

GOMOS Daily Report 24-AUG-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	27AUG2007 09:14:38
Data source version	GOMOS/5.00
Start time of products	24-08-2007 (24AUG2007 00:00:00)
Stop time of products	25-08-2007 (25AUG2007 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)

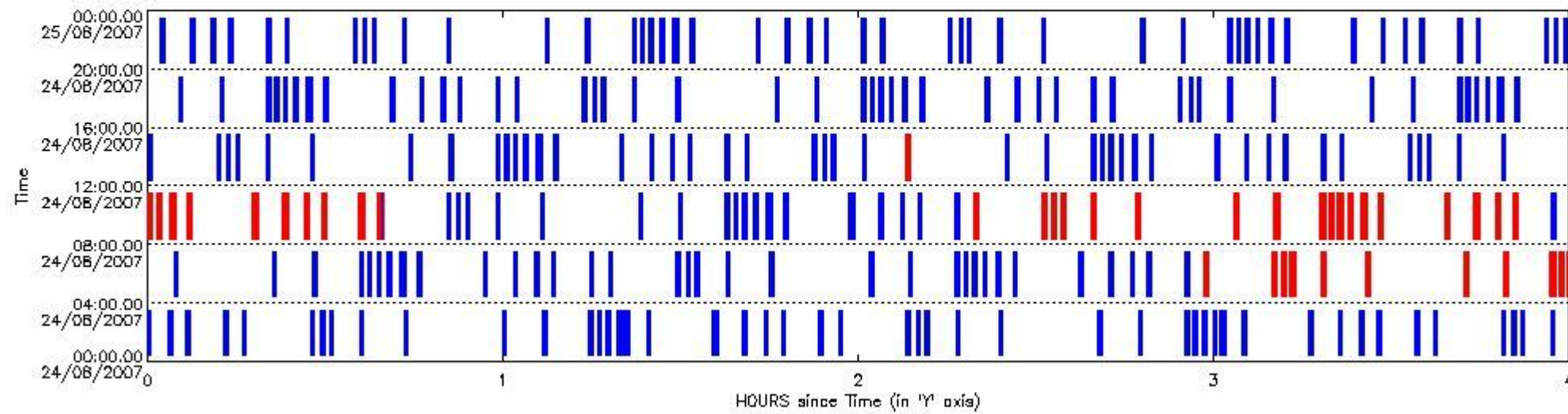
2.1 Level 0 products arrived in PCF (see template [here](#))

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
24-AUG-2007 06:58:14	22BetAqr	154	28660
24-AUG-2007 07:09:42	53EpsCyg	92	28660
24-AUG-2007 07:11:26	37GamCyg	66	28660
24-AUG-2007 07:12:54	50AlpCyg	19	28660
24-AUG-2007 07:18:05	5AlpCep	89	28660
24-AUG-2007 07:25:30	1AlpUMi	49	28660
24-AUG-2007 07:42:09	66AlpGem	24	28660
24-AUG-2007 07:48:56	3BetCMi	153	28660
24-AUG-2007 07:56:46	9AlpCMa	1	28660
24-AUG-2007 07:58:14	24Omi2CMa	179	28660
24-AUG-2007 07:59:42	21EpsCMa	23	28660
24-AUG-2007 08:01:30	PiPup	117	28660
24-AUG-2007 08:03:37	DSA1055	0	28660
24-AUG-2007 08:06:31	AlpCar	2	28660
24-AUG-2007 08:17:40	AlpEri	9	28661

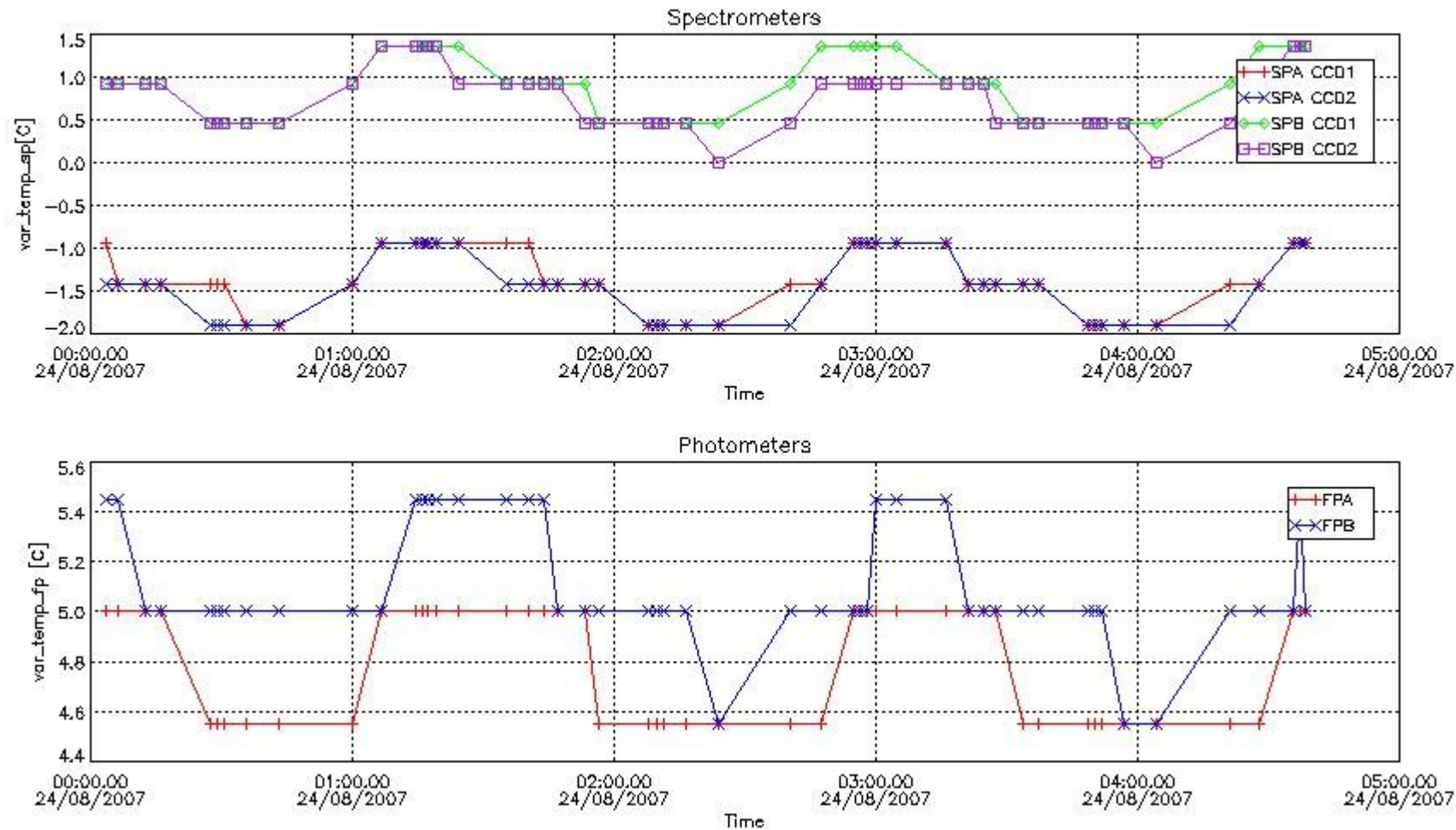
24-AUG-2007 08:22:45	AlpTuc	148	28661
24-AUG-2007 08:26:22	AlpGru	31	28661
24-AUG-2007 08:29:15	GamGru	172	28661
24-AUG-2007 08:35:34	49DelCap	142	28661
24-AUG-2007 08:38:50	22BetAqr	154	28661
24-AUG-2007 10:19:26	22BetAqr	154	28662
24-AUG-2007 10:30:53	53EpsCyg	92	28662
24-AUG-2007 10:32:38	37GamCyg	66	28662
24-AUG-2007 10:34:05	50AlpCyg	19	28662
24-AUG-2007 10:39:17	5AlpCep	89	28662
24-AUG-2007 10:46:42	1AlpUMi	49	28662
24-AUG-2007 11:03:21	66AlpGem	24	28662
24-AUG-2007 11:10:08	3BetCMi	153	28662
24-AUG-2007 11:17:58	9AlpCMa	1	28662
24-AUG-2007 11:19:26	24Omi2CMa	179	28662
24-AUG-2007 11:20:54	21EpsCMa	23	28662
24-AUG-2007 11:22:42	PiPup	117	28662
24-AUG-2007 11:24:49	DSA1055	0	28662
24-AUG-2007 11:27:44	AlpCar	2	28662
24-AUG-2007 11:38:53	AlpEri	9	28663
24-AUG-2007 11:43:57	AlpTuc	148	28663
24-AUG-2007 11:47:34	AlpGru	31	28663
24-AUG-2007 11:50:28	GamGru	172	28663
24-AUG-2007 14:07:54	1AlpUMi	49	28664

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_1PNPDE20070824_000328_000000432061_00045_28656_8936.N1	24-AUG-2007 00:03:28	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	28656	No
2	GOM_TRA_1PNPDE20070824_000622_000000392061_00045_28656_8937.N1	24-AUG-2007 00:06:22	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	28656	No
3	GOM_TRA_1PNPDE20070824_001241_000000452061_00045_28656_8938.N1	24-AUG-2007 00:12:41	Bright	44.500	142	49Del Cap	2.8500	8900.0	89	28656	No
4	GOM_TRA_1PNPDE20070824_001558_000000402061_00045_28656_8939.N1	24-AUG-2007 00:15:58	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	28656	No
5	GOM_TRA_1PNPDE20070824_002726_000000382061_00045_28656_8940.N1	24-AUG-2007 00:27:26	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28656	No
6	GOM_TRA_1PNPDE20070824_002910_000000372061_00045_28656_8941.N1	24-AUG-2007 00:29:10	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	28656	No
7	GOM_TRA_1PNPDE20070824_003038_000000392061_00045_28656_8942.N1	24-AUG-2007 00:30:38	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	28656	No
8	GOM_TRA_1PNPDE20070824_003550_000000362061_00045_28656_8943.N1	24-AUG-2007 00:35:50	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	28656	No
9	GOM_TRA_1PNPDE20070824_004314_000000362061_00045_28656_8944.N1	24-AUG-2007 00:43:14	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28656	No
10	GOM_TRA_1PNPDE20070824_005952_000000352061_00045_28656_8945.N1	24-AUG-2007 00:59:52	Bright	34.500	24	66Alp Gem	1.5800	10200.	69	28656	No
11	GOM_TRA_1PNPDE20070824_010639_000000392061_00045_28656_8946.N1	24-AUG-2007 01:06:39	Twilight	38.500	153	3Bet CMI	2.8940	13100.	77	28656	No
12	GOM_TRA_1PNPDE20070824_011428_000000482061_00045_28656_9063.N1	24-AUG-2007 01:14:28	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	28656	No
13	GOM_TRA_1PNPDE20070824_011556_000000382061_00045_28656_9064.N1	24-AUG-2007 01:15:56	Dark	37.500	179	24Omi2CMa	3.0320	24000.	75	28656	No
14	GOM_TRA_1PNPDE20070824_011724_000000412061_00045_28656_9065.N1	24-AUG-2007 01:17:24	Dark	40.500	23	21Eps CMa	1.5020	26000.	81	28656	No
15	GOM_TRA_1PNPDE20070824_011913_000000422061_00045_28656_9066.N1	24-AUG-2007 01:19:13	Dark	42.000	117	Pi Pup	2.7060	3800.0	84	28656	No
16	GOM_TRA_1PNPDE20070824_012414_000000432061_00045_28656_9067.N1	24-AUG-2007 01:24:14	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	28656	No
17	GOM_TRA_1PNPDE20070824_013521_000000552061_00046_28657_9068.N1	24-AUG-2007 01:35:21	Dark	55.000	9	Alp Eri	0.45300	24000.	110	28657	No
18	GOM_TRA_1PNPDE20070824_014027_000000402061_00046_28657_9069.N1	24-AUG-2007 01:40:27	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	28657	No
19	GOM_TRA_1PNPDE20070824_014404_000000422061_00046_28657_9070.N1	24-AUG-2007 01:44:04	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28657	No
20	GOM_TRA_1PNPDE20070824_014658_000000372061_00046_28657_9071.N1	24-AUG-2007 01:46:58	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	28657	No
21	GOM_TRA_1PNPDE20070824_015317_000000462061_00046_28657_9072.N1	24-AUG-2007 01:53:17	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	28657	No
22	GOM_TRA_1PNPDE20070824_015634_000000402061_00046_28657_9073.N1	24-AUG-2007 01:56:34	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	28657	No
23	GOM_TRA_1PNPDE20070824_020802_000000362061_00046_28657_9074.N1	24-AUG-2007 02:08:02	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28657	No
24	GOM_TRA_1PNPDE20070824_020946_000000352061_00046_28657_9075.N1	24-AUG-2007 02:09:46	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	28657	No
25	GOM_TRA_1PNPDE20070824_021114_000000372061_00046_28657_9076.N1	24-AUG-2007 02:11:14	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	28657	No
26	GOM_TRA_1PNPDE20070824_021626_000000362061_00046_28657_9077.N1	24-AUG-2007 02:16:26	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	28657	No
27	GOM_TRA_1PNPDE20070824_022350_000000332061_00046_28657_9078.N1	24-AUG-2007 02:23:50	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28657	No
28	GOM_TRA_1PNPDE20070824_024028_000000362061_00046_28657_9226.N1	24-AUG-2007 02:40:28	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	28657	No
29	GOM_TRA_1PNPDE20070824_024715_000000372061_00046_28657_9227.N1	24-AUG-2007 02:47:15	Twilight	37.000	153	3Bet CMI	2.8940	13100.	74	28657	No
30	GOM_TRA_1PNPDE20070824_025504_000000472061_00046_28657_9228.N1	24-AUG-2007 02:55:04	Dark	46.500	1	9Alp CMa	-1.4400	11000.	93	28657	No

31	GOM_TRA_1PNPDE20070824_025632_000000392061_00046_28657_9229.N1	24-AUG-2007 02:56:32	Dark	39.000	179	24Omi2CMa	3.0320	24000.	78	28657	No
32	GOM_TRA_1PNPDE20070824_025800_000000432061_00046_28657_9230.N1	24-AUG-2007 02:58:00	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	28657	No
33	GOM_TRA_1PNPDE20070824_025949_000000412061_00046_28657_9231.N1	24-AUG-2007 02:59:49	Dark	40.500	117	Pi Pup	2.7060	3800.0	81	28657	No
34	GOM_TRA_1PNPDE20070824_030450_000000492061_00046_28657_9232.N1	24-AUG-2007 03:04:50	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	28657	No
35	GOM_TRA_1PNPDE20070824_031558_000000462061_00047_28658_9233.N1	24-AUG-2007 03:15:58	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28658	No
36	GOM_TRA_1PNPDE20070824_032104_000000412061_00047_28658_9234.N1	24-AUG-2007 03:21:04	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	28658	No
37	GOM_TRA_1PNPDE20070824_032441_000000402061_00047_28658_9235.N1	24-AUG-2007 03:24:41	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	28658	No
38	GOM_TRA_1PNPDE20070824_032734_000000402061_00047_28658_9236.N1	24-AUG-2007 03:27:34	Straylight	40.000	172	Gam Gru	3.0030	13100.	80	28658	No
39	GOM_TRA_1PNPDE20070824_033353_000000442061_00047_28658_9237.N1	24-AUG-2007 03:33:53	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	28658	No
40	GOM_TRA_1PNPDE20070824_033709_000000392061_00047_28658_9238.N1	24-AUG-2007 03:37:09	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	28658	No
41	GOM_TRA_1PNPDE20070824_034837_000000382061_00047_28658_9239.N1	24-AUG-2007 03:48:37	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28658	No
42	GOM_TRA_1PNPDE20070824_035022_000000372061_00047_28658_9240.N1	24-AUG-2007 03:50:22	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	28658	No
43	GOM_TRA_1PNPDE20070824_035149_000000382061_00047_28658_9241.N1	24-AUG-2007 03:51:49	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	28658	No
44	GOM_TRA_1PNPDE20070824_035701_000000362061_00047_28658_9242.N1	24-AUG-2007 03:57:01	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	28658	No
45	GOM_TRA_1PNPDE20070824_040426_000000362061_00047_28658_9243.N1	24-AUG-2007 04:04:26	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28658	No
46	GOM_TRA_1PNPDE20070824_042105_000000372061_00047_28658_9397.N1	24-AUG-2007 04:21:05	Bright	36.500	24	66Alp Gem	1.5800	10200.	73	28658	No
47	GOM_TRA_1PNPDE20070824_042751_000000382061_00047_28658_9398.N1	24-AUG-2007 04:27:51	Twilight	38.000	153	3Bet CMi	2.8940	13100.	76	28658	No
48	GOM_TRA_1PNPDE20070824_043540_000000442061_00047_28658_9399.N1	24-AUG-2007 04:35:40	Dark	44.000	1	9Alp CMa	-1.4400	11000.	88	28658	No
49	GOM_TRA_1PNPDE20070824_043709_000000372061_00047_28658_9400.N1	24-AUG-2007 04:37:09	Dark	37.000	179	24Omi2CMa	3.0320	24000.	74	28658	No
50	GOM_TRA_1PNPDE20070824_043837_000000422061_00047_28658_9401.N1	24-AUG-2007 04:38:37	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	28658	No

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



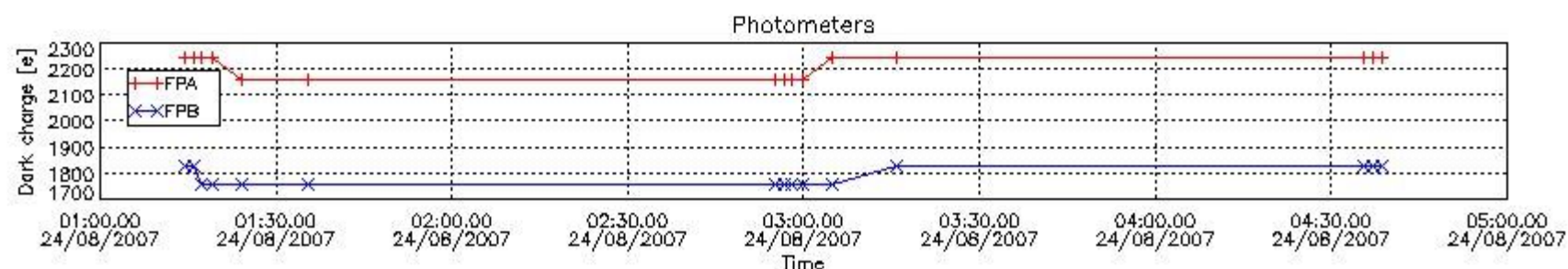
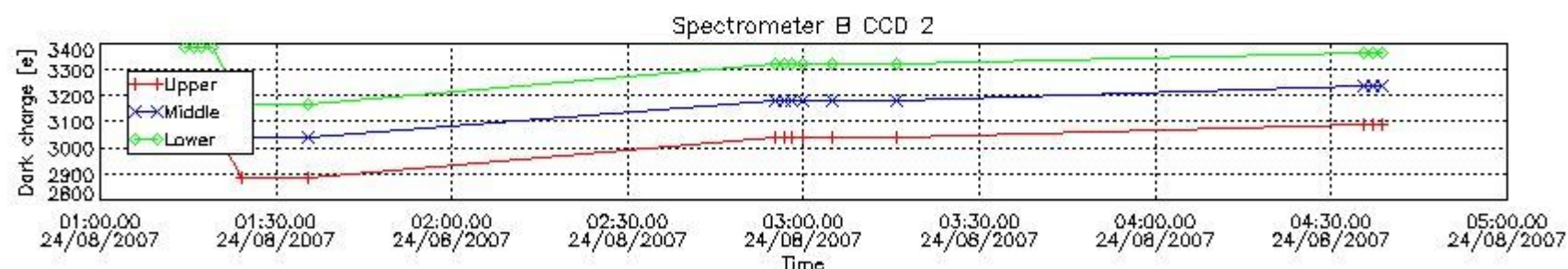
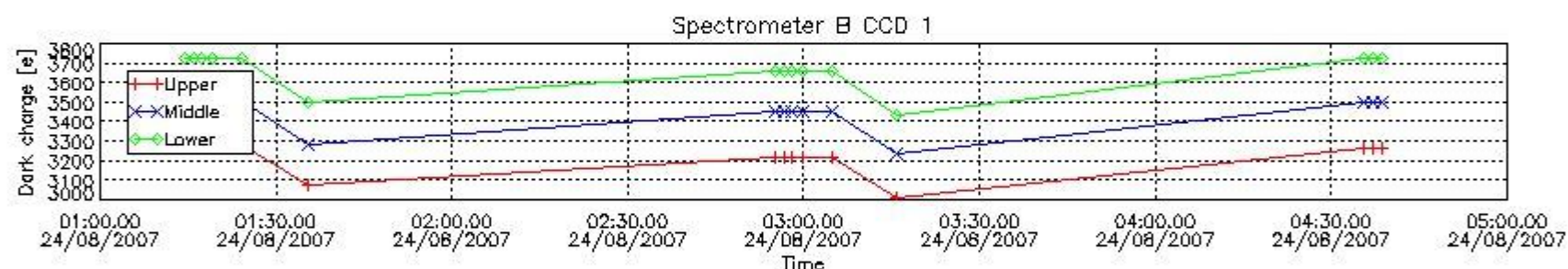
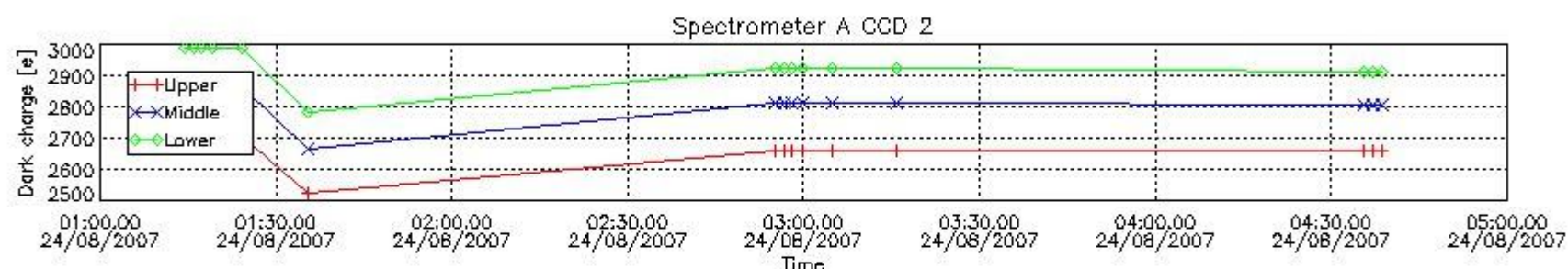
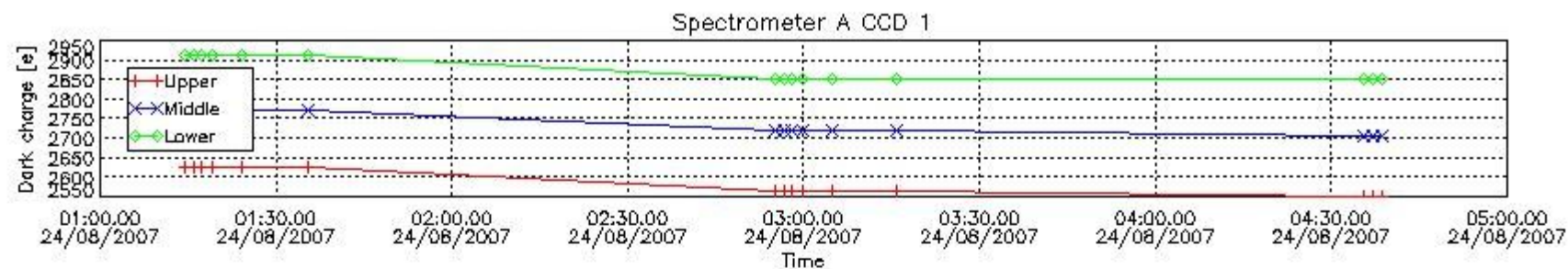
4. Overview of dark signal processing per product

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



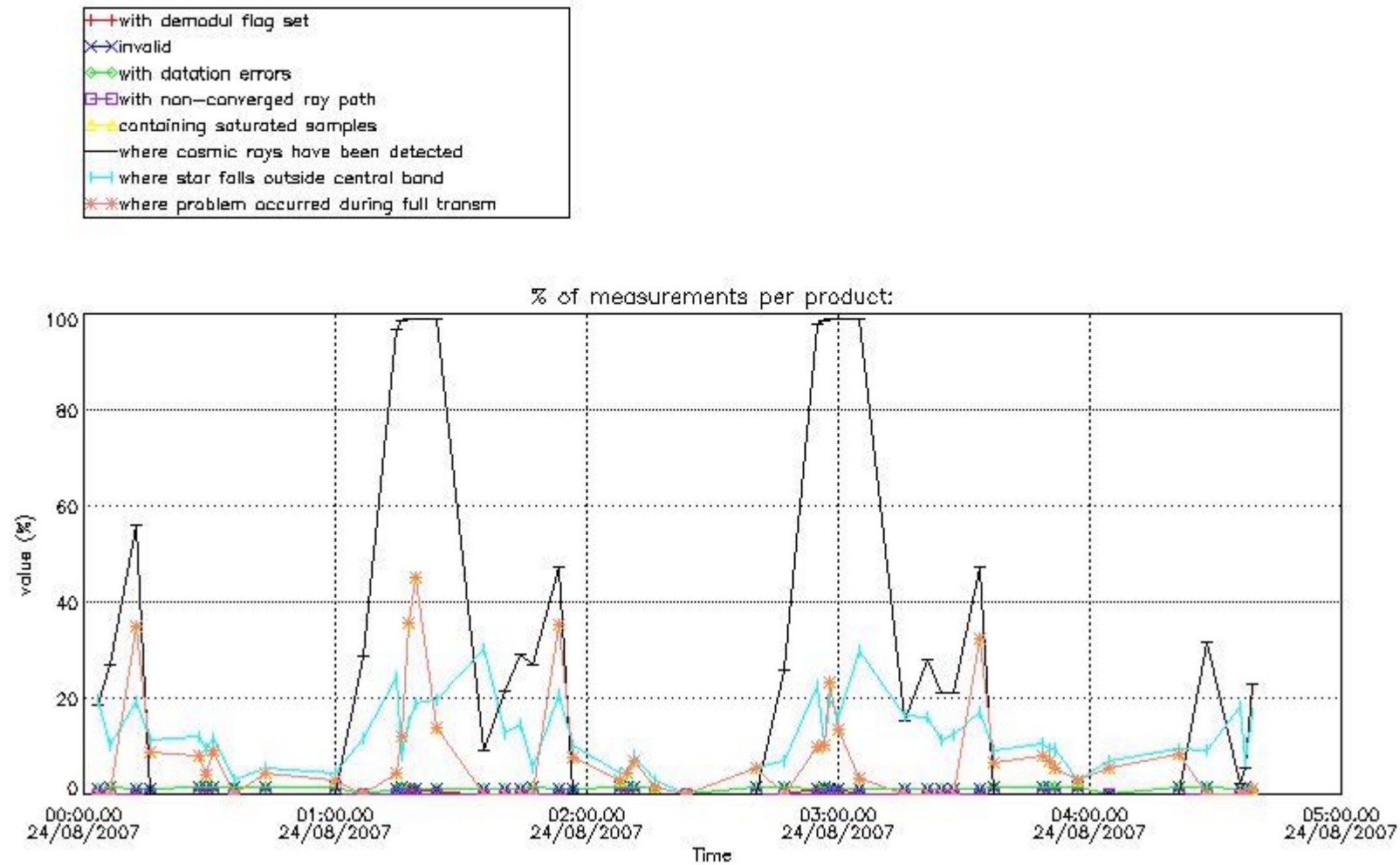
5. Demodulation flag and quality information monitoring

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.

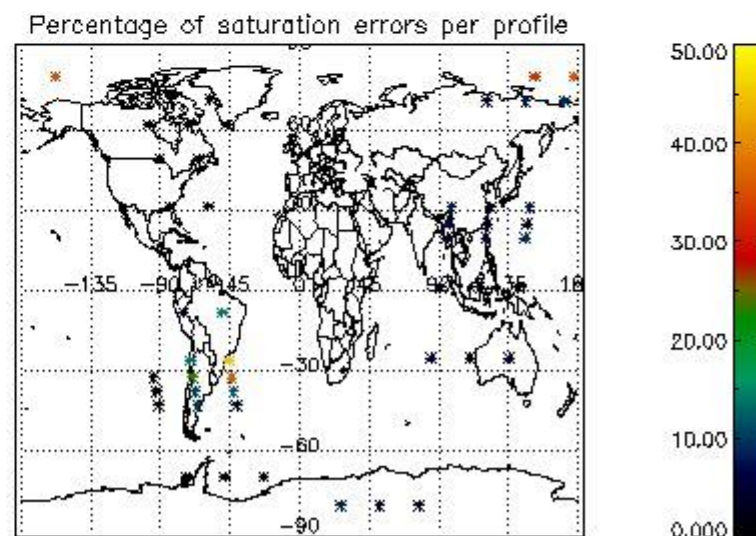
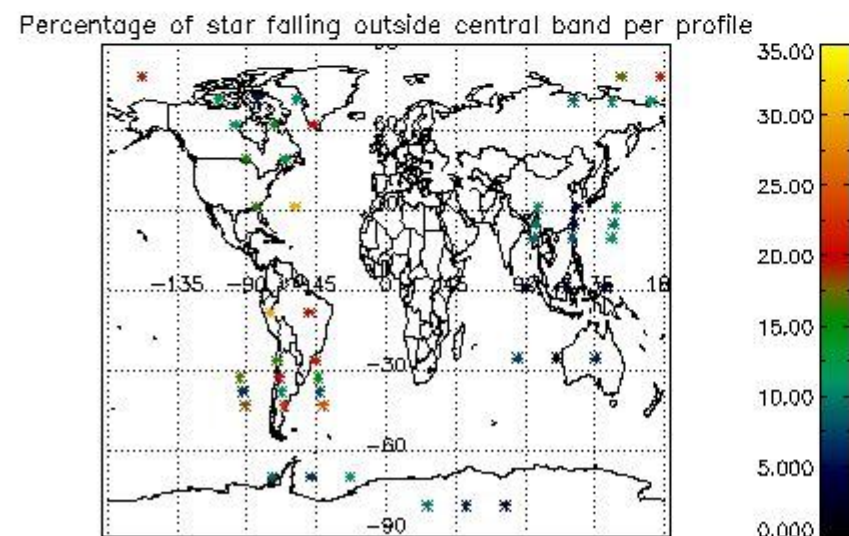
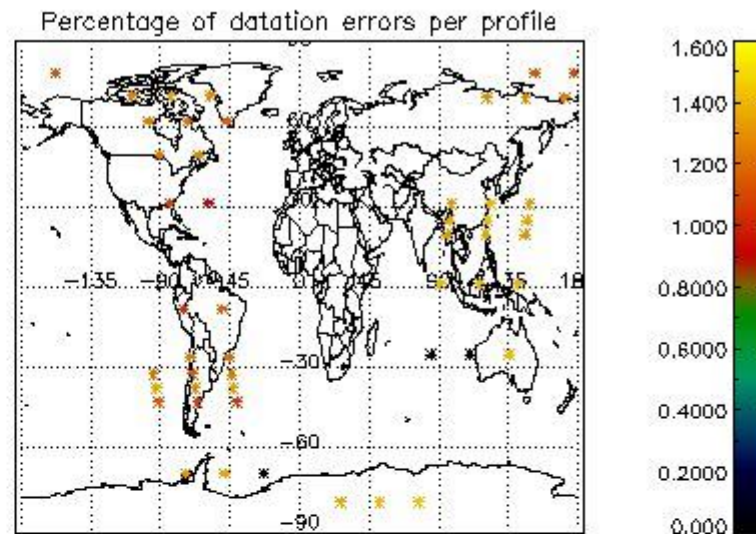
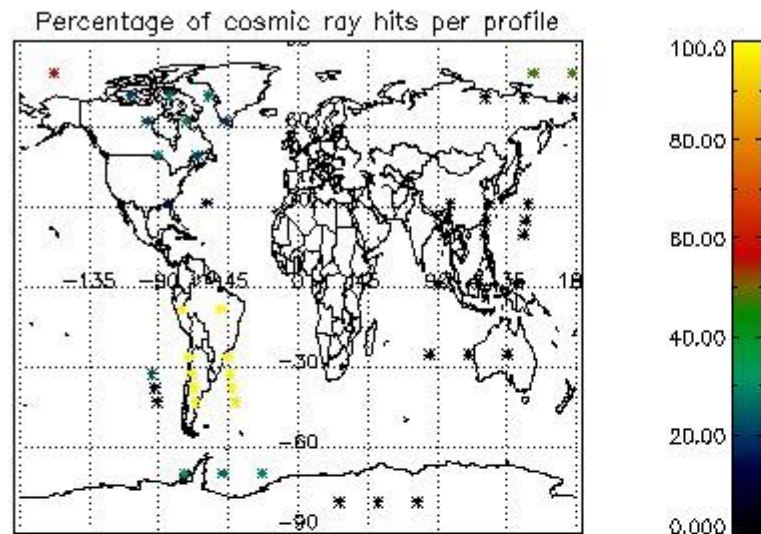
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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)



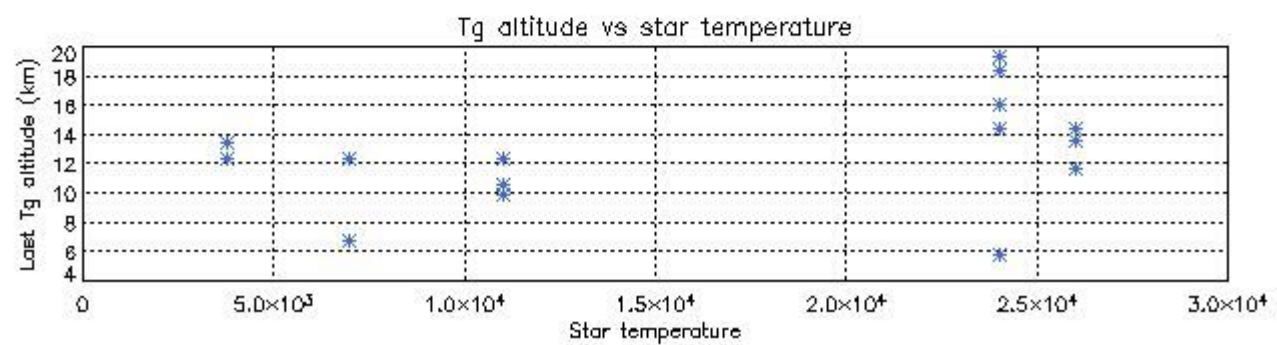
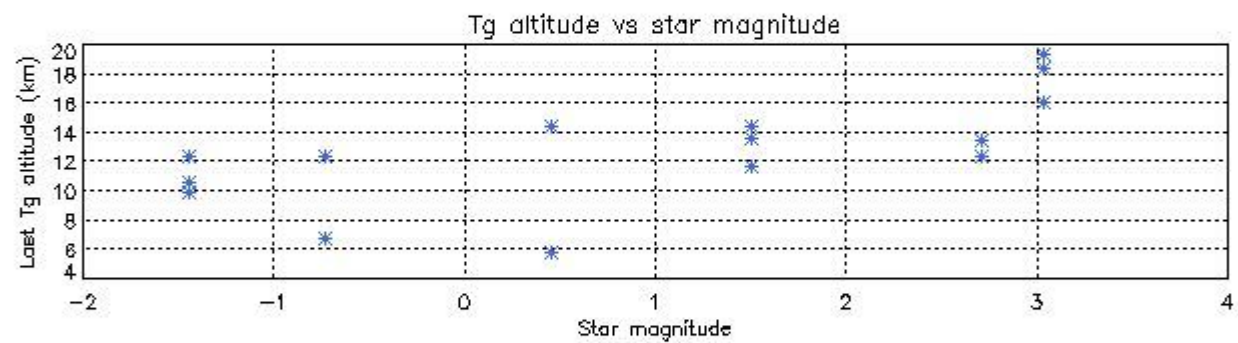
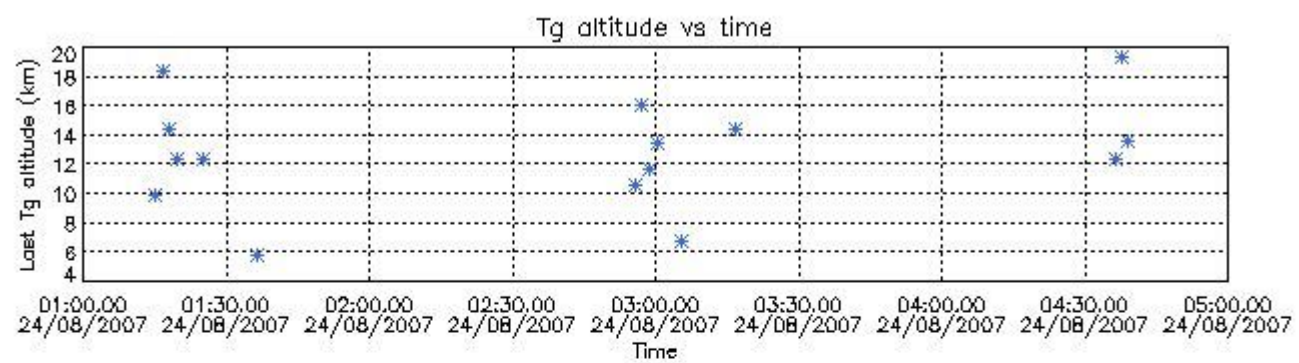
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.734	19.736	17.726
St. deviation:	3.7123	3.7934	1.2237
Maximum:	19.359	27.426	18.984
Minimum:	5.7550	11.899	16.540
Number of data:	15.000	24.000	3.0000

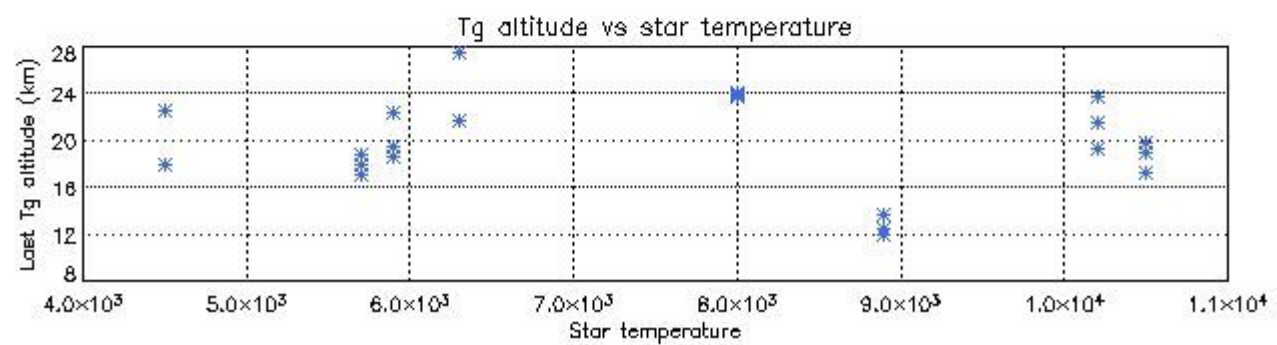
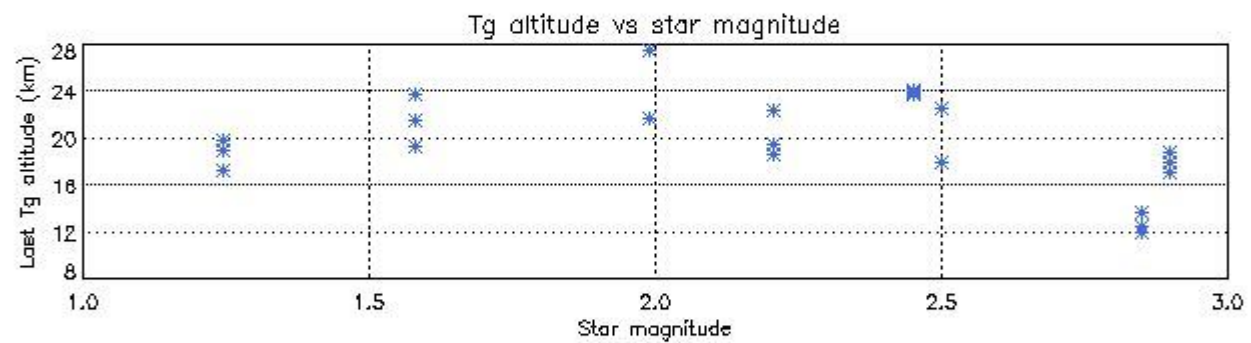
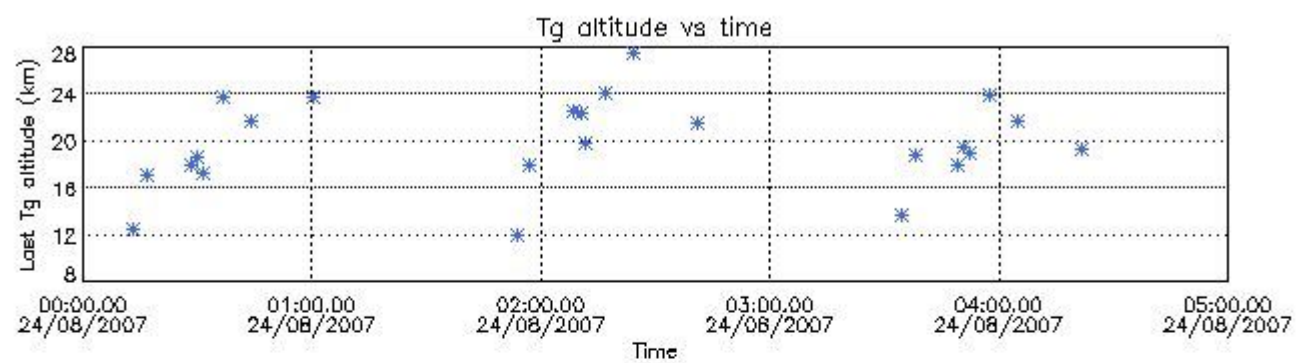
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



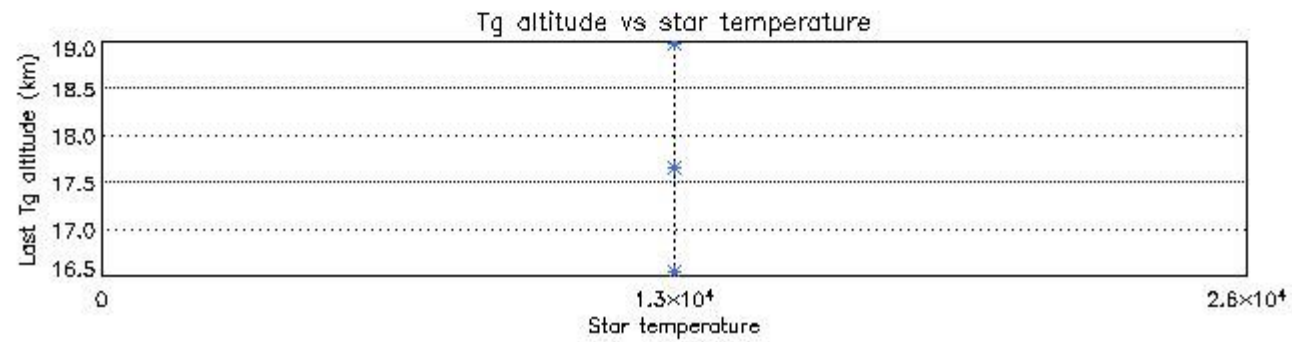
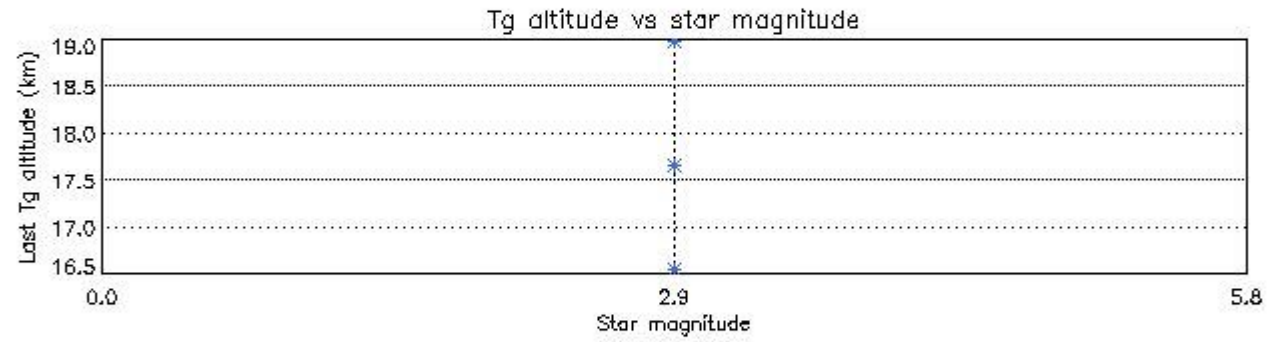
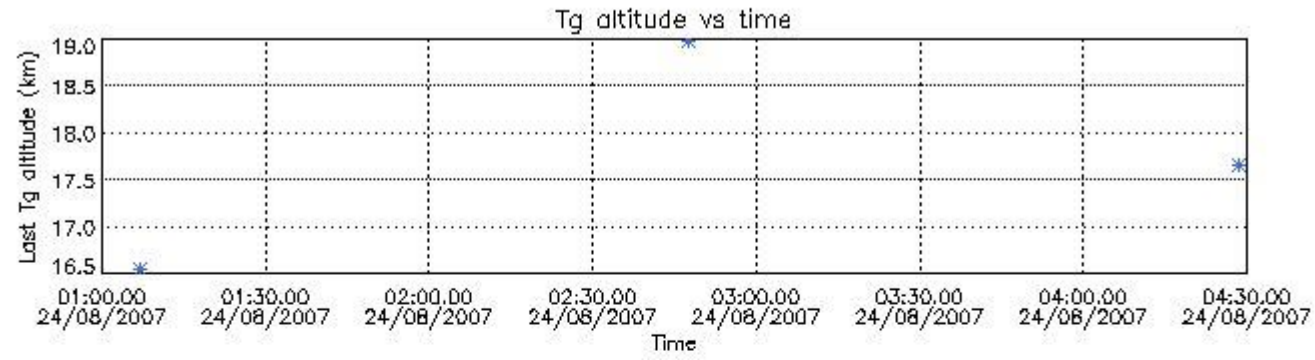
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

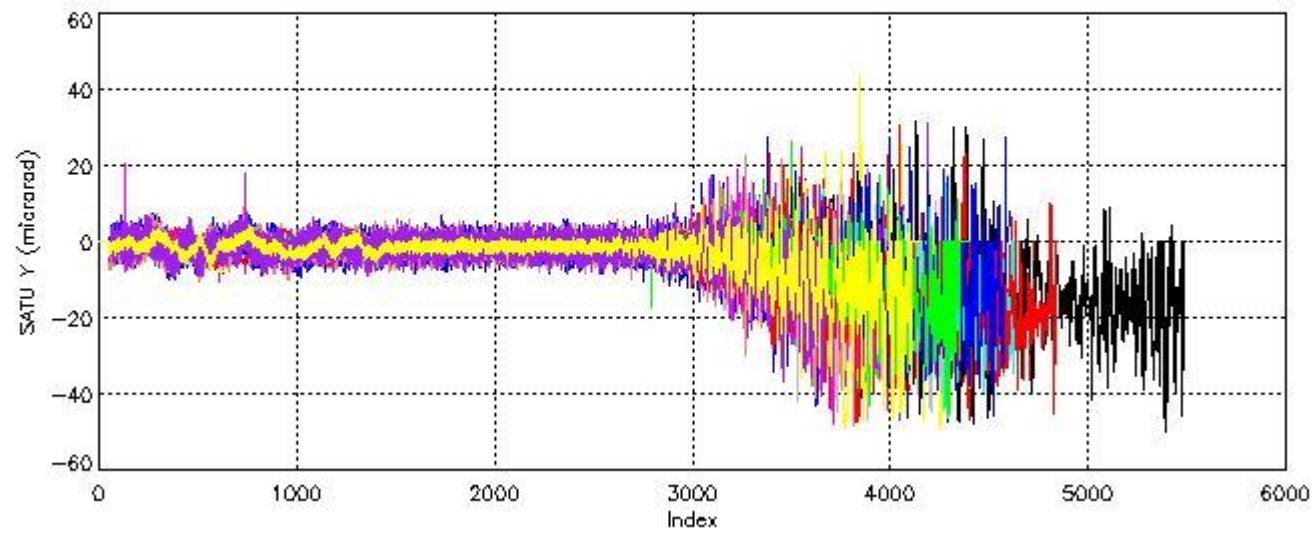
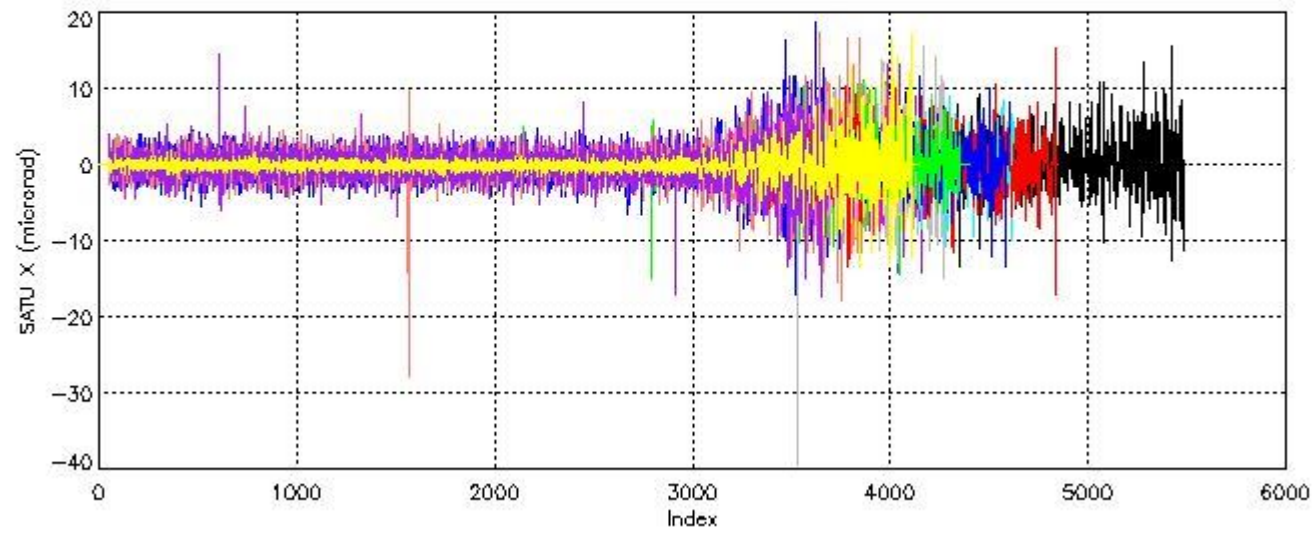


7. Star Acquisition and Tracking Unit (SATU)

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:	0.034566	-1.0777	0.14450	-1.2198
St. deviation:	0.56308	2.1371	0.66921	2.0957
Maximum:	14.400	20.500	4.0000	7.0000
Minimum:	-6.1000	-10.700	-3.8000	-9.4000

Number of data:	13250.	13250.	19800.	19800.
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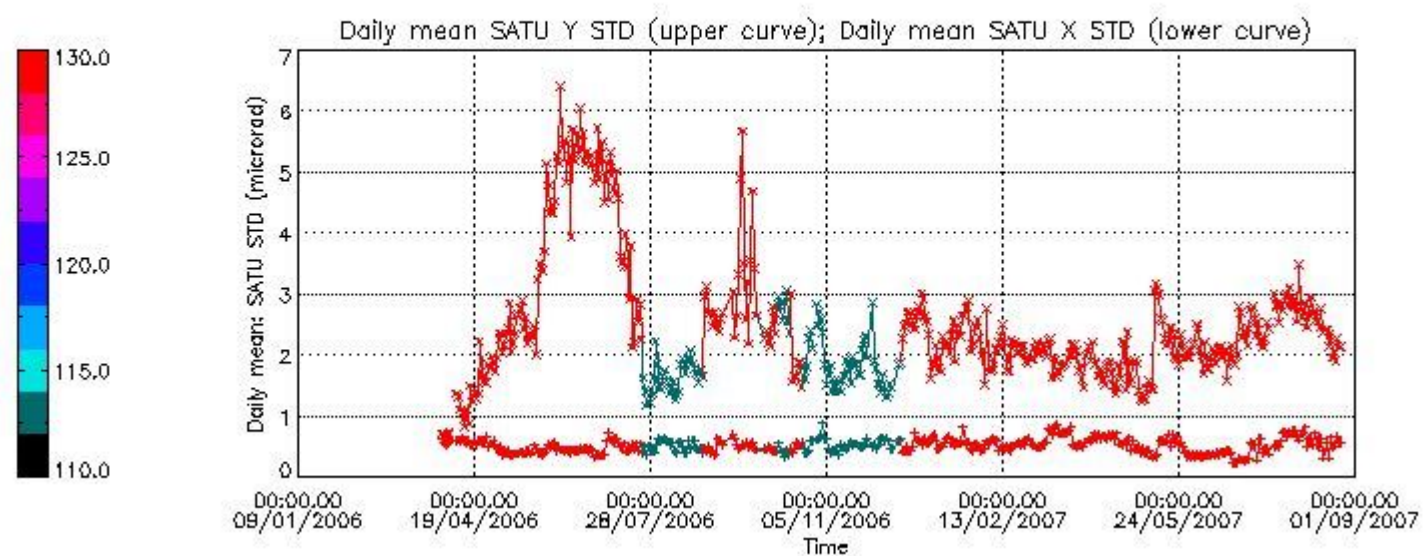
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

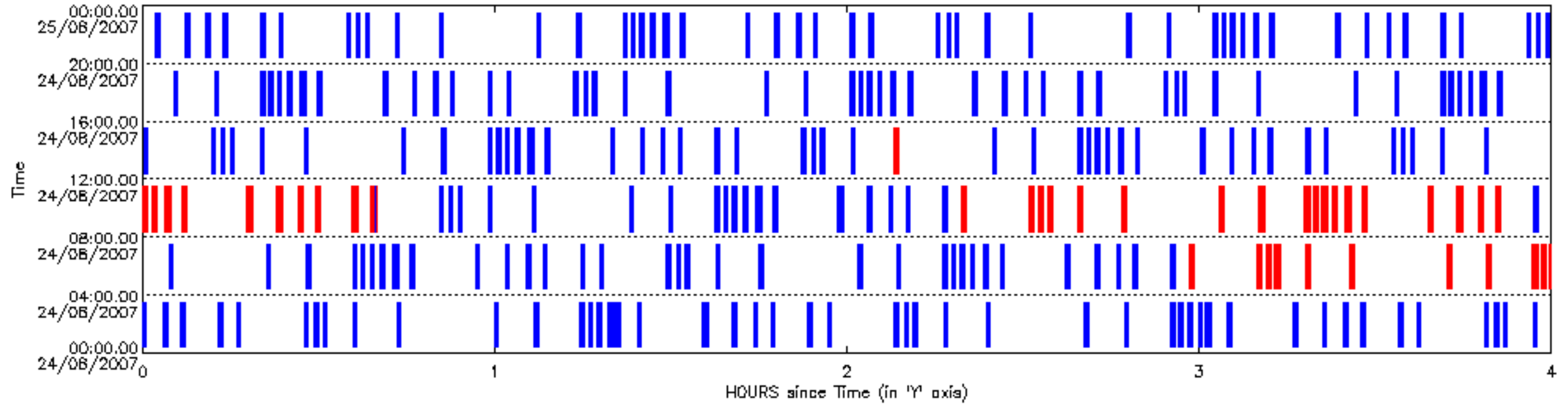
Lower curve: STD of SATU X axis

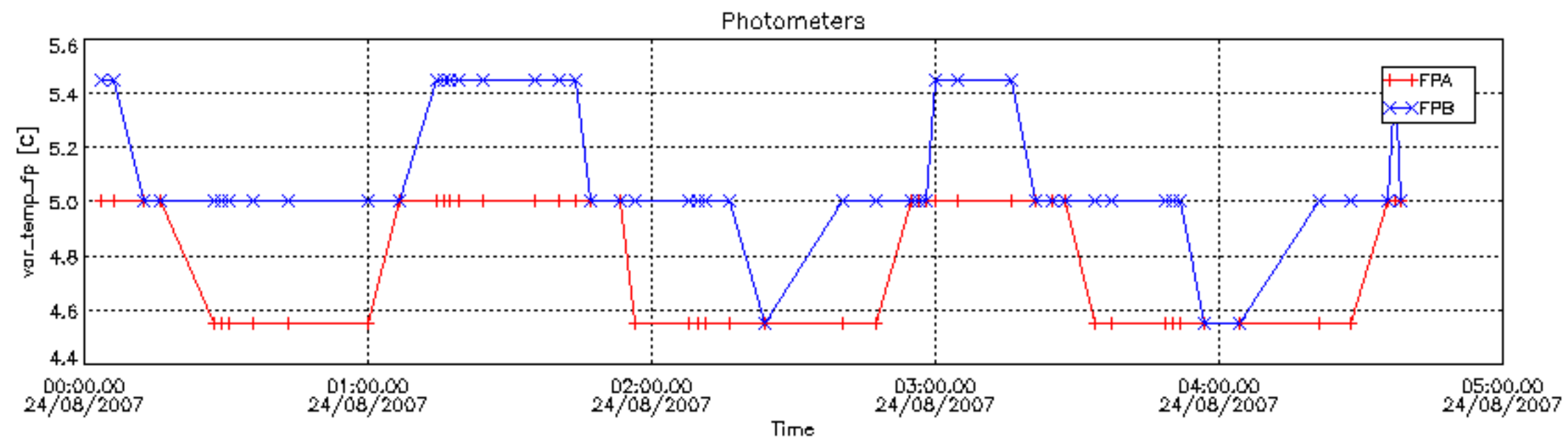
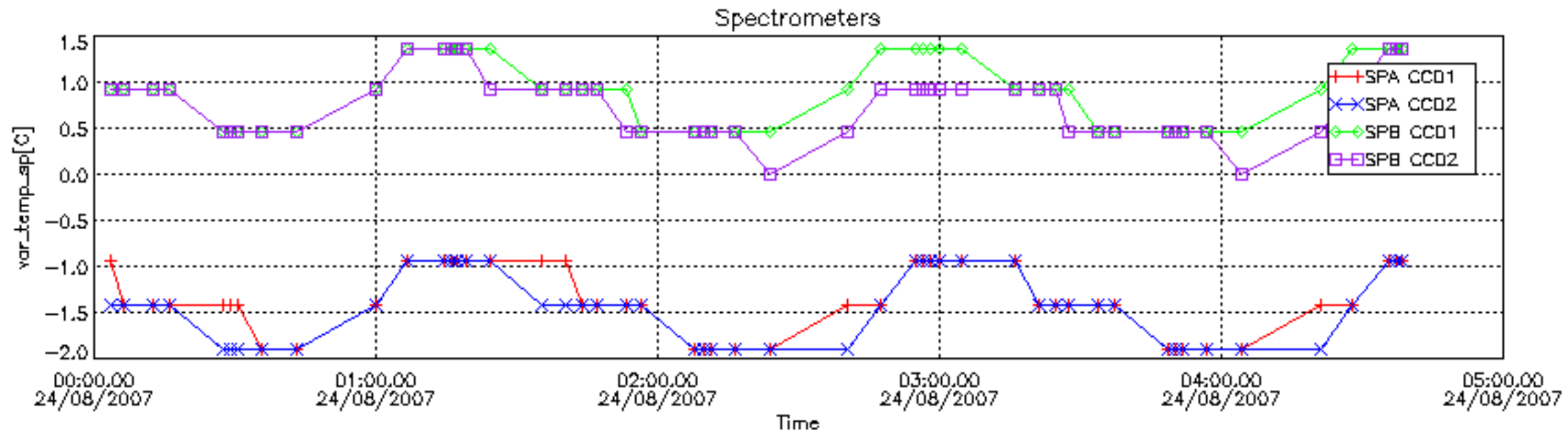


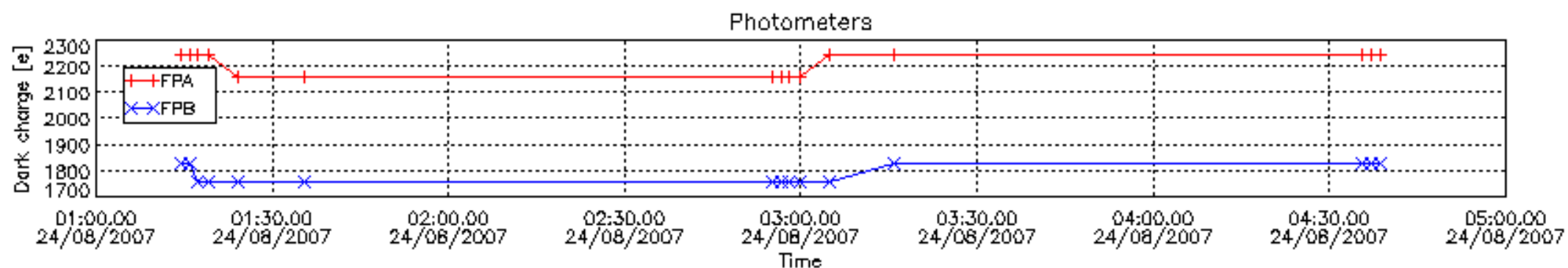
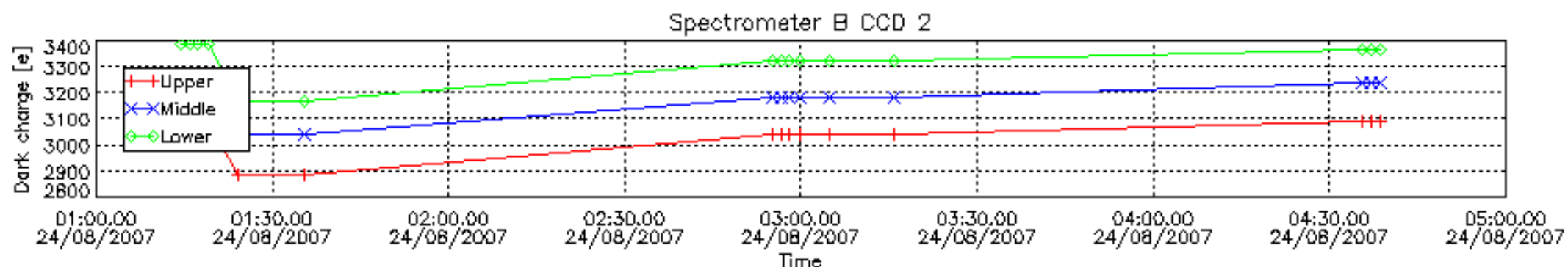
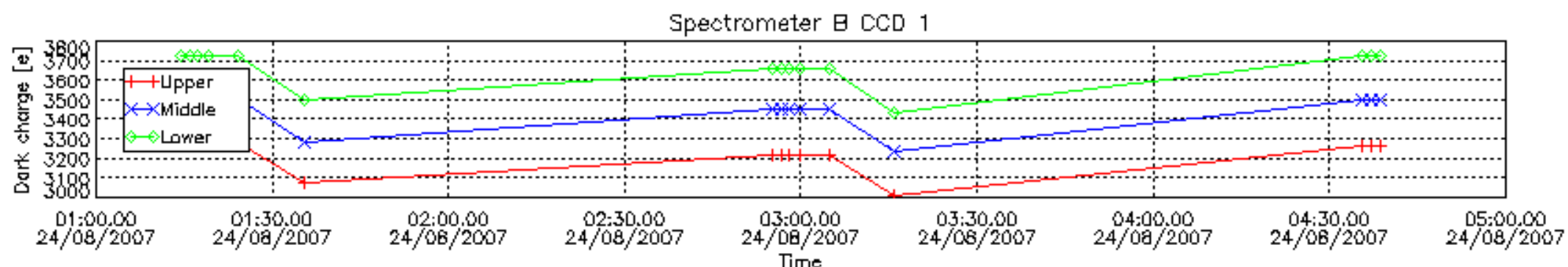
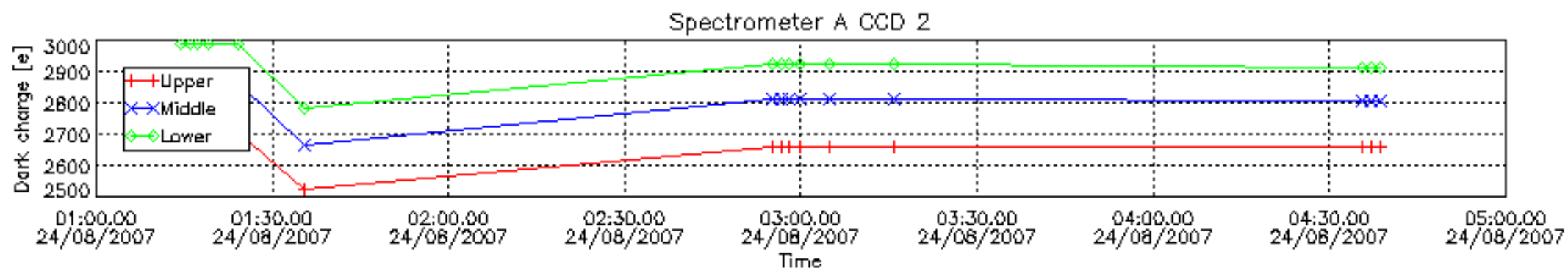
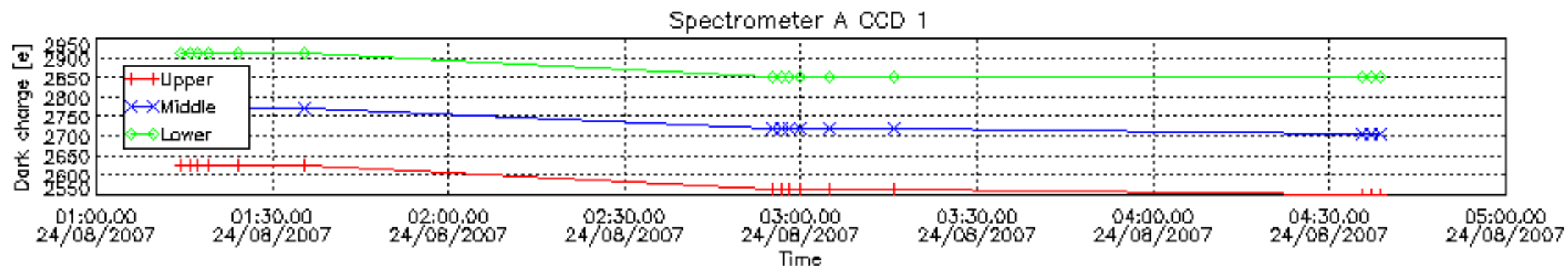
8. Auxiliary Data Files used for the production reported in section 2.4

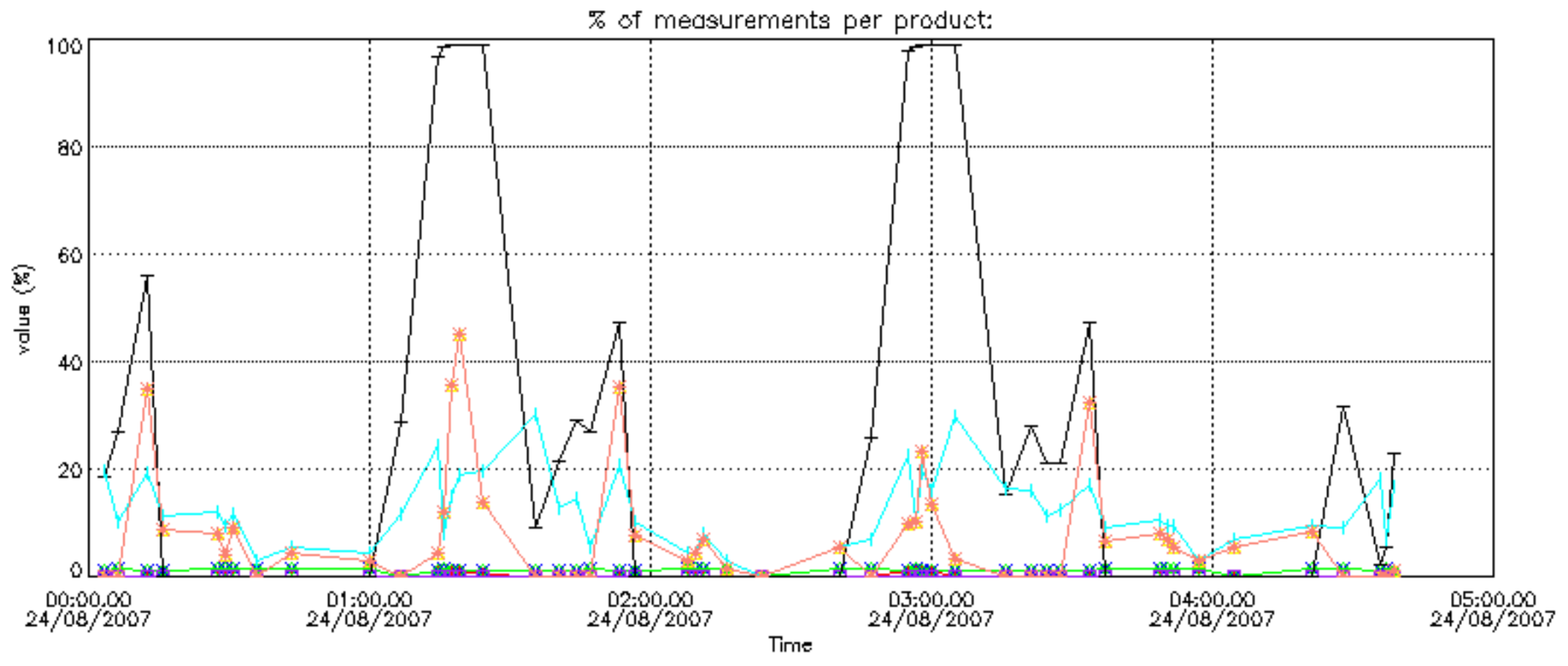
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	24-AUG-2007 00:03:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-AUG-2007 00:03:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-AUG-2007 00:03:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-AUG-2007 00:03:28
ECMWF_FILE	AUX_ECF_AXNECM20070823_061112_20070823_210000_20070824_090000	1	24-AUG-2007 00:03:28
ECMWF_FILE	AUX_ECF_AXNECM20070823_181110_20070824_030000_20070824_150000	46	24-AUG-2007 04:21:05
OPTIONAL_ECMWF_FILE	MISSING	1	24-AUG-2007 00:03:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070823_214905_000057382061_00043_28654_4029.N1	1	24-AUG-2007 00:03:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070823_233002_000057382061_00044_28655_4030.N1	12	24-AUG-2007 01:14:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070824_011059_000041442061_00045_28656_4031.N1	28	24-AUG-2007 02:40:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070824_022522_000057382061_00046_28657_4032.N1	46	24-AUG-2007 04:21:05

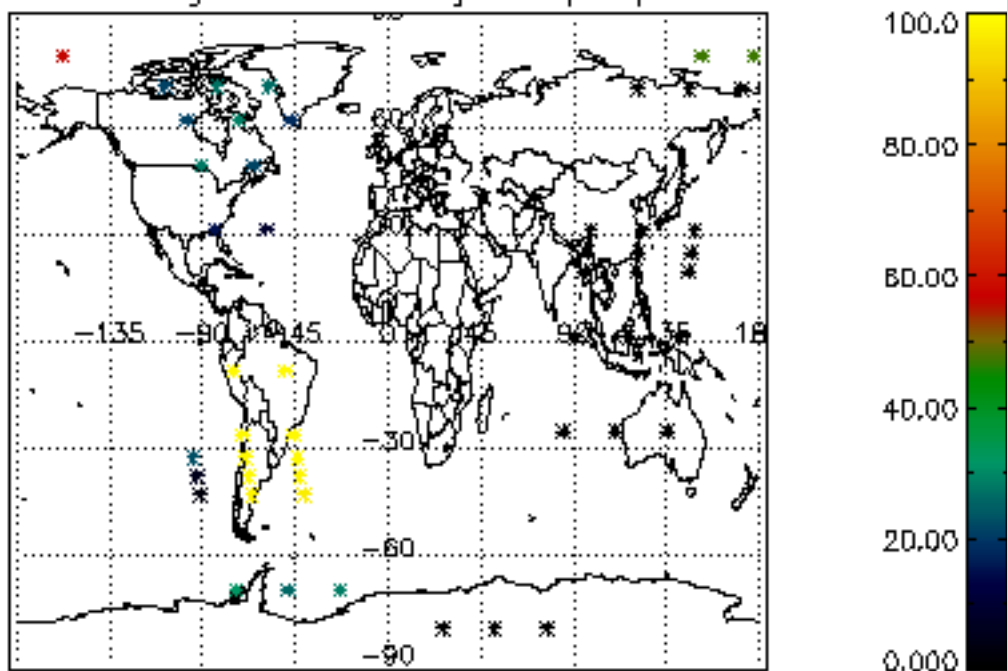




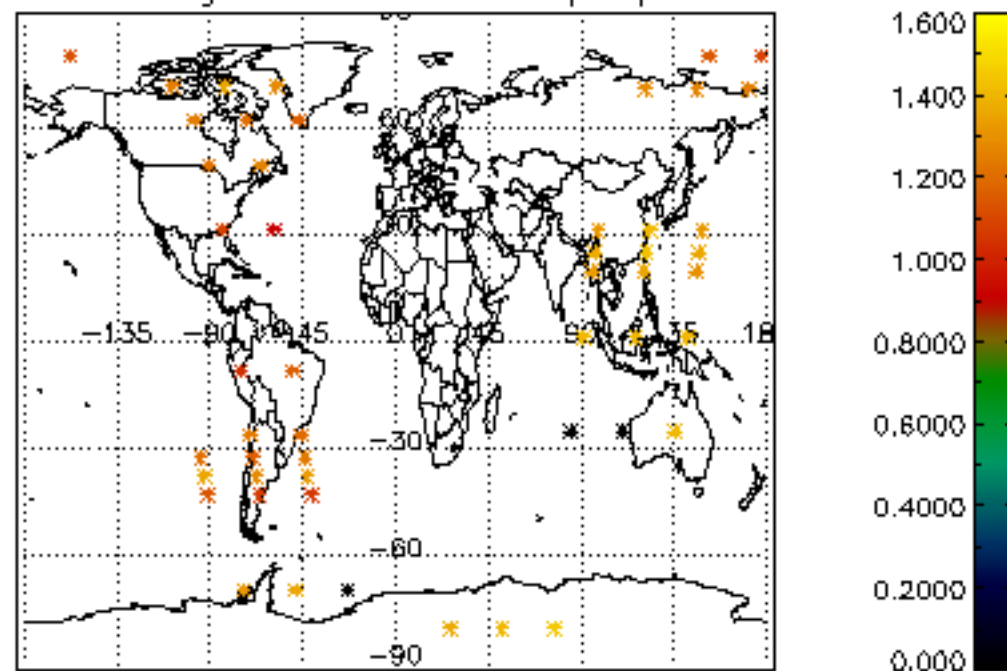




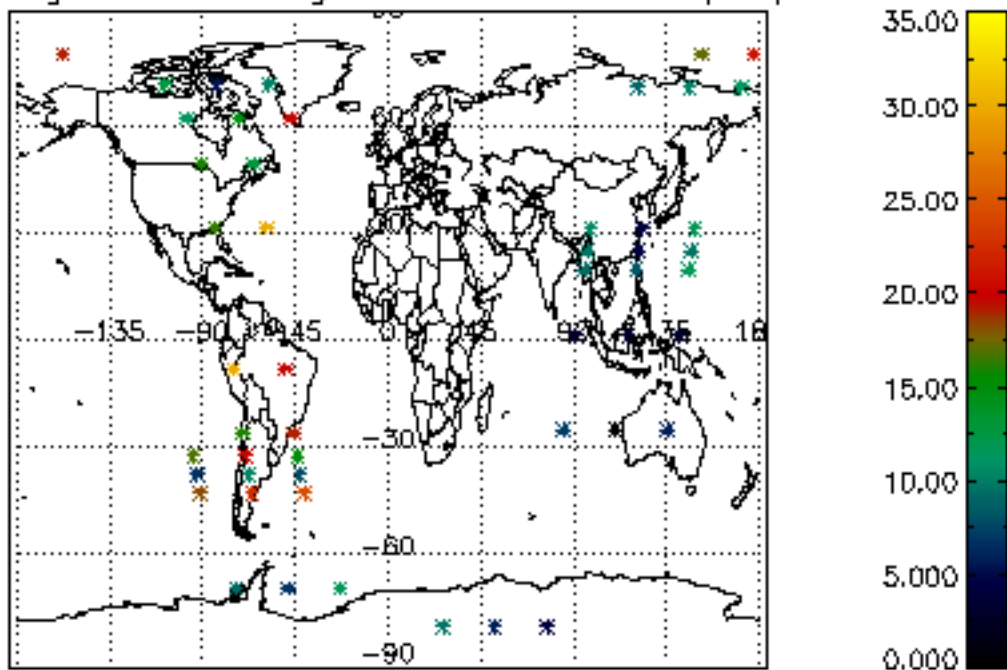
Percentage of cosmic ray hits per profile



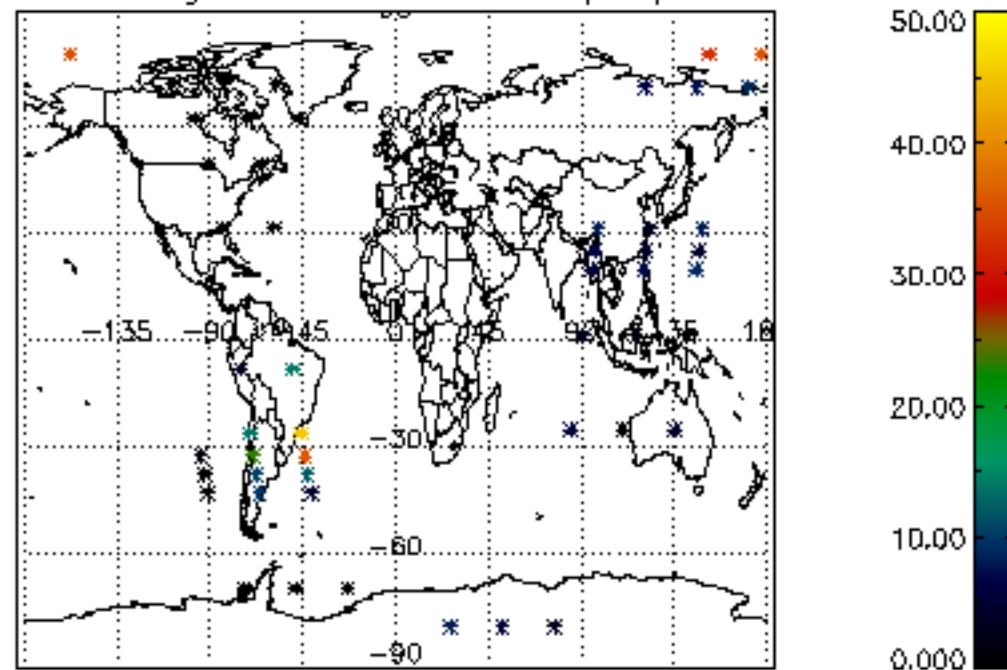
Percentage of datation errors per profile



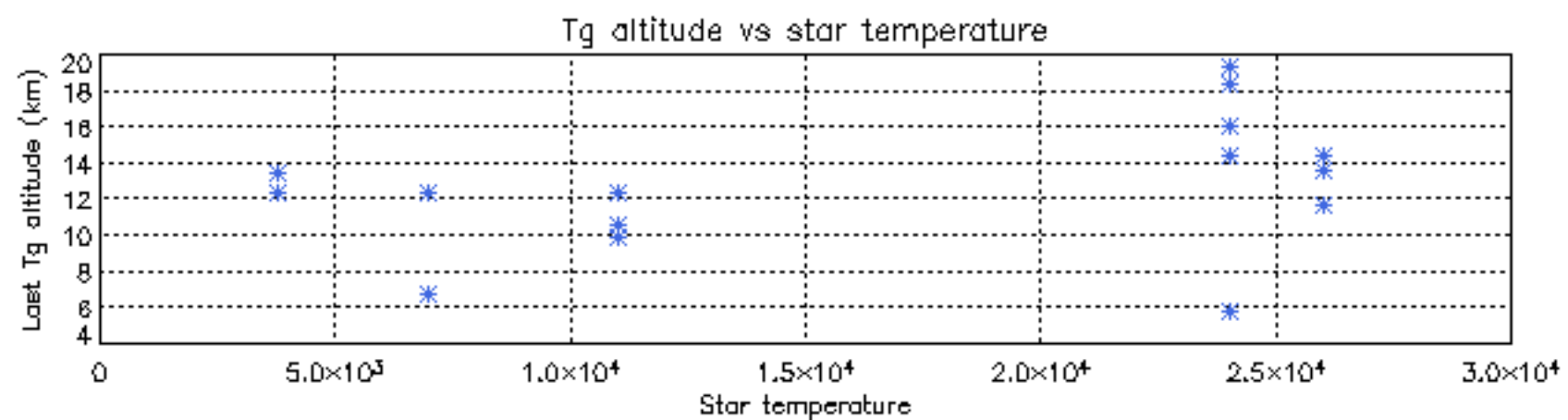
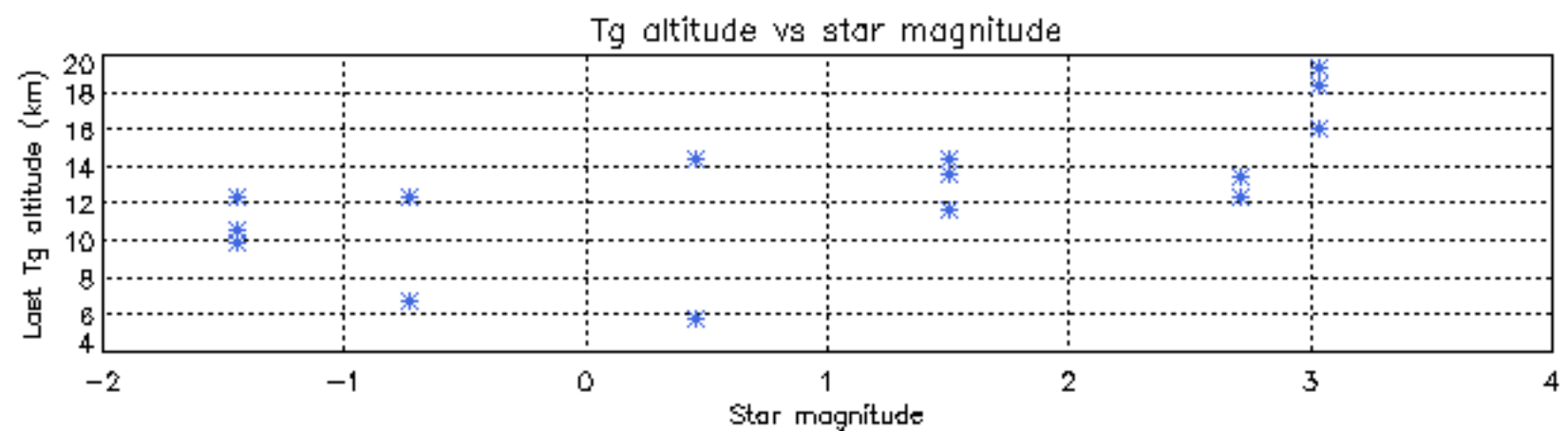
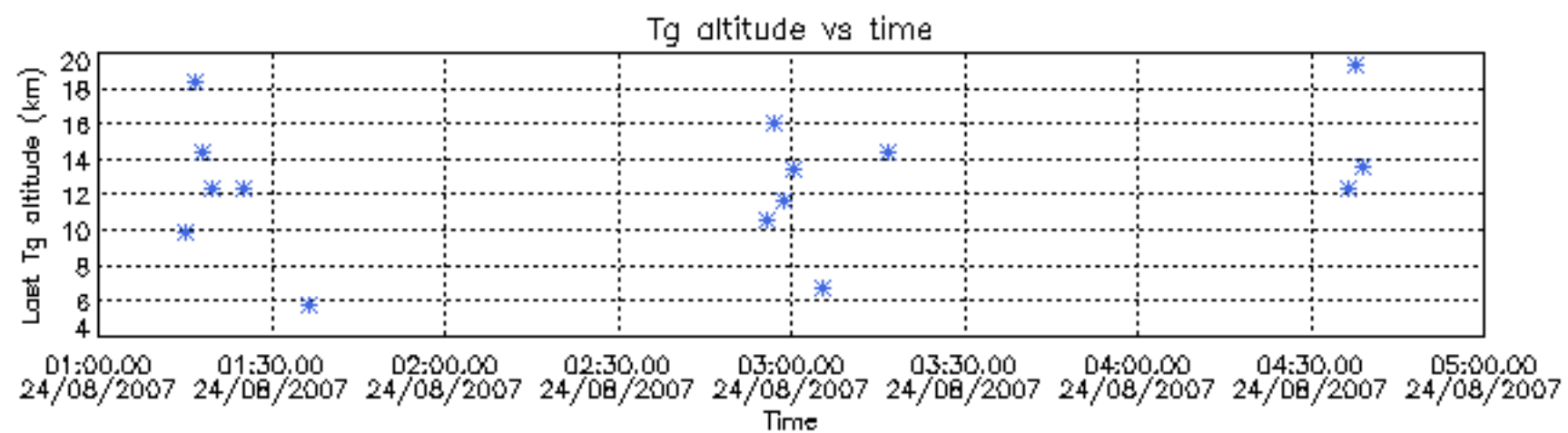
Percentage of star falling outside central band per profile



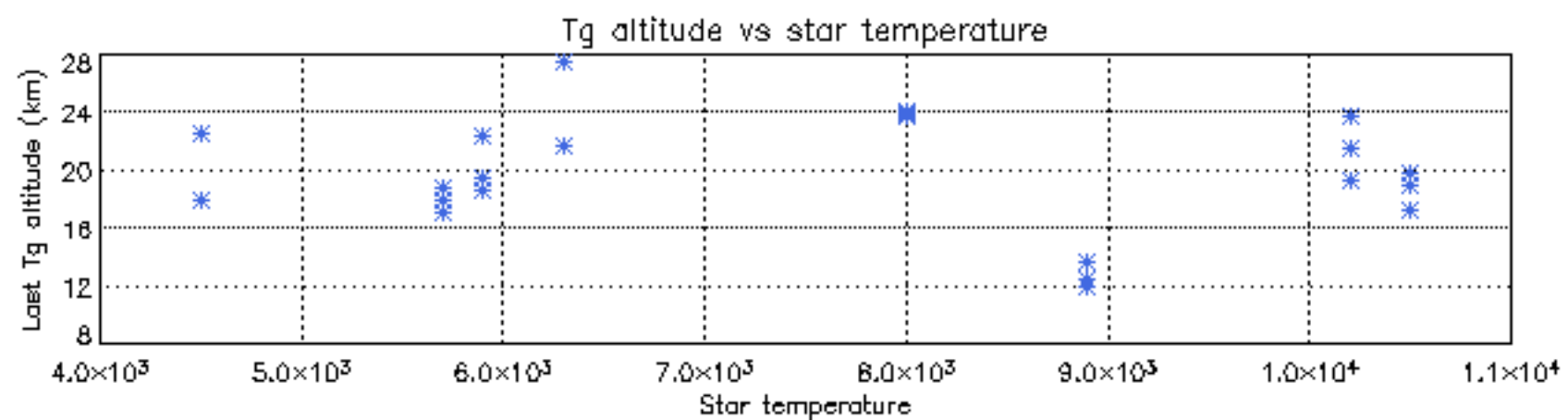
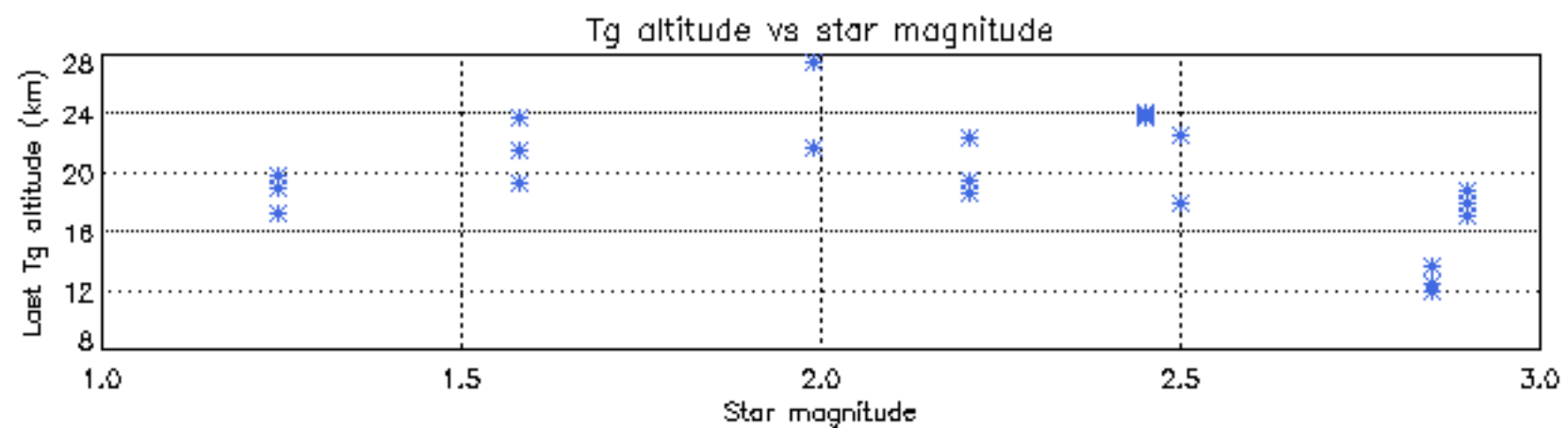
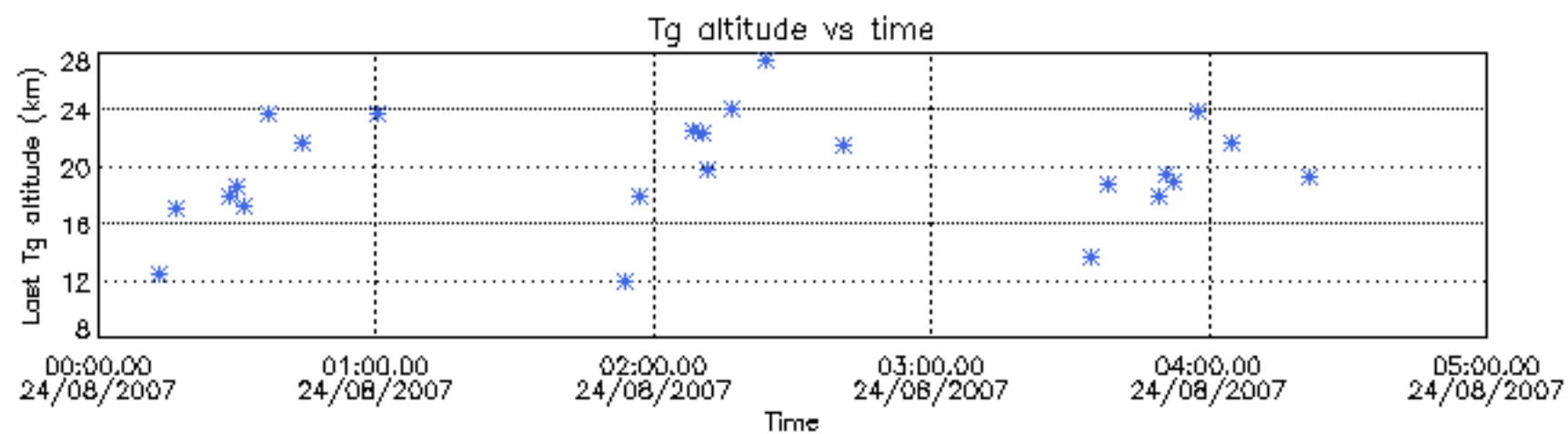
Percentage of saturation errors per profile



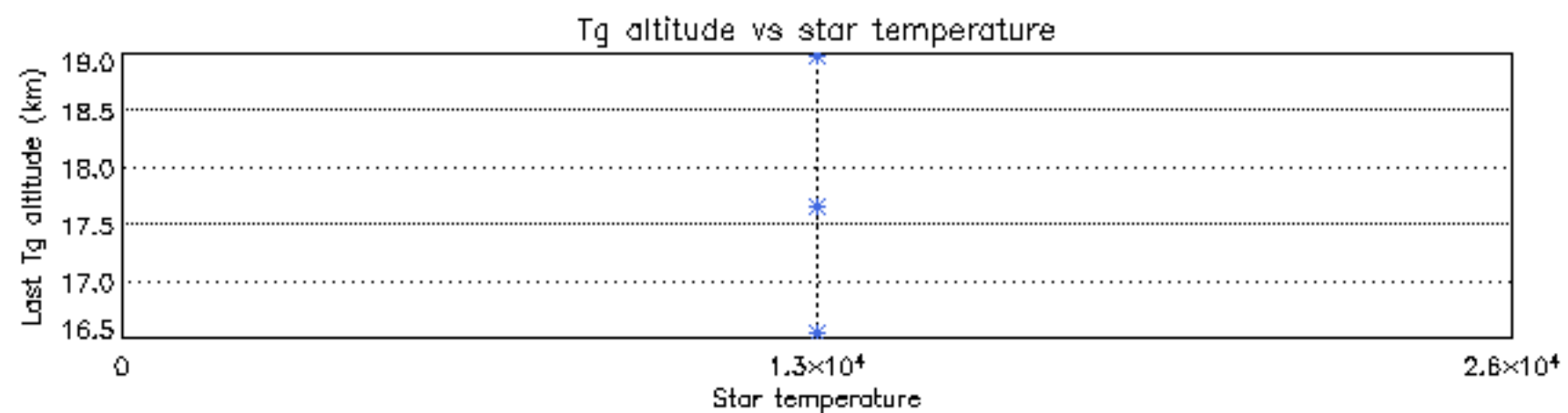
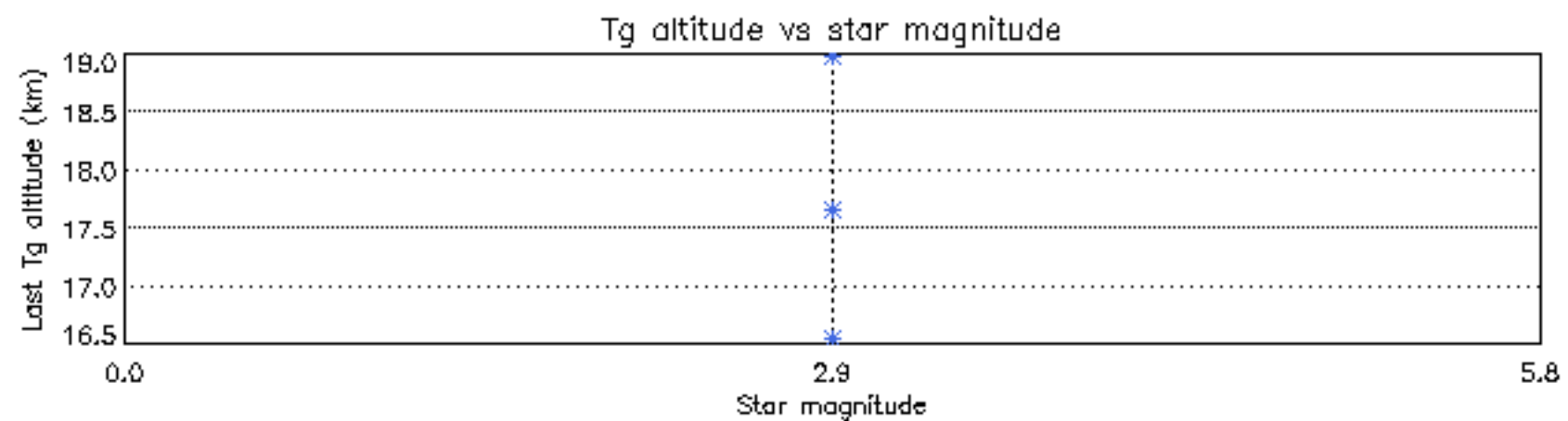
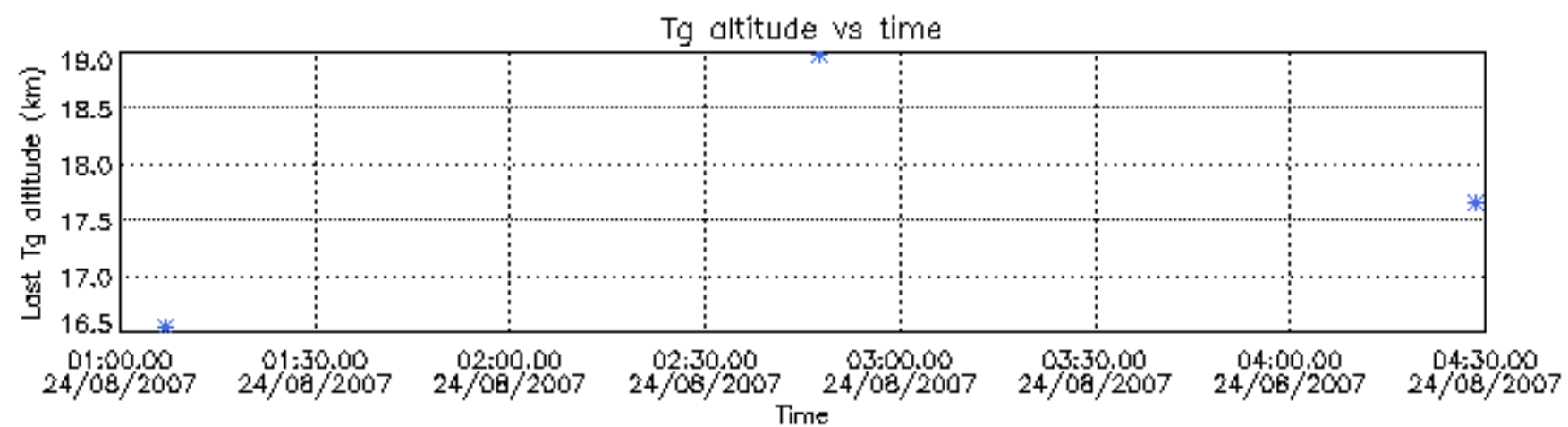
Tangent altitude at which the star is lost

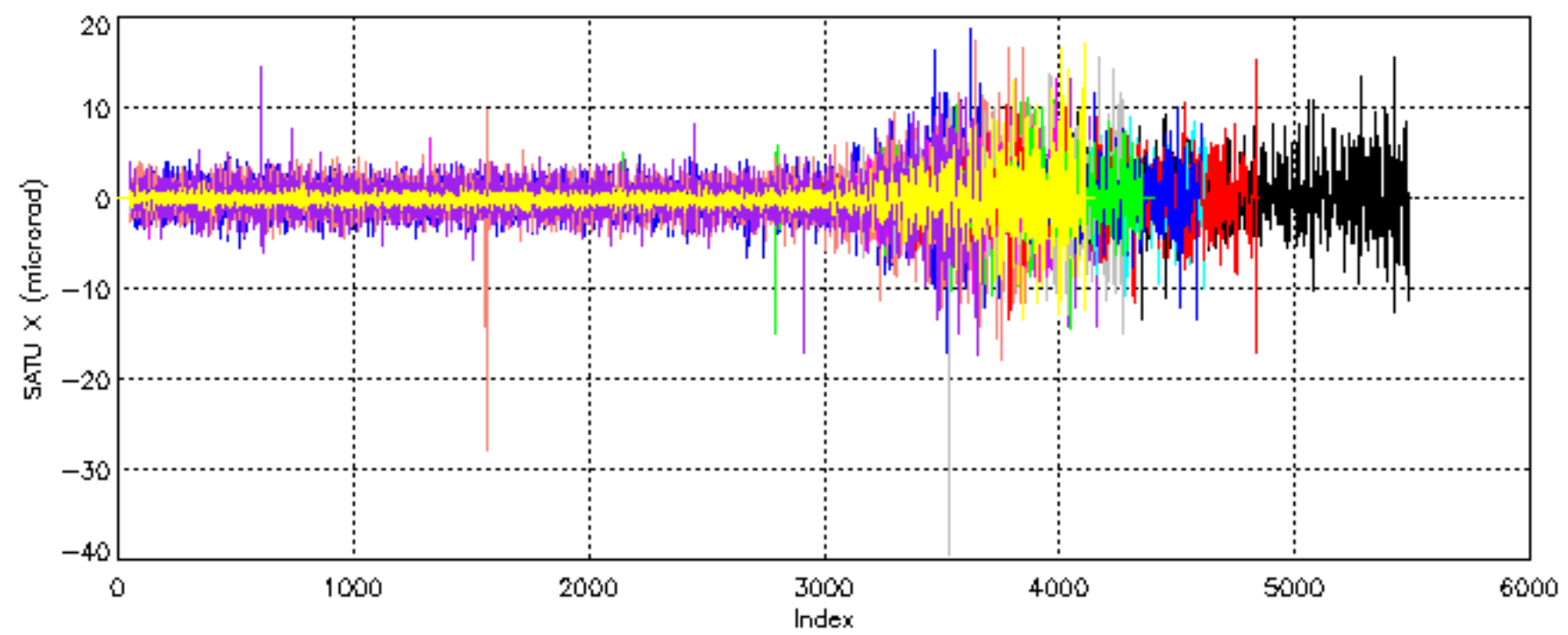


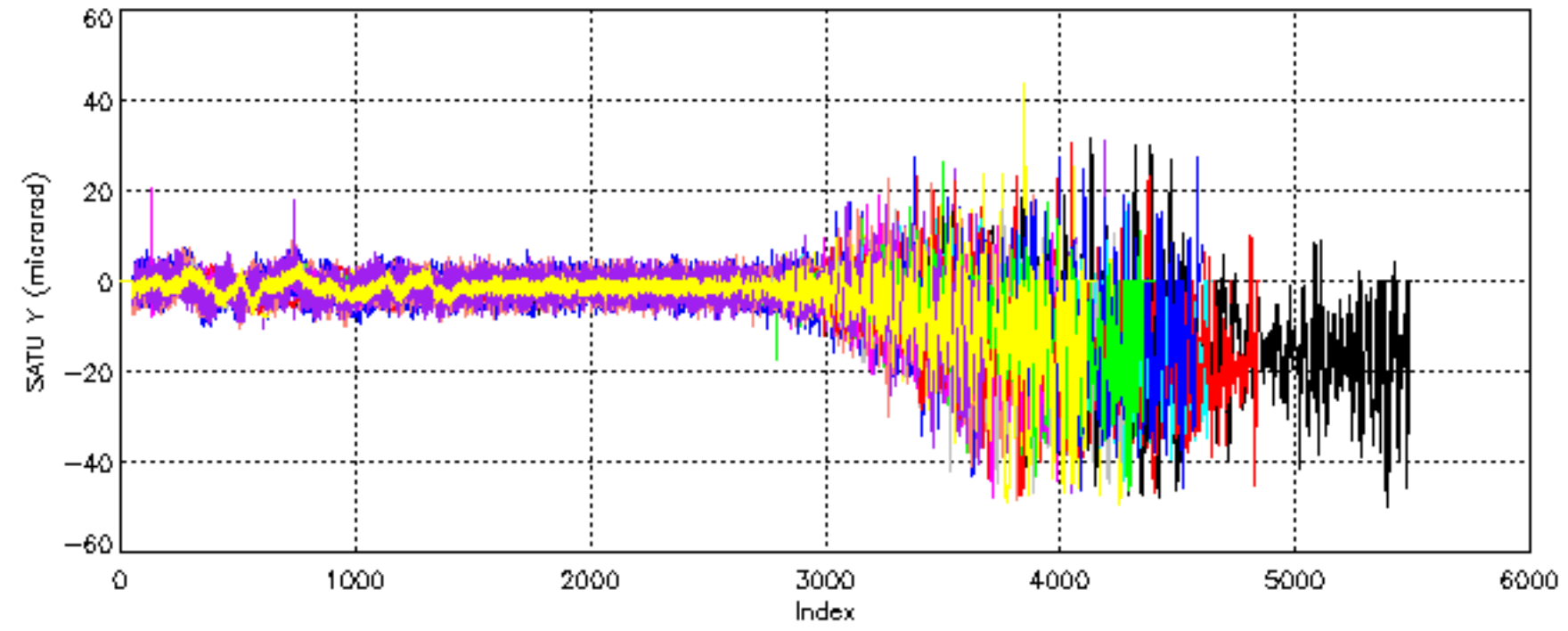
Tangent altitude at which the star is lost

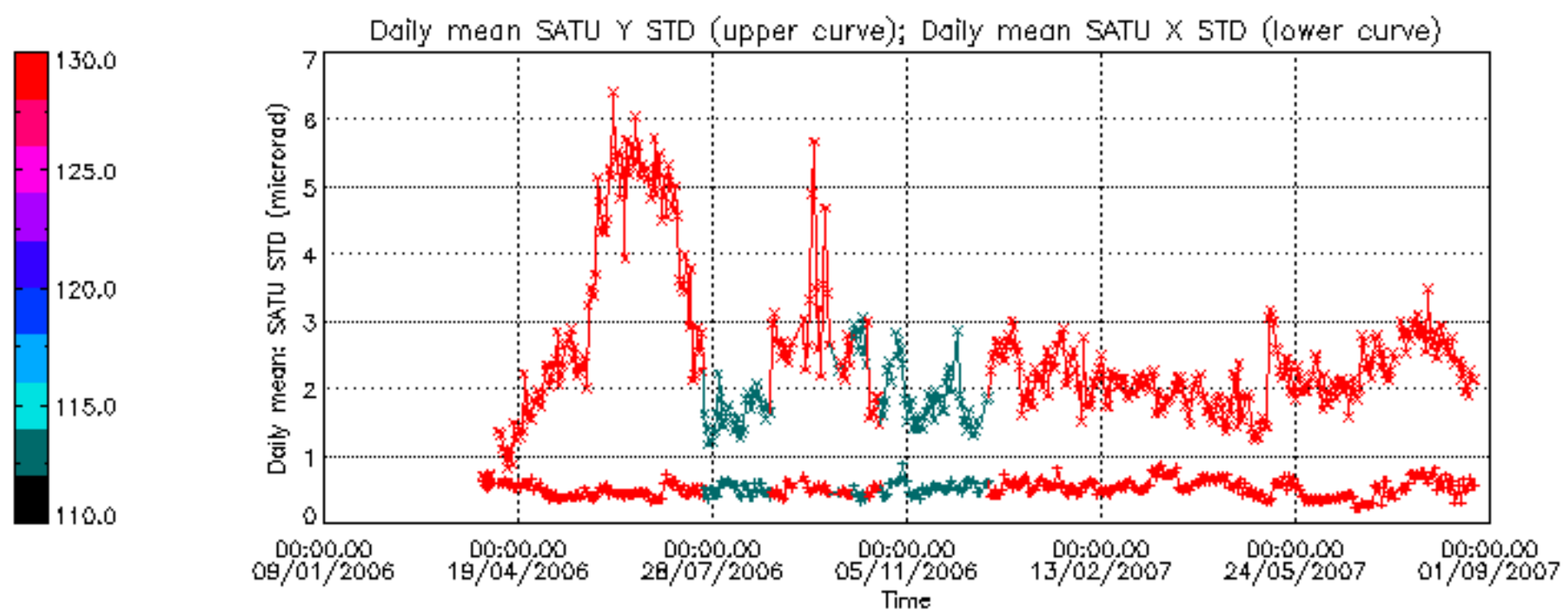


Tangent altitude at which the star is lost









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 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328
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 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328
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 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329
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 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

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 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
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5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340
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7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340
9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340
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17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340
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22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340
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9; -579.8; 01-AUG-2007 06:41:42; Dark ; 38.0; 177; 1Zet CMA ; 3.02; 26000;occ; 76; 0;28330
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 8; 4213.8; 02-AUG-2007 19:14:10; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;28352
 9; 4348.9; 02-AUG-2007 19:16:25; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28352
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 13; 5259.1; 02-AUG-2007 19:31:35; Dark ; 37.5; 47; 2Bet CMA ; 1.98; 28000;occ; 75; 0;28352
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 5; 727.7; 03-AUG-2007 00:58:27; Dark ; 47.5; 148; Alp Tuc ; 2.88; 4100;occ; 95; 0;28356
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 13; 917.7; 03-AUG-2007 04:22:49; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28358
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 13; 917.8; 03-AUG-2007 06:03:25; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;28359
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 18; 2801.6; 03-AUG-2007 06:34:49; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28359
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6; 3440.6; 04-AUG-2007 09:35:03; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28375
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 5; 3440.6; 04-AUG-2007 11:15:39; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28376
 6; 4215.6; 04-AUG-2007 11:28:34; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;28376
 7; 4351.6; 04-AUG-2007 11:30:50; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;28376
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 9; 5039.8; 04-AUG-2007 11:42:18; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;28376
 10; 5120.6; 04-AUG-2007 11:43:39; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;28376
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 19; 7456.7; 04-AUG-2007 12:22:35; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28376
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 6; 3440.6; 04-AUG-2007 12:56:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28377
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 5; 3298.7; 04-AUG-2007 14:34:29; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;28378
 6; 3440.6; 04-AUG-2007 14:36:51; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28378
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19;	6588.1;	26-AUG-2007	15:37:54;	Dark	;	45.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	91;	0;	28693
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3;	1801.8;	26-AUG-2007	15:58:44;	Bright;	;	39.0;	154;	22Bet	Aqr	;	2.90;	5700;	occ;	78;	0;	28694
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9;	2986.2;	26-AUG-2007	16:18:28;	Bright;	;	35.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	71;	0;	28694
10;	3436.2;	26-AUG-2007	16:25:58;	Bright;	;	35.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	70;	0;	28694
11;	4440.9;	26-AUG-2007	16:42:43;	Bright;	;	36.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	72;	0;	28694

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 12; 2486.3; 27-AUG-2007 02:13:44; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28700

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11; 585.1; 30-AUG-2007 06:49:35; Dark ; 56.5; 9; Alp Eri ; 0.45; 24000;occ; 113; 0;28746
12; 943.0; 30-AUG-2007 06:55:33; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;28746
13; 1040.9; 30-AUG-2007 06:57:11; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;28746
14; 1320.8; 30-AUG-2007 07:01:51; Dark ; 51.0; 18; 24Alp PsA ; 1.17; 9700;occ; 102; 0;28746
15; 1615.5; 30-AUG-2007 07:06:46; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28746

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2; 1896.8; 30-AUG-2007 07:11:27; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28746
3; 2077.5; 30-AUG-2007 07:14:28; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28746
4; 2486.6; 30-AUG-2007 07:21:17; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28746
5; 2677.5; 30-AUG-2007 07:24:28; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28746
6; 2979.1; 30-AUG-2007 07:29:29; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28746
7; 3435.2; 30-AUG-2007 07:37:06; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28746
8; 4448.3; 30-AUG-2007 07:53:59; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;28746
9; 4604.9; 30-AUG-2007 07:56:35; Dark ; 46.0; 170; 27Eps Gem ; 3.00; 9700;occ; 92; 0;28746
10; 4780.8; 30-AUG-2007 07:59:31; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;28746
11; 4905.5; 30-AUG-2007 08:01:36; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28746
12; 5356.1; 30-AUG-2007 08:09:06; Dark ; 53.5; 1; 9Alp CMa ; -1.44; 11000;occ; 107; 0;28746
13; 5436.5; 30-AUG-2007 08:10:27; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;28746
14; 5524.6; 30-AUG-2007 08:11:55; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28746
15; 5619.6; 30-AUG-2007 08:13:30; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28746
16; 5715.9; 30-AUG-2007 08:15:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28746
17; 6546.5; 30-AUG-2007 08:28:57; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28746
18; 6621.6; 30-AUG-2007 08:30:12; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28746
19; 6979.6; 30-AUG-2007 08:36:10; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28746
20; 7077.2; 30-AUG-2007 08:37:47; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28746
21; 7357.0; 30-AUG-2007 08:42:27; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28746
22; 7651.5; 30-AUG-2007 08:47:22; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28746
23; 7841.2; 30-AUG-2007 08:50:31; Bright; 16.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 32; 0;28746

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2; 1896.8; 30-AUG-2007 08:52:03; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28747
3; 2077.4; 30-AUG-2007 08:55:04; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;28747
4; 2486.6; 30-AUG-2007 09:01:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28747

5; 2677.5; 30-AUG-2007 09:05:04; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;28747
6; 2979.0; 30-AUG-2007 09:10:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28747
7; 3435.2; 30-AUG-2007 09:17:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;28747
8; 4448.5; 30-AUG-2007 09:34:35; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28747
9; 4605.1; 30-AUG-2007 09:37:11; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28747
10; 4781.2; 30-AUG-2007 09:40:07; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28747
11; 4905.8; 30-AUG-2007 09:42:12; Dark ; 41.0; 8; 10Alp CMi ; 0.40; 6500;occ; 82; 0;28747
12; 5356.6; 30-AUG-2007 09:49:43; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0;28747
13; 5436.8; 30-AUG-2007 09:51:03; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;28747
14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747
17; 6547.1; 30-AUG-2007 10:09:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28747
18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747
19; 6980.2; 30-AUG-2007 10:16:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28747
20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747
21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748
11; 4906.1; 30-AUG-2007 11:22:48; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28748
12; 5357.1; 30-AUG-2007 11:30:19; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;28748
13; 5437.3; 30-AUG-2007 11:31:39; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;28748
14; 5525.5; 30-AUG-2007 11:33:08; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28748
15; 5621.0; 30-AUG-2007 11:34:43; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79; 0;28748
16; 5717.1; 30-AUG-2007 11:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28748
17; 6547.6; 30-AUG-2007 11:50:10; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28748
18; 6622.8; 30-AUG-2007 11:51:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28748
19; 6980.7; 30-AUG-2007 11:57:23; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;28748
20; 7077.7; 30-AUG-2007 11:59:00; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;28748
21; 7357.4; 30-AUG-2007 12:03:40; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;28748
22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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2; 1805.4; 30-AUG-2007 12:11:43; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28749
3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749
4; 2077.3; 30-AUG-2007 12:16:15; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28749
5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749
11; 4781.9; 30-AUG-2007 13:01:20; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28749
12; 4906.4; 30-AUG-2007 13:03:24; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;28749
13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749
14; 5438.0; 30-AUG-2007 13:12:16; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;28749
15; 5526.1; 30-AUG-2007 13:13:44; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;28749
16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749
17; 5717.7; 30-AUG-2007 13:16:56; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28749
18; 6548.2; 30-AUG-2007 13:30:46; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28749
19; 6623.4; 30-AUG-2007 13:32:01; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28749
20; 6981.3; 30-AUG-2007 13:37:59; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;28749
21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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2; 1805.6; 30-AUG-2007 13:52:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28750
3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750
5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750
10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750
12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750
14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750
15; 5526.6; 30-AUG-2007 14:54:20; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;28750
16; 5622.3; 30-AUG-2007 14:55:56; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28750
17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750
18; 6548.9; 30-AUG-2007 15:11:23; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28750
19; 6624.1; 30-AUG-2007 15:12:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28750
20; 6982.1; 30-AUG-2007 15:18:36; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28750
21; 7078.5; 30-AUG-2007 15:20:12; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;28750

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2; 1616.3; 30-AUG-2007 15:29:46; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28751
3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751
7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751
8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751
14; 5359.0; 30-AUG-2007 16:32:09; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;28751
15; 5438.9; 30-AUG-2007 16:33:29; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;28751
16; 5527.1; 30-AUG-2007 16:34:57; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;28751
17; 5623.0; 30-AUG-2007 16:36:33; Dark ; 41.0; 177; 1Zet CMa ; 3.02; 26000;occ; 82; 0;28751
18; 5719.1; 30-AUG-2007 16:38:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28751
19; 6549.3; 30-AUG-2007 16:51:59; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;28751
20; 6624.8; 30-AUG-2007 16:53:15; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28751
21; 6982.8; 30-AUG-2007 16:59:13; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;28751
22; 7078.9; 30-AUG-2007 17:00:49; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28751

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2; 1616.3; 30-AUG-2007 17:10:22; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;28752
3; 1805.6; 30-AUG-2007 17:13:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28752
4; 1896.7; 30-AUG-2007 17:15:02; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28752
5; 2077.1; 30-AUG-2007 17:18:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28752
6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752
10; 4449.2; 30-AUG-2007 17:57:35; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28752
11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752
14; 5359.6; 30-AUG-2007 18:12:45; Dark ; 51.5; 1; 9Alp CMa ; -1.44; 11000;occ; 103; 0;28752
15; 5439.4; 30-AUG-2007 18:14:05; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;28752
16; 5527.6; 30-AUG-2007 18:15:33; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28752
17; 5623.8; 30-AUG-2007 18:17:10; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28752
18; 5719.7; 30-AUG-2007 18:18:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28752
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20; 6625.4; 30-AUG-2007 18:33:51; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28752
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9; 2677.8; 31-AUG-2007 18:37:02; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28767
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11; 3434.8; 31-AUG-2007 18:49:39; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28767
12; 4451.2; 31-AUG-2007 19:06:36; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28767
13; 4609.9; 31-AUG-2007 19:09:15; Dark ; 49.0; 170; 27Eps Gem ; 3.00; 9700;occ; 98; 0;28767
14; 4788.5; 31-AUG-2007 19:12:13; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28767
15; 4911.7; 31-AUG-2007 19:14:16; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28767
16; 5368.3; 31-AUG-2007 19:21:53; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;28767
17; 5534.9; 31-AUG-2007 19:24:40; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;28767
18; 5633.9; 31-AUG-2007 19:26:19; Dark ; 42.0; 177; 1Zet CMa ; 3.02; 26000;occ; 84; 0;28767
19; 5729.2; 31-AUG-2007 19:27:54; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28767
20; 6558.1; 31-AUG-2007 19:41:43; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28767
21; 6634.5; 31-AUG-2007 19:42:59; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28767
22; 6992.3; 31-AUG-2007 19:48:57; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;28767

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