

GOMOS Daily Report 13-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	15OCT2007 07:53:29
Data source version	GOMOS/5.00
Start time of products	13-10-2007 (13OCT2007 00:00:00)
Stop time of products	14-10-2007 (14OCT2007 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)

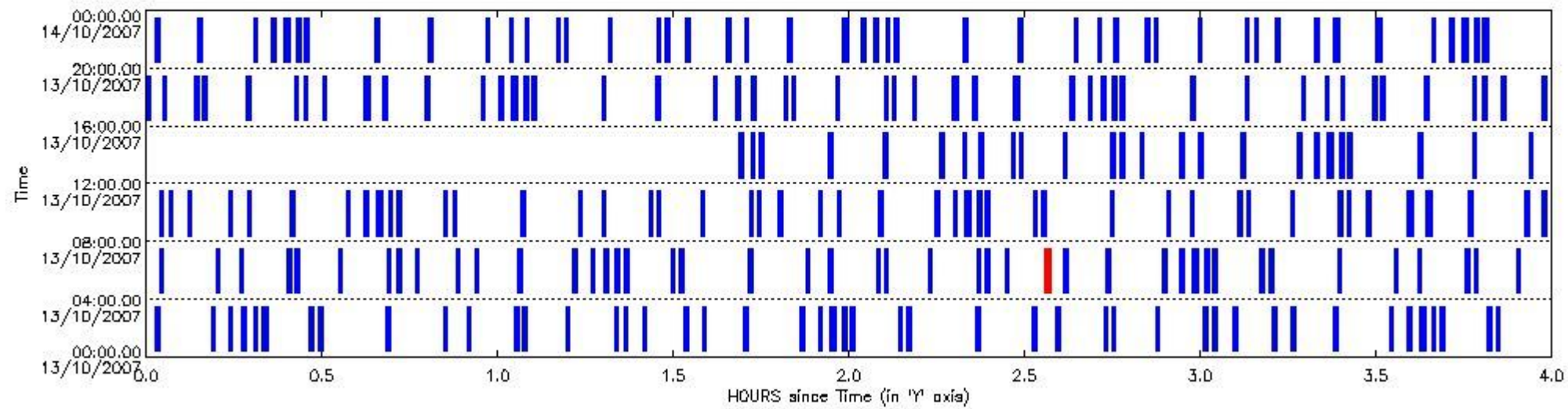
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

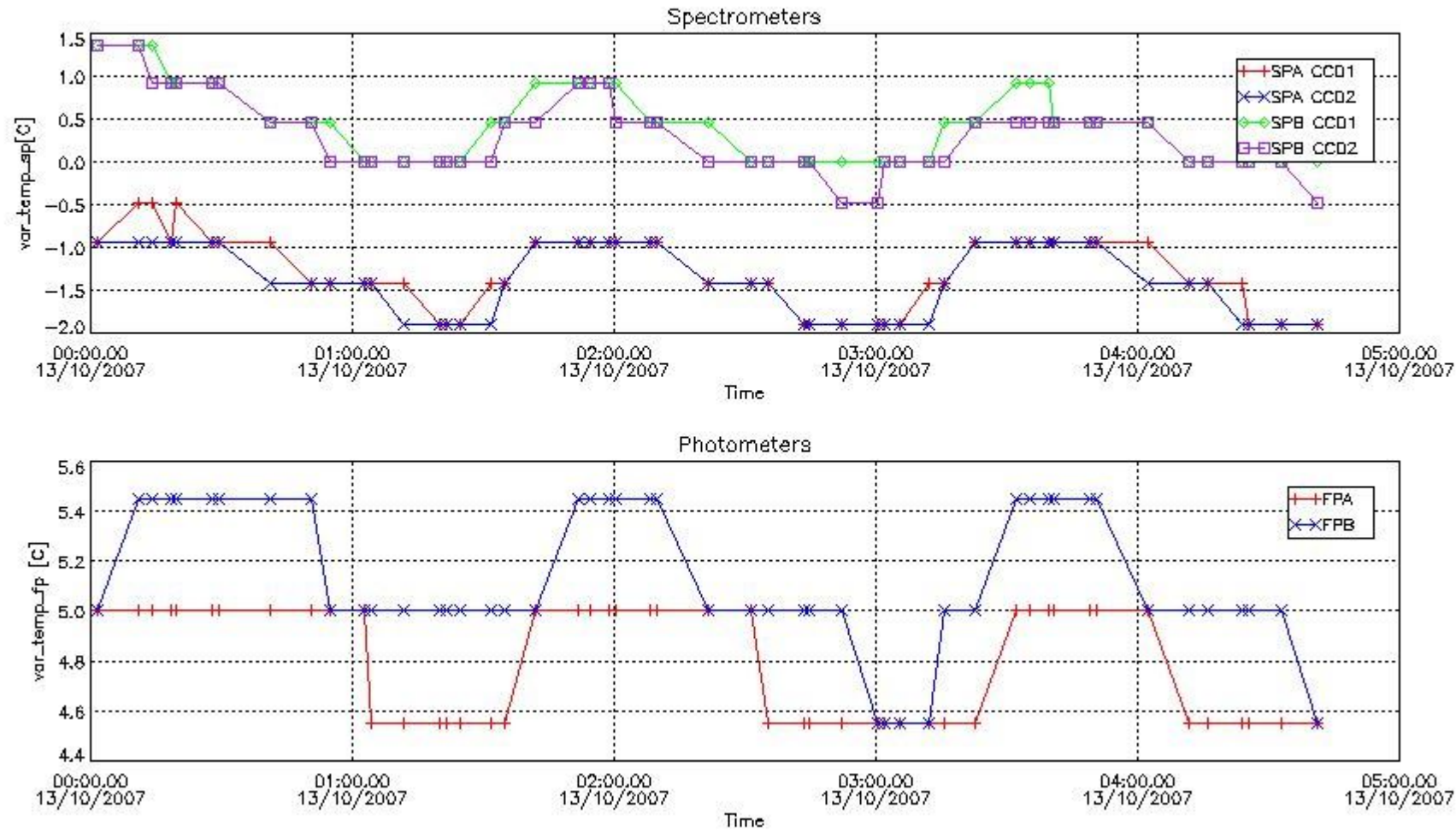
UTC start time	Star name	Star ID	Orbit
13-OCT-2007 06:33:26	17EpsLeo	166	29375

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_1PNPDE20071013_000125_000000502062_00259_29371_2383.N1	13-OCT-2007 00:01:25	Dark	50.000	48	30Alp Hya	1.9770	4100.0	100	29371	No
2	GOM_TRA_1PNPDE20071013_001101_000000452062_00259_29371_2531.N1	13-OCT-2007 00:11:01	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29371	No
3	GOM_TRA_1PNPDE20071013_001404_000000412062_00259_29371_2532.N1	13-OCT-2007 00:14:04	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	29371	No
4	GOM_TRA_1PNPDE20071013_001816_000000432062_00260_29372_2533.N1	13-OCT-2007 00:18:16	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	29372	No
5	GOM_TRA_1PNPDE20071013_001938_000000622062_00260_29372_2534.N1	13-OCT-2007 00:19:38	Dark	62.000	2	Alp Car	-0.73600	7000.0	124	29372	No
6	GOM_TRA_1PNPDE20071013_002748_000000412062_00260_29372_2535.N1	13-OCT-2007 00:27:48	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	29372	No
7	GOM_TRA_1PNPDE20071013_002915_000000502062_00260_29372_2536.N1	13-OCT-2007 00:29:15	Dark	49.500	9	Alp Eri	0.45300	24000.	99	29372	No
8	GOM_TRA_1PNPDE20071013_004058_000000452062_00260_29372_2537.N1	13-OCT-2007 00:40:58	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	29372	No
9	GOM_TRA_1PNPDE20071013_005044_000000372062_00260_29372_2538.N1	13-OCT-2007 00:50:44	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	29372	No
10	GOM_TRA_1PNPDE20071013_005444_000000372062_00260_29372_2539.N1	13-OCT-2007 00:54:44	Bright	36.500	58	21Alp And	2.0730	11000.	73	29372	No

11	GOM_TRA_1PNPDE20071013_010254_000000392062_00260_29372_2540.N1	13-OCT-2007 01:02:54	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	29372	No
12	GOM_TRA_1PNPDE20071013_010416_000000382062_00260_29372_2541.N1	13-OCT-2007 01:04:16	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	29372	No
13	GOM_TRA_1PNPDE20071013_011144_000000362062_00260_29372_2542.N1	13-OCT-2007 01:11:44	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29372	No
14	GOM_TRA_1PNPDE20071013_011956_000000382062_00260_29372_2543.N1	13-OCT-2007 01:19:56	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29372	No
15	GOM_TRA_1PNPDE20071013_012129_000000352062_00260_29372_2544.N1	13-OCT-2007 01:21:29	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29372	No
16	GOM_TRA_1PNPDE20071013_012450_000000342062_00260_29372_2545.N1	13-OCT-2007 01:24:50	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	29372	No
17	GOM_TRA_1PNPDE20071013_013141_000000592062_00260_29372_2546.N1	13-OCT-2007 01:31:41	Bright	59.000	166	17Eps Leo	2.9800	6000.0	118	29372	No
18	GOM_TRA_1PNPDE20071013_013453_000000392062_00260_29372_2547.N1	13-OCT-2007 01:34:53	Bright	39.000	22	32Alp Leo	1.3600	15200.	78	29372	No
19	GOM_TRA_1PNPDE20071013_014201_000000512062_00260_29372_2661.N1	13-OCT-2007 01:42:01	Dark	50.500	48	30Alp Hya	1.9770	4100.0	101	29372	No
20	GOM_TRA_1PNPDE20071013_015137_000000422062_00260_29372_2662.N1	13-OCT-2007 01:51:37	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	29372	No
21	GOM_TRA_1PNPDE20071013_015441_000000432062_00260_29372_2663.N1	13-OCT-2007 01:54:41	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29372	No
22	GOM_TRA_1PNPDE20071013_015852_000000432062_00261_29373_2664.N1	13-OCT-2007 01:58:52	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	29373	No
23	GOM_TRA_1PNPDE20071013_020015_000000482062_00261_29373_2665.N1	13-OCT-2007 02:00:15	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	29373	No
24	GOM_TRA_1PNPDE20071013_020824_000000372062_00261_29373_2666.N1	13-OCT-2007 02:08:24	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	29373	No
25	GOM_TRA_1PNPDE20071013_020951_000000392062_00261_29373_2667.N1	13-OCT-2007 02:09:51	Dark	38.500	9	Alp Eri	0.45300	24000.	77	29373	No
26	GOM_TRA_1PNPDE20071013_022134_000000482062_00261_29373_2668.N1	13-OCT-2007 02:21:34	Straylight	47.500	52	16Bet Cet	2.0370	4500.0	95	29373	No
27	GOM_TRA_1PNPDE20071013_023120_000000362062_00261_29373_2669.N1	13-OCT-2007 02:31:20	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29373	No
28	GOM_TRA_1PNPDE20071013_023520_000000372062_00261_29373_2670.N1	13-OCT-2007 02:35:20	Bright	37.000	58	21Alp And	2.0730	11000.	74	29373	No
29	GOM_TRA_1PNPDE20071013_024329_000000372062_00261_29373_2671.N1	13-OCT-2007 02:43:29	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29373	No
30	GOM_TRA_1PNPDE20071013_024452_000000372062_00261_29373_2672.N1	13-OCT-2007 02:44:52	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29373	No
31	GOM_TRA_1PNPDE20071013_025220_000000342062_00261_29373_2673.N1	13-OCT-2007 02:52:20	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29373	No
32	GOM_TRA_1PNPDE20071013_030032_000000382062_00261_29373_2832.N1	13-OCT-2007 03:00:32	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29373	No
33	GOM_TRA_1PNPDE20071013_030205_000000522062_00261_29373_2833.N1	13-OCT-2007 03:02:05	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29373	No
34	GOM_TRA_1PNPDE20071013_030525_000000522062_00261_29373_2834.N1	13-OCT-2007 03:05:25	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29373	No
35	GOM_TRA_1PNPDE20071013_031217_000000402062_00261_29373_2835.N1	13-OCT-2007 03:12:17	Bright	39.500	166	17Eps Leo	2.9800	6000.0	79	29373	No
36	GOM_TRA_1PNPDE20071013_031529_000000392062_00261_29373_2836.N1	13-OCT-2007 03:15:29	Bright	38.500	22	32Alp Leo	1.3600	15200.	77	29373	No
37	GOM_TRA_1PNPDE20071013_032238_000000522062_00261_29373_2837.N1	13-OCT-2007 03:22:38	Dark	51.500	48	30Alp Hya	1.9770	4100.0	103	29373	No
38	GOM_TRA_1PNPDE20071013_033214_000000412062_00261_29373_2838.N1	13-OCT-2007 03:32:14	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	29373	No
39	GOM_TRA_1PNPDE20071013_033517_000000492062_00261_29373_2839.N1	13-OCT-2007 03:35:17	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	29373	No
40	GOM_TRA_1PNPDE20071013_033929_000000442062_00262_29374_2840.N1	13-OCT-2007 03:39:29	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29374	No
41	GOM_TRA_1PNPDE20071013_034051_000000472062_00262_29374_2841.N1	13-OCT-2007 03:40:51	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	29374	No
42	GOM_TRA_1PNPDE20071013_034900_000000382062_00262_29374_2842.N1	13-OCT-2007 03:49:00	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29374	No
43	GOM_TRA_1PNPDE20071013_035027_000000402062_00262_29374_2843.N1	13-OCT-2007 03:50:27	Dark	40.000	9	Alp Eri	0.45300	24000.	80	29374	No
44	GOM_TRA_1PNPDE20071013_040211_000000442062_00262_29374_2844.N1	13-OCT-2007 04:02:11	Straylight	43.500	52	16Bet Cet	2.0370	4500.0	87	29374	No
45	GOM_TRA_1PNPDE20071013_041156_000000372062_00262_29374_2845.N1	13-OCT-2007 04:11:56	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	29374	No
46	GOM_TRA_1PNPDE20071013_041555_000000382062_00262_29374_2846.N1	13-OCT-2007 04:15:55	Bright	38.000	58	21Alp And	2.0730	11000.	76	29374	No
47	GOM_TRA_1PNPDE20071013_042405_000000392062_00262_29374_2847.N1	13-OCT-2007 04:24:05	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	29374	No
48	GOM_TRA_1PNPDE20071013_042528_000000372062_00262_29374_2848.N1	13-OCT-2007 04:25:28	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29374	No
49	GOM_TRA_1PNPDE20071013_043256_000000332062_00262_29374_2849.N1	13-OCT-2007 04:32:56	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29374	No
50	GOM_TRA_1PNPDE20071013_044108_000000362062_00262_29374_2986.N1	13-OCT-2007 04:41:08	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29374	No

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



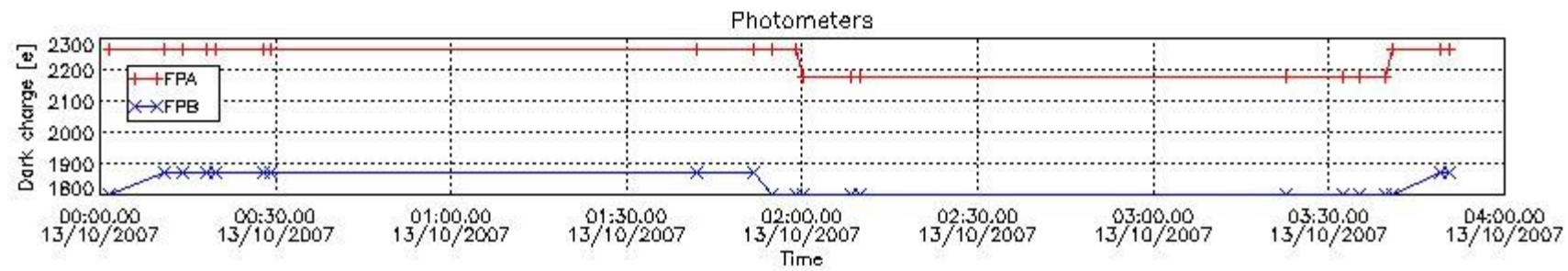
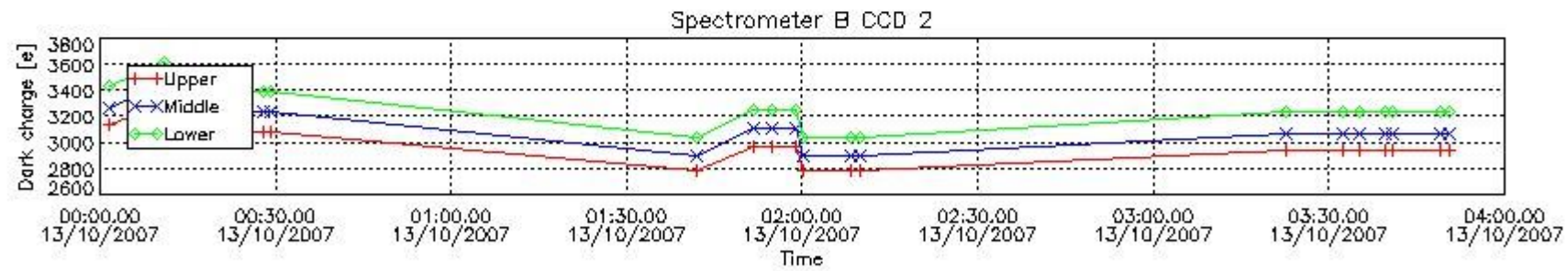
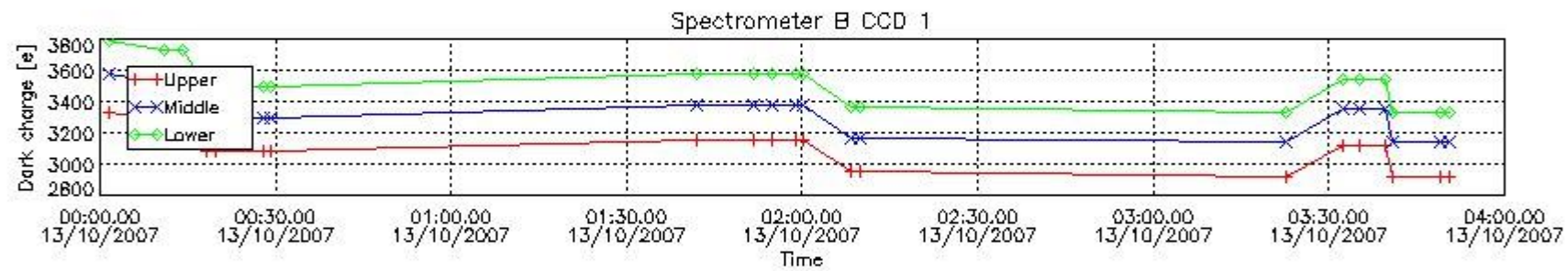
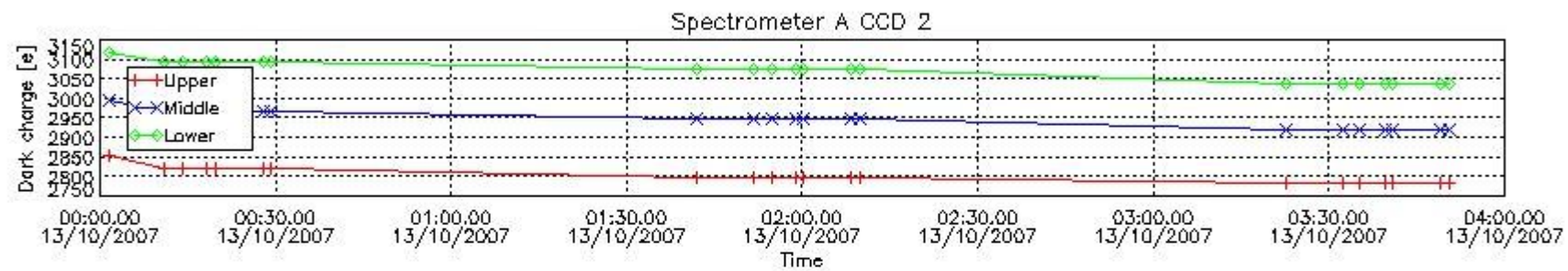
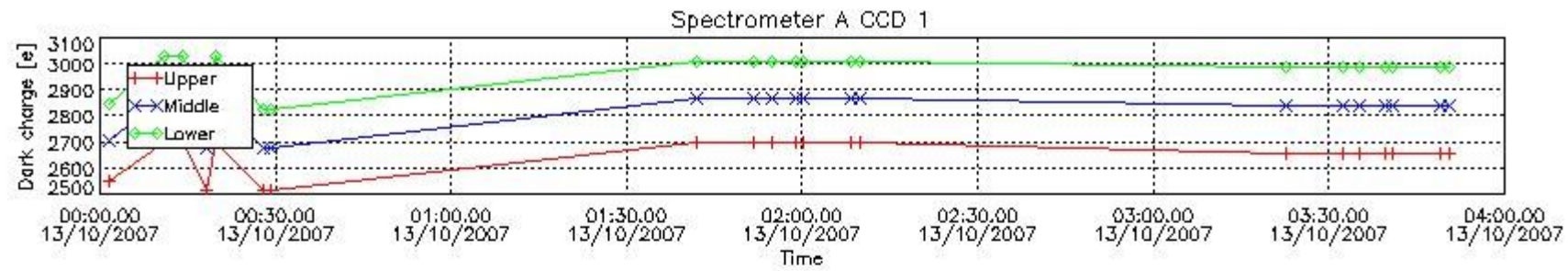
4. Overview of dark signal processing per product

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



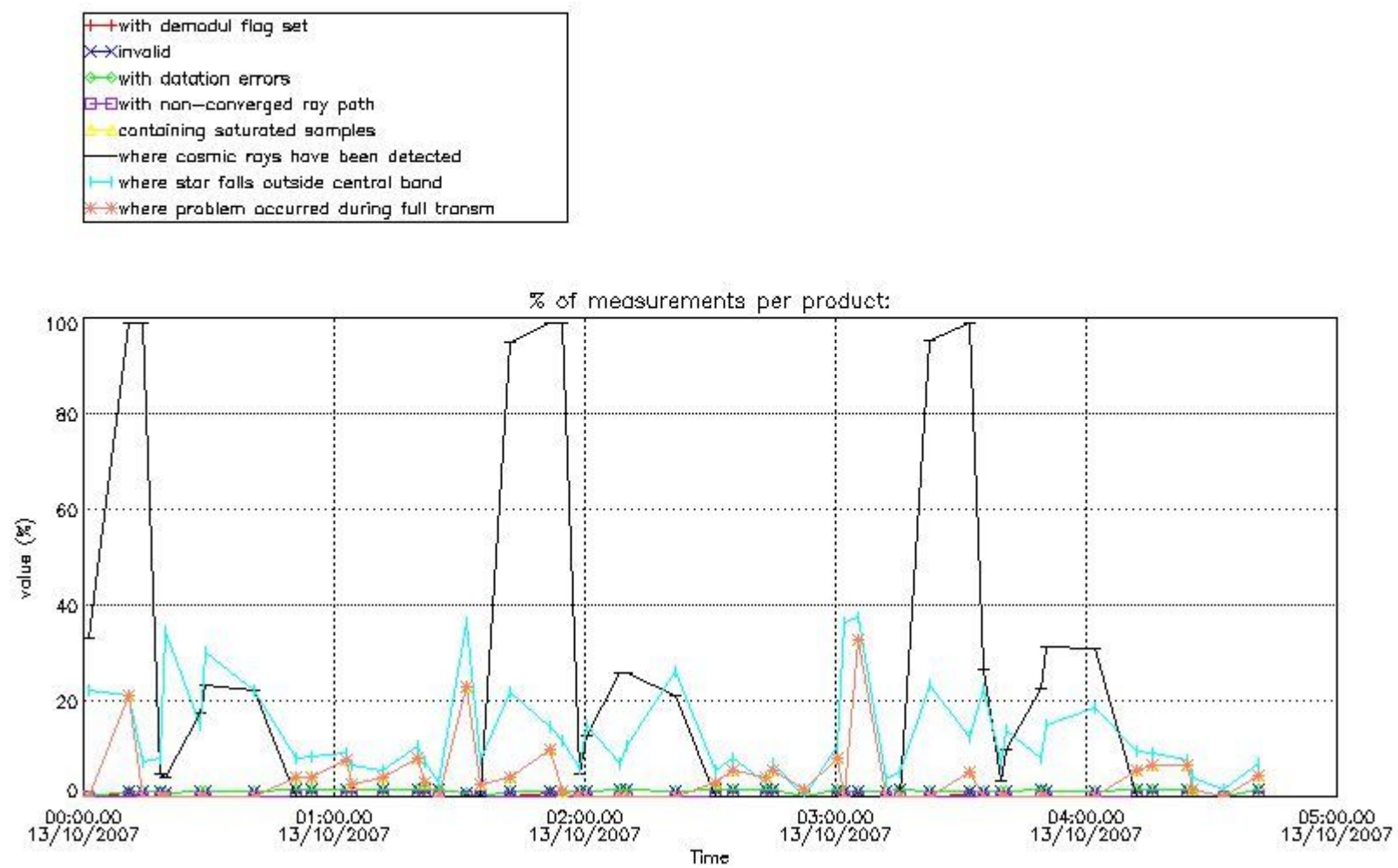
5. Demodulation flag and quality information monitoring

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.

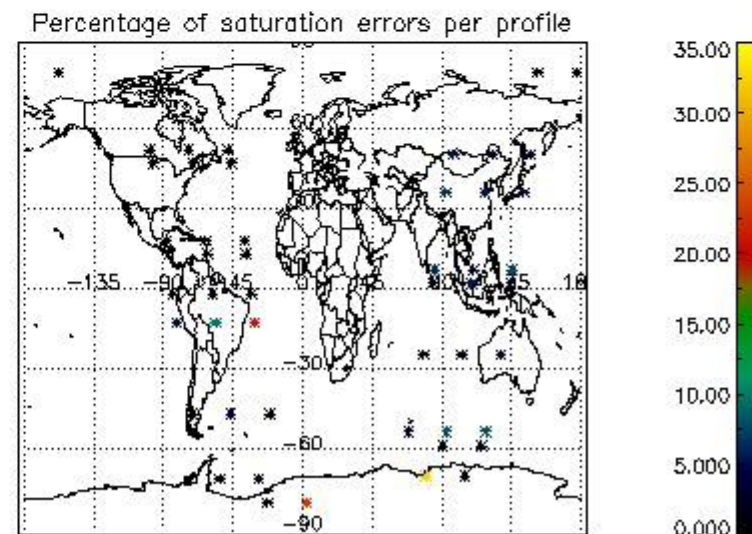
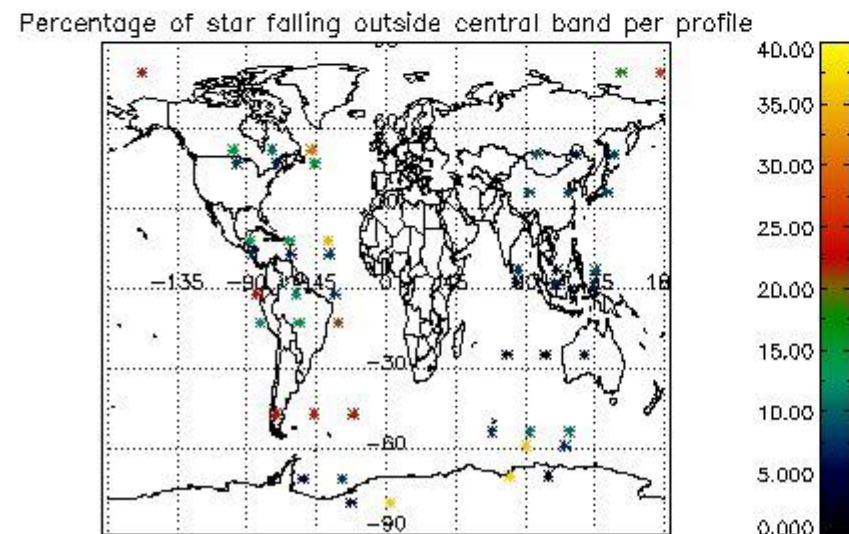
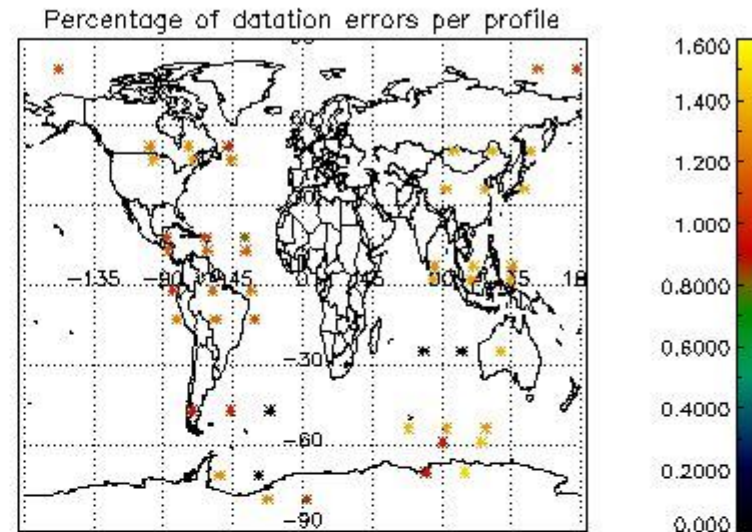
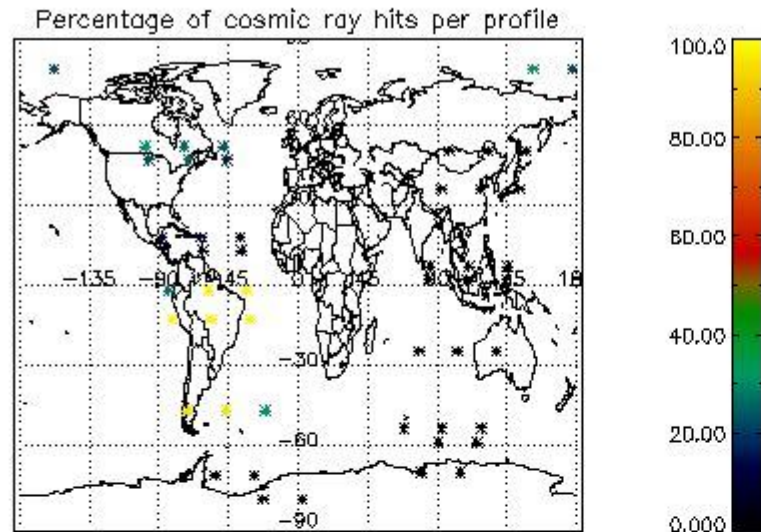
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.0000 %
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)



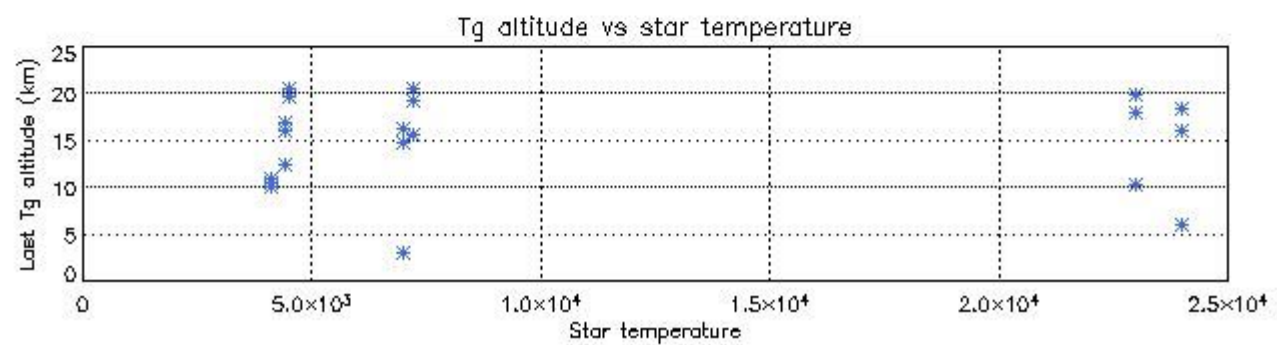
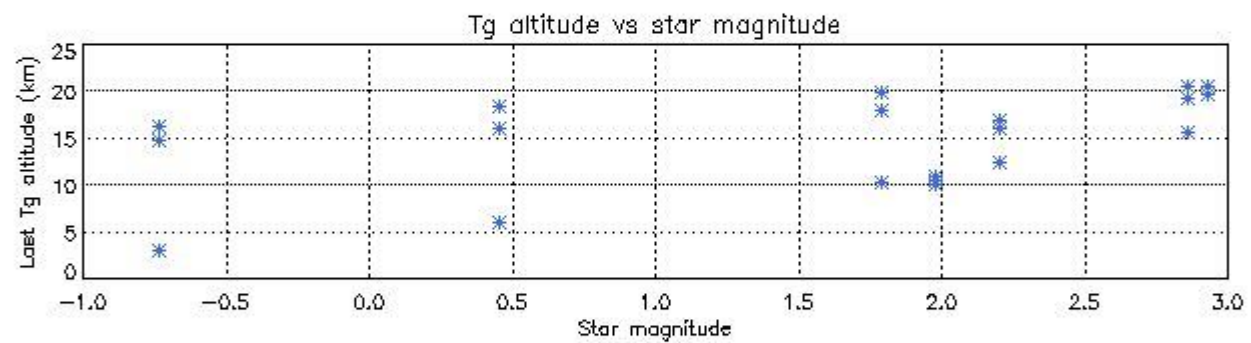
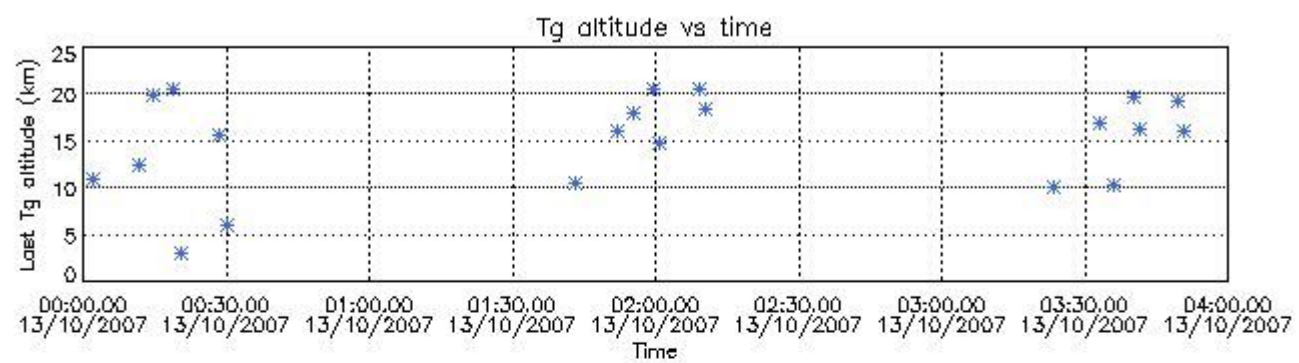
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.010	19.423	NaN
St. deviation:	4.9837	6.0383	NaN
Maximum:	20.578	27.403	NaN
Minimum:	3.0219	4.2276	NaN
Number of data:	21.000	26.000	NaN

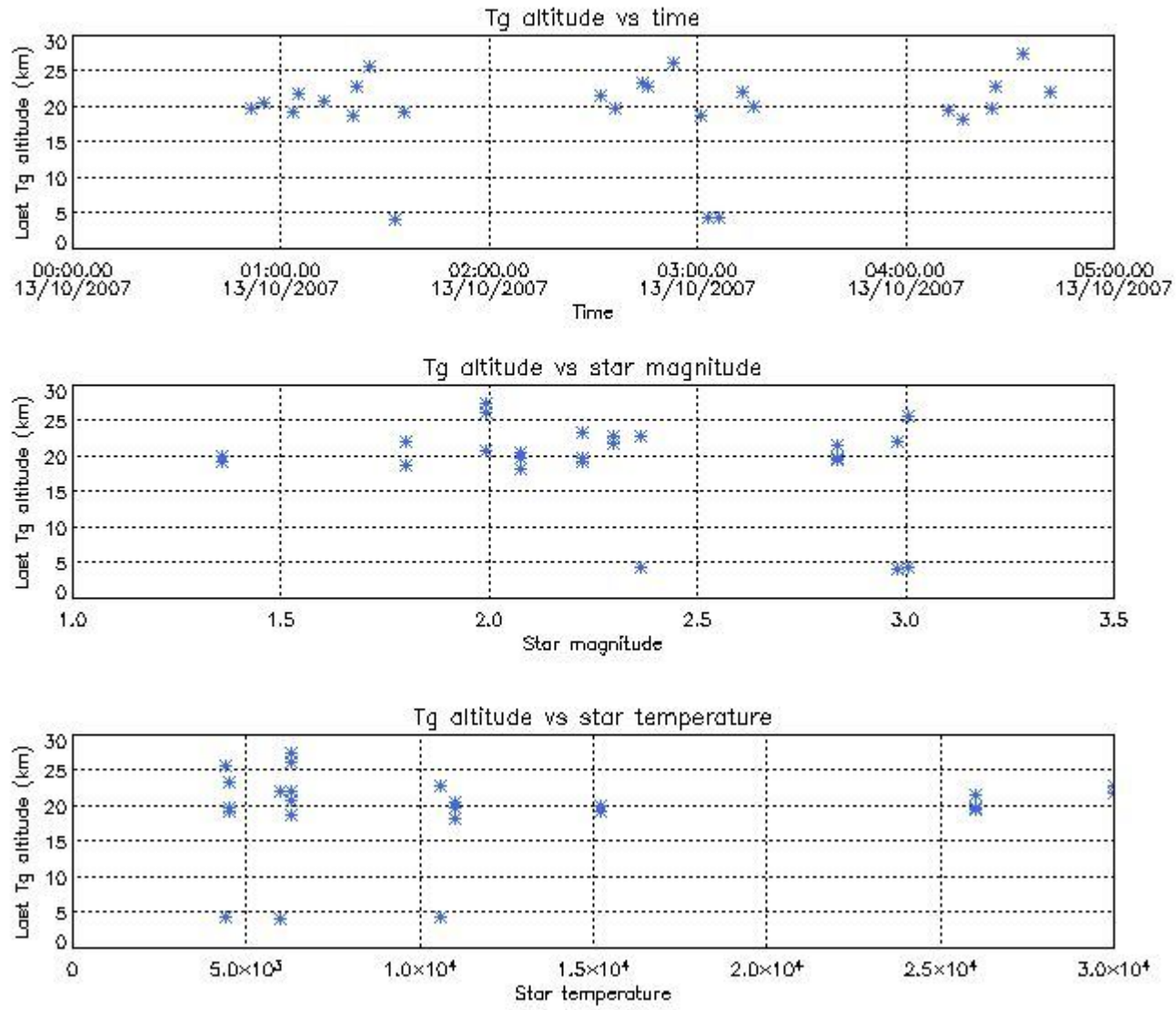
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

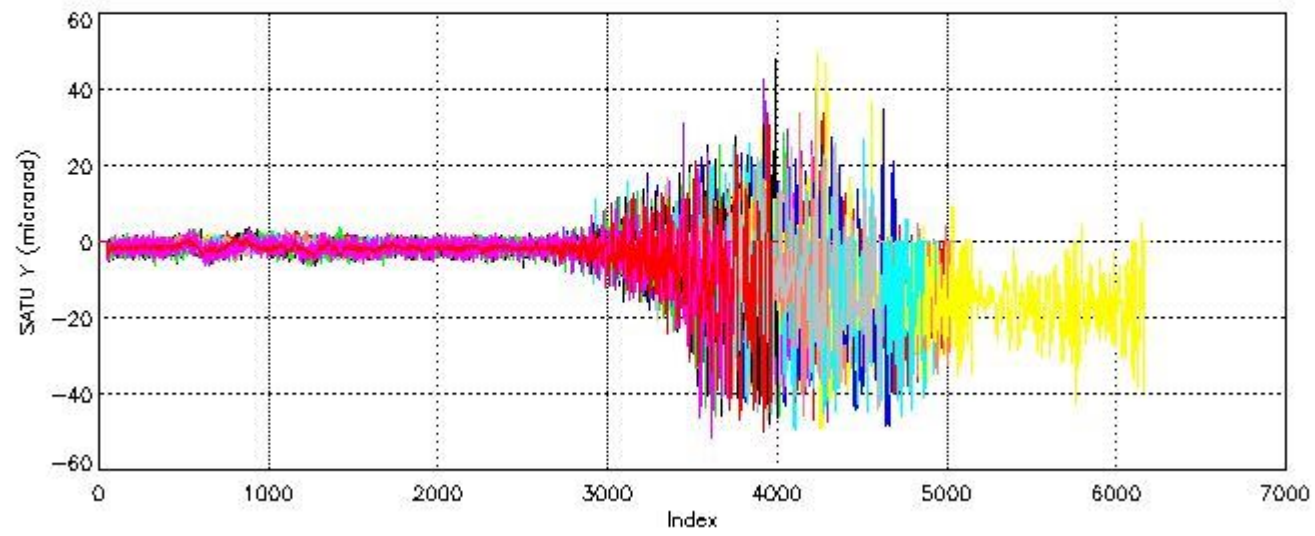
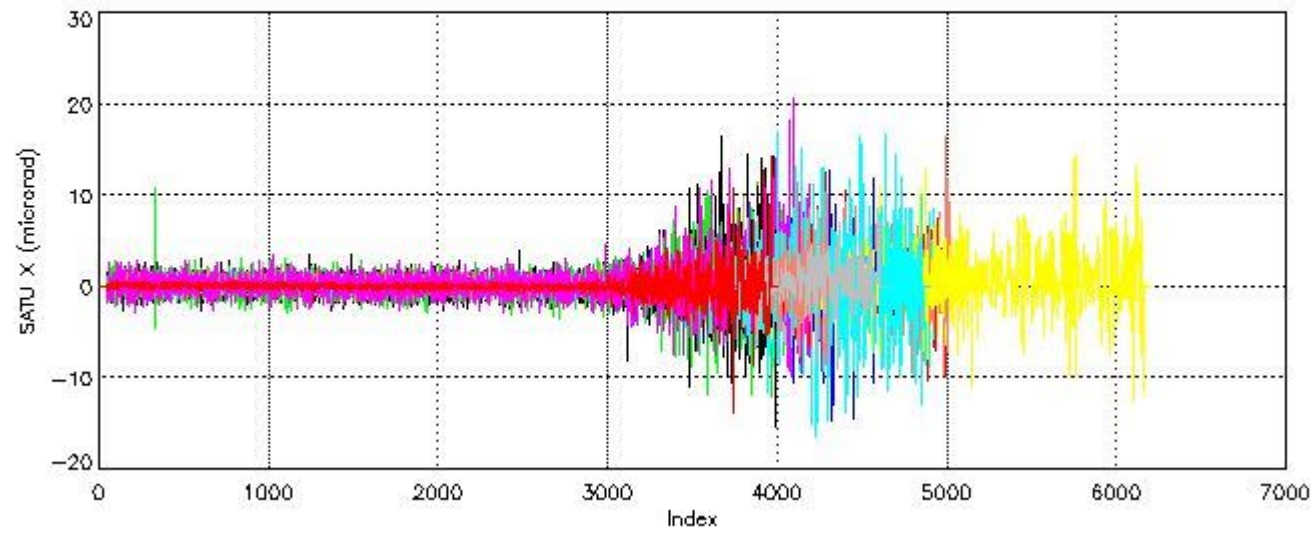


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19631	-1.2404	0.085480	-1.2723
St. deviation:	0.40027	0.96024	0.76377	1.3657
Maximum:	10.700	3.7000	6.4000	5.5000
Minimum:	-4.7000	-6.3000	-5.2000	-8.4000

Number of data:	20400.	20400.	22000.	22000.
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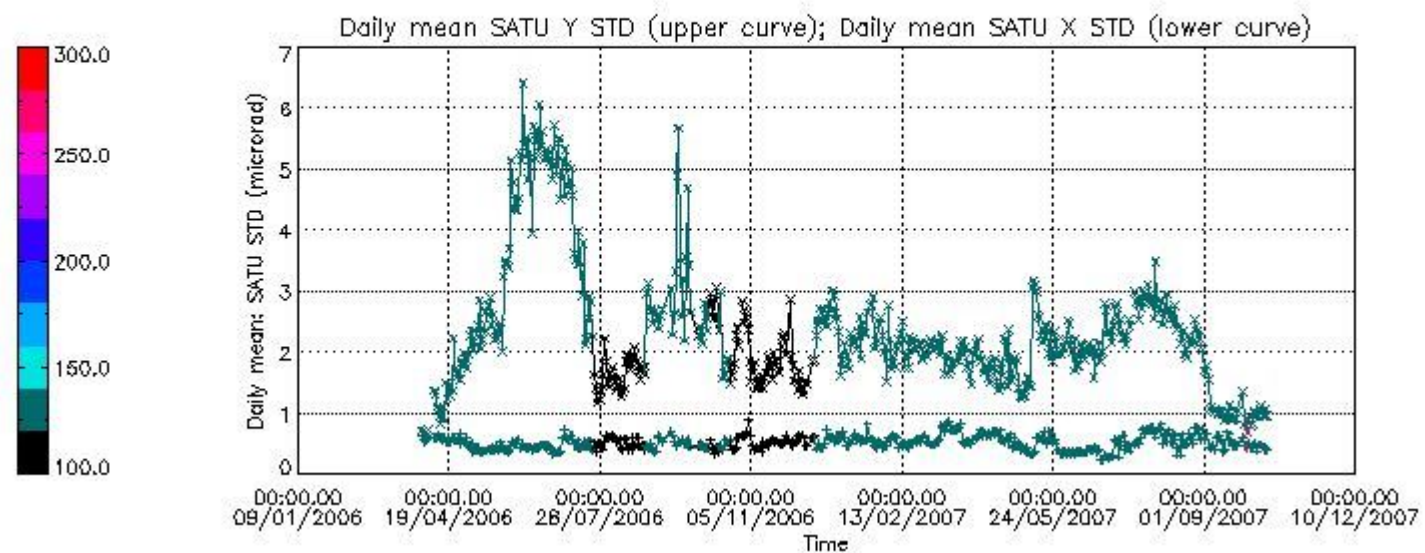
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

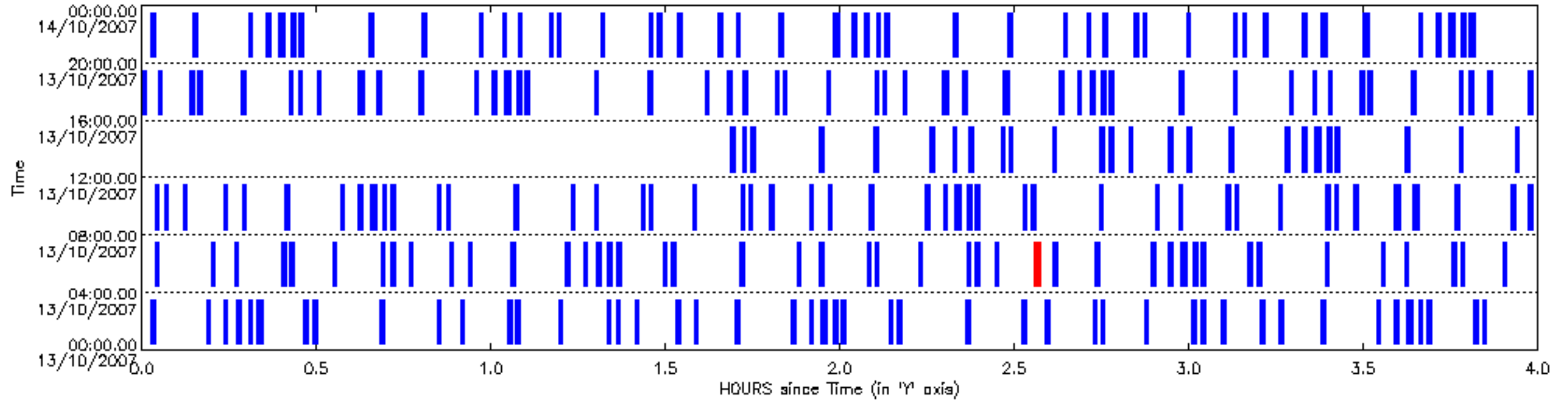
Lower curve: STD of SATU X axis

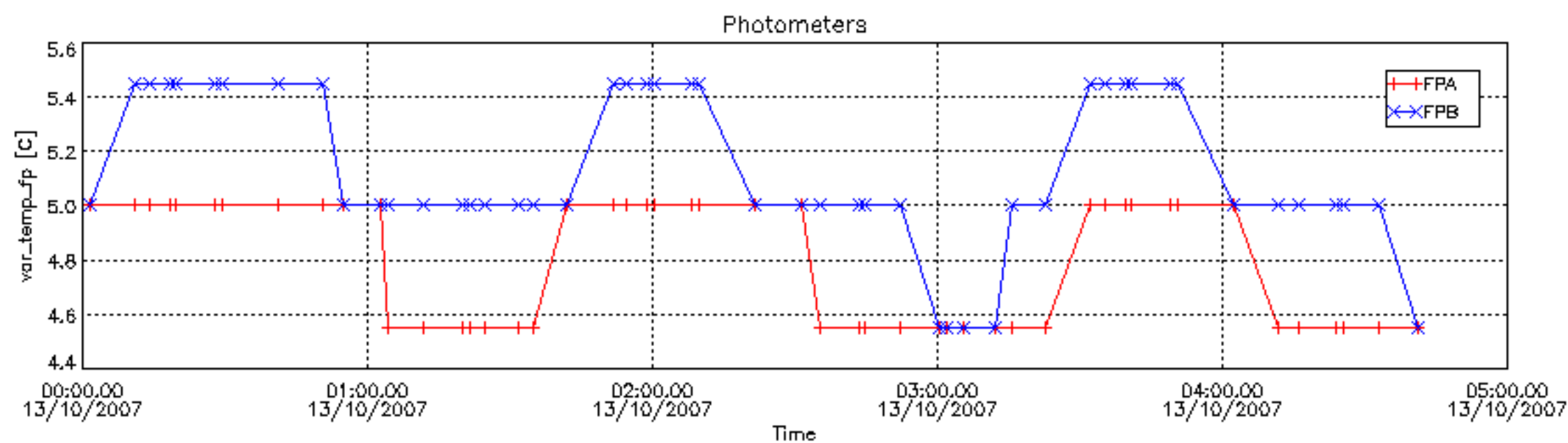
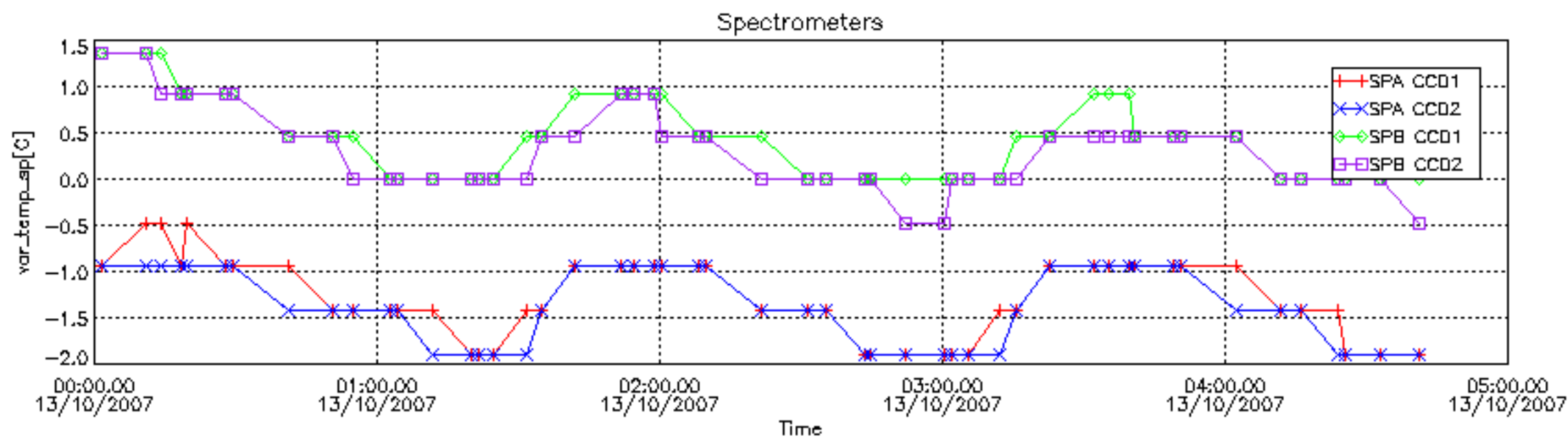


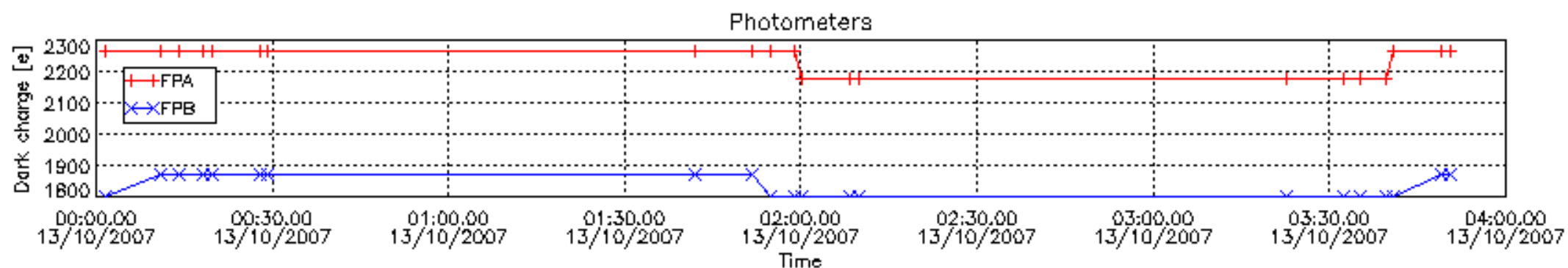
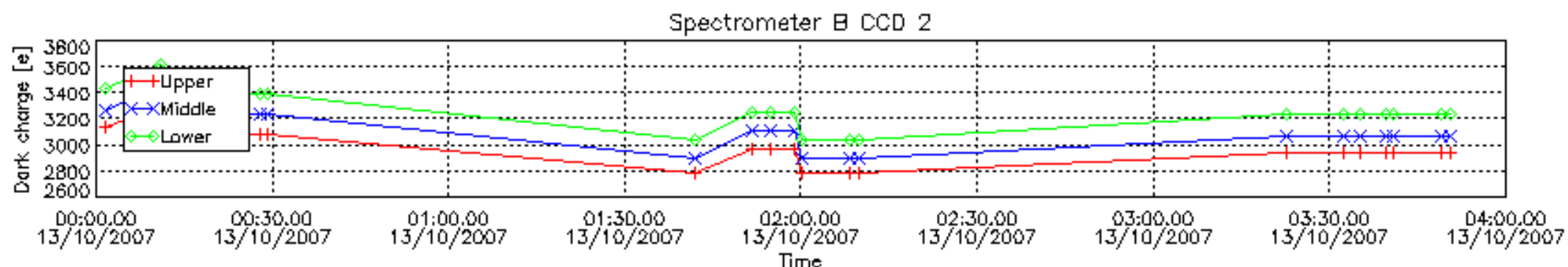
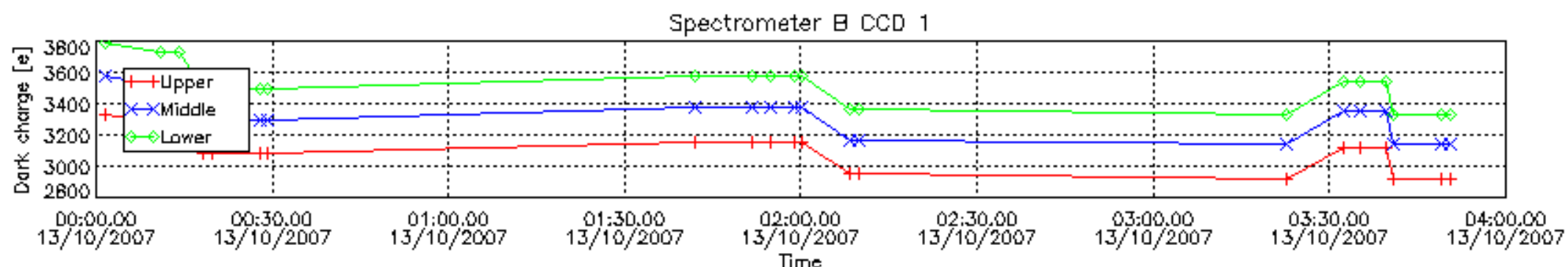
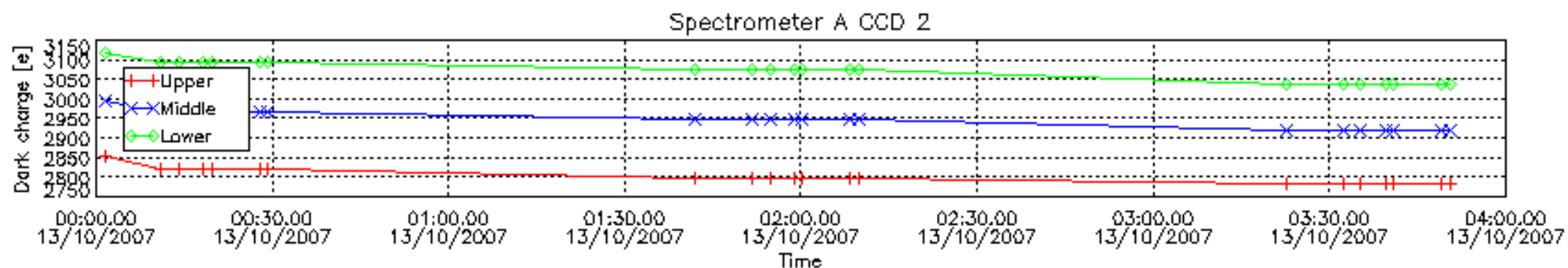
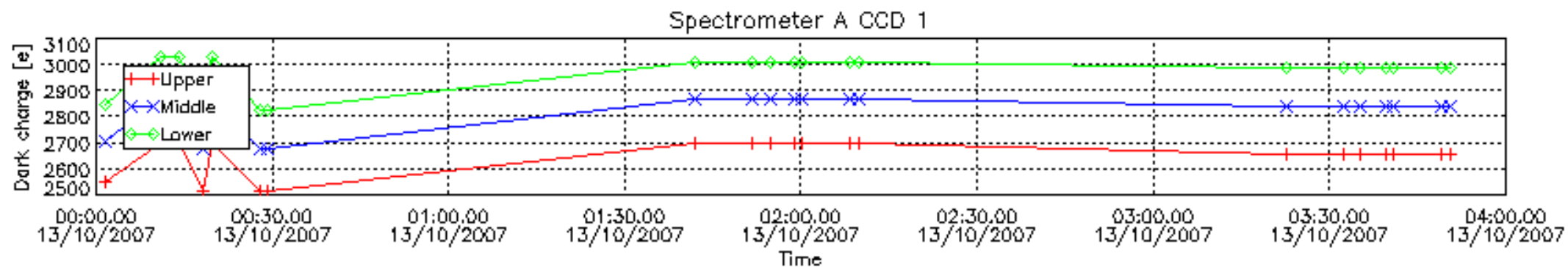
8. Auxiliary Data Files used for the production reported in section 2.4

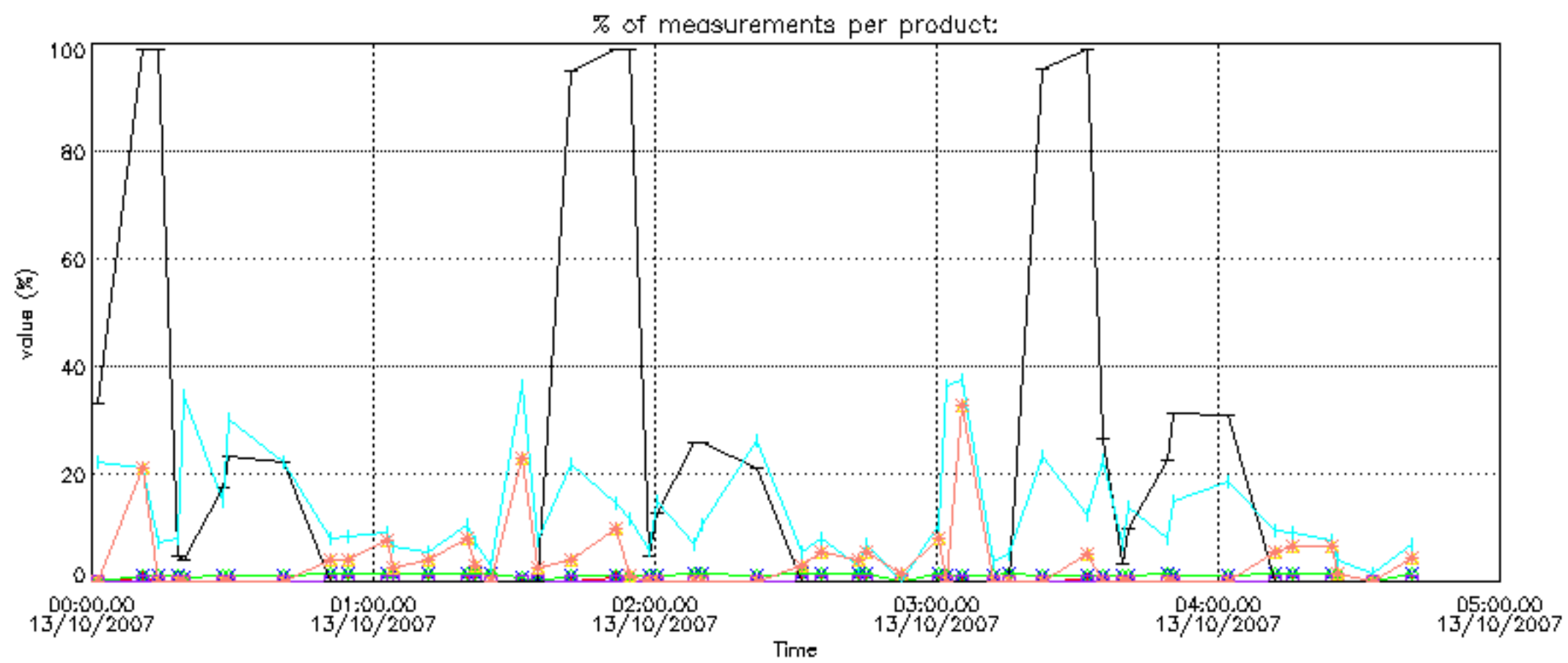
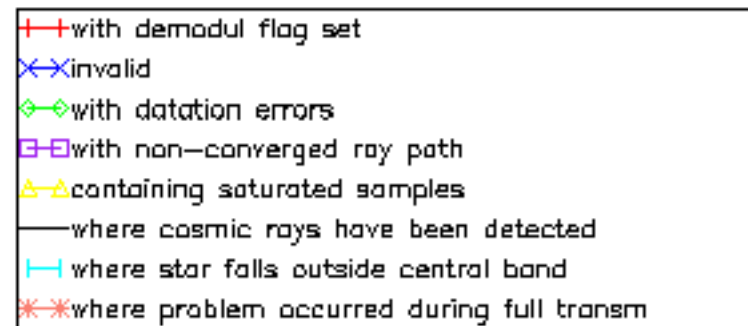
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-OCT-2007 00:01:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000	1	13-OCT-2007 00:01:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-OCT-2007 00:01:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-OCT-2007 00:01:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-OCT-2007 00:01:25
ECMWF_FILE	AUX_ECF_AXNECM20071012_060115_20071012_210000_20071013_090000	1	13-OCT-2007 00:01:25
ECMWF_FILE	AUX_ECF_AXNECM20071012_181116_20071013_030000_20071013_150000	32	13-OCT-2007 03:00:32
OPTIONAL_ECMWF_FILE	MISSING	1	13-OCT-2007 00:01:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071012_210810_000038262062_00258_29370_4342.N1	1	13-OCT-2007 00:01:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071012_221714_000057382062_00258_29370_4343.N1	2	13-OCT-2007 00:11:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071012_235811_000057382062_00259_29371_4344.N1	19	13-OCT-2007 01:42:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071013_013909_000041442062_00260_29372_4345.N1	32	13-OCT-2007 03:00:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071013_025332_000057382062_00261_29373_4346.N1	50	13-OCT-2007 04:41:08

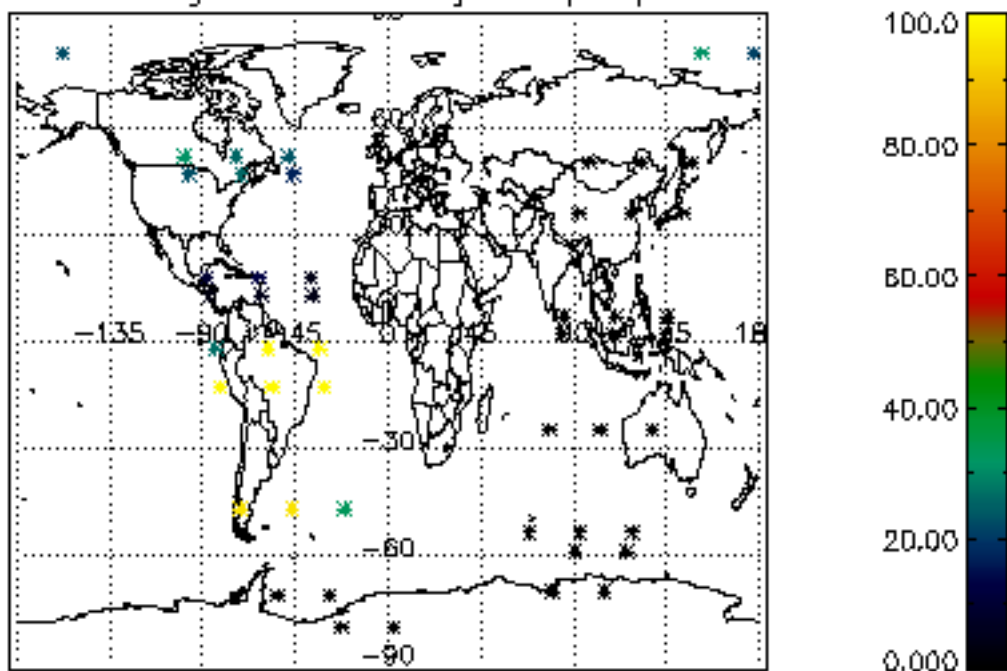




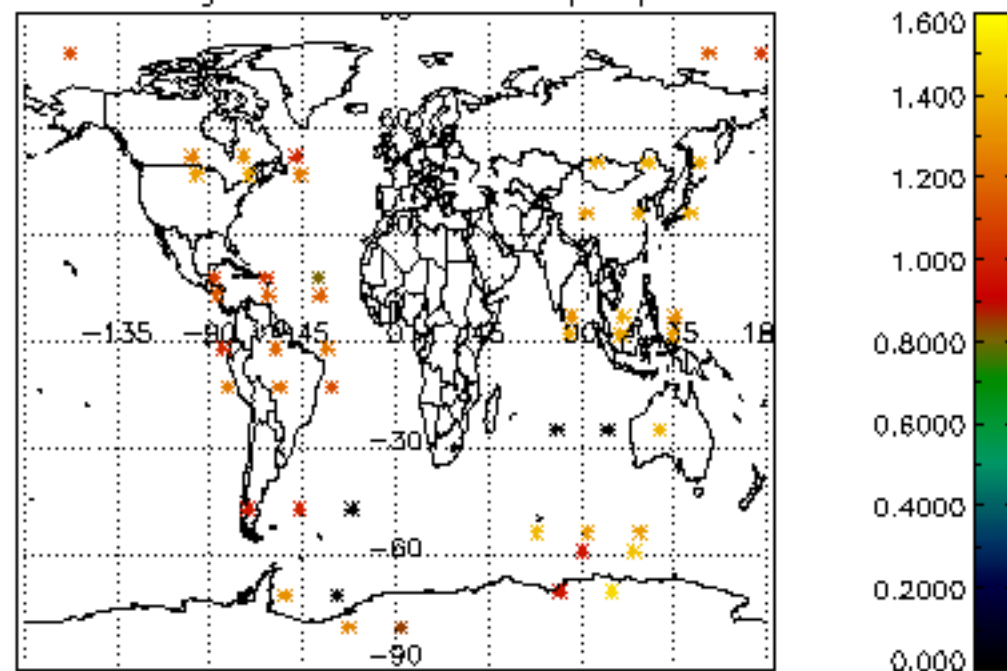




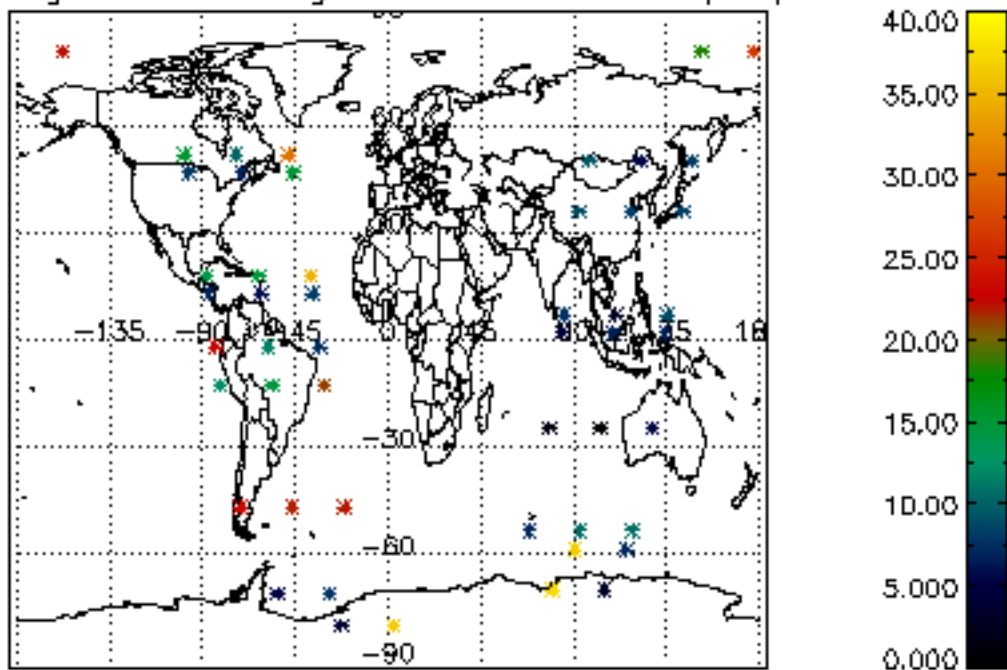
Percentage of cosmic ray hits per profile



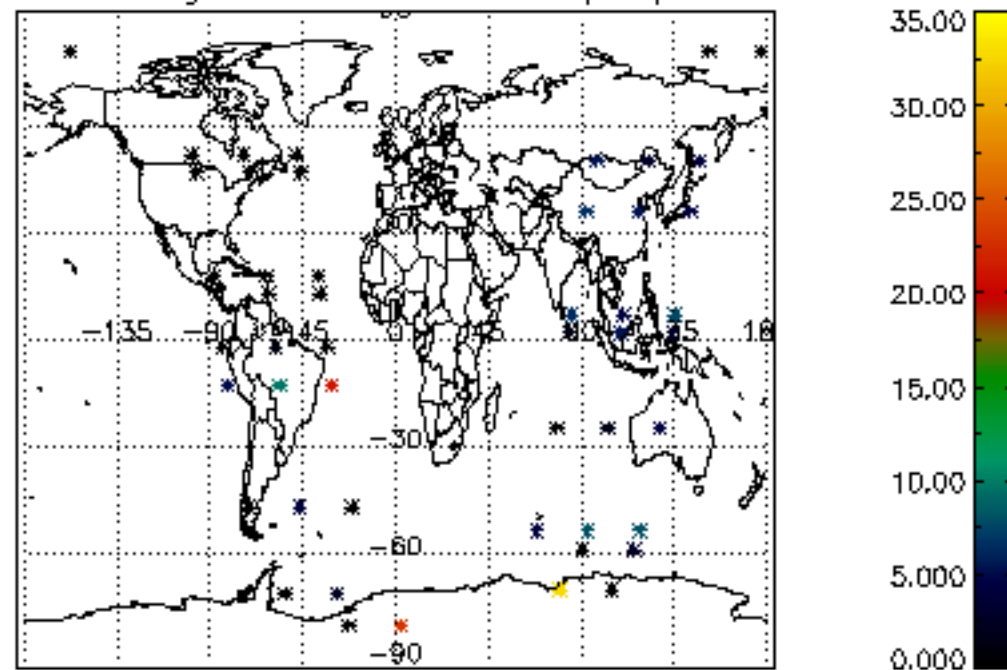
Percentage of datation errors per profile



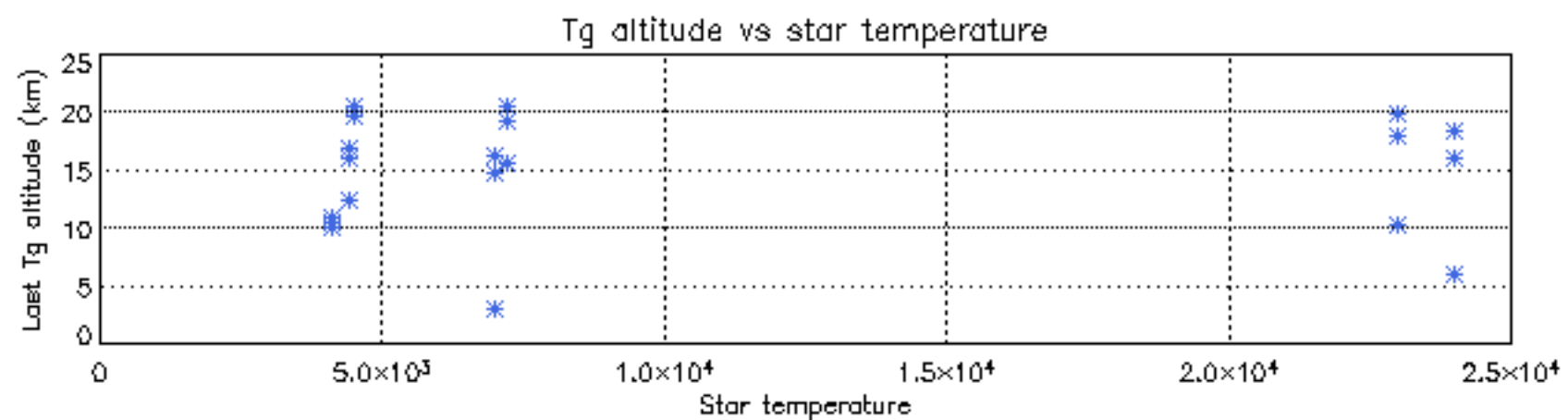
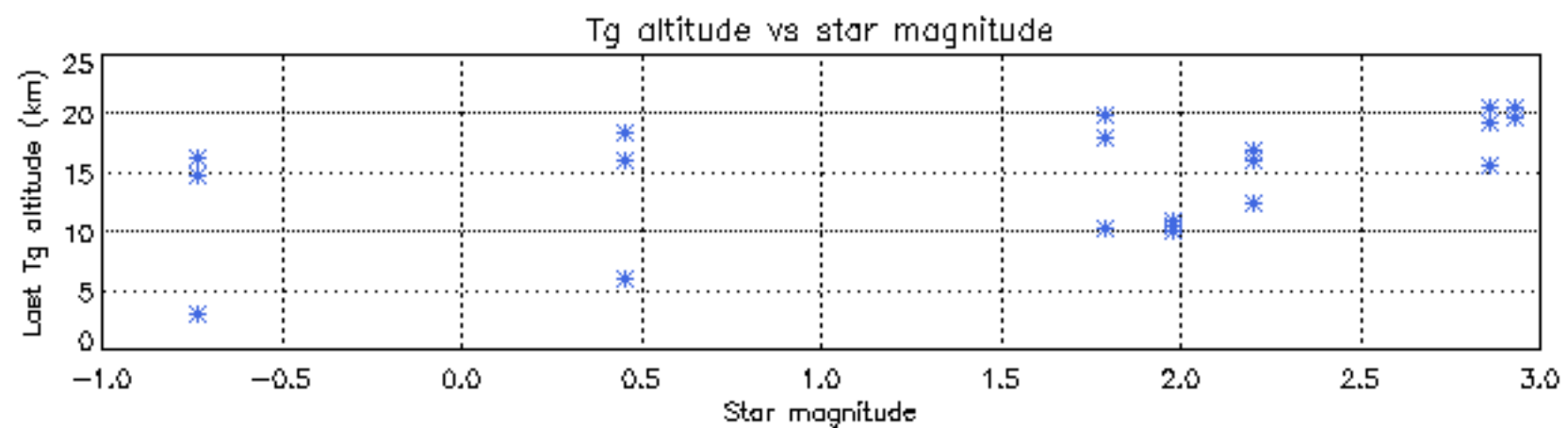
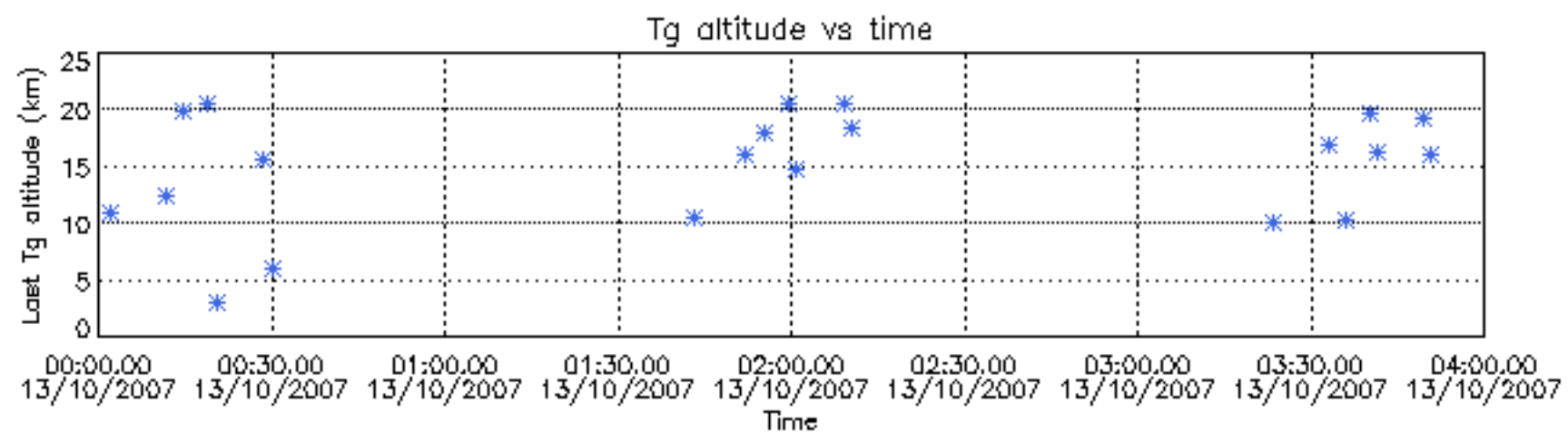
Percentage of star falling outside central band per profile



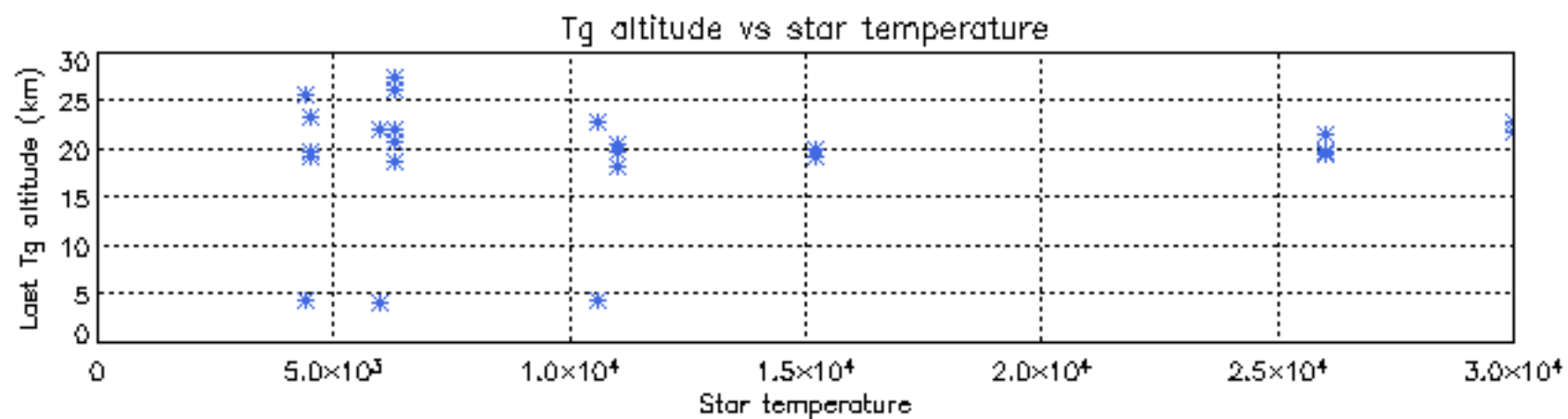
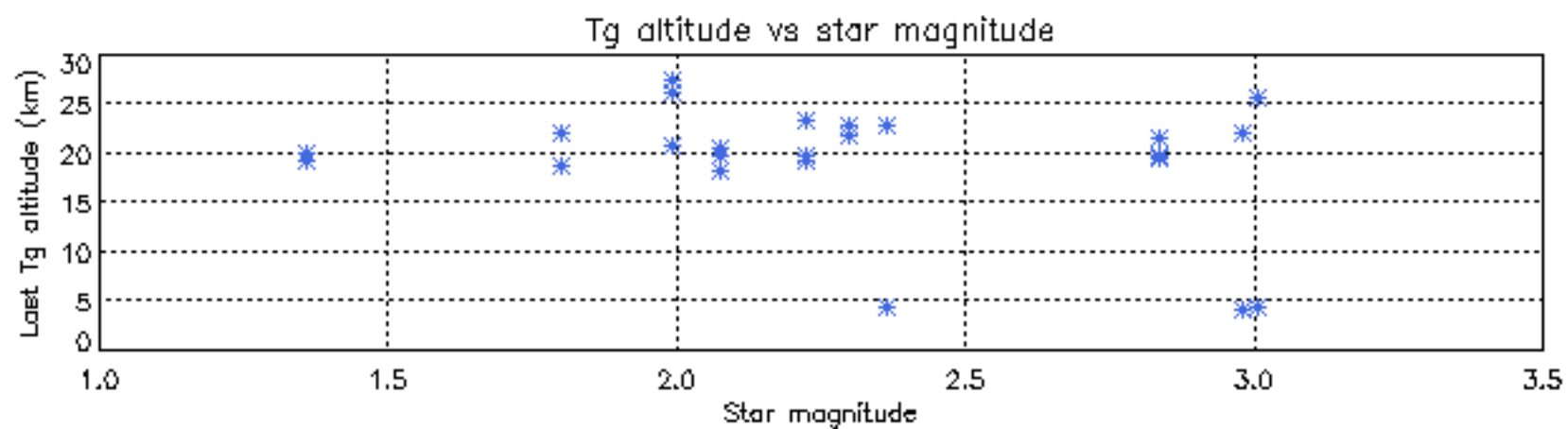
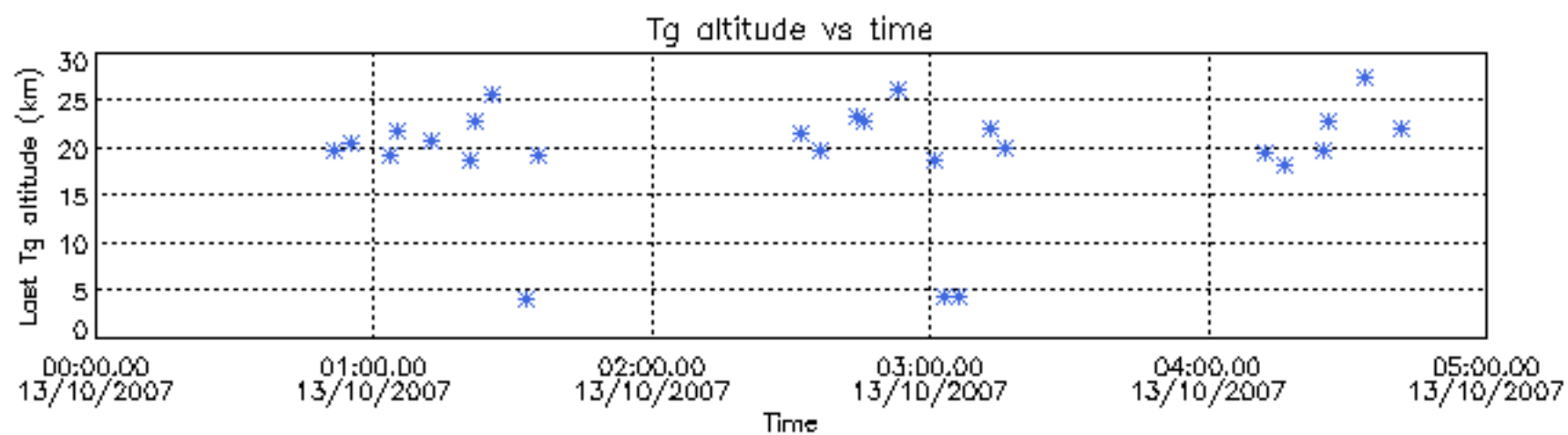
Percentage of saturation errors per profile

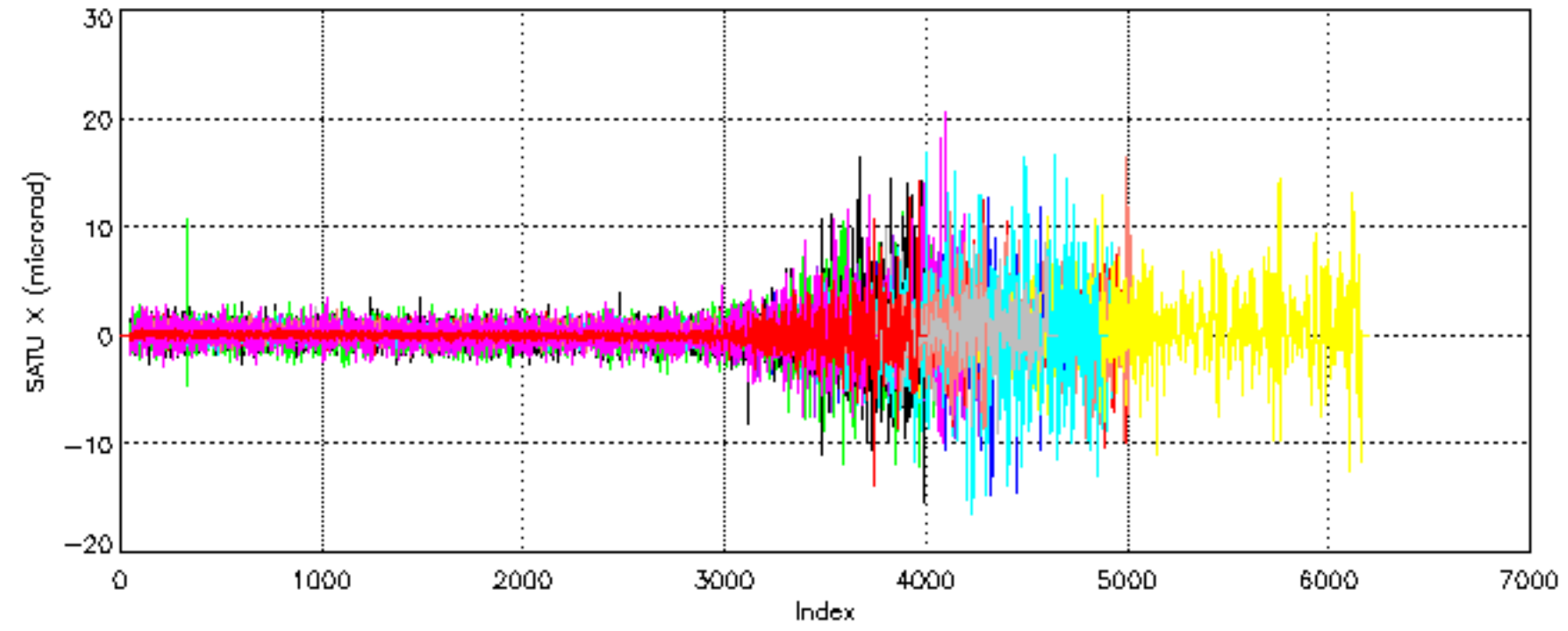


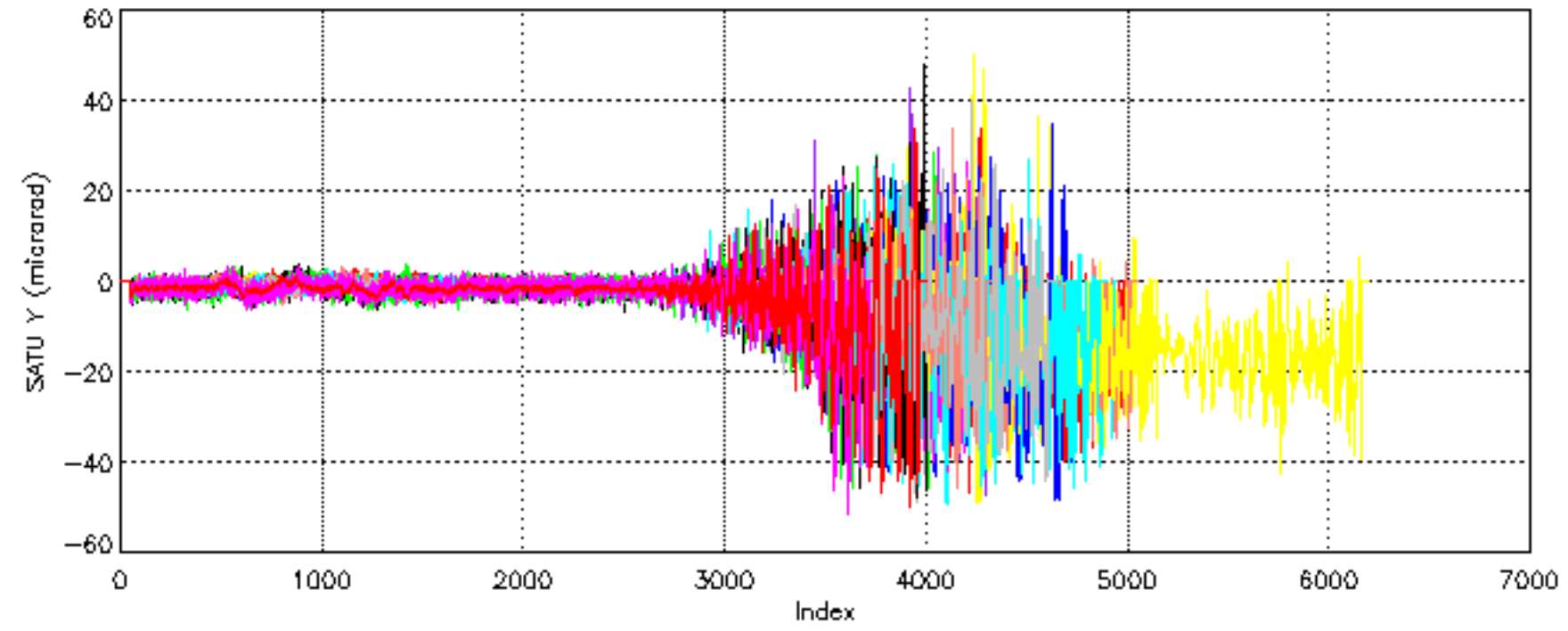
Tangent altitude at which the star is lost

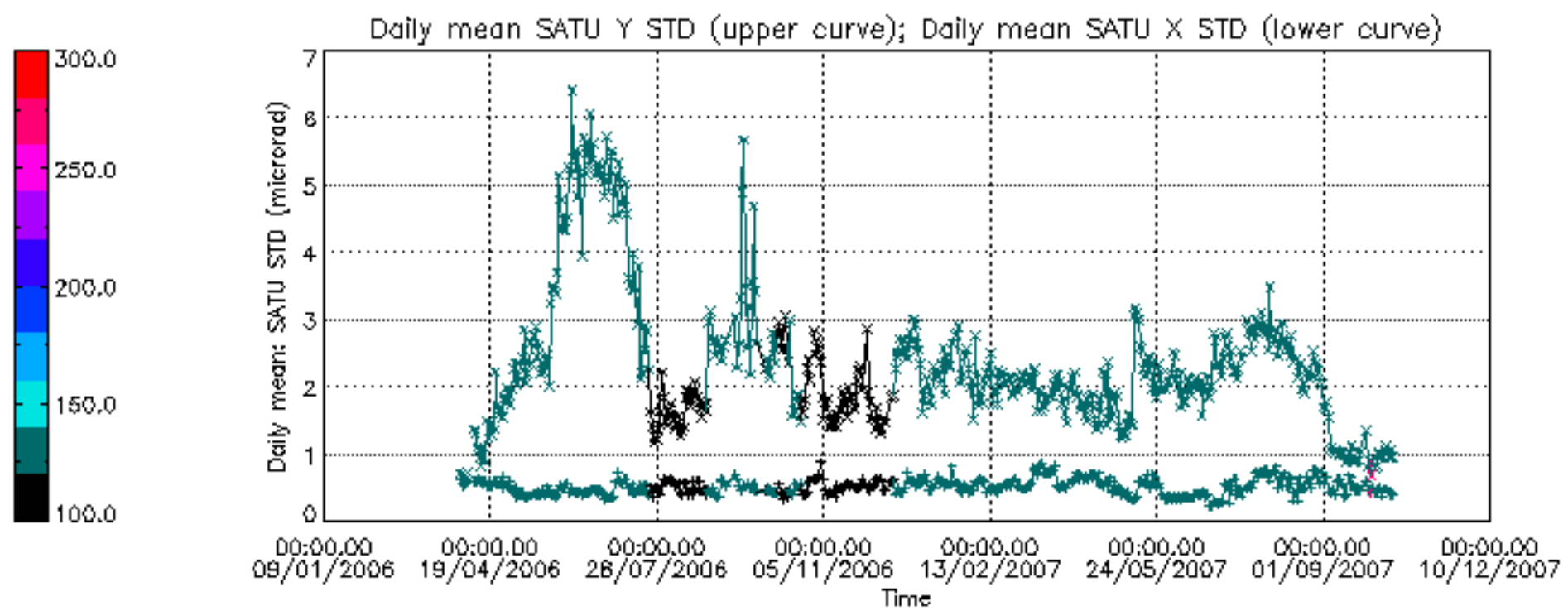


Tangent altitude at which the star is lost









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 3; -142.0; 01-OCT-2007 01:29:52; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29200
 4; 82.2; 01-OCT-2007 01:33:36; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29201
 5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201
 6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201
 7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201
 8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201
 9; 2167.3; 01-OCT-2007 02:08:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29201
 10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201
 11; 2952.9; 01-OCT-2007 02:21:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29201
 12; 3428.6; 01-OCT-2007 02:29:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29201

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 2; -2041.1; 01-OCT-2007 02:38:49; Bright; 32.5; 82; 48Bet UMA ; 2.37; 10600;occ; 65; 0;29201
 3; -1449.1; 01-OCT-2007 02:48:40; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;29201
 4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201
 5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201
 6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201
 7; 83.0; 01-OCT-2007 03:14:13; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29202
 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202
 9; 730.2; 01-OCT-2007 03:25:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29202
 10; 817.9; 01-OCT-2007 03:26:28; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29202
 11; 1140.1; 01-OCT-2007 03:31:50; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29202
 12; 2167.6; 01-OCT-2007 03:48:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29202
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 6; -295.5; 01-OCT-2007 04:48:30; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29202
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 8; -44.7; 01-OCT-2007 04:52:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29202
 9; 83.7; 01-OCT-2007 04:54:49; Dark ; 45.5; 161; Tau Pup ; 2.93; 4500;occ; 91; 0;29203
 10; 168.0; 01-OCT-2007 04:56:14; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29203
 11; 730.6; 01-OCT-2007 05:05:36; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29203
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 13; 1140.4; 01-OCT-2007 05:12:26; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29203
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 16; 2952.5; 01-OCT-2007 05:42:38; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;29203
 17; 3428.7; 01-OCT-2007 05:50:34; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29203

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 2; 1558.3; 01-OCT-2007 20:24:47; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;29212
 3; 2168.2; 01-OCT-2007 20:34:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29212
 4; 2386.3; 01-OCT-2007 20:38:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29212
 5; 2950.1; 01-OCT-2007 20:47:59; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29212
 6; 3428.5; 01-OCT-2007 20:55:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29212
 7; 3906.1; 01-OCT-2007 21:03:55; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;29212
 8; 3996.4; 01-OCT-2007 21:05:26; Bright; 43.0; 82; 48Bet UMA ; 2.37; 10600;occ; 86; 0;29212
 9; 4588.8; 01-OCT-2007 21:15:18; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29212
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 5; 91.1; 01-OCT-2007 21:40:56; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29213
 6; 175.4; 01-OCT-2007 21:42:20; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29213
 7; 734.4; 01-OCT-2007 21:51:39; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29213
 8; 822.1; 01-OCT-2007 21:53:07; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29213
 9; 1143.1; 01-OCT-2007 21:58:28; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29213

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12; 2386.3; 01-OCT-2007 22:19:11; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29213
13; 2949.8; 01-OCT-2007 22:28:35; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29213
14; 3428.4; 01-OCT-2007 22:36:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29213
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16; 3996.5; 01-OCT-2007 22:46:02; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29213
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 6; 734.8; 01-OCT-2007 23:32:16; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29214
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10; 2168.1; 01-OCT-2007 23:56:09; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29214
11; 2386.4; 01-OCT-2007 23:59:47; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;29214
12; 2949.6; 02-OCT-2007 00:09:10; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29214
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10; 5896.2; 01-OCT-2007 08:12:18; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29204
11; 5992.7; 01-OCT-2007 08:13:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29204
12; 6121.2; 01-OCT-2007 08:16:03; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29204
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16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
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3;-1446.1; 02-OCT-2007 05:38:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29217
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5; -289.8; 02-OCT-2007 05:57:35; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29217
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8; 94.9; 02-OCT-2007 06:04:00; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29218
9; 179.2; 02-OCT-2007 06:05:24; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29218
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11; 824.0; 02-OCT-2007 06:16:09; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29218
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16; 2948.6; 02-OCT-2007 06:51:33; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29218
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3;-1445.9; 02-OCT-2007 07:18:55; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29218
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5; -289.4; 02-OCT-2007 07:38:11; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29218
6; -212.3; 02-OCT-2007 07:39:28; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29218
7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
9; 95.6; 02-OCT-2007 07:44:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29219
10; 179.9; 02-OCT-2007 07:46:01; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29219
11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
12; 824.4; 02-OCT-2007 07:56:45; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
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2; 2168.4; 02-OCT-2007 08:19:09; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29219
3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
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5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29219
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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 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219
 14; 6132.3; 02-OCT-2007 09:25:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;29219
 15; 6216.6; 02-OCT-2007 09:26:37; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;29219
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 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219
 19; 7595.3; 02-OCT-2007 09:49:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29219

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 3; 2948.1; 02-OCT-2007 10:12:45; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29220
 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220
 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220
 6; 3997.4; 02-OCT-2007 10:30:14; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;29220
 7; 4590.4; 02-OCT-2007 10:40:07; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29220
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 9; 5747.3; 02-OCT-2007 10:59:24; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29220
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 11; 5905.1; 02-OCT-2007 11:02:02; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29220
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 13; 6133.0; 02-OCT-2007 11:05:50; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29220
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 15; 6773.3; 02-OCT-2007 11:16:30; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29220
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 17; 7181.3; 02-OCT-2007 11:23:18; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;29220
 18; 7595.4; 02-OCT-2007 11:30:12; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29220

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 3; 2947.8; 02-OCT-2007 11:53:20; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29221
 4; 3428.3; 02-OCT-2007 12:01:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29221
 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221
 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221
 8; 5167.3; 02-OCT-2007 12:30:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29221
 9; 5747.6; 02-OCT-2007 12:40:00; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29221
 10; 5825.6; 02-OCT-2007 12:41:18; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29221
 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221
 12; 6005.3; 02-OCT-2007 12:44:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29221
 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221
 14; 6218.1; 02-OCT-2007 12:47:50; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;29221
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 17; 7181.6; 02-OCT-2007 13:03:54; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29221
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 3; 2386.4; 02-OCT-2007 13:24:35; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29222
 4; 2947.6; 02-OCT-2007 13:33:56; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29222
 5; 3428.3; 02-OCT-2007 13:41:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29222
 6; 3907.2; 02-OCT-2007 13:49:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29222
 7; 3997.5; 02-OCT-2007 13:51:26; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29222
 8; 4590.7; 02-OCT-2007 14:01:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29222
 9; 5167.8; 02-OCT-2007 14:10:56; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;29222
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 16; 6774.2; 02-OCT-2007 14:37:42; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29222
 17; 6861.9; 02-OCT-2007 14:39:10; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29222
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 3; 2169.0; 02-OCT-2007 20:03:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29226
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 8; 3998.0; 02-OCT-2007 20:33:50; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29226
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 12; 2386.4; 02-OCT-2007 21:47:35; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29227
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 16; 3998.0; 02-OCT-2007 22:14:26; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;29227
 17; 4591.7; 02-OCT-2007 22:24:20; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29227
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 5; 186.7; 02-OCT-2007 22:51:31; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29228
 6; 740.1; 02-OCT-2007 23:00:44; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29228
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 14; 3907.8; 02-OCT-2007 23:53:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29228
 15; 3998.2; 02-OCT-2007 23:55:02; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29228
 16; 4591.9; 03-OCT-2007 00:04:56; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29228
 17; 5170.1; 03-OCT-2007 00:14:34; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29228

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 3; 2386.5; 02-OCT-2007 15:05:11; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;29223
 4; 2947.4; 02-OCT-2007 15:14:32; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;29223
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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
 9; 190.7; 03-OCT-2007 07:14:34; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;29233
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 6; 3998.9; 03-OCT-2007 08:18:03; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29233
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 9; 5752.6; 03-OCT-2007 08:47:16; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 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
 12; 6143.0; 03-OCT-2007 08:53:47; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29233
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7; 833.8; 04-OCT-2007 01:51:53; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;29244
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13; 1151.9; 04-OCT-2007 03:37:47; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;29245
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9; 116.1; 04-OCT-2007 05:01:07; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29246
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9; 117.0; 04-OCT-2007 06:41:44; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;29247
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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
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 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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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
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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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 18; 6448.2; 22-OCT-2007 15:44:08; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29509
 19; 6864.8; 22-OCT-2007 15:51:05; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29509
 20; 6950.2; 22-OCT-2007 15:52:30; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29509
 21; 7123.6; 22-OCT-2007 15:55:23; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29509

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 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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 12; 4640.9; 22-OCT-2007 16:54:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29510
 13; 5815.4; 22-OCT-2007 17:14:11; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29510
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 18; 6449.0; 22-OCT-2007 17:24:45; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;29510
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 21; 7124.1; 22-OCT-2007 17:36:00; Dark ; 27.5; 157; The1Eri ; 2.91; 9300;occ; 55; 0;29510

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 3; 2171.8; 22-OCT-2007 17:54:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29511
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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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 16; 5991.5; 22-OCT-2007 18:57:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29511
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 19; 6449.7; 22-OCT-2007 19:05:21; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;29511
 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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 9; 2951.1; 22-OCT-2007 19:47:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29512
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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
 12; 3919.6; 22-OCT-2007 20:03:47; Bright; 53.0; 36; 50Alp UMA ; 1.80; 6300;occ; 106; 0;29512
 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
 15; 4641.3; 22-OCT-2007 20:15:49; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29512
 16; 5815.8; 22-OCT-2007 20:35:24; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 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
 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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 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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 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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 14; 2872.7; 23-OCT-2007 02:28:44; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29516
 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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 5; -1393.8; 23-OCT-2007 02:58:13; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29516
 6; -218.8; 23-OCT-2007 03:17:48; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29516
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 9; 51.5; 23-OCT-2007 03:22:19; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29517
 10; 168.0; 23-OCT-2007 03:24:15; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29517
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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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 19; 2872.8; 23-OCT-2007 04:09:20; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 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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15; 6025.5; 26-OCT-2007 08:28:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29562
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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
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
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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 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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 17; 6218.0; 26-OCT-2007 11:53:14; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;29564
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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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 4; 2521.5; 26-OCT-2007 17:34:01; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29568
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 11; 2520.9; 26-OCT-2007 22:35:48; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29571
 12; 2868.9; 26-OCT-2007 22:41:36; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 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; 184.5; 27-OCT-2007 01:18:04; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29573
 5; 844.0; 27-OCT-2007 01:29:03; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 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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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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16; 2868.8; 27-OCT-2007 05:24:00; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29575
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