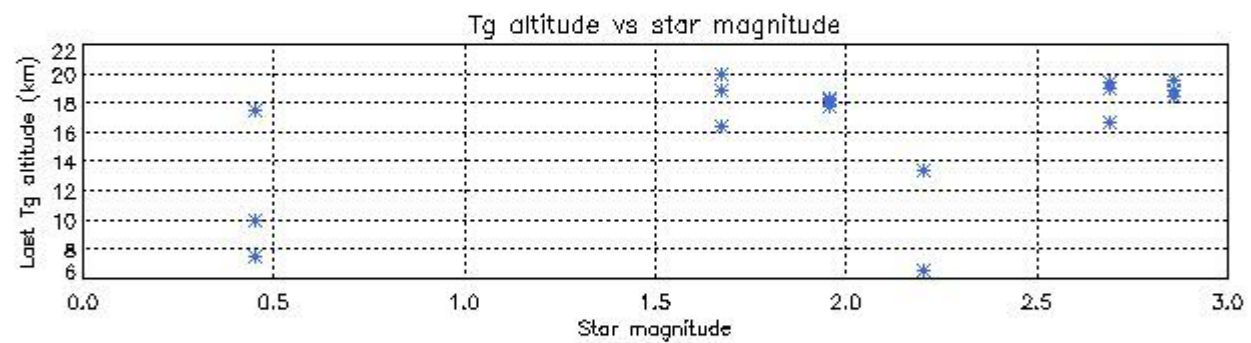
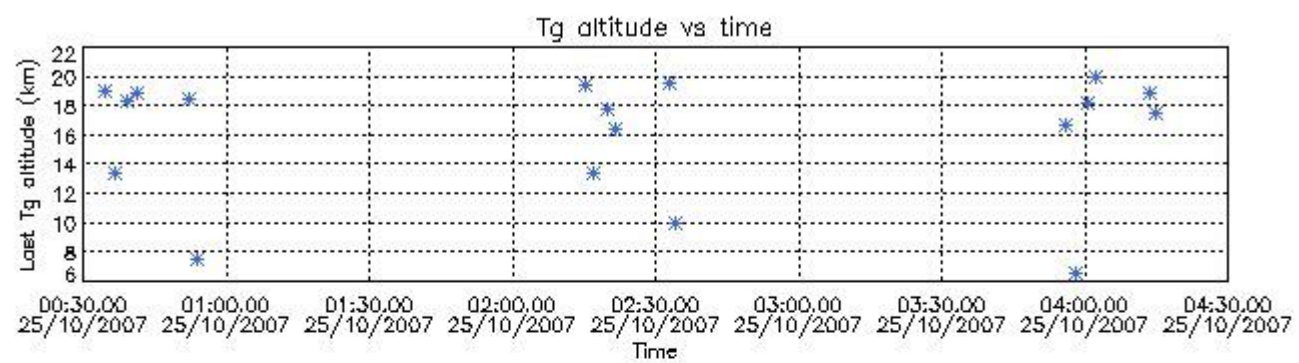
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.094	19.874	NaN
St. deviation:	4.1934	4.9943	NaN
Maximum:	20.009	25.221	NaN
Minimum:	6.5518	3.9437	NaN
Number of data:	18.000	29.000	NaN

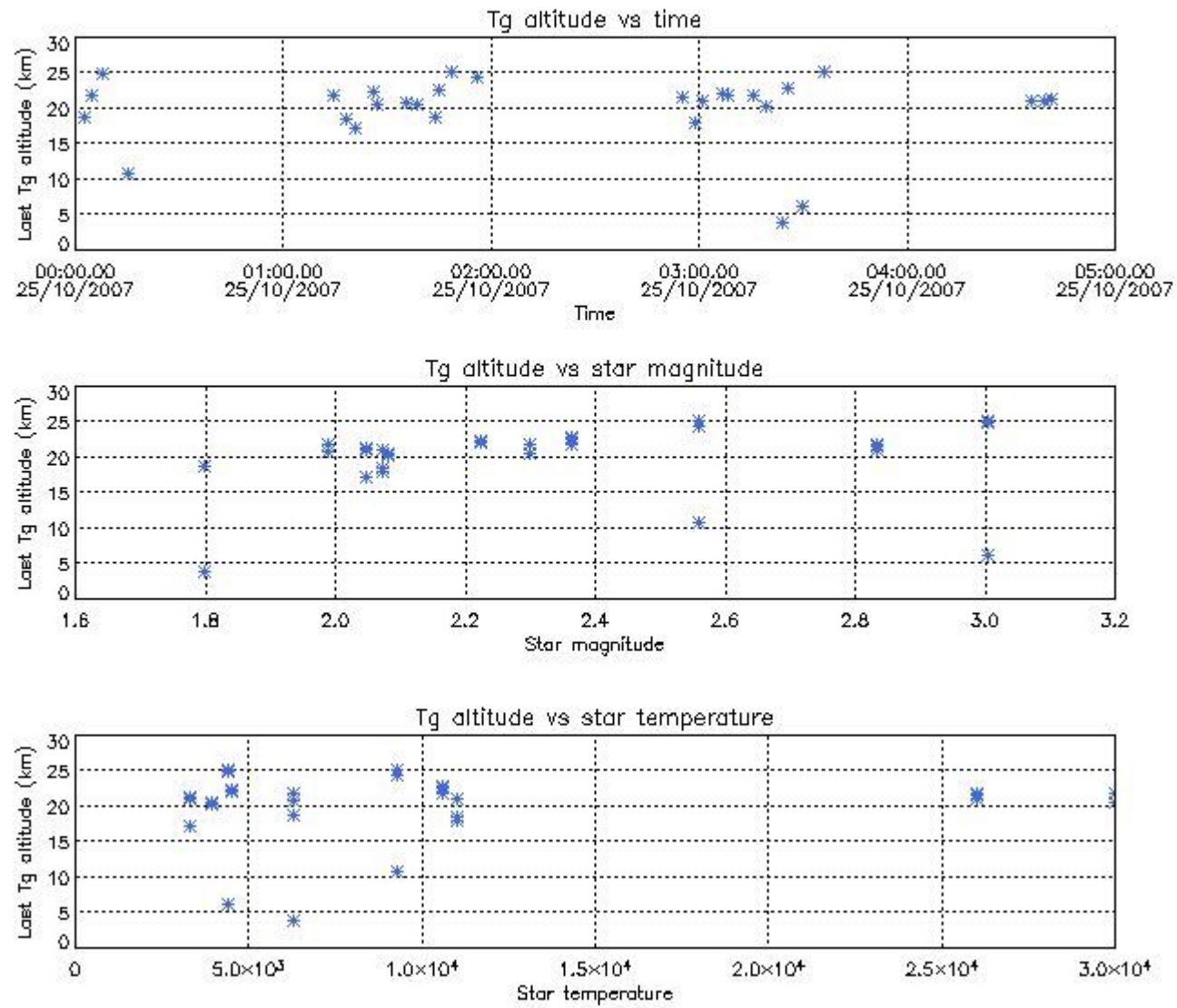
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

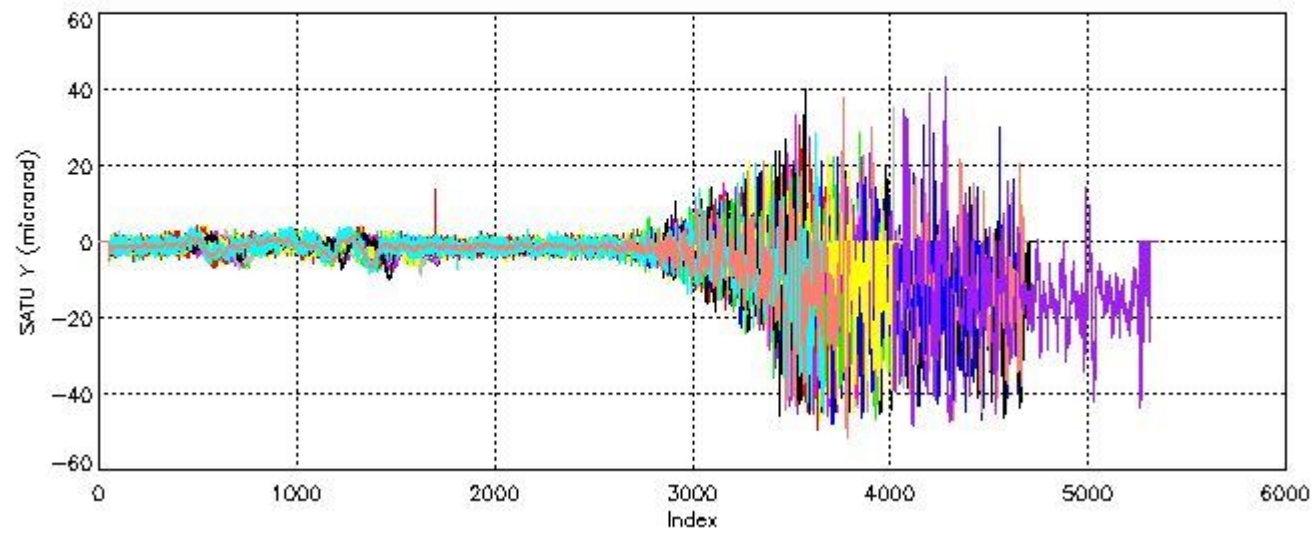
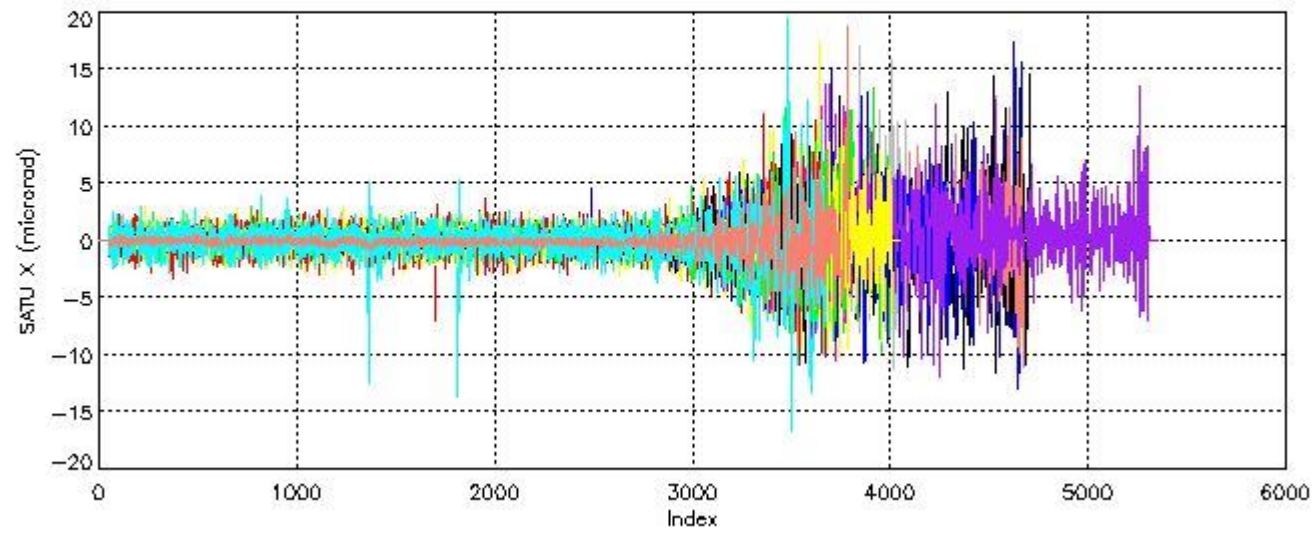


7. Star Acquisition and Tracking Unit (SATU)

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:	0.050910	-1.2218	0.038995	-1.2742
St. deviation:	0.48954	1.3380	0.73025	1.6020
Maximum:	3.9000	4.4000	5.2000	6.4000
Minimum:	-3.3000	-7.2000	-5.3000	-9.5000

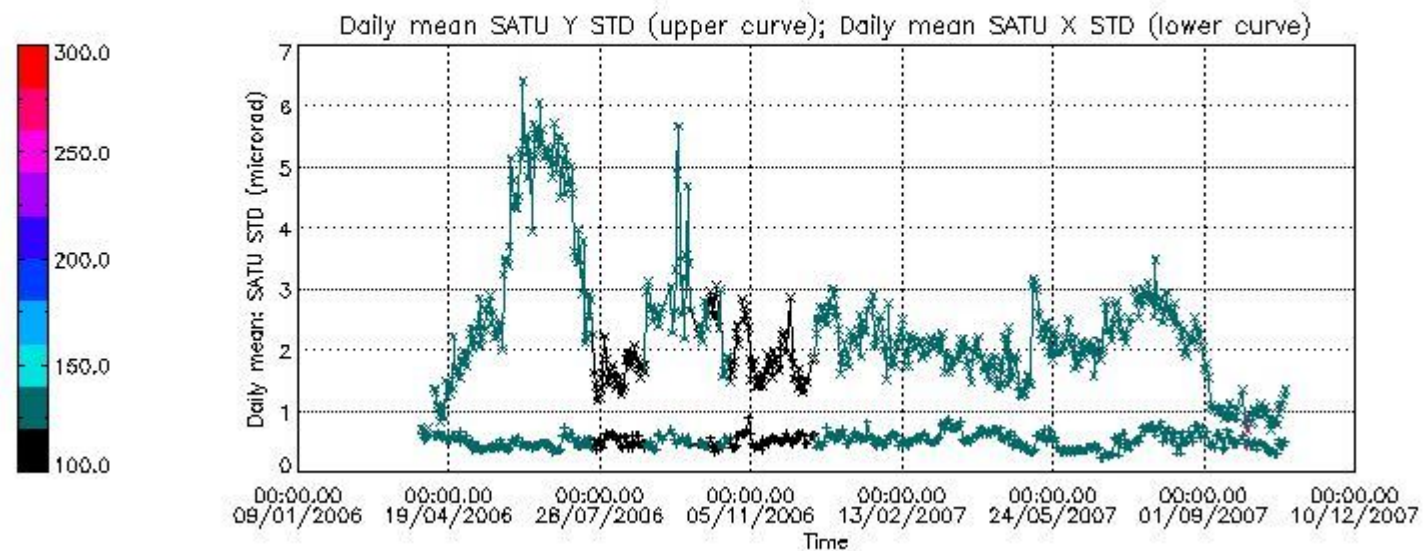
Number of data:	16000.	16000.	24100.	24100.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

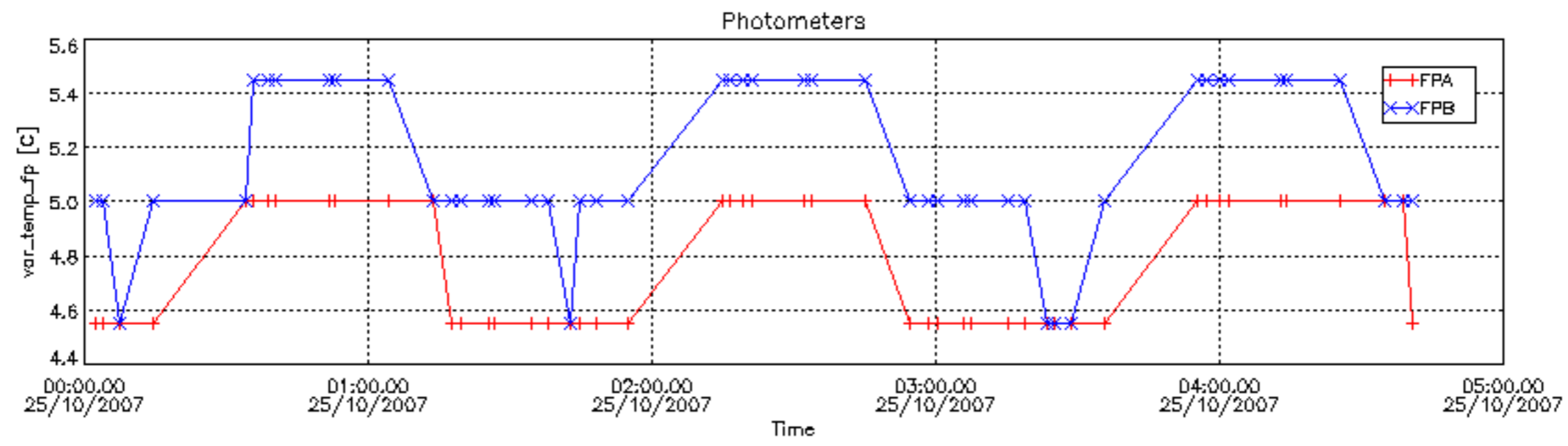
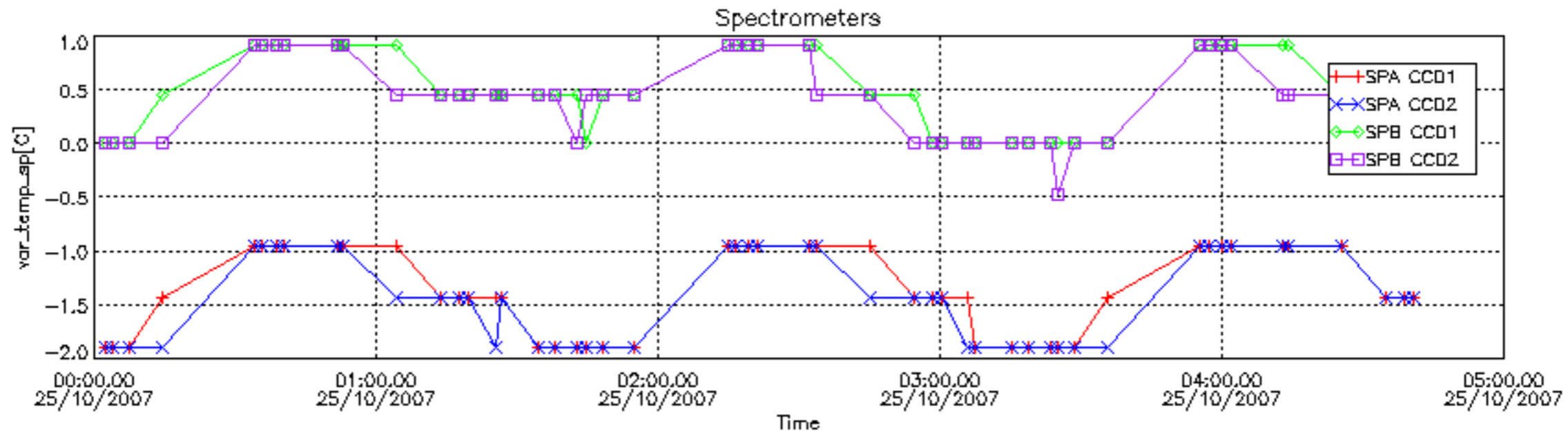
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

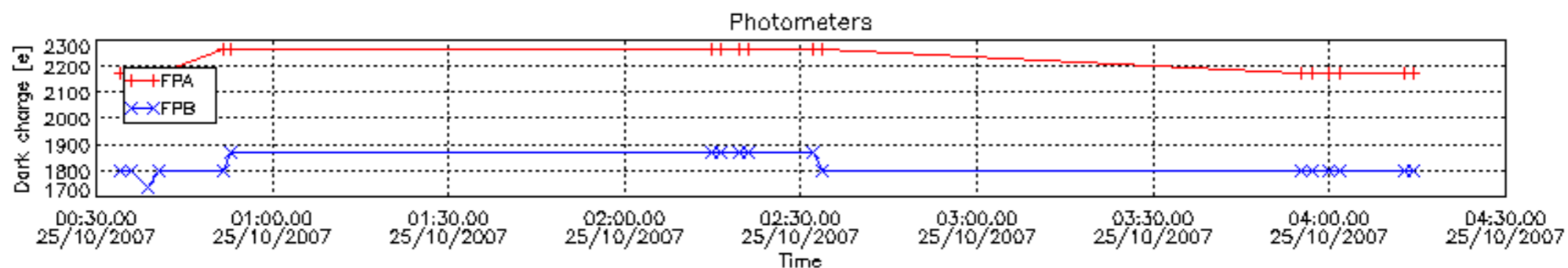
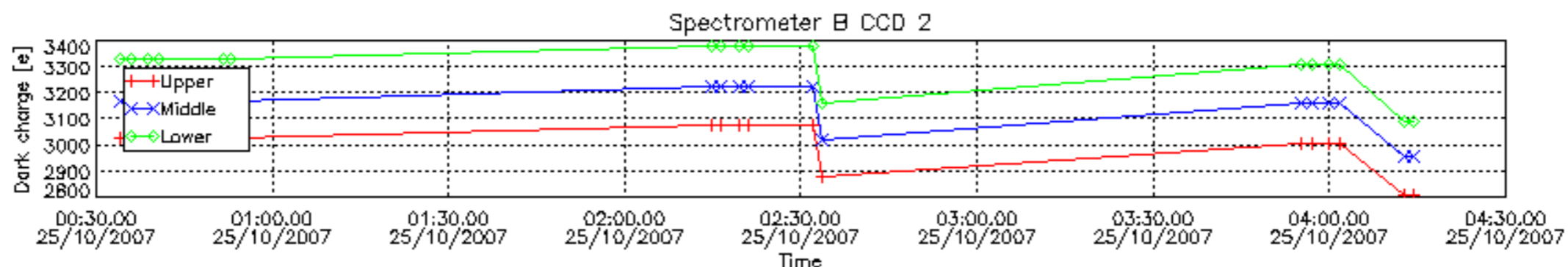
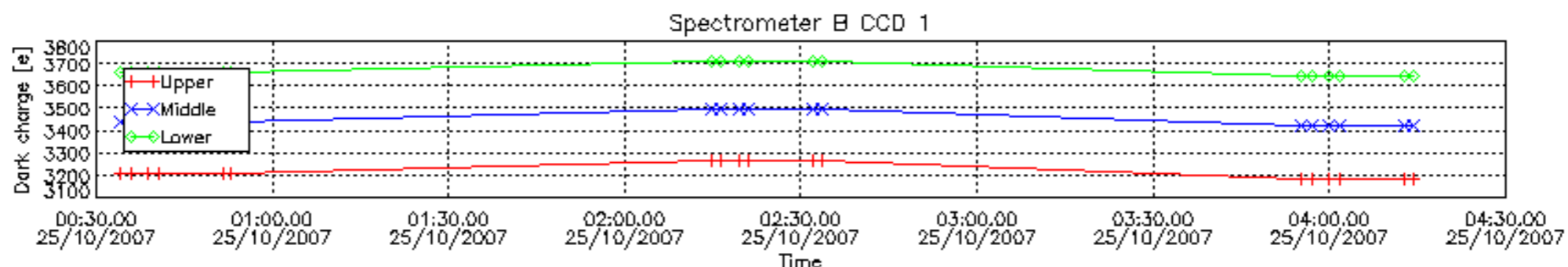
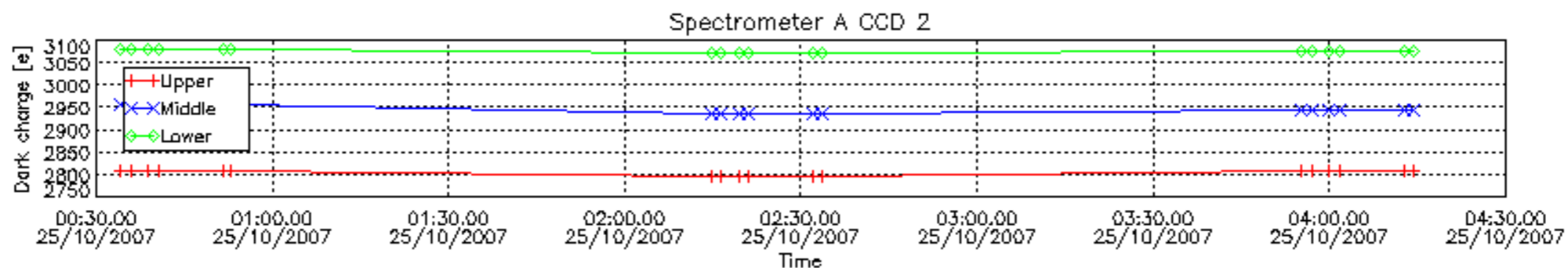
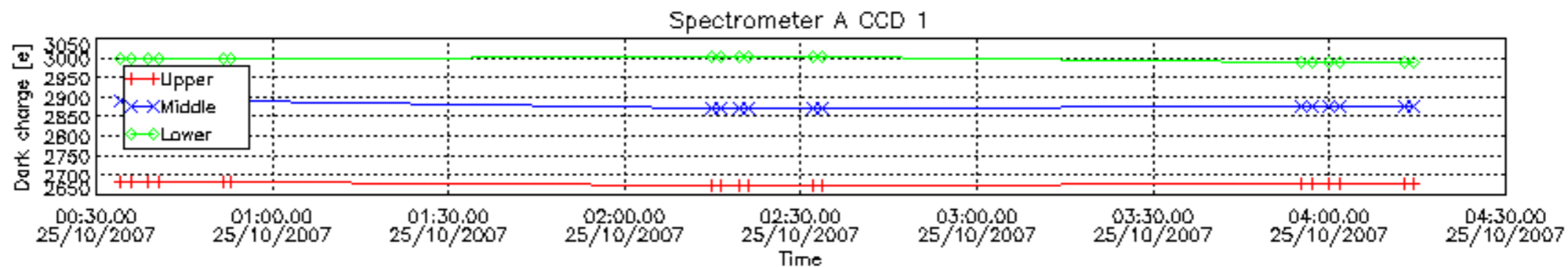


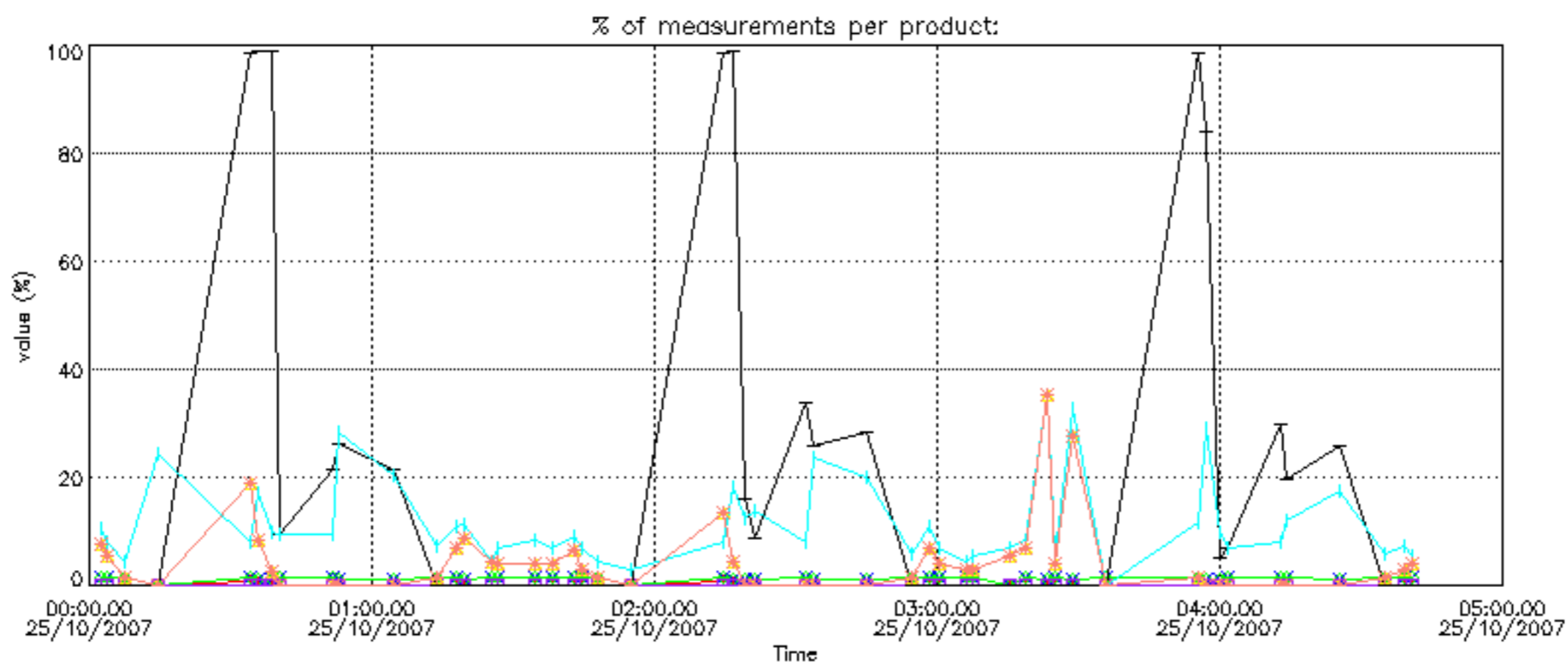
8. Auxiliary Data Files used for the production reported in section 2.4

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.

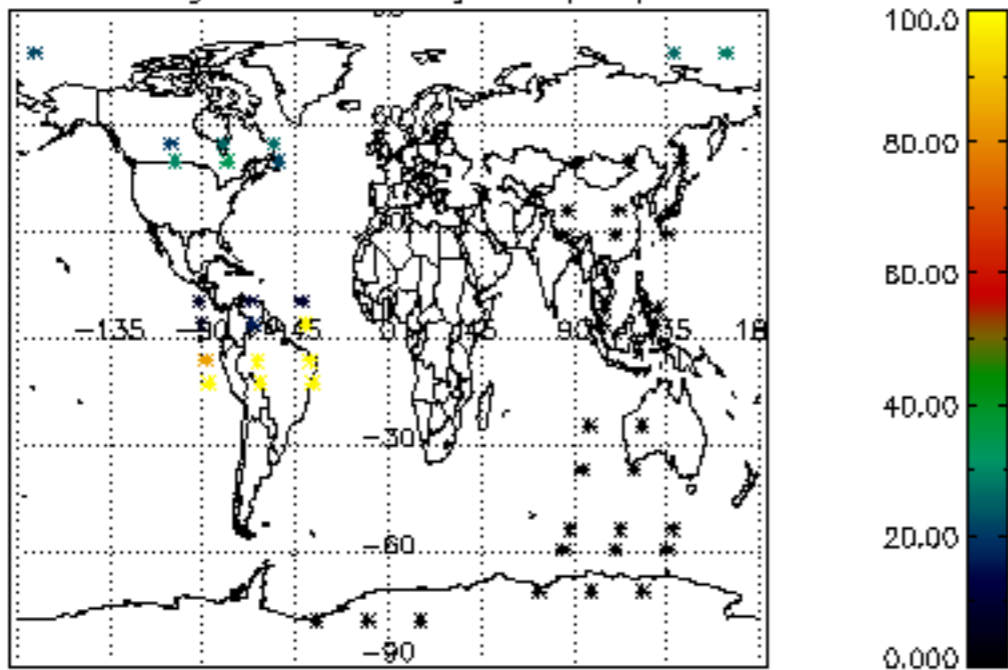
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-OCT-2007 00:02:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000	1	25-OCT-2007 00:02:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-OCT-2007 00:02:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-OCT-2007 00:02:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-OCT-2007 00:02:20
ECMWF_FILE	AUX_ECF_AXNECM20071024_060117_20071024_210000_20071025_090000	1	25-OCT-2007 00:02:20
ECMWF_FILE	AUX_ECF_AXNECM20071024_180113_20071025_030000_20071025_150000	36	25-OCT-2007 03:18:47
OPTIONAL_ECMWF_FILE	MISSING	1	25-OCT-2007 00:02:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071024_205605_000060572062_00429_29541_4423.N1	1	25-OCT-2007 00:02:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071024_224221_000057382062_00430_29542_4424.N1	5	25-OCT-2007 00:34:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071025_002318_000054192062_00431_29543_4425.N1	23	25-OCT-2007 02:14:43
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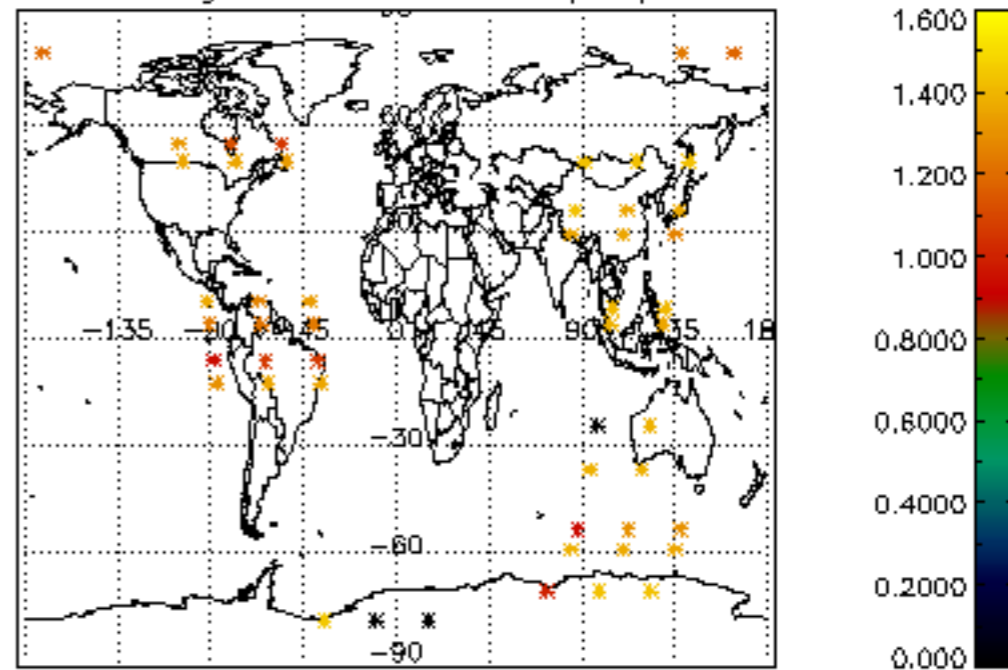




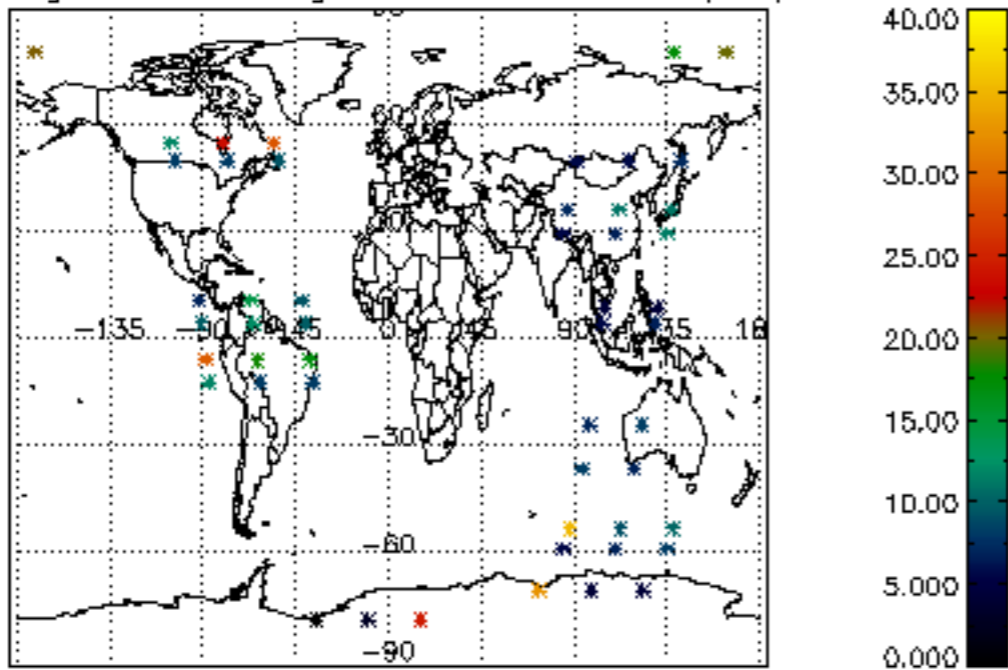
Percentage of cosmic ray hits per profile



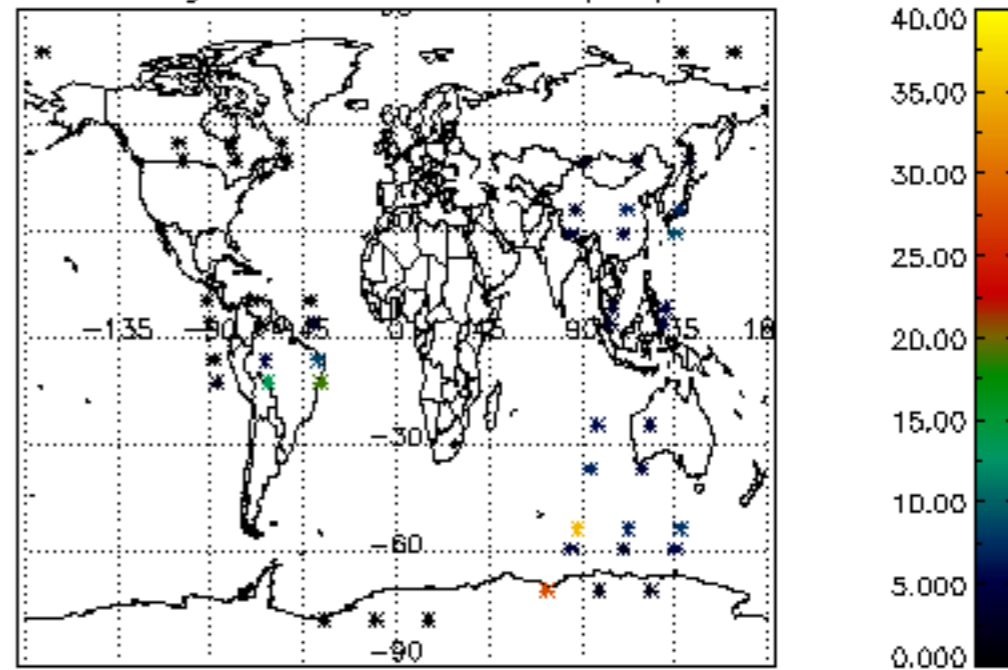
Percentage of datation errors per profile



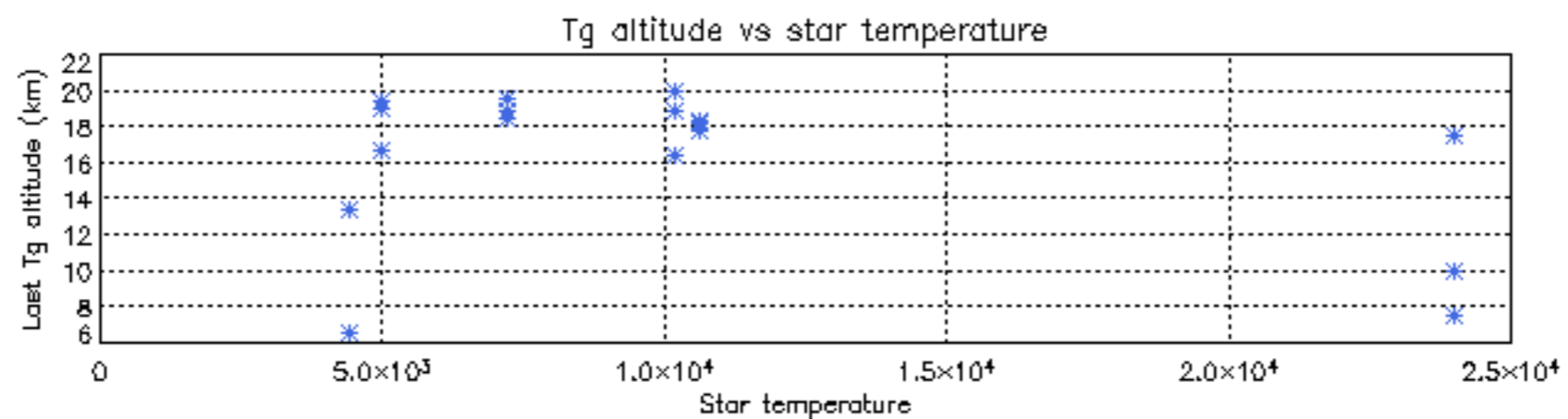
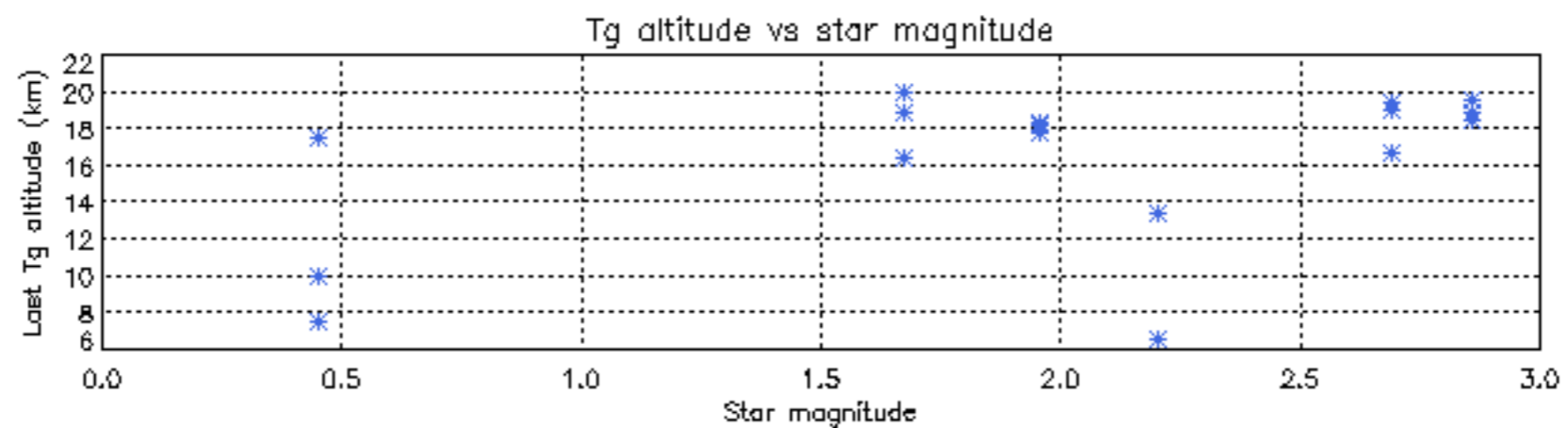
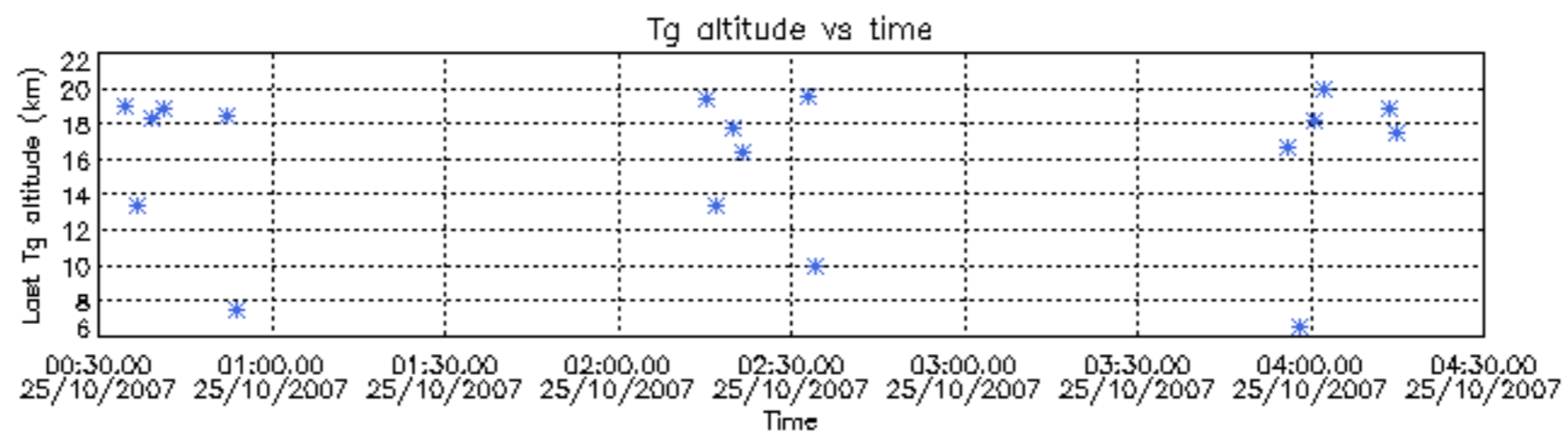
Percentage of star falling outside central band per profile



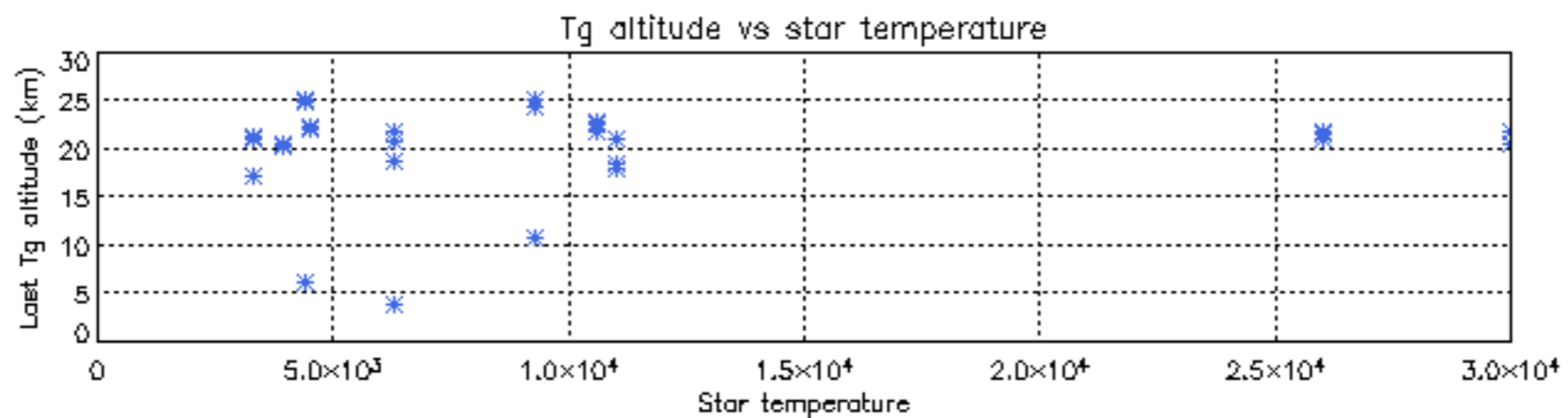
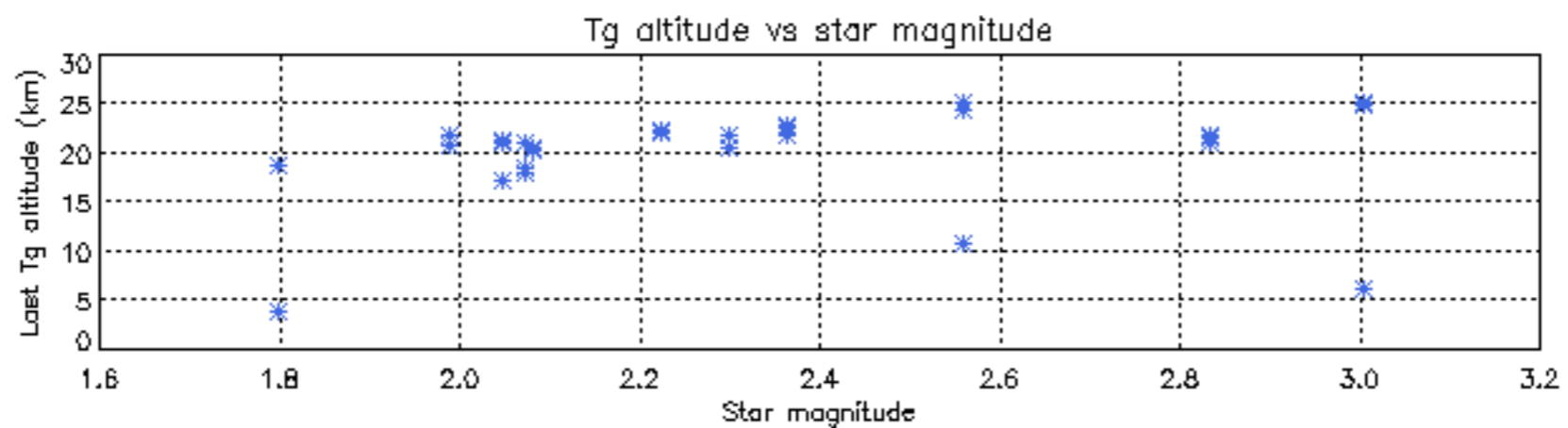
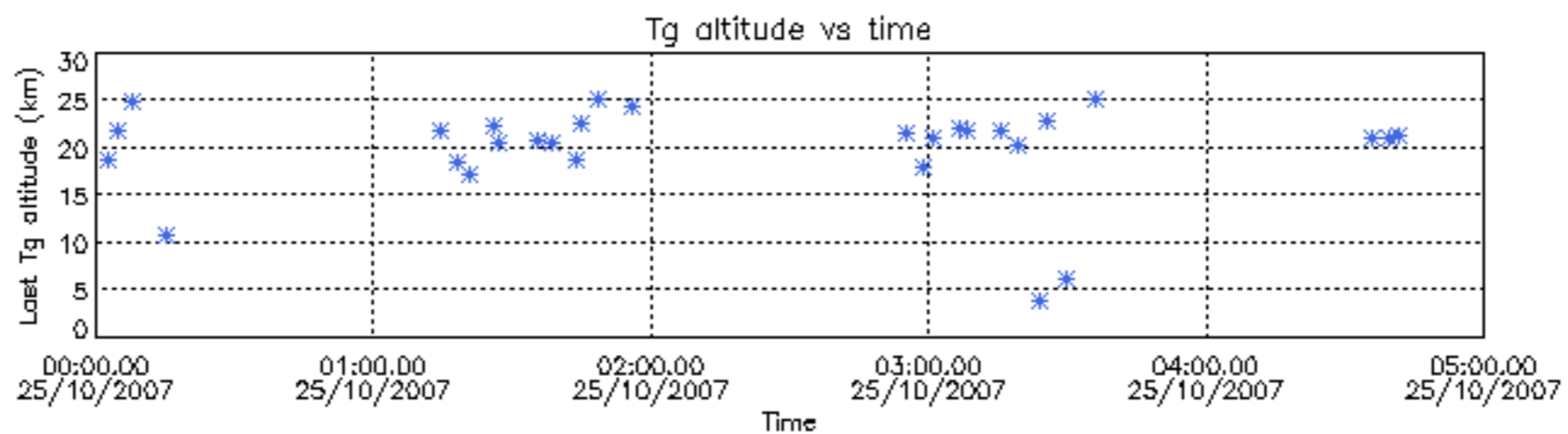
Percentage of saturation errors per profile

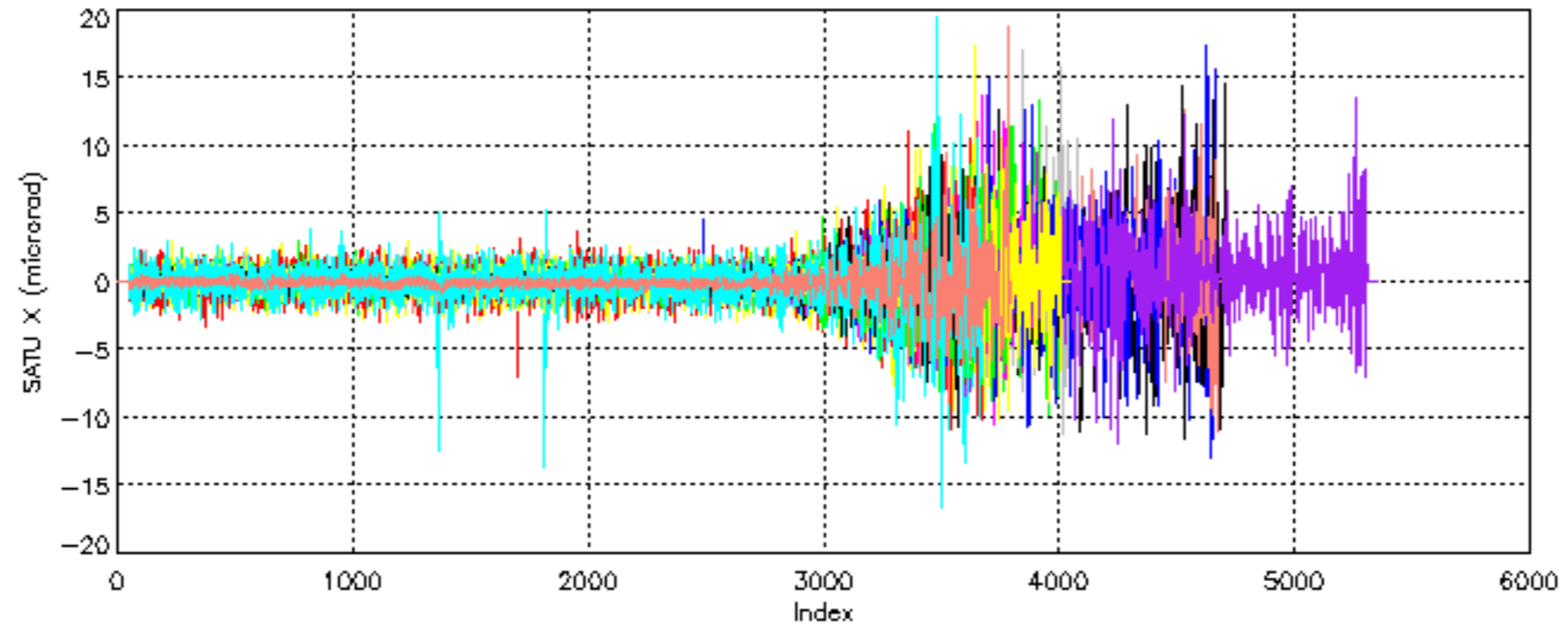


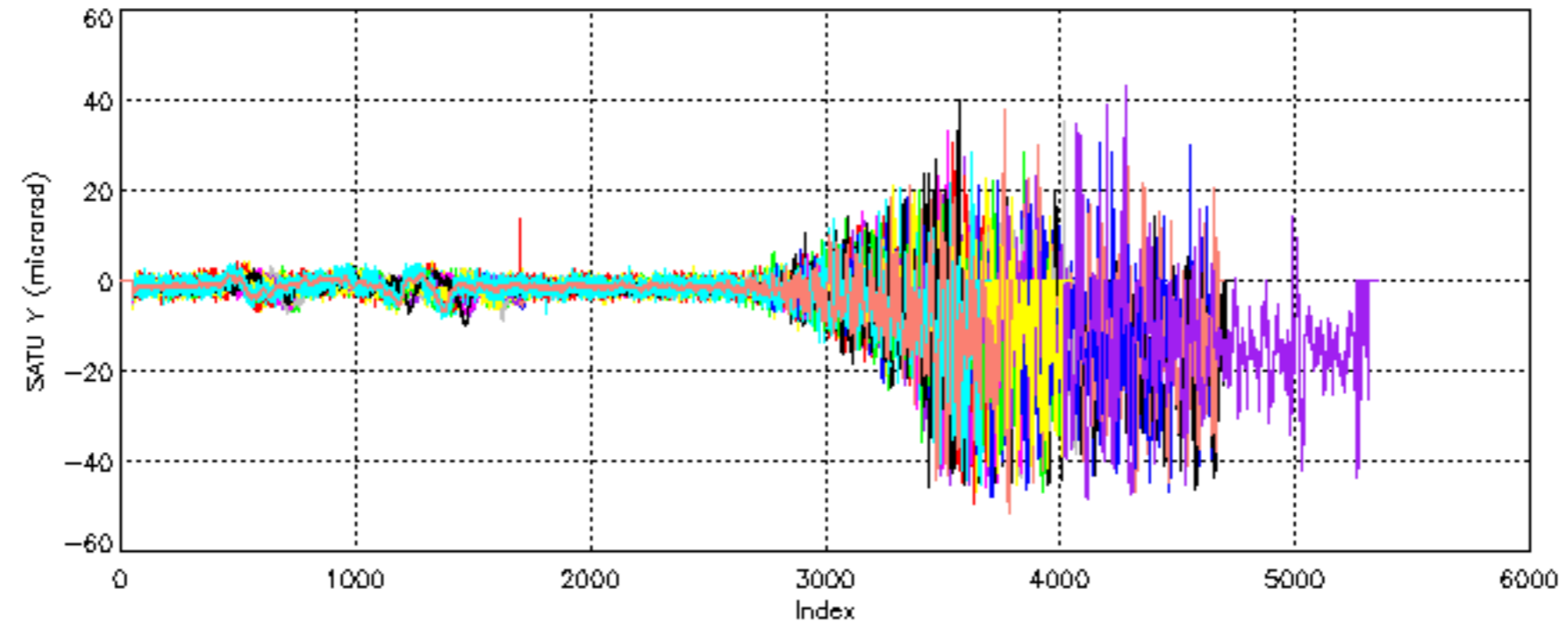
Tangent altitude at which the star is lost

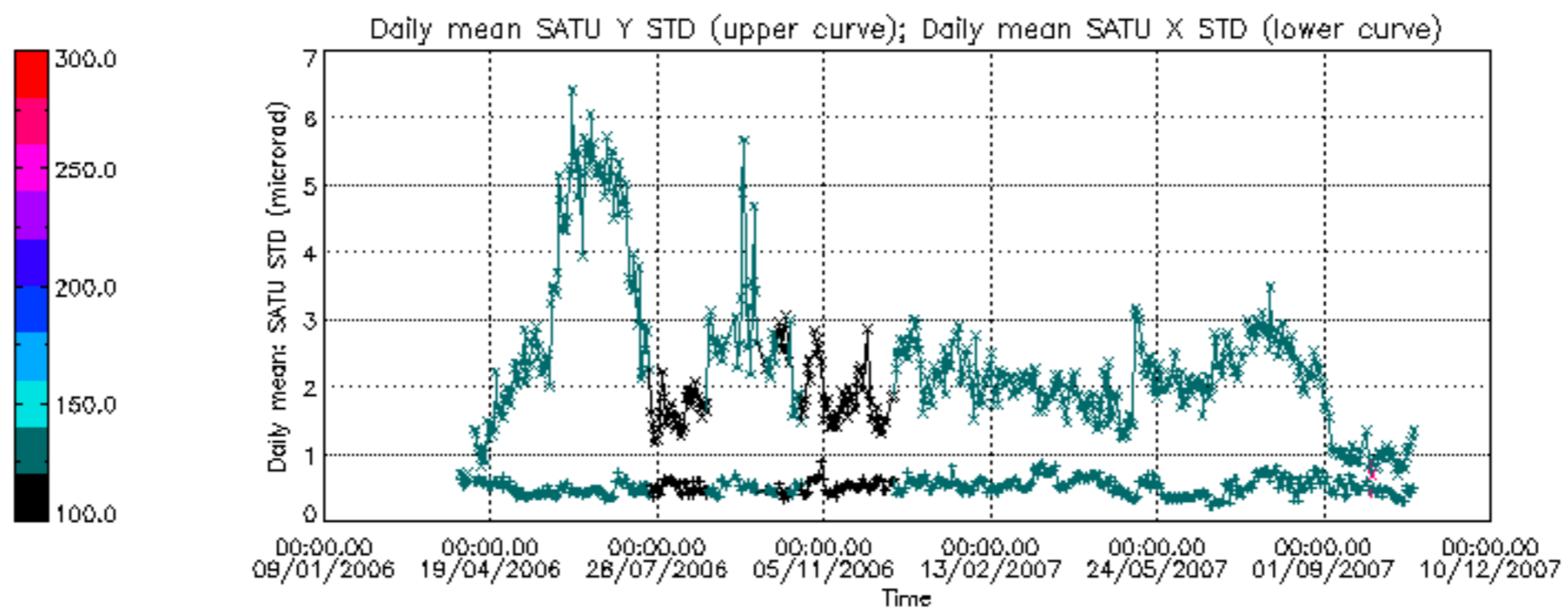


Tangent altitude at which the star is lost










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 8; 106.3; 03-OCT-2007 07:13:10; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29233
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 11; 6014.5; 03-OCT-2007 08:51:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29233
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9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
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 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
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 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300
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 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
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 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
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 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289
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 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
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 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
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 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
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 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
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19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
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4; 2537.4; 20-OCT-2007 15:42:11; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;29481
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6; 2956.0; 20-OCT-2007 15:49:10; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29481
7; 3425.4; 20-OCT-2007 15:56:59; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29481
8; 3920.4; 20-OCT-2007 16:05:14; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29481
9; 4014.5; 20-OCT-2007 16:06:48; Bright; 40.5; 82; 48Bet UMA ; 2.37; 10600;occ; 81; 0;29481
10; 4222.1; 20-OCT-2007 16:10:16; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29481

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 19; 7111.4; 20-OCT-2007 16:58:25; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29481

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 16; 6194.5; 20-OCT-2007 18:23:44; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;29482
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 19; 6194.7; 20-OCT-2007 20:04:21; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29483
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 13; 4222.1; 20-OCT-2007 21:12:04; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29484
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7; 822.4; 20-OCT-2007 21:56:00; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29485
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19; 4222.3; 20-OCT-2007 22:52:40; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;29485
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17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
18; 6448.2; 22-OCT-2007 15:44:08; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29509
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5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510
6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510
7; 3425.1; 22-OCT-2007 16:34:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29510
8; 3626.5; 22-OCT-2007 16:37:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29510
9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

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 20; 6865.3; 22-OCT-2007 19:12:17; Dark ; 10.0; 143; Alp Hyi ; 2.86; 7200;occ; 20; 0;29511

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 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29512
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 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512
 14; 4224.2; 22-OCT-2007 20:08:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29512
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 18; 5992.1; 22-OCT-2007 20:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29512
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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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 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515
 8; 915.3; 23-OCT-2007 00:15:31; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29515
 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515
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 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
 14; 2872.9; 23-OCT-2007 00:48:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29515
 15; 2950.5; 23-OCT-2007 00:49:26; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29515
 16; 3424.9; 23-OCT-2007 00:57:20; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29515
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 18; 3919.5; 23-OCT-2007 01:05:35; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29515
 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515
 20; 4224.4; 23-OCT-2007 01:10:40; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29515
 21; 4642.0; 23-OCT-2007 01:17:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29515

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 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
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 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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 9; 1090.1; 23-OCT-2007 01:59:01; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29516
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 22; 3628.0; 23-OCT-2007 04:21:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29517

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 12; 830.9; 23-OCT-2007 05:15:54; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29518
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17; 6217.4; 26-OCT-2007 08:32:01; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29562
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4; 2869.3; 26-OCT-2007 09:16:49; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29563
5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
7; 3637.3; 26-OCT-2007 09:29:37; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29563
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9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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 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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 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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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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