

GOMOS Daily Report 16-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	18SEP2007 09:01:51
Data source version	GOMOS/5.00
Start time of products	16-09-2007 (16SEP2007 00:00:00)
Stop time of products	17-09-2007 (17SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

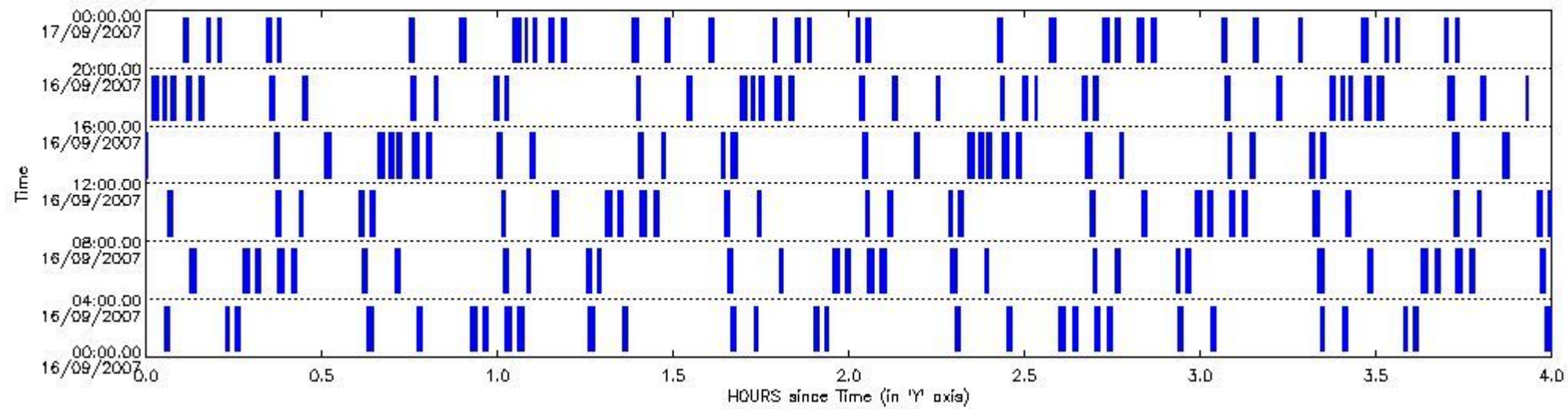
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

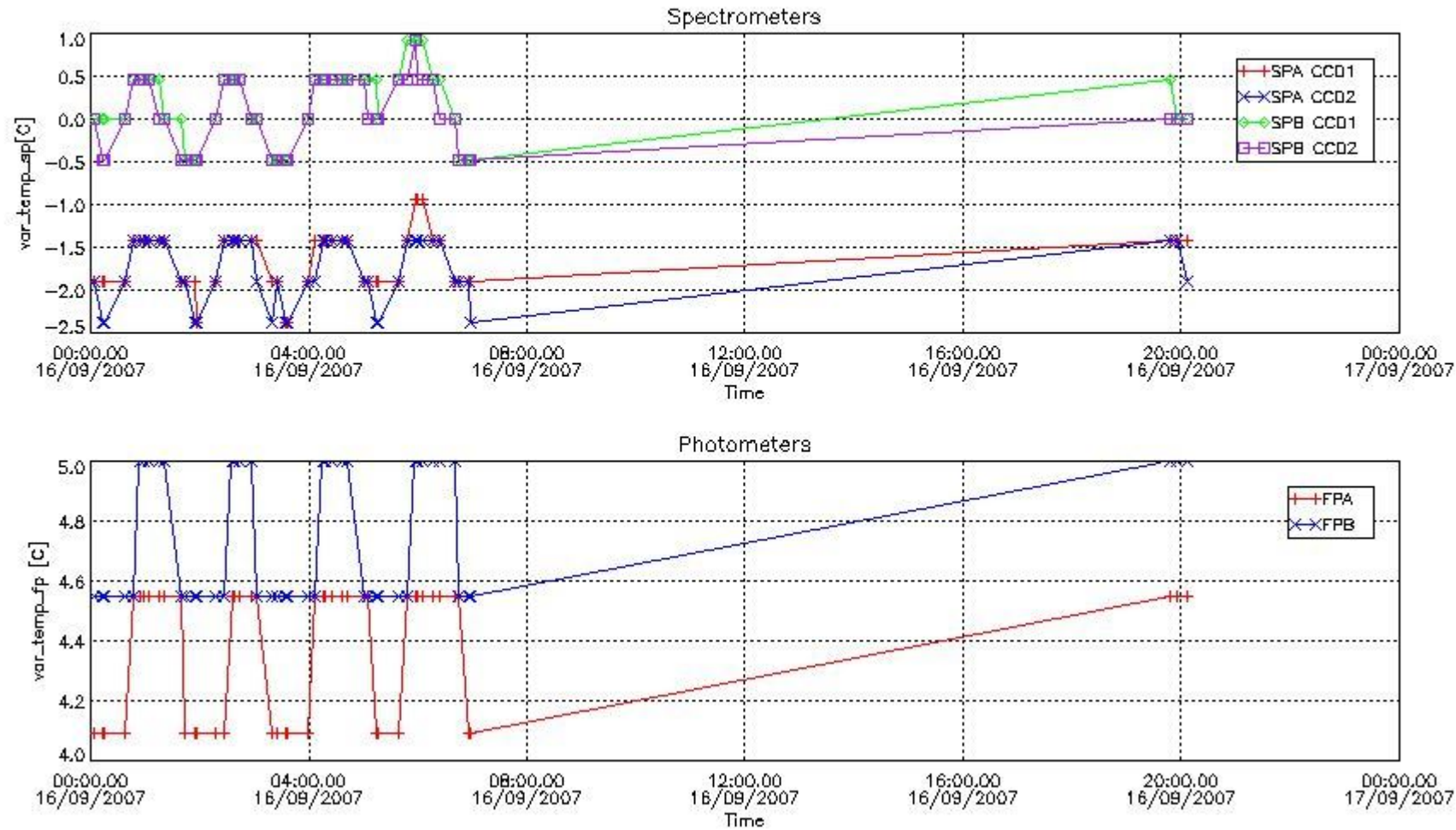
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070916_000308_000000422061_00374_28985_9314.N1	16-SEP-2007 00:03:08	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	28985	No
2	GOM_TRA_1PNPDE20070916_001325_000000372061_00374_28985_9315.N1	16-SEP-2007 00:13:25	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	28985	No
3	GOM_TRA_1PNPDE20070916_001514_000000402061_00374_28985_9316.N1	16-SEP-2007 00:15:14	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	28985	No
4	GOM_TRA_1PNPDE20070916_003736_000000622061_00374_28985_9317.N1	16-SEP-2007 00:37:36	Bright	62.000	24	66Alp Gem	1.5800	10200.	124	28985	No
5	GOM_TRA_1PNPDE20070916_004614_000000522061_00374_28985_9318.N1	16-SEP-2007 00:46:14	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	28985	No
6	GOM_TRA_1PNPDE20070916_005518_000000612061_00374_28985_9465.N1	16-SEP-2007 00:55:18	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	28985	No
7	GOM_TRA_1PNPDE20070916_005732_000000482061_00374_28985_9466.N1	16-SEP-2007 00:57:32	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	28985	No
8	GOM_TRA_1PNPDE20070916_010329_000000522061_00375_28986_9467.N1	16-SEP-2007 01:03:29	Dark	52.000	108	Alp Col	2.6520	15200.	104	28986	No
9	GOM_TRA_1PNPDE20070916_011533_000000552061_00375_28986_9468.N1	16-SEP-2007 01:15:33	Dark	55.000	157	The1Eri	2.9060	9300.0	110	28986	No
10	GOM_TRA_1PNPDE20070916_012116_000000472061_00375_28986_9469.N1	16-SEP-2007 01:21:16	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	28986	No
11	GOM_TRA_1PNPDE20070916_013951_000000402061_00375_28986_9470.N1	16-SEP-2007 01:39:51	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	28986	No
12	GOM_TRA_1PNPDE20070916_014344_000000382061_00375_28986_9471.N1	16-SEP-2007 01:43:44	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	28986	No

13	GOM_TRA_1PNPDE20070916_015400_000000412061_00375_28986_9472.N1	16-SEP-2007 01:54:00	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	28986	No
14	GOM_TRA_1PNPDE20070916_015549_000000422061_00375_28986_9473.N1	16-SEP-2007 01:55:49	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	28986	No
15	GOM_TRA_1PNPDE20070916_021812_000000432061_00375_28986_9614.N1	16-SEP-2007 02:18:12	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	28986	No
16	GOM_TRA_1PNPDE20070916_022651_000000522061_00375_28986_9615.N1	16-SEP-2007 02:26:51	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	28986	No
17	GOM_TRA_1PNPDE20070916_023555_000000652061_00375_28986_9616.N1	16-SEP-2007 02:35:55	Dark	64.500	1	9Alp CMa	-1.4400	11000.	129	28986	No
18	GOM_TRA_1PNPDE20070916_023809_000000462061_00375_28986_9617.N1	16-SEP-2007 02:38:09	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	28986	No
19	GOM_TRA_1PNPDE20070916_024406_000000512061_00376_28987_9618.N1	16-SEP-2007 02:44:06	Dark	50.500	108	Alp Col	2.6520	15200.	101	28987	No
20	GOM_TRA_1PNPDE20070916_025610_000000552061_00376_28987_9619.N1	16-SEP-2007 02:56:10	Dark	55.000	157	The1Eri	2.9060	9300.0	110	28987	No
21	GOM_TRA_1PNPDE20070916_030152_000000432061_00376_28987_9620.N1	16-SEP-2007 03:01:52	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	28987	No
22	GOM_TRA_1PNPDE20070916_032027_000000392061_00376_28987_9621.N1	16-SEP-2007 03:20:27	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	28987	No
23	GOM_TRA_1PNPDE20070916_032420_000000392061_00376_28987_9622.N1	16-SEP-2007 03:24:20	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	28987	No
24	GOM_TRA_1PNPDE20070916_033436_000000412061_00376_28987_9623.N1	16-SEP-2007 03:34:36	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	28987	No
25	GOM_TRA_1PNPDE20070916_033624_000000392061_00376_28987_9624.N1	16-SEP-2007 03:36:24	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	28987	No
26	GOM_TRA_1PNPDE20070916_035848_000000622061_00376_28987_9789.N1	16-SEP-2007 03:58:48	Bright	61.500	24	66Alp Gem	1.5800	10200.	123	28987	No
27	GOM_TRA_1PNPDE20070916_040727_000000542061_00376_28987_9790.N1	16-SEP-2007 04:07:27	Twilight	54.000	8	10Alp CMi	0.40000	6500.0	108	28987	No
28	GOM_TRA_1PNPDE20070916_041632_000000632061_00376_28987_9791.N1	16-SEP-2007 04:16:32	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	28987	No
29	GOM_TRA_1PNPDE20070916_041846_000000472061_00376_28987_9792.N1	16-SEP-2007 04:18:46	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	28987	No
30	GOM_TRA_1PNPDE20070916_042443_000000512061_00377_28988_9793.N1	16-SEP-2007 04:24:43	Dark	51.000	108	Alp Col	2.6520	15200.	102	28988	No
31	GOM_TRA_1PNPDE20070916_043646_000000562061_00377_28988_9794.N1	16-SEP-2007 04:36:46	Dark	56.000	157	The1Eri	2.9060	9300.0	112	28988	No
32	GOM_TRA_1PNPDE20070916_044229_000000452061_00377_28988_9795.N1	16-SEP-2007 04:42:29	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	28988	No
33	GOM_TRA_1PNPDE20070916_050103_000000402061_00377_28988_9796.N1	16-SEP-2007 05:01:03	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	28988	No
34	GOM_TRA_1PNPDE20070916_050455_000000382061_00377_28988_9797.N1	16-SEP-2007 05:04:55	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	28988	No
35	GOM_TRA_1PNPDE20070916_051511_000000422061_00377_28988_9798.N1	16-SEP-2007 05:15:11	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	28988	No
36	GOM_TRA_1PNPDE20070916_051700_000000432061_00377_28988_9799.N1	16-SEP-2007 05:17:00	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	28988	No
37	GOM_TRA_1PNPDE20070916_053924_000000452061_00377_28988_9944.N1	16-SEP-2007 05:39:24	Bright	45.000	24	66Alp Gem	1.5800	10200.	90	28988	No
38	GOM_TRA_1PNPDE20070916_054804_000000412061_00377_28988_9945.N1	16-SEP-2007 05:48:04	Twilight	40.500	8	10Alp CMi	0.40000	6500.0	81	28988	No
39	GOM_TRA_1PNPDE20070916_055709_000000632061_00377_28988_9946.N1	16-SEP-2007 05:57:09	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	28988	No
40	GOM_TRA_1PNPDE20070916_055923_000000472061_00377_28988_9947.N1	16-SEP-2007 05:59:23	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	28988	No
41	GOM_TRA_1PNPDE20070916_060520_000000552061_00378_28989_9948.N1	16-SEP-2007 06:05:20	Dark	55.000	108	Alp Col	2.6520	15200.	110	28989	No
42	GOM_TRA_1PNPDE20070916_061724_000000552061_00378_28989_9949.N1	16-SEP-2007 06:17:24	Dark	54.500	157	The1Eri	2.9060	9300.0	109	28989	No
43	GOM_TRA_1PNPDE20070916_062305_000000452061_00378_28989_9950.N1	16-SEP-2007 06:23:05	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	28989	No
44	GOM_TRA_1PNPDE20070916_064139_000000392061_00378_28989_9951.N1	16-SEP-2007 06:41:39	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	28989	No
45	GOM_TRA_1PNPDE20070916_064531_000000412061_00378_28989_9952.N1	16-SEP-2007 06:45:31	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	28989	No
46	GOM_TRA_1PNPDE20070916_065547_000000412061_00378_28989_9953.N1	16-SEP-2007 06:55:47	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	28989	No
47	GOM_TRA_1PNPDE20070916_065735_000000422061_00378_28989_9954.N1	16-SEP-2007 06:57:35	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	28989	No
48	GOM_TRA_1PNPDE20070916_194756_000000442061_00386_28997_0298.N1	16-SEP-2007 19:47:56	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	28997	No
49	GOM_TRA_1PNPDE20070916_195534_000000282061_00386_28997_0299.N1	16-SEP-2007 19:55:34	Tw_and_stray	28.000	52	16Bet Cet	2.0370	4500.0	56	28997	No
50	GOM_TRA_1PNPDE20070916_200624_000000402061_00386_28997_0300.N1	16-SEP-2007 20:06:24	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	28997	No

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



4. Overview of dark signal processing per product

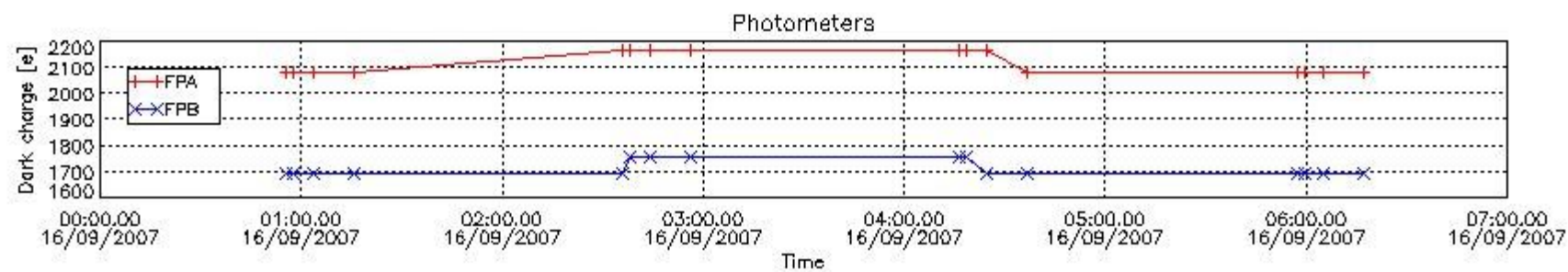
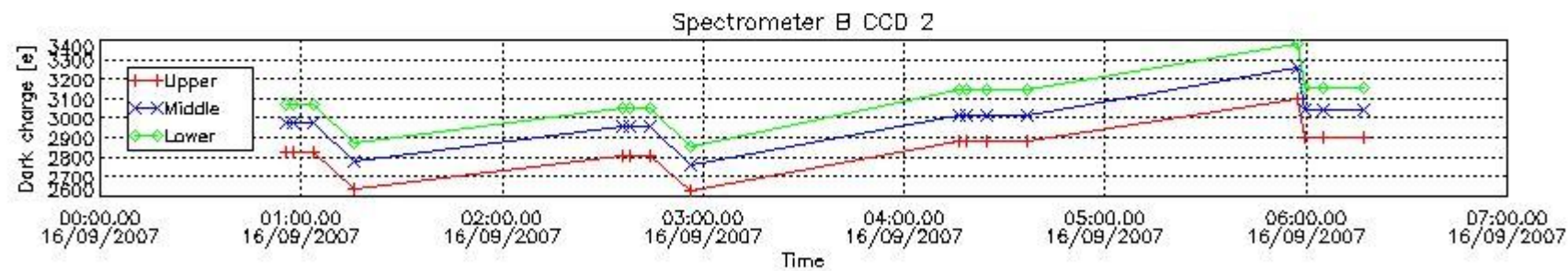
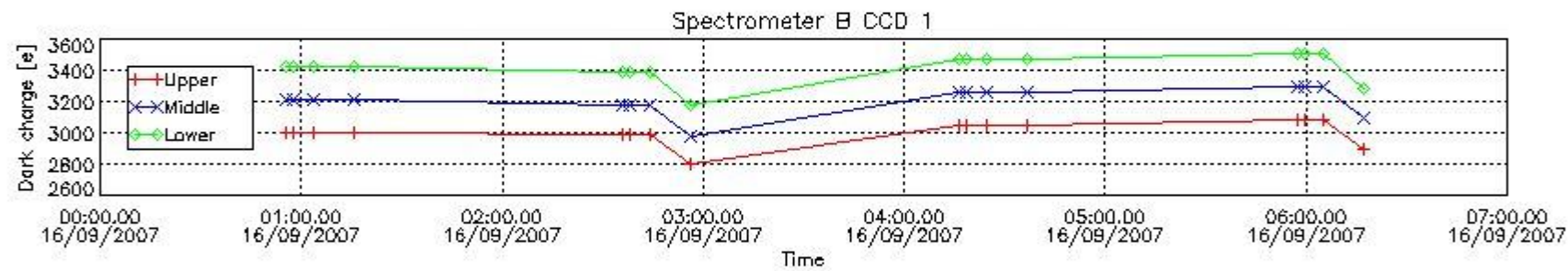
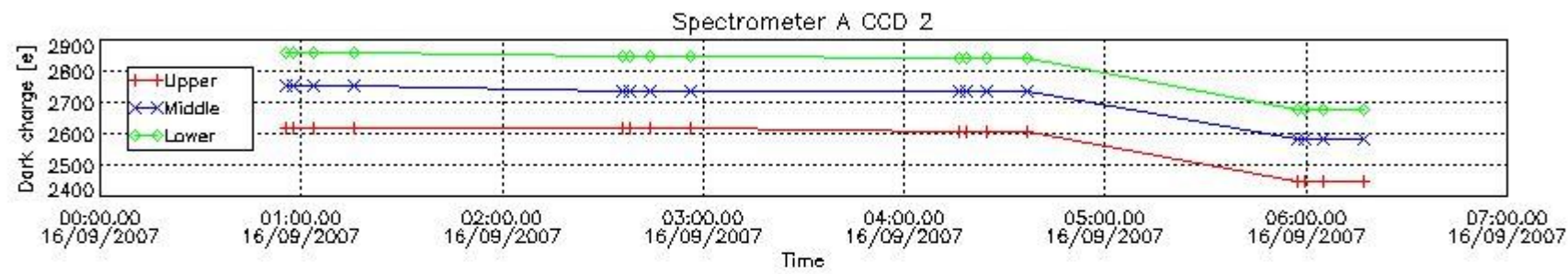
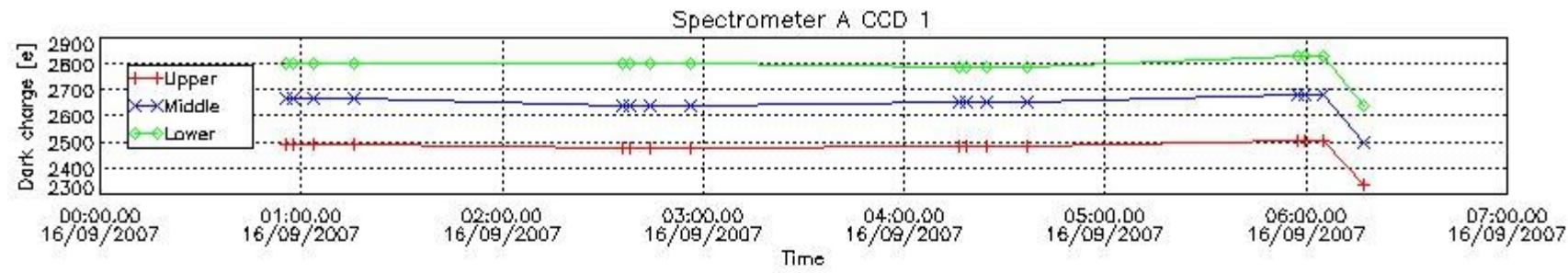
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20070916_194756_000000442061_00386_28997_0298.N1	DC map used
GOM_TRA_1PNPDE20070916_195534_000000282061_00386_28997_0299.N1	DC map used
GOM_TRA_1PNPDE20070916_200624_000000402061_00386_28997_0300.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



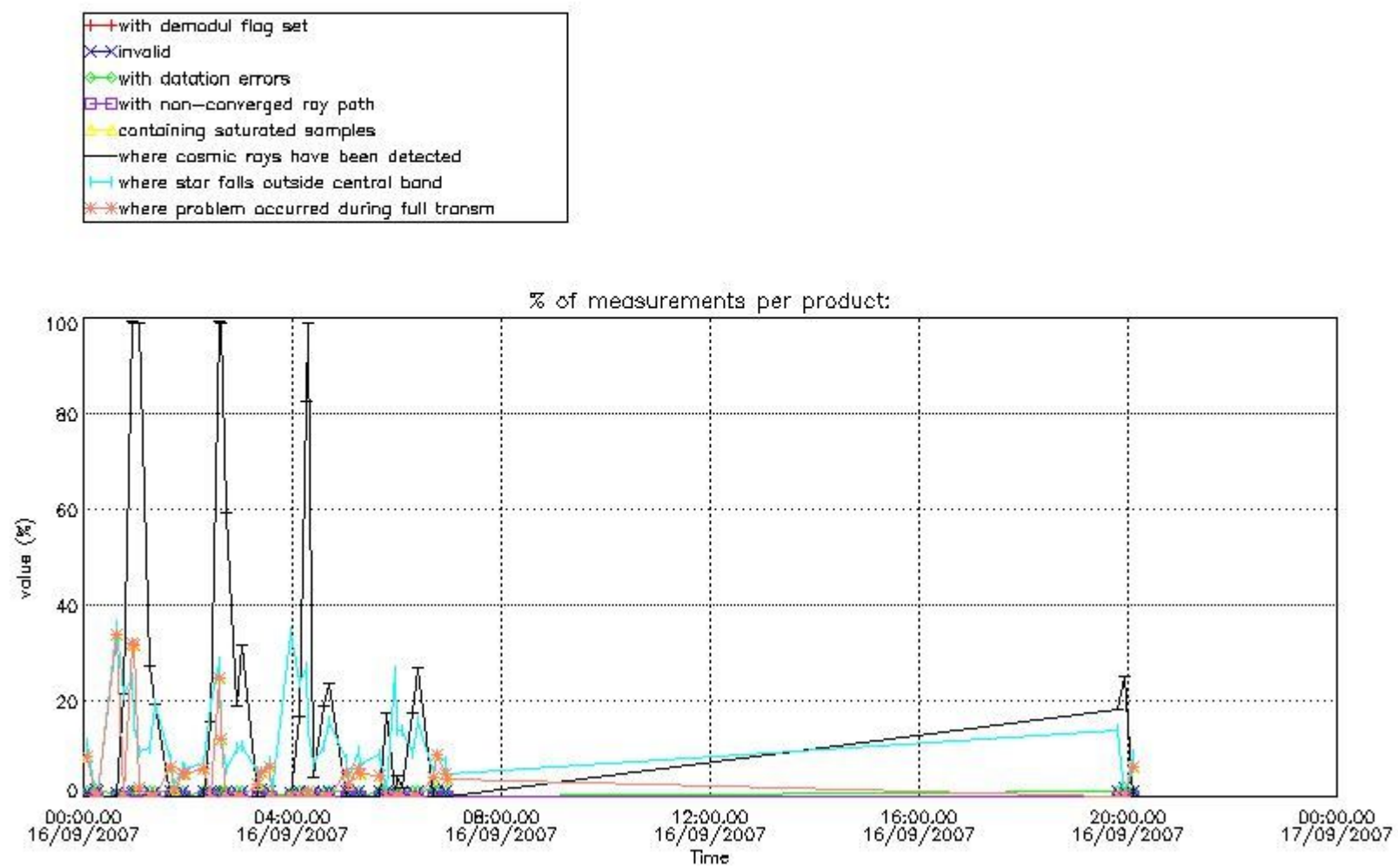
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

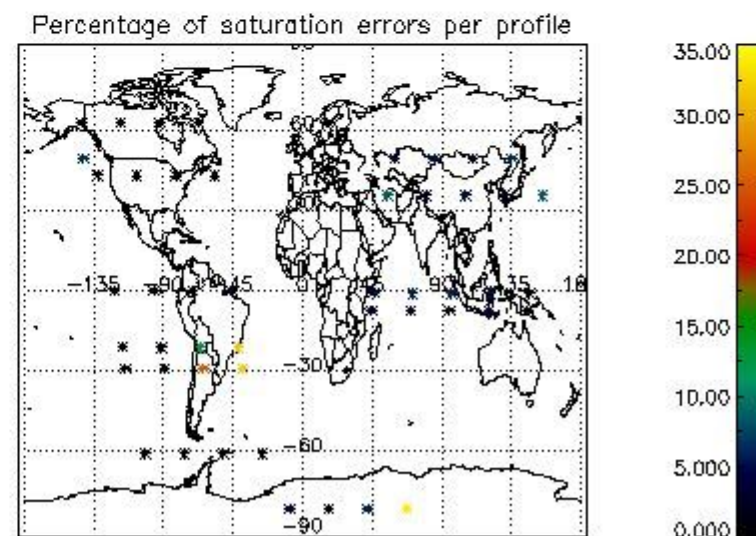
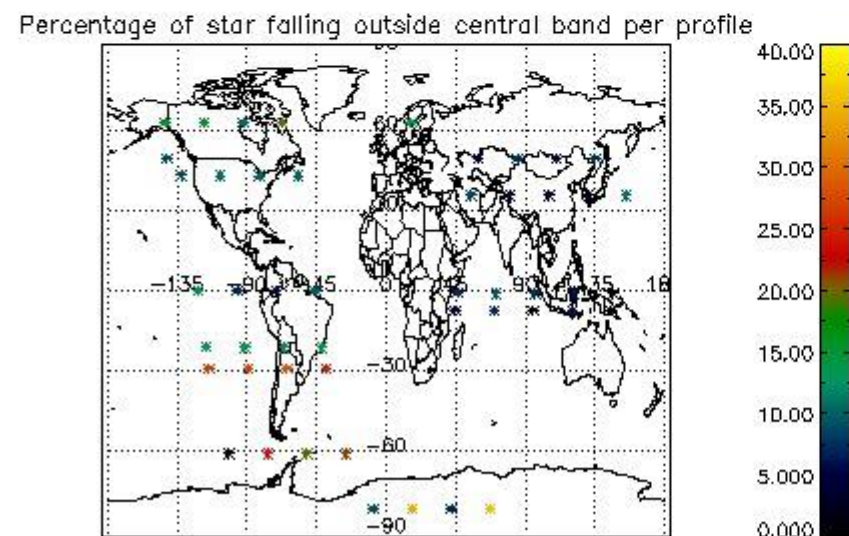
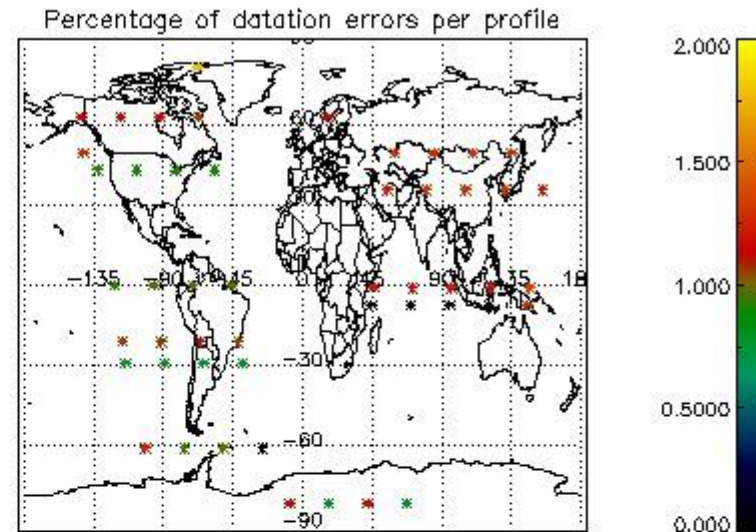
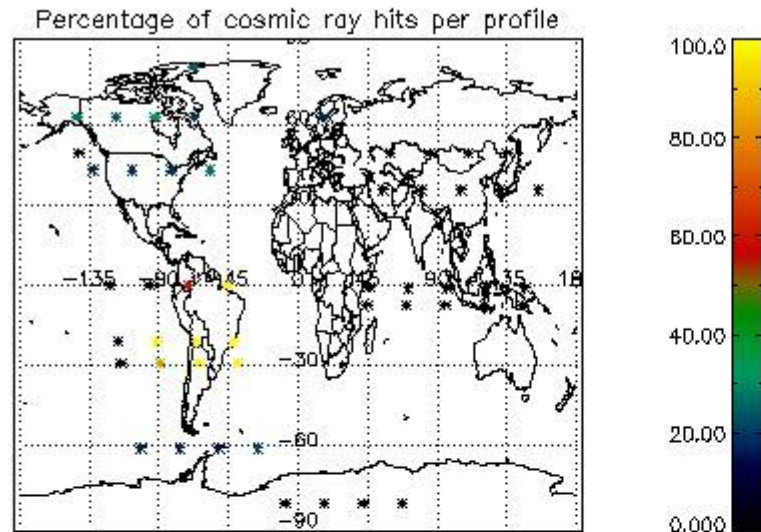
5.1 Percentage of products during reporting period with:

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

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



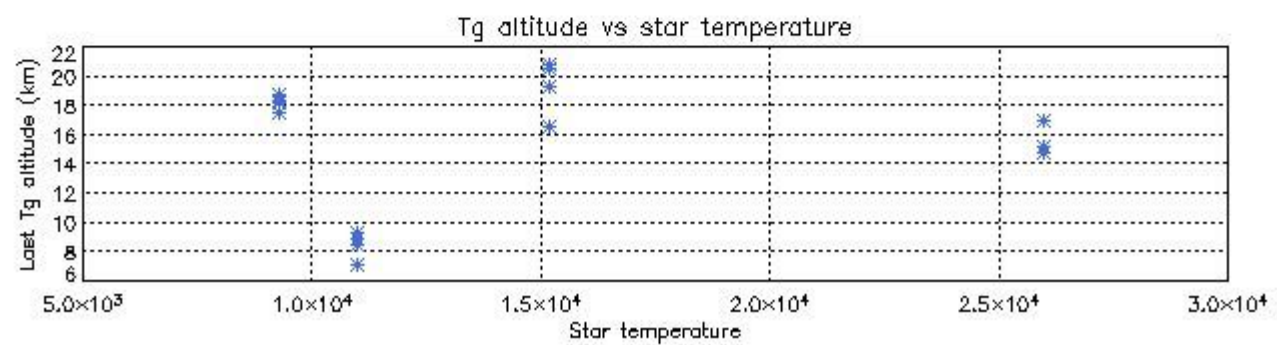
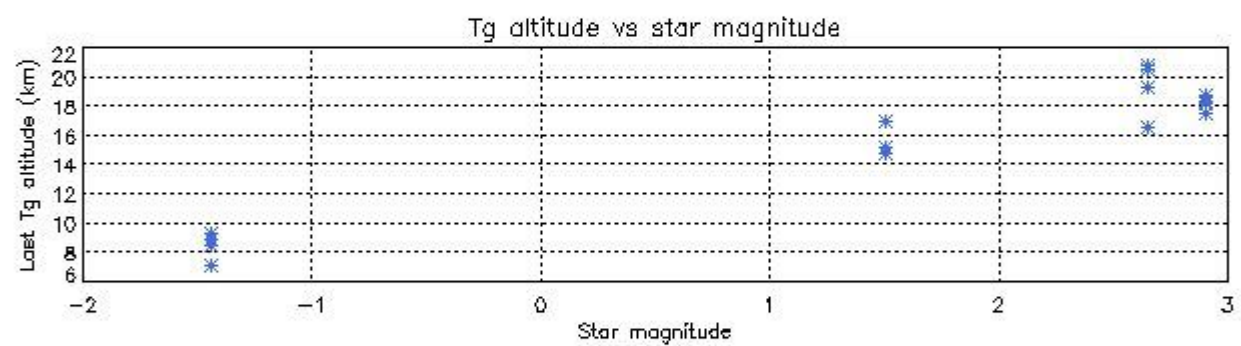
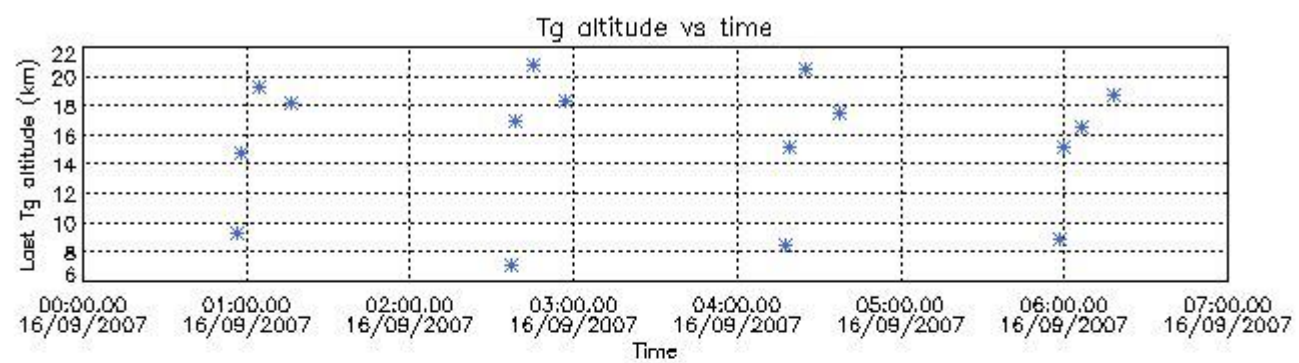
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.357	20.199	14.358
St. deviation:	4.4946	5.7329	7.2116
Maximum:	20.811	29.687	25.115
Minimum:	7.1089	4.1292	9.7013
Number of data:	16.000	24.000	4.0000

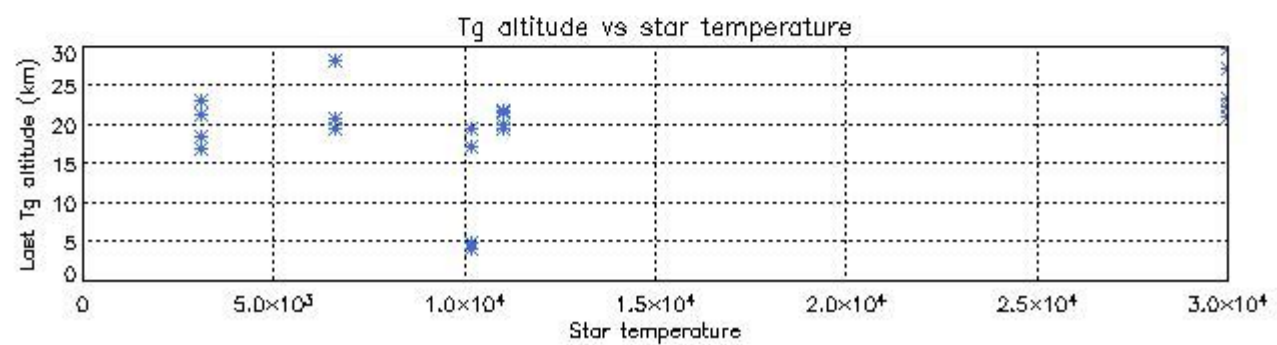
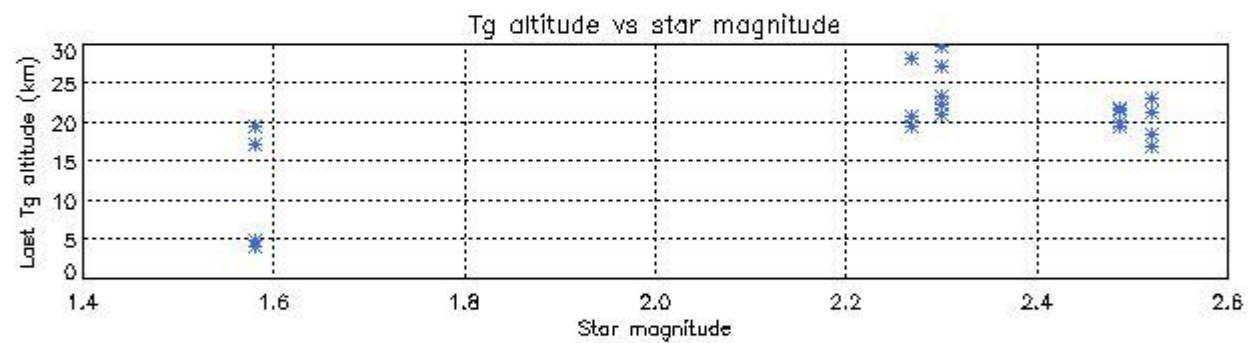
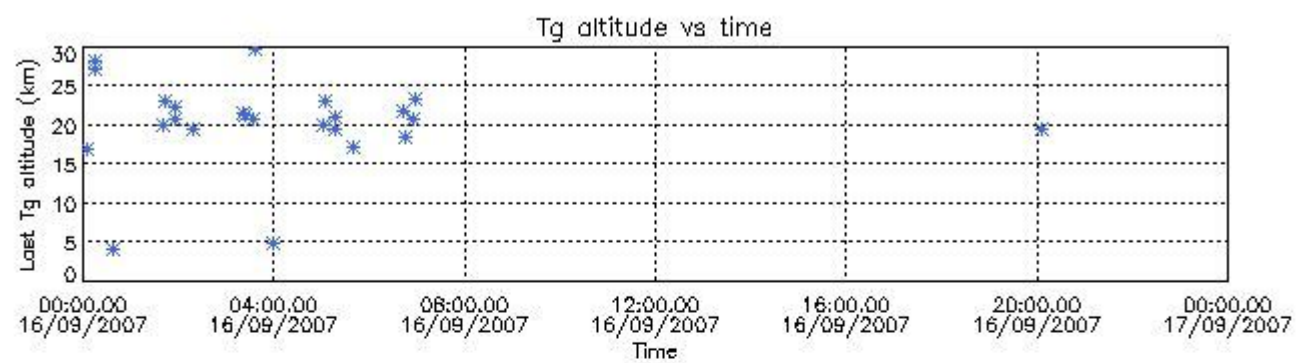
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



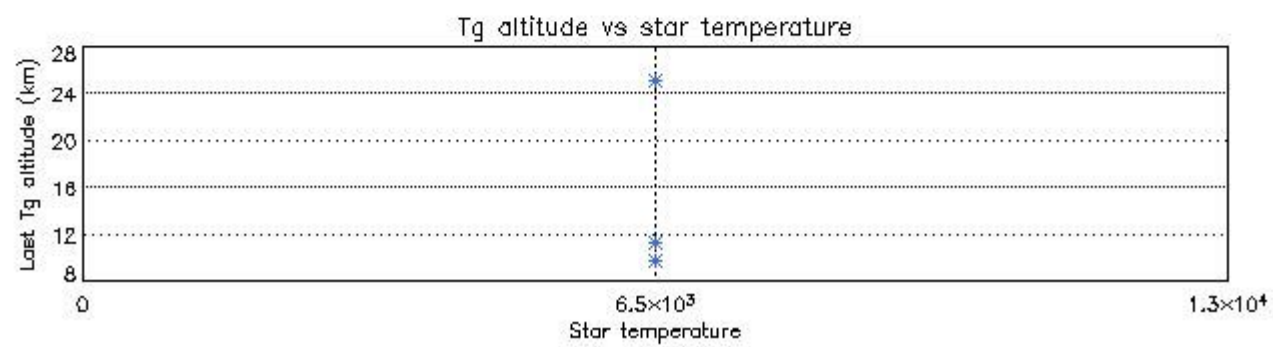
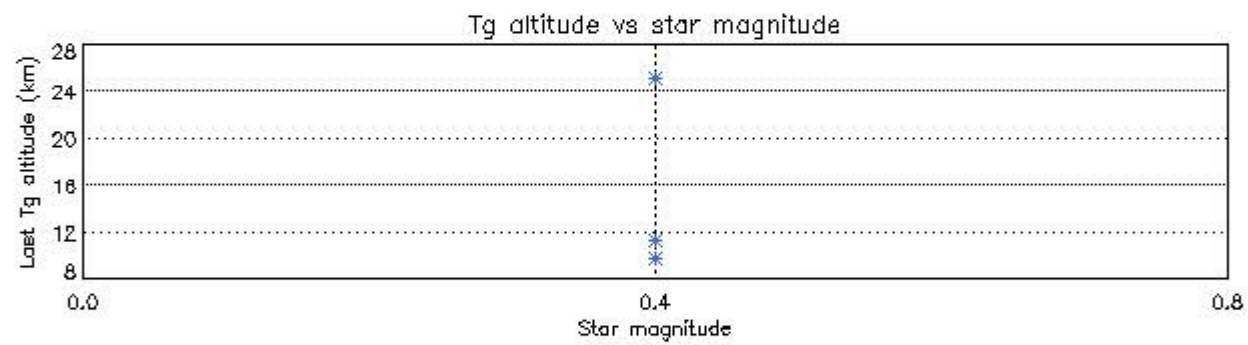
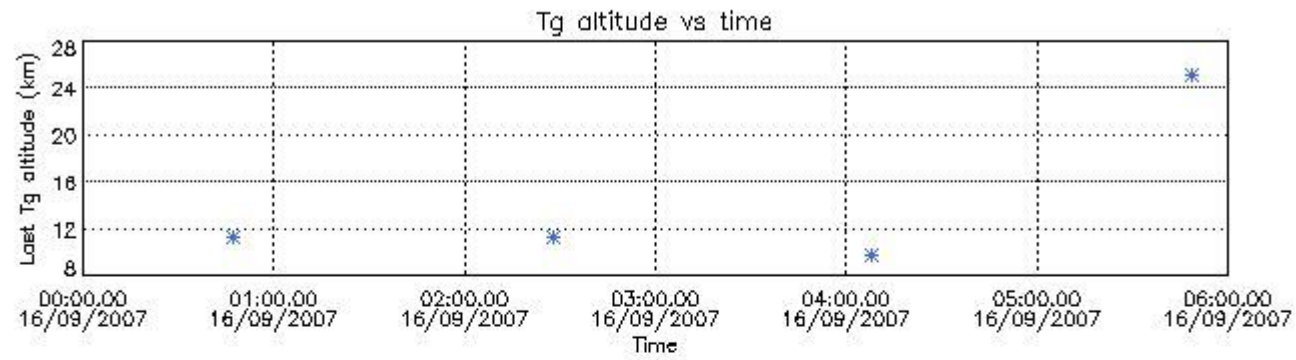
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

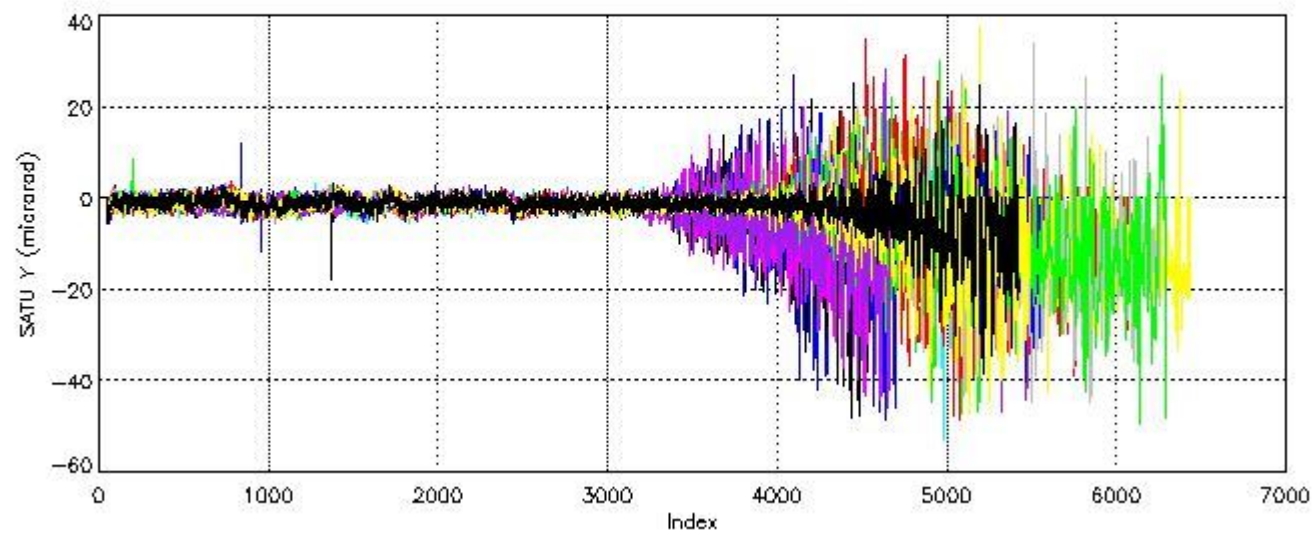
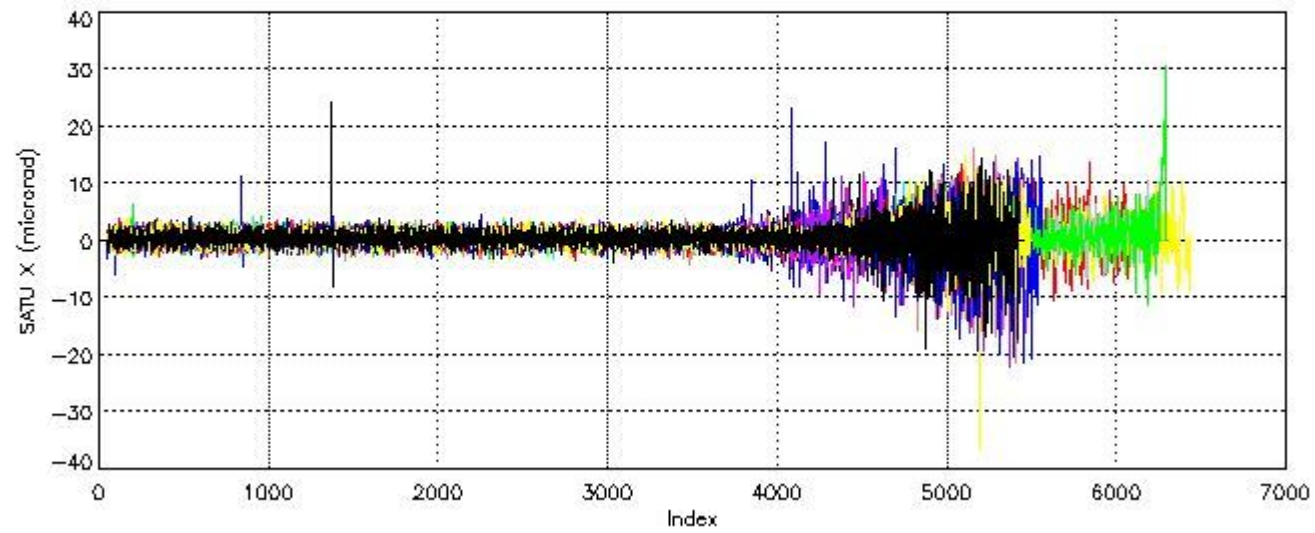


7. Star Acquisition and Tracking Unit (SATU)

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:	0.33139	-1.1247	0.25104	-1.2205
St. deviation:	0.67784	1.0198	0.66006	1.1194
Maximum:	11.400	11.800	4.1000	3.9000
Minimum:	-5.8000	-11.800	-4.6000	-6.5000

Number of data:	19450.	19450.	22600.	22600.
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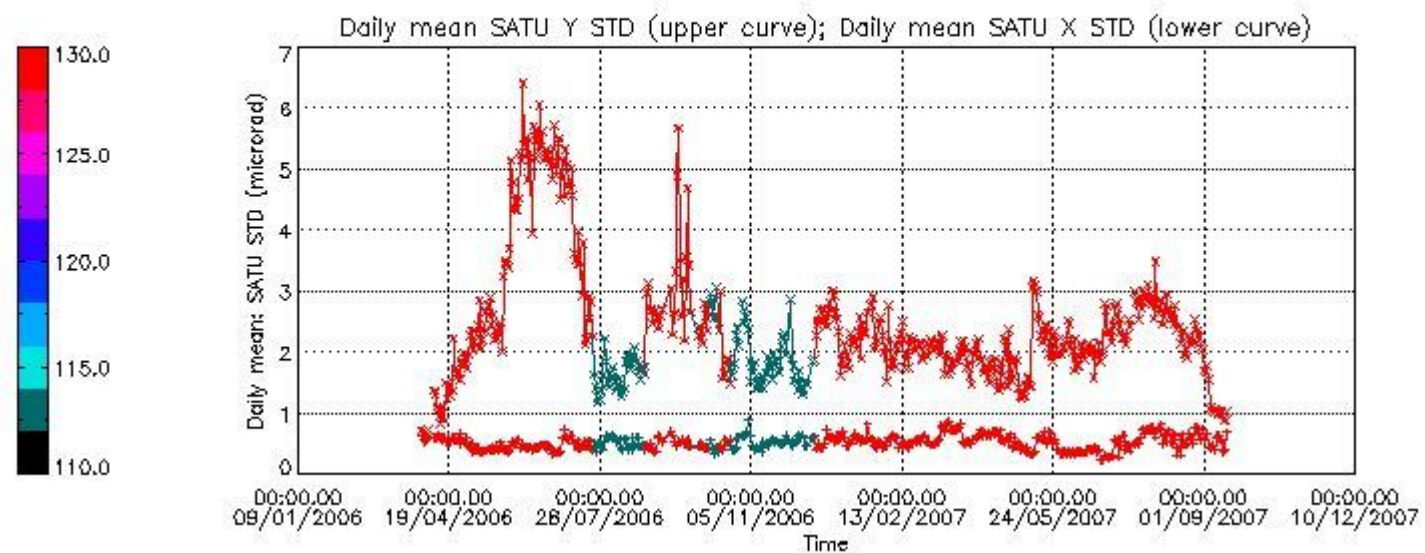
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

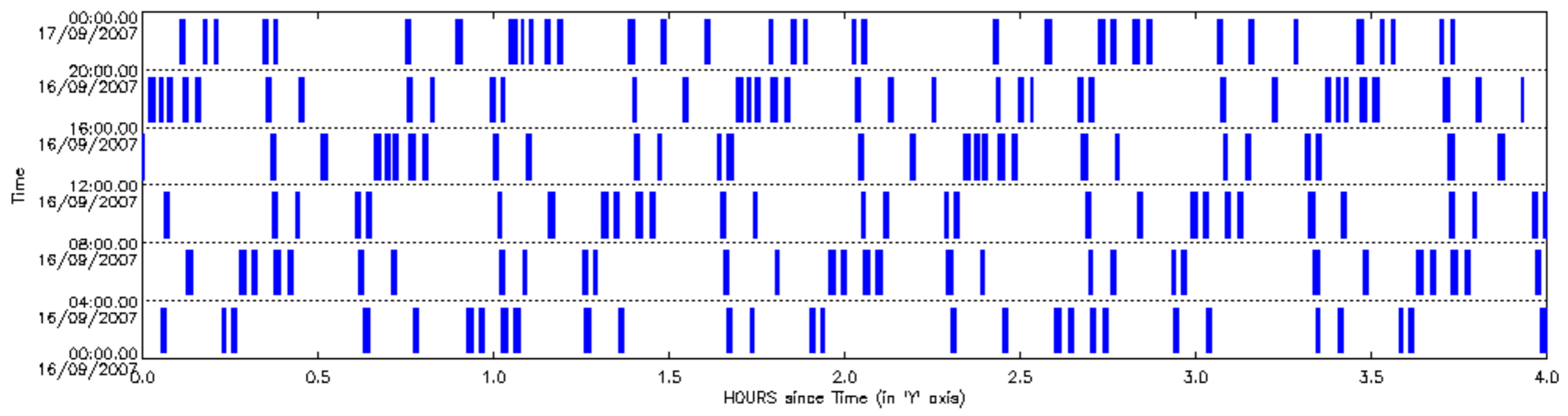
Lower curve: STD of SATU X axis

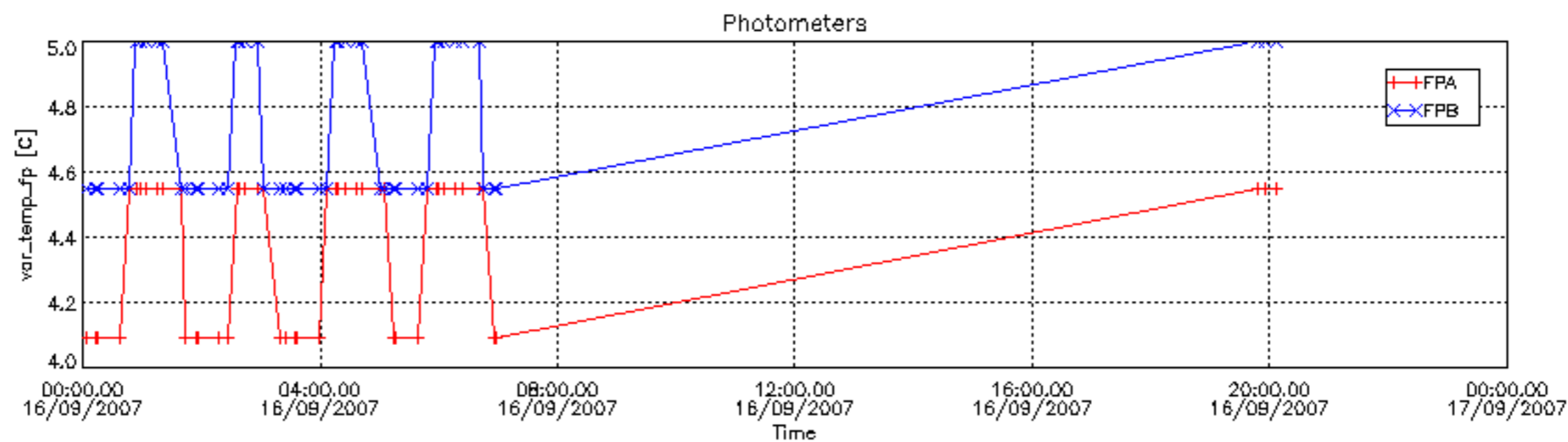
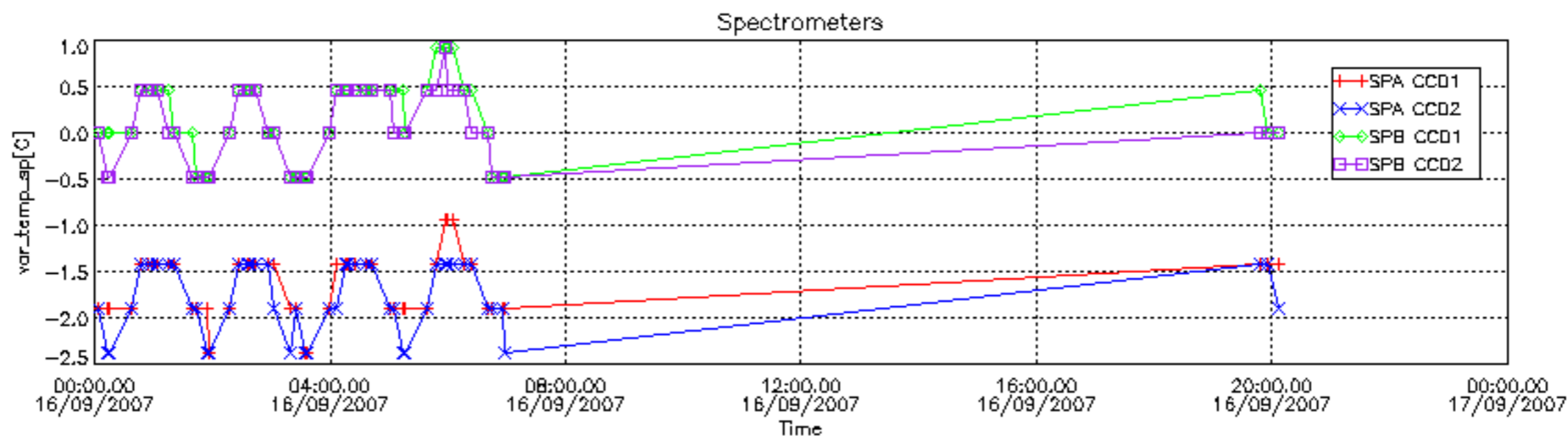


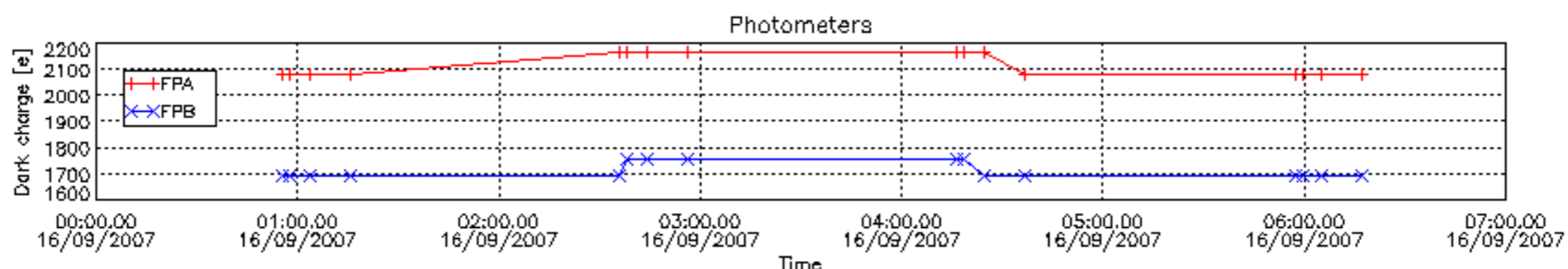
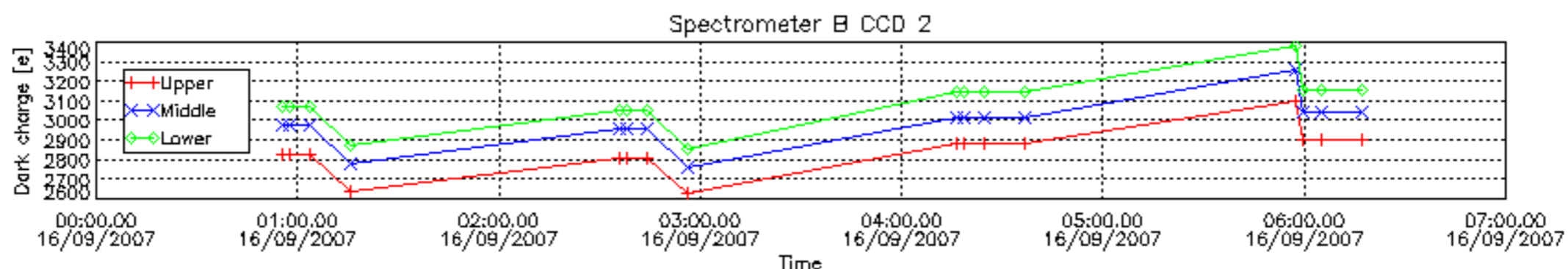
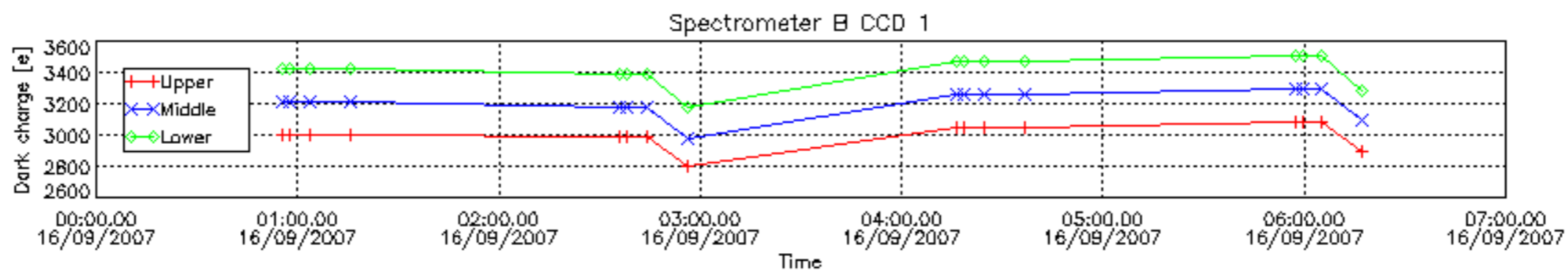
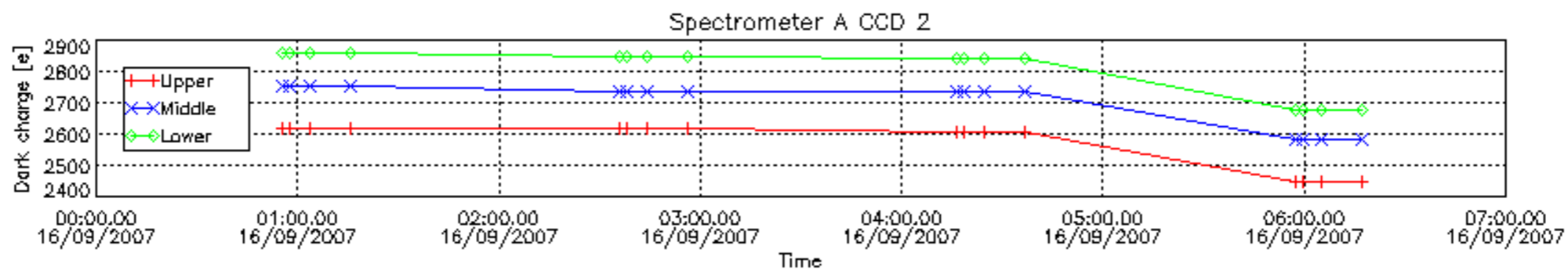
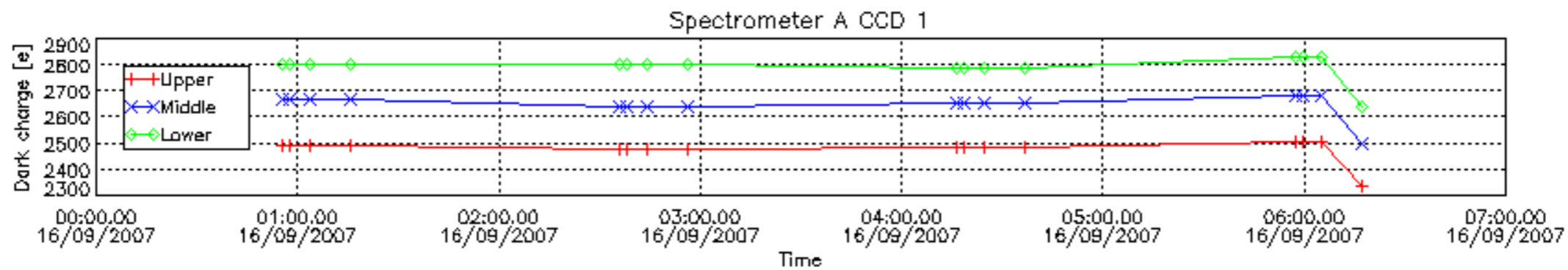
8. Auxiliary Data Files used for the production reported in section 2.4

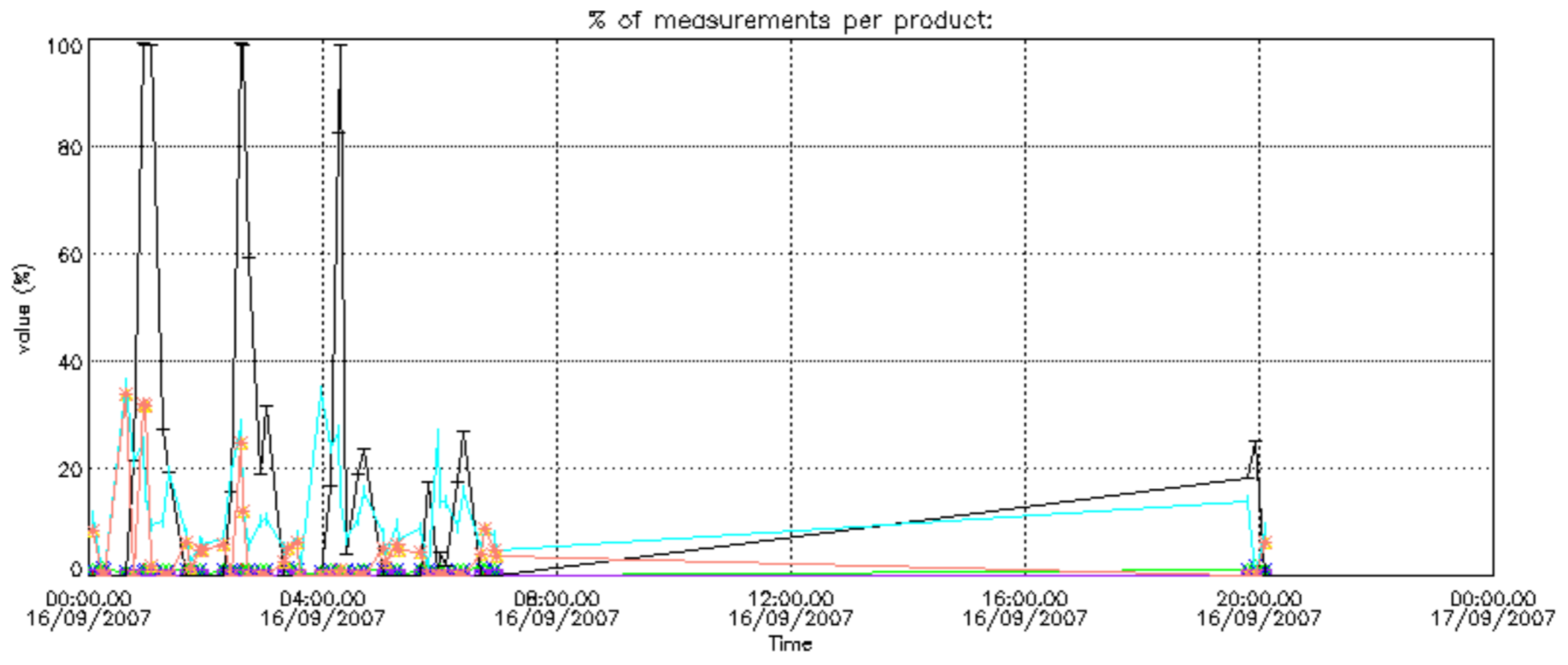
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-SEP-2007 00:03:08
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	16-SEP-2007 00:03:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-SEP-2007 00:03:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-SEP-2007 00:03:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-SEP-2007 00:03:08
ECMWF_FILE	AUX_ECF_AXNECM20070915_071114_20070915_210000_20070916_090000	1	16-SEP-2007 00:03:08
ECMWF_FILE	AUX_ECF_AXNECM20070915_190116_20070916_030000_20070916_150000	26	16-SEP-2007 03:58:48
ECMWF_FILE	AUX_ECF_AXNECM20070916_070116_20070916_150000_20070917_030000	48	16-SEP-2007 19:47:56
OPTIONAL_ECMWF_FILE	MISSING	1	16-SEP-2007 00:03:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070915_212442_000057382061_00372_28983_4183.N1	1	16-SEP-2007 00:03:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070915_230539_000060572061_00373_28984_4184.N1	6	16-SEP-2007 00:55:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070916_004636_000041442061_00374_28985_4185.N1	15	16-SEP-2007 02:18:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070916_020059_000057382061_00375_28986_4186.N1	26	16-SEP-2007 03:58:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070916_034156_000057382061_00376_28987_4187.N1	37	16-SEP-2007 05:39:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070916_194337_000035072061_00386_28997_4189.N1	48	16-SEP-2007 19:47:56

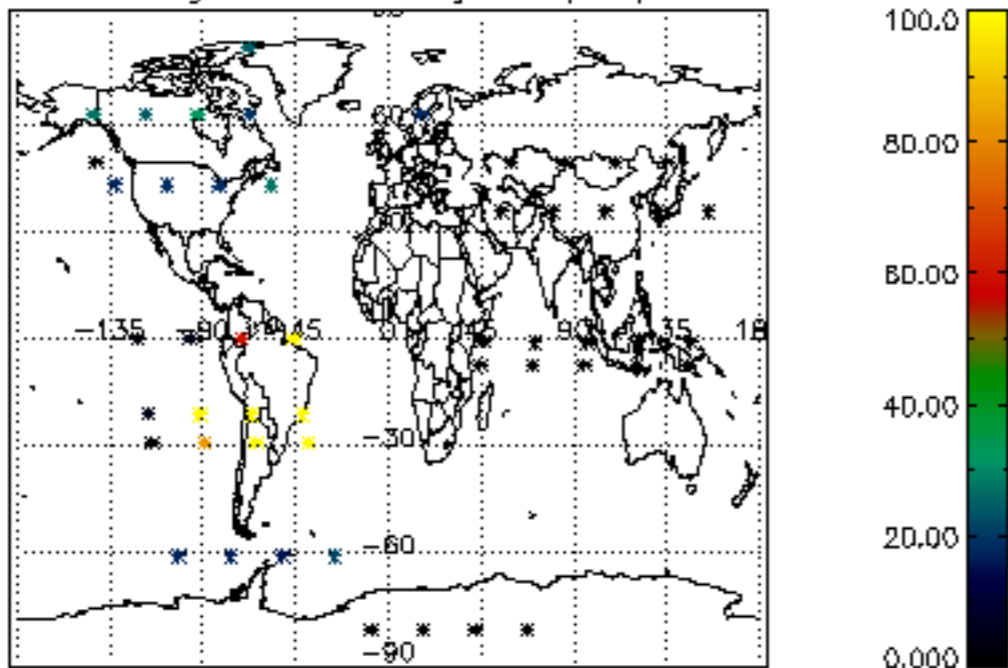




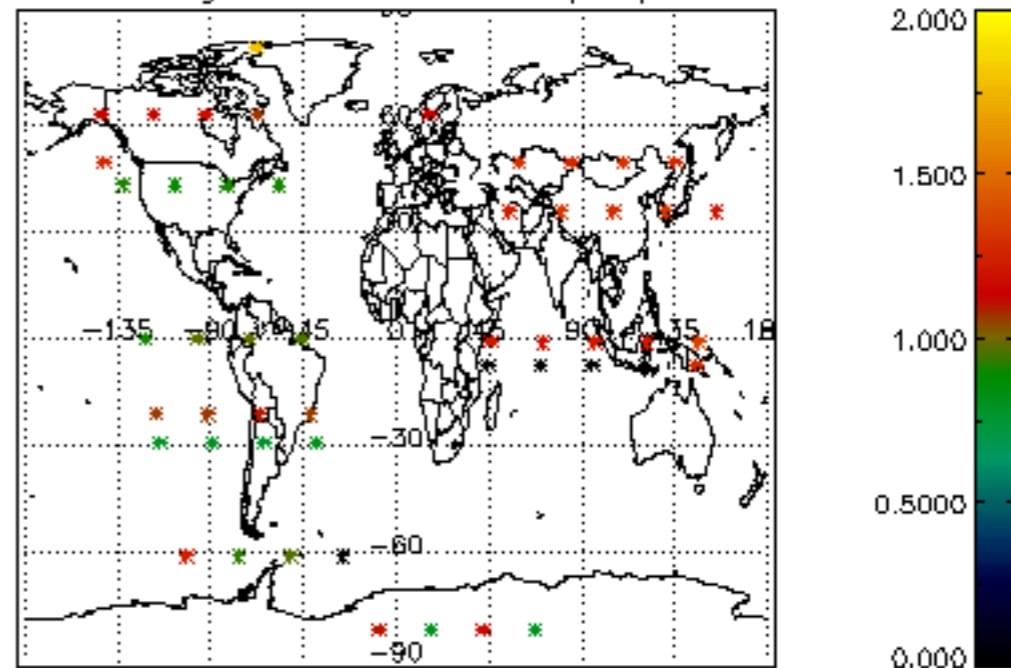




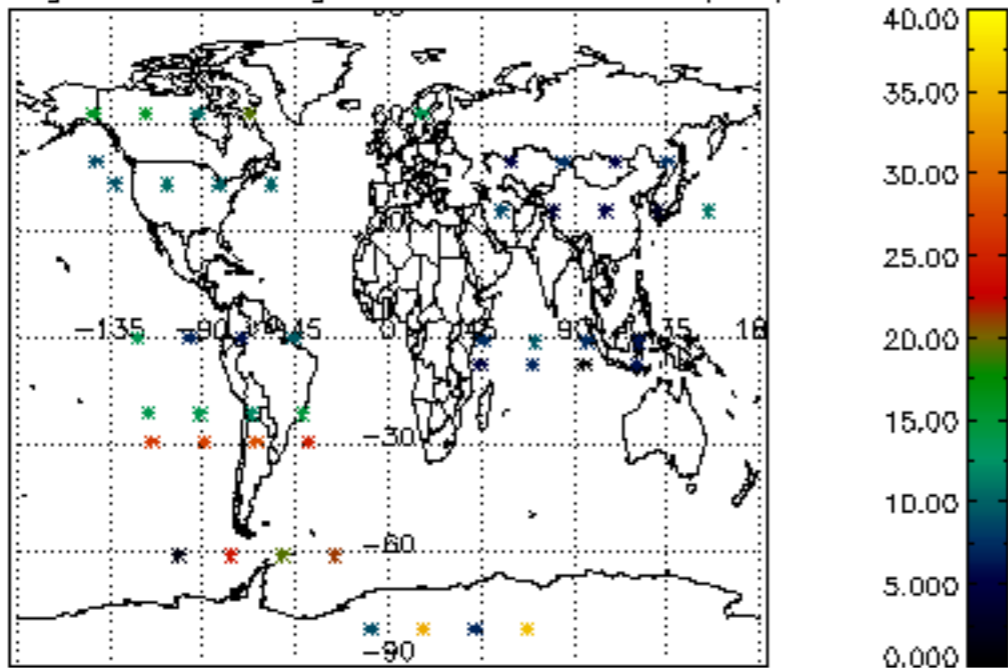
Percentage of cosmic ray hits per profile



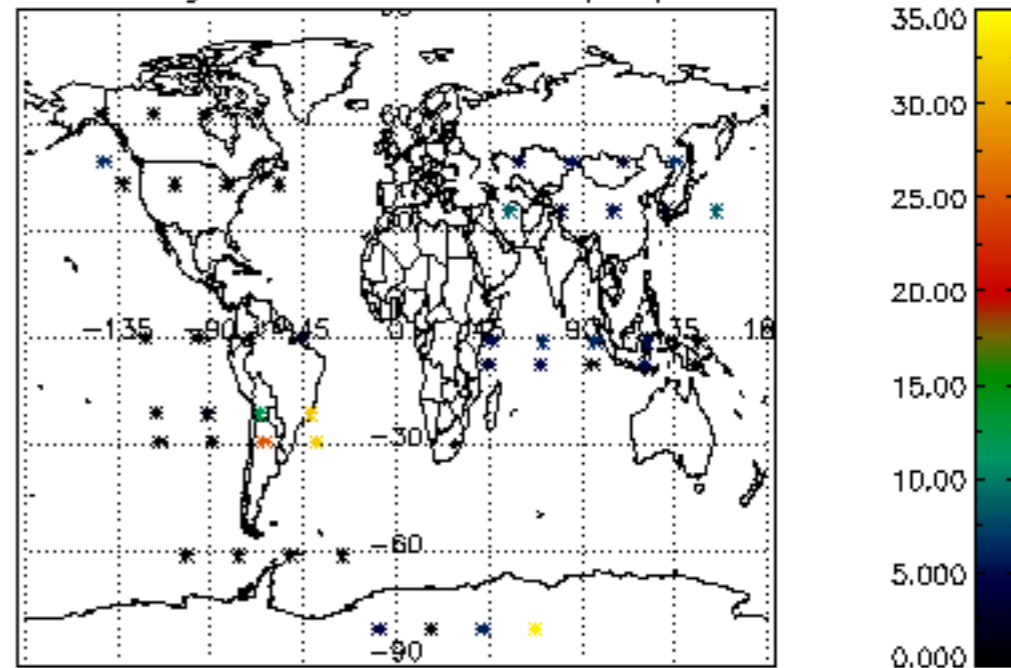
Percentage of datation errors per profile



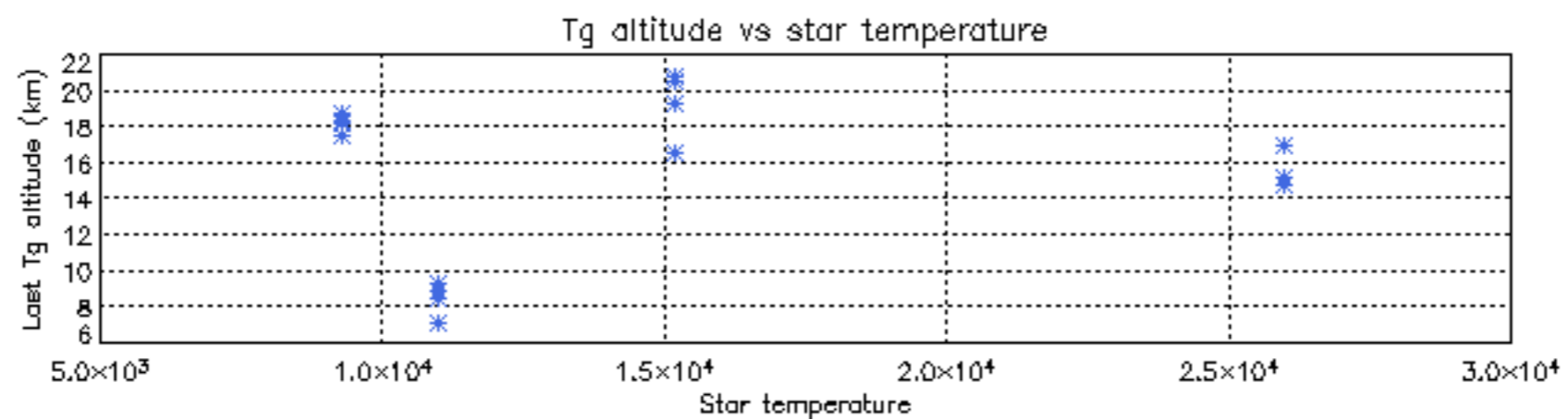
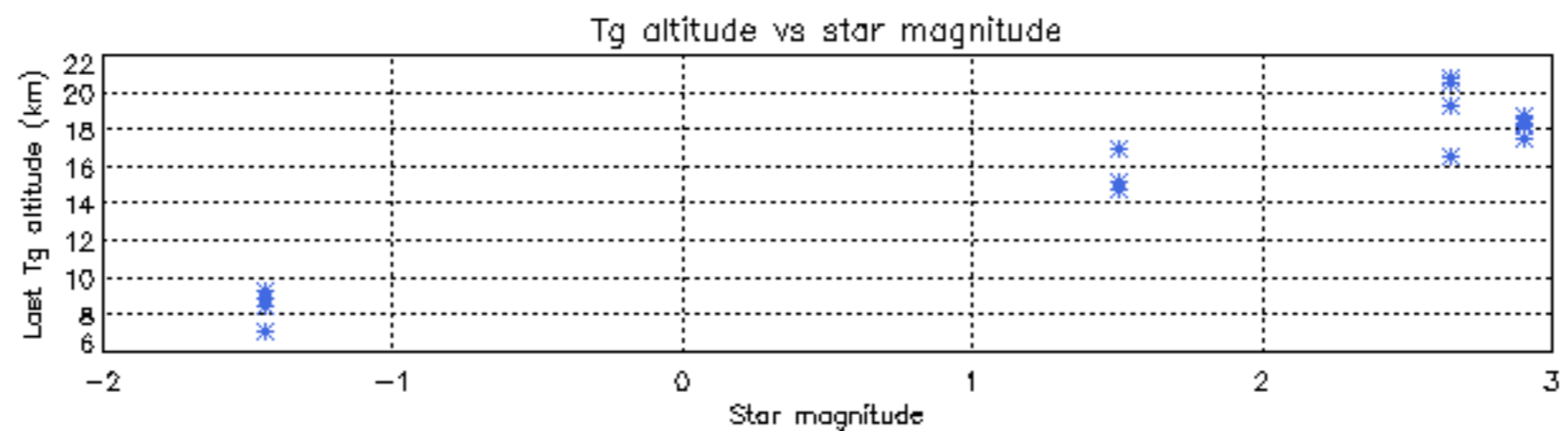
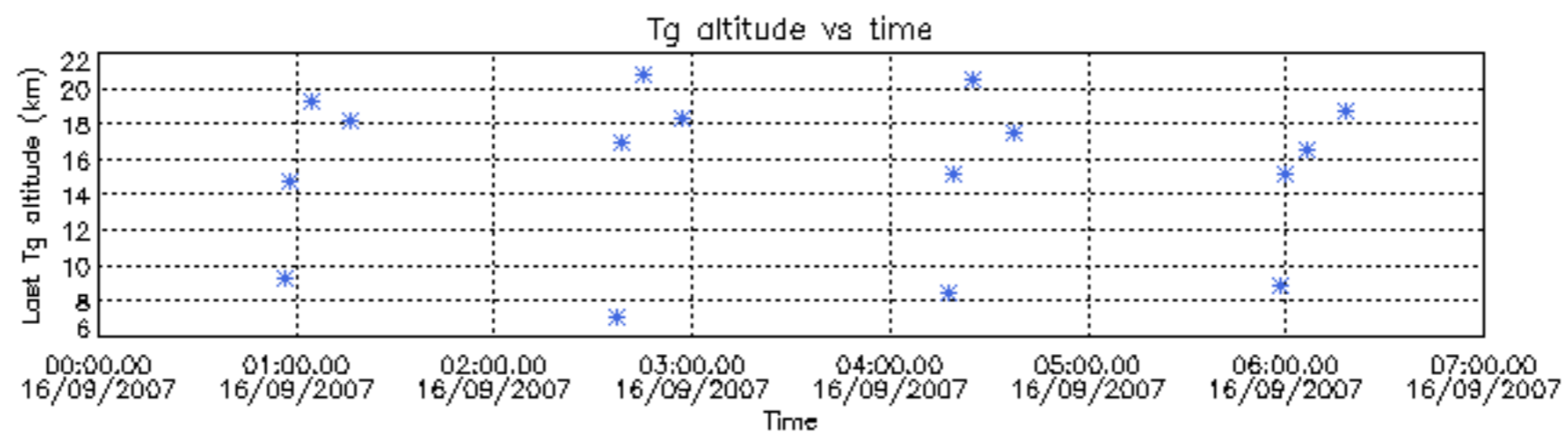
Percentage of star falling outside central band per profile



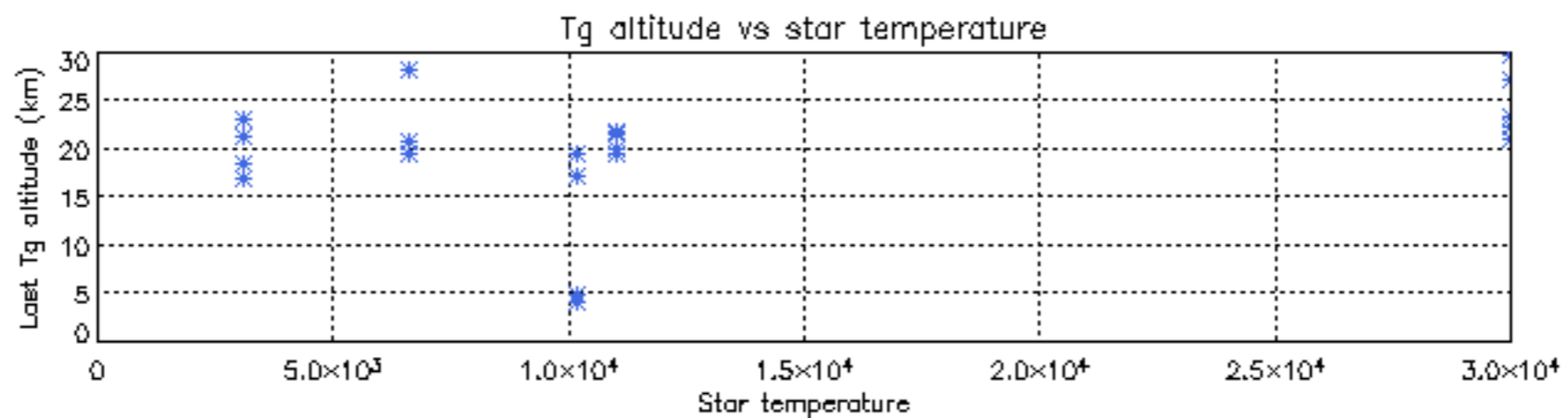
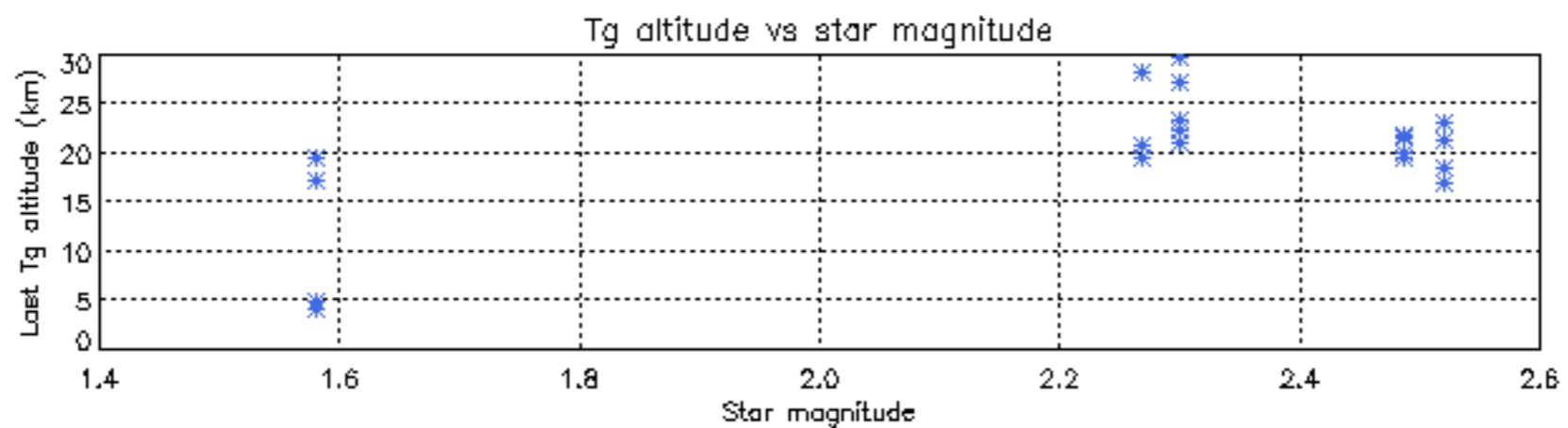
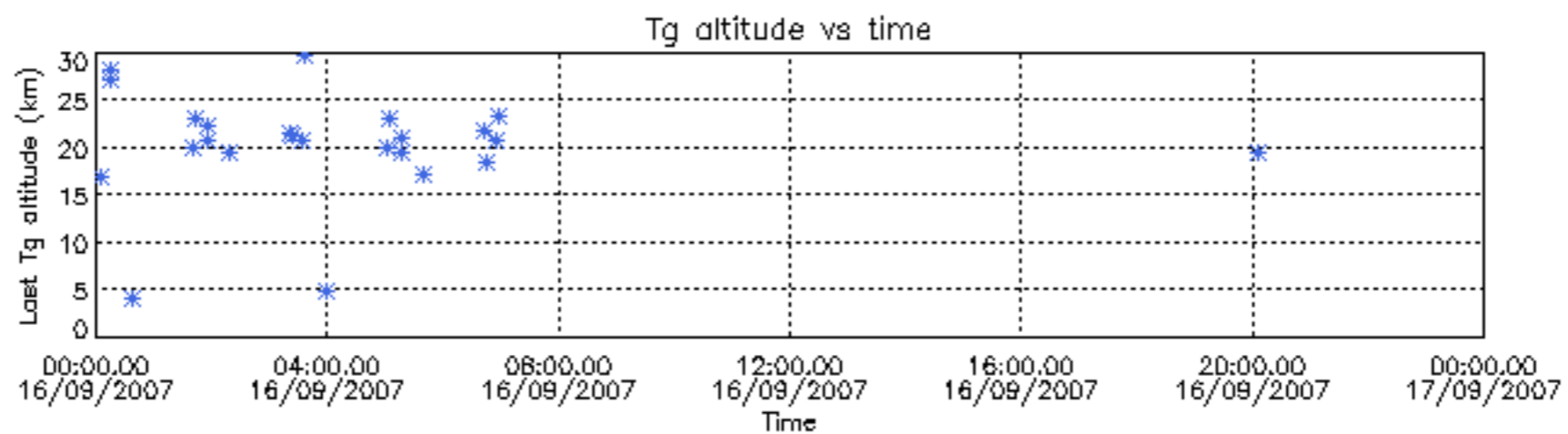
Percentage of saturation errors per profile



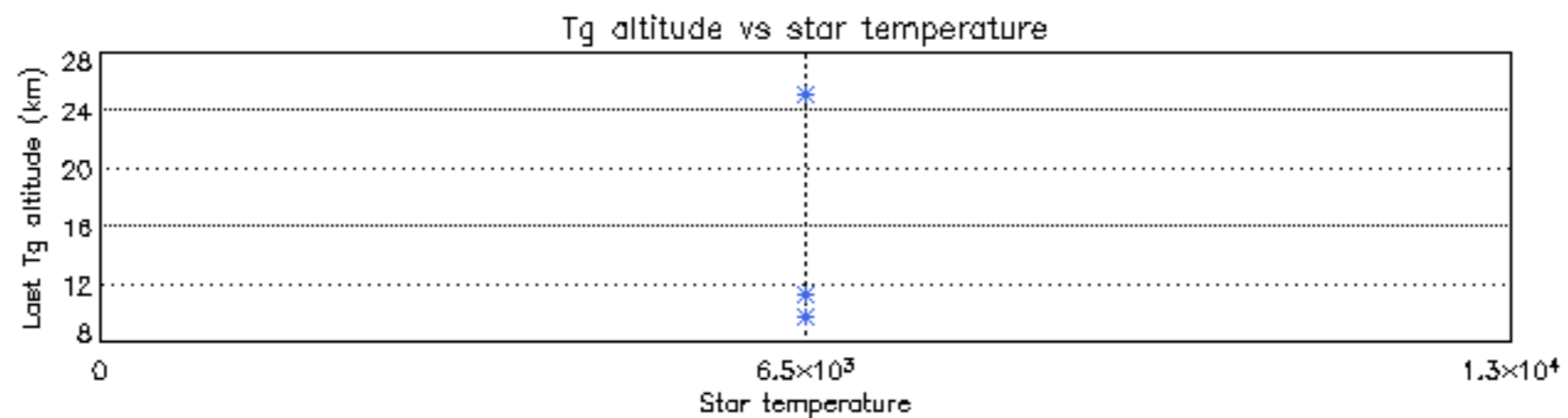
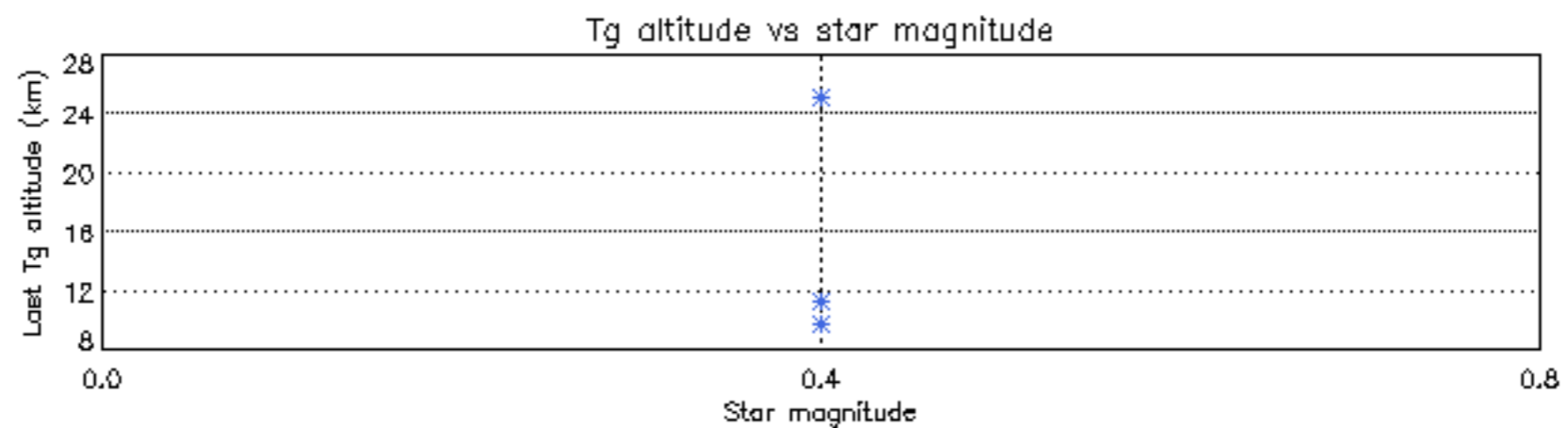
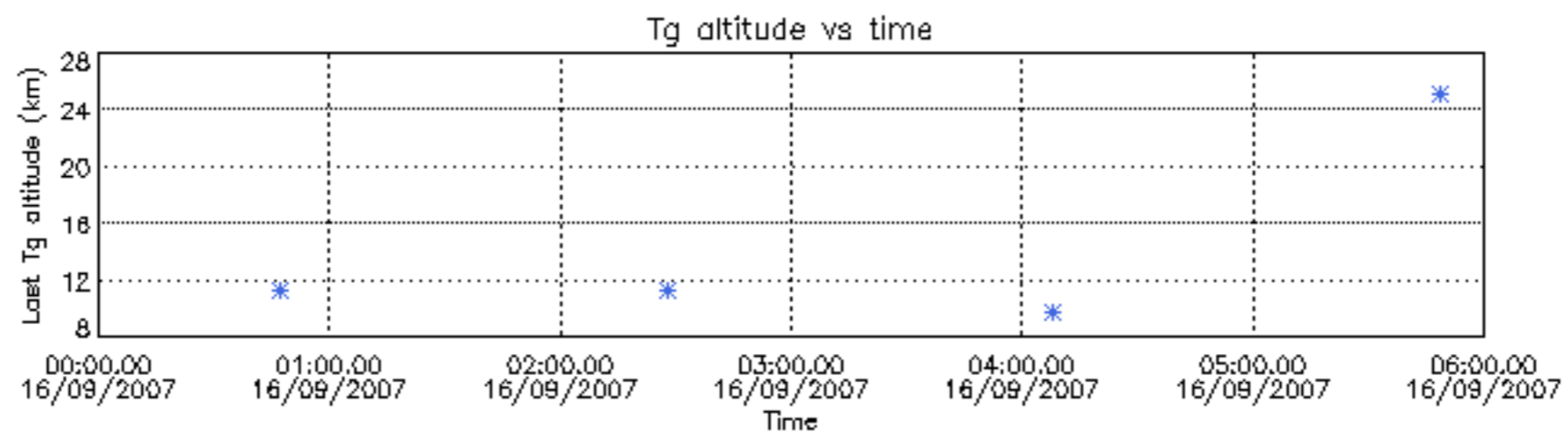
Tangent altitude at which the star is lost

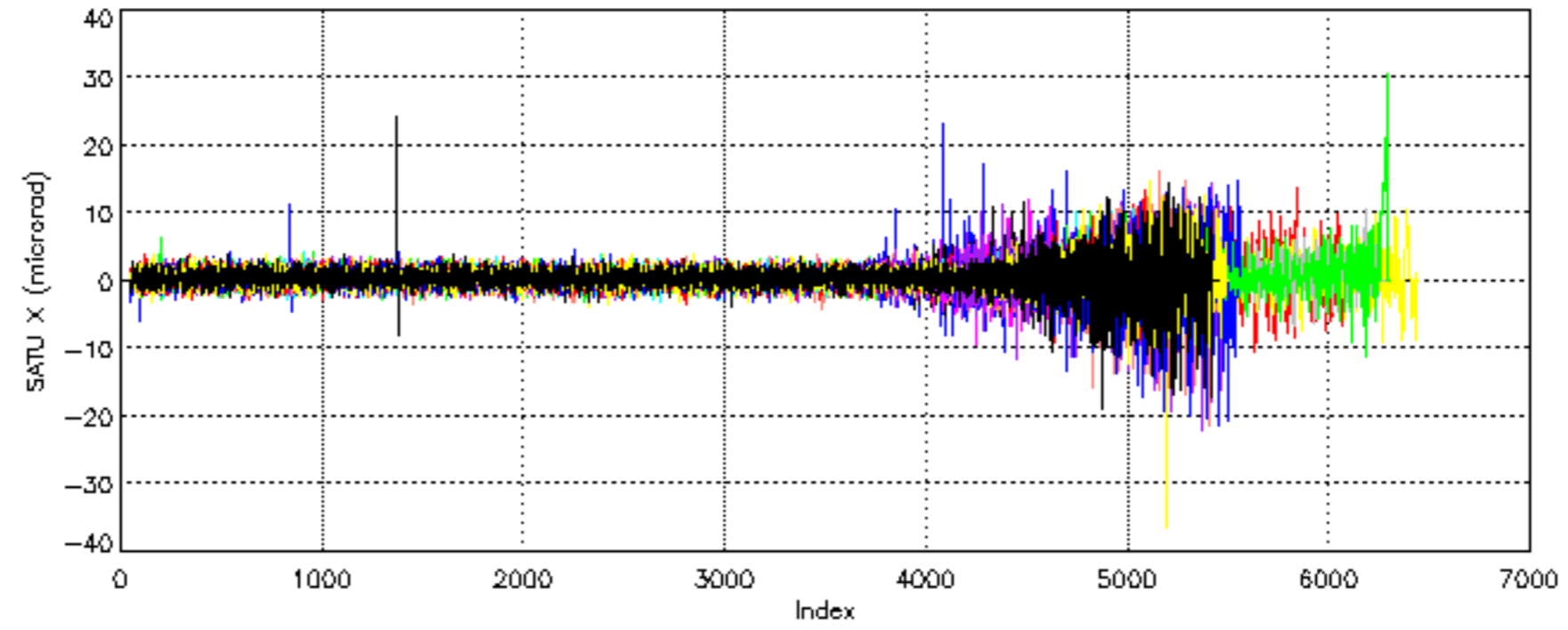


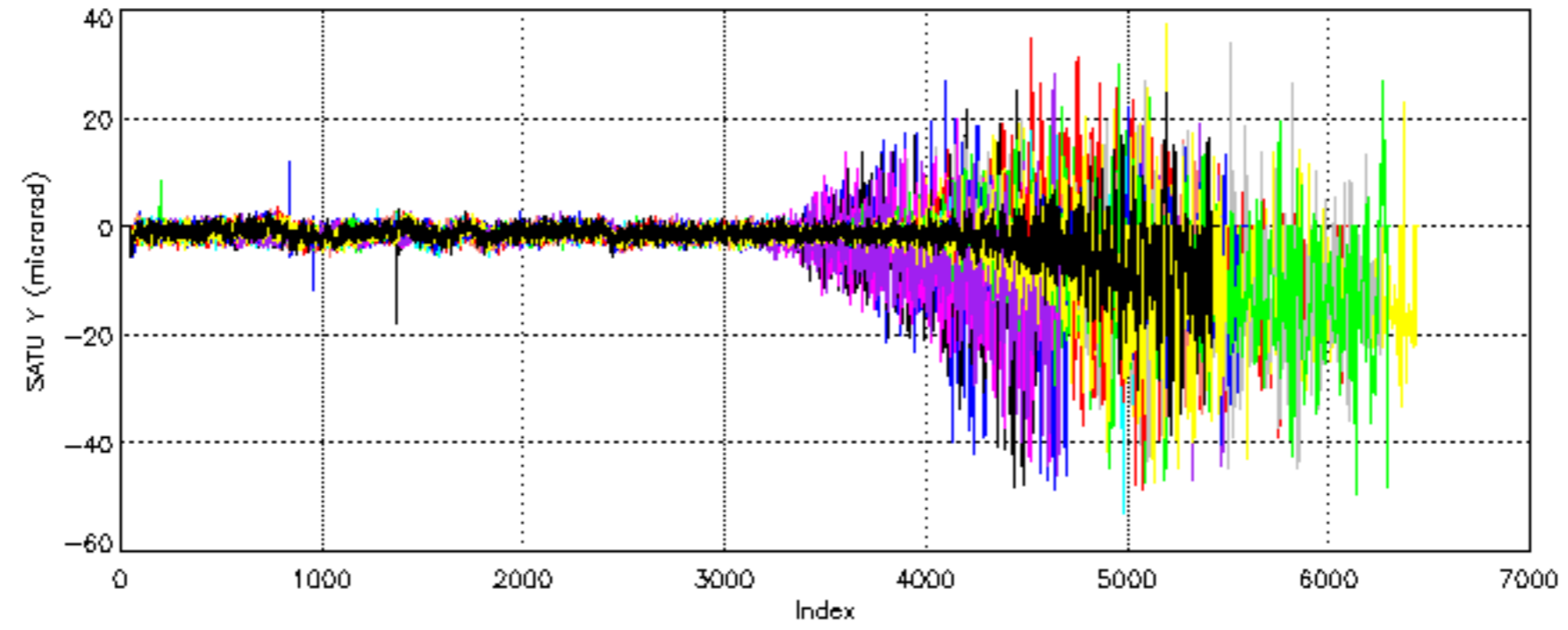
Tangent altitude at which the star is lost

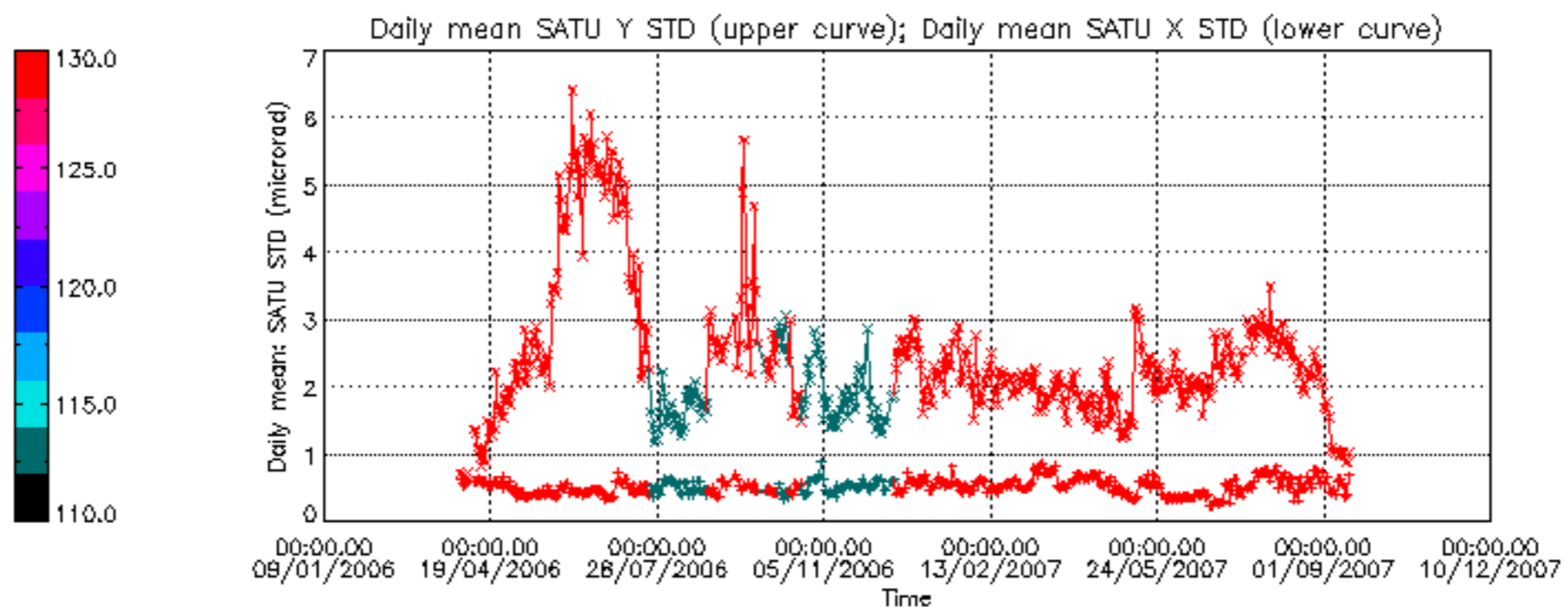


Tangent altitude at which the star is lost









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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
 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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1; -665.2; 01-SEP-2007 02:04:19; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;28771
 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
19; 3434.8; 01-SEP-2007 06:33:51; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 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
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13; 3434.5; 01-SEP-2007 23:19:50; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28784
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17; 6643.8; 01-SEP-2007 20:52:07; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28782
18; 7088.6; 01-SEP-2007 20:59:32; Dark ; 1.0; 63; Bet Gru ; 2.15; 2800;occ; 2; 0;28782
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 2; -491.9; 02-SEP-2007 01:35:35; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28785
 3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
 4; -87.7; 02-SEP-2007 01:42:19; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;28785

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5; 532.1; 02-SEP-2007 01:52:39; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28786
6; 609.6; 02-SEP-2007 01:53:57; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28786
7; 1053.6; 02-SEP-2007 02:01:21; Dark ; 43.0; 63; Bet Gru ; 2.15; 2800;occ; 86; 0;28786
8; 1332.0; 02-SEP-2007 02:05:59; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;28786
9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786
10; 1808.4; 02-SEP-2007 02:13:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28786
11; 1895.4; 02-SEP-2007 02:15:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28786
12; 2075.2; 02-SEP-2007 02:18:22; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28786
13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786
14; 3434.5; 02-SEP-2007 02:41:02; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28786

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3; -1118.2; 02-SEP-2007 03:05:45; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28786
4; -656.0; 02-SEP-2007 03:13:27; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;28786
5; -491.3; 02-SEP-2007 03:16:12; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;28786
6; -388.7; 02-SEP-2007 03:17:54; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28786
7; -294.2; 02-SEP-2007 03:19:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28786
8; -87.1; 02-SEP-2007 03:22:56; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;28786
9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787
10; 610.4; 02-SEP-2007 03:34:33; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;28787
11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787
12; 1332.4; 02-SEP-2007 03:46:35; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28787
13; 1620.8; 02-SEP-2007 03:51:24; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28787
14; 1808.6; 02-SEP-2007 03:54:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28787
15; 1895.7; 02-SEP-2007 03:55:59; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28787
16; 2075.4; 02-SEP-2007 03:58:58; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28787
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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7; -293.5; 02-SEP-2007 05:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28787
8; -86.7; 02-SEP-2007 05:03:32; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;28787
9; 533.3; 02-SEP-2007 05:13:52; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28788
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11; 1054.4; 02-SEP-2007 05:22:33; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28788
12; 1332.6; 02-SEP-2007 05:27:11; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28788
13; 1621.1; 02-SEP-2007 05:32:00; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;28788
14; 1808.7; 02-SEP-2007 05:35:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28788
15; 1895.6; 02-SEP-2007 05:36:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28788
16; 2075.2; 02-SEP-2007 05:39:34; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28788
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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2; 1335.0; 02-SEP-2007 20:32:37; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28797
3; 1622.3; 02-SEP-2007 20:37:25; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28797
4; 1809.5; 02-SEP-2007 20:40:32; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28797
5; 1895.5; 02-SEP-2007 20:41:58; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28797
6; 2074.9; 02-SEP-2007 20:44:57; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28797
7; 2974.1; 02-SEP-2007 20:59:56; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28797
8; 3434.4; 02-SEP-2007 21:07:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28797
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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3; -380.8; 02-SEP-2007 21:44:37; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28797
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5; -204.7; 02-SEP-2007 21:47:33; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28797
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
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
 10; 1335.3; 02-SEP-2007 22:13:13; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28798
 11; 1622.4; 02-SEP-2007 22:18:01; Dark ; 39.0; 142; 49Del Cap ; 2.85; 8900;occ; 78; 0;28798
 12; 1809.6; 02-SEP-2007 22:21:08; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28798
 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
 15; 2974.0; 02-SEP-2007 22:40:32; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28798
 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
 19; 5387.6; 02-SEP-2007 23:20:46; Dark ; 12.0; 1; 9Alp CMA ; -1.44; 11000;occ; 24; 0;28798

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 2; -484.9; 02-SEP-2007 23:23:29; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;28798
 3; -286.1; 02-SEP-2007 23:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28798
 4; -81.6; 02-SEP-2007 23:30:12; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28798
 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
 10; 1809.6; 03-SEP-2007 00:01:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28799
 11; 1895.5; 03-SEP-2007 00:03:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28799
 12; 2074.8; 03-SEP-2007 00:06:09; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28799
 13; 2973.9; 03-SEP-2007 00:21:08; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28799
 14; 3434.5; 03-SEP-2007 00:28:48; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28799
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 5; -490.2; 02-SEP-2007 06:37:25; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;28788
 6; -387.2; 02-SEP-2007 06:39:08; Dark ; 43.5; 177; 1Zet CMA ; 3.02; 26000;occ; 87; 0;28788
 7; -292.8; 02-SEP-2007 06:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28788
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 9; 533.9; 02-SEP-2007 06:54:29; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28789
 10; 611.4; 02-SEP-2007 06:55:46; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28789
 11; 1054.6; 02-SEP-2007 07:03:09; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28789
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 11; 5743.7; 02-SEP-2007 08:21:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28789
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 15; 7090.9; 02-SEP-2007 08:43:46; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;28789
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 17; 7657.2; 02-SEP-2007 08:53:12; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28789
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 3; 2075.2; 02-SEP-2007 09:00:46; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28790
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7; 4615.3; 02-SEP-2007 09:43:06; Dark ; 36.0; 170; 27Eps Gem ; 3.00; 9700;occ; 72; 0;28790
8; 4919.0; 02-SEP-2007 09:48:10; Dark ; 45.0; 8; 10Alp CMi ; 0.40; 6500;occ; 90; 0;28790
9; 5382.5; 02-SEP-2007 09:55:53; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;28790
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17; 7369.4; 02-SEP-2007 10:29:00; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;28790
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3; 2075.1; 02-SEP-2007 10:41:22; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28791
4; 2974.6; 02-SEP-2007 10:56:21; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28791
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7; 1058.7; 14-SEP-2007 22:31:35; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;28970
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9; 2417.6; 14-SEP-2007 22:54:14; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;28970
10; 3037.3; 14-SEP-2007 23:04:33; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;28970
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