

GOMOS Daily Report 17-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	22OCT2007 10:30:34
Data source version	GOMOS/5.00
Start time of products	17-10-2007 (17OCT2007 00:00:00)
Stop time of products	18-10-2007 (18OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

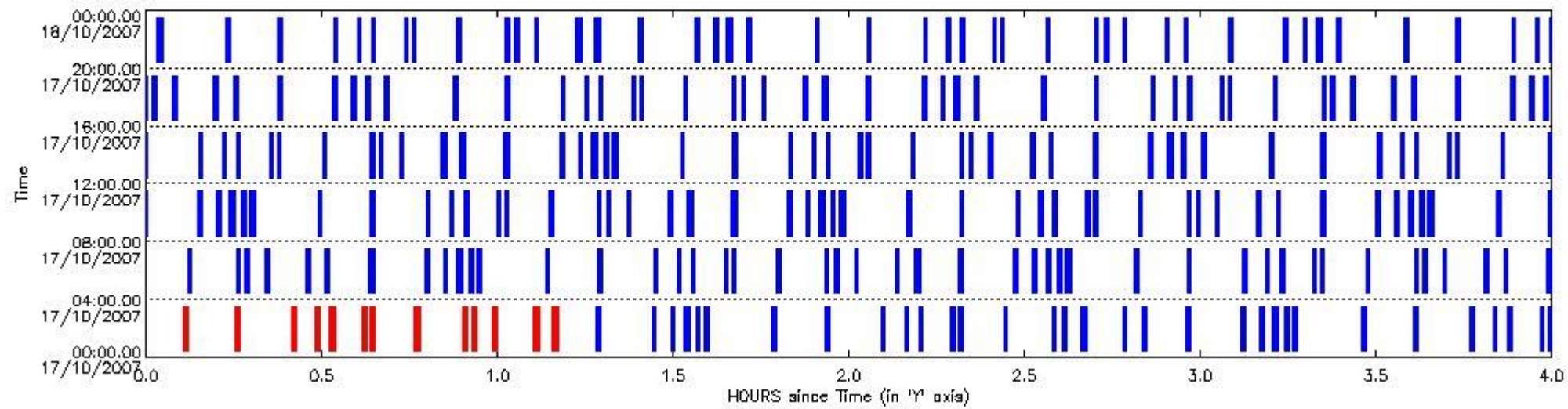
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



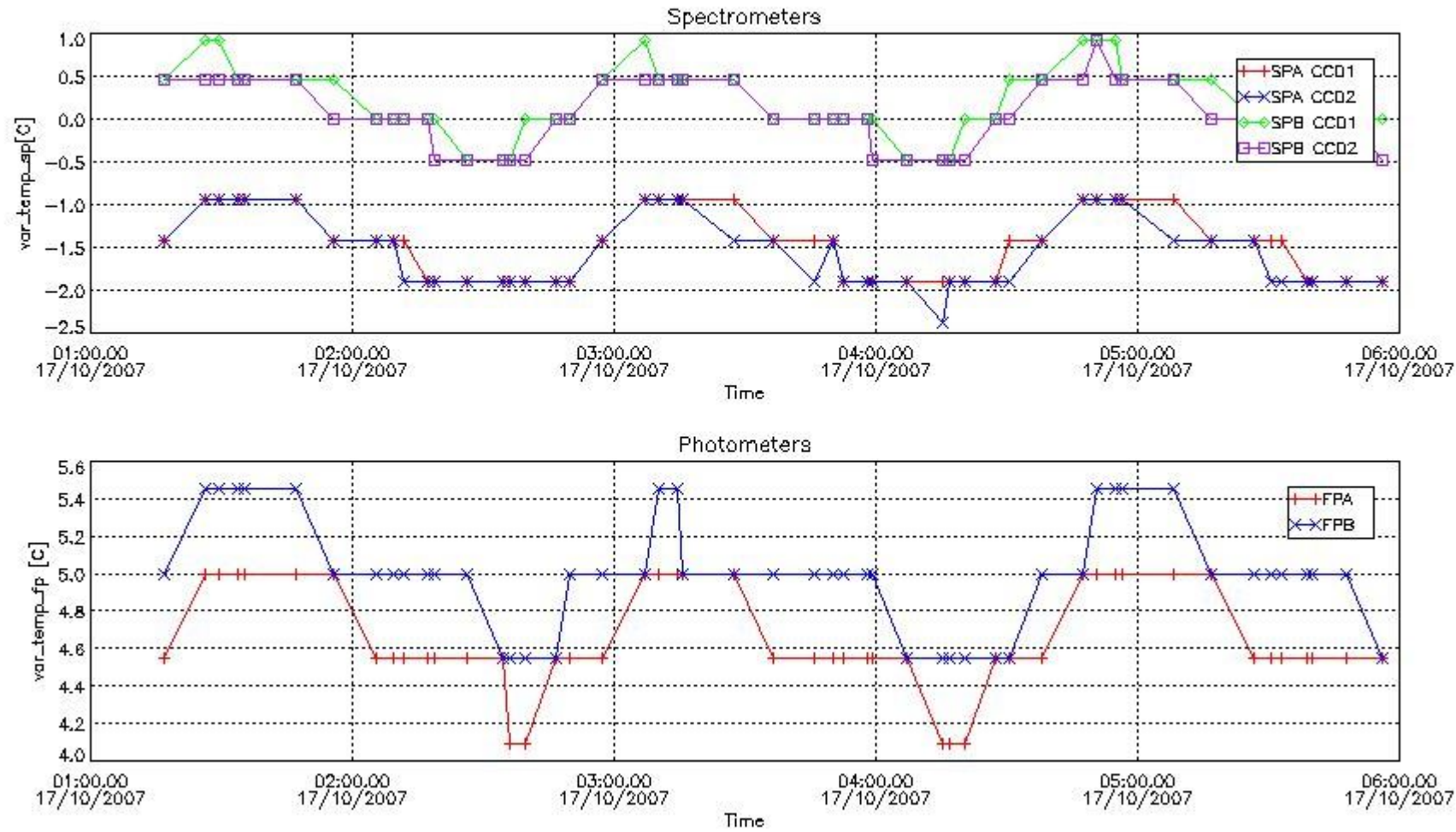
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
17-OCT-2007 00:06:13	The1Eri	157	29429
17-OCT-2007 00:15:11	16BetCet	52	29429
17-OCT-2007 00:24:49	88GamPeg	140	29429
17-OCT-2007 00:28:46	21AlpAnd	58	29429
17-OCT-2007 00:31:14	43BetAnd	53	29429
17-OCT-2007 00:36:47	18AlpCas	68	29429
17-OCT-2007 00:38:08	27GamCas	76	29429
17-OCT-2007 00:45:48	1AlpUMi	49	29429
17-OCT-2007 00:54:03	50AlpUMa	36	29429
17-OCT-2007 00:55:36	48BetUMa	82	29429
17-OCT-2007 00:59:00	52PsiUMa	174	29429
17-OCT-2007 01:06:00	17EpsLeo	166	29429
17-OCT-2007 01:09:17	32AlpLeo	22	29429

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_1PNPDE20071017_011647_000000522062_00317_29429_7724.N1	17-OCT-2007 01:16:47	Dark	51.500	48	30Alp Hya	1.9770	4100.0	103	29429	No
2	GOM_TRA_1PNPDE20071017_012619_000000452062_00317_29429_7725.N1	17-OCT-2007 01:26:19	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29429	No
3	GOM_TRA_1PNPDE20071017_012931_000000432062_00318_29430_7726.N1	17-OCT-2007 01:29:31	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29430	No
4	GOM_TRA_1PNPDE20071017_013349_000000442062_00318_29430_7727.N1	17-OCT-2007 01:33:49	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29430	No
5	GOM_TRA_1PNPDE20071017_013509_000000512062_00318_29430_7728.N1	17-OCT-2007 01:35:09	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	29430	No
6	GOM_TRA_1PNPDE20071017_014652_000000452062_00318_29430_7729.N1	17-OCT-2007 01:46:52	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	29430	No
7	GOM_TRA_1PNPDE20071017_015551_000000462062_00318_29430_7730.N1	17-OCT-2007 01:55:51	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	29430	No
8	GOM_TRA_1PNPDE20071017_020528_000000352062_00318_29430_7731.N1	17-OCT-2007 02:05:28	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29430	No
9	GOM_TRA_1PNPDE20071017_020925_000000362062_00318_29430_7732.N1	17-OCT-2007 02:09:25	Bright	36.000	58	21Alp And	2.0730	11000.	72	29430	No
10	GOM_TRA_1PNPDE20071017_021153_000000412062_00318_29430_7733.N1	17-OCT-2007 02:11:53	Bright	40.500	53	43Bet And	2.0480	3300.0	81	29430	No
11	GOM_TRA_1PNPDE20071017_021726_000000362062_00318_29430_7734.N1	17-OCT-2007 02:17:26	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29430	No
12	GOM_TRA_1PNPDE20071017_021847_000000372062_00318_29430_7735.N1	17-OCT-2007 02:18:47	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29430	No
13	GOM_TRA_1PNPDE20071017_022627_000000352062_00318_29430_7736.N1	17-OCT-2007 02:26:27	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29430	No
14	GOM_TRA_1PNPDE20071017_023442_000000382062_00318_29430_7920.N1	17-OCT-2007 02:34:42	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29430	No
15	GOM_TRA_1PNPDE20071017_023615_000000532062_00318_29430_7921.N1	17-OCT-2007 02:36:15	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	29430	No
16	GOM_TRA_1PNPDE20071017_023939_000000532062_00318_29430_7922.N1	17-OCT-2007 02:39:39	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29430	No
17	GOM_TRA_1PNPDE20071017_024639_000000432062_00318_29430_7923.N1	17-OCT-2007 02:46:39	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	29430	No
18	GOM_TRA_1PNPDE20071017_024956_000000492062_00318_29430_7924.N1	17-OCT-2007 02:49:56	Bright	48.500	22	32Alp Leo	1.3600	15200.	97	29430	No
19	GOM_TRA_1PNPDE20071017_025724_000000532062_00318_29430_7925.N1	17-OCT-2007 02:57:24	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	29430	No
20	GOM_TRA_1PNPDE20071017_030655_000000402062_00318_29430_7926.N1	17-OCT-2007 03:06:55	Dark	39.500	65	Lam Vel	2.2040	4400.0	79	29430	No
21	GOM_TRA_1PNPDE20071017_031008_000000432062_00319_29431_7927.N1	17-OCT-2007 03:10:08	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29431	No
22	GOM_TRA_1PNPDE20071017_031425_000000472062_00319_29431_7928.N1	17-OCT-2007 03:14:25	Dark	46.500	161	Tau Pup	2.9310	4500.0	93	29431	No
23	GOM_TRA_1PNPDE20071017_031546_000000472062_00319_29431_7929.N1	17-OCT-2007 03:15:46	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	29431	No
24	GOM_TRA_1PNPDE20071017_032729_000000462062_00319_29431_7930.N1	17-OCT-2007 03:27:29	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	29431	No
25	GOM_TRA_1PNPDE20071017_033627_000000432062_00319_29431_7931.N1	17-OCT-2007 03:36:27	Straylight	42.500	52	16Bet Cet	2.0370	4500.0	85	29431	No
26	GOM_TRA_1PNPDE20071017_034604_000000362062_00319_29431_7932.N1	17-OCT-2007 03:46:04	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	29431	No
27	GOM_TRA_1PNPDE20071017_035001_000000372062_00319_29431_7933.N1	17-OCT-2007 03:50:01	Bright	36.500	58	21Alp And	2.0730	11000.	73	29431	No
28	GOM_TRA_1PNPDE20071017_035228_000000432062_00319_29431_7934.N1	17-OCT-2007 03:52:28	Bright	42.500	53	43Bet And	2.0480	3300.0	85	29431	No
29	GOM_TRA_1PNPDE20071017_035802_000000372062_00319_29431_7935.N1	17-OCT-2007 03:58:02	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29431	No
30	GOM_TRA_1PNPDE20071017_035923_000000362062_00319_29431_7936.N1	17-OCT-2007 03:59:23	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29431	No
31	GOM_TRA_1PNPDE20071017_040704_000000332062_00319_29431_7937.N1	17-OCT-2007 04:07:04	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29431	No
32	GOM_TRA_1PNPDE20071017_041518_000000382062_00319_29431_8082.N1	17-OCT-2007 04:15:18	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	29431	No
33	GOM_TRA_1PNPDE20071017_041651_000000372062_00319_29431_8083.N1	17-OCT-2007 04:16:51	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29431	No
34	GOM_TRA_1PNPDE20071017_042015_000000532062_00319_29431_8084.N1	17-OCT-2007 04:20:15	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29431	No
35	GOM_TRA_1PNPDE20071017_042715_000000422062_00319_29431_8085.N1	17-OCT-2007 04:27:15	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	29431	No
36	GOM_TRA_1PNPDE20071017_043033_000000422062_00319_29431_8086.N1	17-OCT-2007 04:30:33	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	29431	No
37	GOM_TRA_1PNPDE20071017_043801_000000572062_00319_29431_8087.N1	17-OCT-2007 04:38:01	Dark	57.000	48	30Alp Hya	1.9770	4100.0	114	29431	No
38	GOM_TRA_1PNPDE20071017_044732_000000452062_00319_29431_8088.N1	17-OCT-2007 04:47:32	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	29431	No
39	GOM_TRA_1PNPDE20071017_045044_000000432062_00320_29432_8089.N1	17-OCT-2007 04:50:44	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	29432	No
40	GOM_TRA_1PNPDE20071017_045502_000000452062_00320_29432_8090.N1	17-OCT-2007 04:55:02	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	29432	No
41	GOM_TRA_1PNPDE20071017_045622_000000502062_00320_29432_8091.N1	17-OCT-2007 04:56:22	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29432	No
42	GOM_TRA_1PNPDE20071017_050805_000000452062_00320_29432_8092.N1	17-OCT-2007 05:08:05	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	29432	No
43	GOM_TRA_1PNPDE20071017_051703_000000462062_00320_29432_8093.N1	17-OCT-2007 05:17:03	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	29432	No
44	GOM_TRA_1PNPDE20071017_052640_000000372062_00320_29432_8094.N1	17-OCT-2007 05:26:40	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	29432	No
45	GOM_TRA_1PNPDE20071017_053037_000000362062_00320_29432_8095.N1	17-OCT-2007 05:30:37	Bright	35.500	58	21Alp And	2.0730	11000.	71	29432	No
46	GOM_TRA_1PNPDE20071017_053304_000000392062_00320_29432_8096.N1	17-OCT-2007 05:33:04	Bright	39.000	53	43Bet And	2.0480	3300.0	78	29432	No
47	GOM_TRA_1PNPDE20071017_053838_000000382062_00320_29432_8097.N1	17-OCT-2007 05:38:38	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	29432	No
48	GOM_TRA_1PNPDE20071017_053959_000000372062_00320_29432_8098.N1	17-OCT-2007 05:39:59	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29432	No
49	GOM_TRA_1PNPDE20071017_054739_000000372062_00320_29432_8099.N1	17-OCT-2007 05:47:39	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29432	No
50	GOM_TRA_1PNPDE20071017_055554_000000392062_00320_29432_8250.N1	17-OCT-2007 05:55:54	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	29432	No

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



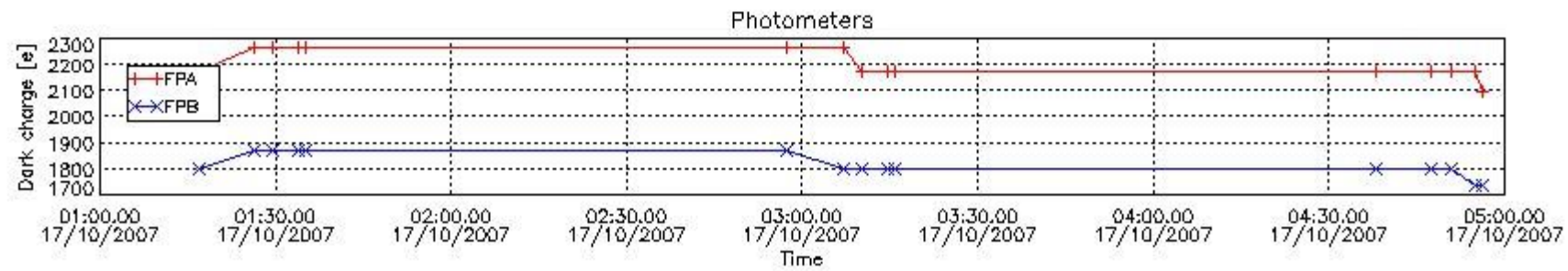
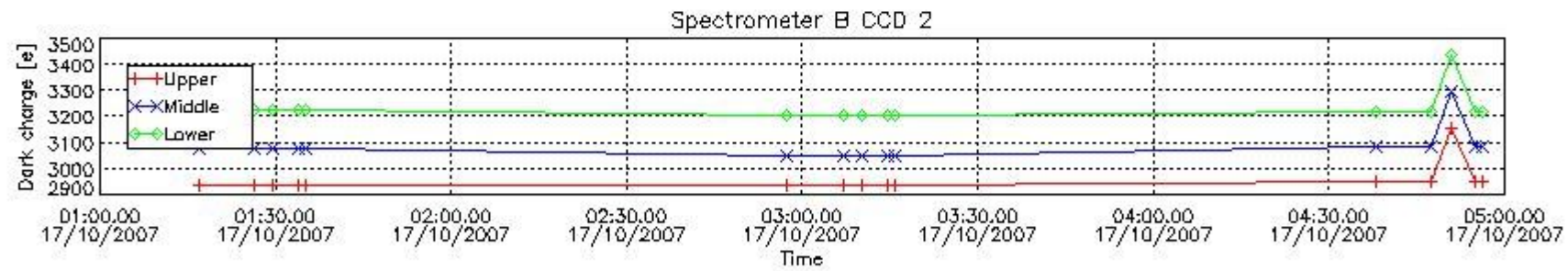
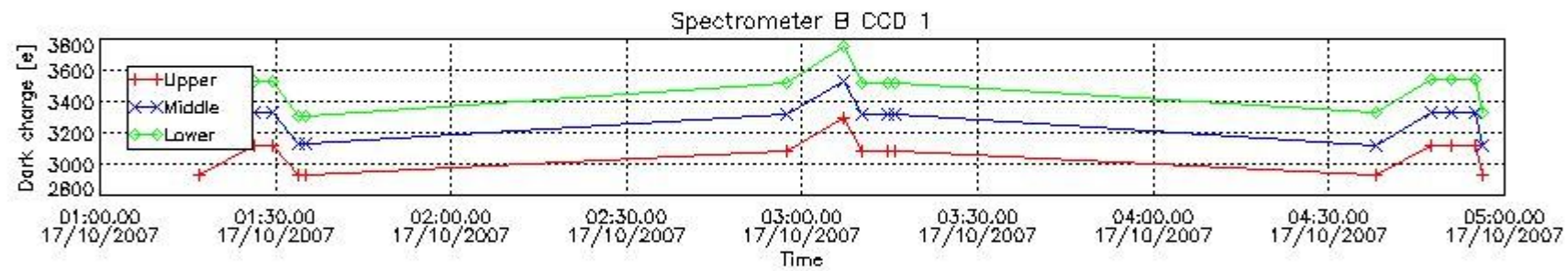
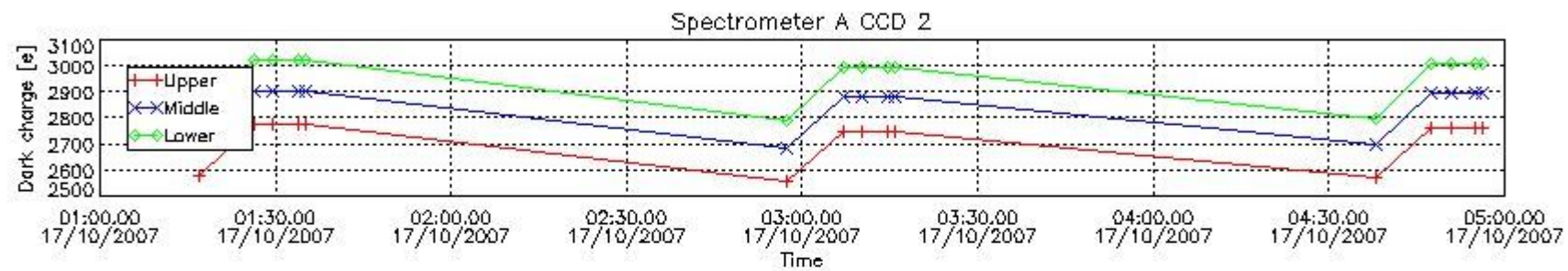
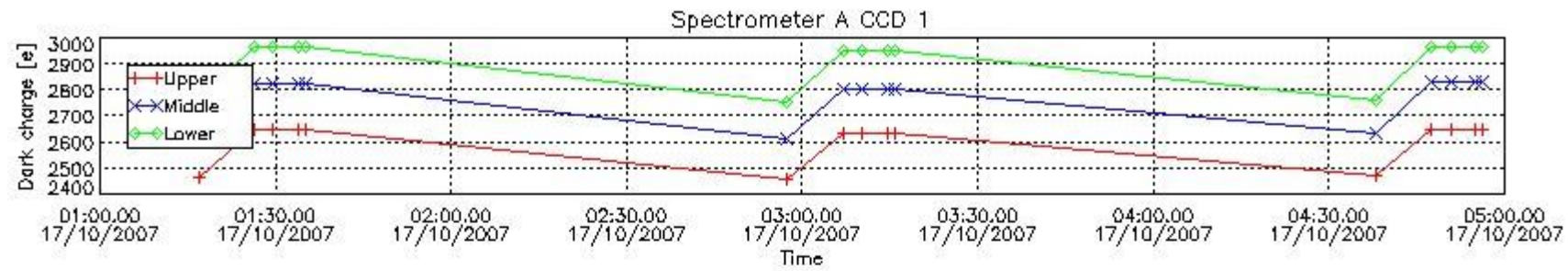
4. Overview of dark signal processing per product

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



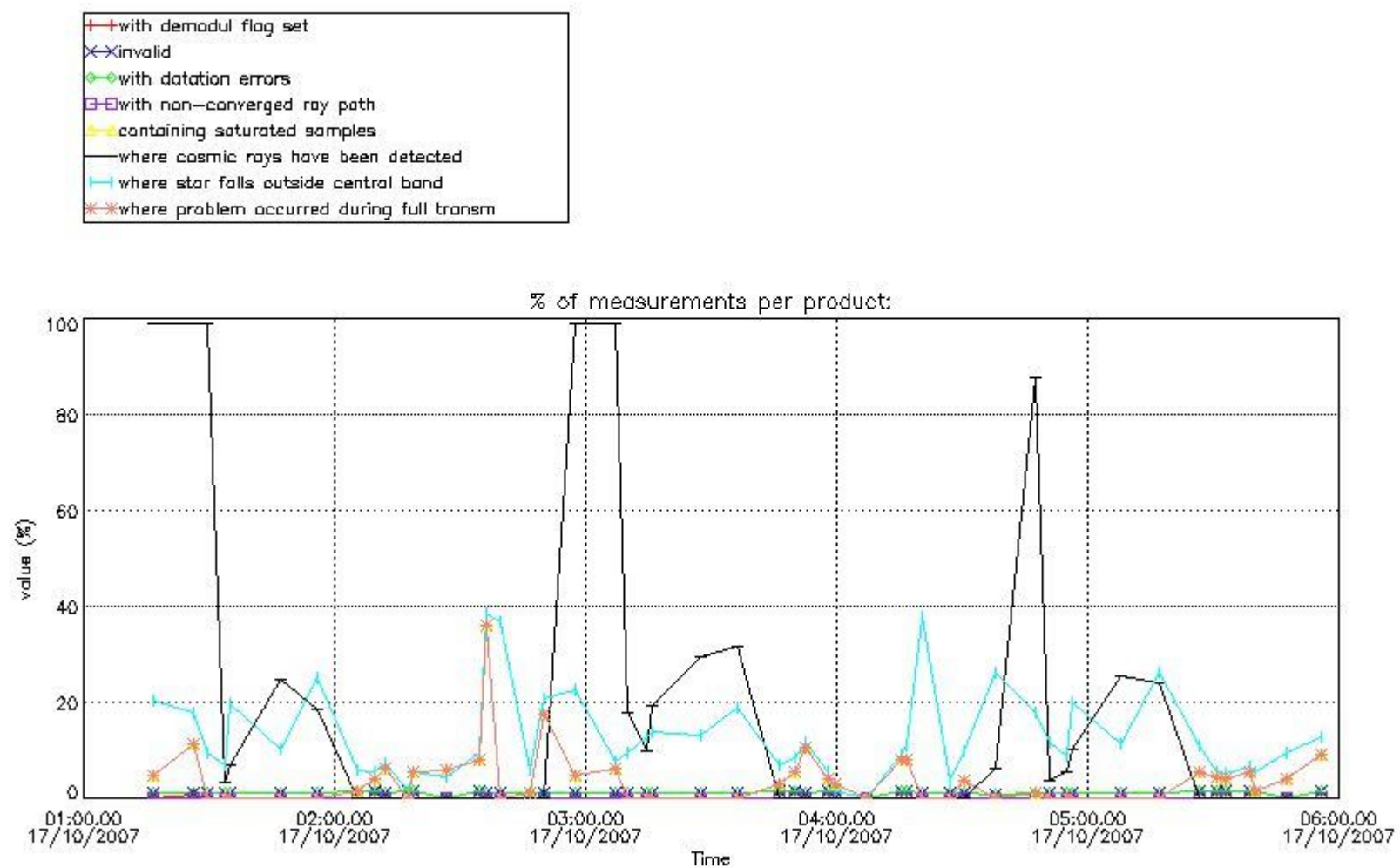
5. Demodulation flag and quality information monitoring

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.

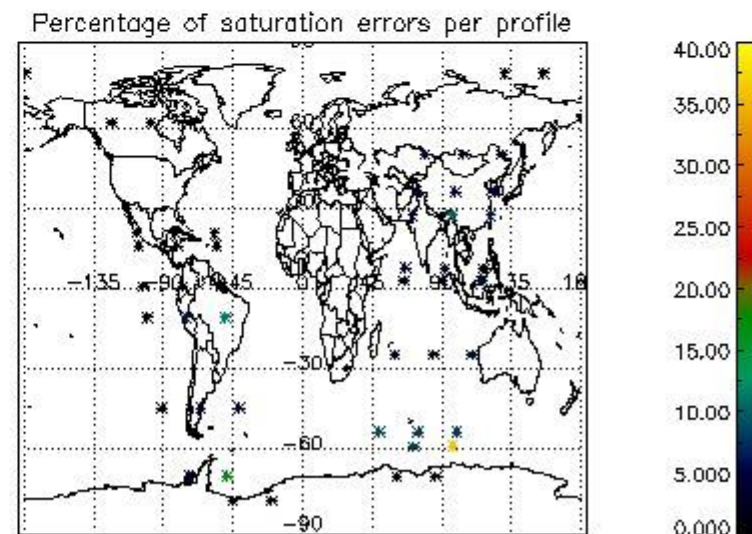
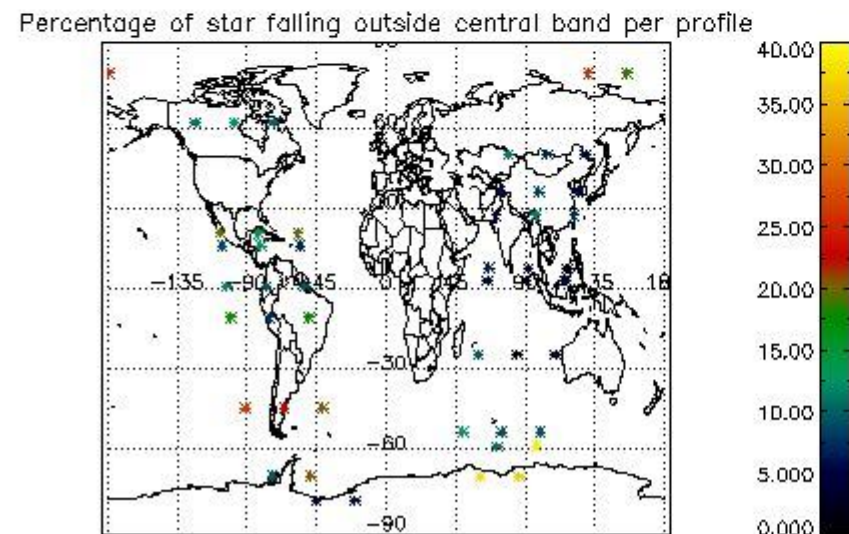
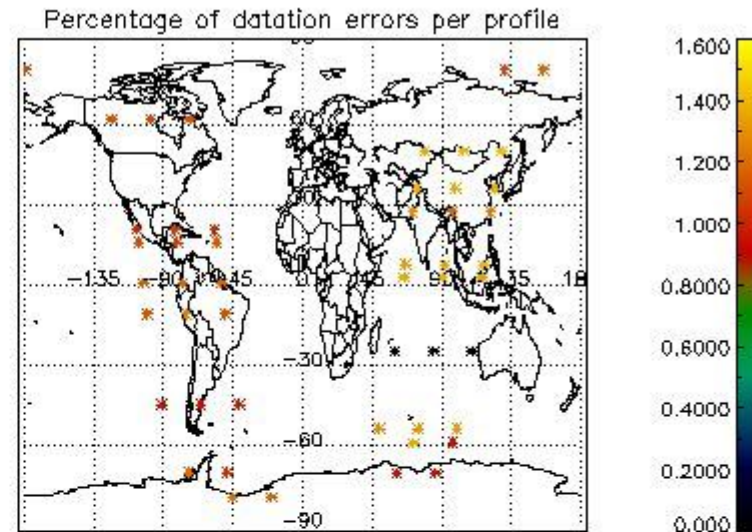
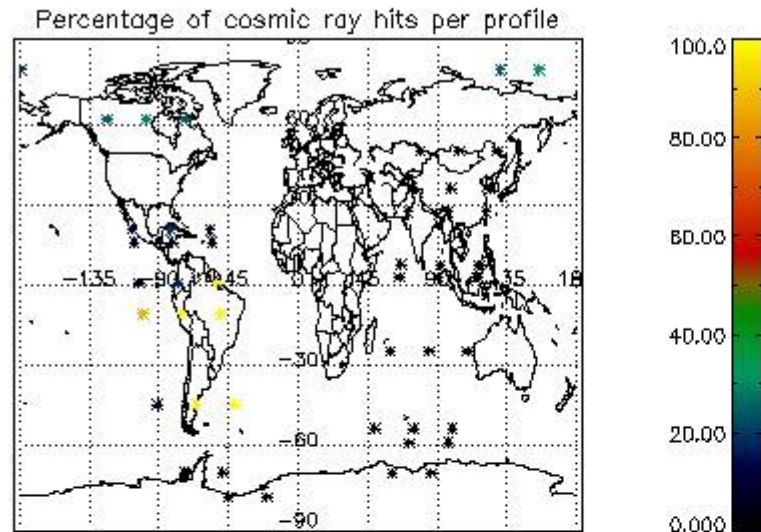
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



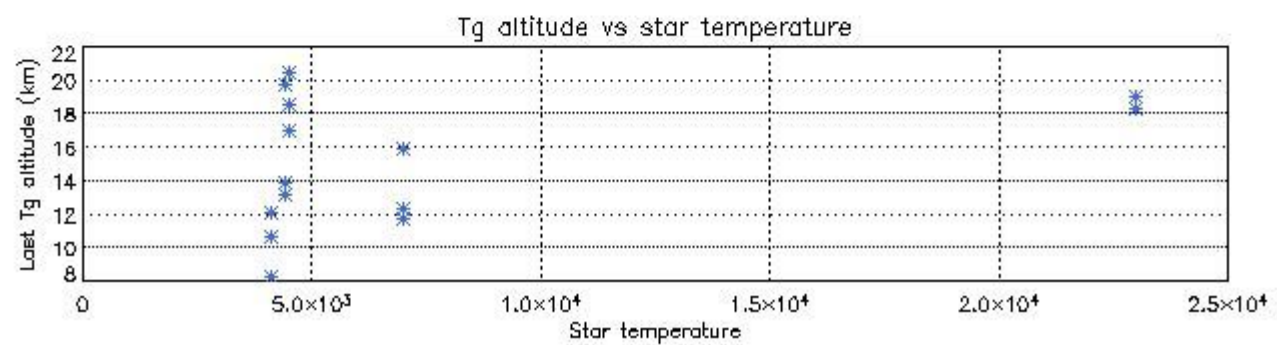
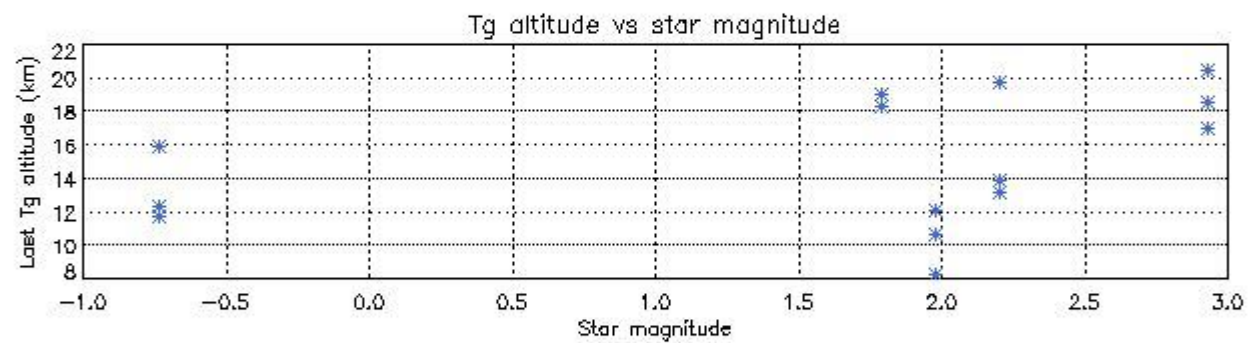
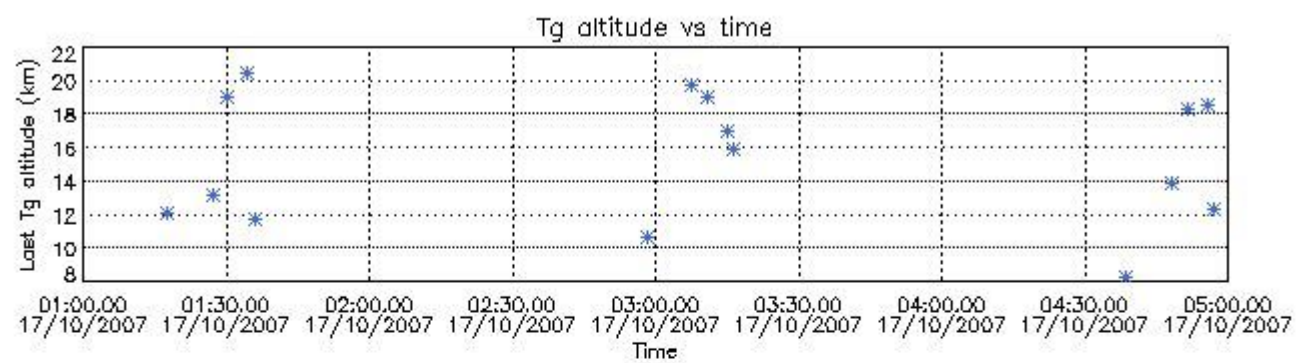
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.319	18.601	NaN
St. deviation:	3.8400	5.8421	NaN
Maximum:	20.411	27.059	NaN
Minimum:	8.1931	3.6560	NaN
Number of data:	15.000	29.000	NaN

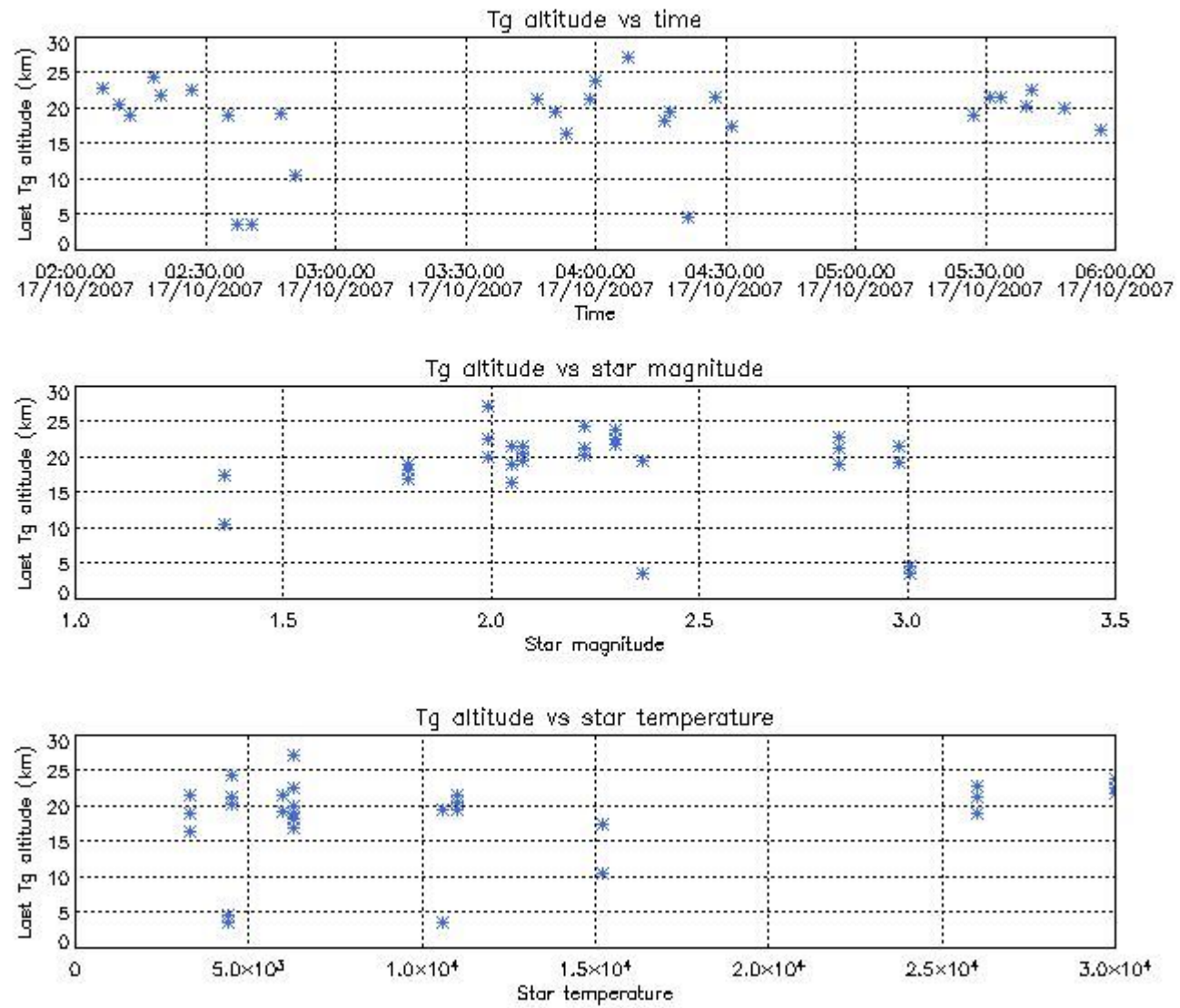
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

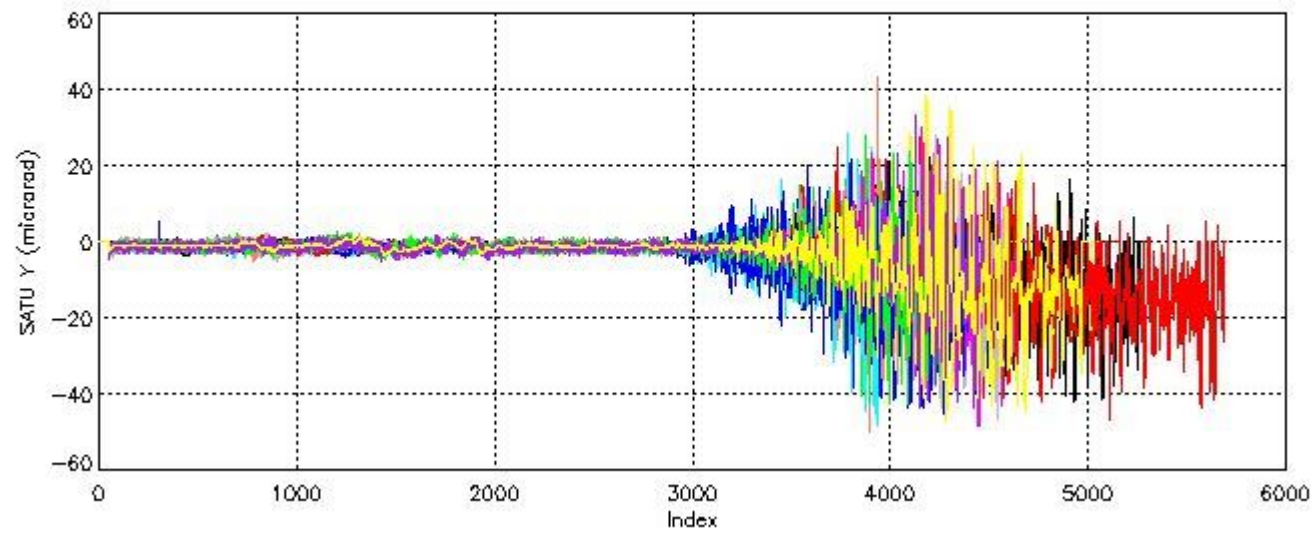
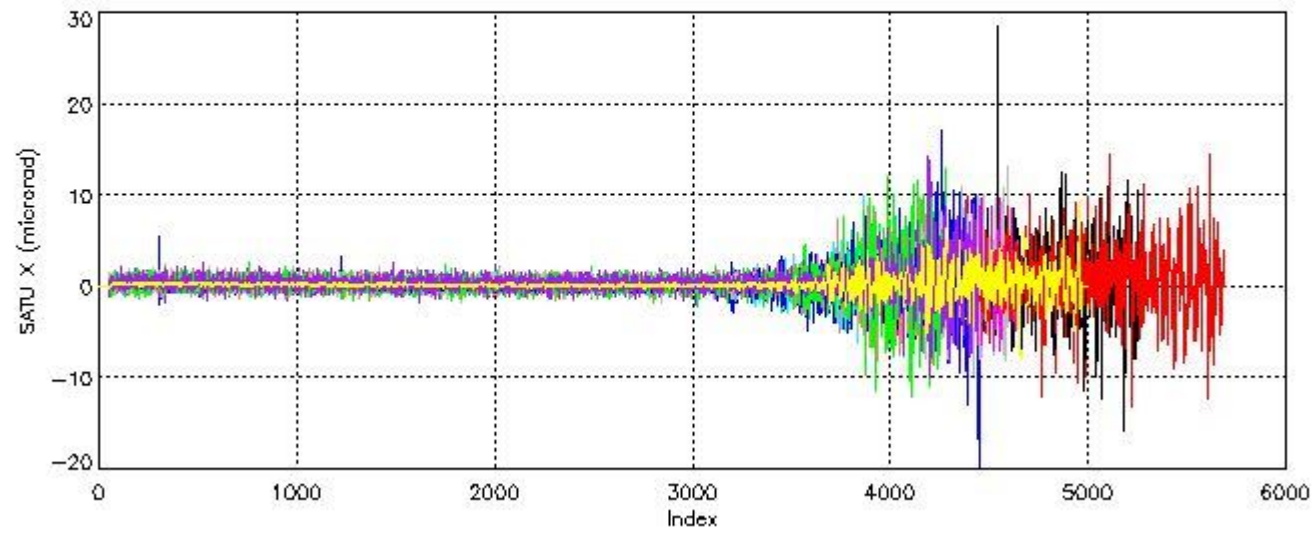


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21828	-1.2101	0.11824	-1.3639
St. deviation:	0.34228	0.80970	0.71048	1.3338
Maximum:	5.4000	5.4000	5.3000	5.8000
Minimum:	-2.0000	-5.2000	-6.9000	-9.2000

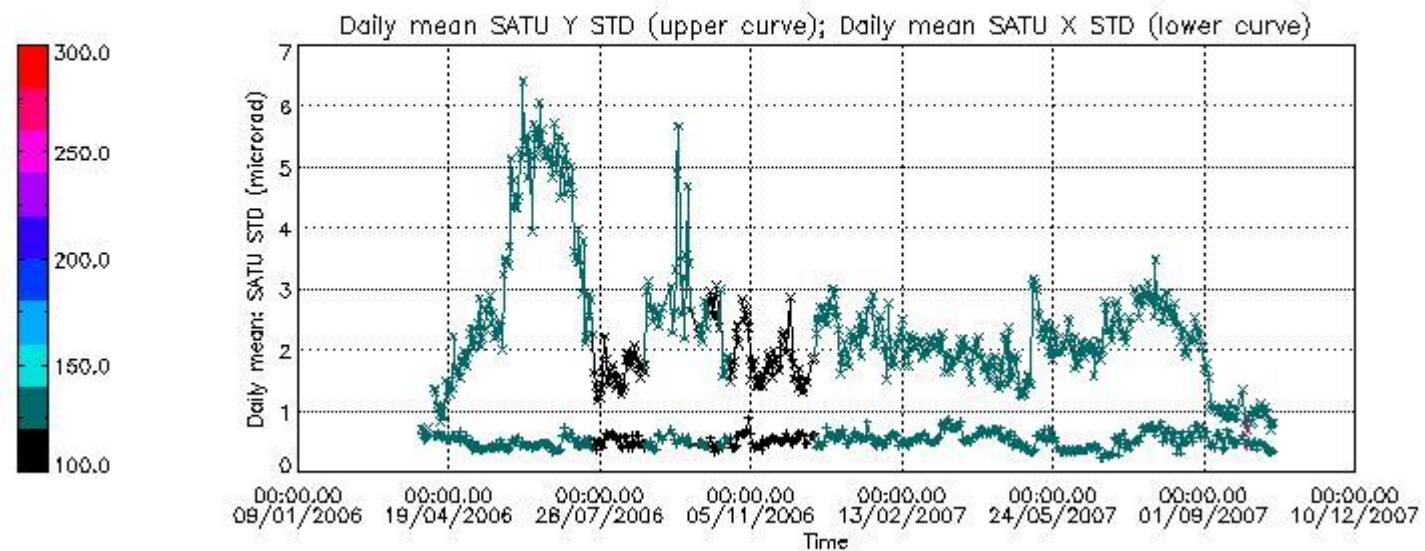
Number of data:	15300.	15300.	24700.	24700.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

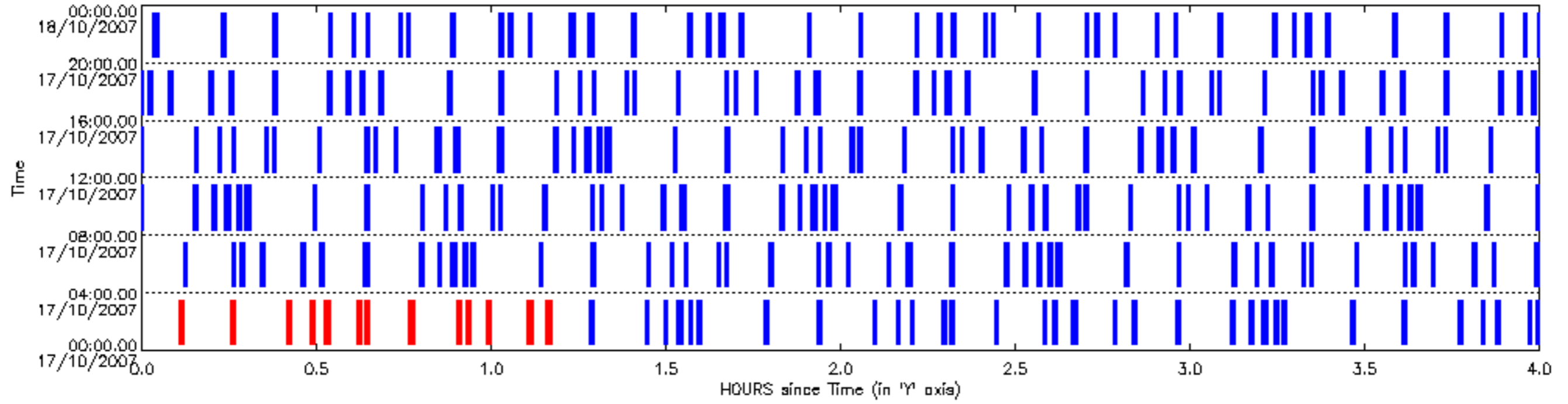
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

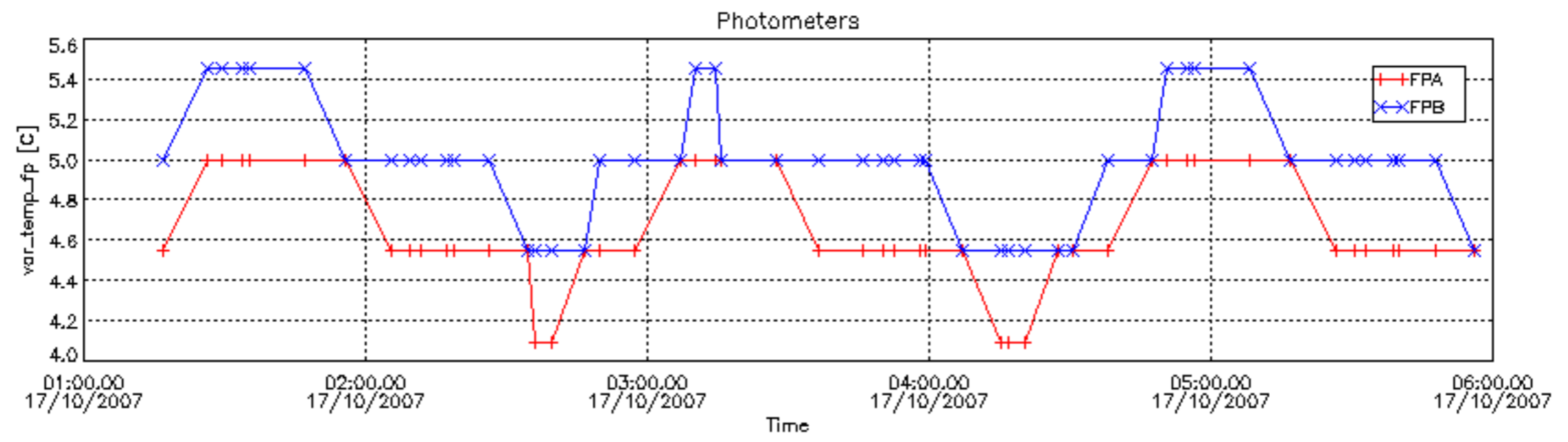
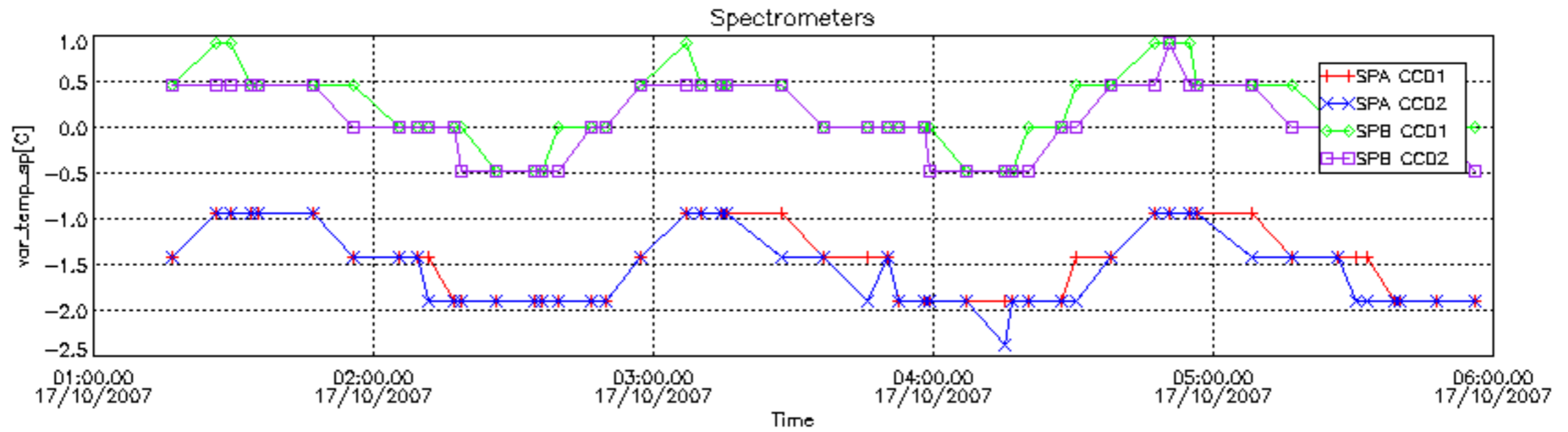


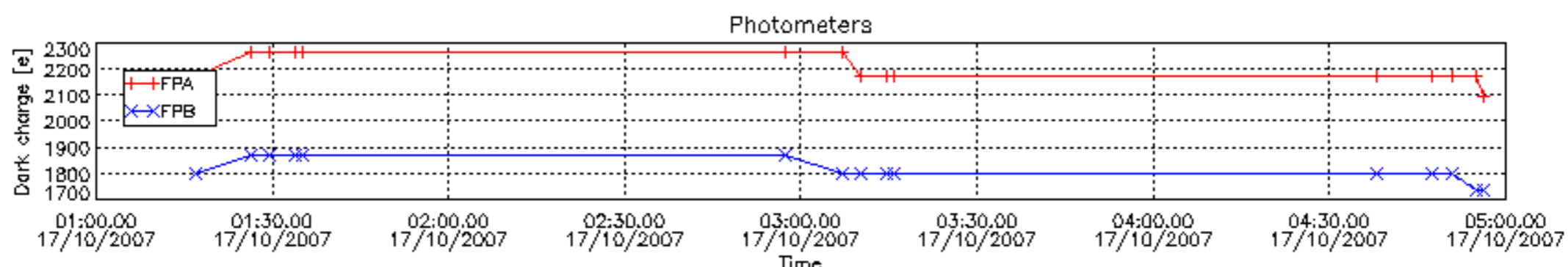
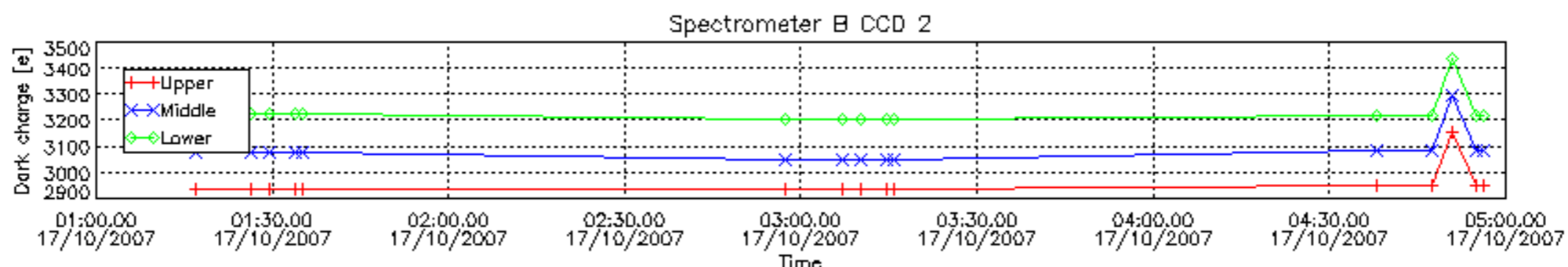
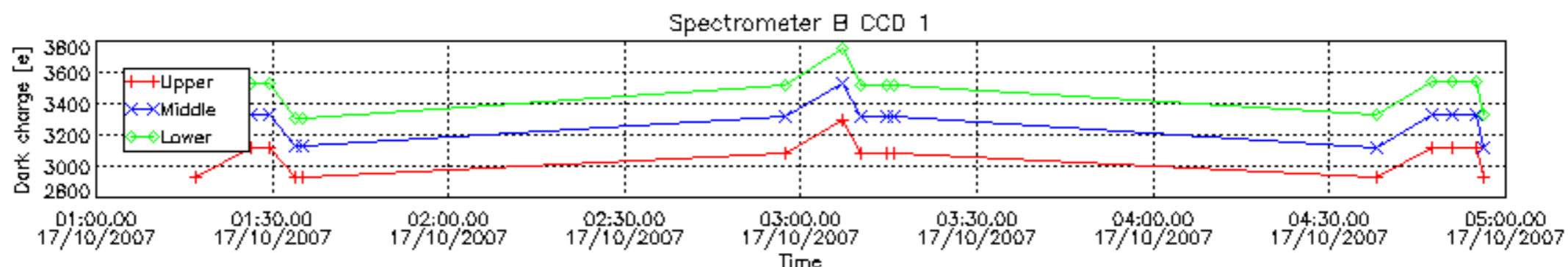
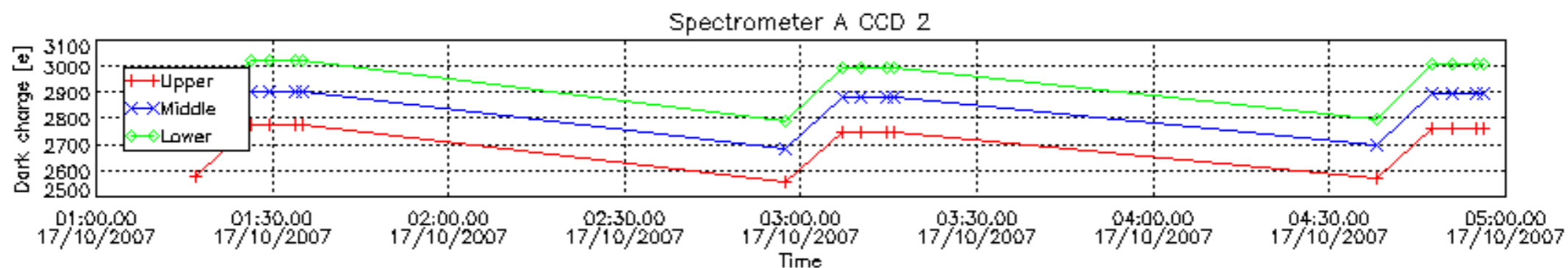
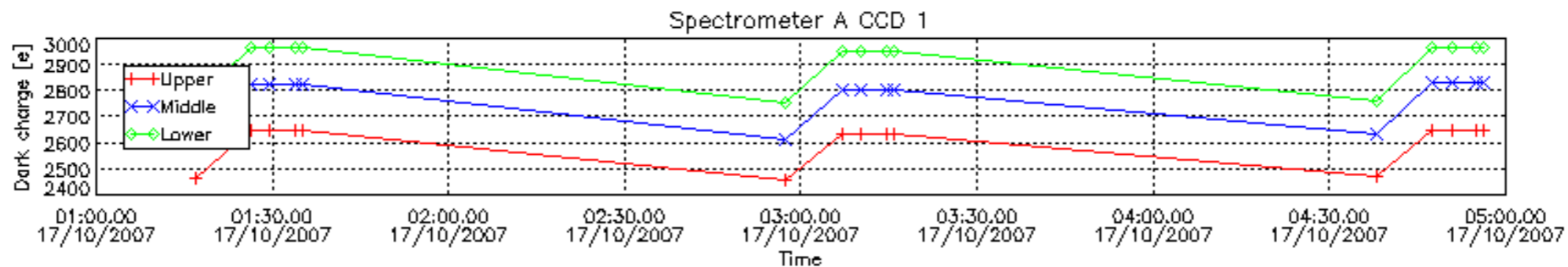
8. Auxiliary Data Files used for the production reported in section 2.4

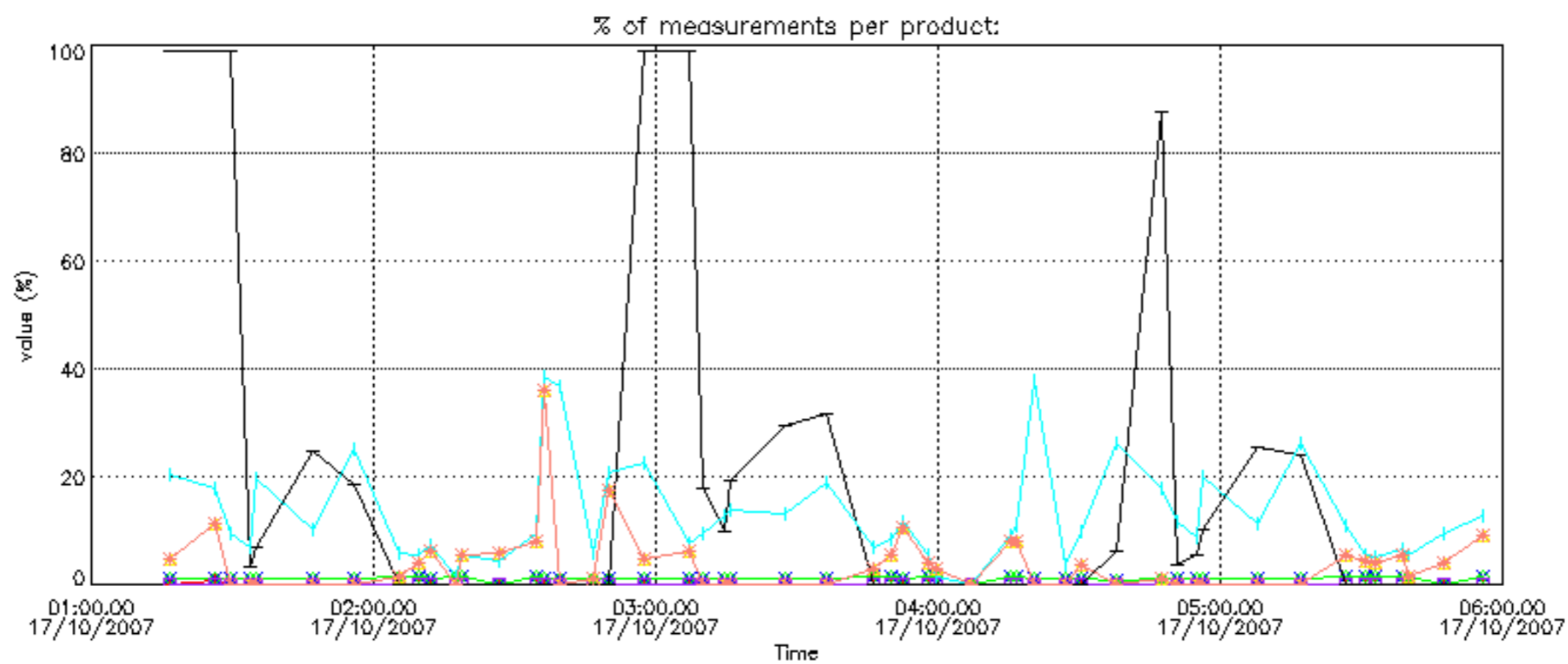
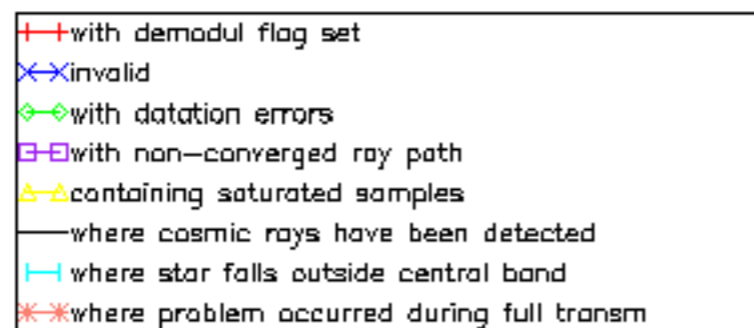
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-OCT-2007 01:16:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000	1	17-OCT-2007 01:16:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-OCT-2007 01:16:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-OCT-2007 01:16:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-OCT-2007 01:16:47
ECMWF_FILE	AUX_ECF_AXNECM20071016_060112_20071016_210000_20071017_090000	1	17-OCT-2007 01:16:47
ECMWF_FILE	AUX_ECF_AXNECM20071016_180113_20071017_030000_20071017_150000	32	17-OCT-2007 04:15:18
OPTIONAL_ECMWF_FILE	MISSING	1	17-OCT-2007 01:16:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071016_215530_000054192062_00315_29427_4370.N1	1	17-OCT-2007 01:16:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071017_011205_000041442062_00317_29429_4371.N1	14	17-OCT-2007 02:34:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071017_022629_000057382062_00318_29430_4372.N1	32	17-OCT-2007 04:15:18
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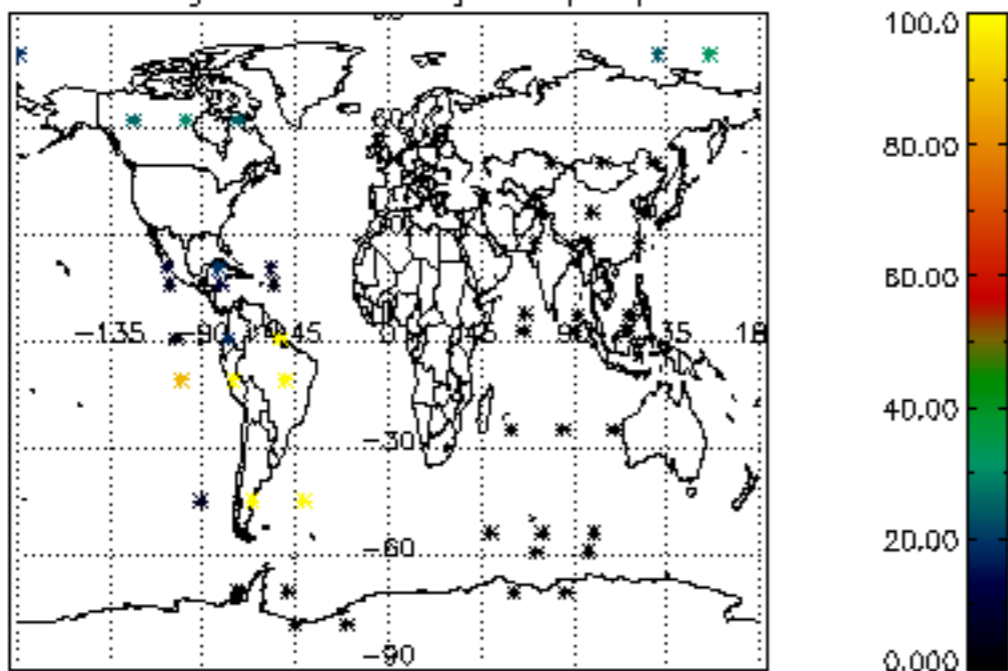




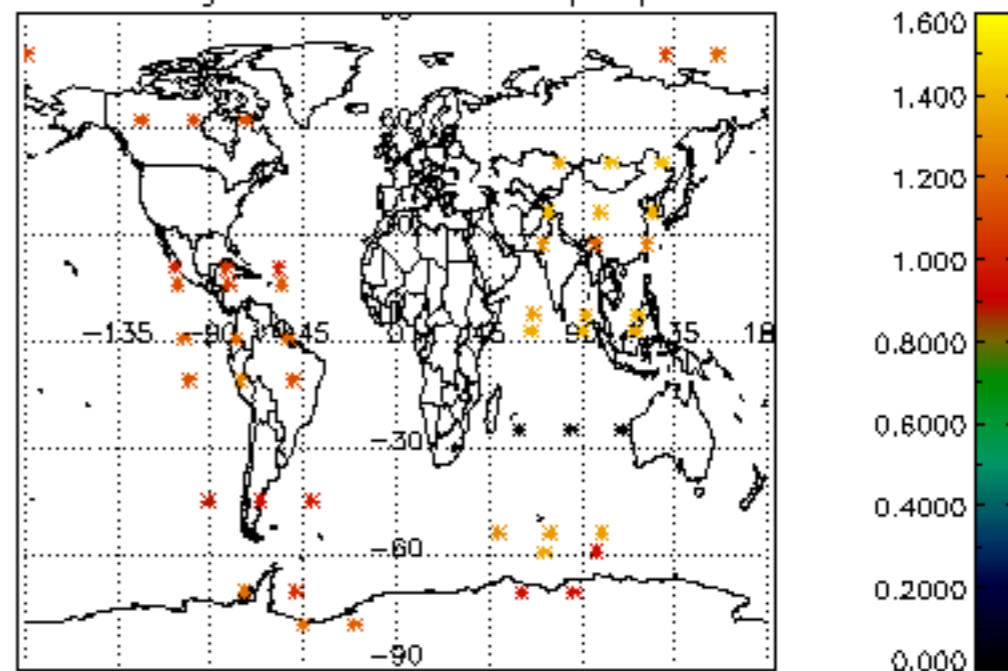




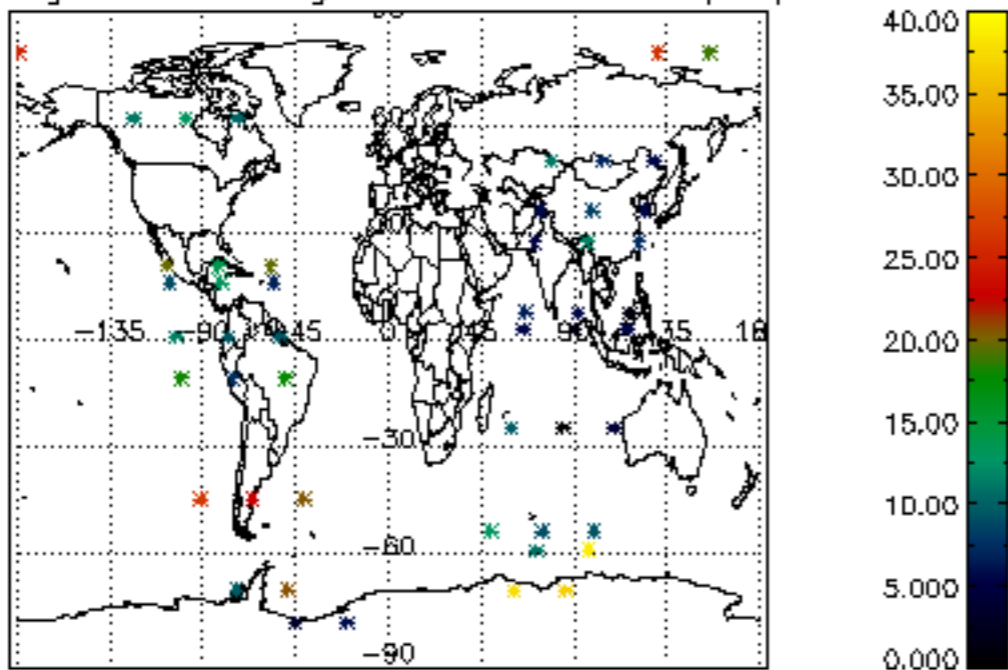
Percentage of cosmic ray hits per profile



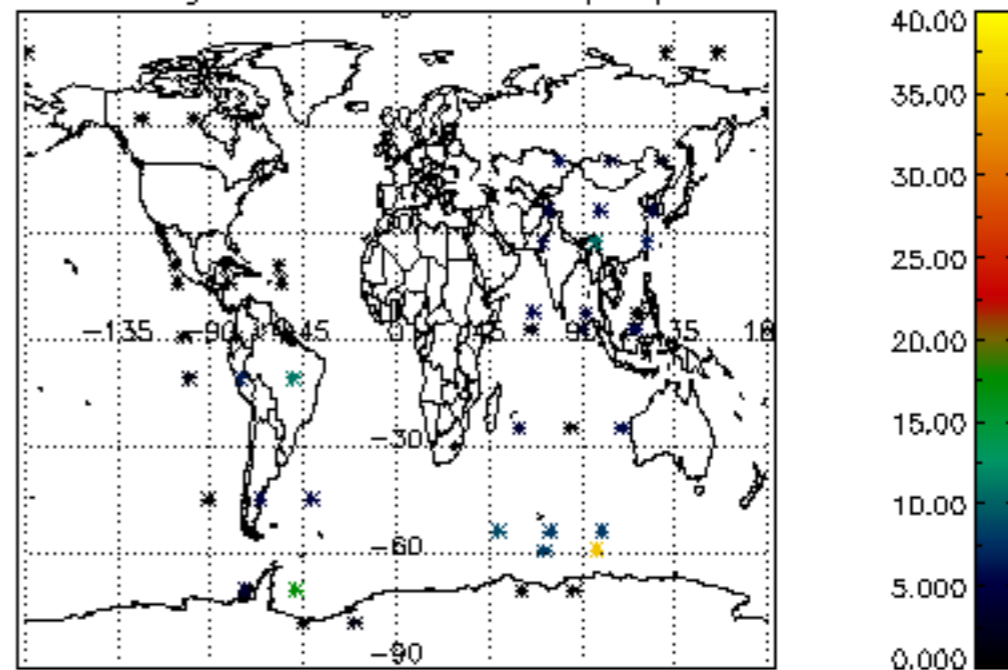
Percentage of datation errors per profile



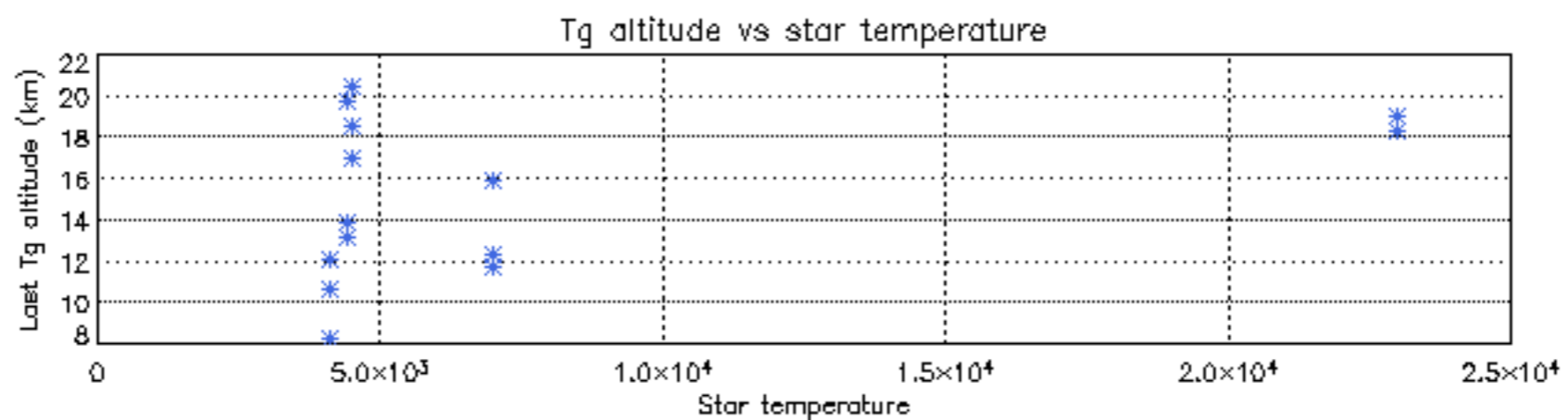
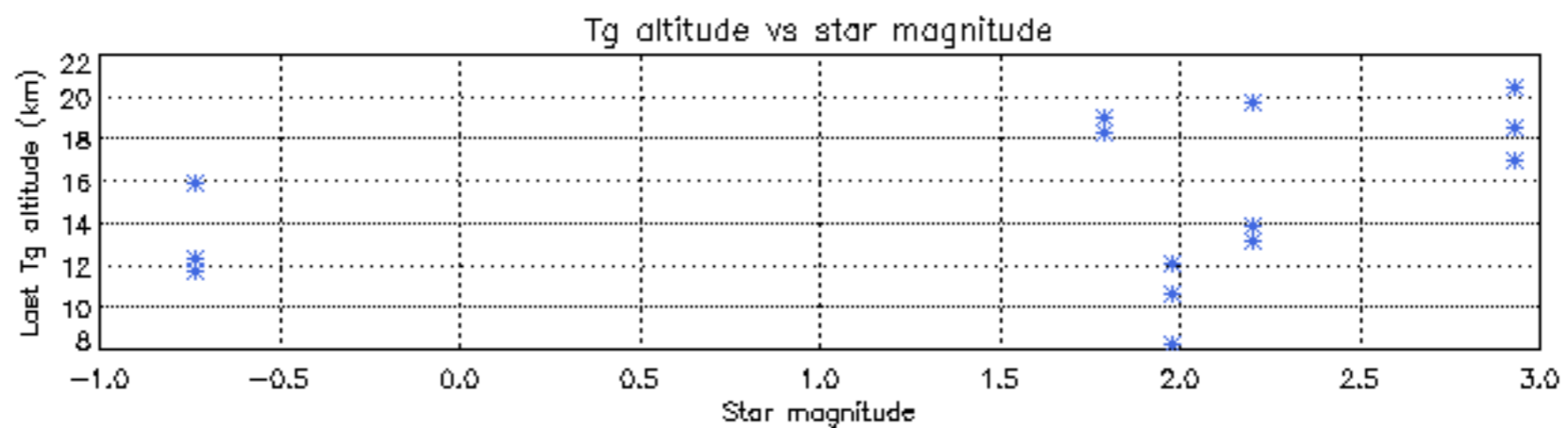
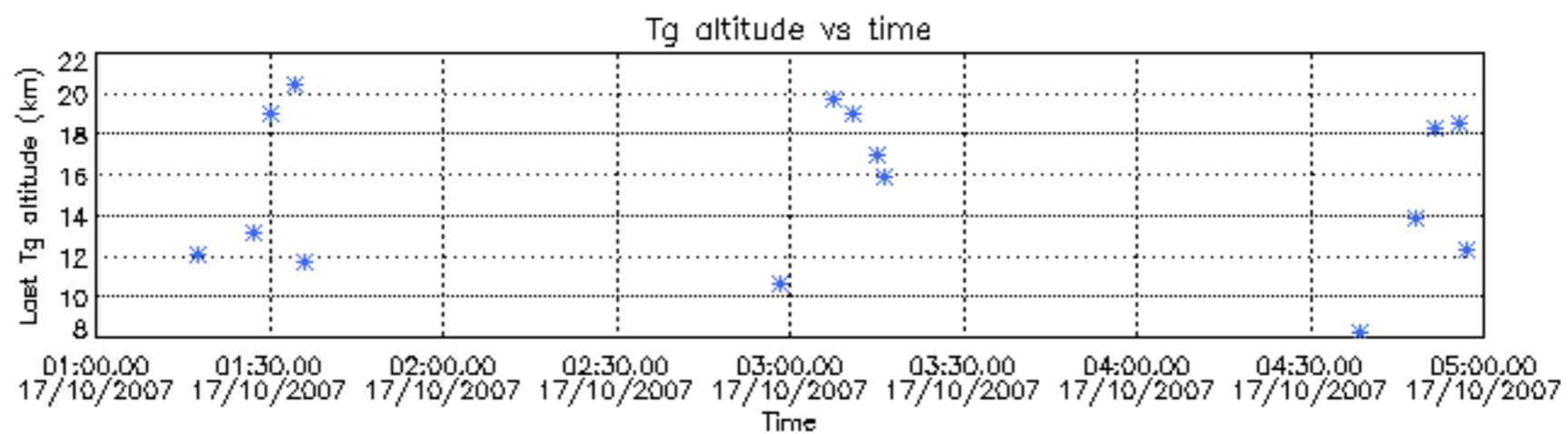
Percentage of star falling outside central band per profile



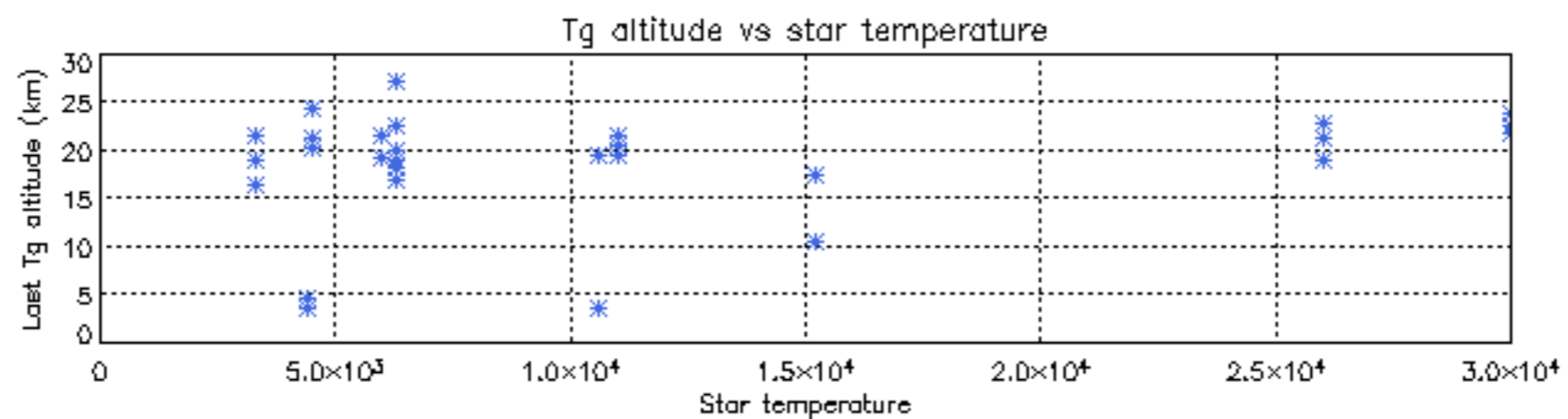
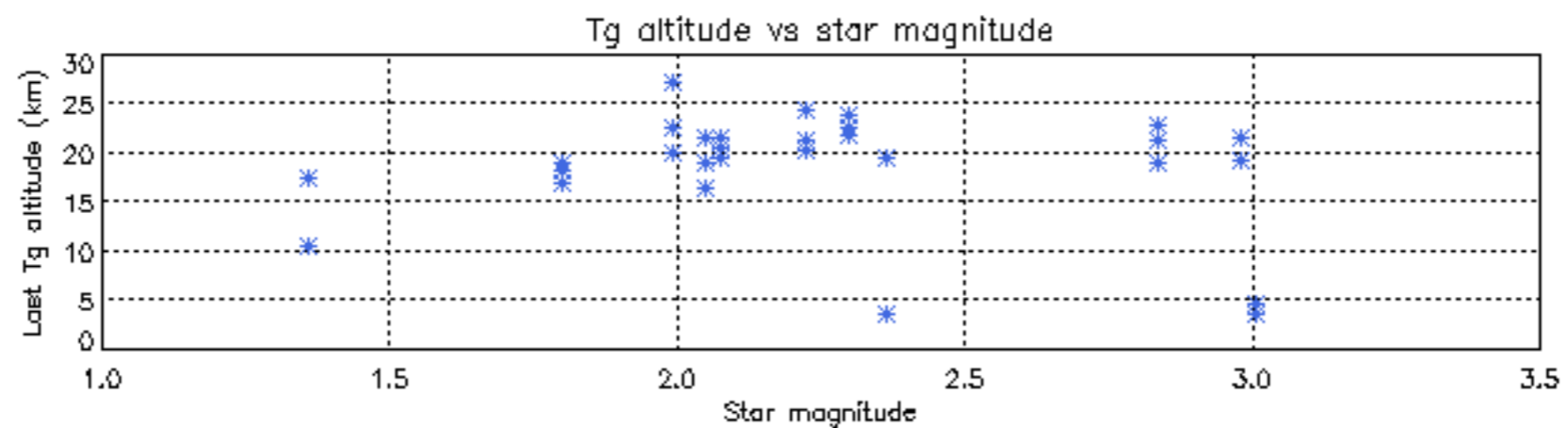
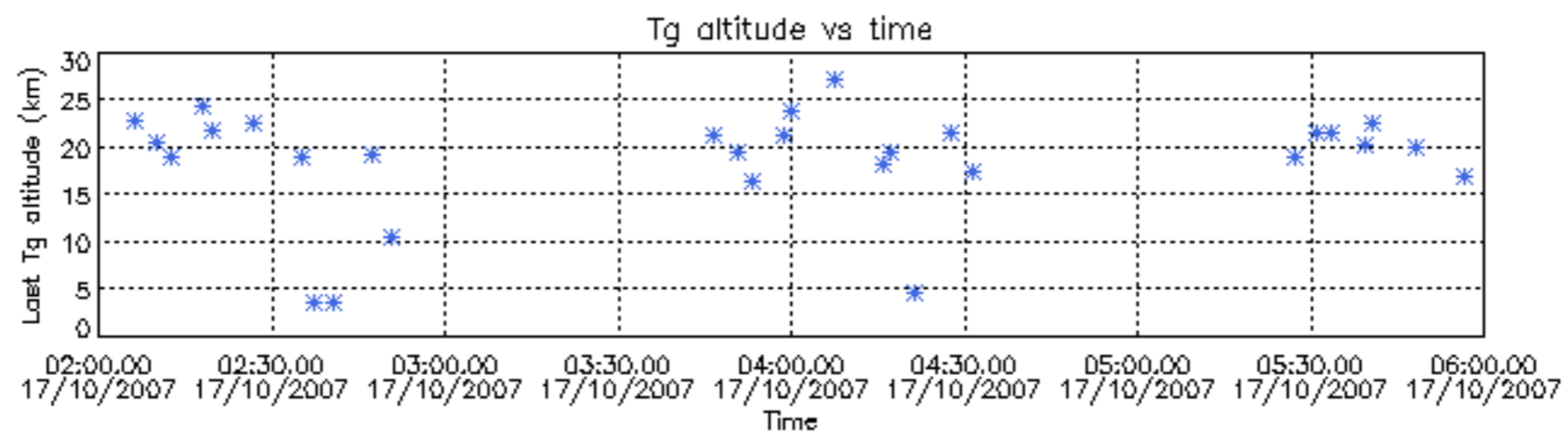
Percentage of saturation errors per profile

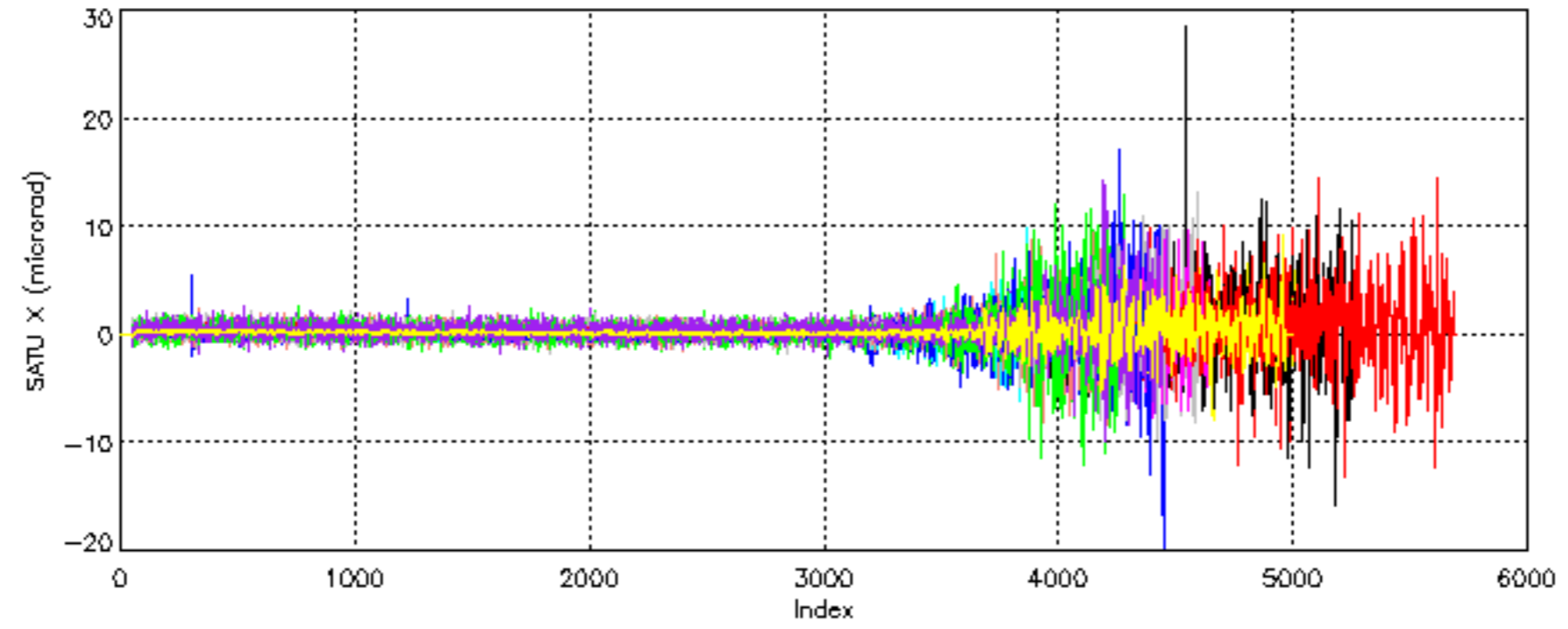


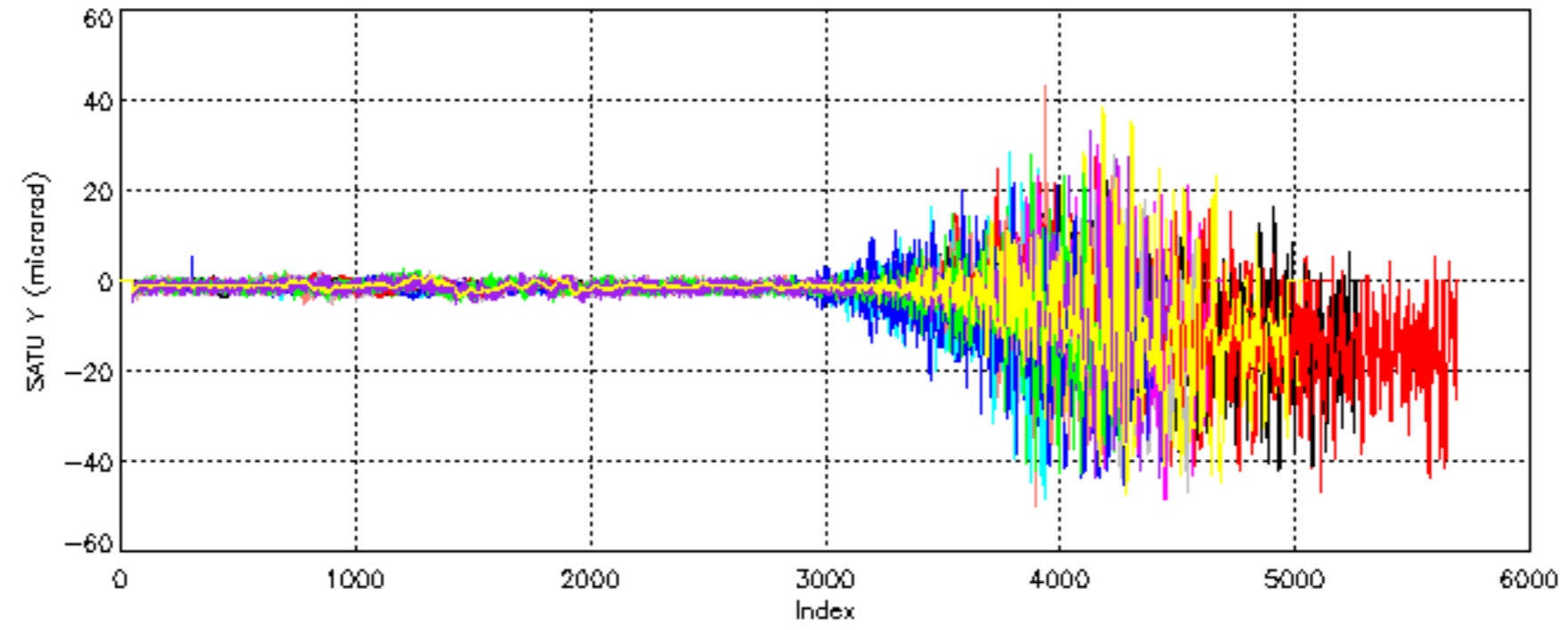
Tangent altitude at which the star is lost

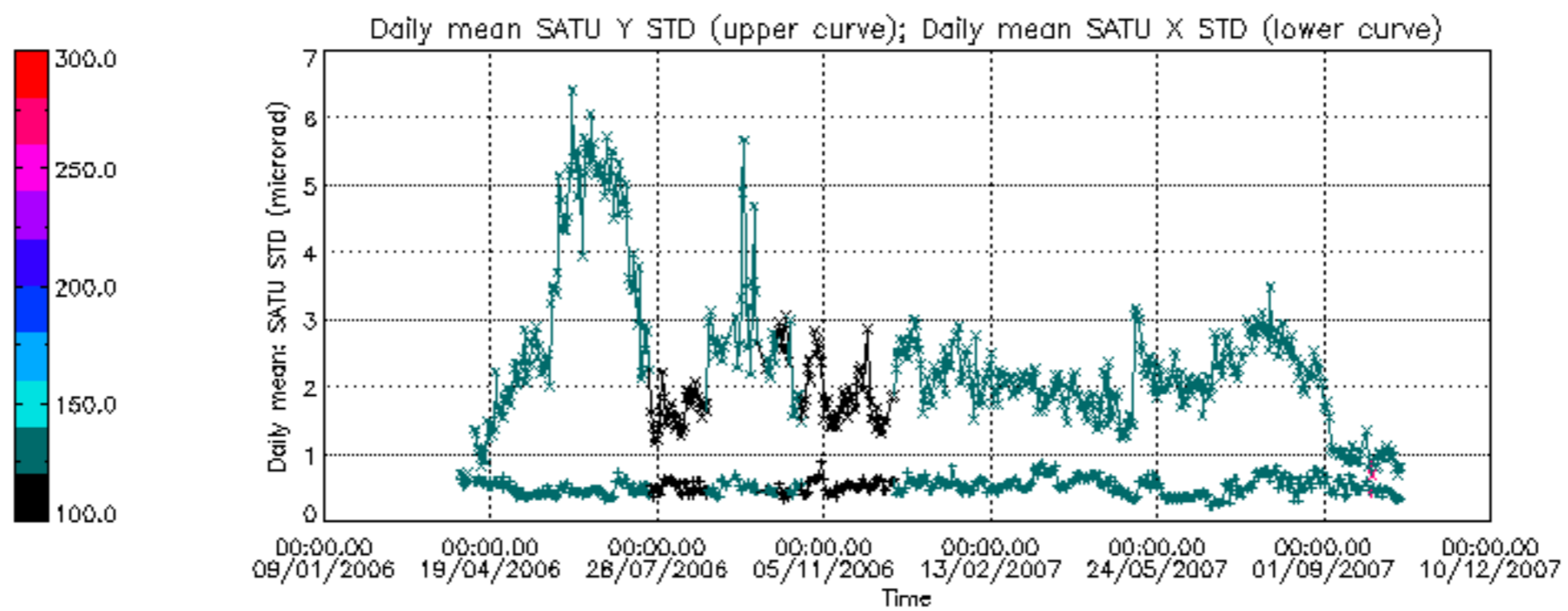


Tangent altitude at which the star is lost










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8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
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2; -2031.4; 07-OCT-2007 02:50:28; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;29287
3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288
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16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288
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21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288
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6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288
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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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 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
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 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 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
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300
 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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 6; -258.9; 07-OCT-2007 06:41:13; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29289
 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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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290
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 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290
 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
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290
 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
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 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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4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
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19; 7199.9; 07-OCT-2007 10:26:08; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29291
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6; 3427.5; 07-OCT-2007 11:03:51; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29292
7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
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9; 4201.8; 07-OCT-2007 12:57:21; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29293
10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
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13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
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 10; 4014.5; 22-OCT-2007 15:03:34; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;29509
 11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
 12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
 13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
 14; 5906.1; 22-OCT-2007 15:35:06; Dark ; 55.5; 65; Lam Vel ; 2.20; 4400;occ; 111; 0;29509
 15; 5990.2; 22-OCT-2007 15:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29509
 16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
 17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
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 20; 6950.2; 22-OCT-2007 15:52:30; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29509
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 9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
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 5; 2530.7; 22-OCT-2007 18:00:02; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29511
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 12; 4224.2; 22-OCT-2007 18:28:16; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;29511
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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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 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 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
 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512
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 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512
 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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 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515
 6; 416.2; 23-OCT-2007 00:07:12; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29515
 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
 10; 1601.7; 23-OCT-2007 00:26:57; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29515
 11; 2172.0; 23-OCT-2007 00:36:27; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29515

12; 2406.2; 23-OCT-2007 00:40:22; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29515
 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
 17; 3627.5; 23-OCT-2007 01:00:43; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29515
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 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515
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 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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 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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 15; 2950.5; 23-OCT-2007 02:30:02; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29516
 16; 3425.0; 23-OCT-2007 02:37:56; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;29516

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 12; 830.6; 23-OCT-2007 03:35:18; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29517
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 16; 2172.4; 23-OCT-2007 03:57:40; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29517
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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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22; 3628.1; 23-OCT-2007 06:02:31; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29518
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 3; 2408.0; 24-OCT-2007 10:12:22; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;29535
 4; 2526.3; 24-OCT-2007 10:14:20; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29535
 5; 2871.2; 24-OCT-2007 10:20:05; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29535
 6; 2948.1; 24-OCT-2007 10:21:22; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29535
 7; 3424.7; 24-OCT-2007 10:29:19; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29535
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 9; 3918.9; 24-OCT-2007 10:37:33; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29535
 10; 4014.0; 24-OCT-2007 10:39:08; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29535
 11; 4225.6; 24-OCT-2007 10:42:39; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29535
 12; 4645.9; 24-OCT-2007 10:49:40; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29535
 13; 5822.7; 24-OCT-2007 11:09:17; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29535
 14; 5924.6; 24-OCT-2007 11:10:59; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;29535
 15; 6007.1; 24-OCT-2007 11:12:21; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29535
 16; 6098.7; 24-OCT-2007 11:13:53; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29535
 17; 6209.3; 24-OCT-2007 11:15:43; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29535
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 19; 6956.1; 24-OCT-2007 11:28:10; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29535

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6; 2947.5; 24-OCT-2007 17:03:45; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29539
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16; 6101.3; 24-OCT-2007 17:56:19; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29539
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3; 2408.4; 24-OCT-2007 18:35:22; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29540
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5; 2870.8; 24-OCT-2007 18:43:04; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29540
6; 2947.4; 24-OCT-2007 18:44:21; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29540
7; 3424.7; 24-OCT-2007 18:52:18; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29540
8; 3632.7; 24-OCT-2007 18:55:46; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29540
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11; 4225.8; 24-OCT-2007 19:05:39; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;29540
12; 4647.3; 24-OCT-2007 19:12:41; Bright; 41.5; 96; 68Del Leo ; 2.56; 9300;occ; 83; 0;29540
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15; 6010.6; 24-OCT-2007 19:35:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29540
16; 6101.8; 24-OCT-2007 19:36:55; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29540
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5; -209.3; 25-OCT-2007 07:16:32; Dark ; 39.0; 113; Mu Vel ; 2.69; 5000;occ; 78; 0;29547
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10; 4013.6; 26-OCT-2007 07:55:18; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29562
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14; 5945.0; 26-OCT-2007 08:27:29; Dark ; 40.0; 65; Lam Vel ; 2.20; 4400;occ; 80; 0;29562
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18; 6877.7; 26-OCT-2007 08:43:02; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 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
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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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 4; 2521.9; 26-OCT-2007 10:51:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 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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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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3; 2674.3; 29-OCT-2007 12:40:31; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29608

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6; 3424.2; 29-OCT-2007 12:53:01; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29608
7; 3915.4; 29-OCT-2007 13:01:12; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;29608
8; 4011.3; 29-OCT-2007 13:02:48; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;29608
9; 4228.7; 29-OCT-2007 13:06:25; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29608
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13; 6344.1; 29-OCT-2007 13:41:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29608
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3; 2674.0; 29-OCT-2007 14:21:06; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;29609
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