

GOMOS Daily Report 08-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	10SEP2007 05:33:28
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (08SEP2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09SEP2007 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)

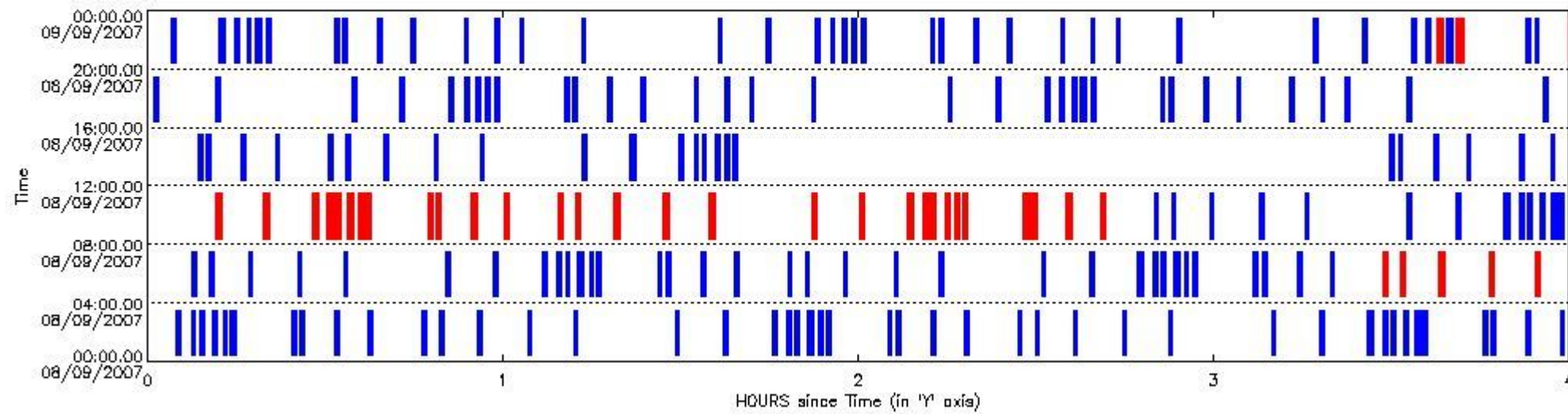
2.1 Level 0 products arrived in PCF (see template [here](#))

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
08-SEP-2007 07:28:35	34AlpAqr	162	28875
08-SEP-2007 07:31:34	8EpsPeg	61	28875
08-SEP-2007 07:38:00	44EtaPeg	164	28875
08-SEP-2007 07:46:28	5AlpCep	89	28875
08-SEP-2007 07:54:11	1AlpUMi	49	28875
08-SEP-2007 08:11:24	66AlpGem	24	28875
08-SEP-2007 08:19:28	10AlpCMi	8	28875
08-SEP-2007 08:27:41	9AlpCMa	1	28875
08-SEP-2007 08:30:15	21EpsCMa	23	28875
08-SEP-2007 08:31:37	PiPup	117	28875
08-SEP-2007 08:33:45	DSA1059	0	28875
08-SEP-2007 08:35:37	TauPup	161	28875
08-SEP-2007 08:36:51	AlpCar	2	28875
08-SEP-2007 08:47:15	AlpHyi	143	28876
08-SEP-2007 08:48:36	AlpEri	9	28876

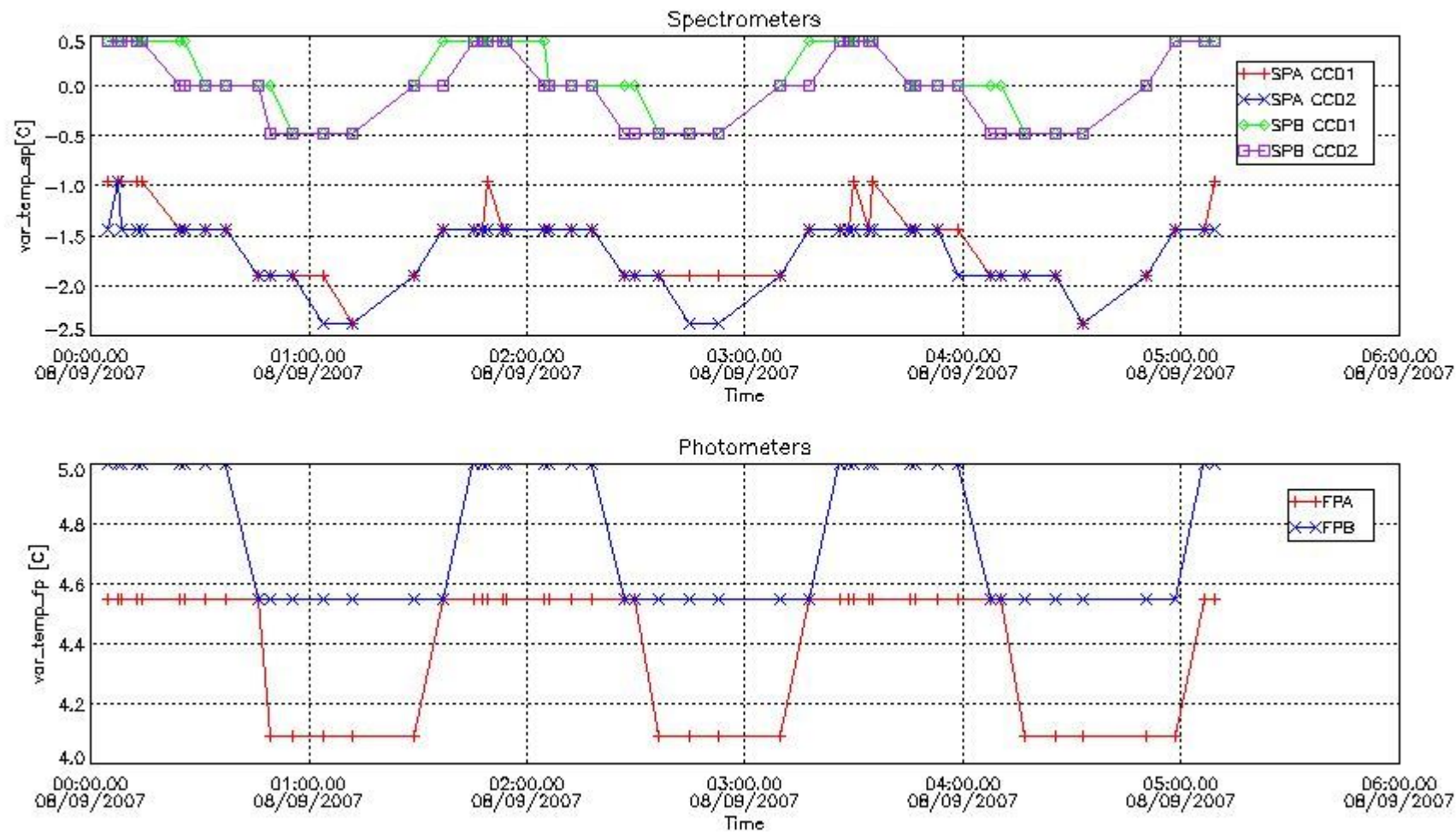
08-SEP-2007 08:54:30	AlpPhe	84	28876
08-SEP-2007 09:00:09	24AlpPsA	18	28876
08-SEP-2007 09:09:11	34AlpAqr	162	28876
08-SEP-2007 09:12:10	8EpsPeg	61	28876
08-SEP-2007 09:18:36	44EtaPeg	164	28876
08-SEP-2007 09:27:04	5AlpCep	89	28876
08-SEP-2007 09:34:47	1AlpUMi	49	28876
08-SEP-2007 09:52:00	66AlpGem	24	28876
08-SEP-2007 10:00:04	10AlpCMi	8	28876
08-SEP-2007 10:08:18	9AlpCMa	1	28876
08-SEP-2007 10:10:52	21EpsCMa	23	28876
08-SEP-2007 10:12:13	PiPup	117	28876
08-SEP-2007 10:14:35	DSA1055	0	28876
08-SEP-2007 10:16:13	TauPup	161	28876
08-SEP-2007 10:17:27	AlpCar	2	28876
08-SEP-2007 10:27:51	AlpHyi	143	28877
08-SEP-2007 10:29:13	AlpEri	9	28877
08-SEP-2007 10:35:06	AlpPhe	84	28877
08-SEP-2007 10:40:45	24AlpPsA	18	28877
08-SEP-2007 23:37:47	1ZetCMa	177	28884
08-SEP-2007 23:40:59	AlpCol	108	28884
08-SEP-2007 23:59:57	AlpPhe	84	28885

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_1PNPDE20070908_000443_000000542061_00259_28870_8812.N1	08-SEP-2007 00:04:43	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	28870	No
2	GOM_TRA_1PNPDE20070908_000718_000000462061_00259_28870_8813.N1	08-SEP-2007 00:07:18	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	28870	No
3	GOM_TRA_1PNPDE20070908_000840_000000462061_00259_28870_8814.N1	08-SEP-2007 00:08:40	Dark	46.000	117	Pi Pup	2.7060	3800.0	92	28870	No
4	GOM_TRA_1PNPDE20070908_001241_000000412061_00259_28870_8815.N1	08-SEP-2007 00:12:41	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	28870	No
5	GOM_TRA_1PNPDE20070908_001354_000000542061_00259_28870_8816.N1	08-SEP-2007 00:13:54	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	28870	No
6	GOM_TRA_1PNPDE20070908_002418_000000412061_00260_28871_8817.N1	08-SEP-2007 00:24:18	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	28871	No
7	GOM_TRA_1PNPDE20070908_002539_000000512061_00260_28871_8818.N1	08-SEP-2007 00:25:39	Dark	51.000	9	Alp Eri	0.45300	24000.	102	28871	No
8	GOM_TRA_1PNPDE20070908_003133_000000472061_00260_28871_8819.N1	08-SEP-2007 00:31:33	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	28871	No
9	GOM_TRA_1PNPDE20070908_003714_000000452061_00260_28871_8820.N1	08-SEP-2007 00:37:14	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	28871	No
10	GOM_TRA_1PNPDE20070908_004617_000000382061_00260_28871_8821.N1	08-SEP-2007 00:46:17	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	28871	No
11	GOM_TRA_1PNPDE20070908_004915_000000382061_00260_28871_8822.N1	08-SEP-2007 00:49:15	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	28871	No
12	GOM_TRA_1PNPDE20070908_005544_000000412061_00260_28871_8823.N1	08-SEP-2007 00:55:44	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	28871	No
13	GOM_TRA_1PNPDE20070908_010410_000000362061_00260_28871_8824.N1	08-SEP-2007 01:04:10	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	28871	No
14	GOM_TRA_1PNPDE20070908_011153_000000372061_00260_28871_8825.N1	08-SEP-2007 01:11:53	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28871	No
15	GOM_TRA_1PNPDE20070908_012906_000000402061_00260_28871_8826.N1	08-SEP-2007 01:29:06	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	28871	No
16	GOM_TRA_1PNPDE20070908_013708_000000462061_00260_28871_8827.N1	08-SEP-2007 01:37:08	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	28871	No
17	GOM_TRA_1PNPDE20070908_014520_000000552061_00260_28871_8967.N1	08-SEP-2007 01:45:20	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	28871	No
18	GOM_TRA_1PNPDE20070908_014754_000000462061_00260_28871_8968.N1	08-SEP-2007 01:47:54	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	28871	No
19	GOM_TRA_1PNPDE20070908_014917_000000452061_00260_28871_8969.N1	08-SEP-2007 01:49:17	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	28871	No
20	GOM_TRA_1PNPDE20070908_015317_000000392061_00260_28871_8970.N1	08-SEP-2007 01:53:17	Dark	39.000	161	Tau Pup	2.9310	4500.0	78	28871	No
21	GOM_TRA_1PNPDE20070908_015431_000000492061_00260_28871_8971.N1	08-SEP-2007 01:54:31	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	28871	No
22	GOM_TRA_1PNPDE20070908_020454_000000402061_00261_28872_8972.N1	08-SEP-2007 02:04:54	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	28872	No
23	GOM_TRA_1PNPDE20070908_020616_000000502061_00261_28872_8973.N1	08-SEP-2007 02:06:16	Dark	50.000	9	Alp Eri	0.45300	24000.	100	28872	No
24	GOM_TRA_1PNPDE20070908_021209_000000492061_00261_28872_8974.N1	08-SEP-2007 02:12:09	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	28872	No
25	GOM_TRA_1PNPDE20070908_021750_000000432061_00261_28872_8975.N1	08-SEP-2007 02:17:50	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	28872	No
26	GOM_TRA_1PNPDE20070908_022653_000000382061_00261_28872_8976.N1	08-SEP-2007 02:26:53	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	28872	No
27	GOM_TRA_1PNPDE20070908_022951_000000382061_00261_28872_8977.N1	08-SEP-2007 02:29:51	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	28872	No
28	GOM_TRA_1PNPDE20070908_023619_000000402061_00261_28872_8978.N1	08-SEP-2007 02:36:19	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	28872	No
29	GOM_TRA_1PNPDE20070908_024446_000000332061_00261_28872_8979.N1	08-SEP-2007 02:44:46	Bright	32.500	89	5Alp Cep	2.4510	8000.0	65	28872	No
30	GOM_TRA_1PNPDE20070908_025229_000000322061_00261_28872_8980.N1	08-SEP-2007 02:52:29	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28872	No
31	GOM_TRA_1PNPDE20070908_030942_000000412061_00261_28872_9100.N1	08-SEP-2007 03:09:42	Bright	40.500	24	66Alp Gem	1.5800	10200.	81	28872	No
32	GOM_TRA_1PNPDE20070908_031744_000000502061_00261_28872_9101.N1	08-SEP-2007 03:17:44	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	28872	No

33	GOM_TRA_1PNPDE20070908_032557_000000602061_00261_28872_9102.N1	08-SEP-2007 03:25:57	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	28872	No
34	GOM_TRA_1PNPDE20070908_032831_000000462061_00261_28872_9103.N1	08-SEP-2007 03:28:31	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	28872	No
35	GOM_TRA_1PNPDE20070908_032953_000000442061_00261_28872_9104.N1	08-SEP-2007 03:29:53	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	28872	No
36	GOM_TRA_1PNPDE20070908_033353_000000432061_00261_28872_9105.N1	08-SEP-2007 03:33:53	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	28872	No
37	GOM_TRA_1PNPDE20070908_033507_000000552061_00261_28872_9106.N1	08-SEP-2007 03:35:07	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	28872	No
38	GOM_TRA_1PNPDE20070908_034531_000000402061_00262_28873_9107.N1	08-SEP-2007 03:45:31	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28873	No
39	GOM_TRA_1PNPDE20070908_034653_000000462061_00262_28873_9108.N1	08-SEP-2007 03:46:53	Dark	45.500	9	Alp Eri	0.45300	24000.	91	28873	No
40	GOM_TRA_1PNPDE20070908_035246_000000512061_00262_28873_9109.N1	08-SEP-2007 03:52:46	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	28873	No
41	GOM_TRA_1PNPDE20070908_035826_000000442061_00262_28873_9110.N1	08-SEP-2007 03:58:26	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	28873	No
42	GOM_TRA_1PNPDE20070908_040729_000000392061_00262_28873_9111.N1	08-SEP-2007 04:07:29	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	28873	No
43	GOM_TRA_1PNPDE20070908_041027_000000382061_00262_28873_9112.N1	08-SEP-2007 04:10:27	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	28873	No
44	GOM_TRA_1PNPDE20070908_041655_000000402061_00262_28873_9113.N1	08-SEP-2007 04:16:55	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	28873	No
45	GOM_TRA_1PNPDE20070908_042522_000000372061_00262_28873_9114.N1	08-SEP-2007 04:25:22	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	28873	No
46	GOM_TRA_1PNPDE20070908_043305_000000372061_00262_28873_9115.N1	08-SEP-2007 04:33:05	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28873	No
47	GOM_TRA_1PNPDE20070908_045018_000000422061_00262_28873_9281.N1	08-SEP-2007 04:50:18	Bright	41.500	24	66Alp Gem	1.5800	10200.	83	28873	No
48	GOM_TRA_1PNPDE20070908_045821_000000452061_00262_28873_9282.N1	08-SEP-2007 04:58:21	Twilight	44.500	8	10Alp CMi	0.40000	6500.0	89	28873	No
49	GOM_TRA_1PNPDE20070908_050633_000000582061_00262_28873_9283.N1	08-SEP-2007 05:06:33	Dark	57.500	1	9Alp CMa	-1.4400	11000.	115	28873	No
50	GOM_TRA_1PNPDE20070908_050908_000000462061_00262_28873_9284.N1	08-SEP-2007 05:09:08	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	28873	No

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



4. Overview of dark signal processing per product

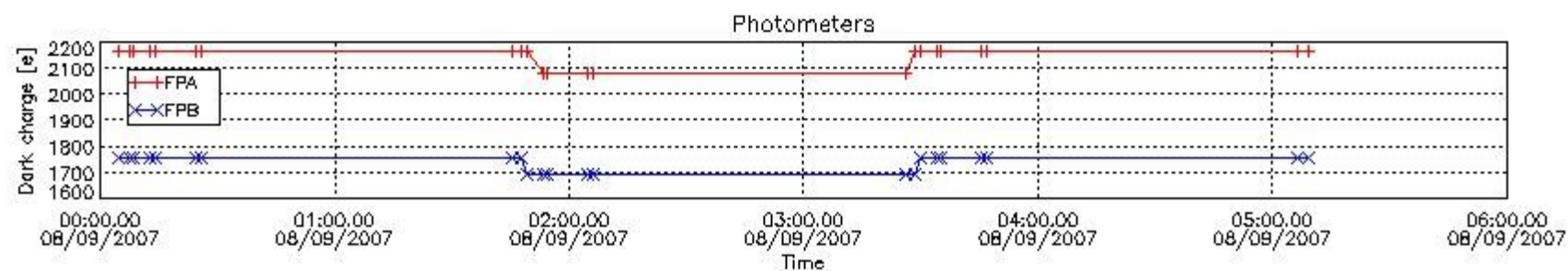
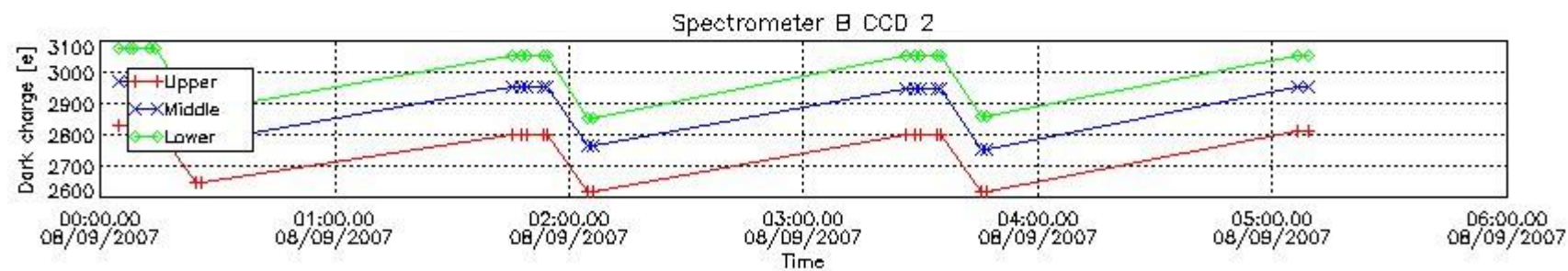
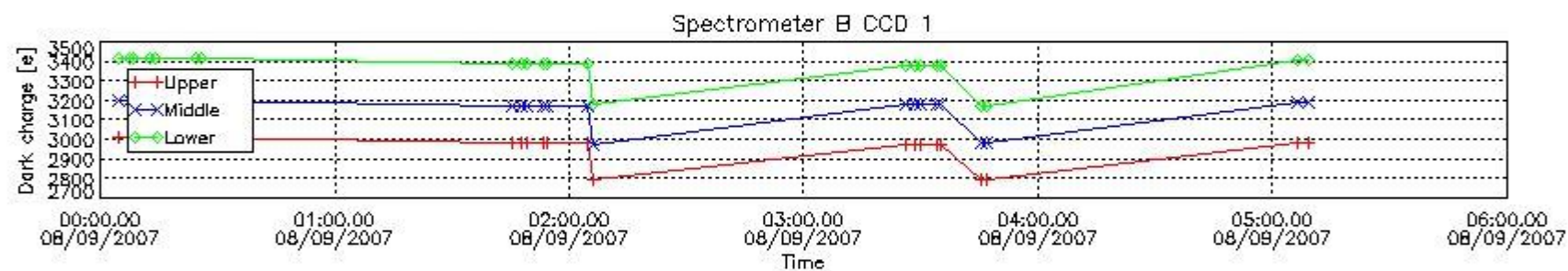
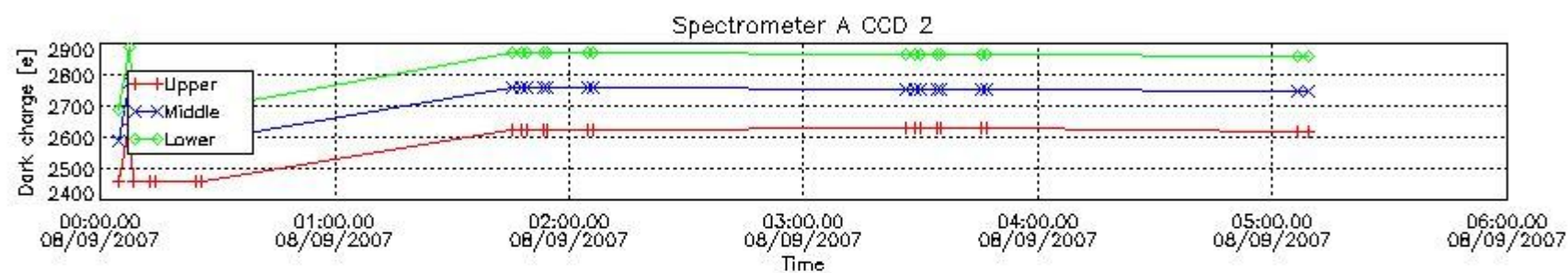
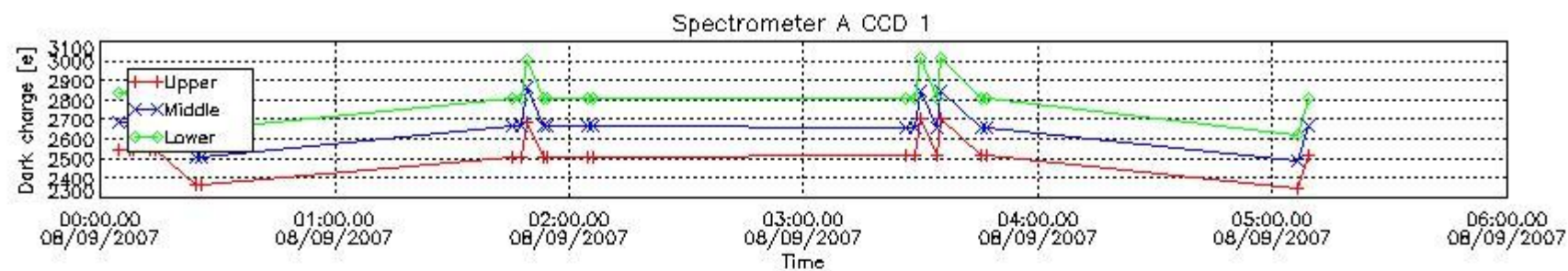
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels"

(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



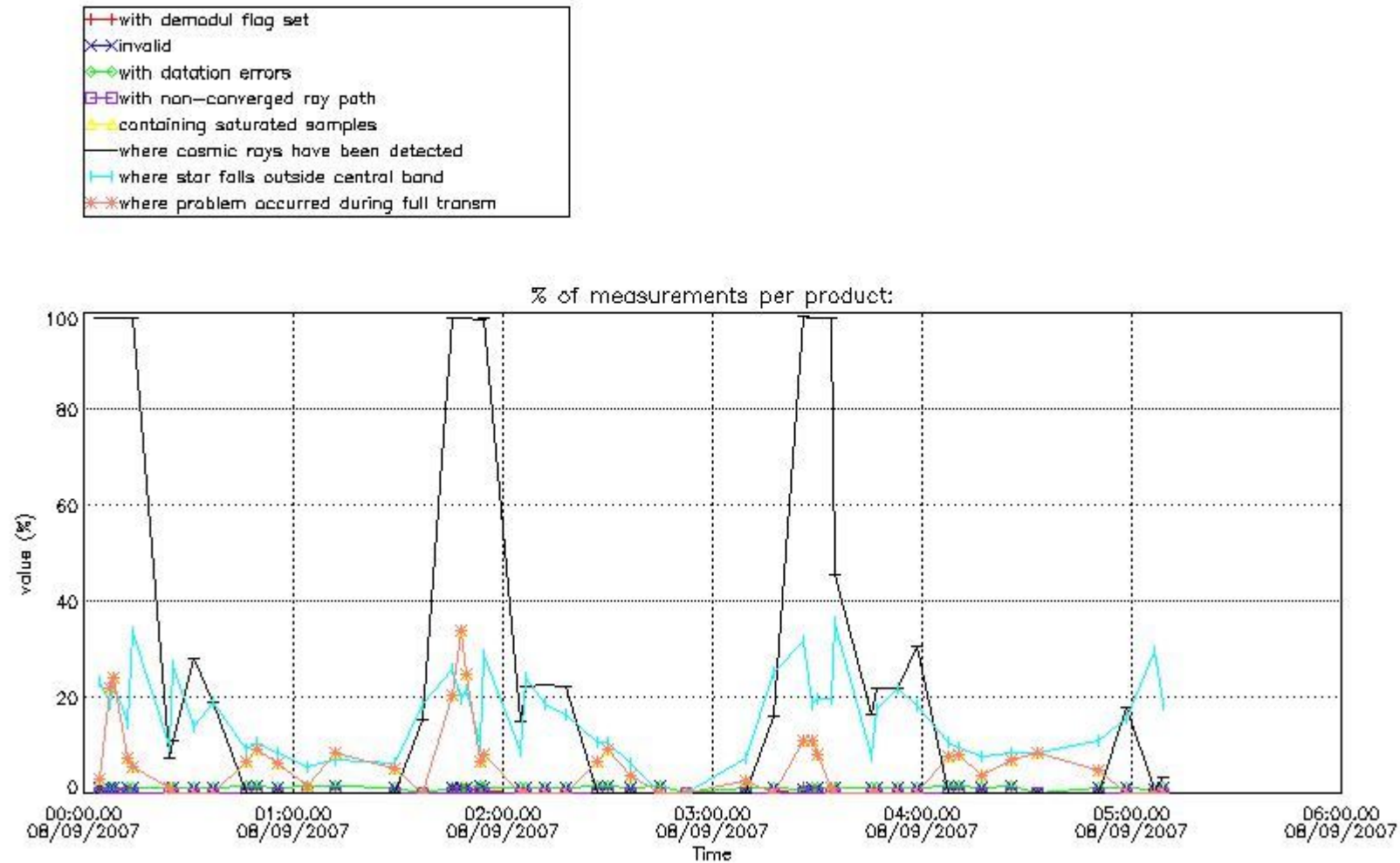
5. Demodulation flag and quality information monitoring

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.

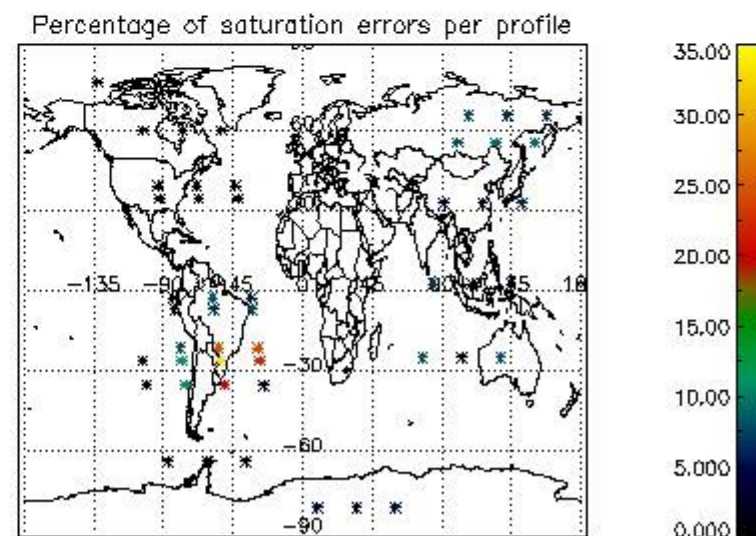
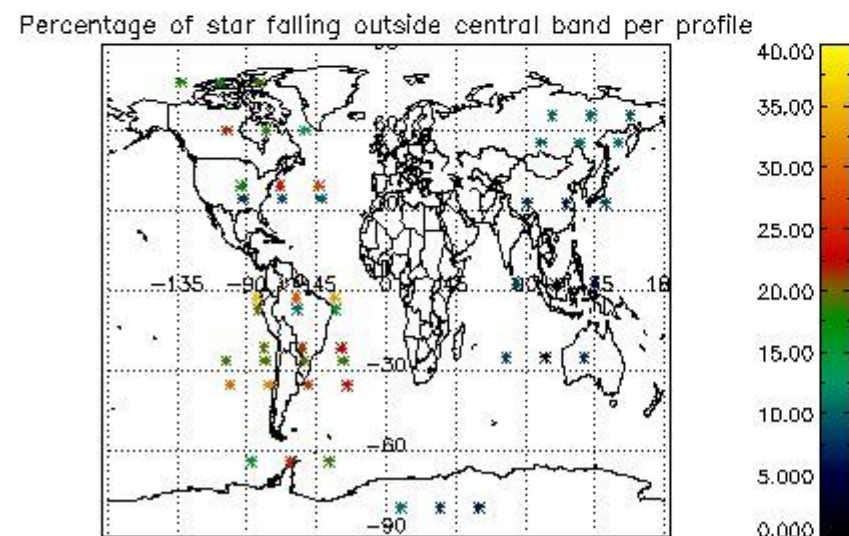
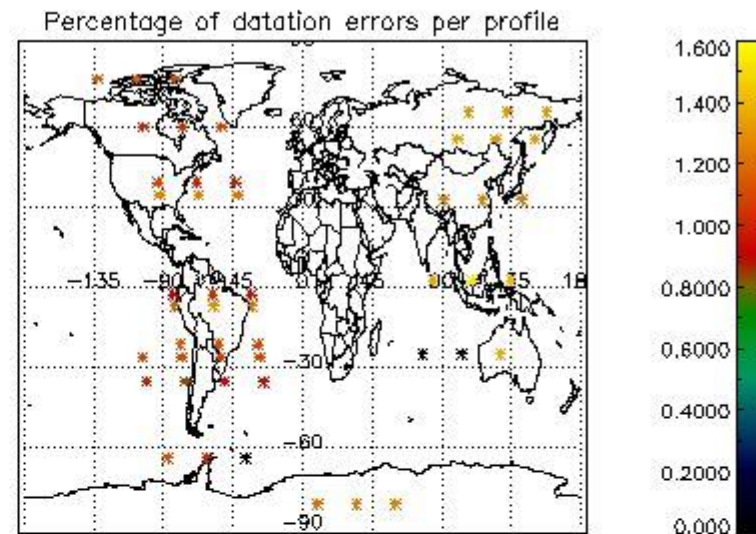
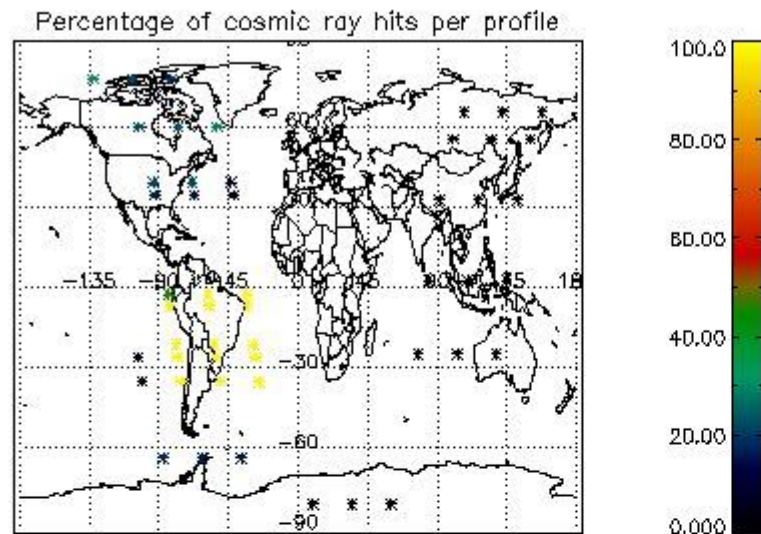
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
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)



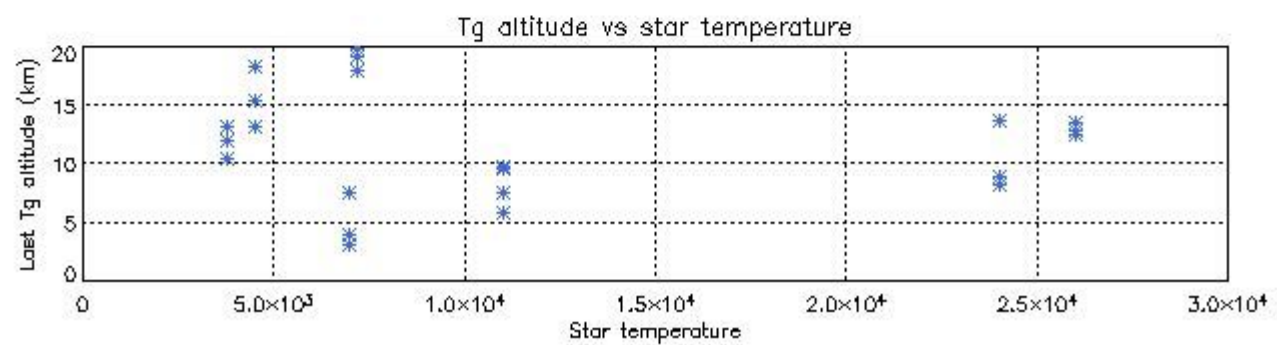
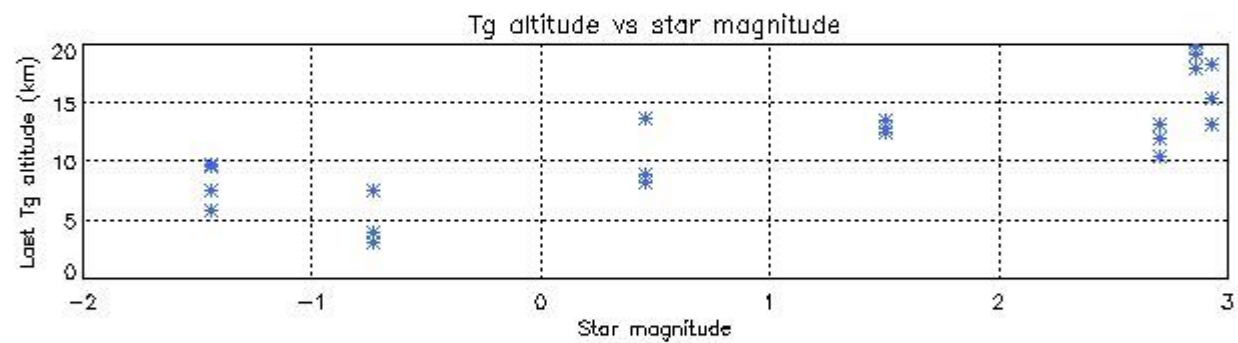
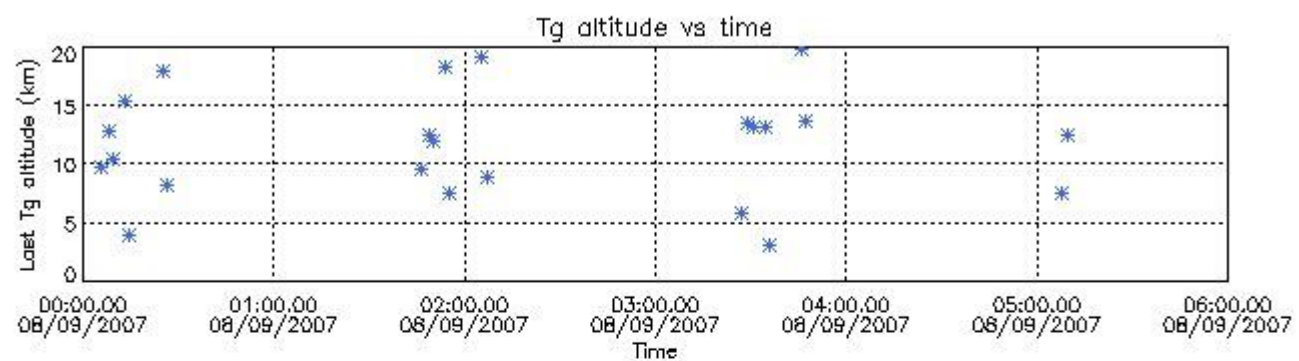
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.651	20.186	11.739
St. deviation:	4.5875	3.6545	2.4360
Maximum:	19.767	30.071	13.627
Minimum:	3.0039	16.994	8.9896
Number of data:	23.000	18.000	3.0000

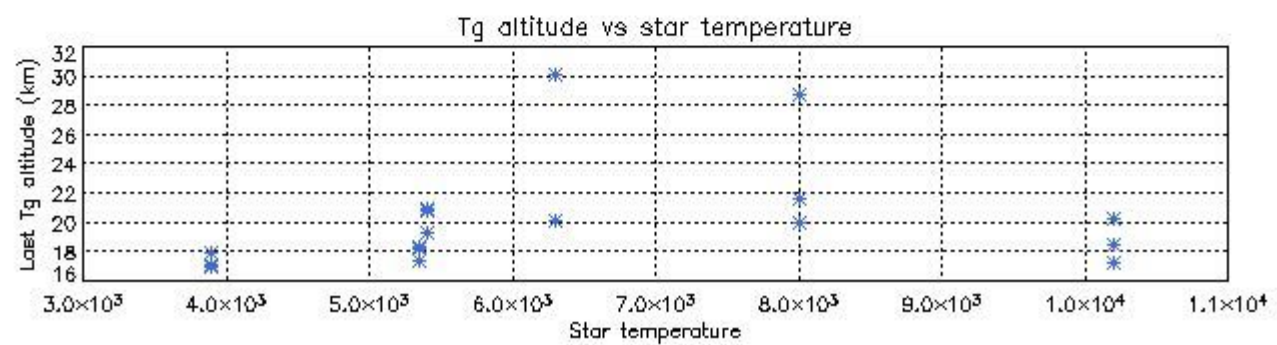
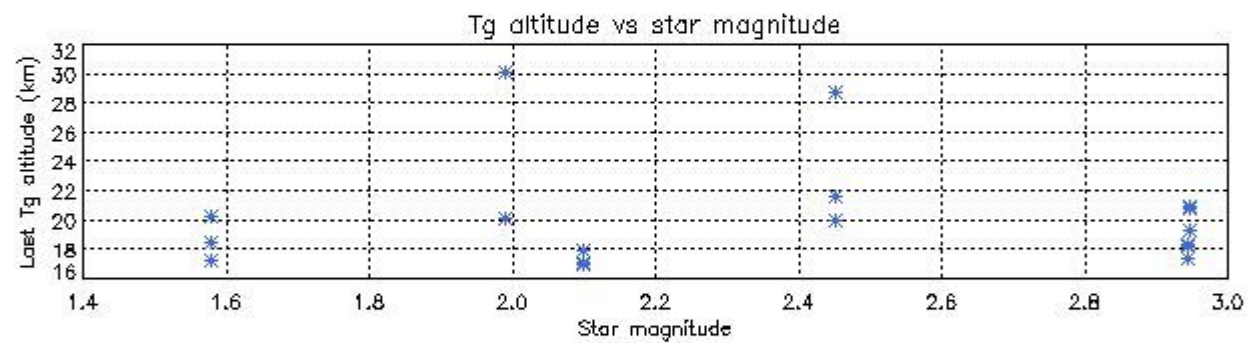
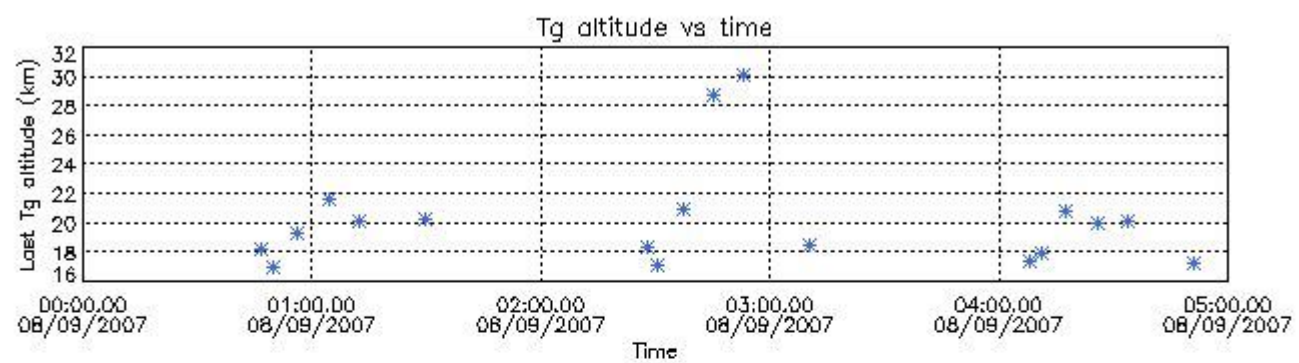
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



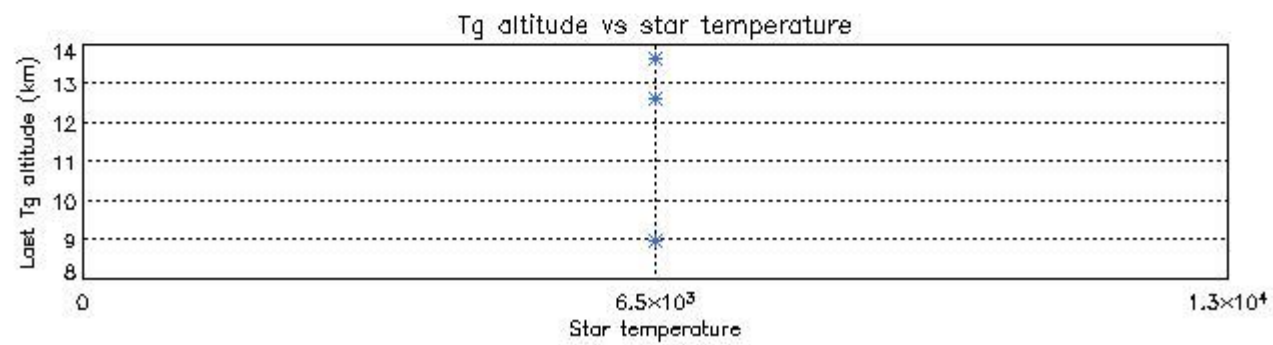
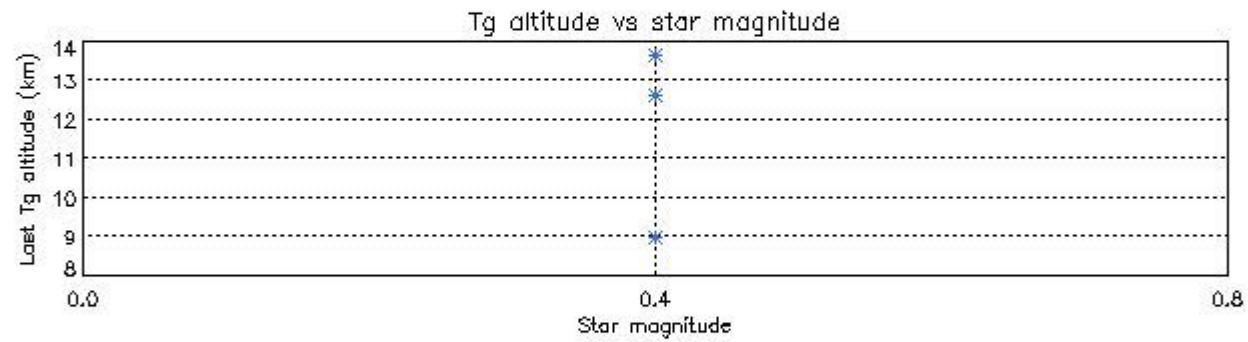
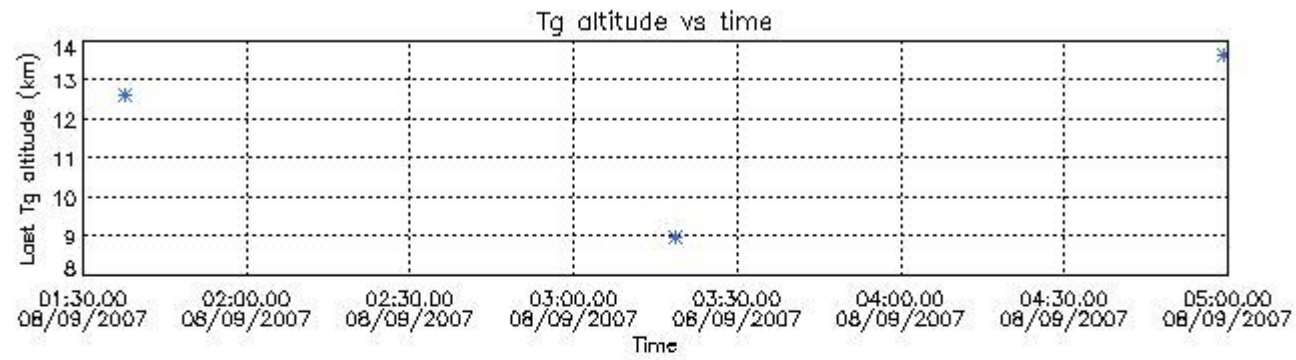
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

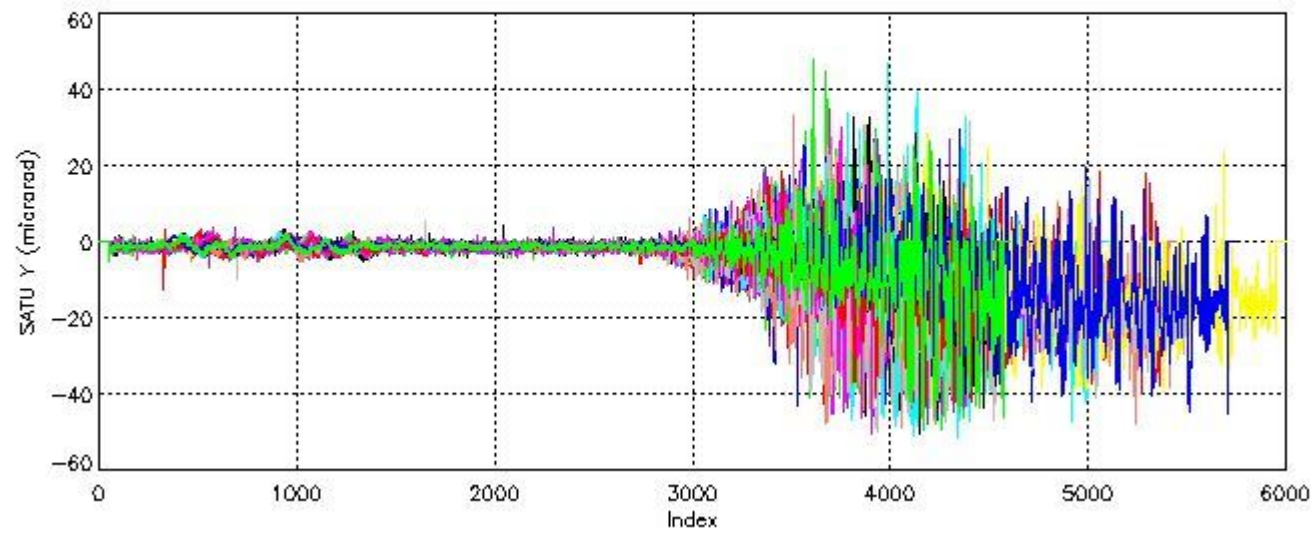
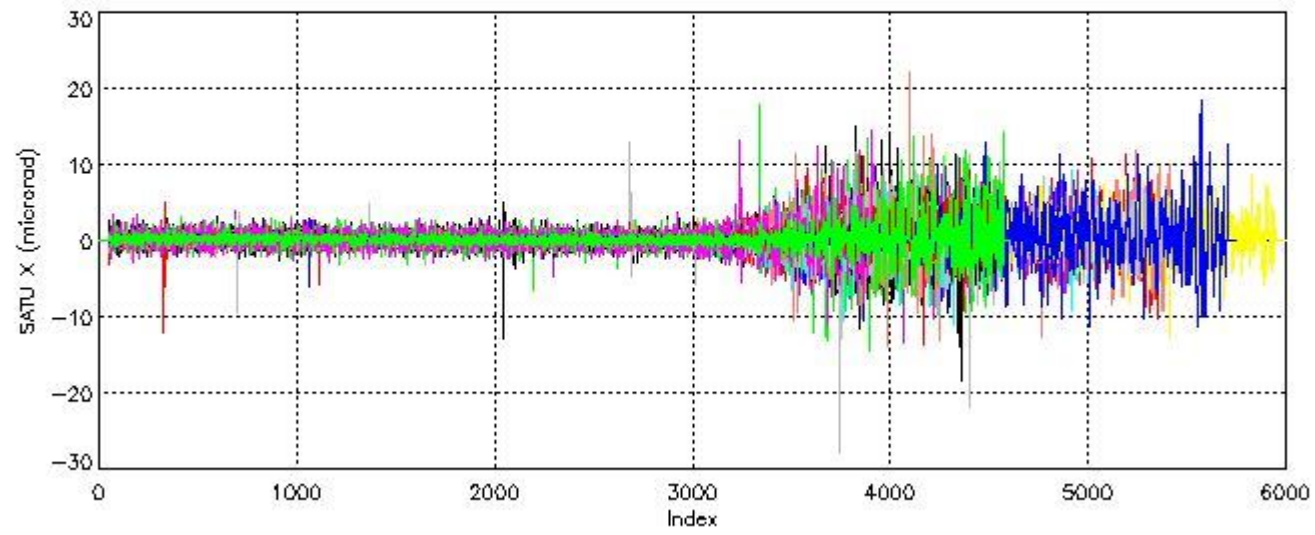


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19219	-1.2678	0.14628	-1.2721
St. deviation:	0.39138	1.0139	0.66726	1.2364
Maximum:	5.0000	3.7000	4.6000	3.6000
Minimum:	-12.000	-12.700	-3.3000	-5.8000

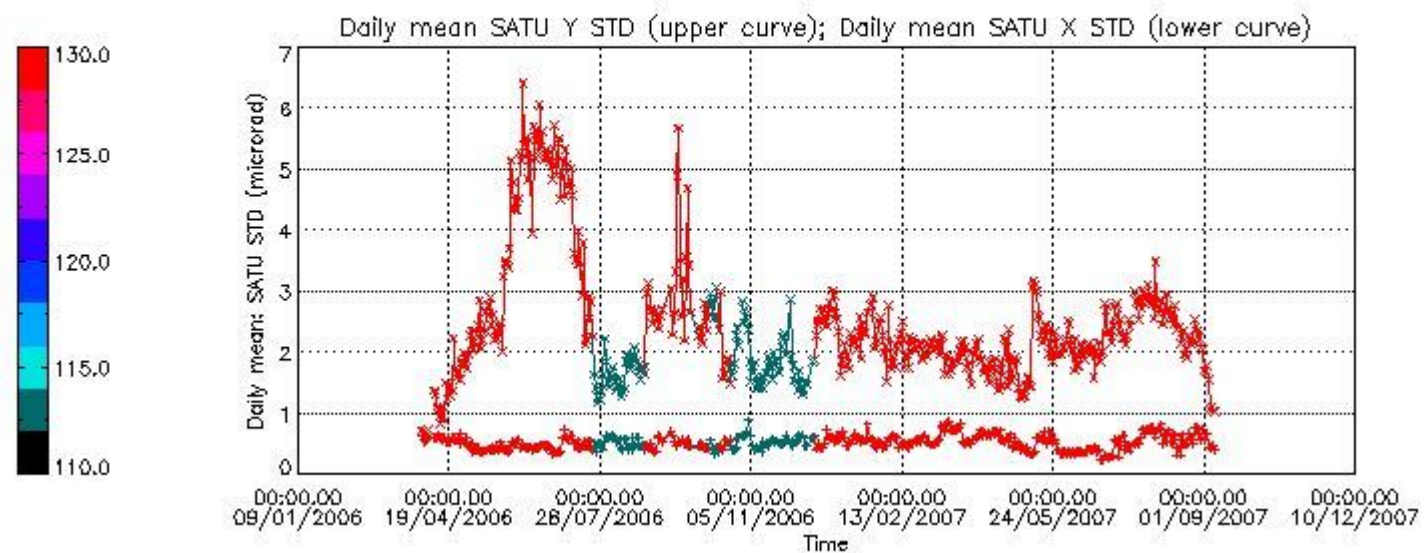
Number of data:	22250.	22250.	15200.	15200.
-----------------	--------	--------	--------	--------

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.

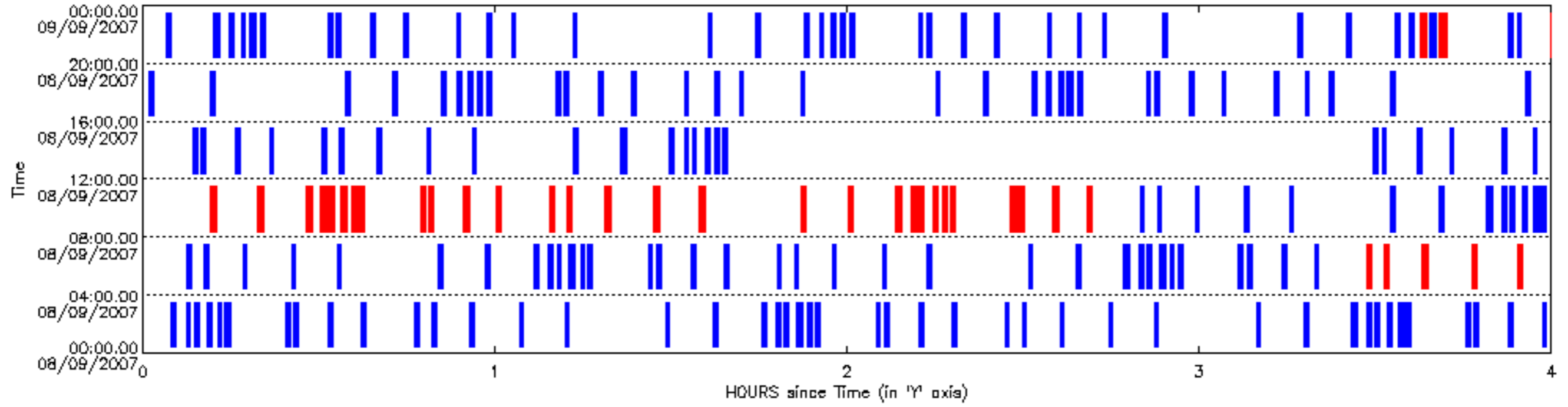
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

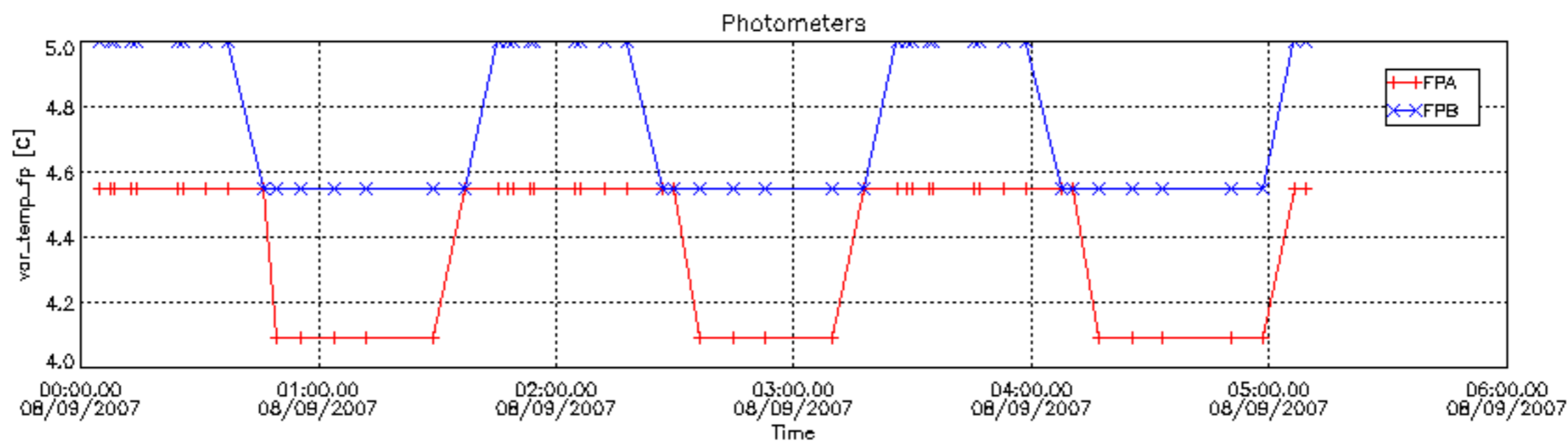
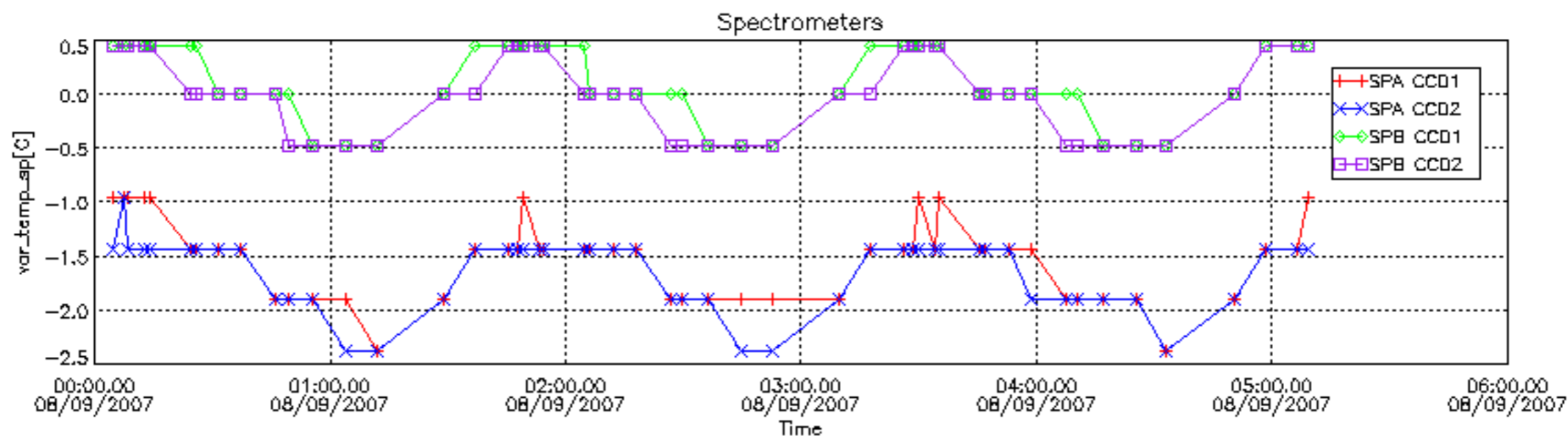


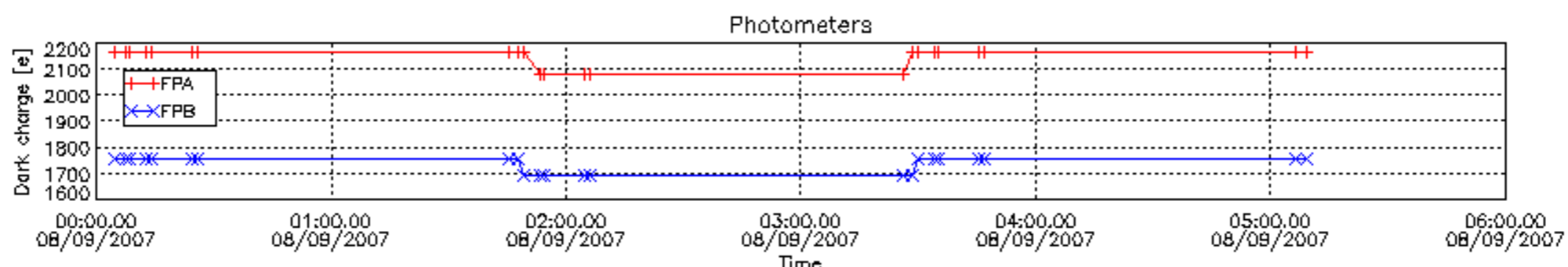
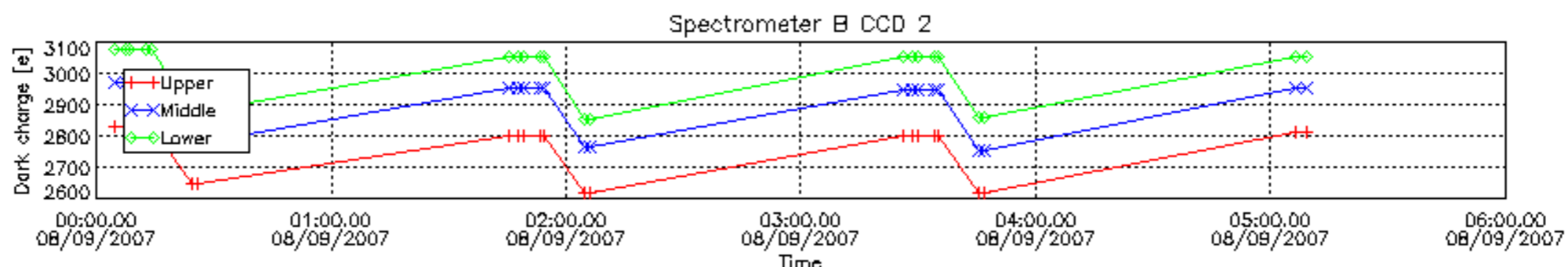
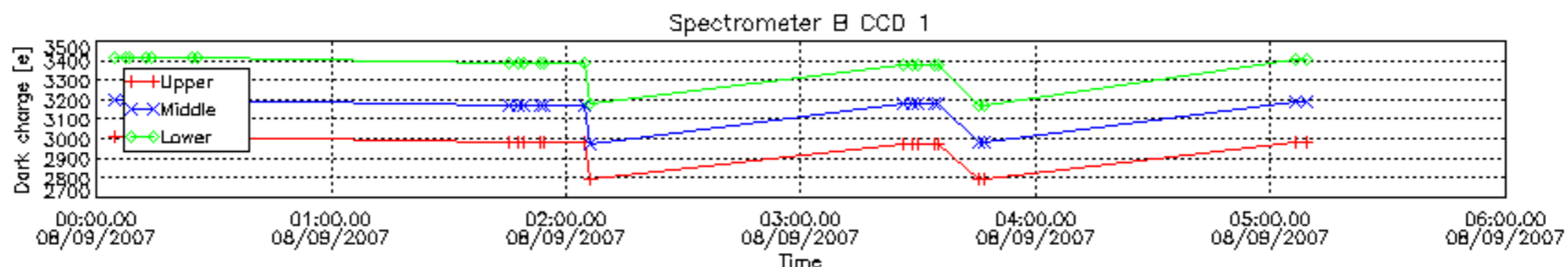
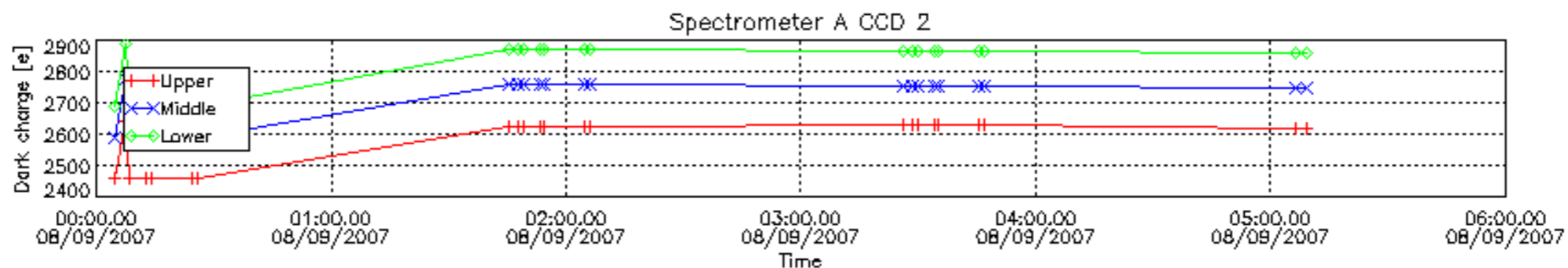
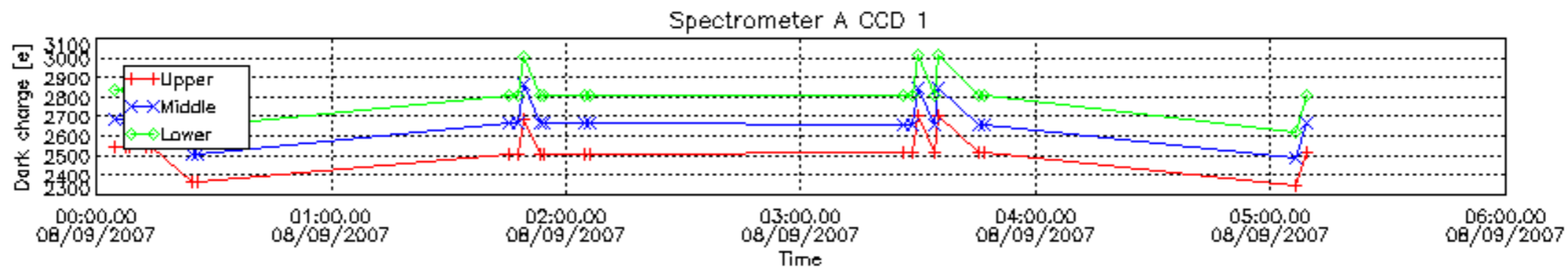
8. Auxiliary Data Files used for the production reported in section 2.4

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.

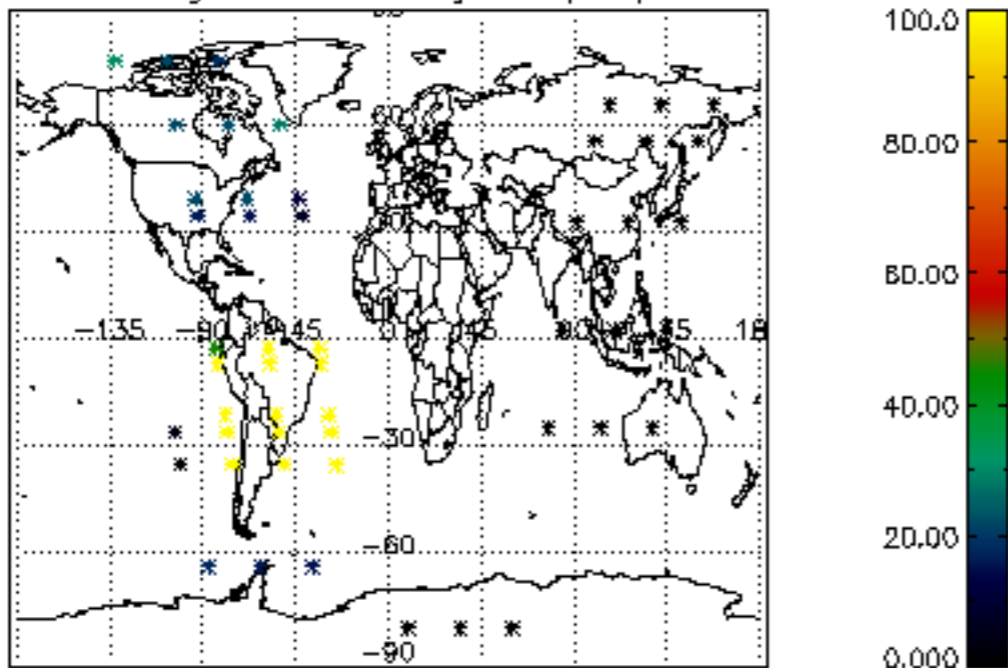
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	08-SEP-2007 00:04:43
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-SEP-2007 00:04:43
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-SEP-2007 00:04:43
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-SEP-2007 00:04:43
ECMWF_FILE	AUX_ECF_AXNECM20070907_072443_20070907_210000_20070908_090000	1	08-SEP-2007 00:04:43
ECMWF_FILE	AUX_ECF_AXNECM20070907_190119_20070908_030000_20070908_150000	31	08-SEP-2007 03:09:42
OPTIONAL_ECMWF_FILE	MISSING	1	08-SEP-2007 00:04:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070907_221855_000057382061_00258_28869_4129.N1	1	08-SEP-2007 00:04:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070907_235952_000054192061_00259_28870_4130.N1	17	08-SEP-2007 01:45:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070908_024953_000060572061_00261_28872_4132.N1	31	08-SEP-2007 03:09:42



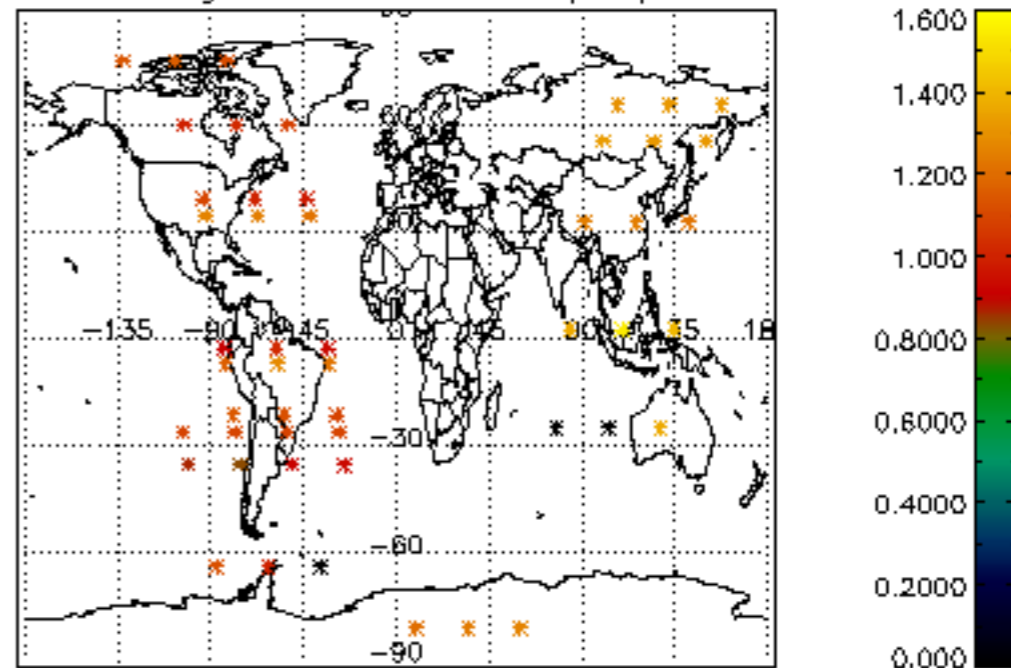




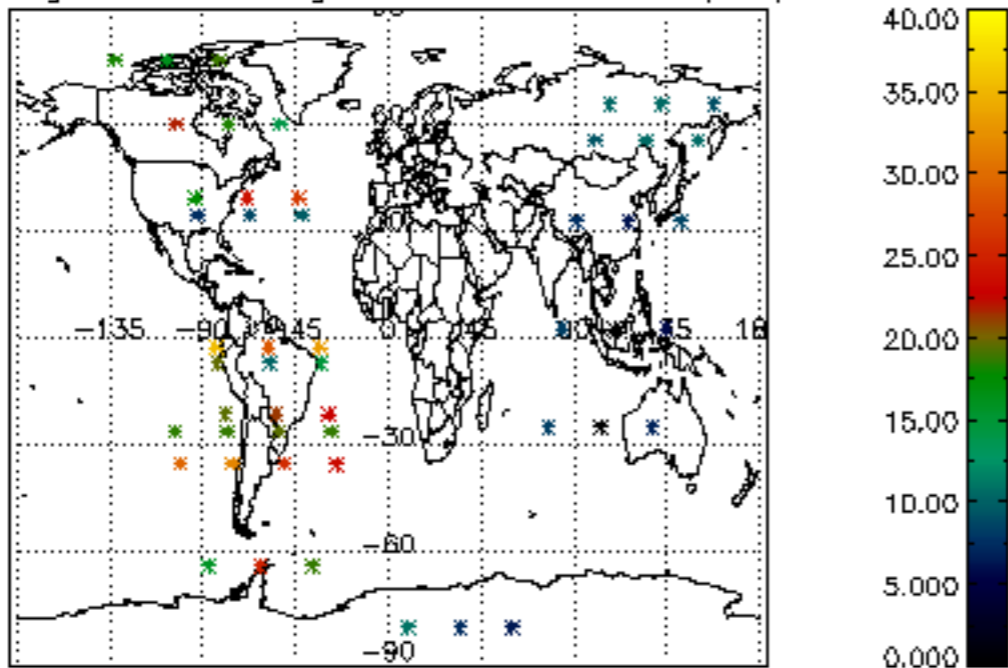
Percentage of cosmic ray hits per profile



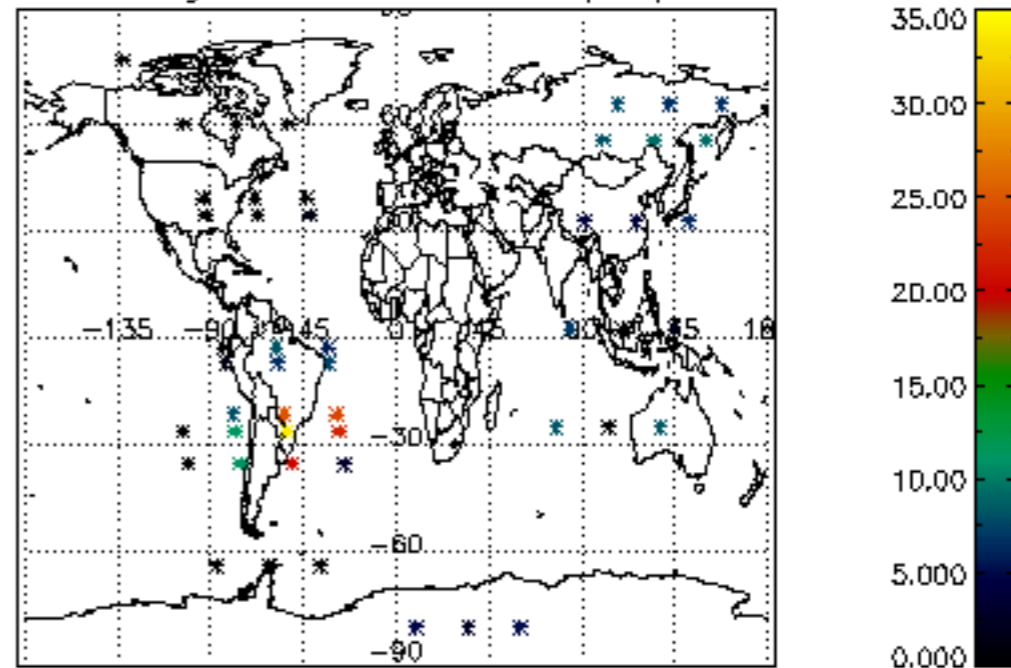
Percentage of datation errors per profile



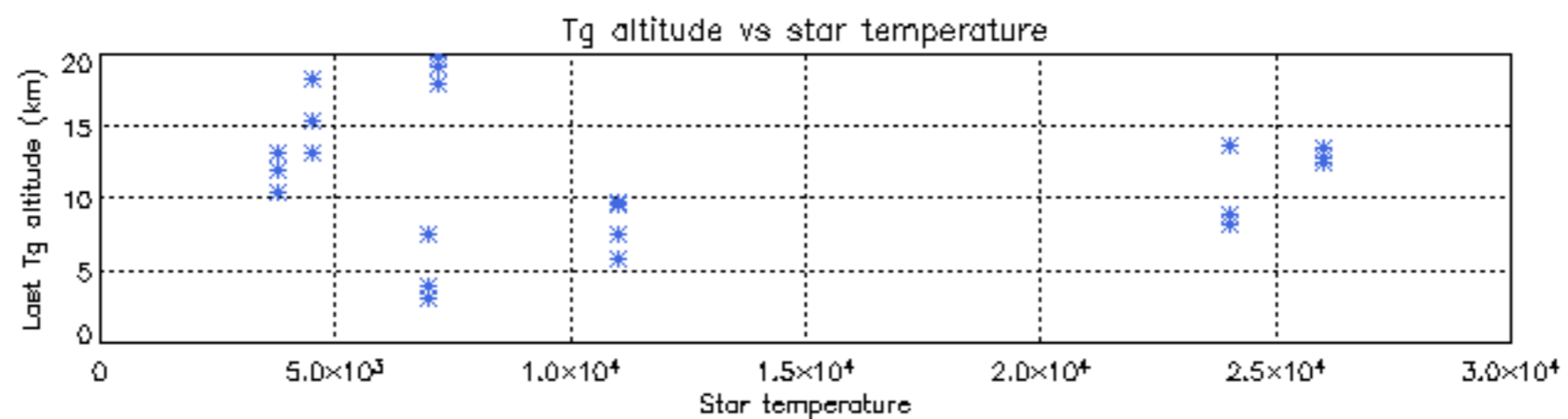
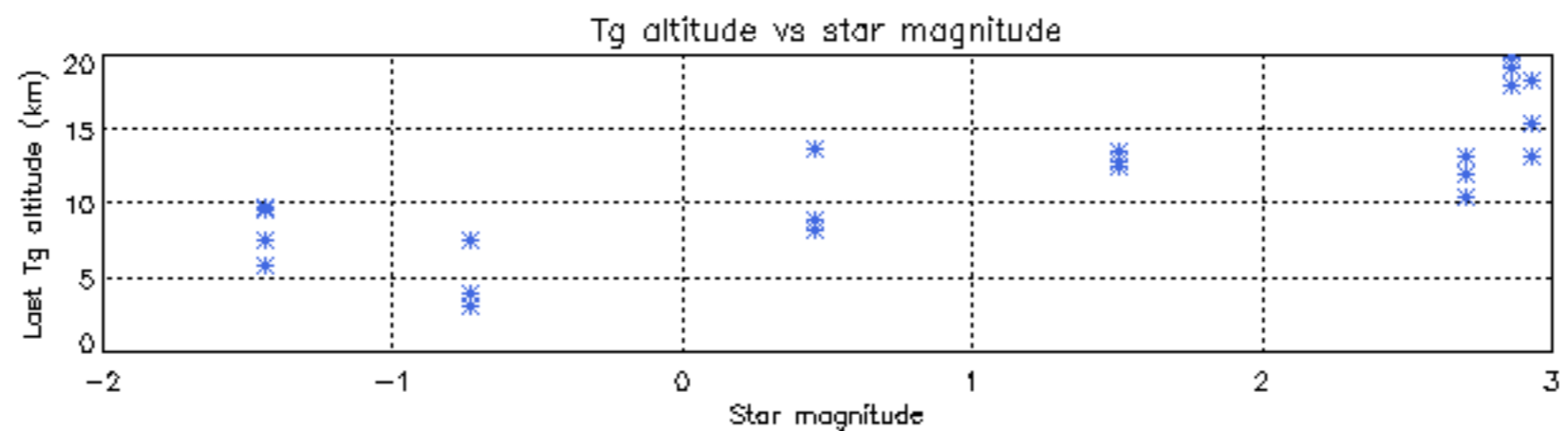
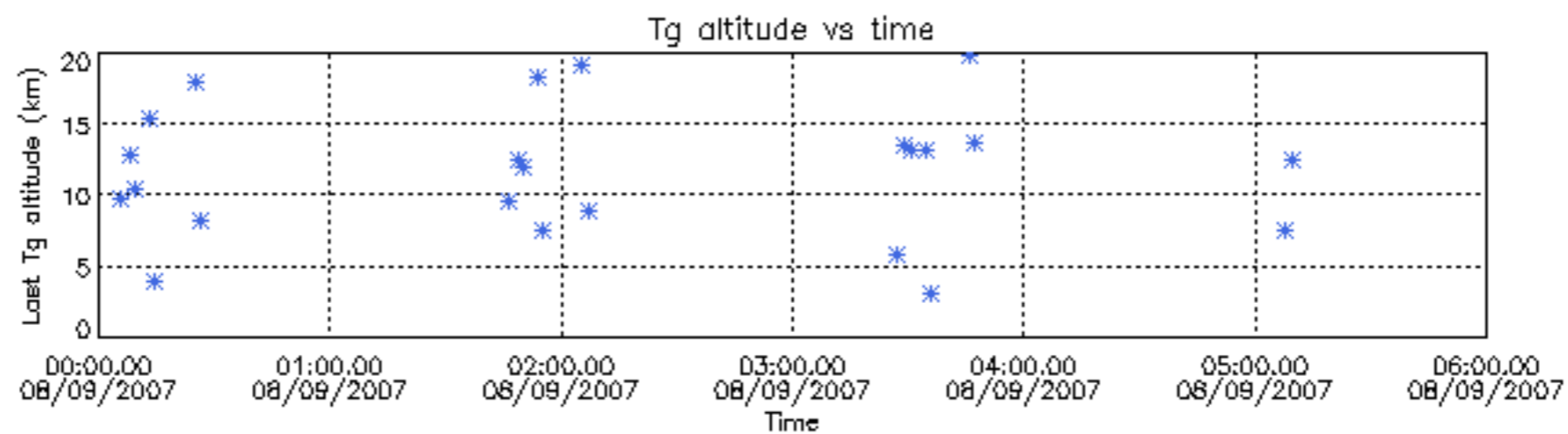
Percentage of star falling outside central band per profile



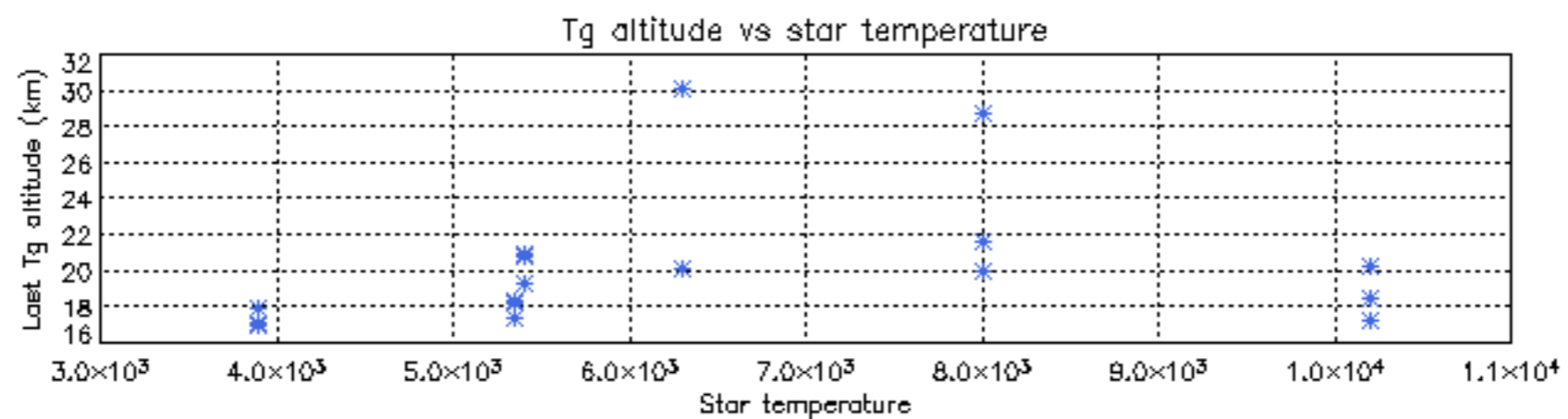
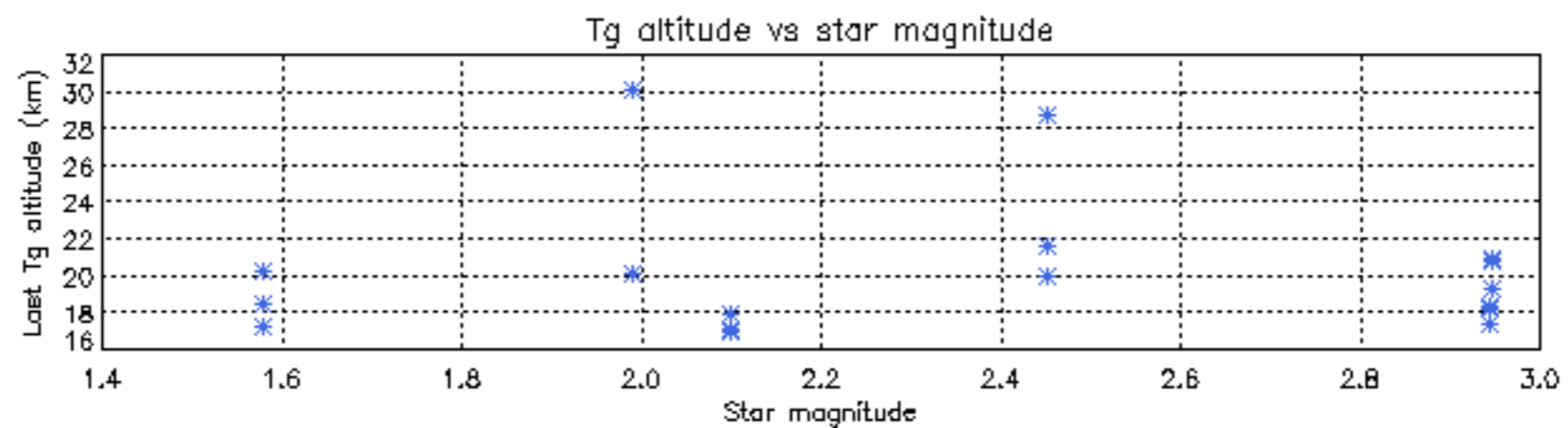
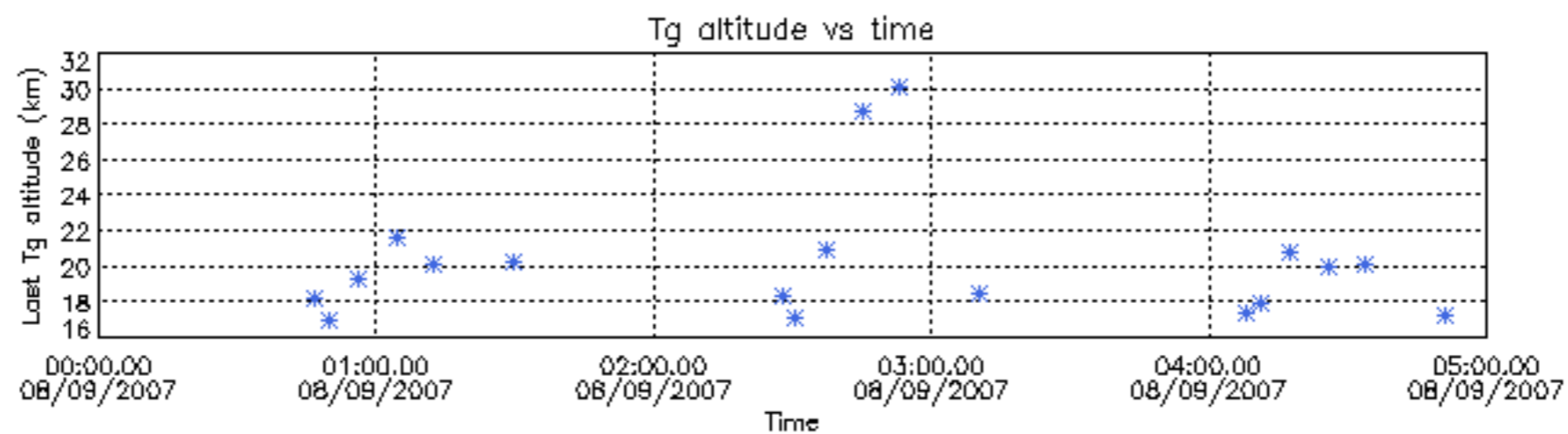
Percentage of saturation errors per profile



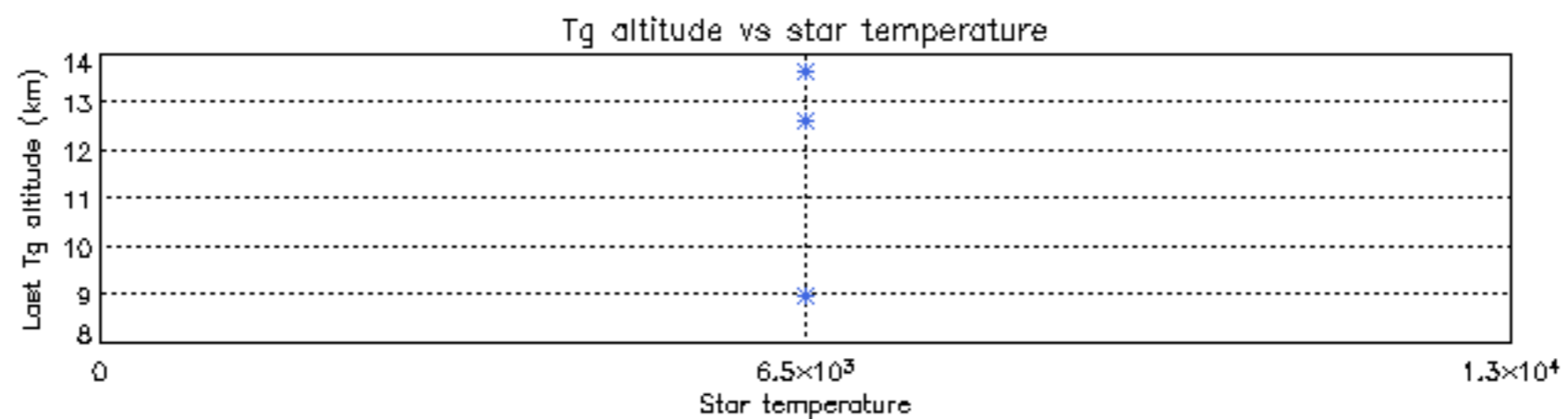
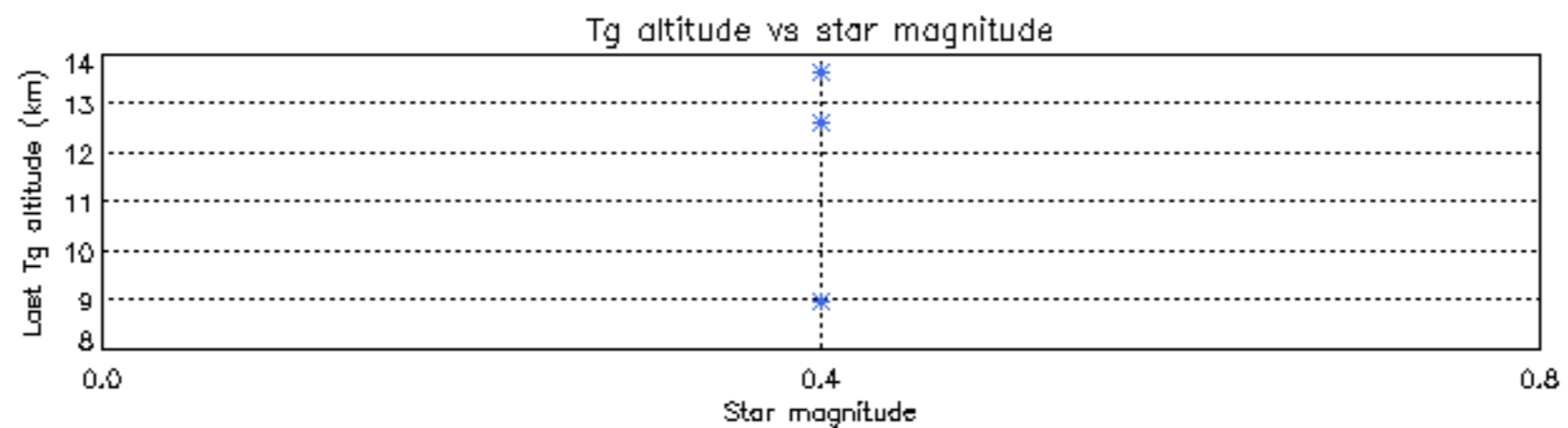
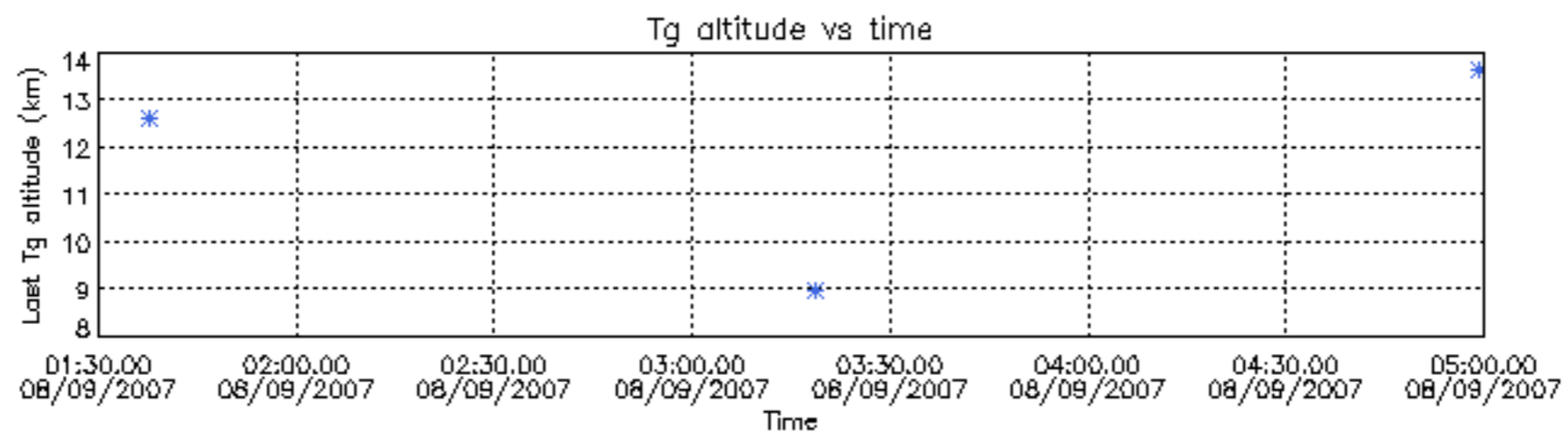
Tangent altitude at which the star is lost

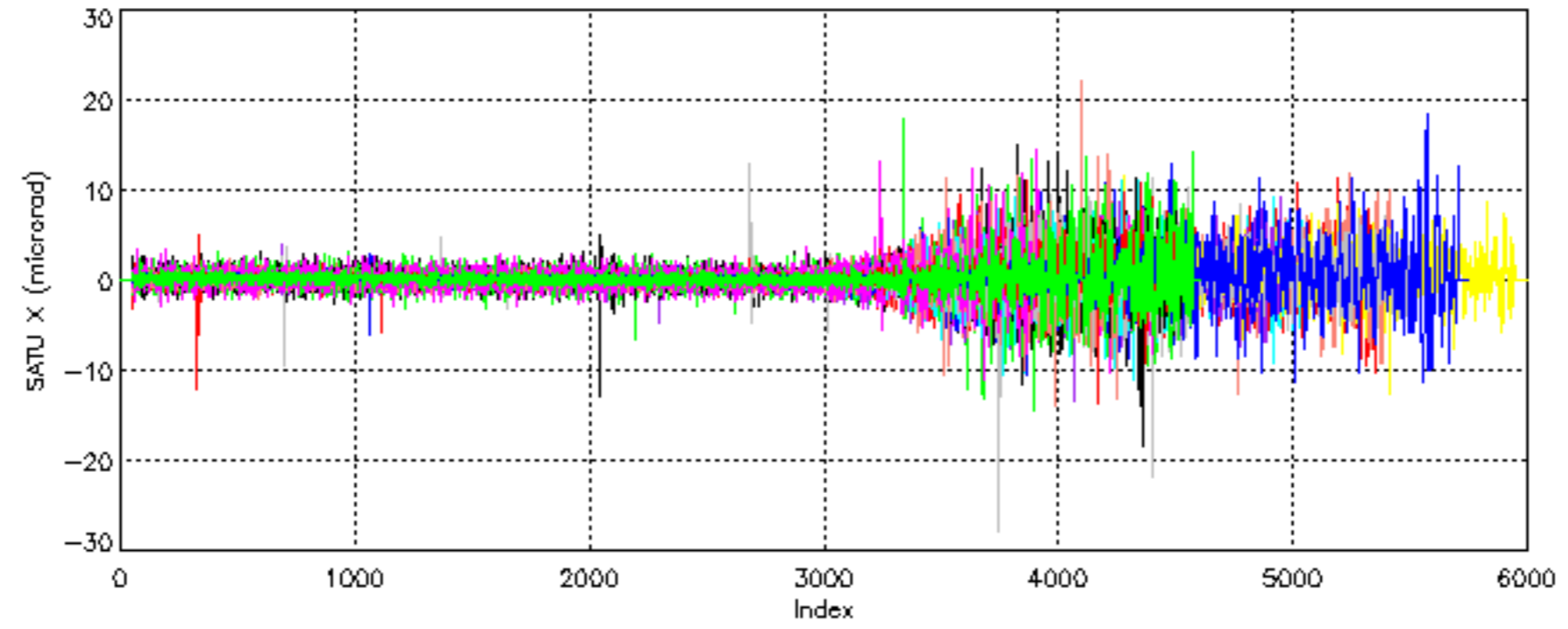


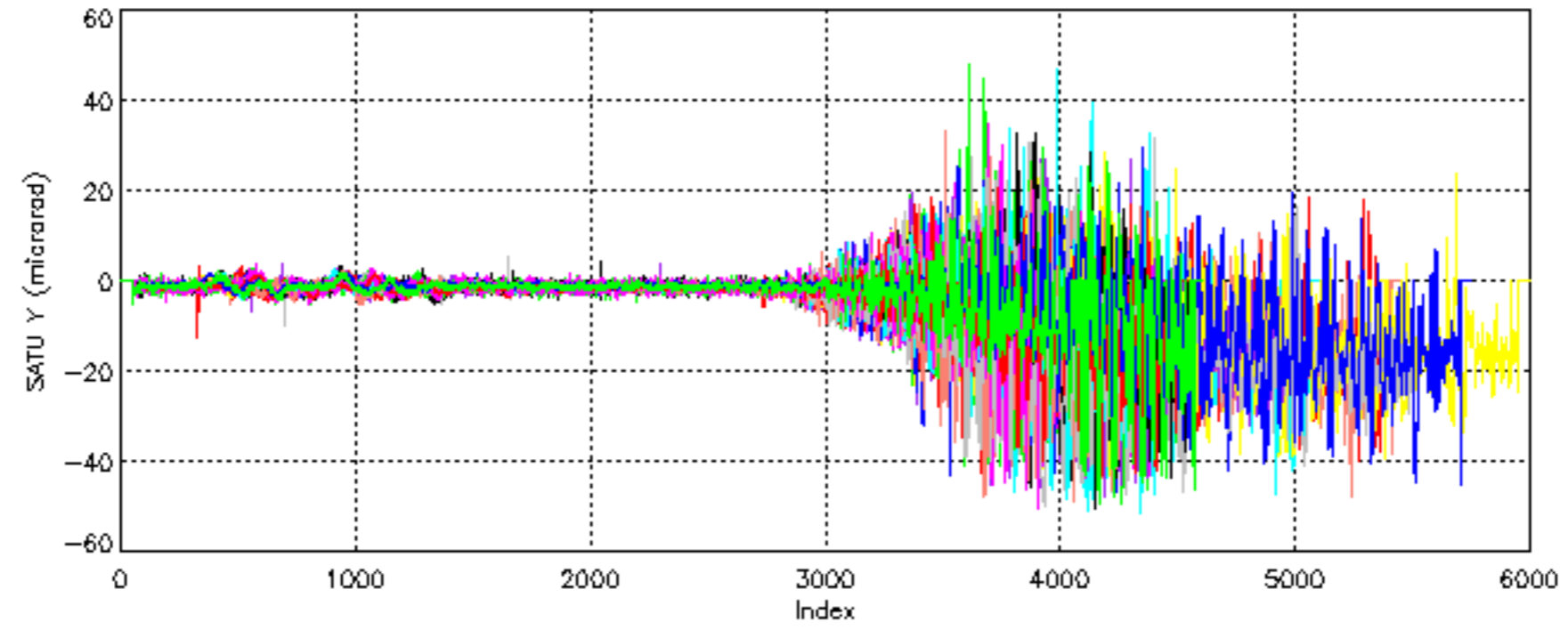
Tangent altitude at which the star is lost

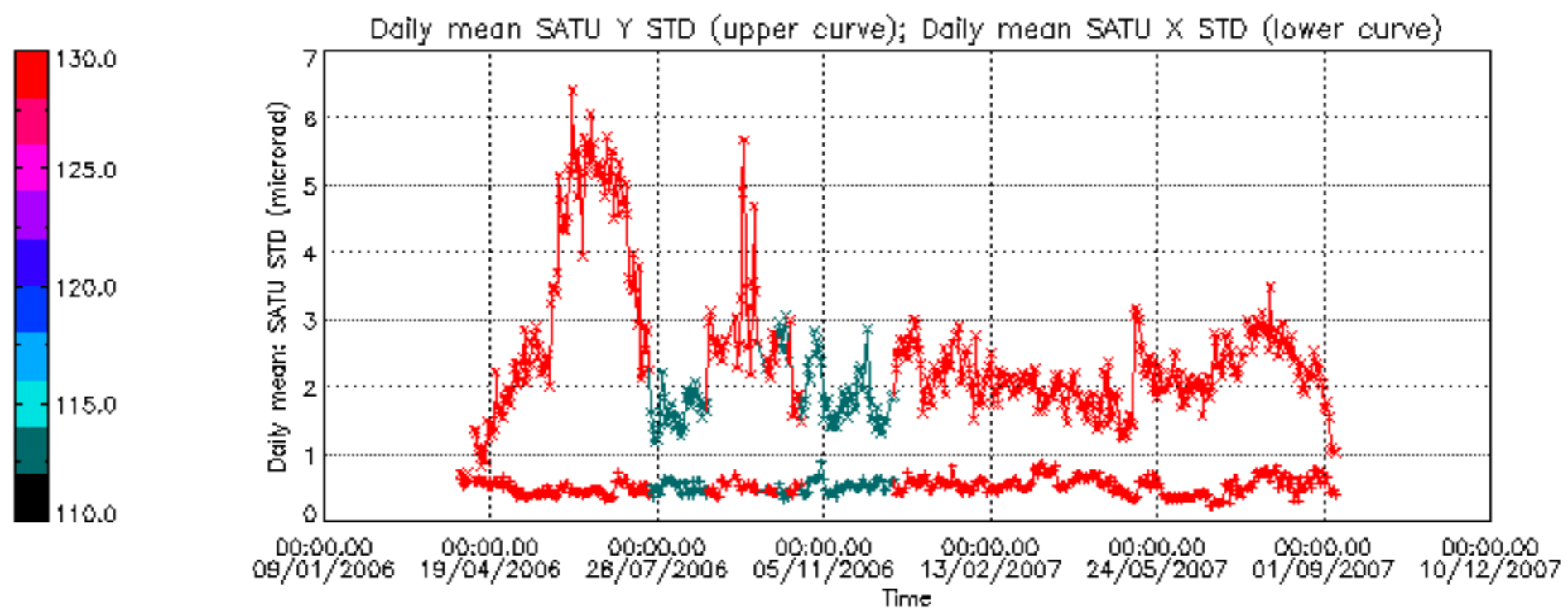


Tangent altitude at which the star is lost









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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
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 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
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 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771
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 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
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 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772
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 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
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 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772
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 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
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 3; -1245.6; 01-SEP-2007 03:35:14; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28772
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 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
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 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773
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 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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 2; -1424.8; 01-SEP-2007 05:12:51; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28773
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 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
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16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
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 4; 531.1; 01-SEP-2007 22:31:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28784
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8; 3434.6; 01-SEP-2007 19:58:38; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28782
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3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
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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
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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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7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

9; 1057.3; 02-SEP-2007 22:08:35; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 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
 14; 2074.8; 02-SEP-2007 22:25:33; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 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
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4;-1845.3; 04-SEP-2007 15:15:11; Bright; 88.0; 149; 45Eps Per ; 2.89; 30000;occ; 176; 0;28822
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