

GOMOS Daily Report 23-SEP-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	25SEP2007 13:13:32
Data source version	GOMOS/5.00
Start time of products	23-09-2007 (23SEP2007 00:00:00)
Stop time of products	24-09-2007 (24SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

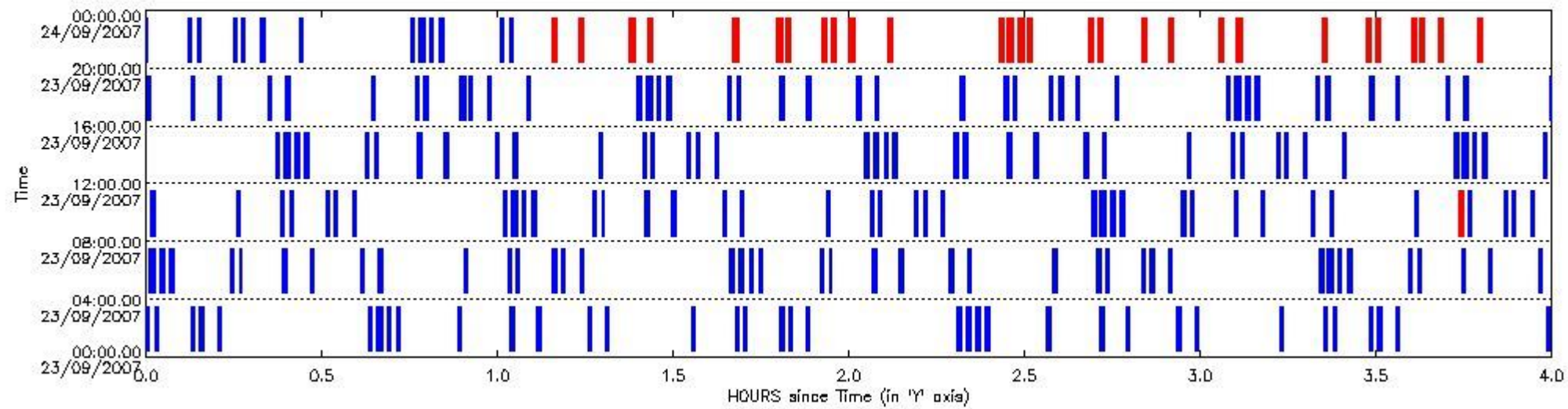
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
23-SEP-2007 11:44:05	1AlpUMi	49	29092
23-SEP-2007 21:09:17	BetGru	63	29098
23-SEP-2007 21:13:52	24AlpPsA	18	29098
23-SEP-2007 21:22:31	34AlpAqr	162	29098
23-SEP-2007 21:25:35	8EpsPeg	61	29098
23-SEP-2007 21:40:12	5AlpCep	89	29098
23-SEP-2007 21:47:40	1AlpUMi	49	29098
23-SEP-2007 21:49:11	7BetUMi	60	29098
23-SEP-2007 21:55:21	50AlpUMa	36	29098
23-SEP-2007 21:56:50	48BetUMa	82	29098
23-SEP-2007 21:59:58	52PsiUMa	174	29098
23-SEP-2007 22:06:38	17EpsLeo	166	29098
23-SEP-2007 22:25:37	LamVel	65	29098
23-SEP-2007 22:27:04	DSA1030	0	29098
23-SEP-2007 22:28:55	DelVel	46	29098

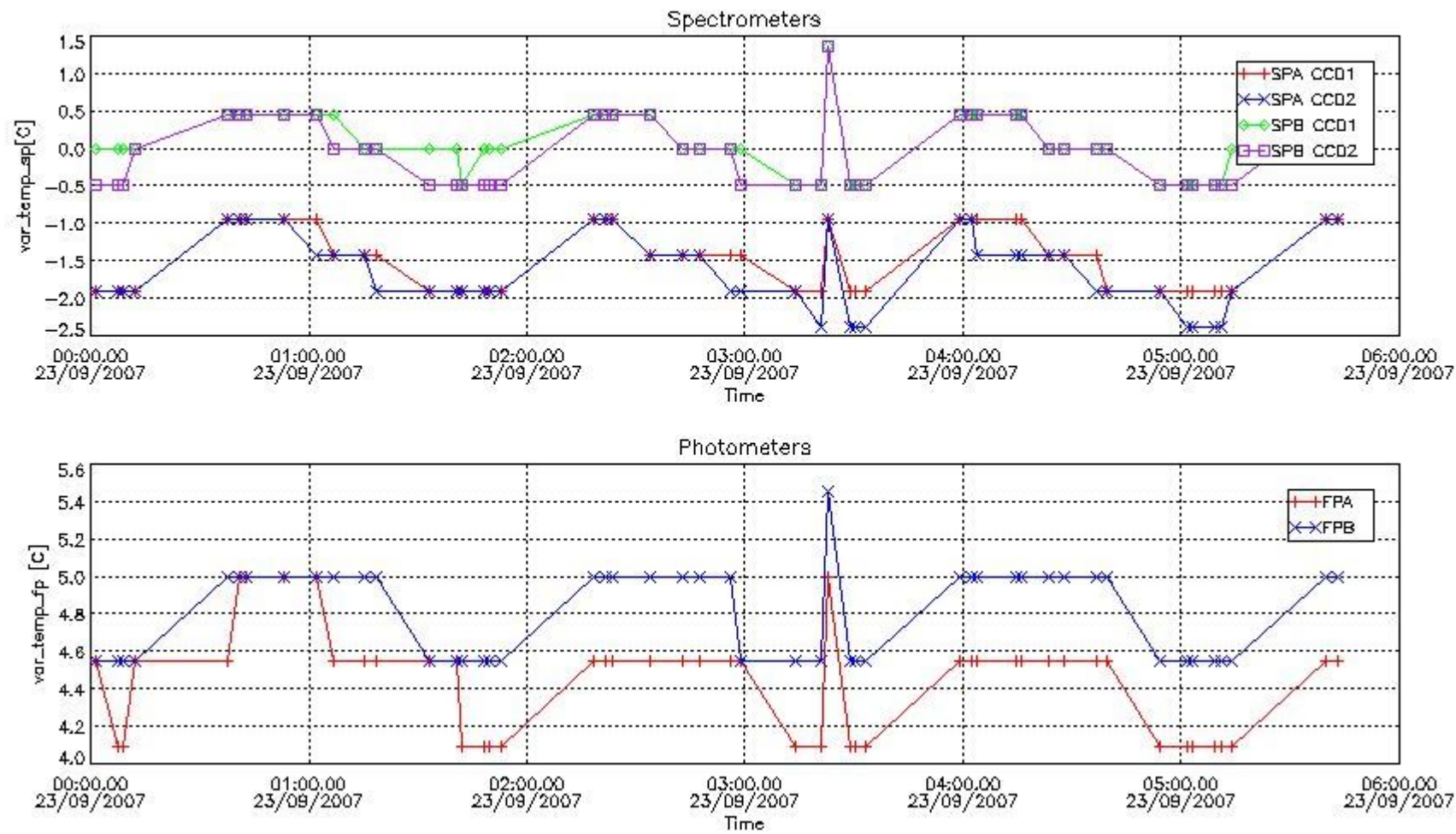
23-SEP-2007 22:30:30	EpsCar	41	29098
23-SEP-2007 22:40:55	BetHyi	135	29099
23-SEP-2007 22:42:34	AlpHyi	143	29099
23-SEP-2007 22:49:53	BetGru	63	29099
23-SEP-2007 22:54:28	24AlpPsA	18	29099
23-SEP-2007 23:03:07	34AlpAqr	162	29099
23-SEP-2007 23:06:11	8EpsPeg	61	29099
23-SEP-2007 23:20:48	5AlpCep	89	29099
23-SEP-2007 23:28:16	1AlpUMi	49	29099
23-SEP-2007 23:29:47	7BetUMi	60	29099
23-SEP-2007 23:35:57	50AlpUMa	36	29099
23-SEP-2007 23:37:26	48BetUMa	82	29099
23-SEP-2007 23:40:35	52PsiUMa	174	29099
23-SEP-2007 23:47:14	17EpsLeo	166	29099

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_1PNPDE20070923_000123_000000342061_00474_29085_8461.N1	23-SEP-2007 00:01:23	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	29085	No
2	GOM_TRA_1PNPDE20070923_000735_000000372061_00474_29085_8462.N1	23-SEP-2007 00:07:35	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29085	No
3	GOM_TRA_1PNPDE20070923_000903_000000522061_00474_29085_8463.N1	23-SEP-2007 00:09:03	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29085	No
4	GOM_TRA_1PNPDE20070923_001211_000000332061_00474_29085_8464.N1	23-SEP-2007 00:12:11	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	29085	No
5	GOM_TRA_1PNPDE20070923_003749_000000402061_00474_29085_8610.N1	23-SEP-2007 00:37:49	Dark	40.000	65	Lam Vel	2.2040	4400.0	80	29085	No
6	GOM_TRA_1PNPDE20070923_004108_000000412061_00474_29085_8611.N1	23-SEP-2007 00:41:08	Dark	41.000	46	Del Vel	1.9540	10600.	82	29085	No
7	GOM_TRA_1PNPDE20070923_004242_000000402061_00474_29085_8612.N1	23-SEP-2007 00:42:42	Dark	40.000	41	Eps Car	1.8600	4100.0	80	29085	No
8	GOM_TRA_1PNPDE20070923_005309_000000372061_00475_29086_8613.N1	23-SEP-2007 00:53:09	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	29086	No
9	GOM_TRA_1PNPDE20070923_010206_000000442061_00475_29086_8614.N1	23-SEP-2007 01:02:06	Straylight	43.500	63	Bet Gru	2.1500	2800.0	87	29086	No
10	GOM_TRA_1PNPDE20070923_010641_000000422061_00475_29086_8615.N1	23-SEP-2007 01:06:41	Straylight	41.500	18	24Alp PsA	1.1660	9700.0	83	29086	No
11	GOM_TRA_1PNPDE20070923_011521_000000382061_00475_29086_8616.N1	23-SEP-2007 01:15:21	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	29086	No
12	GOM_TRA_1PNPDE20070923_011824_000000392061_00475_29086_8617.N1	23-SEP-2007 01:18:24	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	29086	No
13	GOM_TRA_1PNPDE20070923_013302_000000362061_00475_29086_8618.N1	23-SEP-2007 01:33:02	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29086	No
14	GOM_TRA_1PNPDE20070923_014032_000000362061_00475_29086_8619.N1	23-SEP-2007 01:40:32	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29086	No
15	GOM_TRA_1PNPDE20070923_014159_000000372061_00475_29086_8620.N1	23-SEP-2007 01:41:59	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29086	No
16	GOM_TRA_1PNPDE20070923_014811_000000372061_00475_29086_8621.N1	23-SEP-2007 01:48:11	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29086	No
17	GOM_TRA_1PNPDE20070923_014939_000000342061_00475_29086_8622.N1	23-SEP-2007 01:49:39	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	29086	No
18	GOM_TRA_1PNPDE20070923_015247_000000332061_00475_29086_8623.N1	23-SEP-2007 01:52:47	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	29086	No
19	GOM_TRA_1PNPDE20070923_021825_000000432061_00475_29086_8745.N1	23-SEP-2007 02:18:25	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	29086	No
20	GOM_TRA_1PNPDE20070923_022144_000000372061_00475_29086_8746.N1	23-SEP-2007 02:21:44	Dark	37.000	46	Del Vel	1.9540	10600.	74	29086	No
21	GOM_TRA_1PNPDE20070923_022318_000000382061_00475_29086_8747.N1	23-SEP-2007 02:23:18	Dark	37.500	41	Eps Car	1.8600	4100.0	75	29086	No
22	GOM_TRA_1PNPDE20070923_023345_000000392061_00476_29087_8748.N1	23-SEP-2007 02:33:45	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	29087	No
23	GOM_TRA_1PNPDE20070923_024242_000000522061_00476_29087_8749.N1	23-SEP-2007 02:42:42	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	29087	No
24	GOM_TRA_1PNPDE20070923_024717_000000412061_00476_29087_8750.N1	23-SEP-2007 02:47:17	Straylight	40.500	18	24Alp PsA	1.1660	9700.0	81	29087	No
25	GOM_TRA_1PNPDE20070923_025557_000000372061_00476_29087_8751.N1	23-SEP-2007 02:55:57	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	29087	No
26	GOM_TRA_1PNPDE20070923_025900_000000392061_00476_29087_8752.N1	23-SEP-2007 02:59:00	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	29087	No
27	GOM_TRA_1PNPDE20070923_031338_000000362061_00476_29087_8753.N1	23-SEP-2007 03:13:38	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29087	No
28	GOM_TRA_1PNPDE20070923_032108_000000332061_00476_29087_8754.N1	23-SEP-2007 03:21:08	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29087	No
29	GOM_TRA_1PNPDE20070923_032235_000000362061_00476_29087_8890.N1	23-SEP-2007 03:22:35	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29087	Yes
30	GOM_TRA_1PNPDE20070923_032847_000000372061_00476_29087_8891.N1	23-SEP-2007 03:28:47	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29087	No
31	GOM_TRA_1PNPDE20070923_033015_000000522061_00476_29087_8892.N1	23-SEP-2007 03:30:15	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29087	No
32	GOM_TRA_1PNPDE20070923_033324_000000342061_00476_29087_8893.N1	23-SEP-2007 03:33:24	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	29087	No
33	GOM_TRA_1PNPDE20070923_035902_000000432061_00476_29087_8894.N1	23-SEP-2007 03:59:02	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	29087	No
34	GOM_TRA_1PNPDE20070923_040220_000000392061_00476_29087_8895.N1	23-SEP-2007 04:02:20	Dark	38.500	46	Del Vel	1.9540	10600.	77	29087	No
35	GOM_TRA_1PNPDE20070923_040354_000000492061_00476_29087_8896.N1	23-SEP-2007 04:03:54	Dark	49.000	41	Eps Car	1.8600	4100.0	98	29087	No
36	GOM_TRA_1PNPDE20070923_041421_000000392061_00477_29088_8897.N1	23-SEP-2007 04:14:21	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	29088	No
37	GOM_TRA_1PNPDE20070923_041557_000000252061_00477_29088_8898.N1	23-SEP-2007 04:15:57	Dark	25.000	143	Alp Hyi	2.8570	7200.0	50	29088	No
38	GOM_TRA_1PNPDE20070923_042319_000000502061_00477_29088_8899.N1	23-SEP-2007 04:23:19	Straylight	49.500	63	Bet Gru	2.1500	2800.0	99	29088	No
39	GOM_TRA_1PNPDE20070923_042754_000000412061_00477_29088_8900.N1	23-SEP-2007 04:27:54	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	29088	No
40	GOM_TRA_1PNPDE20070923_043633_000000372061_00477_29088_8901.N1	23-SEP-2007 04:36:33	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	29088	No

41	GOM_TRA_1PNPDE20070923_043937_000000372061_00477_29088_8902.N1	23-SEP-2007 04:39:37	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	29088	No
42	GOM_TRA_1PNPDE20070923_045415_000000362061_00477_29088_8903.N1	23-SEP-2007 04:54:15	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	29088	No
43	GOM_TRA_1PNPDE20070923_050144_000000362061_00477_29088_8904.N1	23-SEP-2007 05:01:44	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29088	No
44	GOM_TRA_1PNPDE20070923_050312_000000352061_00477_29088_8905.N1	23-SEP-2007 05:03:12	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	29088	No
45	GOM_TRA_1PNPDE20070923_050923_000000352061_00477_29088_9052.N1	23-SEP-2007 05:09:23	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	29088	No
46	GOM_TRA_1PNPDE20070923_051052_000000412061_00477_29088_9053.N1	23-SEP-2007 05:10:52	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	29088	No
47	GOM_TRA_1PNPDE20070923_051400_000000342061_00477_29088_9054.N1	23-SEP-2007 05:14:00	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	29088	No
48	GOM_TRA_1PNPDE20070923_053938_000000412061_00477_29088_9055.N1	23-SEP-2007 05:39:38	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	29088	No
49	GOM_TRA_1PNPDE20070923_054256_000000402061_00477_29088_9056.N1	23-SEP-2007 05:42:56	Dark	40.000	46	Del Vel	1.9540	10600.	80	29088	No

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



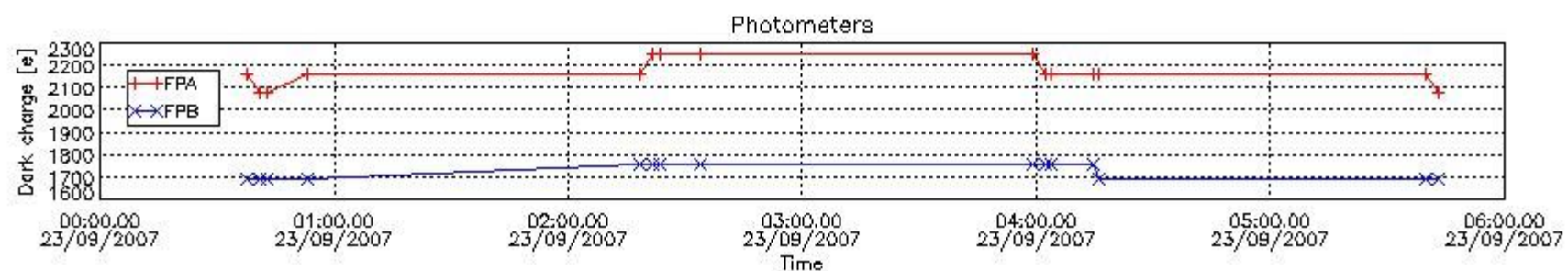
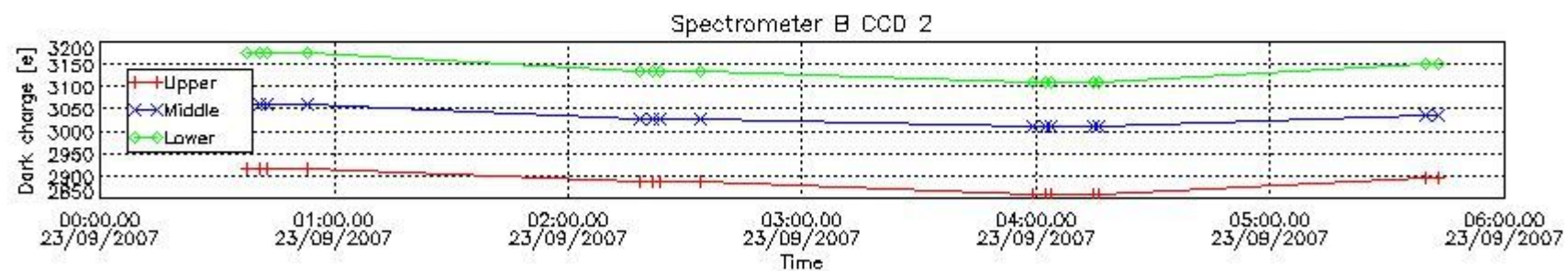
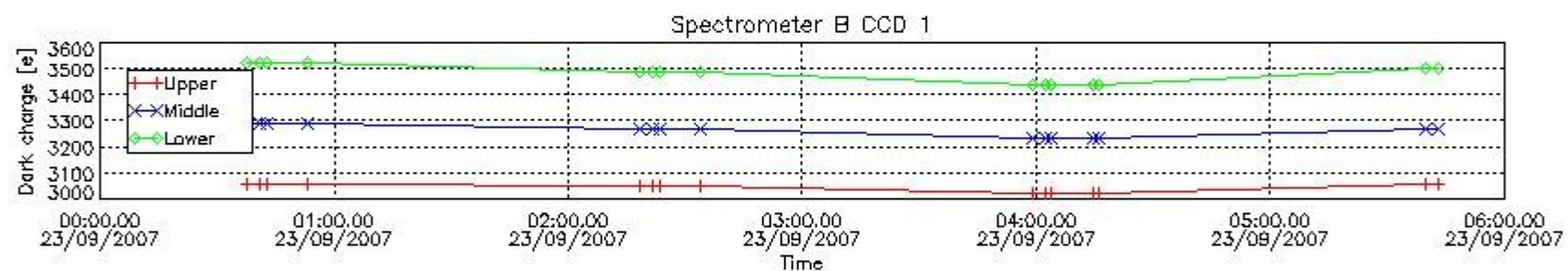
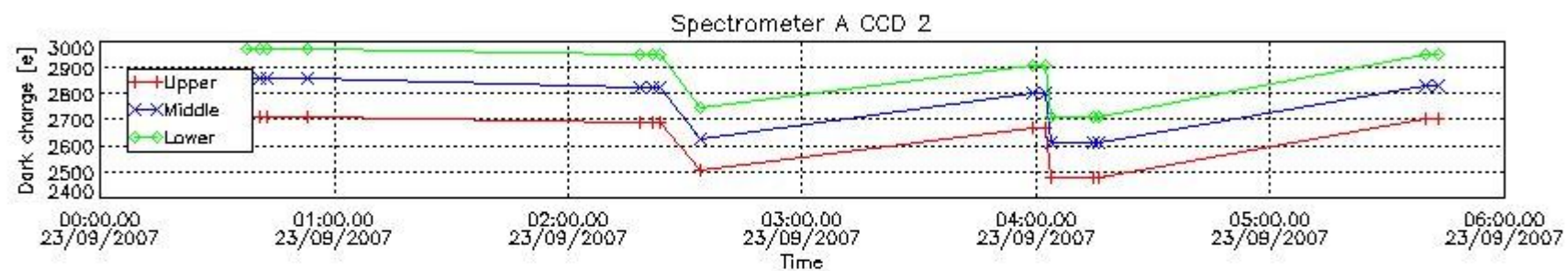
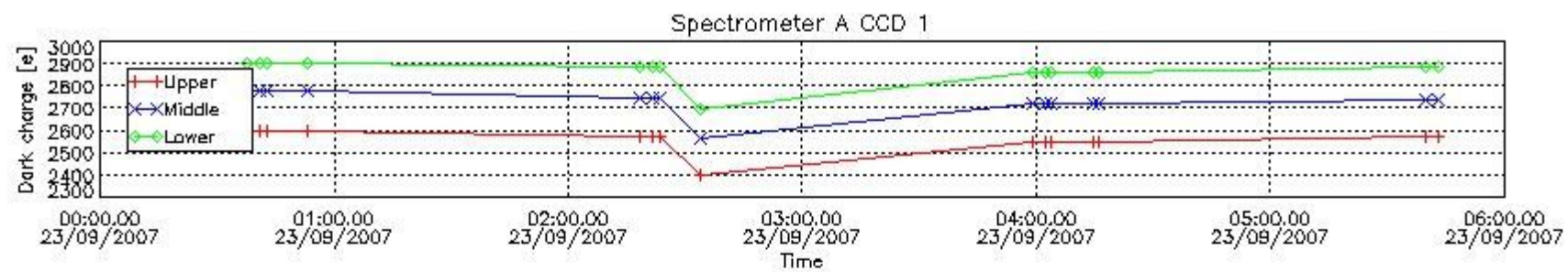
4. Overview of dark signal processing per product

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



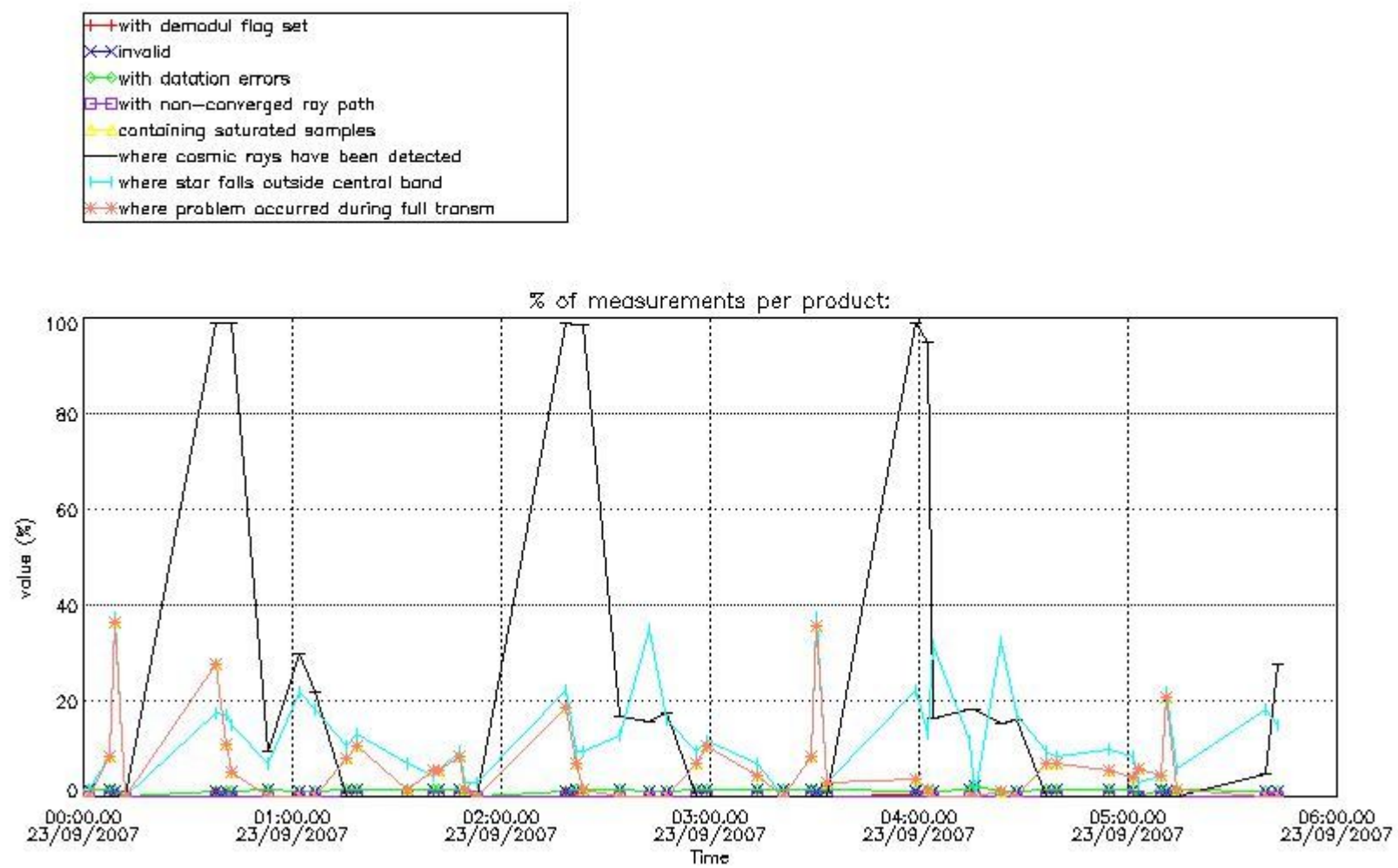
5. Demodulation flag and quality information monitoring

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.

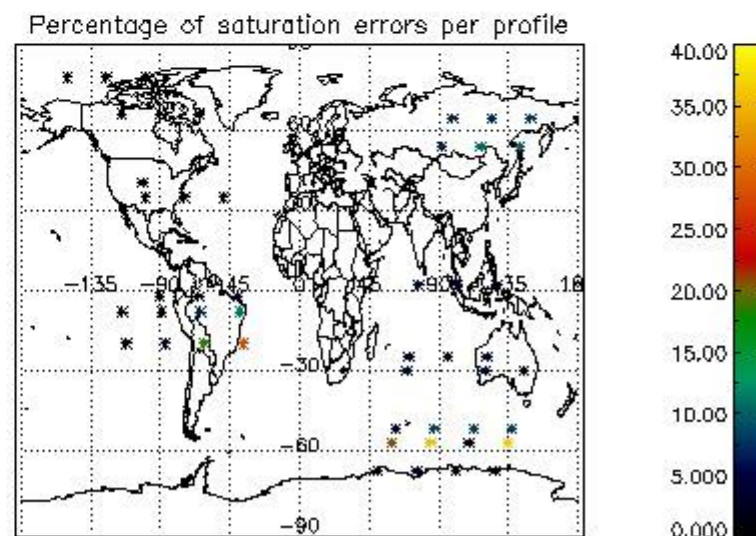
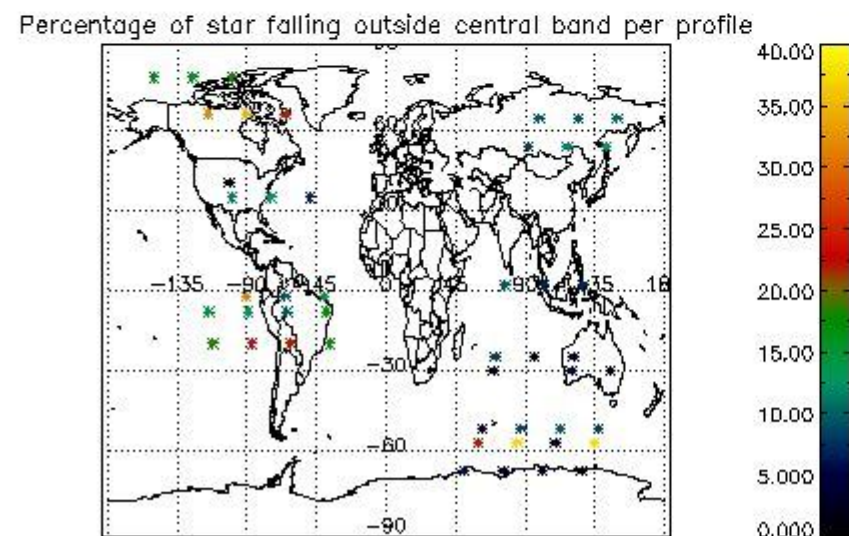
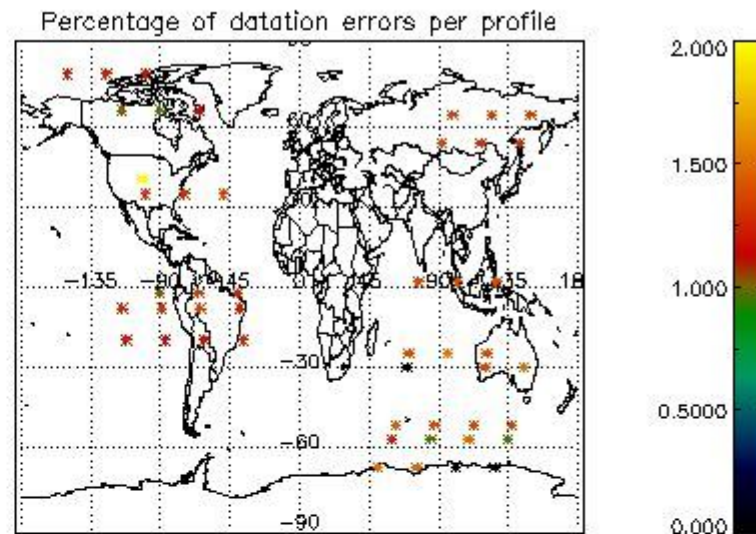
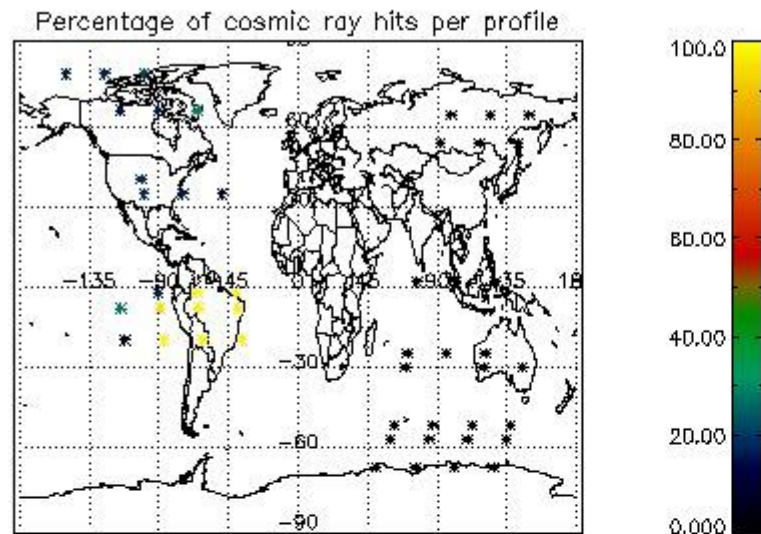
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.8333 %
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)



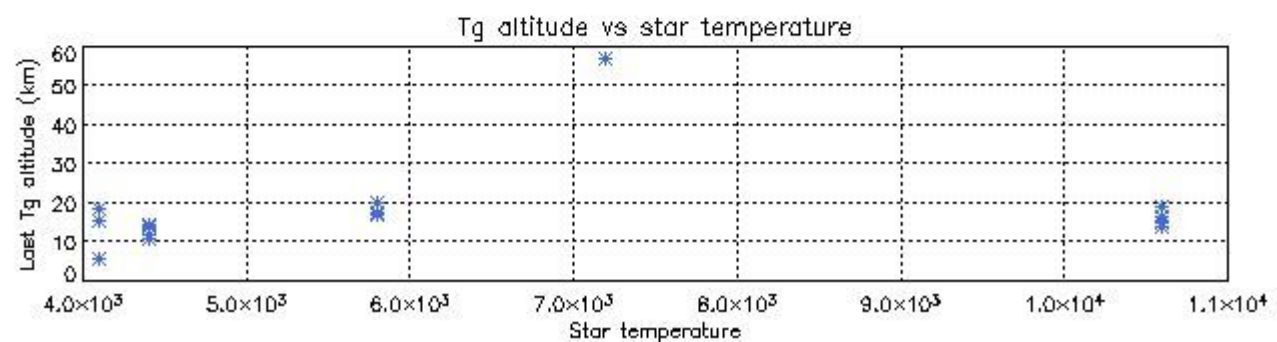
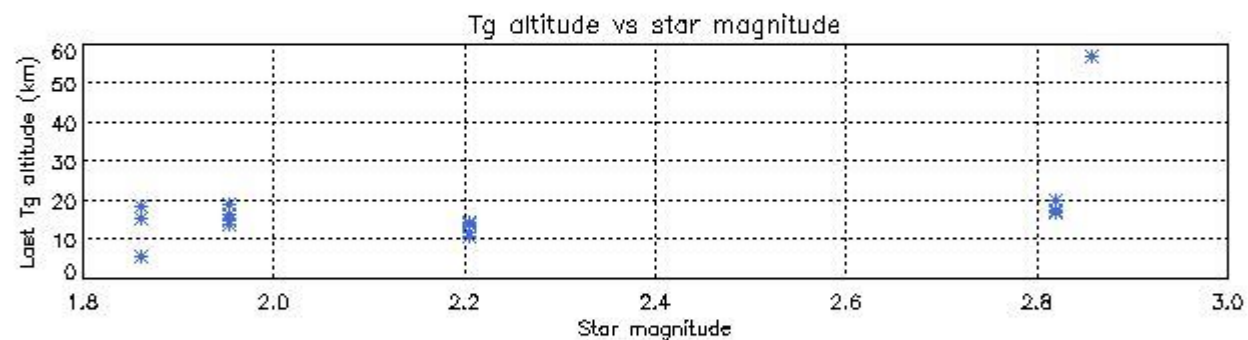
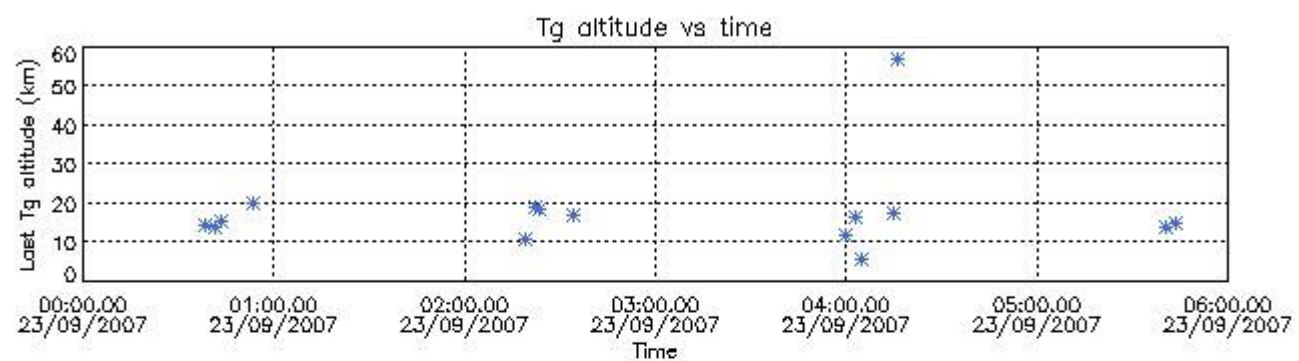
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.658	20.127	NaN
St. deviation:	11.393	6.2687	NaN
Maximum:	56.704	29.024	NaN
Minimum:	5.6063	3.4277	NaN
Number of data:	15.000	27.000	NaN

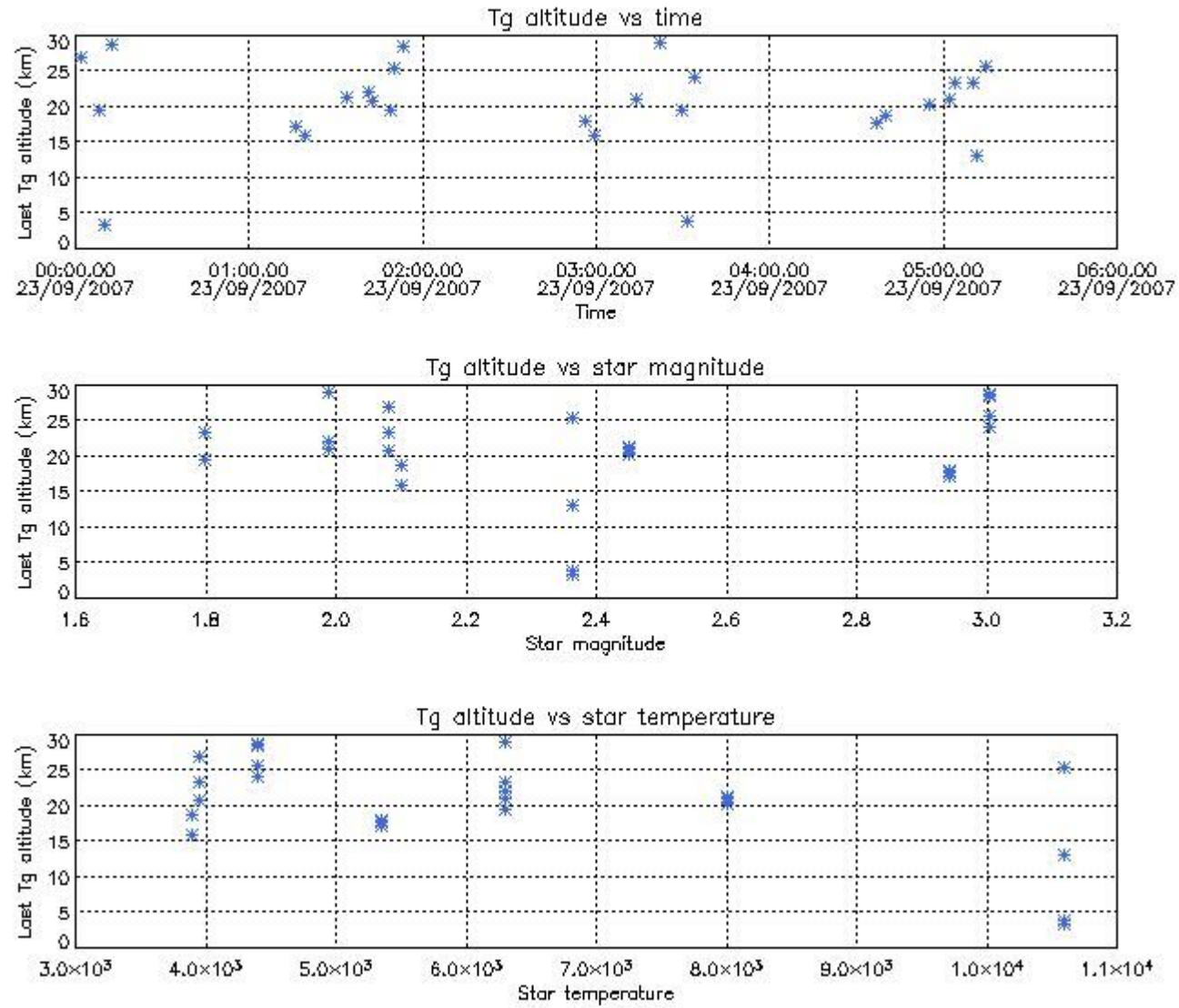
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

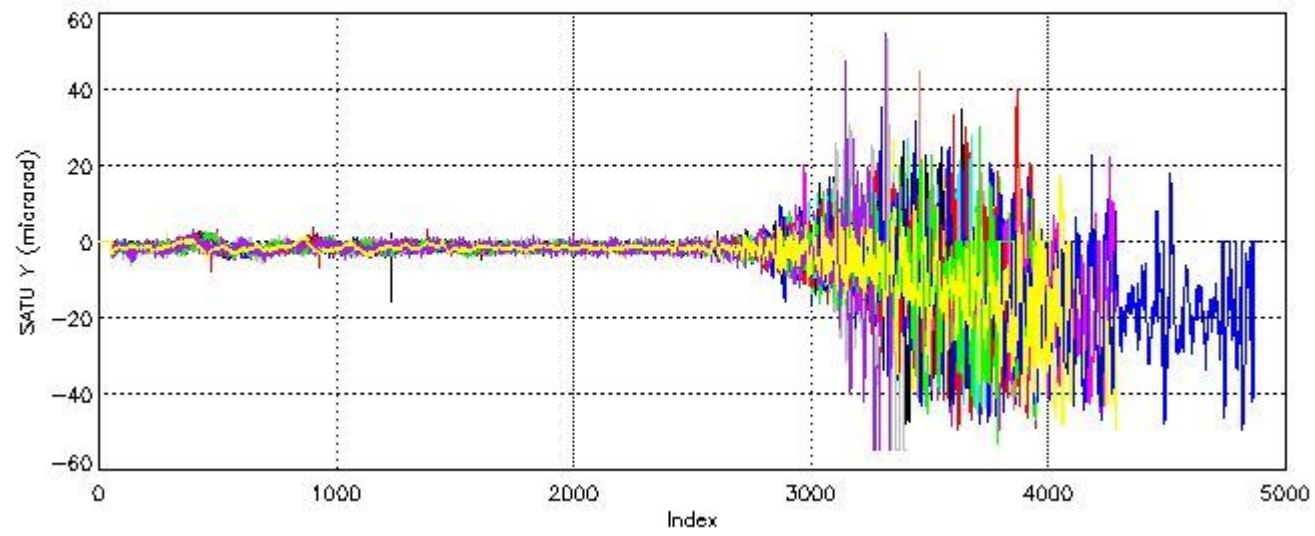
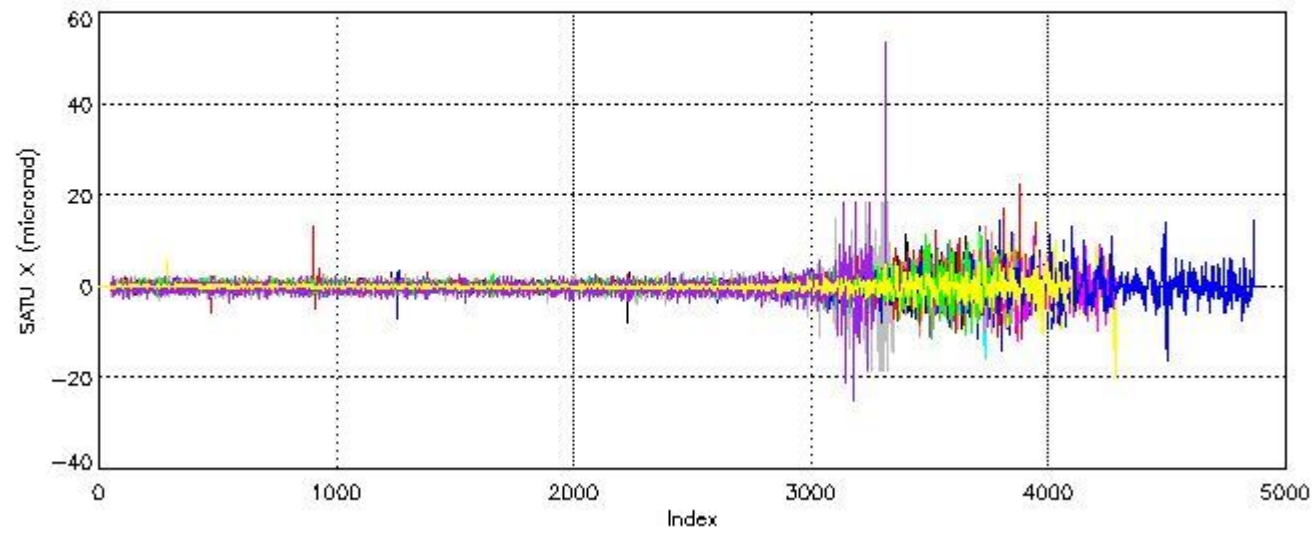


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.030254	-1.4864	-0.14061	-1.4107
St. deviation:	0.45310	1.0394	0.65582	1.1716
Maximum:	5.6000	3.1000	3.6000	3.9000
Minimum:	-5.6000	-8.0000	-4.6000	-6.4000

Number of data:	12800.	12800.	22500.	22500.
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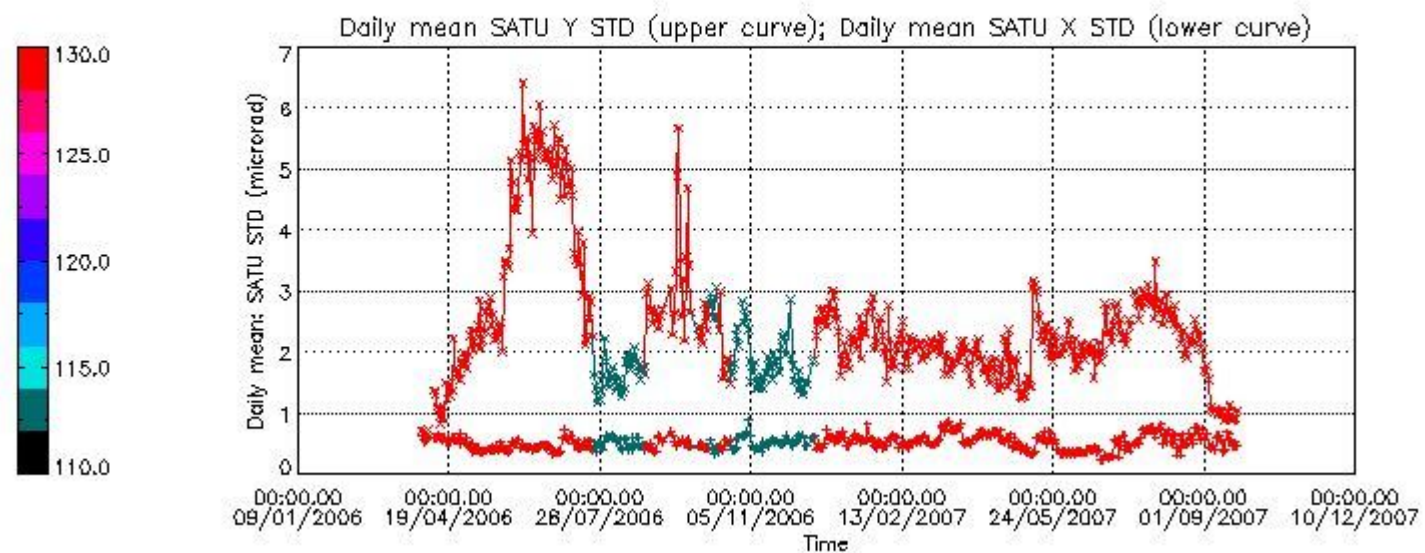
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

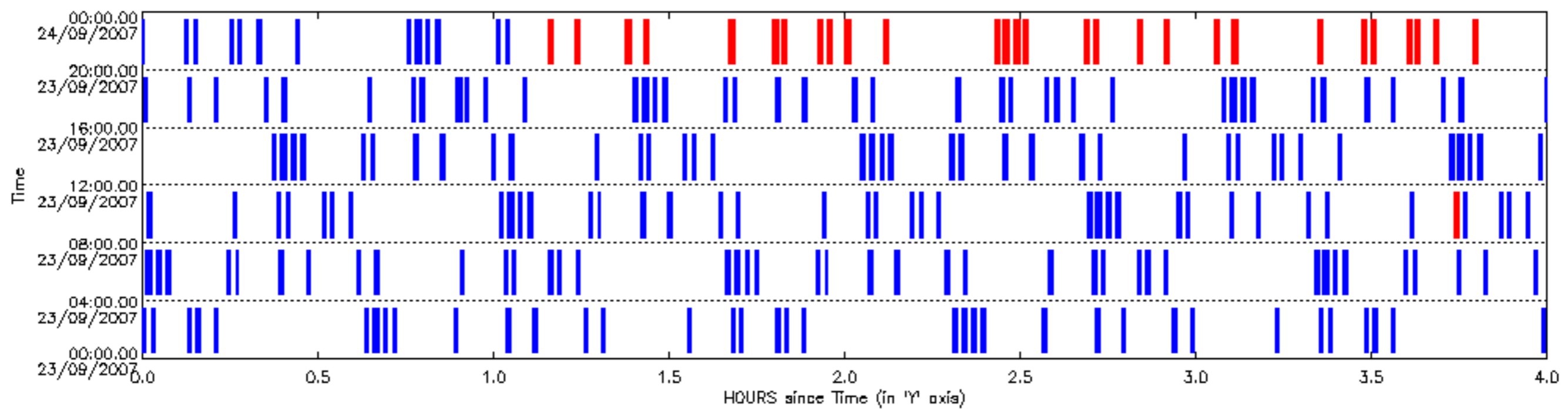
Lower curve: STD of SATU X axis

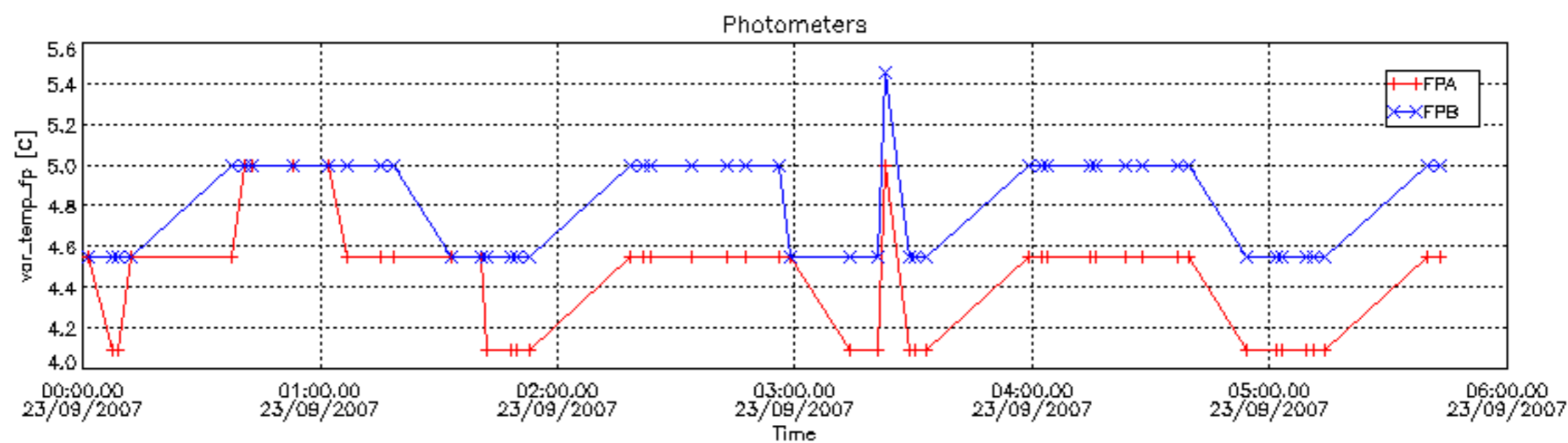
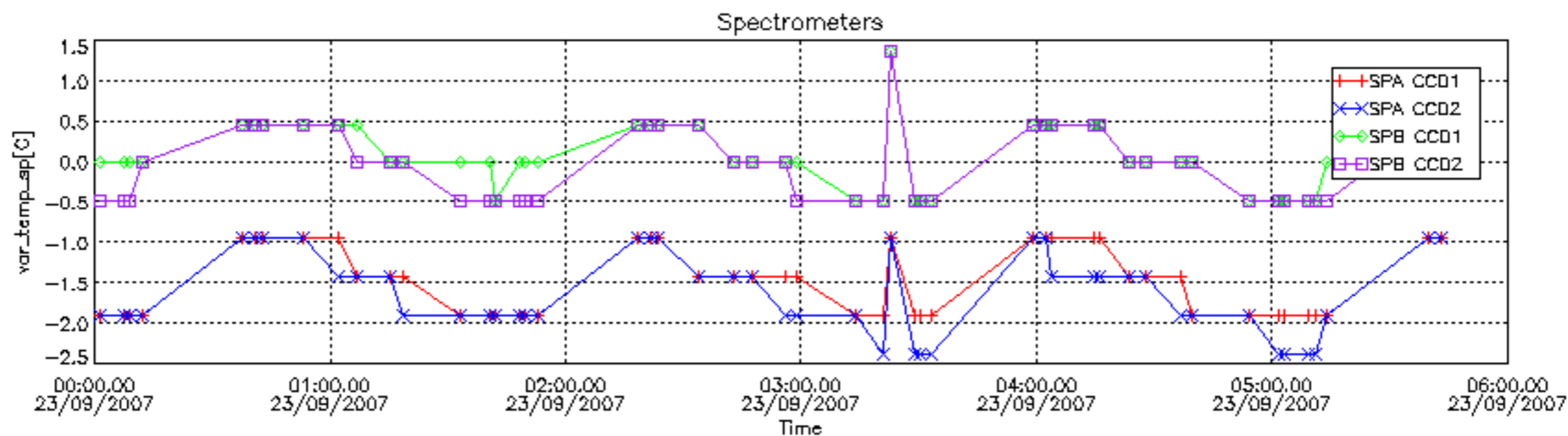


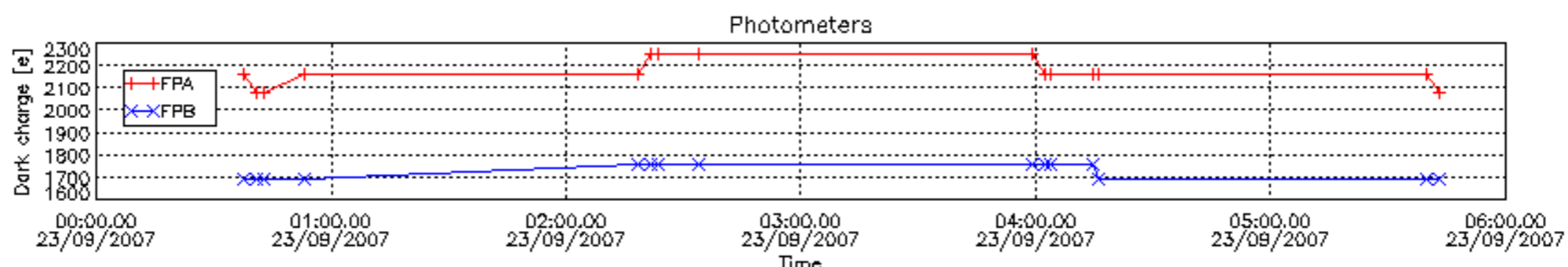
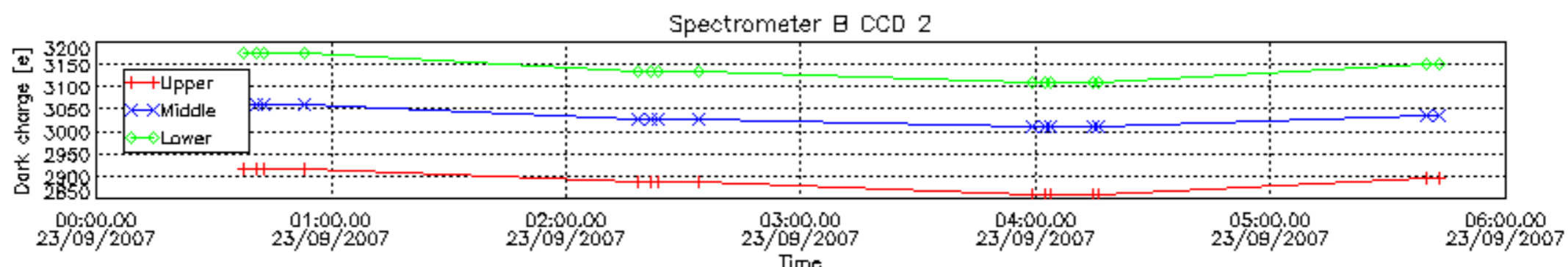
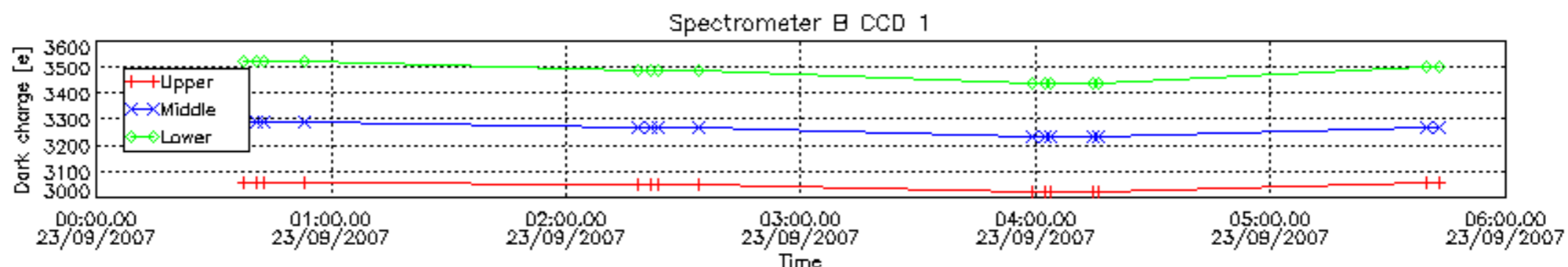
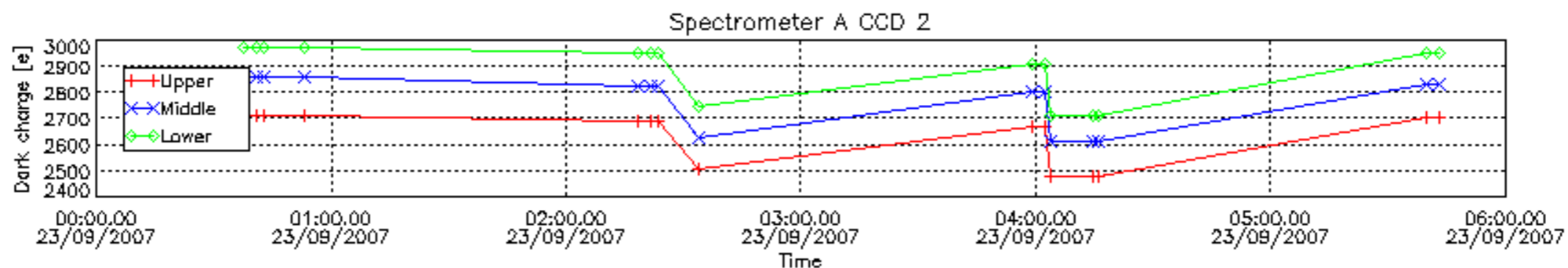
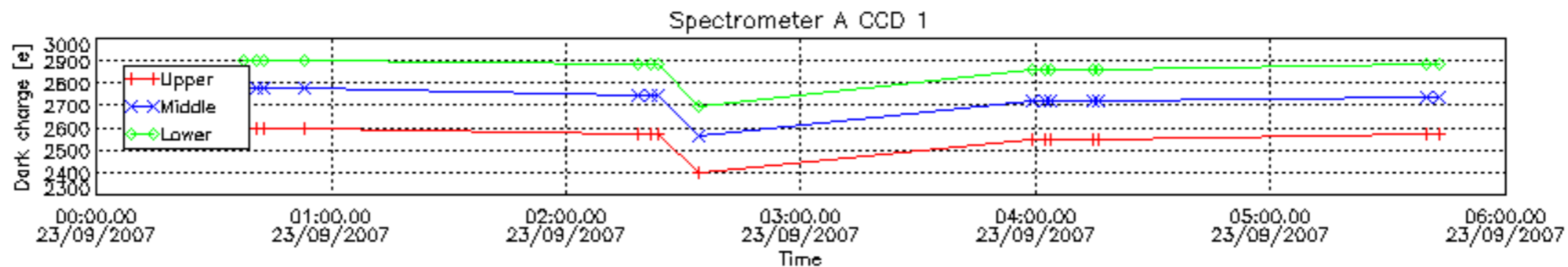
8. Auxiliary Data Files used for the production reported in section 2.4

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.

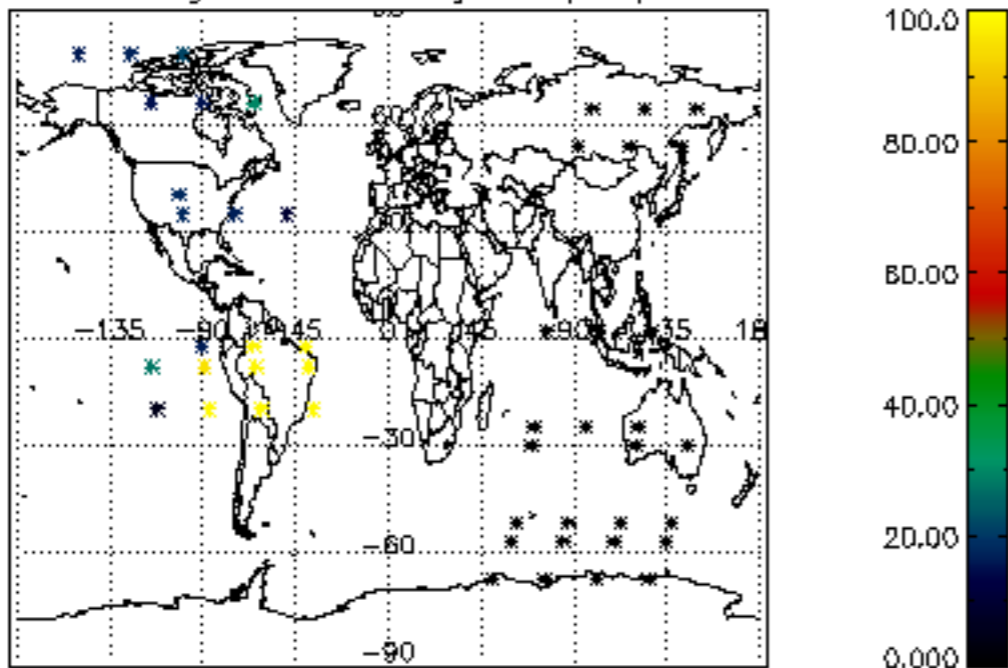
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-SEP-2007 00:01:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	23-SEP-2007 00:01:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-SEP-2007 00:01:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-SEP-2007 00:01:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-SEP-2007 00:01:23
ECMWF_FILE	AUX_ECF_AXNECM20070922_061114_20070922_210000_20070923_090000	1	23-SEP-2007 00:01:23
ECMWF_FILE	AUX_ECF_AXNECM20070922_180115_20070923_030000_20070923_150000	29	23-SEP-2007 03:22:35
OPTIONAL_ECMWF_FILE	MISSING	1	23-SEP-2007 00:01:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070922_210230_000060572061_00472_29083_4230.N1	1	23-SEP-2007 00:01:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070922_224846_000057382061_00473_29084_4231.N1	5	23-SEP-2007 00:37:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070923_002943_000054192061_00474_29085_4232.N1	19	23-SEP-2007 02:18:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070923_020521_000041442061_00475_29086_4233.N1	29	23-SEP-2007 03:22:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070923_031944_000057382061_00476_29087_4234.N1	45	23-SEP-2007 05:09:23



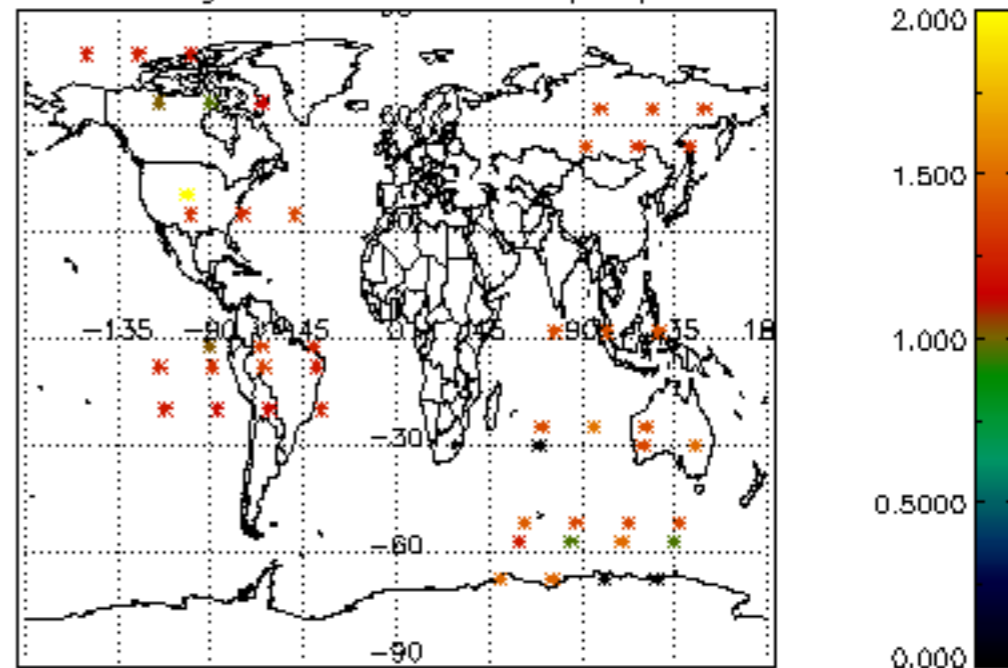




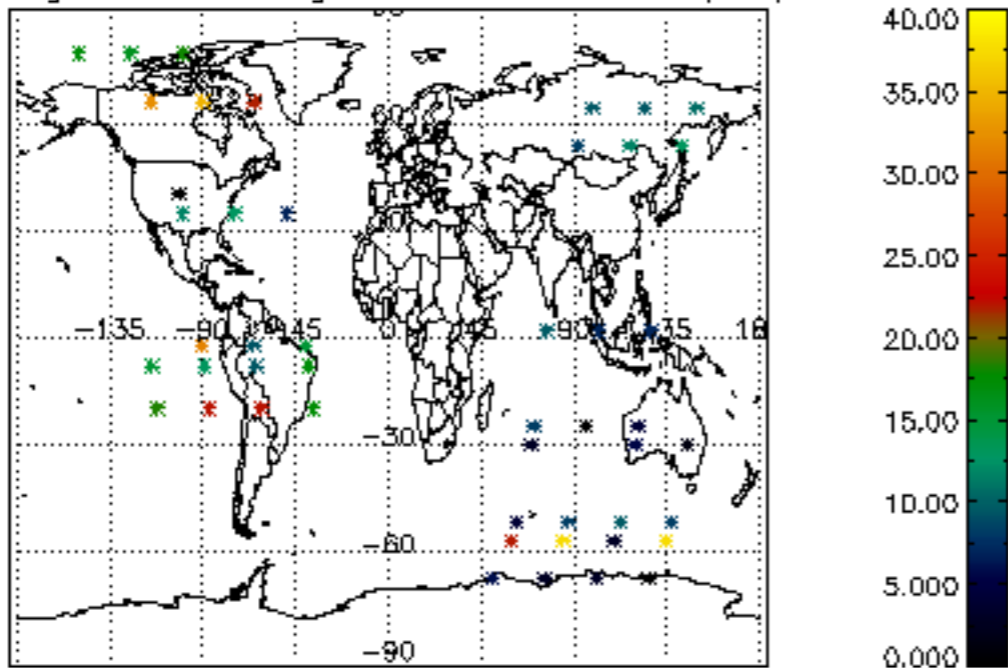
Percentage of cosmic ray hits per profile



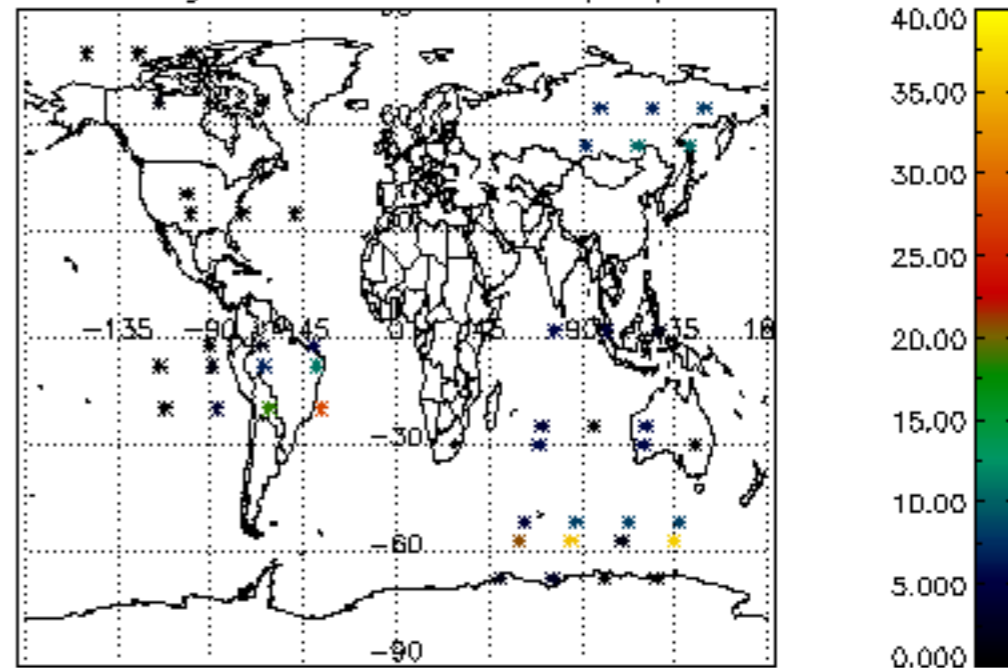
Percentage of datation errors per profile



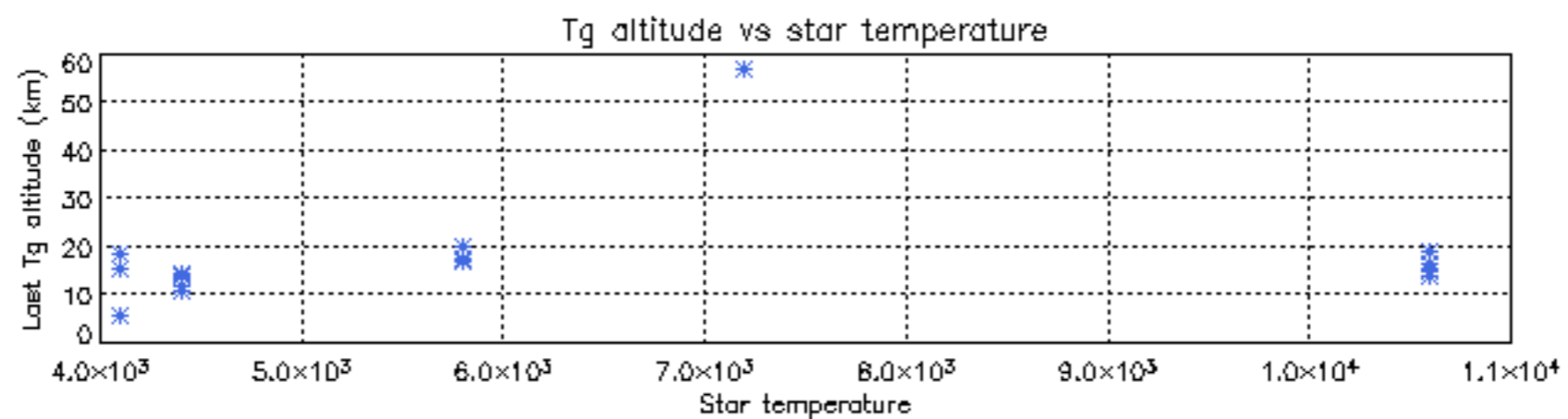
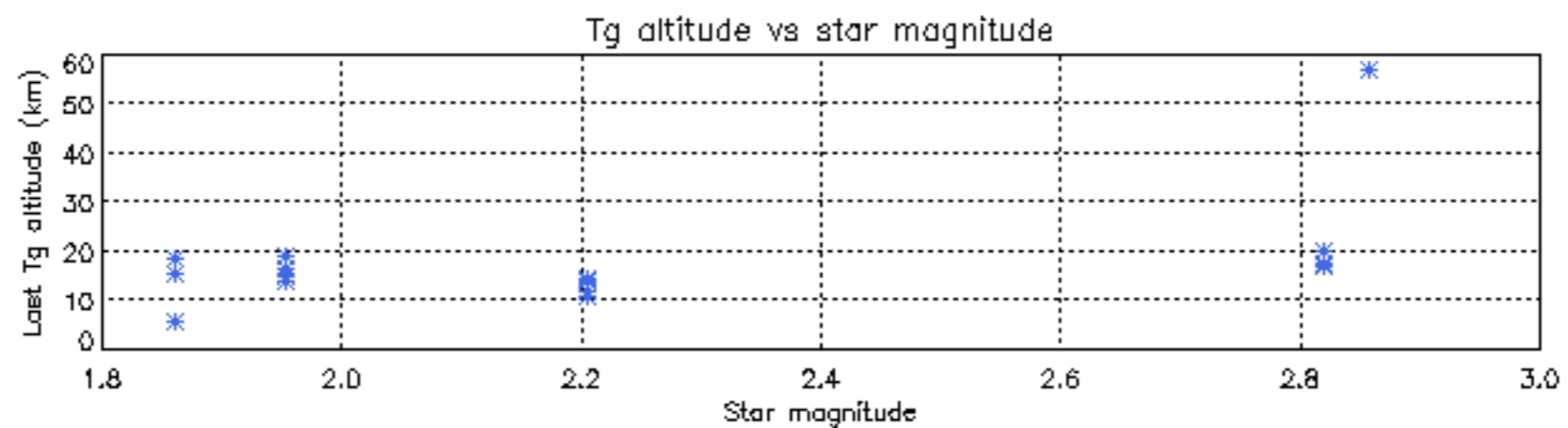
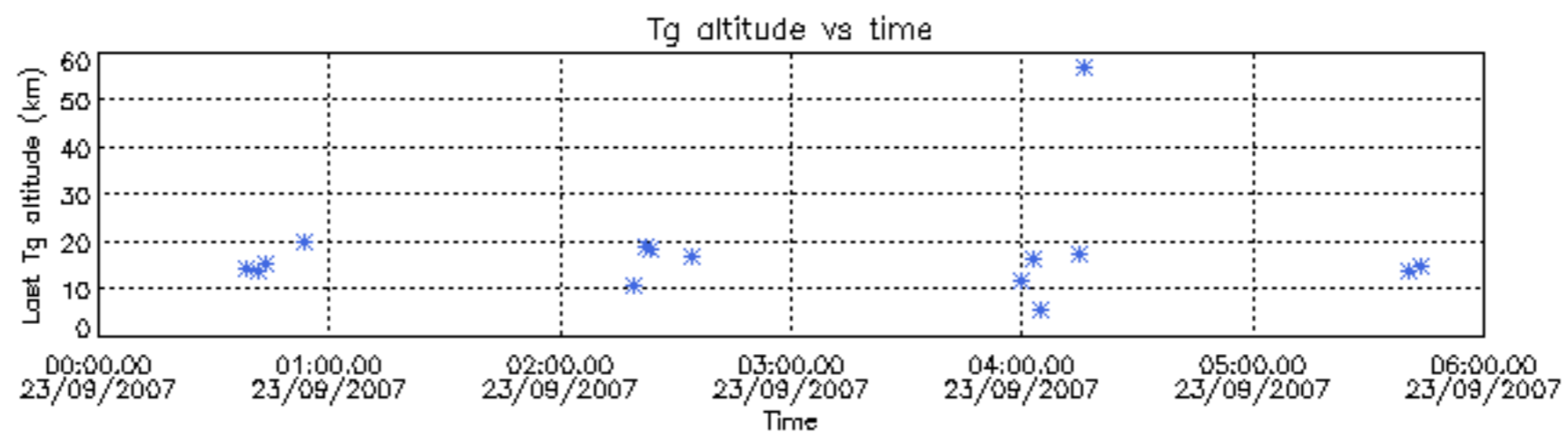
Percentage of star falling outside central band per profile



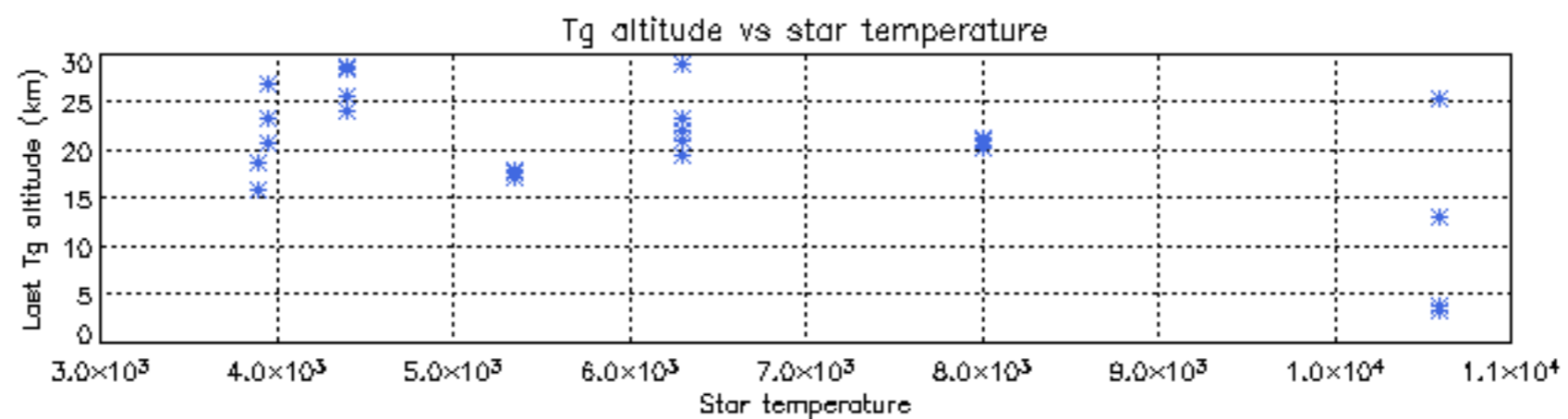
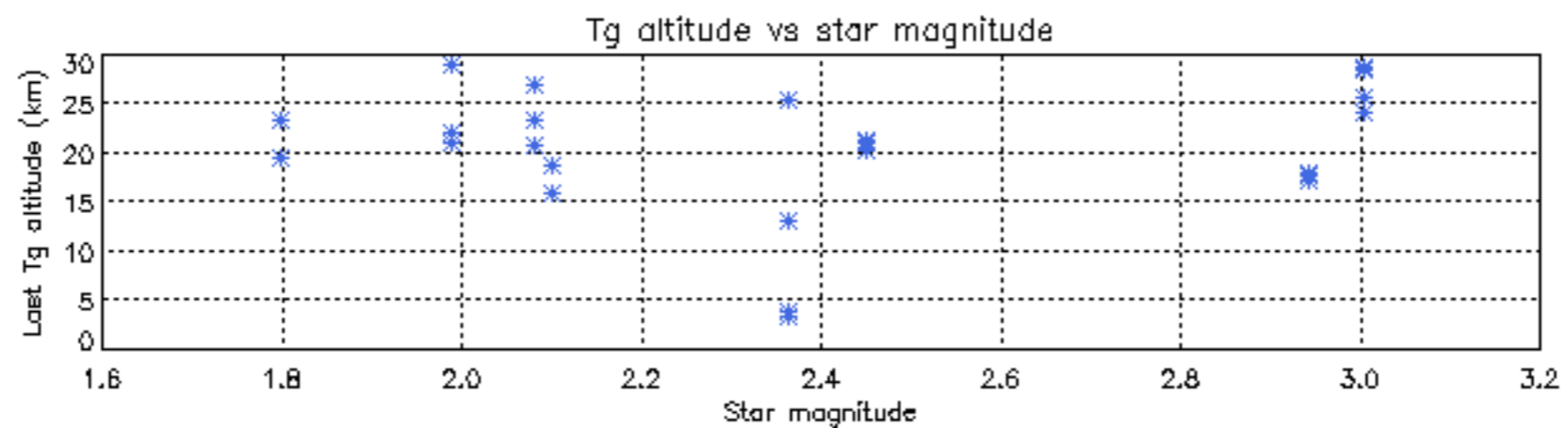
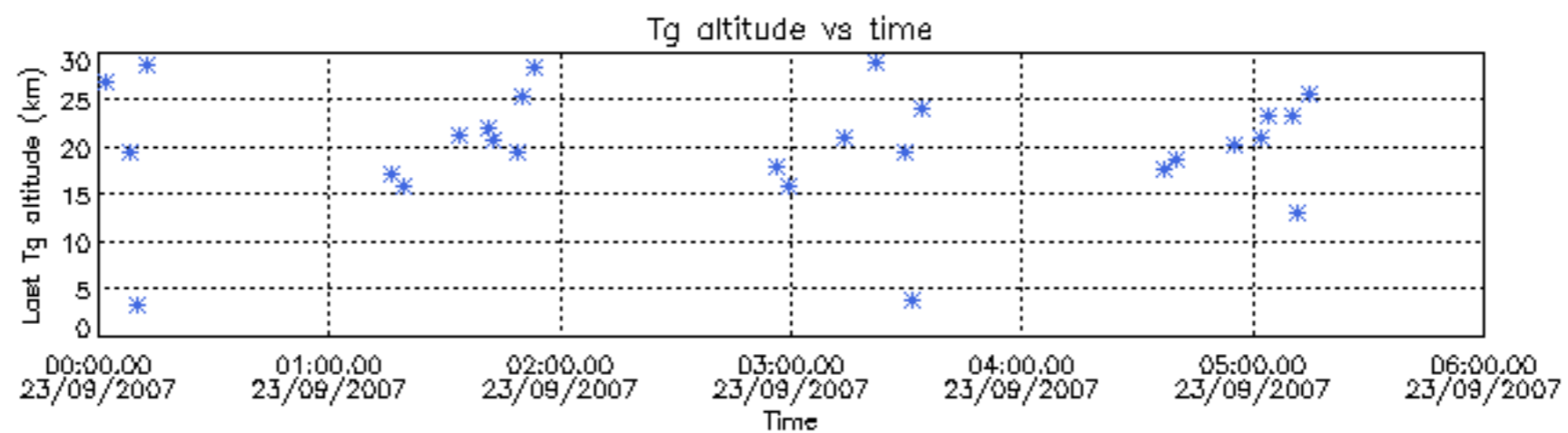
Percentage of saturation errors per profile

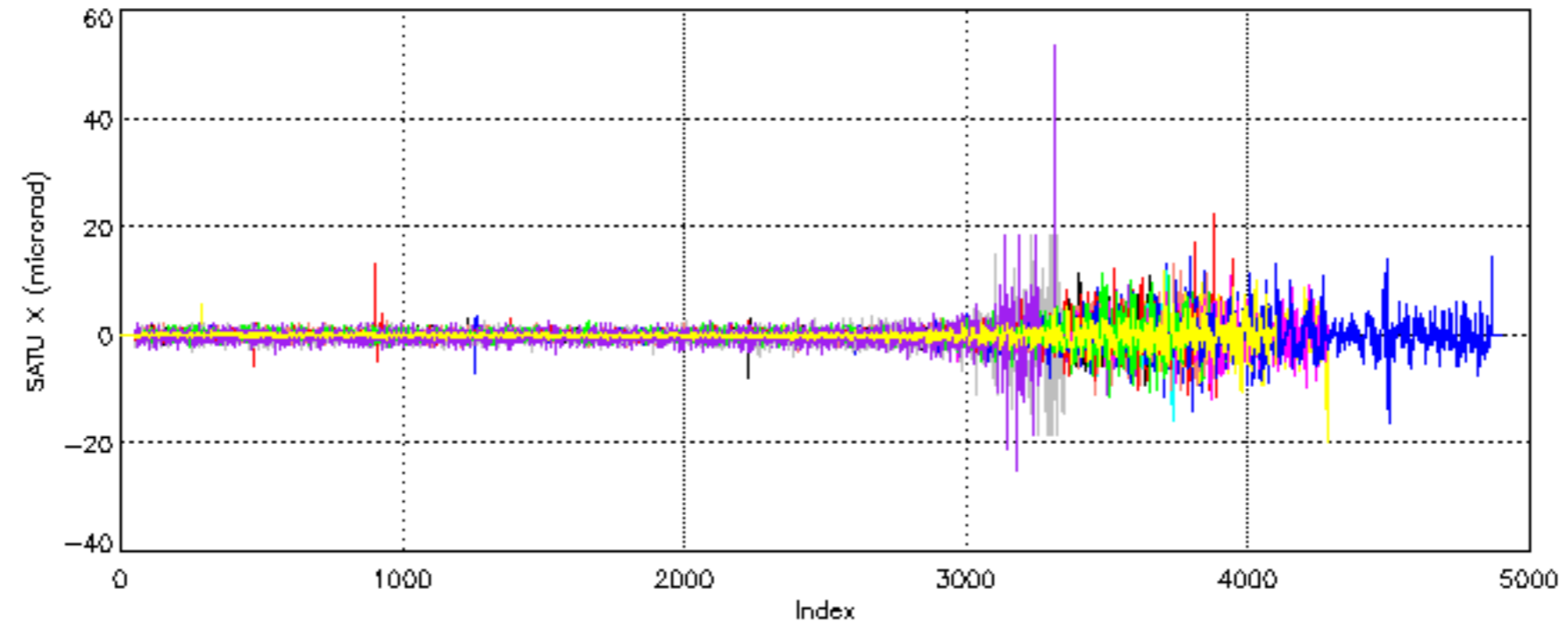


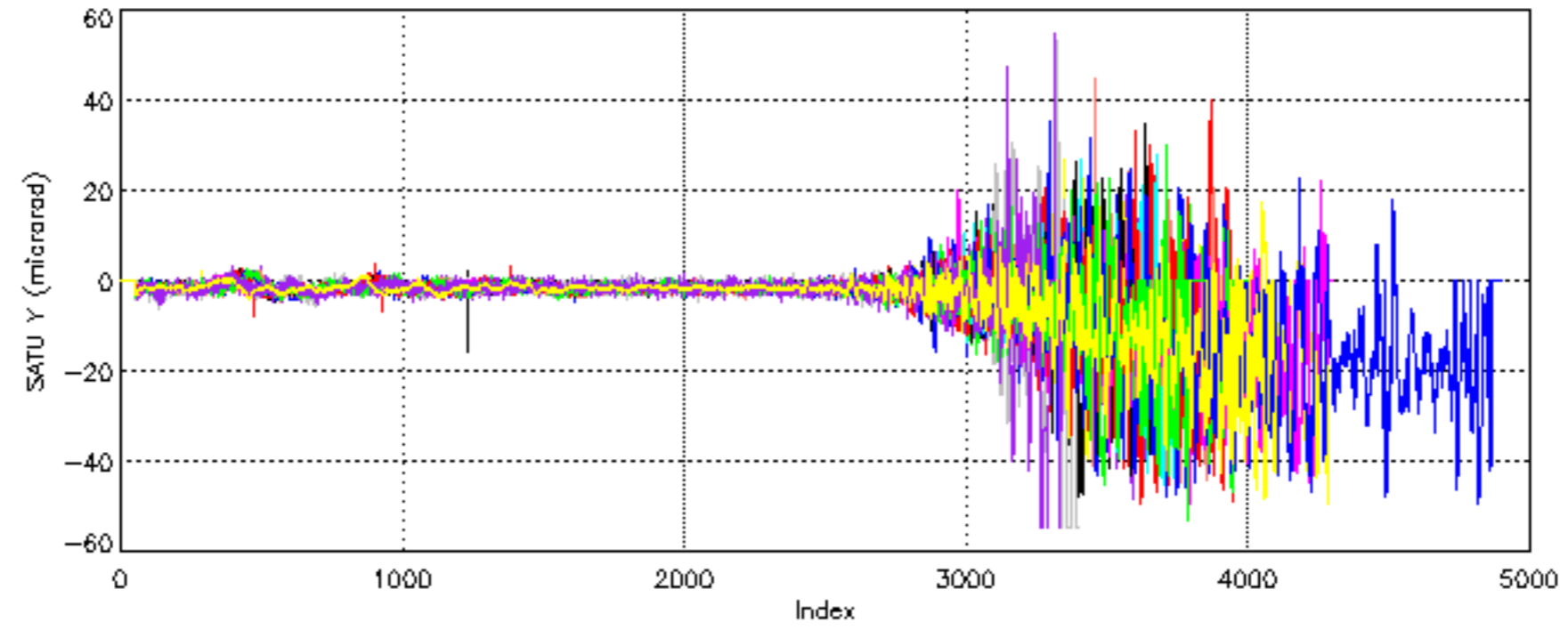
Tangent altitude at which the star is lost

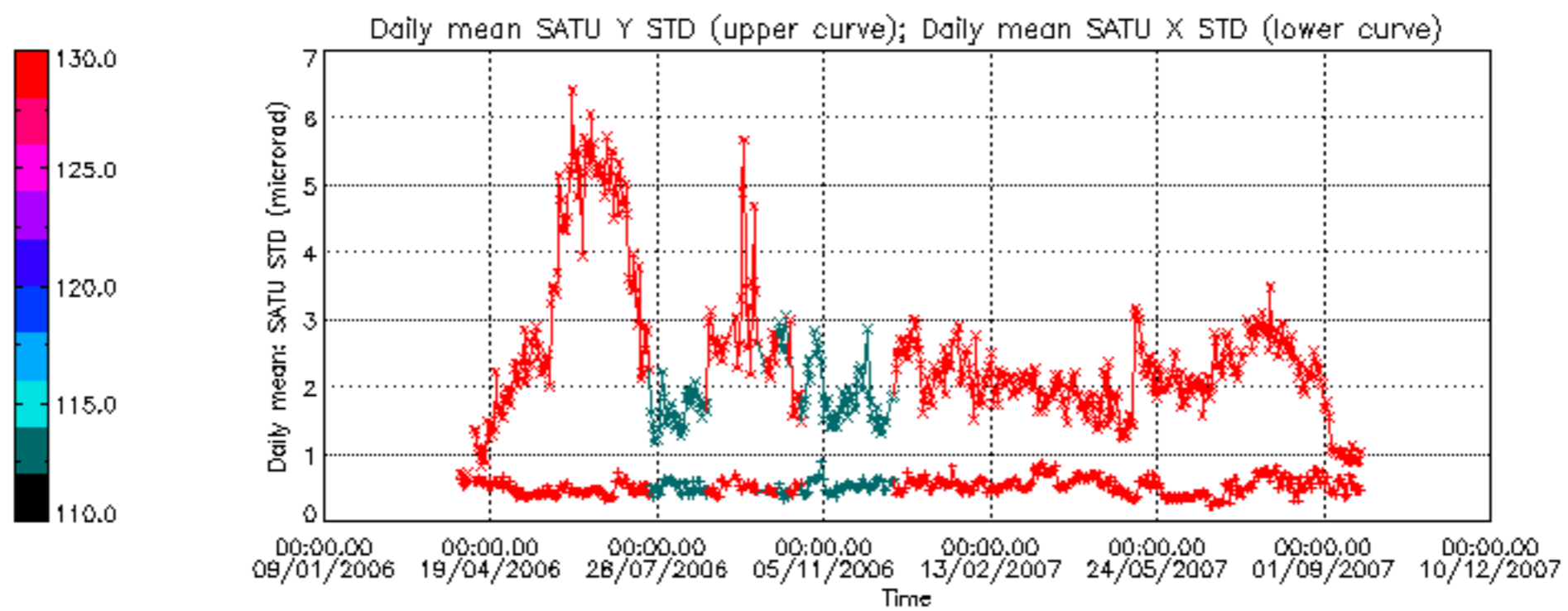


Tangent altitude at which the star is lost









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 2; -499.7; 01-SEP-2007 00:26:28; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;28770
 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771
 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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 2; -499.2; 01-SEP-2007 02:07:05; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;28771
 3; -304.1; 01-SEP-2007 02:10:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28771
 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772
 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772
 14; 3434.8; 01-SEP-2007 03:12:39; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;28772

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 2; -1425.0; 01-SEP-2007 03:32:15; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28772
 3; -1245.6; 01-SEP-2007 03:35:14; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28772
 4; -1122.8; 01-SEP-2007 03:37:17; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;28772
 5; -664.6; 01-SEP-2007 03:44:55; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28772
 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28772
 7; -398.5; 01-SEP-2007 03:49:22; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28772
 8; -303.5; 01-SEP-2007 03:50:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28772
 9; 525.1; 01-SEP-2007 04:04:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28773
 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773
 11; 1049.6; 01-SEP-2007 04:13:30; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28773
 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773
 14; 1807.3; 01-SEP-2007 04:26:07; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28773
 15; 1895.9; 01-SEP-2007 04:27:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28773
 16; 2075.9; 01-SEP-2007 04:30:36; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28773
 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773
 18; 2976.3; 01-SEP-2007 04:45:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28773
 19; 3434.8; 01-SEP-2007 04:53:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28773

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1; -1584.0; 01-SEP-2007 05:10:12; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28773
 2; -1424.8; 01-SEP-2007 05:12:51; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28773
 3; -1245.1; 01-SEP-2007 05:15:51; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28773
 4; -1122.4; 01-SEP-2007 05:17:54; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28773
 5; -664.1; 01-SEP-2007 05:25:32; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;28773
 6; -498.1; 01-SEP-2007 05:28:18; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;28773
 7; -397.9; 01-SEP-2007 05:29:58; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28773
 8; -302.8; 01-SEP-2007 05:31:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28773
 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774
 10; 602.3; 01-SEP-2007 05:46:38; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28774
 11; 1050.0; 01-SEP-2007 05:54:06; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28774
 12; 1328.8; 01-SEP-2007 05:58:45; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28774
 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28774

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14; 1807.3; 01-SEP-2007 06:06:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28774
15; 1896.0; 01-SEP-2007 06:08:12; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28774
16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
17; 2678.2; 01-SEP-2007 06:21:14; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28774
18; 2976.2; 01-SEP-2007 06:26:12; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28774
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 2; 1331.2; 01-SEP-2007 21:04:11; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28783
 3; 1808.1; 01-SEP-2007 21:12:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28783
 4; 1895.6; 01-SEP-2007 21:13:35; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28783
 5; 2075.4; 01-SEP-2007 21:16:35; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28783
 6; 2975.2; 01-SEP-2007 21:31:35; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28783
 7; 3434.6; 01-SEP-2007 21:39:14; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28783
 8; 4453.3; 01-SEP-2007 21:56:13; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28783
 9; 4613.5; 01-SEP-2007 21:58:53; Dark ; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;28783
10; 4916.7; 01-SEP-2007 22:03:56; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28783
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 2; -493.0; 01-SEP-2007 22:14:22; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;28783
 3; -296.2; 01-SEP-2007 22:17:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28783
 4; 531.1; 01-SEP-2007 22:31:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28784
 5; 608.4; 01-SEP-2007 22:32:44; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28784
 6; 1053.0; 01-SEP-2007 22:40:08; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;28784
 7; 1331.4; 01-SEP-2007 22:44:47; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28784
 8; 1620.4; 01-SEP-2007 22:49:36; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28784
 9; 1808.2; 01-SEP-2007 22:52:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28784
10; 1895.6; 01-SEP-2007 22:54:11; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28784
11; 2075.4; 01-SEP-2007 22:57:11; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28784
12; 2975.2; 01-SEP-2007 23:12:10; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28784
13; 3434.5; 01-SEP-2007 23:19:50; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28784
14; 4453.4; 01-SEP-2007 23:36:49; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;28784
15; 4613.8; 01-SEP-2007 23:39:29; Dark ; 50.5; 170; 27Eps Gem ; 3.00; 9700;occ; 101; 0;28784
16; 4916.9; 01-SEP-2007 23:44:32; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28784
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 2; -492.5; 01-SEP-2007 23:54:59; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;28784
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 6; 531.5; 02-SEP-2007 00:12:03; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28785
 7; 609.0; 02-SEP-2007 00:13:20; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;28785
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9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786
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13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786
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6; -388.7; 02-SEP-2007 03:17:54; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28786
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9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787
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11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787
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14; 1808.6; 02-SEP-2007 03:54:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28787
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17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787
18; 3434.6; 02-SEP-2007 04:21:38; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28787

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17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788
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9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797
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6; -82.1; 02-SEP-2007 21:49:36; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28797
7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798
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 13; 1895.4; 02-SEP-2007 22:22:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28798
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 16; 3434.4; 02-SEP-2007 22:48:13; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28798
 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798
 18; 4921.5; 02-SEP-2007 23:13:00; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;28798
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 3; -286.1; 02-SEP-2007 23:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28798
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 5; 539.3; 02-SEP-2007 23:40:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28799
 6; 617.4; 02-SEP-2007 23:41:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28799
 7; 1057.6; 02-SEP-2007 23:49:12; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28799
 8; 1335.4; 02-SEP-2007 23:53:49; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;28799
 9; 1622.4; 02-SEP-2007 23:58:36; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28799
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 2; 1623.8; 03-SEP-2007 16:44:37; Dark ; 47.0; 142; 49Del Cap ; 2.85; 8900;occ; 94; 0;28809
 3; 1810.9; 03-SEP-2007 16:47:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28809
 4; 1895.4; 03-SEP-2007 16:49:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28809
 5; 2074.7; 03-SEP-2007 16:52:08; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28809
 6; 2973.2; 03-SEP-2007 17:07:06; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28809
 7; 3434.2; 03-SEP-2007 17:14:47; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28809
 8; 4457.1; 03-SEP-2007 17:31:50; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28809
 9; 4925.4; 03-SEP-2007 17:39:39; Dark ; 46.0; 8; 10Alp CMi ; 0.40; 6500;occ; 92; 0;28809
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 11; 5557.2; 03-SEP-2007 17:50:10; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28809
 12; 5647.8; 03-SEP-2007 17:51:41; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;28809
 13; 5757.5; 03-SEP-2007 17:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28809
 14; 5842.6; 03-SEP-2007 17:54:56; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28809
 15; 5959.6; 03-SEP-2007 17:56:53; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;28809
 16; 6581.5; 03-SEP-2007 18:07:15; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28809
 17; 6660.1; 03-SEP-2007 18:08:33; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28809
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 4; 1810.8; 03-SEP-2007 18:28:20; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28810
 5; 1895.4; 03-SEP-2007 18:29:45; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28810
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 11; 5395.6; 03-SEP-2007 19:28:05; Dark ; 57.5; 1; 9Alp CMA ; -1.44; 11000;occ; 115; 0;28810
 12; 5557.5; 03-SEP-2007 19:30:47; Dark ; 40.0; 23; 21Eps CMA ; 1.50; 26000;occ; 80; 0;28810
 13; 5648.2; 03-SEP-2007 19:32:17; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;28810
 14; 5758.2; 03-SEP-2007 19:34:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28810
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 16; 5960.0; 03-SEP-2007 19:37:29; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;28810
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 6; -74.6; 04-SEP-2007 00:39:18; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28813
 7; 547.4; 04-SEP-2007 00:49:40; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28814
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 9; 1061.9; 04-SEP-2007 00:58:15; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;28814
 10; 1339.5; 04-SEP-2007 01:02:52; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28814

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16; 3434.0; 04-SEP-2007 01:37:47; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28814
17; 4457.6; 04-SEP-2007 01:54:50; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28814
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 2; 989.3; 04-SEP-2007 04:18:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28816
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 4; 3535.1; 04-SEP-2007 05:00:40; Bright; 85.5; 73; 57Gam1And ; 2.26; 13100;occ; 171; 0;28816
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 3; -1404.7; 04-SEP-2007 05:18:56; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 0;28816
 4; -679.3; 04-SEP-2007 05:31:01; Dark ; 148.5; 13; 87Alp Tau ; 0.87; 3800;occ; 297; 0;28816
 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
 6; 991.7; 04-SEP-2007 05:58:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28817
 7; 3162.6; 04-SEP-2007 06:35:03; Bright; 76.0; 53; 43Bet And ; 2.05; 3300;occ; 152; 0;28817
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
 4; 3960.2; 04-SEP-2007 21:53:44; Bright; 100.5; 79; 26Bet Per ; 2.31; 13100;occ; 201; 0;28826
 5; 4187.8; 04-SEP-2007 21:57:32; Bright; 84.0; 149; 45Eps Per ; 2.89; 30000;occ; 168; 0;28826
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 3; 1015.9; 04-SEP-2007 22:45:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28827
 4; 3142.0; 04-SEP-2007 23:20:42; Bright; 85.5; 53; 43Bet And ; 2.05; 3300;occ; 171; 0;28827
 5; 3514.7; 04-SEP-2007 23:26:55; Bright; 84.0; 73; 57Gam1And ; 2.26; 13100;occ; 168; 0;28827
 6; 3958.7; 04-SEP-2007 23:34:19; Bright; 101.0; 79; 26Bet Per ; 2.31; 13100;occ; 202; 0;28827
 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 3; 1018.3; 05-SEP-2007 00:25:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28828
 4; 3139.9; 05-SEP-2007 01:01:16; Bright; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;28828
 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
 6; 3957.3; 05-SEP-2007 01:14:53; Bright; 104.5; 79; 26Bet Per ; 2.31; 13100;occ; 209; 0;28828
 7; 4186.4; 05-SEP-2007 01:18:42; Bright; 85.5; 149; 45Eps Per ; 2.89; 30000;occ; 171; 0;28828
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 3; -1403.8; 04-SEP-2007 06:59:33; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28817
 4; -674.4; 04-SEP-2007 07:11:42; Dark ; 178.5; 13; 87Alp Tau ; 0.87; 3800;occ; 357; 0;28817
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 3; -2280.4; 04-SEP-2007 08:25:32; Bright; 169.0; 173; 4Bet Tri ; 3.00; 8900;occ; 338; 0;28818
 4; -1842.6; 04-SEP-2007 08:32:50; Bright; 85.0; 149; 45Eps Per ; 2.89; 30000;occ; 170; 0;28818
 5; -1402.9; 04-SEP-2007 08:40:09; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28818
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3;-2296.7; 04-SEP-2007 16:48:15; Bright; 175.0; 173; 4Bet Tri ; 3.00; 8900;occ; 350; 0;28823
4;-1845.9; 04-SEP-2007 16:55:46; Bright; 80.0; 149; 45Eps Per ; 2.89; 30000;occ; 160; 0;28823
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 12; 5997.4; 23-SEP-2007 10:46:19; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;29091
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9; 4167.3; 23-SEP-2007 15:17:37; Bright; 33.0; 174; 52Psi UMA ; 3.00; 4400;occ; 66; 0;29094
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15; 6624.4; 23-SEP-2007 15:58:34; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;29094
16; 6722.0; 23-SEP-2007 16:00:11; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29094
17; 7161.9; 23-SEP-2007 16:07:31; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;29094

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6; 3519.7; 23-SEP-2007 16:47:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29095
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4; 2104.6; 23-SEP-2007 18:04:26; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29096
5; 2981.7; 23-SEP-2007 18:19:03; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29096
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9; 3978.8; 23-SEP-2007 18:35:40; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29096
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13; 5793.3; 23-SEP-2007 19:05:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29096
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