

GOMOS Daily Report 29-AUG-2008

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	31AUG2008 05:32:15
Data source version	GOMOS/5.00
Start time of products	29AUG2008 00:02:11
Stop time of products	29AUG2008 03:40:21
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)

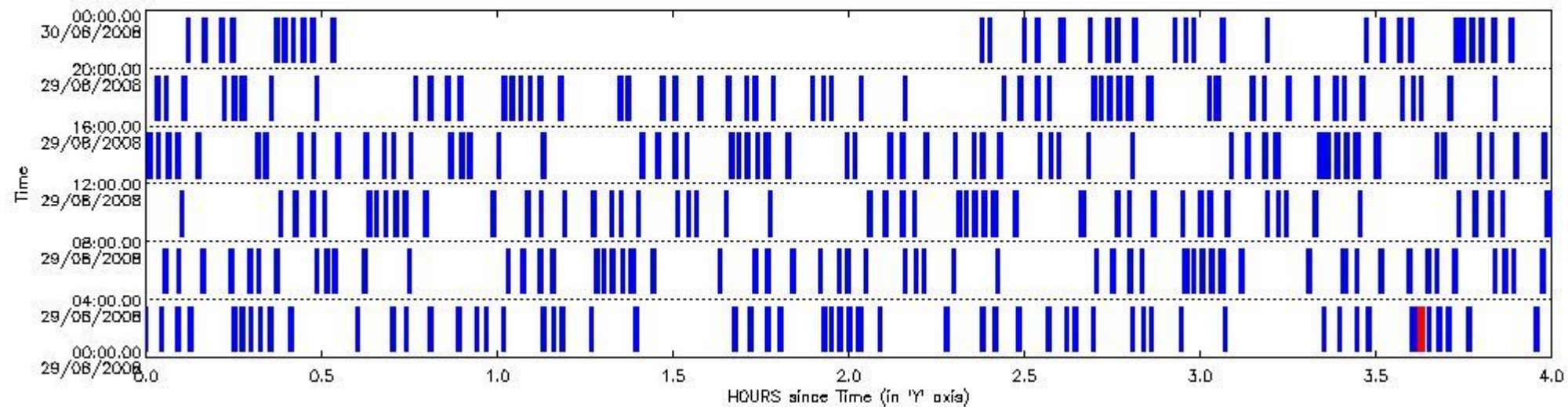
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

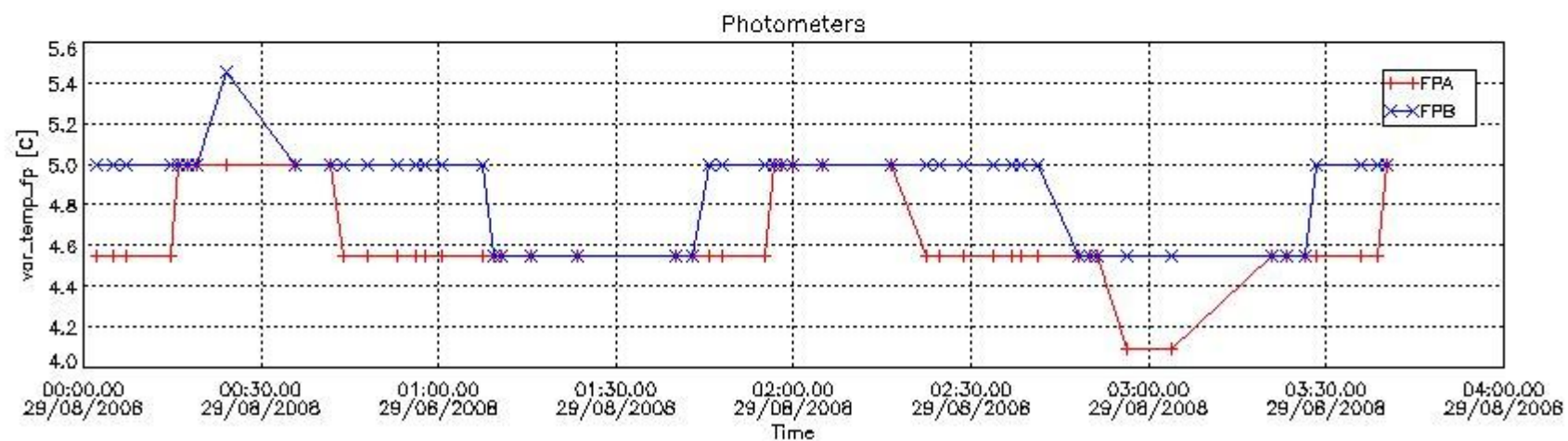
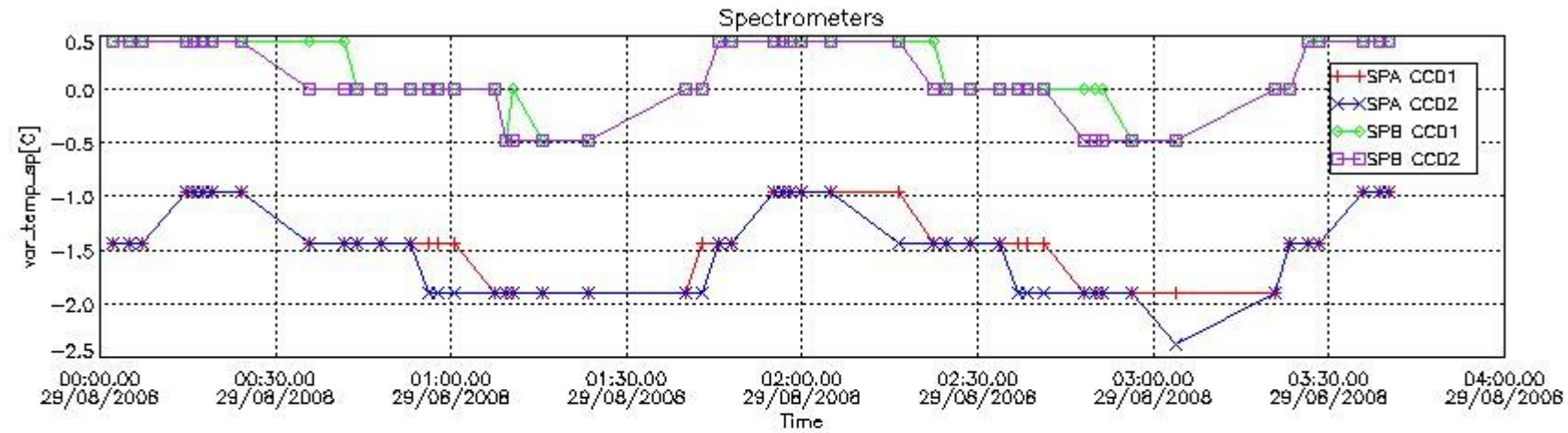
UTC start time	Star name	Star ID	Orbit
29-AUG-2008 03:37:13	24Omi2CMa	179	33968

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_1PNPDE20080829_000211_000000472071_00345_33966_2177.N1	29-AUG-2008 00:02:11	Bright	46.500	170	27Eps Gem	3.0000	9700.0	93	33966	No
2	GOM_TRA_1PNPDE20080829_000506_000000482071_00345_33966_2178.N1	29-AUG-2008 00:05:06	Twilight	47.500	44	24Gam Gem	1.9280	11000.	95	33966	No
3	GOM_TRA_1PNPDE20080829_000711_000000452071_00345_33966_2179.N1	29-AUG-2008 00:07:11	Twilight	44.500	8	10Alp CMI	0.40000	6500.0	89	33966	No
4	GOM_TRA_1PNPDE20080829_001439_000000462071_00345_33966_2290.N1	29-AUG-2008 00:14:39	Dark	46.000	1	9Alp CMa	-1.4400	11000.	92	33966	No
5	GOM_TRA_1PNPDE20080829_001600_000000402071_00345_33966_2291.N1	29-AUG-2008 00:16:00	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	33966	No
6	GOM_TRA_1PNPDE20080829_001729_000000442071_00345_33966_2292.N1	29-AUG-2008 00:17:29	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	33966	No
7	GOM_TRA_1PNPDE20080829_001908_000000422071_00345_33966_2293.N1	29-AUG-2008 00:19:08	Dark	41.500	117	Pi Pup	2.7060	3800.0	83	33966	No
8	GOM_TRA_1PNPDE20080829_002416_000000532071_00345_33966_2294.N1	29-AUG-2008 00:24:16	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	33966	No
9	GOM_TRA_1PNPDE20080829_003544_000000432071_00346_33967_2295.N1	29-AUG-2008 00:35:44	Dark	43.000	9	Alp Eri	0.45300	24000.	86	33967	No
10	GOM_TRA_1PNPDE20080829_004142_000000492071_00346_33967_2296.N1	29-AUG-2008 00:41:42	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	33967	No

11	GOM_TRA_1PNPDE20080829_004359_000000402071_00346_33967_2297.N1	29-AUG-2008 00:43:59	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	33967	No
12	GOM_TRA_1PNPDE20080829_004802_000000502071_00346_33967_2298.N1	29-AUG-2008 00:48:02	Straylight	50.000	18	24Alp PsA	1.1660	9700.0	100	33967	No
13	GOM_TRA_1PNPDE20080829_005258_000000502071_00346_33967_2299.N1	29-AUG-2008 00:52:58	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	33967	No
14	GOM_TRA_1PNPDE20080829_005609_000000382071_00346_33967_2300.N1	29-AUG-2008 00:56:09	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	33967	No
15	GOM_TRA_1PNPDE20080829_005741_000000402071_00346_33967_2301.N1	29-AUG-2008 00:57:41	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	33967	No
16	GOM_TRA_1PNPDE20080829_010042_000000402071_00346_33967_2302.N1	29-AUG-2008 01:00:42	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	33967	No
17	GOM_TRA_1PNPDE20080829_010730_000000382071_00346_33967_2303.N1	29-AUG-2008 01:07:30	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	33967	No
18	GOM_TRA_1PNPDE20080829_010920_000000362071_00346_33967_2304.N1	29-AUG-2008 01:09:20	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	33967	No
19	GOM_TRA_1PNPDE20080829_011041_000000372071_00346_33967_2305.N1	29-AUG-2008 01:10:41	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	33967	No
20	GOM_TRA_1PNPDE20080829_011544_000000372071_00346_33967_2306.N1	29-AUG-2008 01:15:44	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	33967	No
21	GOM_TRA_1PNPDE20080829_012319_000000362071_00346_33967_2307.N1	29-AUG-2008 01:23:19	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33967	No
22	GOM_TRA_1PNPDE20080829_014011_000000372071_00346_33967_2308.N1	29-AUG-2008 01:40:11	Bright	36.500	24	66Alp Gem	1.5800	10200.	73	33967	No
23	GOM_TRA_1PNPDE20080829_014247_000000462071_00346_33967_2309.N1	29-AUG-2008 01:42:47	Bright	45.500	170	27Eps Gem	3.0000	9700.0	91	33967	No
24	GOM_TRA_1PNPDE20080829_014542_000000482071_00346_33967_2310.N1	29-AUG-2008 01:45:42	Twilight	47.500	44	24Gam Gem	1.9280	11000.	95	33967	No
25	GOM_TRA_1PNPDE20080829_014747_000000512071_00346_33967_2311.N1	29-AUG-2008 01:47:47	Twilight	51.000	8	10Alp CMi	0.40000	6500.0	102	33967	No
26	GOM_TRA_1PNPDE20080829_015516_000000502071_00346_33967_2433.N1	29-AUG-2008 01:55:16	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	33967	No
27	GOM_TRA_1PNPDE20080829_015637_000000392071_00346_33967_2434.N1	29-AUG-2008 01:56:37	Dark	39.000	179	24Omi2CMa	3.0320	24000.	78	33967	No
28	GOM_TRA_1PNPDE20080829_015805_000000412071_00346_33967_2435.N1	29-AUG-2008 01:58:05	Dark	40.500	23	21Eps CMa	1.5020	26000.	81	33967	No
29	GOM_TRA_1PNPDE20080829_015944_000000412071_00346_33967_2436.N1	29-AUG-2008 01:59:44	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	33967	No
30	GOM_TRA_1PNPDE20080829_020452_000000442071_00346_33967_2437.N1	29-AUG-2008 02:04:52	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	33967	No
31	GOM_TRA_1PNPDE20080829_021621_000000452071_00347_33968_2438.N1	29-AUG-2008 02:16:21	Dark	45.000	9	Alp Eri	0.45300	24000.	90	33968	No
32	GOM_TRA_1PNPDE20080829_022219_000000502071_00347_33968_2439.N1	29-AUG-2008 02:22:19	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	33968	No
33	GOM_TRA_1PNPDE20080829_022435_000000412071_00347_33968_2440.N1	29-AUG-2008 02:24:35	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	33968	No
34	GOM_TRA_1PNPDE20080829_022839_000000462071_00347_33968_2441.N1	29-AUG-2008 02:28:39	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	33968	No
35	GOM_TRA_1PNPDE20080829_023334_000000462071_00347_33968_2442.N1	29-AUG-2008 02:33:34	Bright	46.000	142	49Del Cap	2.8500	8900.0	92	33968	No
36	GOM_TRA_1PNPDE20080829_023644_000000392071_00347_33968_2443.N1	29-AUG-2008 02:36:44	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	33968	No
37	GOM_TRA_1PNPDE20080829_023817_000000412071_00347_33968_2444.N1	29-AUG-2008 02:38:17	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	33968	No
38	GOM_TRA_1PNPDE20080829_024118_000000402071_00347_33968_2445.N1	29-AUG-2008 02:41:18	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	33968	No
39	GOM_TRA_1PNPDE20080829_024806_000000372071_00347_33968_2446.N1	29-AUG-2008 02:48:06	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	33968	No
40	GOM_TRA_1PNPDE20080829_024956_000000342071_00347_33968_2447.N1	29-AUG-2008 02:49:56	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	33968	No
41	GOM_TRA_1PNPDE20080829_025117_000000332071_00347_33968_2448.N1	29-AUG-2008 02:51:17	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	33968	No
42	GOM_TRA_1PNPDE20080829_025620_000000342071_00347_33968_2449.N1	29-AUG-2008 02:56:20	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	33968	No
43	GOM_TRA_1PNPDE20080829_030355_000000362071_00347_33968_2450.N1	29-AUG-2008 03:03:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33968	No
44	GOM_TRA_1PNPDE20080829_032047_000000372071_00347_33968_2599.N1	29-AUG-2008 03:20:47	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	33968	No
45	GOM_TRA_1PNPDE20080829_032323_000000462071_00347_33968_2600.N1	29-AUG-2008 03:23:23	Bright	46.000	170	27Eps Gem	3.0000	9700.0	92	33968	No
46	GOM_TRA_1PNPDE20080829_032618_000000452071_00347_33968_2601.N1	29-AUG-2008 03:26:18	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	33968	No
47	GOM_TRA_1PNPDE20080829_032824_000000462071_00347_33968_2602.N1	29-AUG-2008 03:28:24	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	33968	No
48	GOM_TRA_1PNPDE20080829_033552_000000572071_00347_33968_2603.N1	29-AUG-2008 03:35:52	Dark	56.500	1	9Alp CMa	-1.4400	11000.	113	33968	No
49	GOM_TRA_1PNPDE20080829_033841_000000442071_00347_33968_2604.N1	29-AUG-2008 03:38:41	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	33968	No
50	GOM_TRA_1PNPDE20080829_034021_000000442071_00347_33968_2605.N1	29-AUG-2008 03:40:21	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	33968	No

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



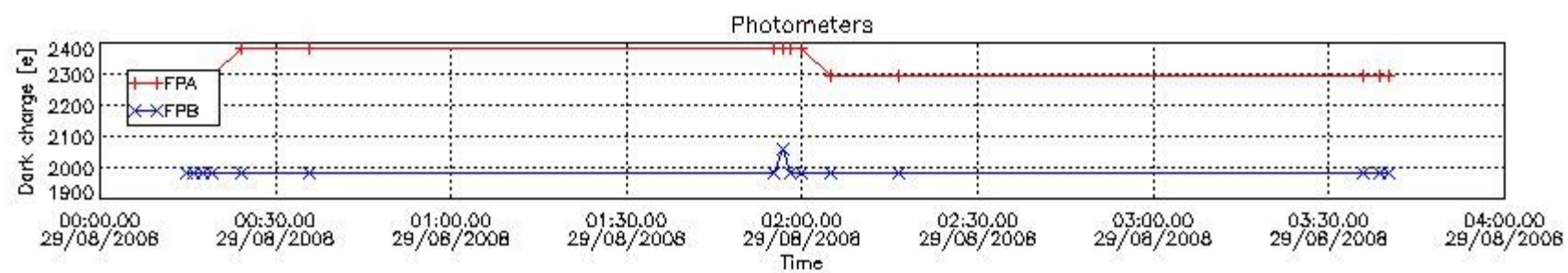
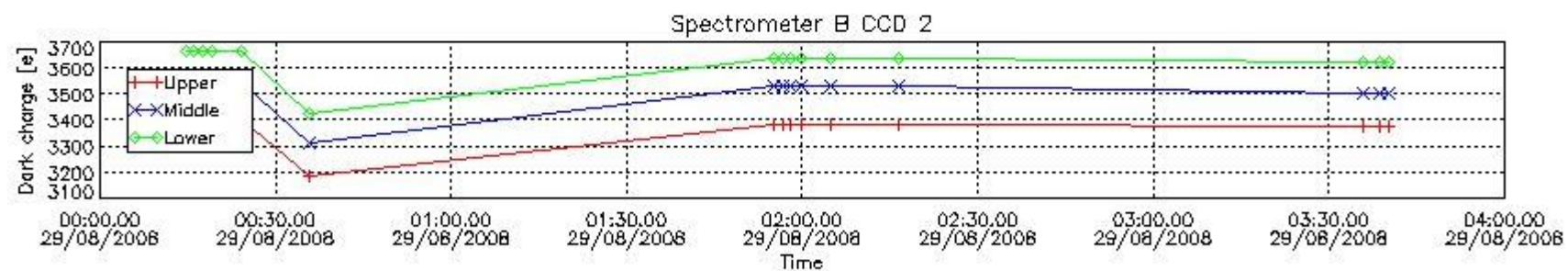
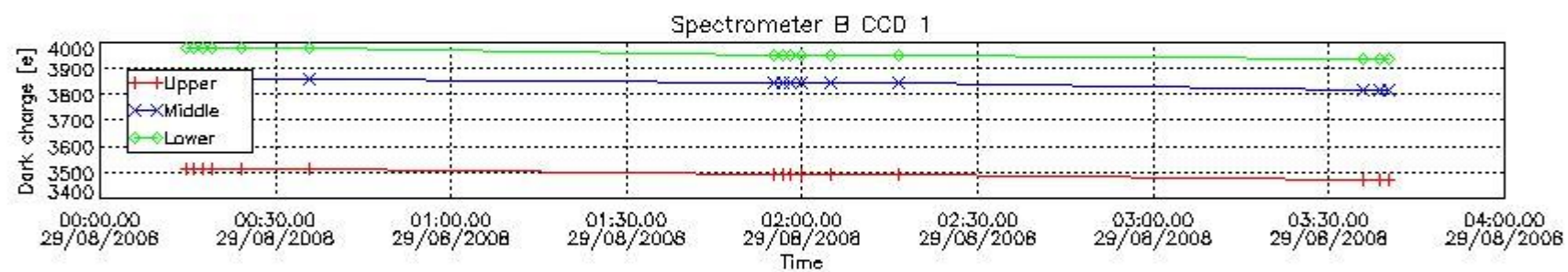
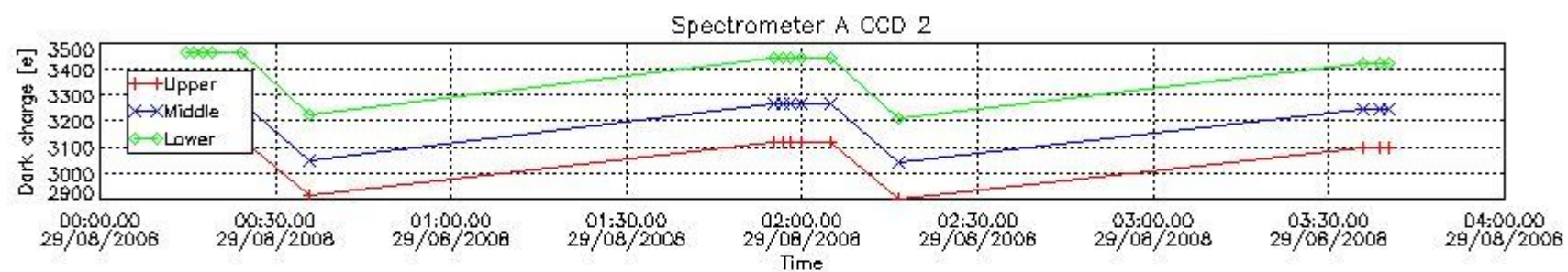
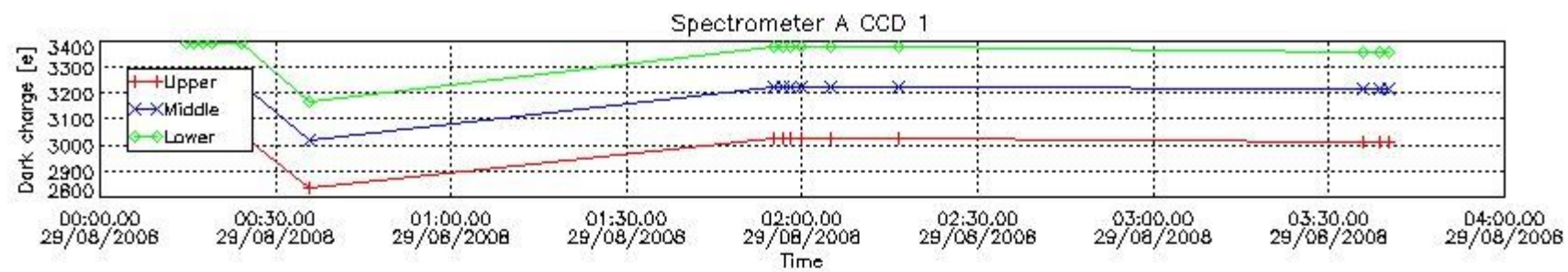
4. Overview of dark signal processing per product

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



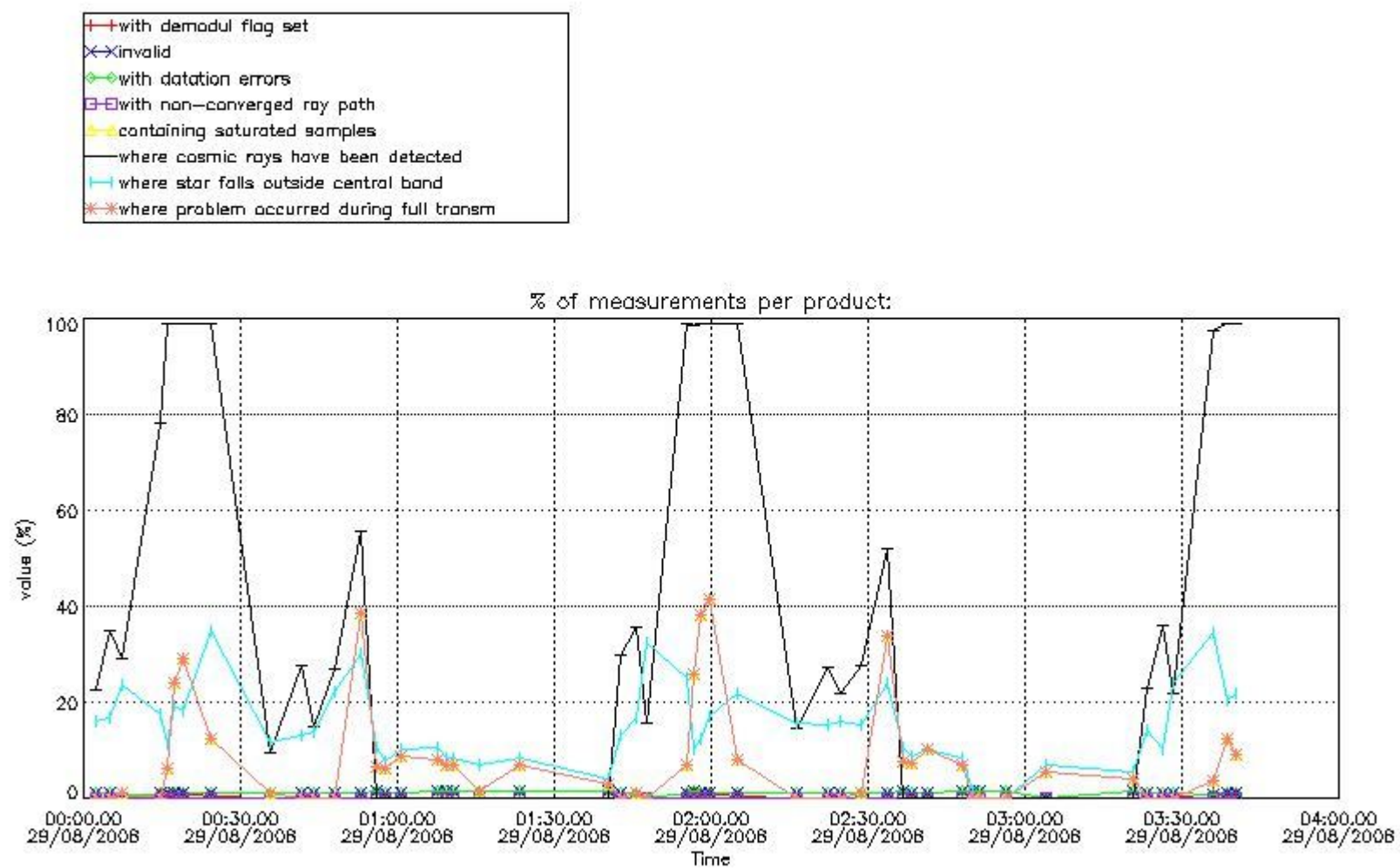
5. Demodulation flag and quality information monitoring

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.

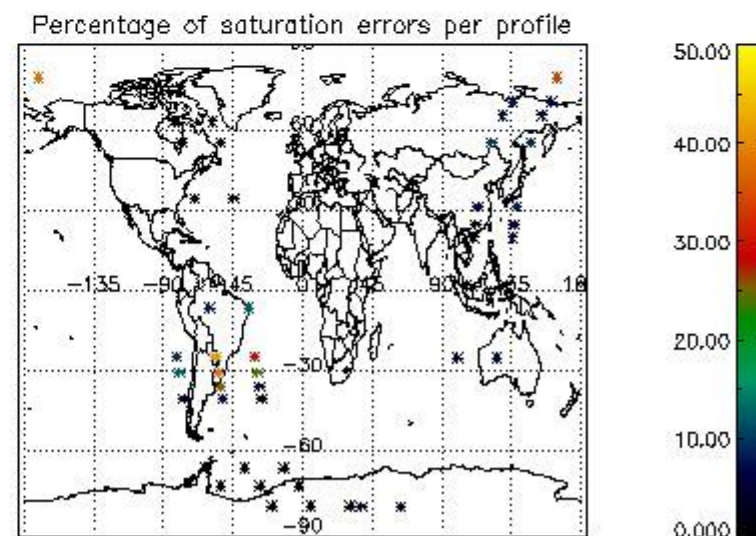
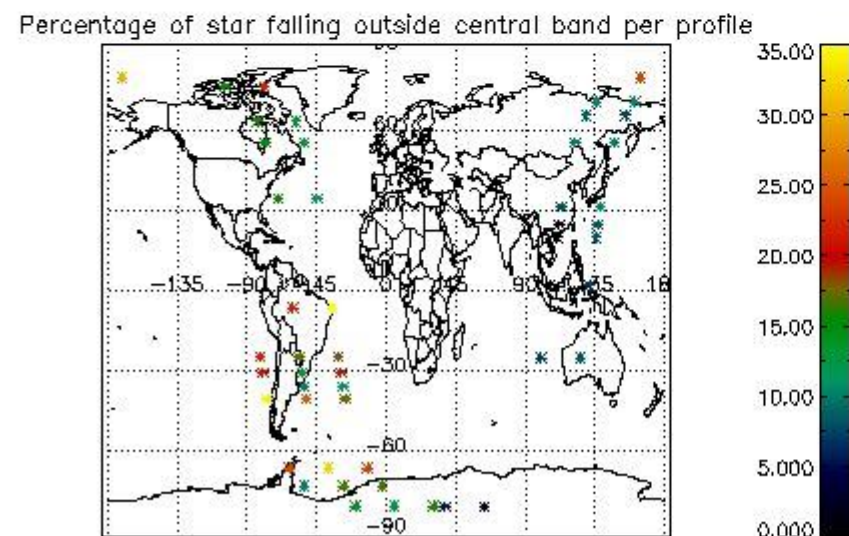
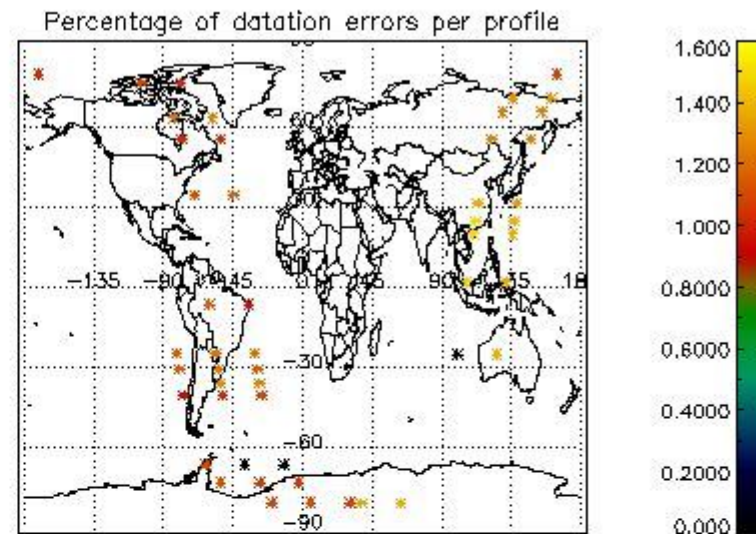
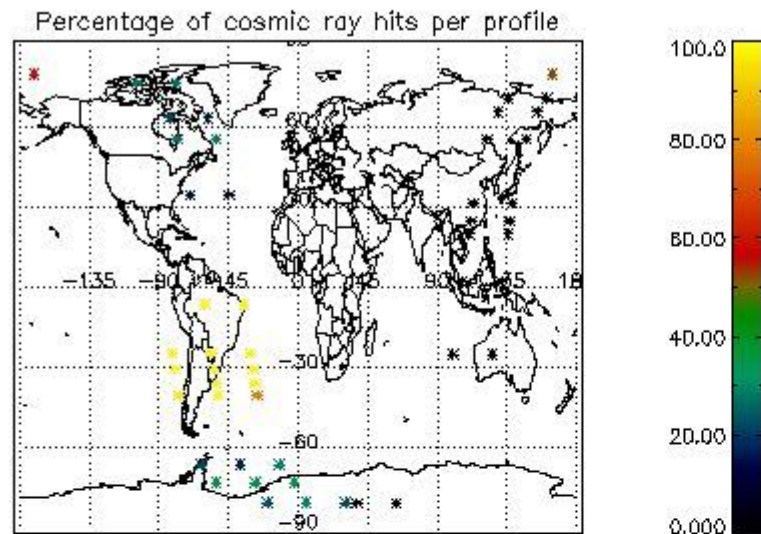
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.0000 %
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)



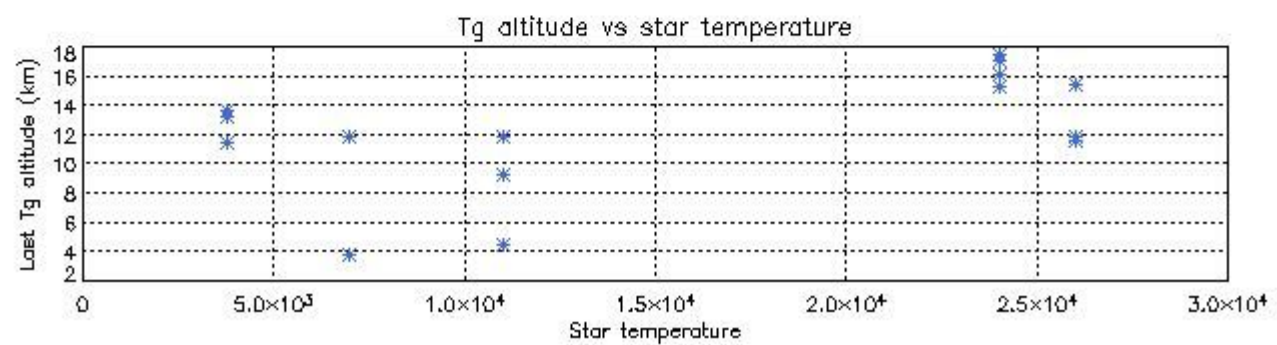
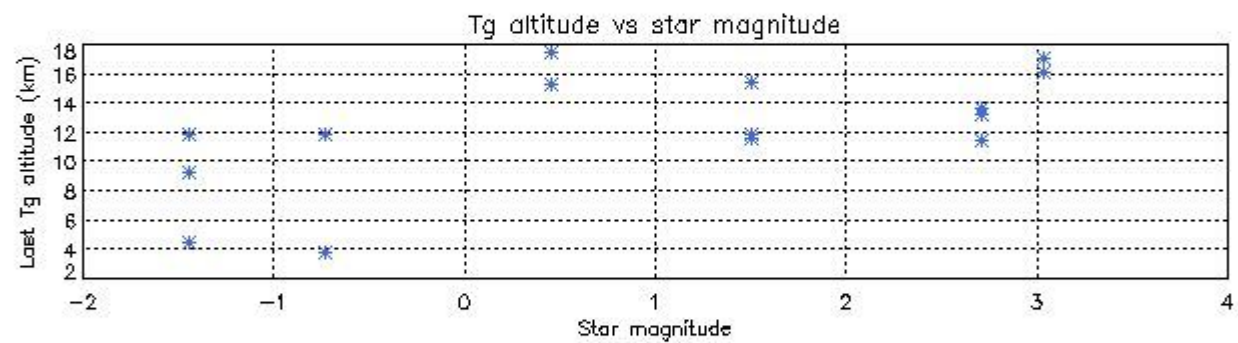
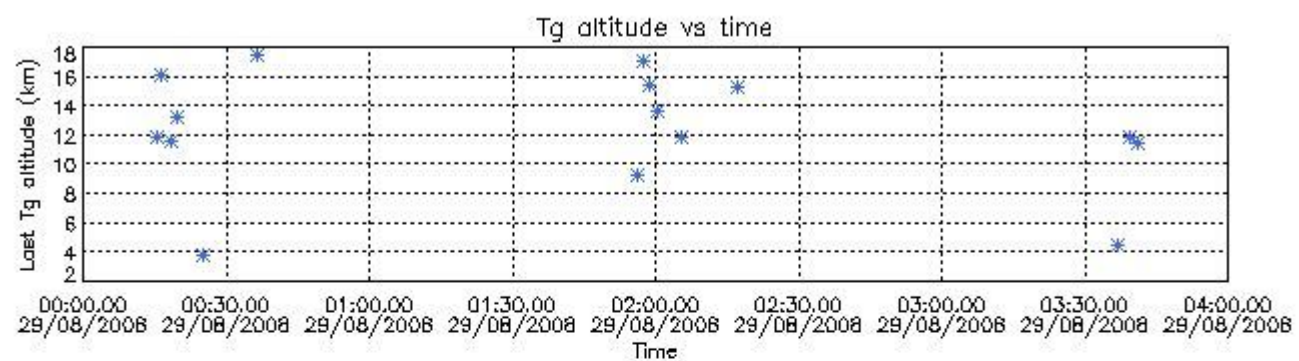
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.260	18.639	8.8346
St. deviation:	4.0597	4.6842	2.2712
Maximum:	17.498	27.223	10.429
Minimum:	3.7468	6.9971	6.2340
Number of data:	15.000	23.000	3.0000

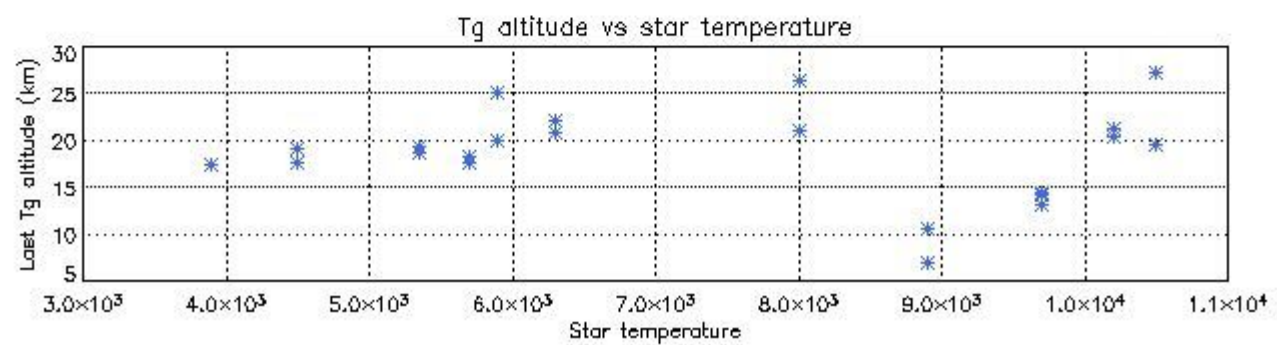
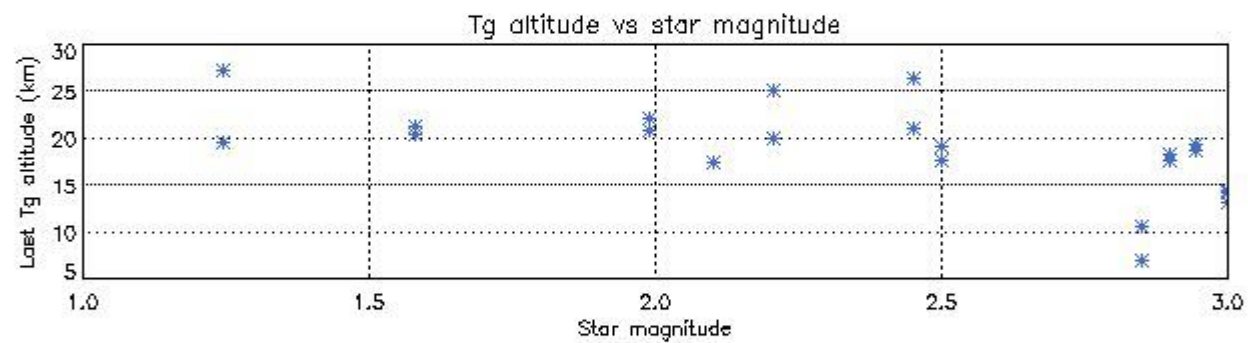
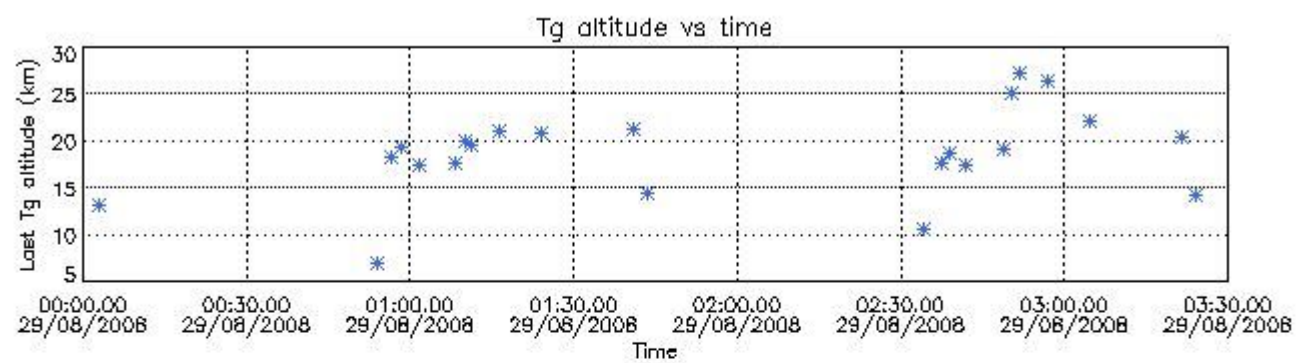
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



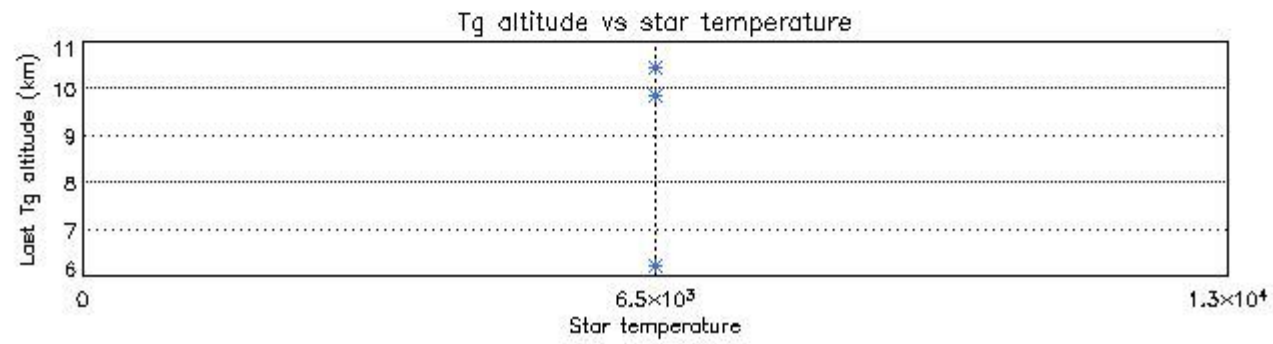
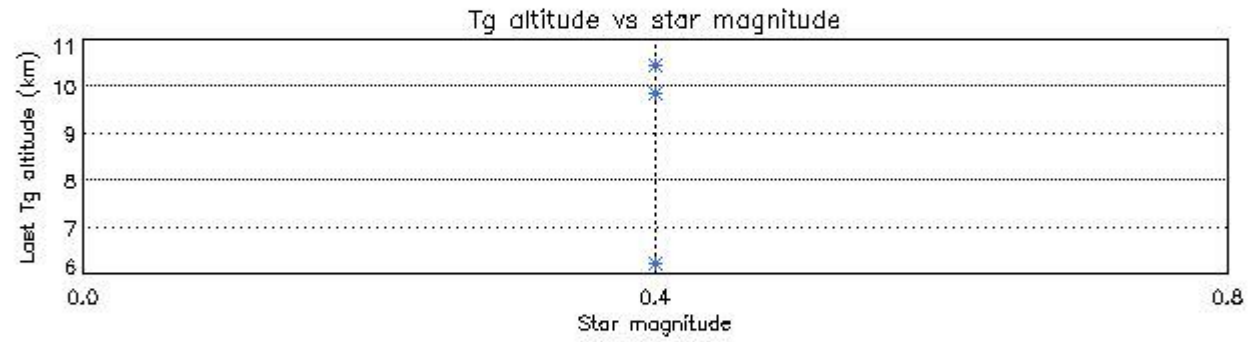
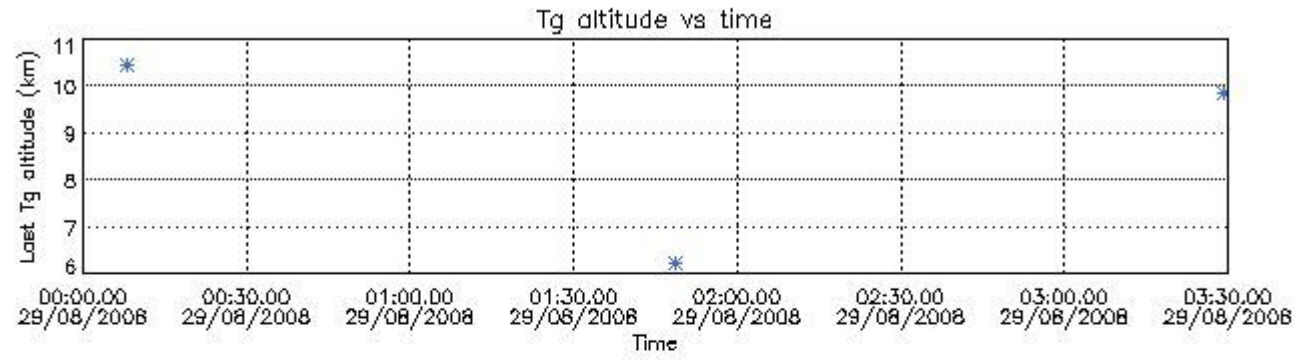
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

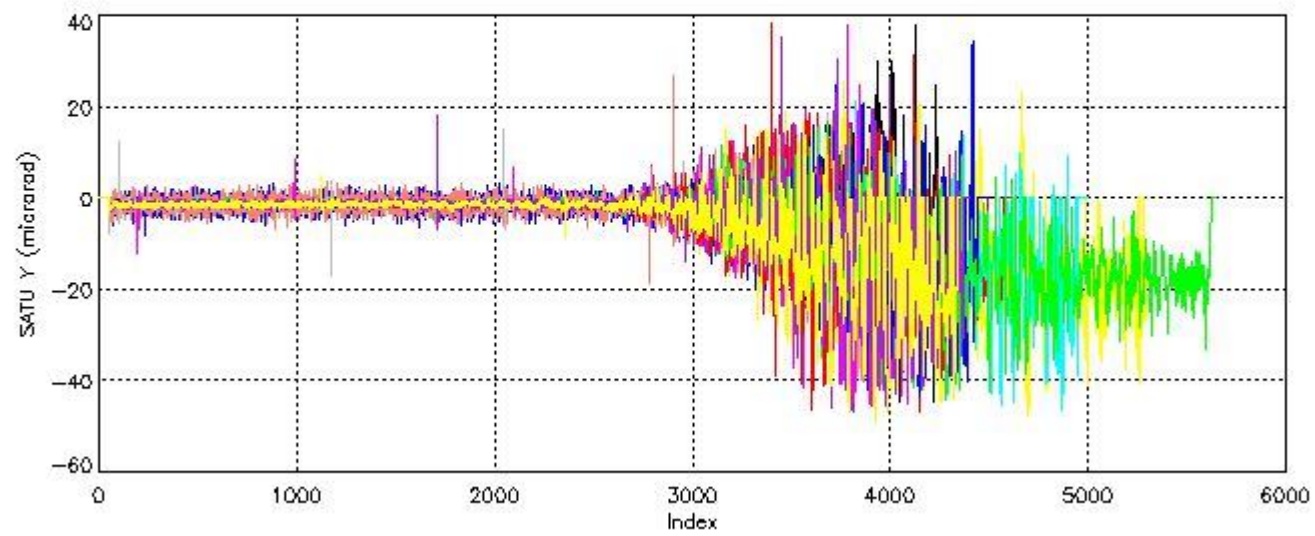
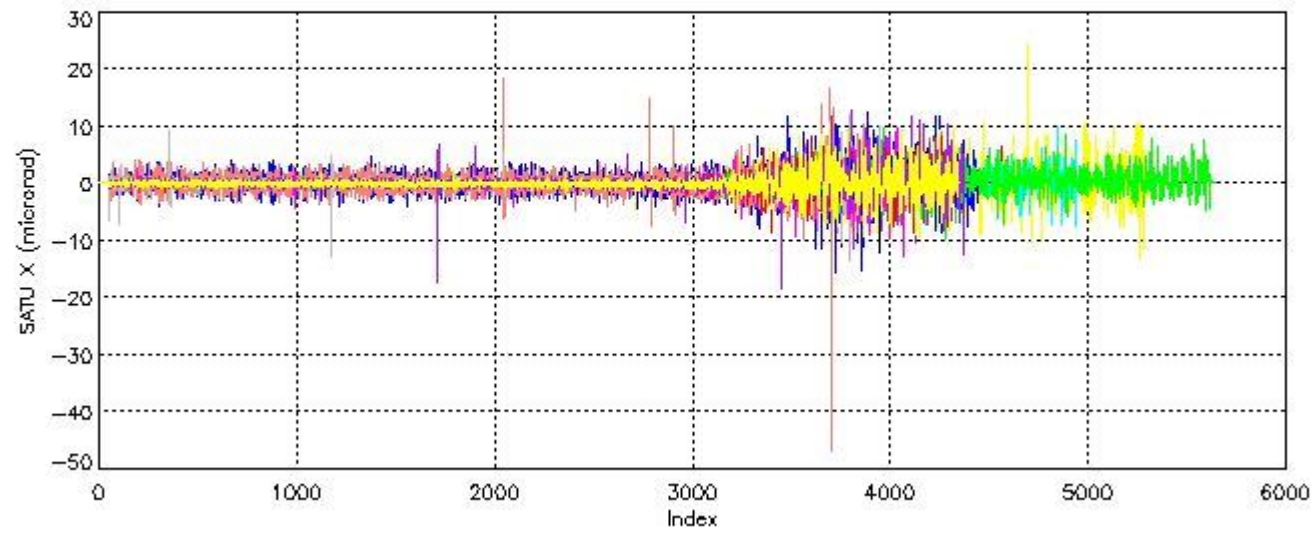


7. Star Acquisition and Tracking Unit (SATU)

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:	0.089650	-1.3655	0.11917	-1.2975
St. deviation:	0.41333	0.65212	0.60834	0.75980
Maximum:	9.4000	12.400	3.4000	2.6000
Minimum:	-7.3000	-12.200	-3.1000	-5.4000

Number of data:	13500.	13500.	19500.	19500.
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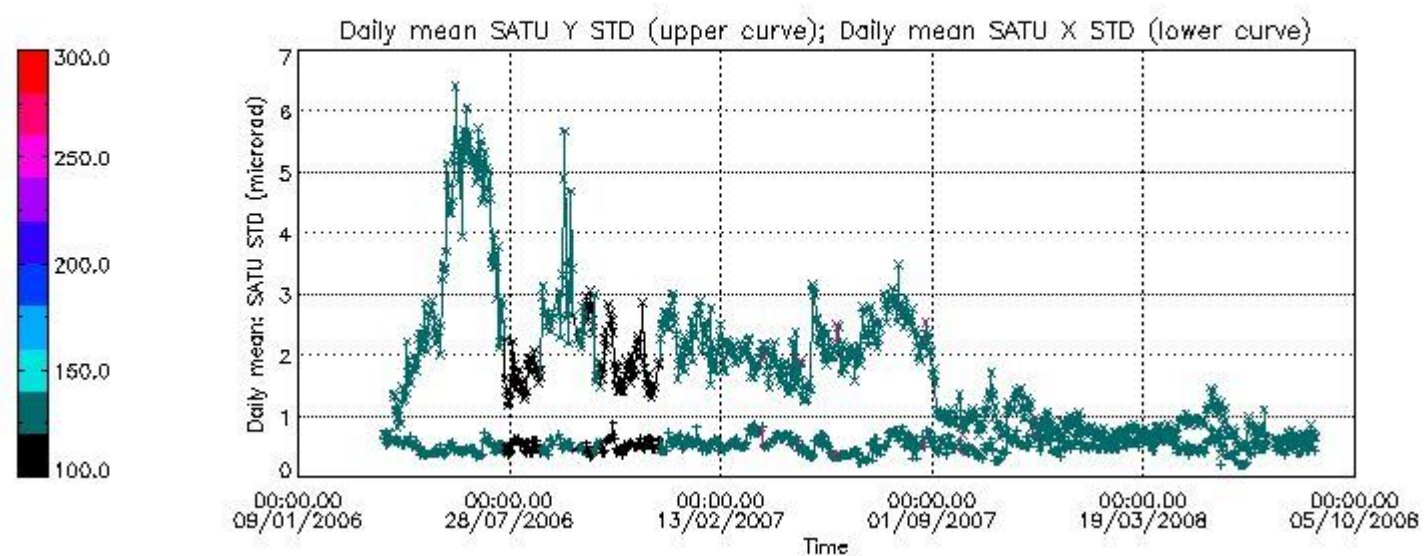
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

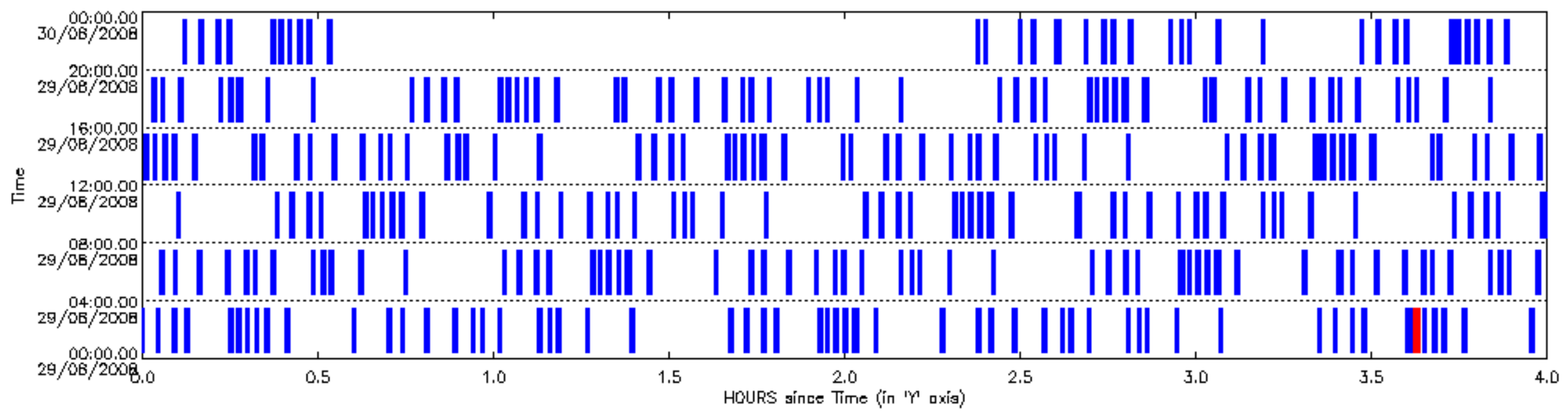
Lower curve: STD of SATU X axis

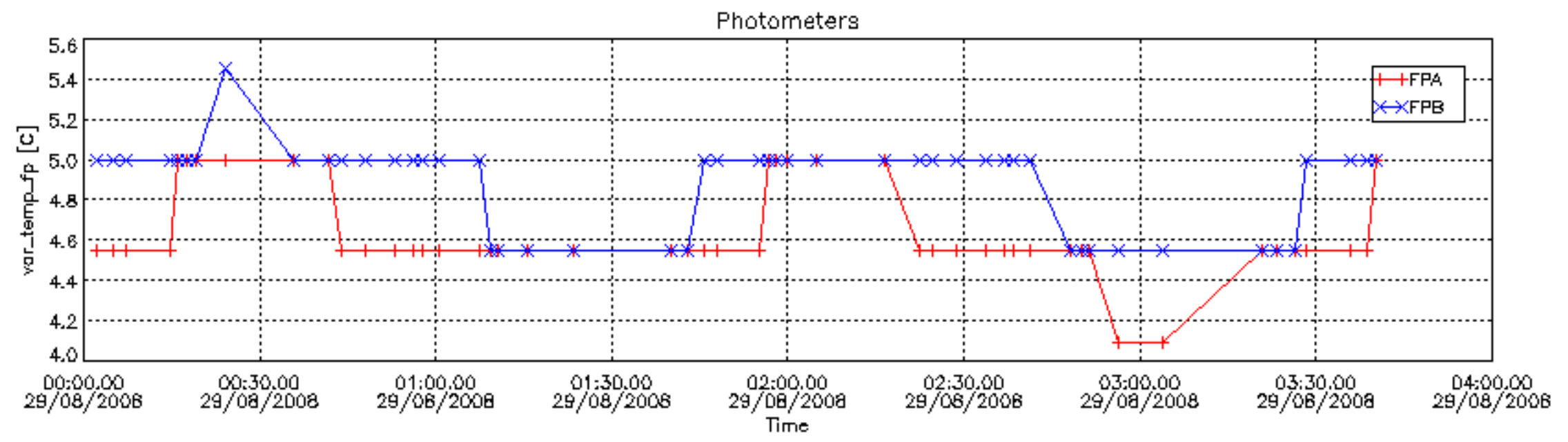
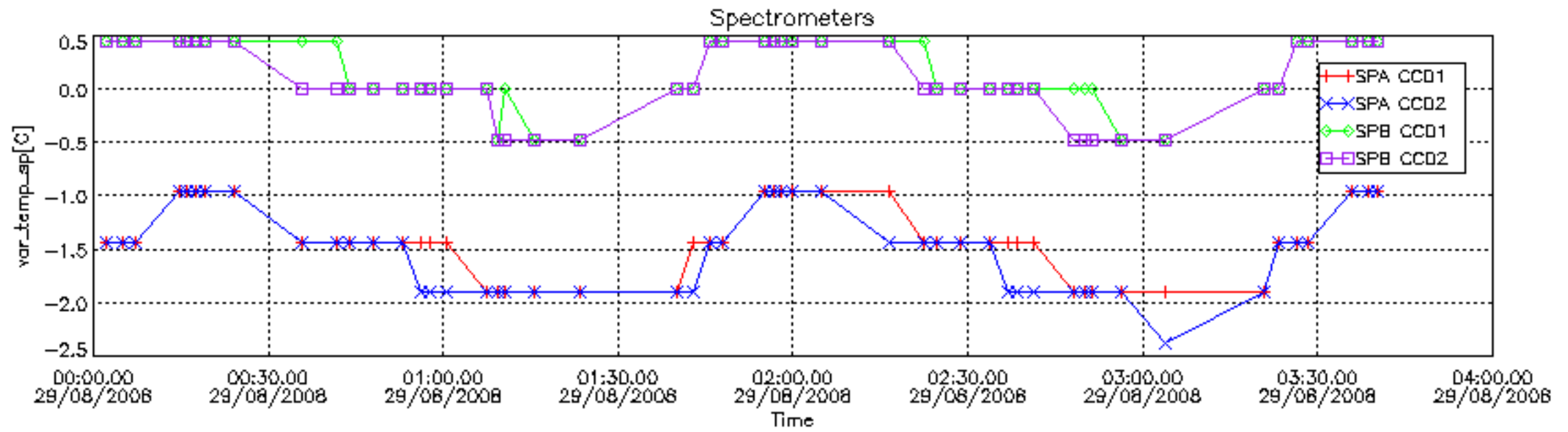


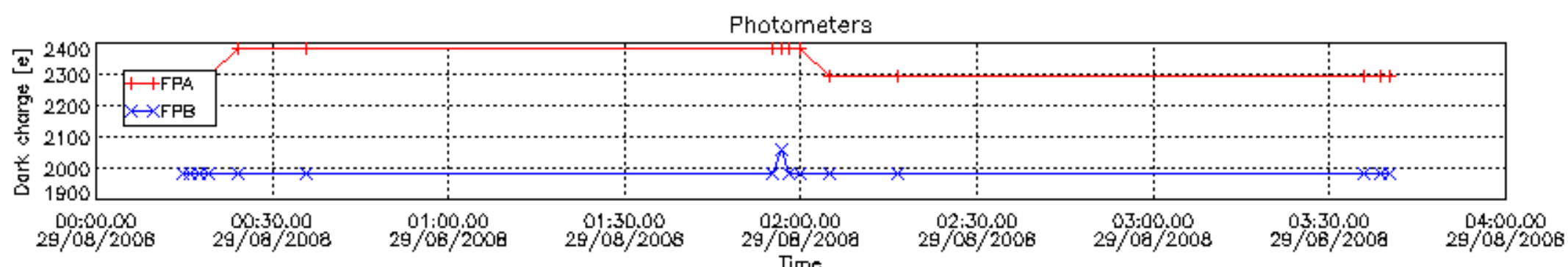
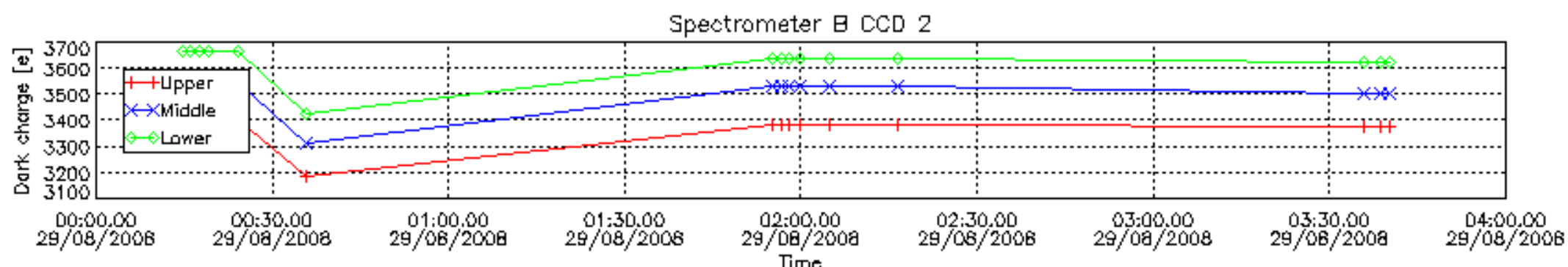
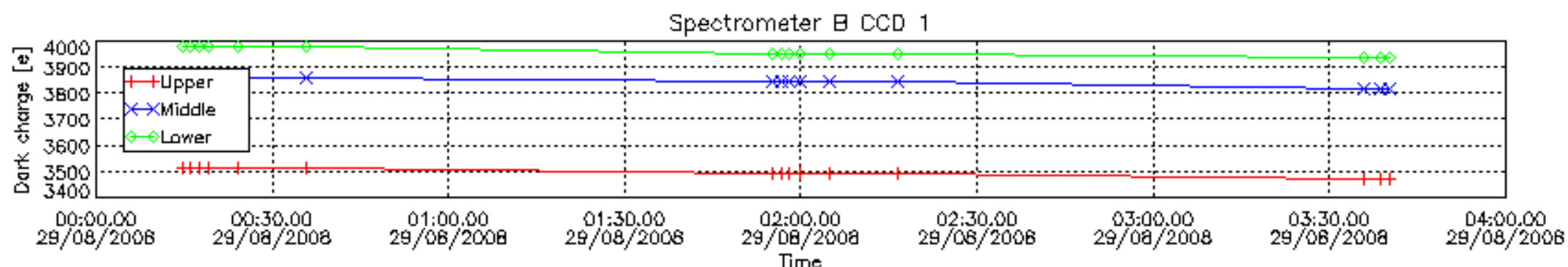
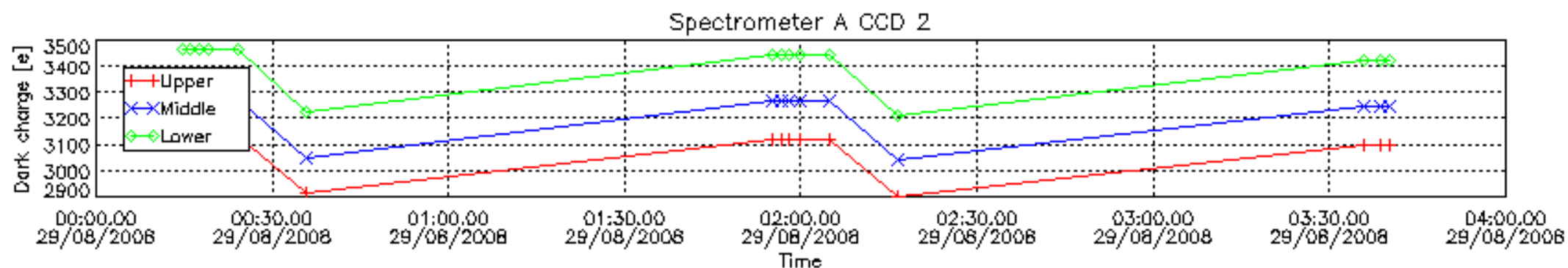
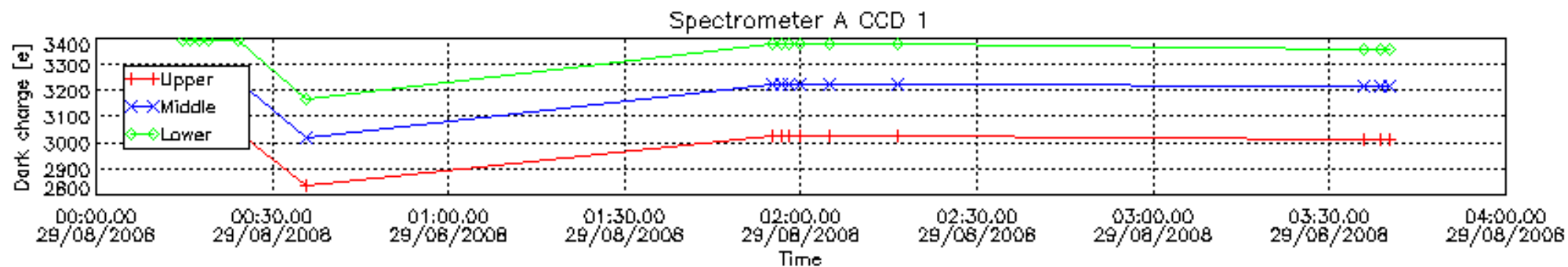
8. Auxiliary Data Files used for the production reported in section 2.4

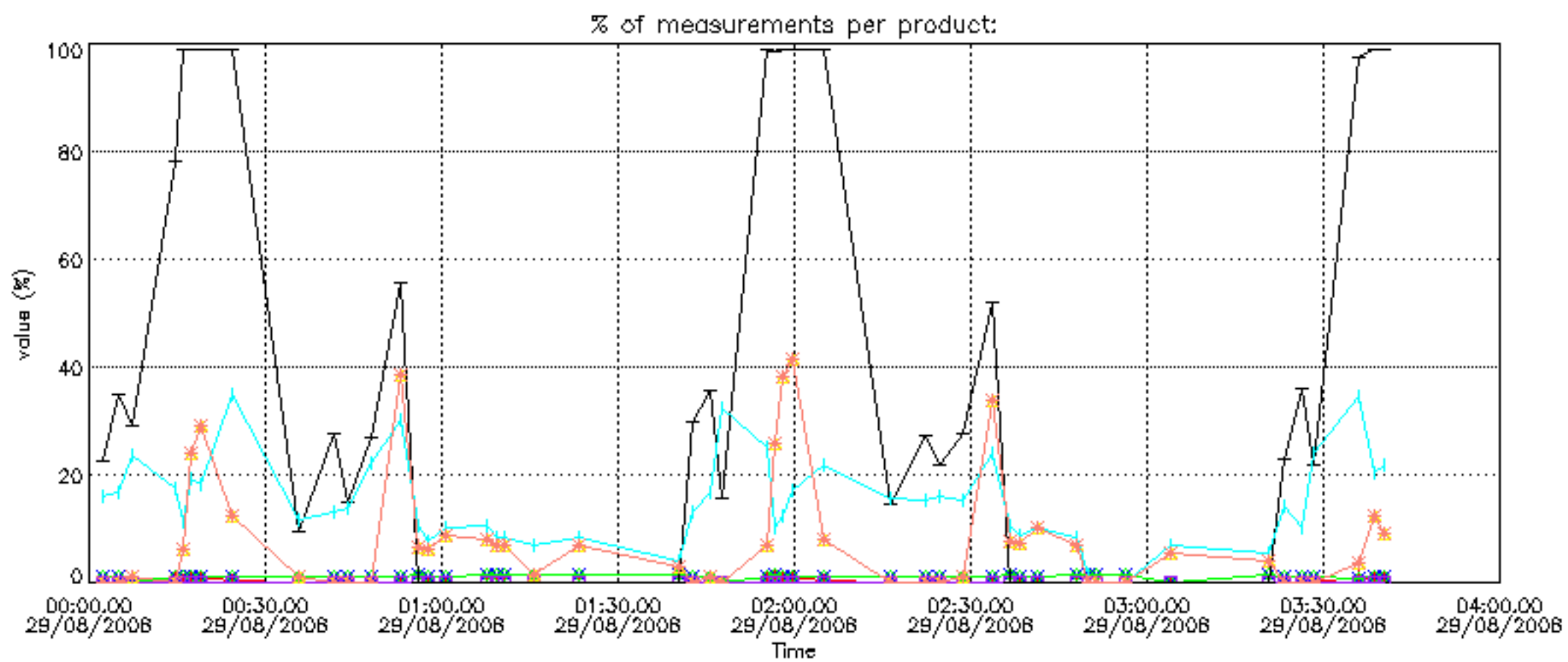
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-AUG-2008 00:02:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080827_075127_20080825_000000_20100101_000000	1	29-AUG-2008 00:02:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-AUG-2008 00:02:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-AUG-2008 00:02:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-AUG-2008 00:02:11
ECMWF_FILE	AUX_ECF_AXNECM20080828_072112_20080828_210000_20080829_090000	1	29-AUG-2008 00:02:11
ECMWF_FILE	AUX_ECF_AXNECM20080828_190115_20080829_030000_20080829_150000	44	29-AUG-2008 03:20:47
OPTIONAL_ECMWF_FILE	MISSING	1	29-AUG-2008 00:02:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080828_204240_000063762071_00343_33964_6249.N1	1	29-AUG-2008 00:02:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080828_223415_000054192071_00344_33965_6250.N1	4	29-AUG-2008 00:14:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080829_015050_000044632071_00346_33967_6252.N1	26	29-AUG-2008 01:55:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080829_031032_000054192071_00347_33968_6253.N1	44	29-AUG-2008 03:20:47

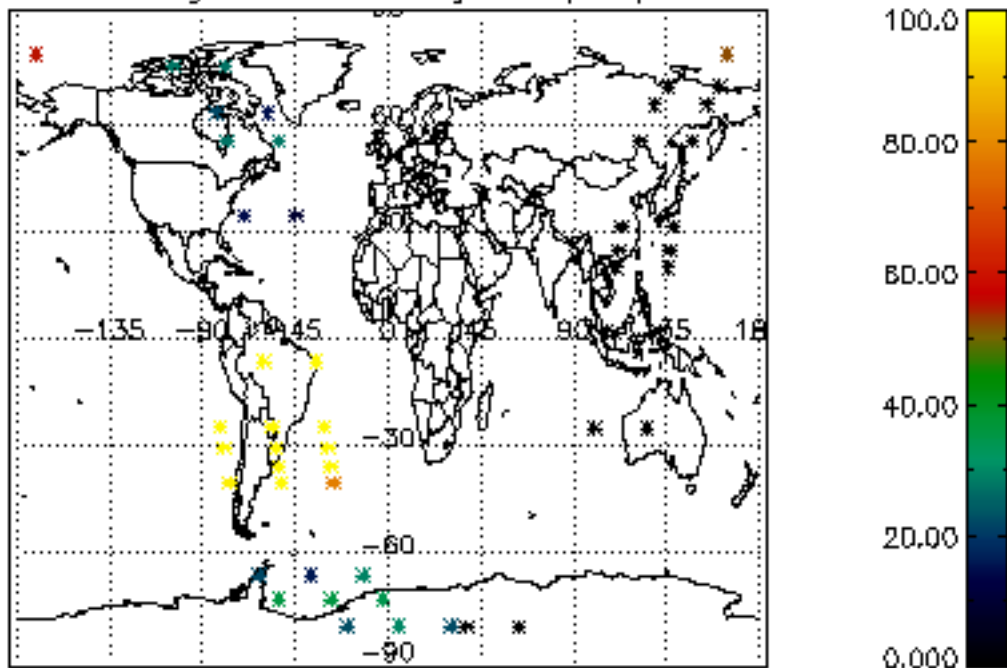




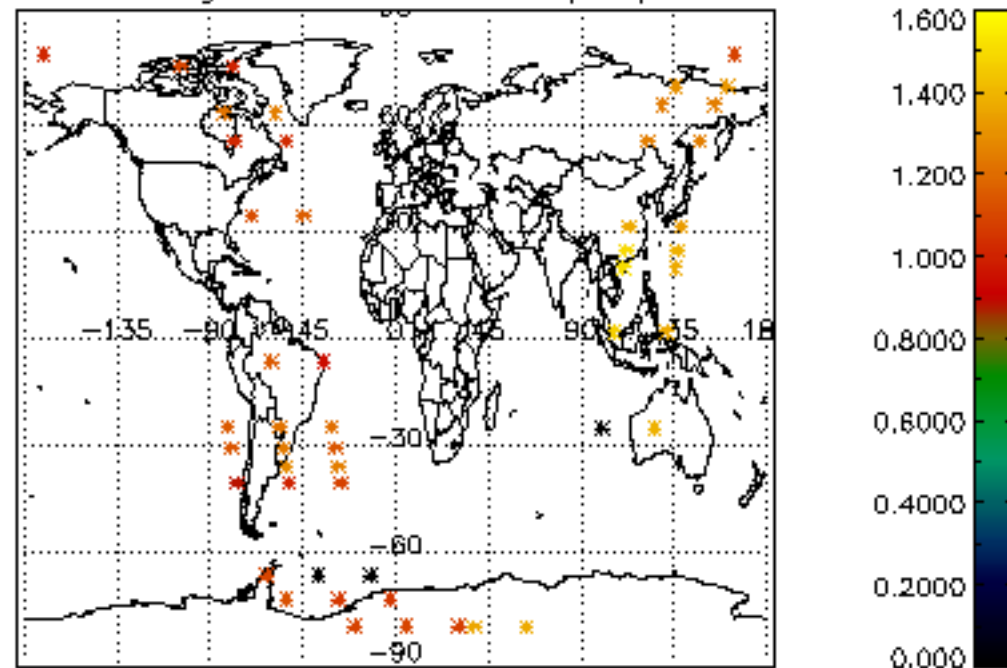




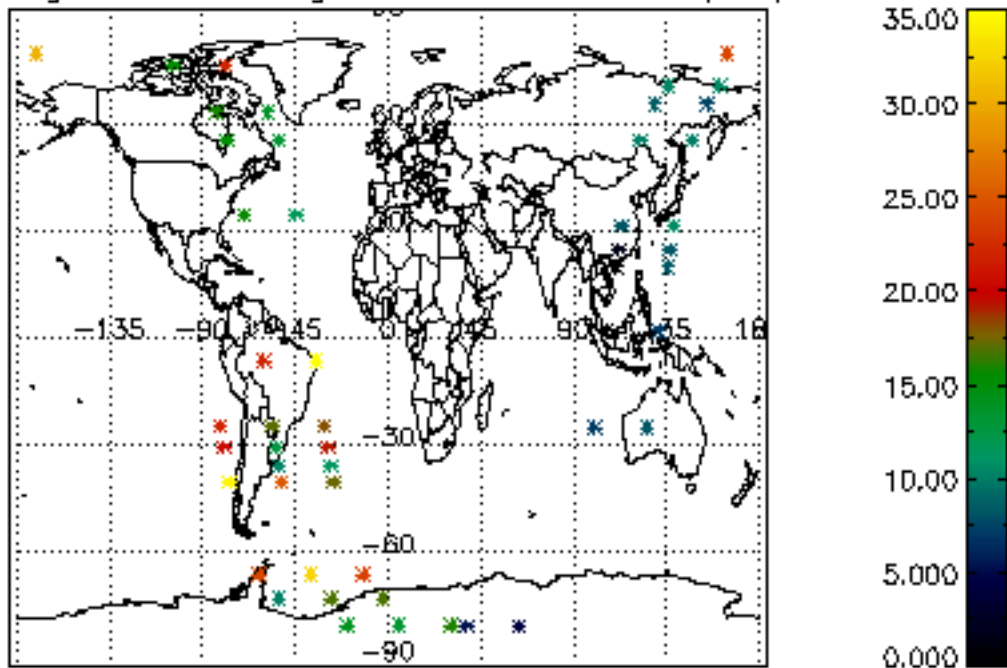
Percentage of cosmic ray hits per profile



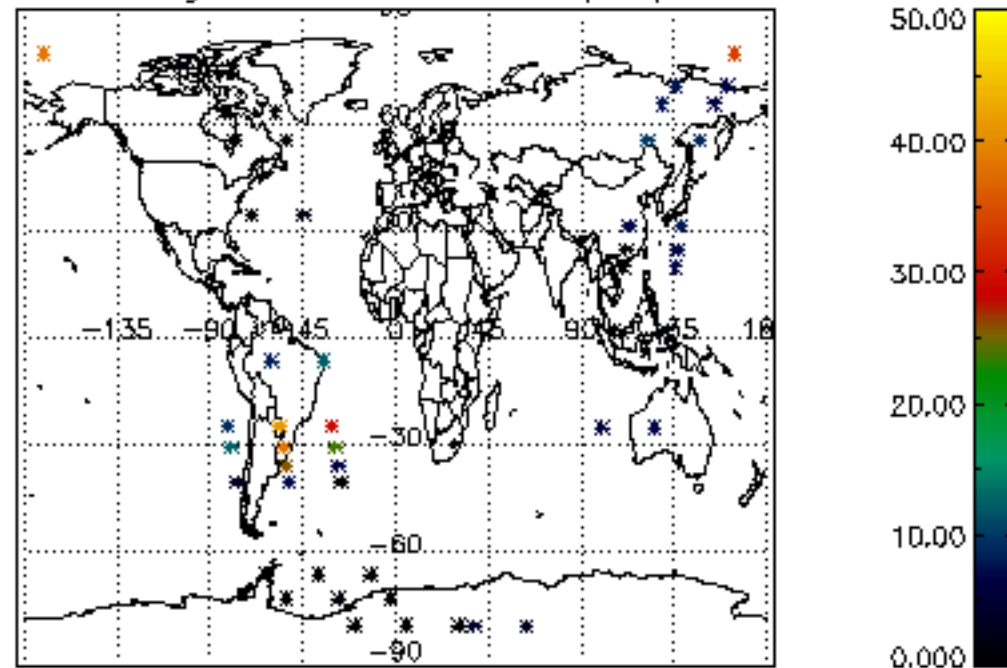
Percentage of datation errors per profile



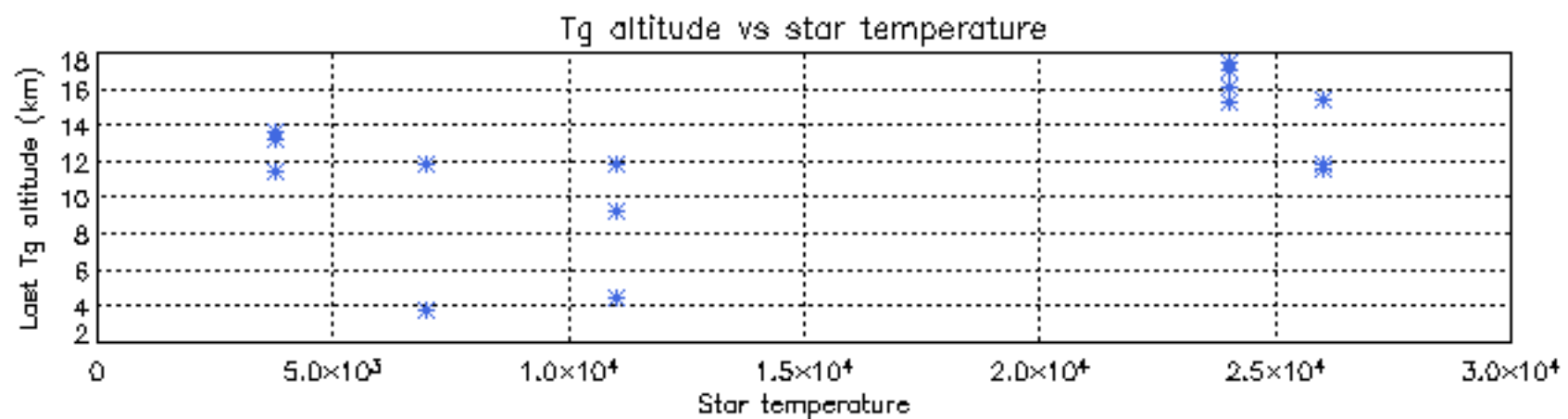
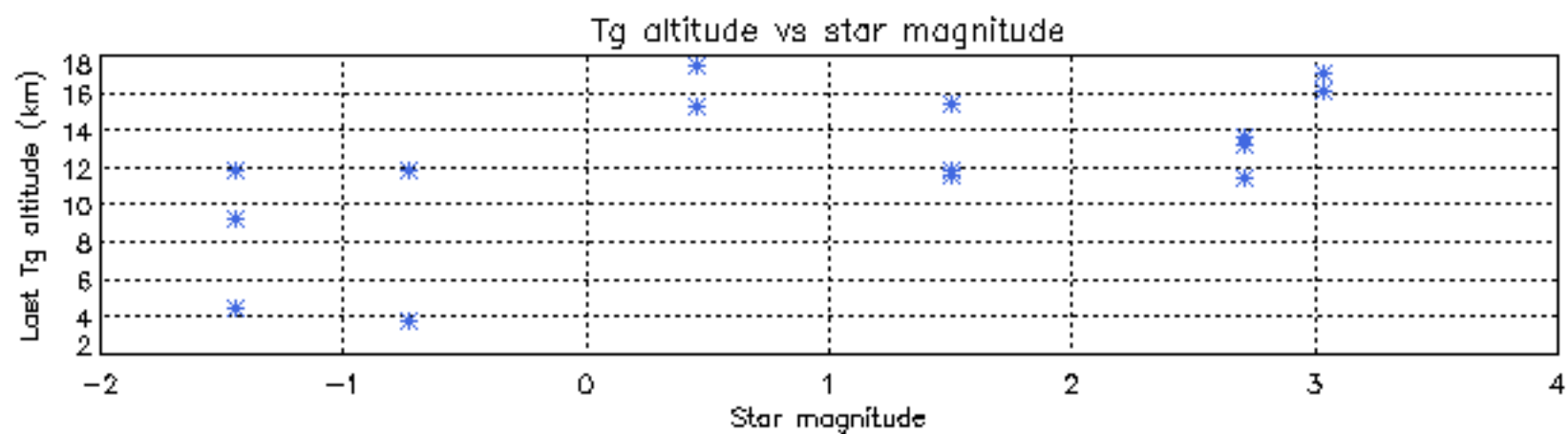
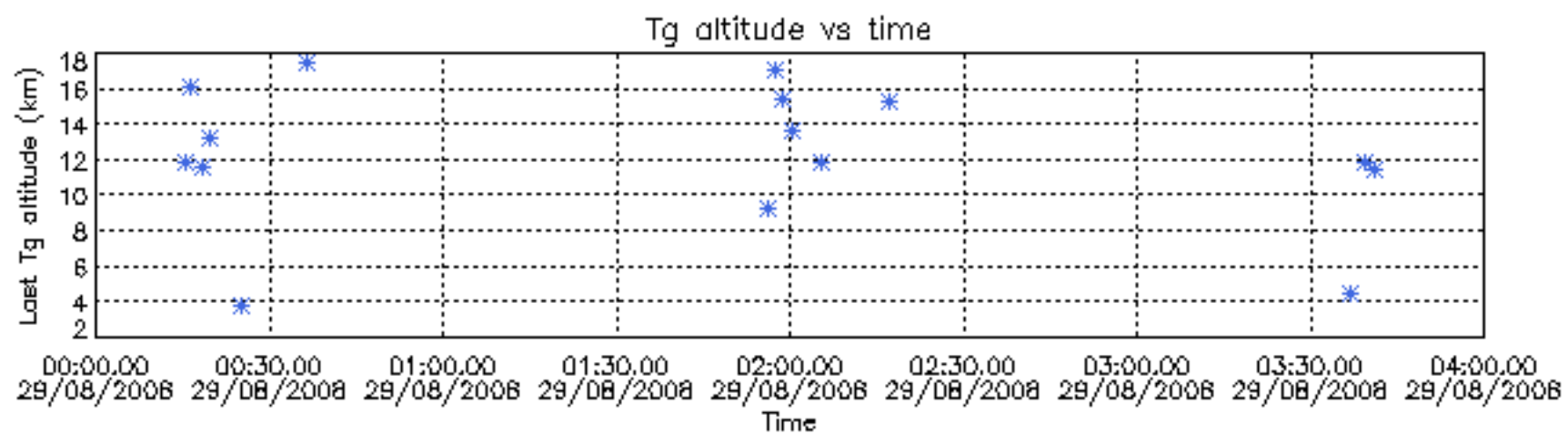
Percentage of star falling outside central band per profile



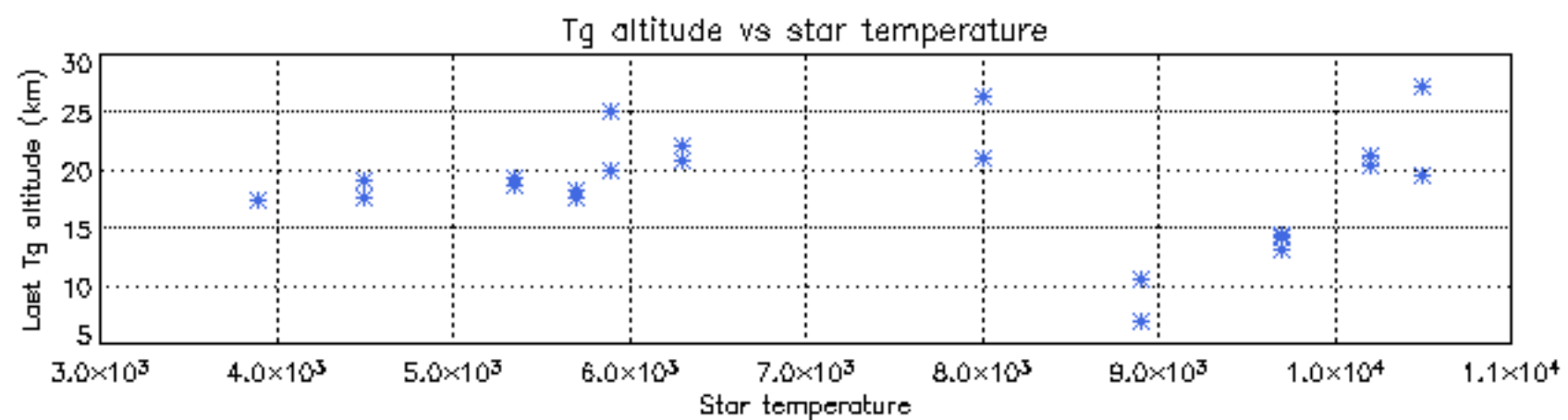
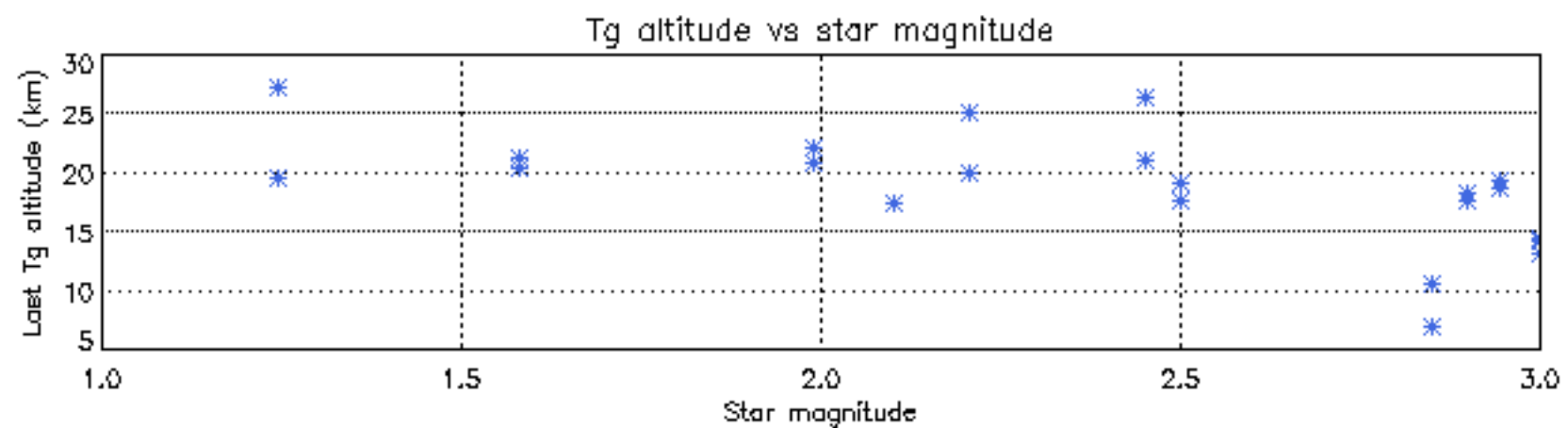
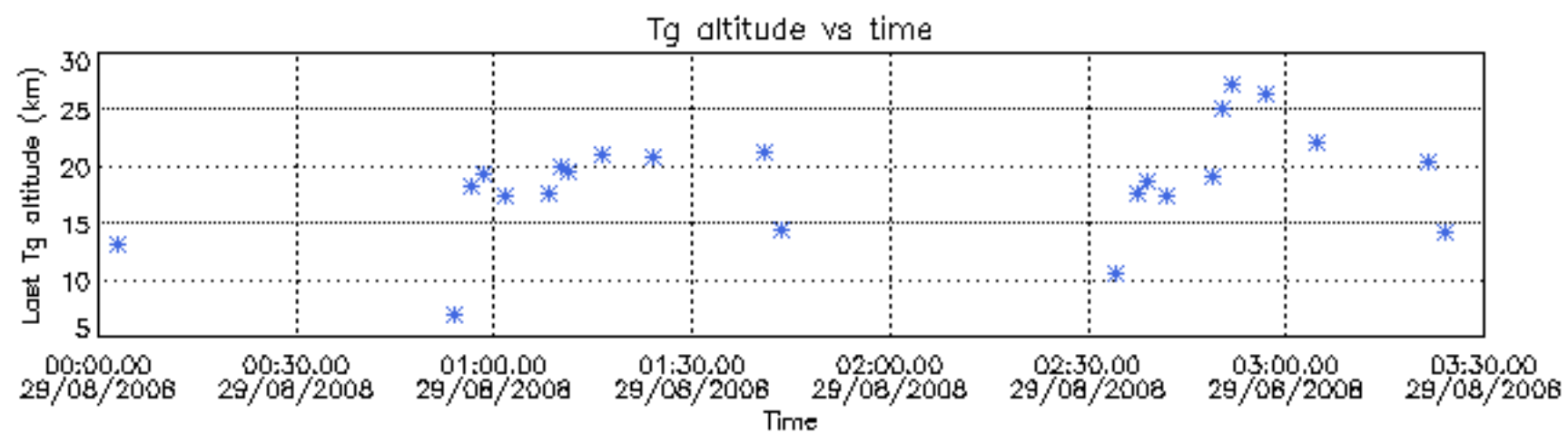
Percentage of saturation errors per profile



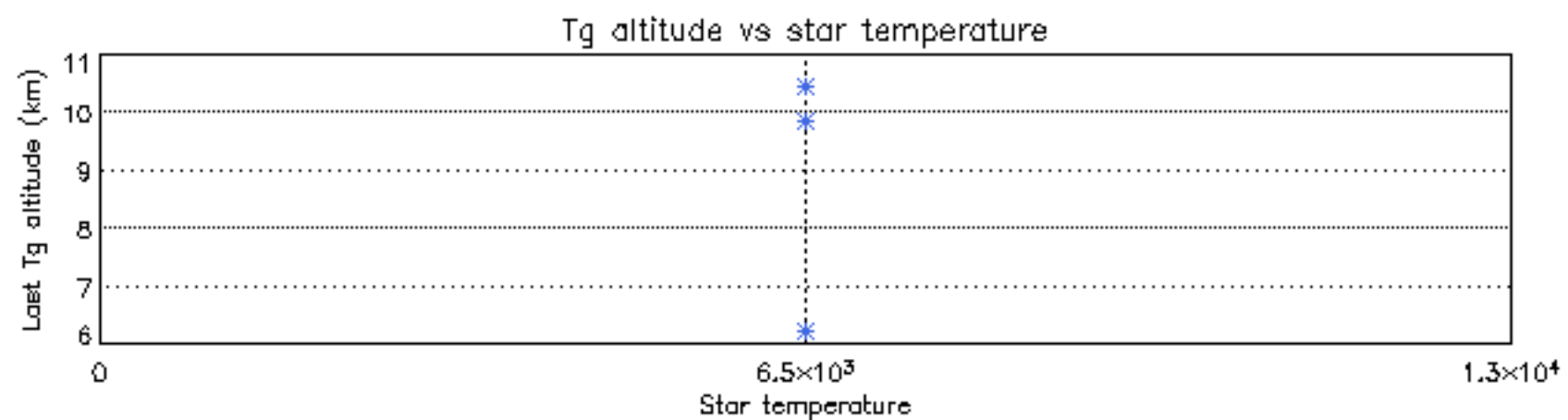
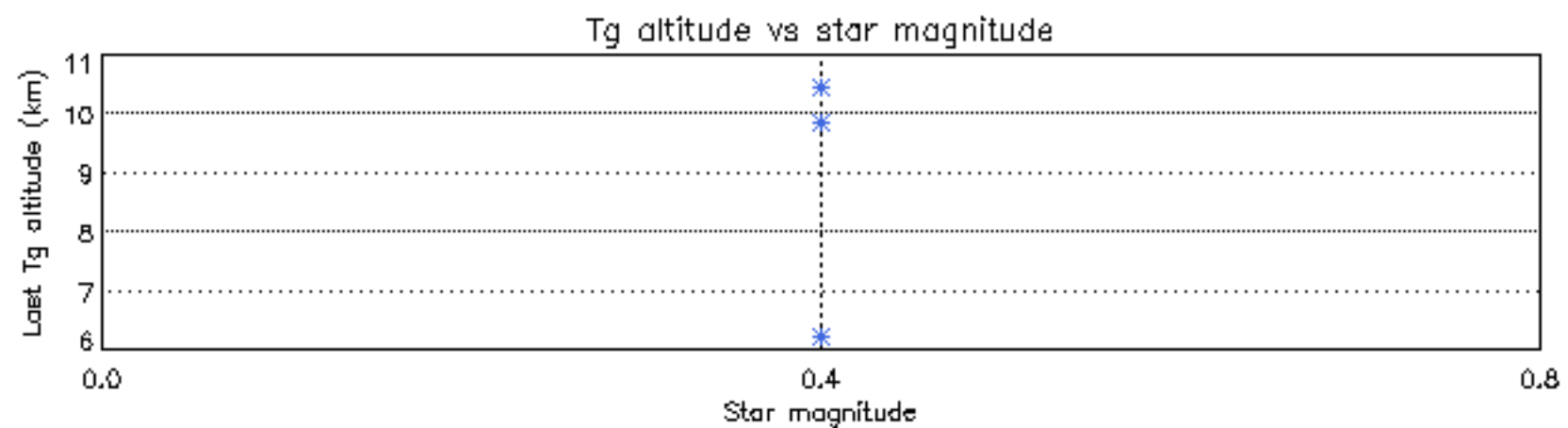
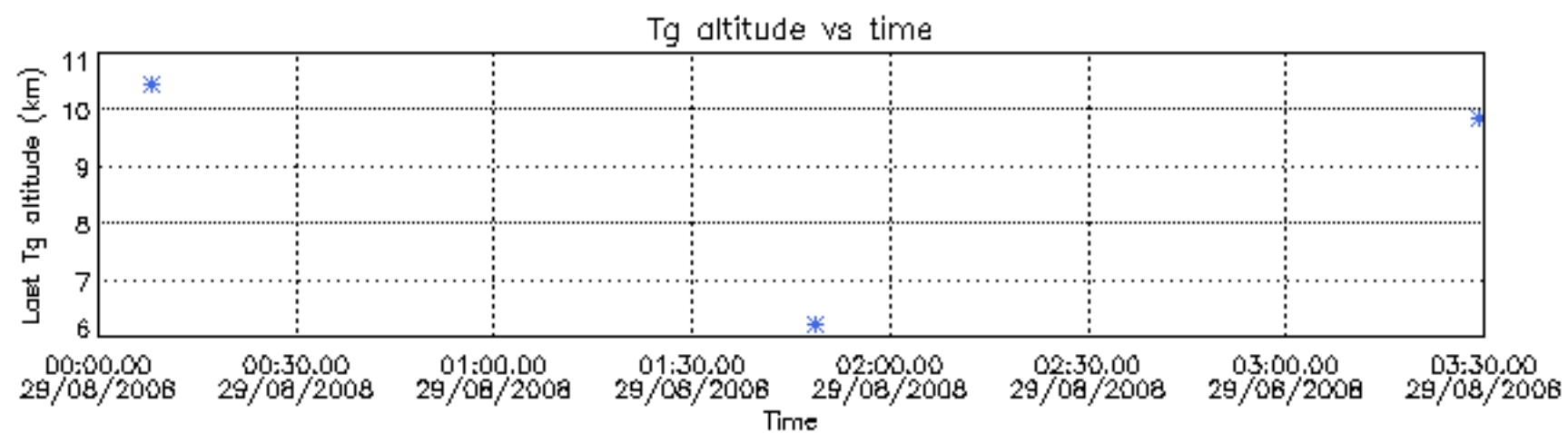
Tangent altitude at which the star is lost

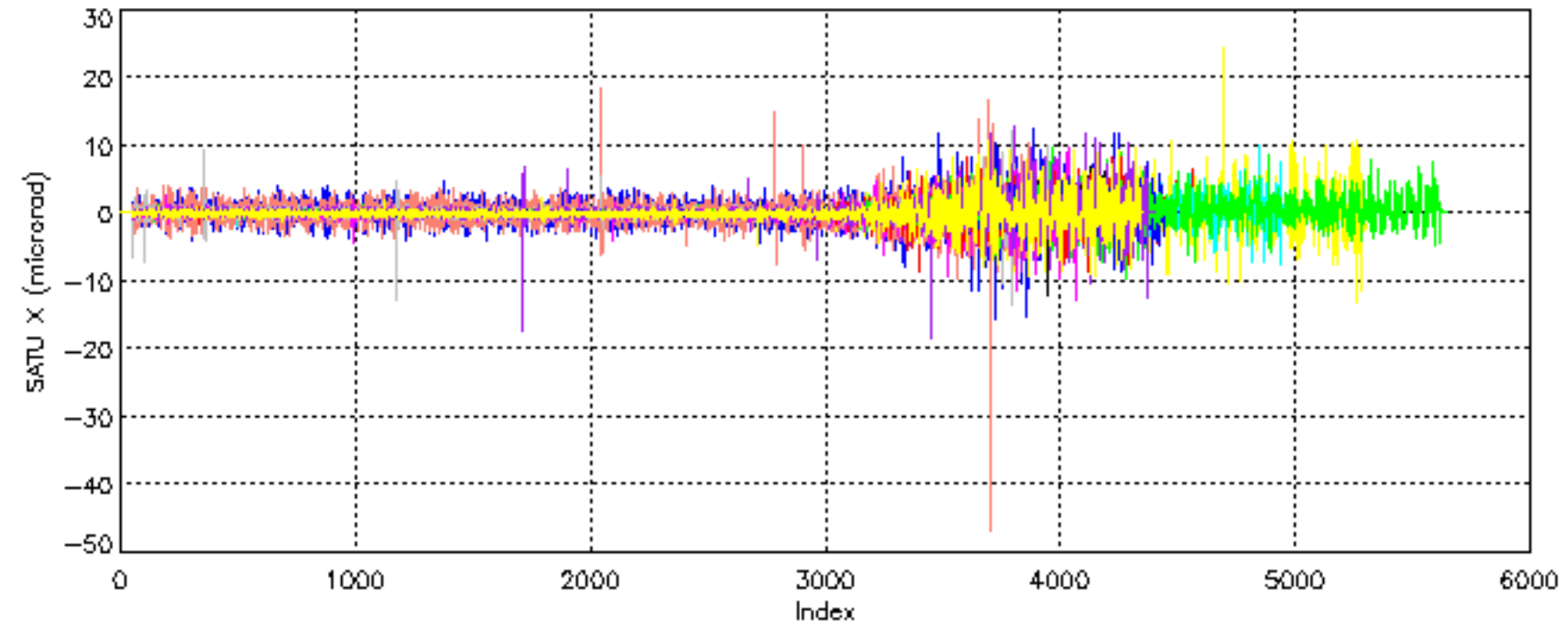


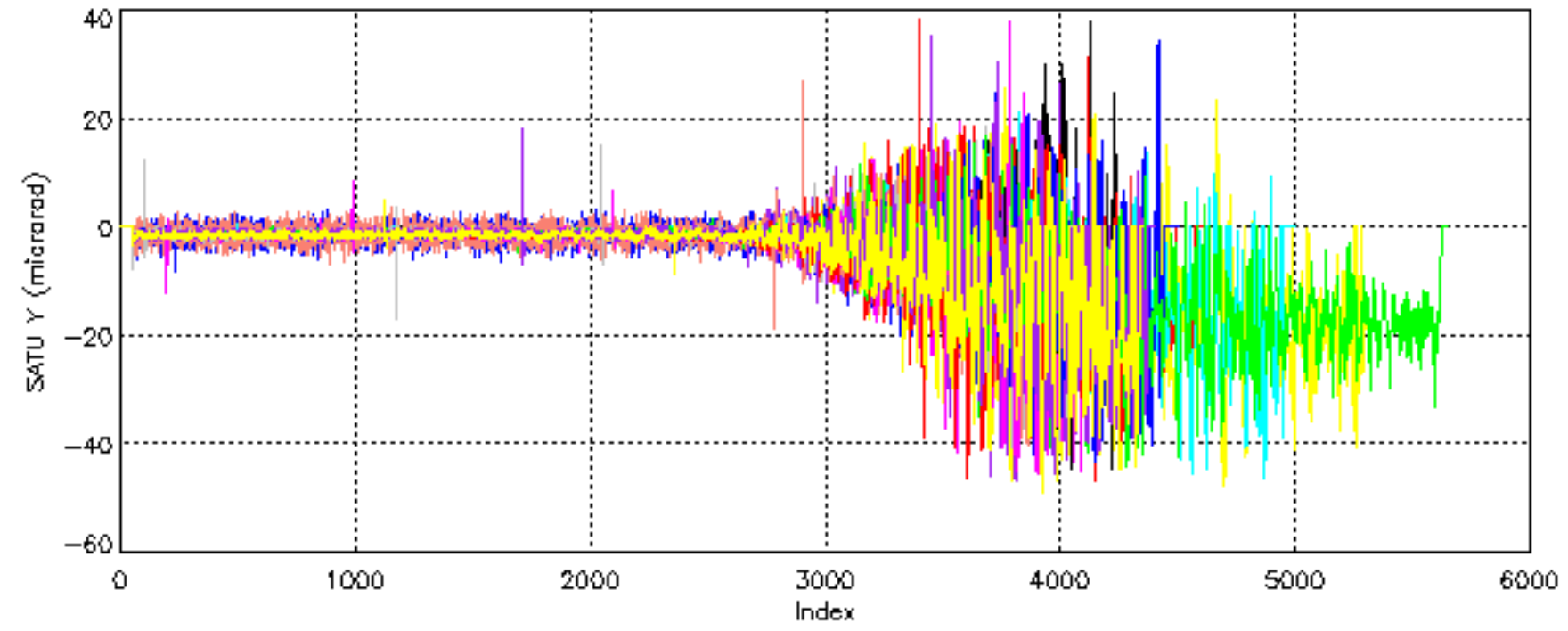
Tangent altitude at which the star is lost

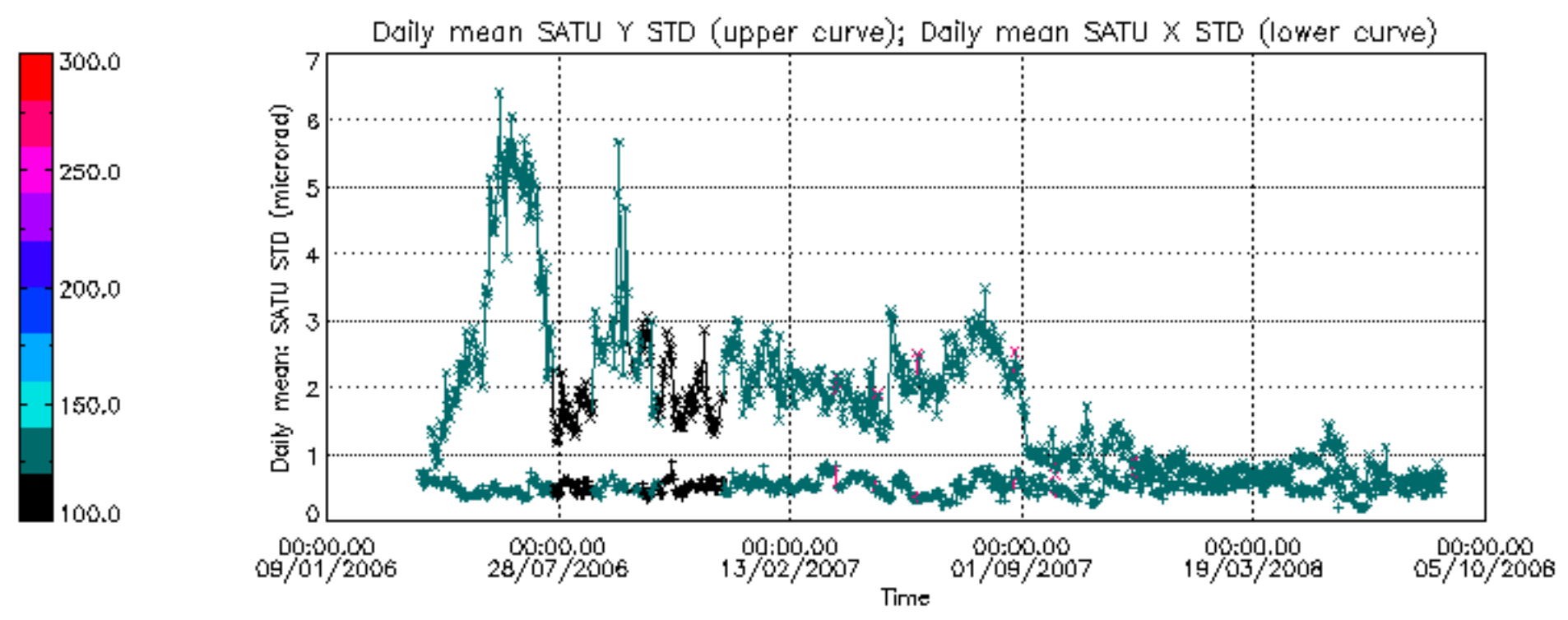


Tangent altitude at which the star is lost









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 2; -730.5; 01-AUG-2008 01:34:25; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;33566
 3; -299.3; 01-AUG-2008 01:41:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33566
 4; -19.6; 01-AUG-2008 01:46:16; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33566
 5; 310.1; 01-AUG-2008 01:51:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33567
 6; 720.4; 01-AUG-2008 01:58:36; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33567
 7; 921.8; 01-AUG-2008 02:01:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33567
 8; 1110.0; 01-AUG-2008 02:05:05; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33567
 9; 2059.2; 01-AUG-2008 02:20:55; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33567
 10; 2145.3; 01-AUG-2008 02:22:21; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33567
 11; 2570.2; 01-AUG-2008 02:29:26; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;33567
 12; 2694.1; 01-AUG-2008 02:31:30; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33567
 13; 3089.3; 01-AUG-2008 02:38:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33567
 14; 3441.0; 01-AUG-2008 02:43:56; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33567

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 2; -1689.0; 01-AUG-2008 02:59:02; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;33567
 3; -1520.3; 01-AUG-2008 03:01:51; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33567
 4; -1395.5; 01-AUG-2008 03:03:56; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33567
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 6; -1009.5; 01-AUG-2008 03:10:22; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33567
 7; -860.8; 01-AUG-2008 03:12:51; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;33567
 8; -730.2; 01-AUG-2008 03:15:01; Dark ; 39.0; 101; 11Alp Lep ; 2.58; 7000;occ; 78; 0;33567
 9; -298.6; 01-AUG-2008 03:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33567
 10; -18.6; 01-AUG-2008 03:26:53; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;33567
 11; 310.9; 01-AUG-2008 03:32:22; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33568
 12; 721.0; 01-AUG-2008 03:39:12; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33568
 13; 922.4; 01-AUG-2008 03:42:34; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33568
 14; 1110.6; 01-AUG-2008 03:45:42; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33568
 15; 2059.2; 01-AUG-2008 04:01:31; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33568
 16; 2145.4; 01-AUG-2008 04:02:57; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;33568
 17; 2570.4; 01-AUG-2008 04:10:02; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;33568
 18; 2693.9; 01-AUG-2008 04:12:05; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33568
 19; 3088.9; 01-AUG-2008 04:18:40; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;33568
 20; 3441.1; 01-AUG-2008 04:24:32; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33568

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 4; -1395.1; 01-AUG-2008 04:44:32; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;33568
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 9; -297.9; 01-AUG-2008 05:02:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33568
 10; -17.6; 01-AUG-2008 05:07:30; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;33568
 11; 311.6; 01-AUG-2008 05:12:59; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33569
 12; 721.2; 01-AUG-2008 05:19:49; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33569
 13; 922.9; 01-AUG-2008 05:23:10; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33569
 14; 1111.1; 01-AUG-2008 05:26:19; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;33569
 15; 2059.1; 01-AUG-2008 05:42:07; Bright; 37.5; 11; 53Alp Aql ; 0.76; 8000;occ; 75; 0;33569
 16; 2145.5; 01-AUG-2008 05:43:33; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;33569
 17; 2570.5; 01-AUG-2008 05:50:38; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;33569
 18; 2693.8; 01-AUG-2008 05:52:41; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33569
 19; 3088.5; 01-AUG-2008 05:59:16; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33569
 20; 3441.0; 01-AUG-2008 06:05:08; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33569

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 3; 2146.0; 01-AUG-2008 20:48:57; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;33578
 4; 2571.2; 01-AUG-2008 20:56:02; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;33578
 5; 2691.9; 01-AUG-2008 20:58:03; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;33578
 6; 3084.5; 01-AUG-2008 21:04:35; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33578
 7; 3440.8; 01-AUG-2008 21:10:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33578
 8; 4201.1; 01-AUG-2008 21:23:12; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;33578
 9; 4348.4; 01-AUG-2008 21:25:39; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33578
 10; 4517.4; 01-AUG-2008 21:28:28; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33578


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11; 4643.0; 01-AUG-2008 21:30:34; Dark ; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;33578
12; 4863.6; 01-AUG-2008 21:34:14; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33578
13; 5030.4; 01-AUG-2008 21:37:01; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33578
14; 5180.2; 01-AUG-2008 21:39:31; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;33578
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 2;-1688.6; 01-AUG-2008 06:20:15; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;33569
 3;-1520.0; 01-AUG-2008 06:23:03; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33569
 4;-1395.1; 01-AUG-2008 06:25:08; Dark ; 39.0; 176; 23Zet Tau ; 3.02; 22000;occ; 78; 0;33569
 5;-1174.7; 01-AUG-2008 06:28:49; Dark ; 42.0; 14; 58Alp Ori ; 0.87; 3000;occ; 84; 0;33569
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 7; -859.8; 01-AUG-2008 06:34:04; Dark ; 39.0; 7; 19Bet Ori ; 0.10; 14000;occ; 78; 0;33569
 8; -729.3; 01-AUG-2008 06:36:14; Dark ; 37.5; 101; 11Alp Lep ; 2.58; 7000;occ; 75; 0;33569
 9; -297.2; 01-AUG-2008 06:43:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33569
10; -16.7; 01-AUG-2008 06:48:07; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;33569
11; 312.3; 01-AUG-2008 06:53:36; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;33570
12; 721.8; 01-AUG-2008 07:00:25; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33570
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14; 1111.6; 01-AUG-2008 07:06:55; Dark ; 43.5; 172; Gam Gru ; 3.00; 13100;occ; 87; 0;33570
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 3; 2570.5; 01-AUG-2008 07:31:14; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;33570
 4; 2693.6; 01-AUG-2008 07:33:17; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33570
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 8; 4347.3; 01-AUG-2008 08:00:51; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33570
 9; 4516.0; 01-AUG-2008 08:03:39; Dark ; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;33570
10; 4641.1; 01-AUG-2008 08:05:44; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;33570
11; 4861.6; 01-AUG-2008 08:09:25; Dark ; 40.5; 14; 58Alp Ori ; 0.87; 3000;occ; 81; 0;33570
12; 5027.5; 01-AUG-2008 08:12:11; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;33570
13; 5176.6; 01-AUG-2008 08:14:40; Dark ; 40.5; 7; 19Bet Ori ; 0.10; 14000;occ; 81; 0;33570
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5; 3025.7; 13-AUG-2008 13:03:35; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33745
6; 3438.6; 13-AUG-2008 13:10:28; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33745
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3; -769.8; 15-AUG-2008 02:34:06; Dark ; 41.5; 1; 9Alp CMa ; -1.44; 11000;occ; 83; 0;33767
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14; 2599.4; 15-AUG-2008 03:30:15; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;33768
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16; 3019.2; 15-AUG-2008 03:37:15; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;33768
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4; -671.3; 15-AUG-2008 04:16:21; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33768
5; -584.0; 15-AUG-2008 04:17:48; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;33768
6; -423.9; 15-AUG-2008 04:20:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33768
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8; 449.8; 15-AUG-2008 04:35:02; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33769
9; 798.2; 15-AUG-2008 04:40:50; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33769
10; 1011.5; 15-AUG-2008 04:44:23; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33769
11; 1190.3; 15-AUG-2008 04:47:22; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;33769
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13; 2504.8; 15-AUG-2008 05:09:17; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33769
14; 2599.2; 15-AUG-2008 05:10:51; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33769
15; 2675.1; 15-AUG-2008 05:12:07; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33769
16; 3018.9; 15-AUG-2008 05:17:51; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33769
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6; -423.5; 15-AUG-2008 06:01:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33769
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8; 450.5; 15-AUG-2008 06:15:38; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33770
9; 798.5; 15-AUG-2008 06:21:26; Dark ; 47.0; 148; Alp Tuc ; 2.88; 4100;occ; 94; 0;33770
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11; 1190.7; 15-AUG-2008 06:27:59; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;33770
12; 2064.4; 15-AUG-2008 06:42:32; Bright; 36.0; 11; 53Alp Aql ; 0.76; 8000;occ; 72; 0;33770
13; 2504.6; 15-AUG-2008 06:49:53; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33770
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15; 2675.0; 15-AUG-2008 06:52:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33770
16; 3018.6; 15-AUG-2008 06:58:27; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33770
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6; 2675.1; 15-AUG-2008 20:17:31; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33778
7; 3016.3; 15-AUG-2008 20:23:12; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;33778
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4; -419.9; 15-AUG-2008 21:06:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33778
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6; 1591.9; 15-AUG-2008 23:20:39; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33780
7; 2113.3; 15-AUG-2008 23:29:20; Bright; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;33780
8; 2502.4; 15-AUG-2008 23:35:50; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33780
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13; 6489.2; 15-AUG-2008 12:58:05; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;33773
14; 6835.7; 15-AUG-2008 13:03:51; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33773
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16; 7227.7; 15-AUG-2008 13:10:23; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;33773
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9; 5268.3; 15-AUG-2008 14:18:20; Dark ; 41.0; 1; 9Alp CMa ; -1.44; 11000;occ; 82; 0;33774
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13; 5863.3; 15-AUG-2008 14:28:15; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;33774
14; 6489.9; 15-AUG-2008 14:38:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33774
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3; 2598.5; 15-AUG-2008 15:14:26; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33775
4; 2675.1; 15-AUG-2008 15:15:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33775
5; 3017.3; 15-AUG-2008 15:21:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33775
6; 3438.2; 15-AUG-2008 15:28:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33775
7; 4625.6; 15-AUG-2008 15:48:13; Dark ; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;33775
8; 4720.9; 15-AUG-2008 15:49:48; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;33775
9; 5268.7; 15-AUG-2008 15:58:56; Dark ; 42.0; 1; 9Alp CMa ; -1.44; 11000;occ; 84; 0;33775
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11; 5614.8; 15-AUG-2008 16:04:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33775
12; 5863.6; 15-AUG-2008 16:08:51; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;33775
13; 6490.7; 15-AUG-2008 16:19:18; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33775
14; 6836.4; 15-AUG-2008 16:25:04; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;33775
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 9; 4721.1; 15-AUG-2008 17:30:25; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;33776
 10; 5269.0; 15-AUG-2008 17:39:32; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;33776
 11; 5615.2; 15-AUG-2008 17:45:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33776
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 13; 6491.3; 15-AUG-2008 17:59:55; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33776
 14; 6836.8; 15-AUG-2008 18:05:40; Dark ; 46.0; 148; Alp Tuc ; 2.88; 4100;occ; 92; 0;33776
 15; 7050.4; 15-AUG-2008 18:09:14; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;33776

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 4; 2503.2; 15-AUG-2008 18:34:03; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33777
 5; 2598.2; 15-AUG-2008 18:35:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33777
 6; 2675.2; 15-AUG-2008 18:36:55; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33777
 7; 3016.8; 15-AUG-2008 18:42:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;33777
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 9; 4626.0; 15-AUG-2008 19:09:25; Dark ; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;33777
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 11; 5269.2; 15-AUG-2008 19:20:09; Dark ; 44.5; 1; 9Alp CMa ; -1.44; 11000;occ; 89; 0;33777
 12; 5366.7; 15-AUG-2008 19:21:46; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;33777
 13; 5454.1; 15-AUG-2008 19:23:13; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;33777
 14; 5615.6; 15-AUG-2008 19:25:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33777
 15; 5864.0; 15-AUG-2008 19:30:03; Dark ; 41.5; 2; Alp Car ; -0.74; 7000;occ; 83; 0;33777
 16; 6492.0; 15-AUG-2008 19:40:31; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33777
 17; 6837.0; 15-AUG-2008 19:46:16; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;33777
 18; 7050.9; 15-AUG-2008 19:49:50; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;33777

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 4; 212.5; 16-AUG-2008 00:38:16; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33781
 5; 458.0; 16-AUG-2008 00:42:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33781
 6; 802.5; 16-AUG-2008 00:48:05; Dark ; 62.0; 84; Alp Phe ; 2.40; 4500;occ; 124; 0;33781
 7; 1015.8; 16-AUG-2008 00:51:39; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33781
 8; 1252.8; 16-AUG-2008 00:55:36; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;33781
 9; 1592.0; 16-AUG-2008 01:01:15; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;33781
 10; 2113.0; 16-AUG-2008 01:09:56; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33781
 11; 2502.2; 16-AUG-2008 01:16:25; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;33781
 12; 2597.6; 16-AUG-2008 01:18:01; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33781
 13; 2694.4; 16-AUG-2008 01:19:37; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;33781
 14; 3015.6; 16-AUG-2008 01:24:59; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33781
 15; 3437.9; 16-AUG-2008 01:32:01; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;33781
 16; 4193.2; 16-AUG-2008 01:44:36; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;33781
 17; 4367.4; 16-AUG-2008 01:47:30; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33781
 18; 4553.7; 16-AUG-2008 01:50:37; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33781
 19; 4722.2; 16-AUG-2008 01:53:25; Dark ; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;33781
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 3; -730.4; 16-AUG-2008 02:03:09; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;33781
 4; -618.8; 16-AUG-2008 02:05:00; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;33781
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 7; 458.8; 16-AUG-2008 02:22:58; Dark ; 54.5; 9; Alp Eri ; 0.45; 24000;occ; 109; 0;33782
 8; 803.3; 16-AUG-2008 02:28:42; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;33782
 9; 1016.2; 16-AUG-2008 02:32:15; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33782
 10; 1253.4; 16-AUG-2008 02:36:12; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33782
 11; 1592.3; 16-AUG-2008 02:41:51; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33782
 12; 1799.9; 16-AUG-2008 02:45:19; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33782
 13; 2112.8; 16-AUG-2008 02:50:32; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33782

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14; 1016.8; 16-AUG-2008 04:12:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33783
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17; 1800.0; 16-AUG-2008 04:25:55; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;33783
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19; 2502.1; 16-AUG-2008 04:37:37; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33783
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6; 2106.2; 17-AUG-2008 17:24:11; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33805
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 10; 1910.6; 20-AUG-2008 00:40:41; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33838
 11; 2097.8; 20-AUG-2008 00:43:48; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;33838
 12; 2493.1; 20-AUG-2008 00:50:24; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33838
 13; 2593.4; 20-AUG-2008 00:52:04; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;33838
 14; 2685.3; 20-AUG-2008 00:53:36; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;33838
 15; 3002.0; 20-AUG-2008 00:58:53; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33838
 16; 3437.1; 20-AUG-2008 01:06:08; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33838
 17; 4187.4; 20-AUG-2008 01:18:38; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;33838
 18; 4371.3; 20-AUG-2008 01:21:42; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;33838
 19; 4565.5; 20-AUG-2008 01:24:56; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33838
 20; 4640.2; 20-AUG-2008 01:26:11; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;33838
 21; 4737.2; 20-AUG-2008 01:27:48; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33838
 22; 4960.2; 20-AUG-2008 01:31:31; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;33838
 23; 5045.8; 20-AUG-2008 01:32:56; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;33838
 24; 5163.0; 20-AUG-2008 01:34:54; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33838

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1; -1847.2; 19-AUG-2008 06:52:04; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;33827
 2; -1665.1; 19-AUG-2008 06:55:06; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;33827
 3; -1472.8; 19-AUG-2008 06:58:19; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33827
 4; -1301.7; 19-AUG-2008 07:01:10; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;33827
 5; -1081.1; 19-AUG-2008 07:04:50; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33827

6; -997.6; 19-AUG-2008 07:06:14; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;33827
7; -880.6; 19-AUG-2008 07:08:11; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;33827
8; -793.5; 19-AUG-2008 07:09:38; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33827
9; -691.0; 19-AUG-2008 07:11:20; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;33827
10; -585.6; 19-AUG-2008 07:13:06; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;33827
11; -412.7; 19-AUG-2008 07:15:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33827
12; 269.0; 19-AUG-2008 07:27:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;33828
13; 489.9; 19-AUG-2008 07:31:01; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33828
14; 840.7; 19-AUG-2008 07:36:52; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;33828
15; 1032.7; 19-AUG-2008 07:40:04; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33828
16; 1271.9; 19-AUG-2008 07:44:03; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33828
17; 1597.6; 19-AUG-2008 07:49:29; Bright; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;33828

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1; 1799.4; 19-AUG-2008 07:52:51; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33828
2; 1912.6; 19-AUG-2008 07:54:44; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33828
3; 2100.2; 19-AUG-2008 07:57:52; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33828
4; 2494.5; 19-AUG-2008 08:04:26; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33828
5; 2594.1; 19-AUG-2008 08:06:05; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33828
6; 2686.9; 19-AUG-2008 08:07:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33828
7; 3004.3; 19-AUG-2008 08:12:56; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33828
8; 3437.5; 19-AUG-2008 08:20:09; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33828
9; 4188.7; 19-AUG-2008 08:32:40; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;33828
10; 4370.9; 19-AUG-2008 08:35:42; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;33828
11; 4563.4; 19-AUG-2008 08:38:55; Dark ; 55.5; 28; 12Bet Tau ; 1.65; 15200;occ; 111; 0;33828
12; 4734.6; 19-AUG-2008 08:41:46; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33828
13; 4955.2; 19-AUG-2008 08:45:27; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;33828
14; 5039.0; 19-AUG-2008 08:46:50; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;33828
15; 5156.1; 19-AUG-2008 08:48:48; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33828
16; 5243.2; 19-AUG-2008 08:50:15; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33828
17; 5345.8; 19-AUG-2008 08:51:57; Dark ; 61.0; 7; 19Bet Ori ; 0.10; 14000;occ; 122; 0;33828
18; 5451.1; 19-AUG-2008 08:53:42; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;33828
19; 5624.0; 19-AUG-2008 08:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33828
20; 6306.1; 19-AUG-2008 09:07:58; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33828
21; 6526.5; 19-AUG-2008 09:11:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33828
22; 6877.4; 19-AUG-2008 09:17:29; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;33828
23; 7068.9; 19-AUG-2008 09:20:40; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33828
24; 7308.1; 19-AUG-2008 09:24:40; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33828
25; 7633.6; 19-AUG-2008 09:30:05; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33828
26; 7835.4; 19-AUG-2008 09:33:27; Bright; 18.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 37; 0;33828

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2; 1912.4; 19-AUG-2008 09:35:20; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33829
3; 2099.9; 19-AUG-2008 09:38:27; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33829
4; 2494.3; 19-AUG-2008 09:45:02; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33829
5; 2593.9; 19-AUG-2008 09:46:41; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33829
6; 2686.8; 19-AUG-2008 09:48:14; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;33829
7; 3004.0; 19-AUG-2008 09:53:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33829
8; 3437.5; 19-AUG-2008 10:00:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33829
9; 4188.5; 19-AUG-2008 10:13:16; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33829
10; 4370.9; 19-AUG-2008 10:16:18; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33829
11; 4563.6; 19-AUG-2008 10:19:31; Dark ; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;33829
12; 4734.8; 19-AUG-2008 10:22:22; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33829
13; 4955.7; 19-AUG-2008 10:26:03; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;33829
14; 5039.7; 19-AUG-2008 10:27:27; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;33829
15; 5156.7; 19-AUG-2008 10:29:24; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;33829
16; 5244.0; 19-AUG-2008 10:30:51; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33829
17; 5346.8; 19-AUG-2008 10:32:34; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;33829
18; 5451.8; 19-AUG-2008 10:34:19; Dark ; 49.0; 101; 11Alp Lep ; 2.58; 7000;occ; 98; 0;33829
19; 5624.8; 19-AUG-2008 10:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33829
20; 6307.3; 19-AUG-2008 10:48:35; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;33829
21; 6527.2; 19-AUG-2008 10:52:15; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33829
22; 6878.1; 19-AUG-2008 10:58:05; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;33829
23; 7069.2; 19-AUG-2008 11:01:17; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33829
24; 7308.6; 19-AUG-2008 11:05:16; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33829
25; 7633.6; 19-AUG-2008 11:10:41; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33829

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2; 1912.1; 19-AUG-2008 11:15:55; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33830

3;	2099.6;	19-AUG-2008	11:19:03;	Bright;	41.0;	61;	8Eps Peg	; 2.10;	3900;occ;	82;	0;	33830
4;	2494.1;	19-AUG-2008	11:25:37;	Bright;	36.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	72;	0;	33830
5;	2593.9;	19-AUG-2008	11:27:17;	Bright;	37.0;	66;	37Gam Cyg	; 2.21;	5900;occ;	74;	0;	33830
6;	2686.6;	19-AUG-2008	11:28:50;	Bright;	38.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	77;	0;	33830
7;	3003.8;	19-AUG-2008	11:34:07;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;	33830
8;	3437.2;	19-AUG-2008	11:41:20;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	33830
9;	4188.3;	19-AUG-2008	11:53:51;	Bright;	47.0;	6;	13Alp Aur	; 0.08;	3400;occ;	94;	0;	33830
10;	4371.0;	19-AUG-2008	11:56:54;	Bright;	39.5;	107;	37The Aur	; 2.65;	11000;occ;	79;	0;	33830
11;	4563.7;	19-AUG-2008	12:00:07;	Dark	; 52.0;	28;	12Bet Tau	; 1.65;	15200;occ;	104;	0;	33830
12;	4735.0;	19-AUG-2008	12:02:58;	Dark	; 40.0;	44;	24Gam Gem	; 1.93;	11000;occ;	80;	0;	33830
13;	4956.2;	19-AUG-2008	12:06:39;	Dark	; 62.0;	14;	58Alp Ori	; 0.87;	3000;occ;	124;	0;	33830
14;	5040.3;	19-AUG-2008	12:08:03;	Dark	; 56.0;	27;	24Gam Ori	; 1.64;	26000;occ;	112;	0;	33830
15;	5157.4;	19-AUG-2008	12:10:01;	Dark	; 53.0;	30;	46Eps Ori	; 1.69;	30000;occ;	106;	0;	33830
16;	5244.6;	19-AUG-2008	12:11:28;	Dark	; 47.5;	125;	44Iot Ori	; 2.77;	30000;occ;	95;	0;	33830
17;	5347.7;	19-AUG-2008	12:13:11;	Dark	; 58.0;	7;	19Bet Ori	; 0.10;	14000;occ;	116;	0;	33830
18;	5452.6;	19-AUG-2008	12:14:56;	Dark	; 47.0;	101;	11Alp Lep	; 2.58;	7000;occ;	94;	0;	33830
19;	5625.6;	19-AUG-2008	12:17:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	33830
20;	6308.4;	19-AUG-2008	12:29:12;	Dark	; 52.0;	157;	The1Eri	; 2.91;	9300;occ;	104;	0;	33830
21;	6527.9;	19-AUG-2008	12:32:51;	Dark	; 46.5;	9;	Alp Eri	; 0.45;	24000;occ;	93;	0;	33830
22;	6878.9;	19-AUG-2008	12:38:42;	Dark	; 52.5;	84;	Alp Phe	; 2.40;	4500;occ;	105;	0;	33830
23;	7069.6;	19-AUG-2008	12:41:53;	Dark	; 39.0;	31;	Alp Gru	; 1.73;	15200;occ;	78;	0;	33830
24;	7308.9;	19-AUG-2008	12:45:52;	Dark	; 54.0;	18;	24Alp PsA	; 1.17;	9700;occ;	108;	0;	33830
25;	7633.8;	19-AUG-2008	12:51:17;	Bright;	41.0;	142;	49Del Cap	; 2.85;	8900;occ;	82;	0;	33830
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2;	1799.4;	19-AUG-2008	12:54:38;	Bright;	40.0;	154;	22Bet Aqr	; 2.90;	5700;occ;	80;	0;	33831
3;	1912.0;	19-AUG-2008	12:56:31;	Bright;	45.0;	162;	34Alp Aqr	; 2.94;	5350;occ;	90;	0;	33831
4;	2099.4;	19-AUG-2008	12:59:38;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;	33831
5;	2494.1;	19-AUG-2008	13:06:13;	Bright;	38.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	77;	0;	33831
6;	2593.8;	19-AUG-2008	13:07:53;	Bright;	37.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	75;	0;	33831
7;	2686.5;	19-AUG-2008	13:09:26;	Bright;	35.0;	19;	50Alp Cyg	; 1.25;	10500;occ;	70;	0;	33831
8;	3003.5;	19-AUG-2008	13:14:43;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;	33831
9;	3437.5;	19-AUG-2008	13:21:56;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	33831
10;	4188.2;	19-AUG-2008	13:34:27;	Bright;	48.5;	6;	13Alp Aur	; 0.08;	3400;occ;	97;	0;	33831
11;	4371.0;	19-AUG-2008	13:37:30;	Bright;	40.5;	107;	37The Aur	; 2.65;	11000;occ;	81;	0;	33831
12;	4564.0;	19-AUG-2008	13:40:43;	Dark	; 55.5;	28;	12Bet Tau	; 1.65;	15200;occ;	111;	0;	33831
13;	4735.5;	19-AUG-2008	13:43:35;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;	33831
14;	4956.7;	19-AUG-2008	13:47:16;	Dark	; 58.5;	14;	58Alp Ori	; 0.87;	3000;occ;	117;	0;	33831
15;	5041.1;	19-AUG-2008	13:48:40;	Dark	; 57.5;	27;	24Gam Ori	; 1.64;	26000;occ;	115;	0;	33831
16;	5158.2;	19-AUG-2008	13:50:37;	Dark	; 52.5;	30;	46Eps Ori	; 1.69;	30000;occ;	105;	0;	33831
17;	5245.4;	19-AUG-2008	13:52:04;	Dark	; 48.0;	125;	44Iot Ori	; 2.77;	30000;occ;	96;	0;	33831
18;	5348.6;	19-AUG-2008	13:53:48;	Dark	; 59.5;	7;	19Bet Ori	; 0.10;	14000;occ;	119;	0;	33831
19;	5453.4;	19-AUG-2008	13:55:32;	Dark	; 48.0;	101;	11Alp Lep	; 2.58;	7000;occ;	96;	0;	33831
20;	5626.5;	19-AUG-2008	13:58:25;	Dark	; 59.0;	0;		; 0.00;	0;occ;	118;	0;	33831
21;	6309.7;	19-AUG-2008	14:09:49;	Dark	; 53.5;	157;	The1Eri	; 2.91;	9300;occ;	107;	0;	33831
22;	6528.6;	19-AUG-2008	14:13:28;	Dark	; 45.0;	9;	Alp Eri	; 0.45;	24000;occ;	90;	0;	33831
23;	6879.7;	19-AUG-2008	14:19:19;	Dark	; 54.0;	84;	Alp Phe	; 2.40;	4500;occ;	108;	0;	33831
24;	7070.0;	19-AUG-2008	14:22:29;	Dark	; 39.5;	31;	Alp Gru	; 1.73;	15200;occ;	79;	0;	33831
25;	7309.3;	19-AUG-2008	14:26:28;	Dark	; 52.5;	18;	24Alp PsA	; 1.17;	9700;occ;	105;	0;	33831
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2;	1799.5;	19-AUG-2008	14:35:14;	Bright;	40.5;	154;	22Bet Aqr	; 2.90;	5700;occ;	81;	0;	33832
3;	1911.9;	19-AUG-2008	14:37:07;	Bright;	45.5;	162;	34Alp Aqr	; 2.94;	5350;occ;	91;	0;	33832
4;	2099.3;	19-AUG-2008	14:40:14;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;	33832
5;	2494.0;	19-AUG-2008	14:46:49;	Bright;	37.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	75;	0;	33832
6;	2593.8;	19-AUG-2008	14:48:29;	Bright;	35.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	71;	0;	33832
7;	2686.4;	19-AUG-2008	14:50:01;	Bright;	37.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	75;	0;	33832
8;	3003.4;	19-AUG-2008	14:55:18;	Bright;	37.0;	89;	5Alp Cep	; 2.45;	8000;occ;	74;	0;	33832
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11; 7035.4; 23-AUG-2008 12:15:26; Dark ; 92.5; 31; Alp Gru ; 1.73; 15200;occ; 185; 0;33887
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5; 1903.4; 23-AUG-2008 17:32:18; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;33891
6; 2087.4; 23-AUG-2008 17:35:22; Bright; 41.5; 61; 8Eps Peg ; 2.10; 3900;occ; 83; 0;33891

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13; 4436.2; 23-AUG-2008 19:55:06; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;33892
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7; 535.1; 24-AUG-2008 01:32:29; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33896
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5; 1899.1; 26-AUG-2008 19:18:34; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;33935
6; 2081.3; 26-AUG-2008 19:21:36; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;33935
7; 2486.4; 26-AUG-2008 19:28:21; Bright; 34.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 69; 0;33935
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9; 2677.8; 26-AUG-2008 19:31:33; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33935
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12; 4442.5; 26-AUG-2008 20:00:57; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;33935
13; 4665.5; 26-AUG-2008 20:04:40; Dark ; 53.0; 151; 13Mu Gem ; 2.89; 3000;occ; 106; 0;33935
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7; -527.2; 27-AUG-2008 03:01:07; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;33939
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19; 2594.4; 27-AUG-2008 05:33:45; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33941
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6; -614.7; 27-AUG-2008 06:20:51; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;33941
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 17; 2080.4; 27-AUG-2008 07:05:47; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;33942
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 7; 2079.6; 27-AUG-2008 20:30:33; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;33950
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 16; 2595.1; 27-AUG-2008 22:19:45; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;33951
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