

GOMOS Daily Report 13-JUN-2008

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	15JUN2008 05:32:37
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (13JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

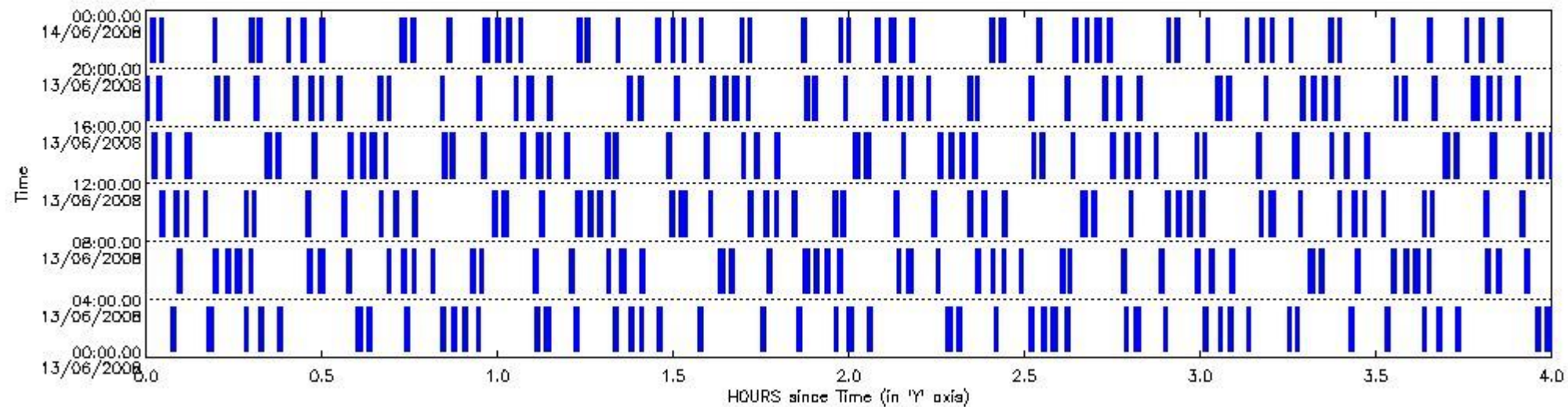
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

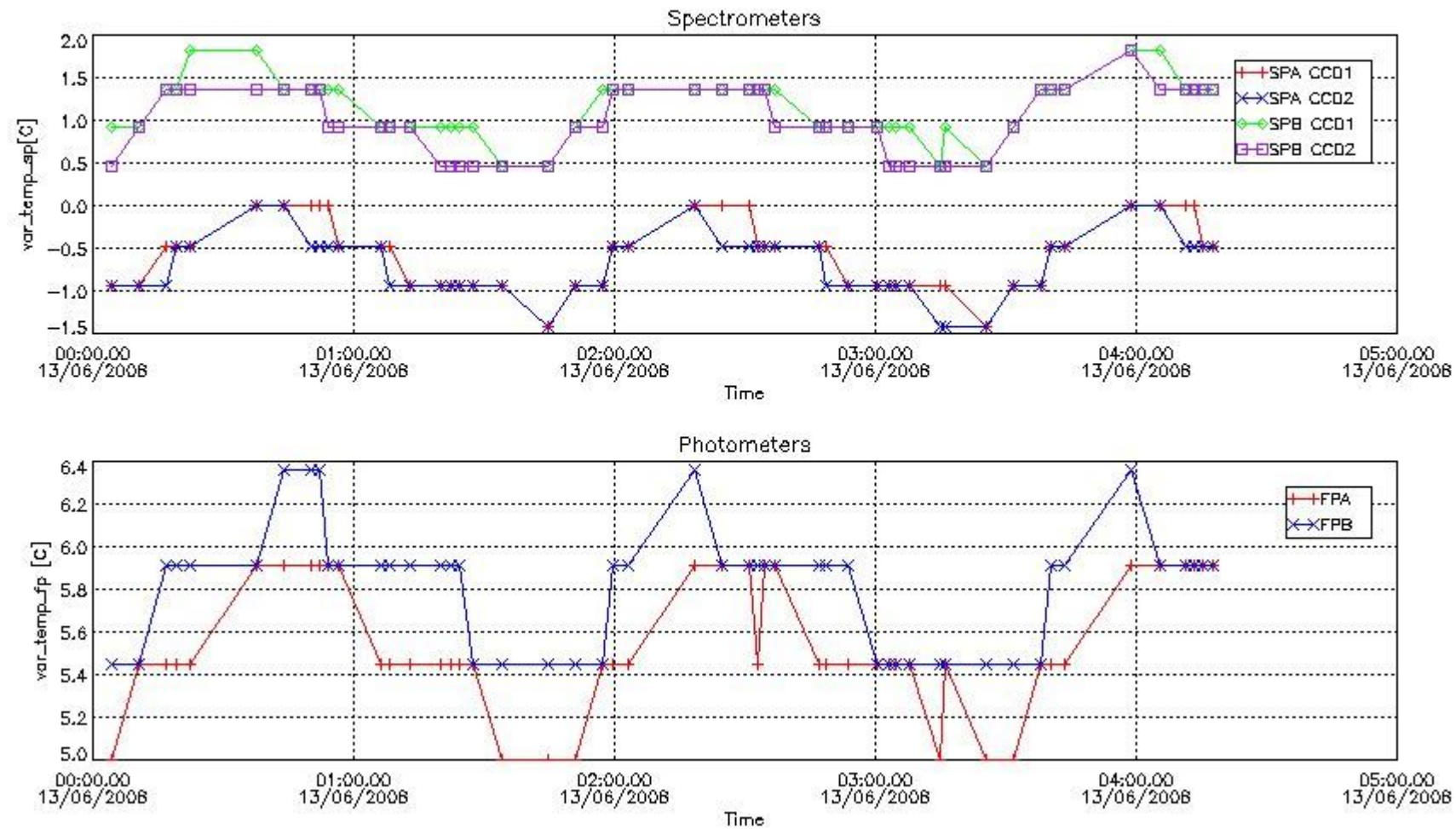
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080613_000415_000000472069_00245_32864_0505.N1	13-JUN-2008 00:04:15	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32864	No
2	GOM_TRA_1PNPDE20080613_001027_000000632069_00245_32864_0506.N1	13-JUN-2008 00:10:27	Bright	63.000	74	11Bet Cas	2.2680	6600.0	126	32864	No
3	GOM_TRA_1PNPDE20080613_001646_000000392069_00245_32864_0507.N1	13-JUN-2008 00:16:46	Bright	39.000	73	57Gam1And	2.2600	13100.	78	32864	No
4	GOM_TRA_1PNPDE20080613_001906_000000562069_00245_32864_0508.N1	13-JUN-2008 00:19:06	Twilight	56.000	53	43Bet And	2.0480	3300.0	112	32864	No
5	GOM_TRA_1PNPDE20080613_002230_000000452069_00245_32864_0509.N1	13-JUN-2008 00:22:30	Twilight	45.000	50	13Alp Ari	2.0070	4250.0	90	32864	No
6	GOM_TRA_1PNPDE20080613_003744_000000512069_00245_32864_0641.N1	13-JUN-2008 00:37:44	Dark	50.500	52	16Bet Cet	2.0370	4500.0	101	32864	No
7	GOM_TRA_1PNPDE20080613_004405_000000462069_00245_32864_0642.N1	13-JUN-2008 00:44:05	Dark	45.500	84	Alp Phe	2.3970	4500.0	91	32864	No
8	GOM_TRA_1PNPDE20080613_005011_000000522069_00246_32865_0643.N1	13-JUN-2008 00:50:11	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	32865	No
9	GOM_TRA_1PNPDE20080613_005214_000000482069_00246_32865_0644.N1	13-JUN-2008 00:52:14	Dark	48.000	31	Alp Gru	1.7340	15200.	96	32865	No
10	GOM_TRA_1PNPDE20080613_005356_000000582069_00246_32865_0645.N1	13-JUN-2008 00:53:56	Straylight	57.500	172	Gam Gru	3.0030	13100.	115	32865	No
11	GOM_TRA_1PNPDE20080613_005617_000000422069_00246_32865_0646.N1	13-JUN-2008 00:56:17	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	32865	No
12	GOM_TRA_1PNPDE20080613_010621_000000452069_00246_32865_0647.N1	13-JUN-2008 01:06:21	Twilight	44.500	25	35Lam Sco	1.6200	28000.	89	32865	No

13	GOM_TRA_1PNPDE20080613_010803_000000602069_00246_32865_0648.N1	13-JUN-2008 01:08:03	Bright	60.000	57	34Sig Sgr	2.0660	26000.	120	32865	No
14	GOM_TRA_1PNPDE20080613_011303_000000402069_00246_32865_0649.N1	13-JUN-2008 01:13:03	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	32865	No
15	GOM_TRA_1PNPDE20080613_011950_000000452069_00246_32865_0650.N1	13-JUN-2008 01:19:50	Bright	45.000	126	60Bet Oph	2.7700	4250.0	90	32865	No
16	GOM_TRA_1PNPDE20080613_012224_000000452069_00246_32865_0651.N1	13-JUN-2008 01:22:24	Bright	44.500	59	55Alp Oph	2.0800	8900.0	89	32865	No
17	GOM_TRA_1PNPDE20080613_012414_000000372069_00246_32865_0652.N1	13-JUN-2008 01:24:14	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32865	No
18	GOM_TRA_1PNPDE20080613_012719_000000402069_00246_32865_0653.N1	13-JUN-2008 01:27:19	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	32865	No
19	GOM_TRA_1PNPDE20080613_013416_000000382069_00246_32865_0654.N1	13-JUN-2008 01:34:16	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	32865	No
20	GOM_TRA_1PNPDE20080613_014450_000000472069_00246_32865_0655.N1	13-JUN-2008 01:44:50	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	32865	No
21	GOM_TRA_1PNPDE20080613_015103_000000462069_00246_32865_0656.N1	13-JUN-2008 01:51:03	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	32865	No
22	GOM_TRA_1PNPDE20080613_015722_000000402069_00246_32865_0657.N1	13-JUN-2008 01:57:22	Bright	39.500	73	57Gam1And	2.2600	13100.	79	32865	No
23	GOM_TRA_1PNPDE20080613_015942_000000552069_00246_32865_0658.N1	13-JUN-2008 01:59:42	Twilight	54.500	53	43Bet And	2.0480	3300.0	109	32865	No
24	GOM_TRA_1PNPDE20080613_020306_000000452069_00246_32865_0659.N1	13-JUN-2008 02:03:06	Twilight	44.500	50	13Alp Ari	2.0070	4250.0	89	32865	No
25	GOM_TRA_1PNPDE20080613_021821_000000582069_00246_32865_0772.N1	13-JUN-2008 02:18:21	Dark	57.500	52	16Bet Cet	2.0370	4500.0	115	32865	No
26	GOM_TRA_1PNPDE20080613_022442_000000412069_00246_32865_0773.N1	13-JUN-2008 02:24:42	Dark	41.000	84	Alp Phe	2.3970	4500.0	82	32865	No
27	GOM_TRA_1PNPDE20080613_023048_000000512069_00247_32866_0774.N1	13-JUN-2008 02:30:48	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	32866	No
28	GOM_TRA_1PNPDE20080613_023250_000000482069_00247_32866_0775.N1	13-JUN-2008 02:32:50	Dark	47.500	31	Alp Gru	1.7340	15200.	95	32866	No
29	GOM_TRA_1PNPDE20080613_023433_000000572069_00247_32866_0776.N1	13-JUN-2008 02:34:33	Straylight	57.000	172	Gam Gru	3.0030	13100.	114	32866	No
30	GOM_TRA_1PNPDE20080613_023654_000000432069_00247_32866_0777.N1	13-JUN-2008 02:36:54	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32866	No
31	GOM_TRA_1PNPDE20080613_024657_000000422069_00247_32866_0778.N1	13-JUN-2008 02:46:57	Twilight	41.500	25	35Lam Sco	1.6200	28000.	83	32866	No
32	GOM_TRA_1PNPDE20080613_024840_000000582069_00247_32866_0779.N1	13-JUN-2008 02:48:40	Bright	57.500	57	34Sig Sgr	2.0660	26000.	115	32866	No
33	GOM_TRA_1PNPDE20080613_025339_000000402069_00247_32866_0780.N1	13-JUN-2008 02:53:39	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	32866	No
34	GOM_TRA_1PNPDE20080613_030026_000000452069_00247_32866_0781.N1	13-JUN-2008 03:00:26	Bright	44.500	126	60Bet Oph	2.7700	4250.0	89	32866	No
35	GOM_TRA_1PNPDE20080613_030300_000000452069_00247_32866_0782.N1	13-JUN-2008 03:03:00	Bright	44.500	59	55Alp Oph	2.0800	8900.0	89	32866	No
36	GOM_TRA_1PNPDE20080613_030450_000000372069_00247_32866_0783.N1	13-JUN-2008 03:04:50	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	32866	No
37	GOM_TRA_1PNPDE20080613_030755_000000382069_00247_32866_0784.N1	13-JUN-2008 03:07:55	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	32866	No
38	GOM_TRA_1PNPDE20080613_031451_000000372069_00247_32866_0785.N1	13-JUN-2008 03:14:51	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	32866	No
39	GOM_TRA_1PNPDE20080613_031615_000000342069_00247_32866_0786.N1	13-JUN-2008 03:16:15	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	32866	No
40	GOM_TRA_1PNPDE20080613_032525_000000472069_00247_32866_0787.N1	13-JUN-2008 03:25:25	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32866	No
41	GOM_TRA_1PNPDE20080613_033139_000000432069_00247_32866_0944.N1	13-JUN-2008 03:31:39	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	32866	No
42	GOM_TRA_1PNPDE20080613_033758_000000392069_00247_32866_0945.N1	13-JUN-2008 03:37:58	Bright	39.000	73	57Gam1And	2.2600	13100.	78	32866	No
43	GOM_TRA_1PNPDE20080613_034018_000000532069_00247_32866_0946.N1	13-JUN-2008 03:40:18	Twilight	52.500	53	43Bet And	2.0480	3300.0	105	32866	No
44	GOM_TRA_1PNPDE20080613_034342_000000472069_00247_32866_0947.N1	13-JUN-2008 03:43:42	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	32866	No
45	GOM_TRA_1PNPDE20080613_035858_000000542069_00247_32866_0948.N1	13-JUN-2008 03:58:58	Dark	54.000	52	16Bet Cet	2.0370	4500.0	108	32866	No
46	GOM_TRA_1PNPDE20080613_040519_000000422069_00247_32866_0949.N1	13-JUN-2008 04:05:19	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	32866	No
47	GOM_TRA_1PNPDE20080613_041125_000000532069_00248_32867_0950.N1	13-JUN-2008 04:11:25	Dark	52.500	63	Bet Gru	2.1500	2800.0	105	32867	No
48	GOM_TRA_1PNPDE20080613_041328_000000482069_00248_32867_0951.N1	13-JUN-2008 04:13:28	Dark	48.000	31	Alp Gru	1.7340	15200.	96	32867	No
49	GOM_TRA_1PNPDE20080613_041510_000000572069_00248_32867_0952.N1	13-JUN-2008 04:15:10	Straylight	57.000	172	Gam Gru	3.0030	13100.	114	32867	No
50	GOM_TRA_1PNPDE20080613_041731_000000412069_00248_32867_0953.N1	13-JUN-2008 04:17:31	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32867	No

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



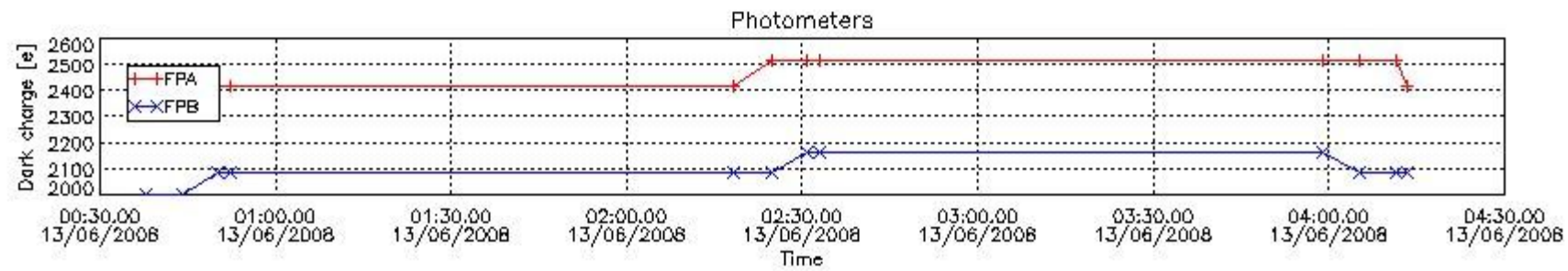
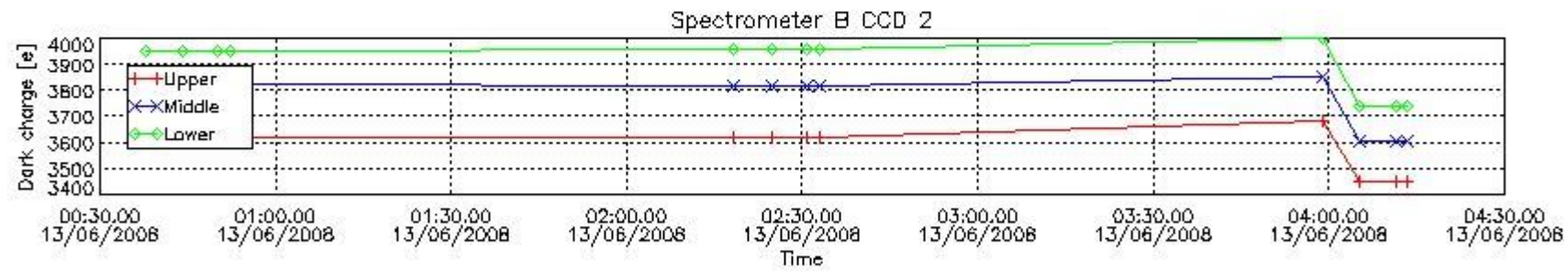
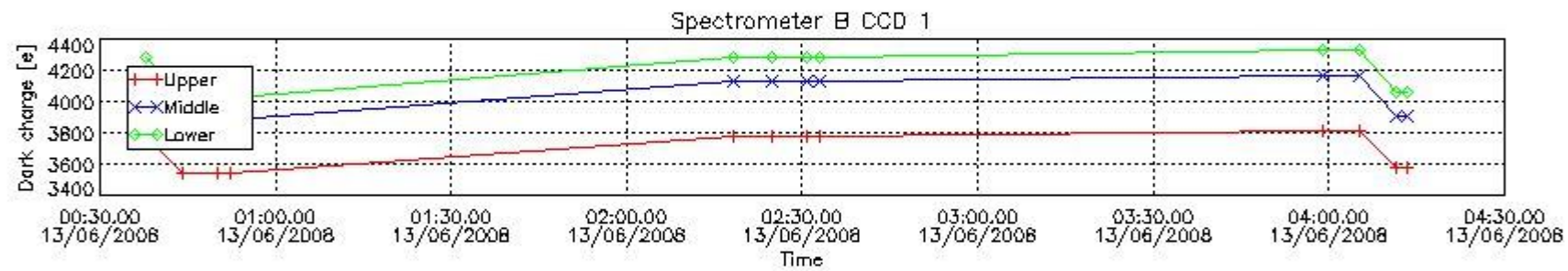
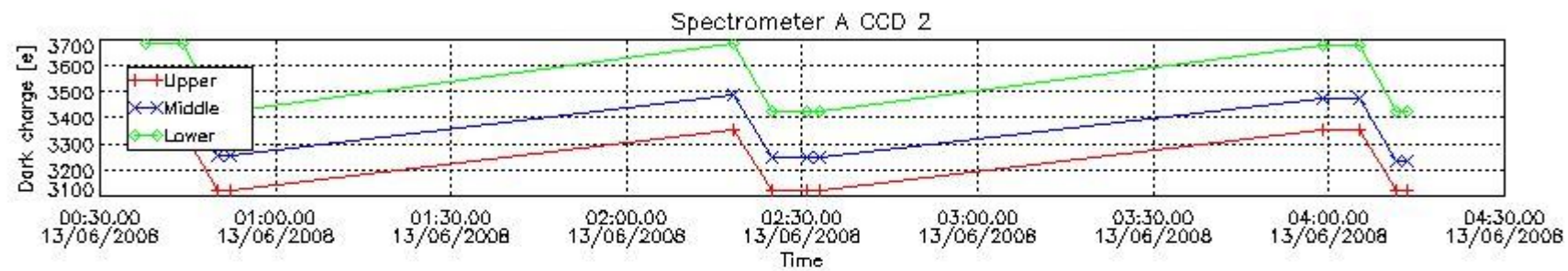
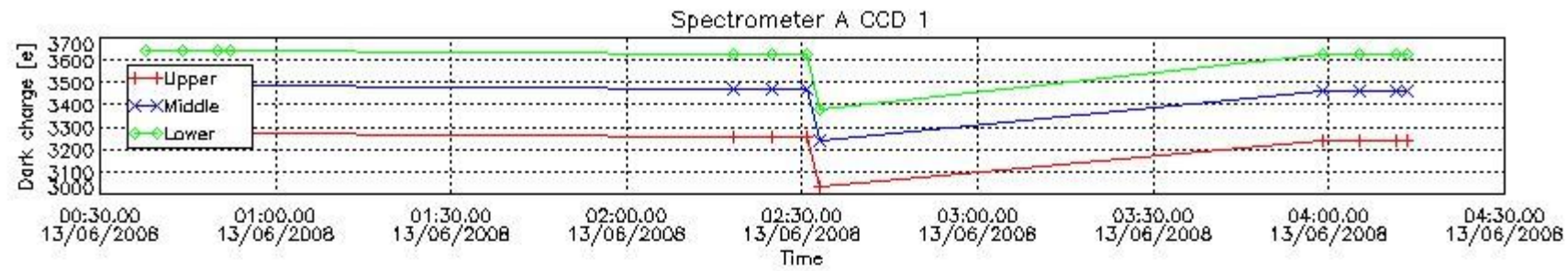
4. Overview of dark signal processing per product

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



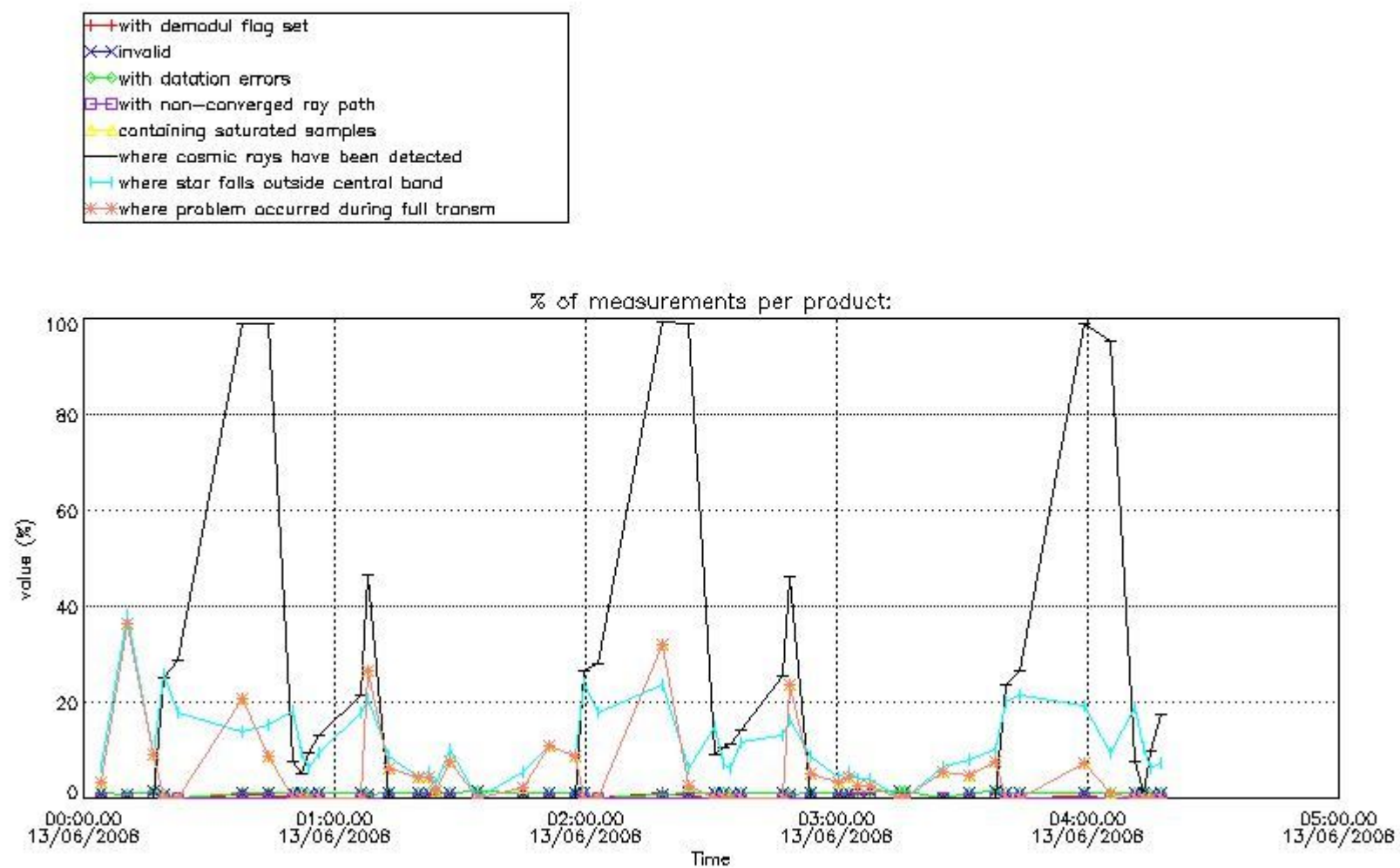
5. Demodulation flag and quality information monitoring

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.

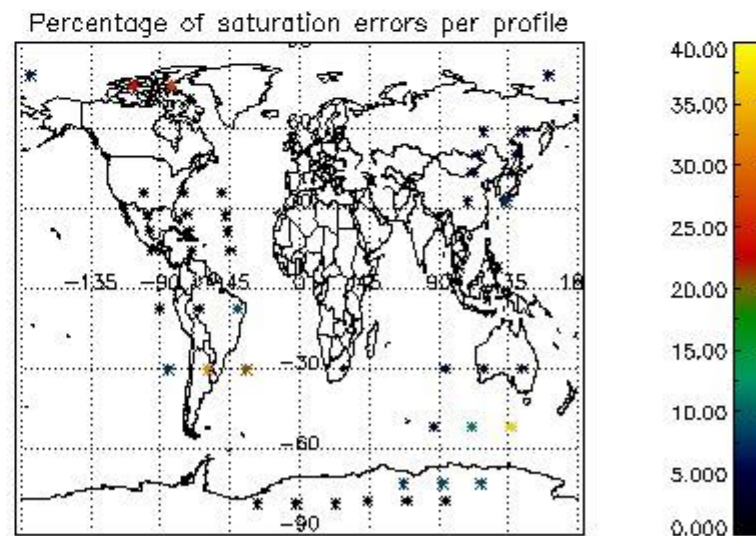
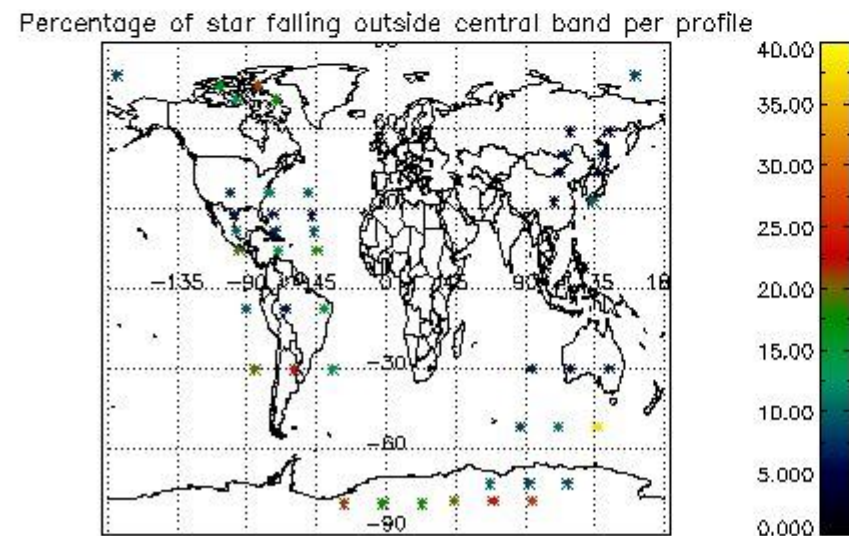
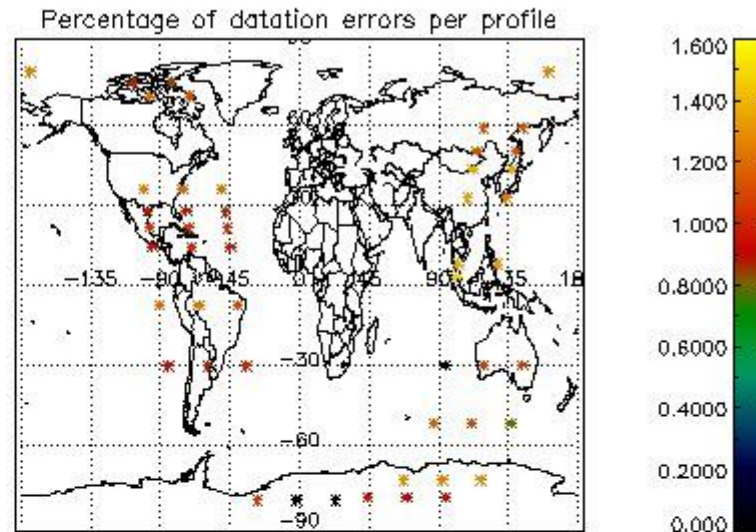
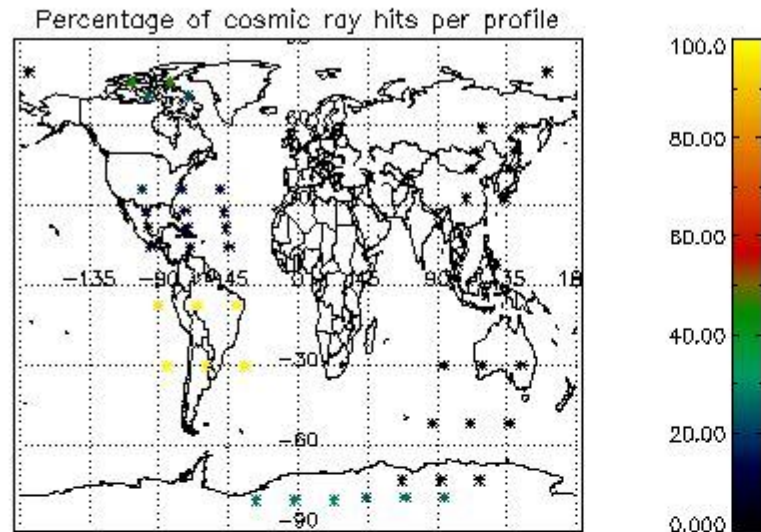
5.1 Percentage of products during reporting period with:

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

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



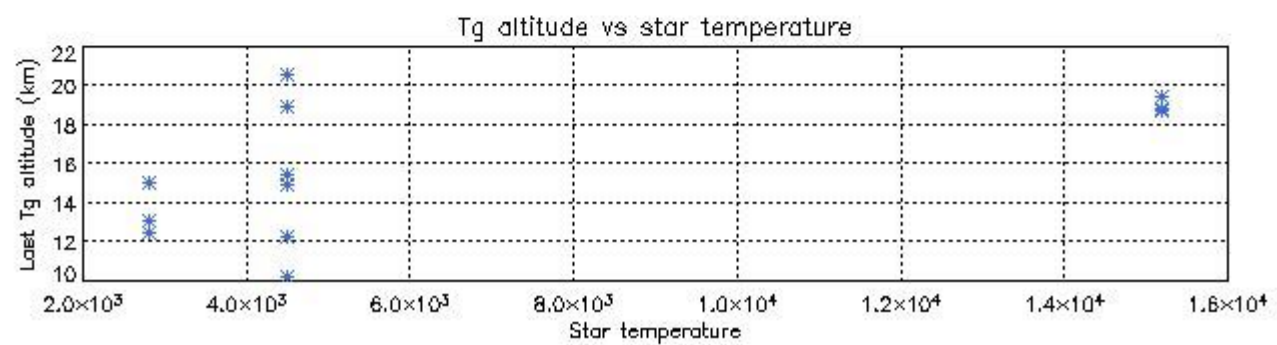
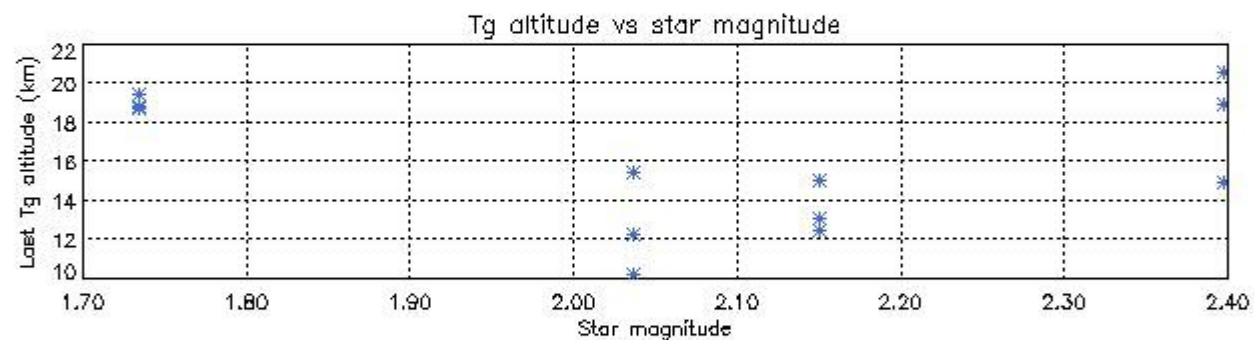
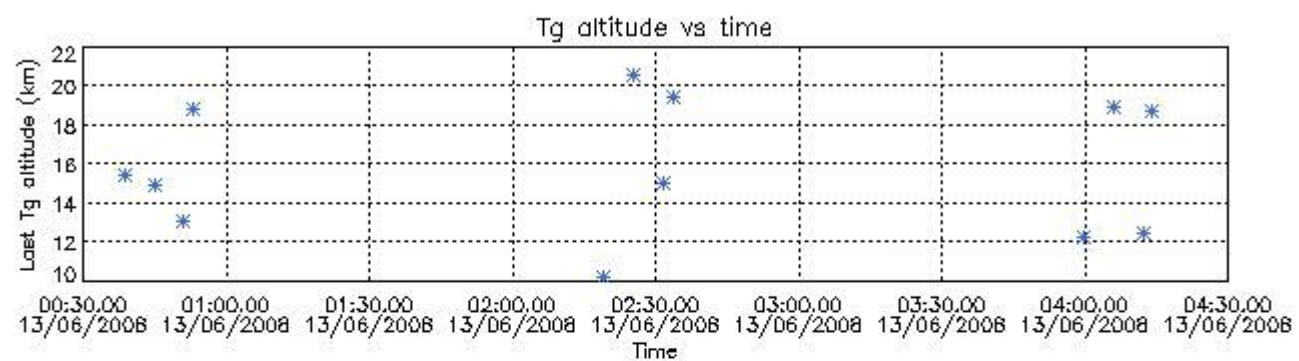
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.828	20.284	11.912
St. deviation:	3.3994	5.1053	1.1616
Maximum:	20.561	28.451	12.960
Minimum:	10.185	3.7581	10.663
Number of data:	12.000	24.000	3.0000

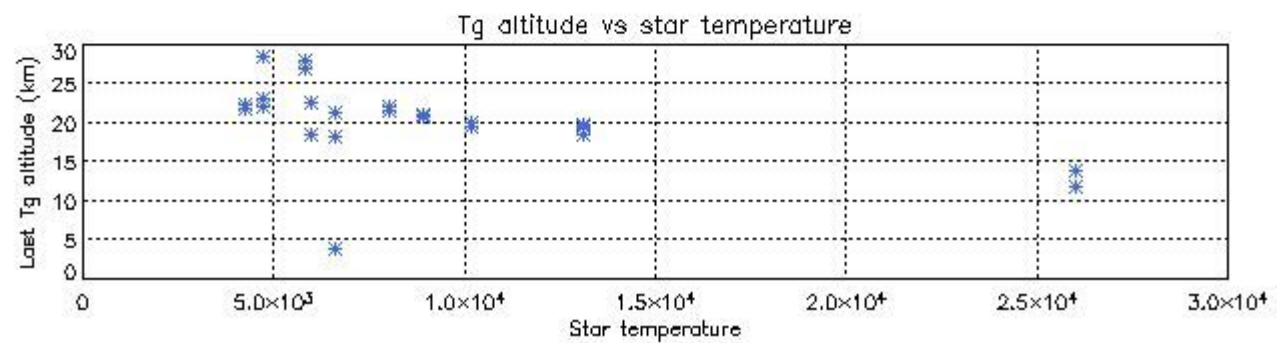
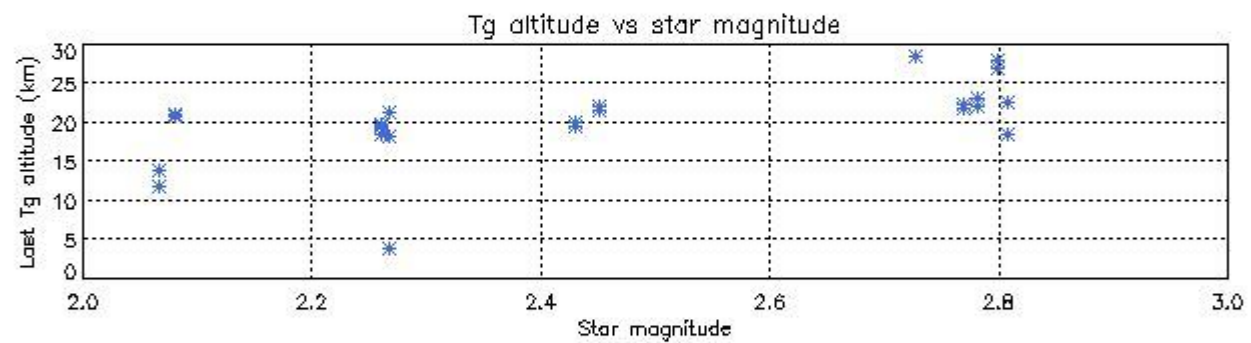
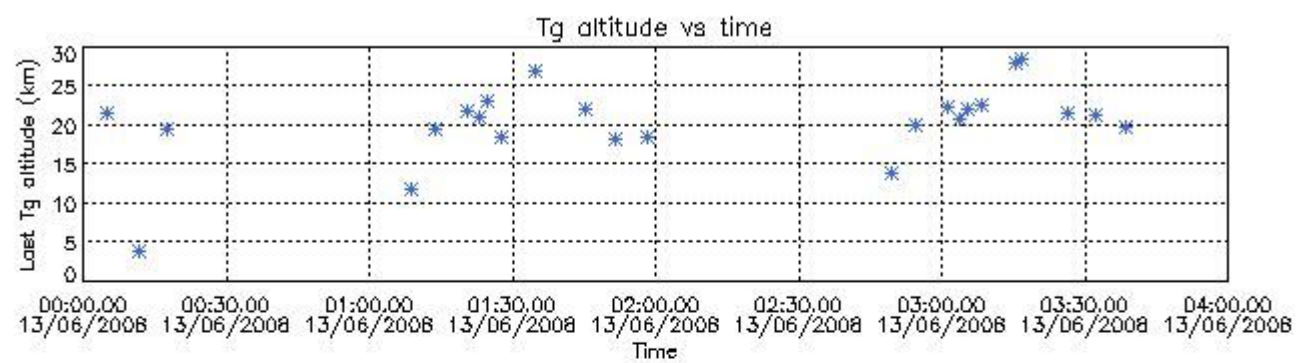
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



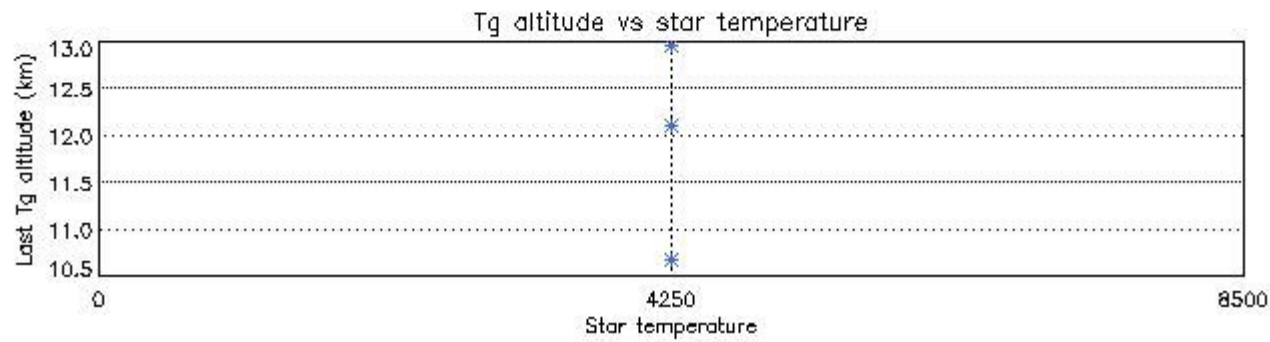
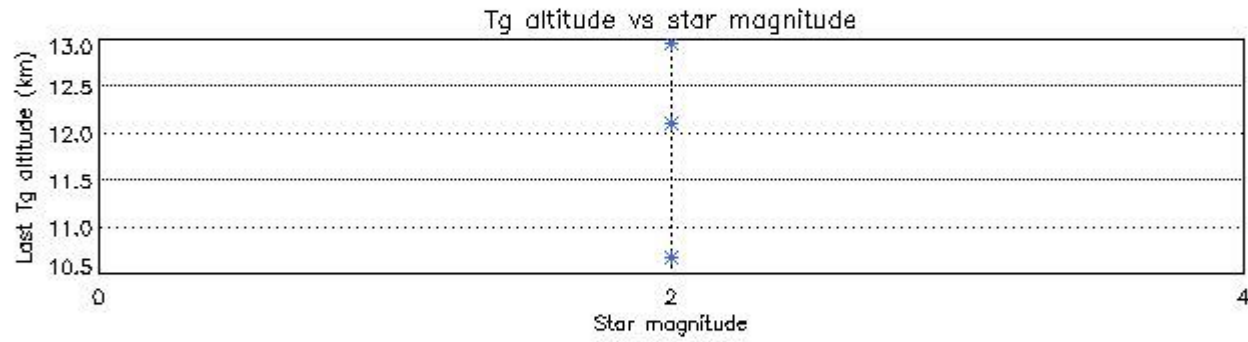
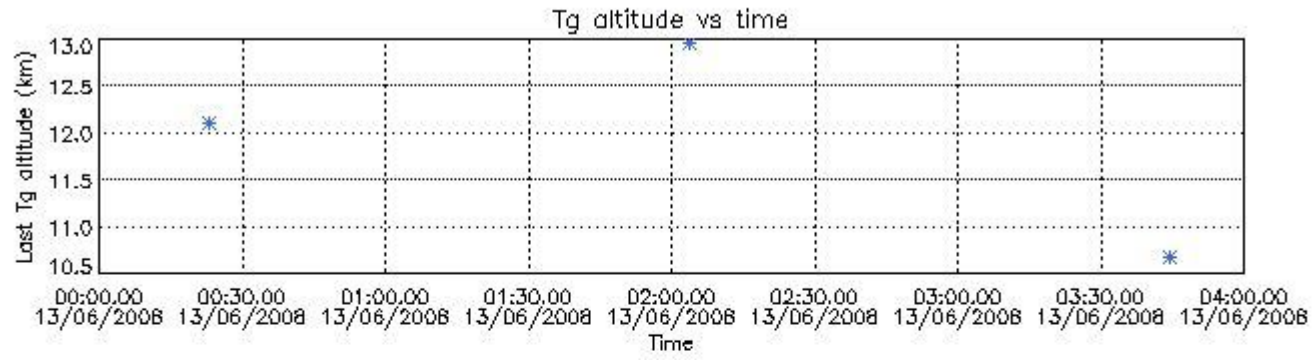
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

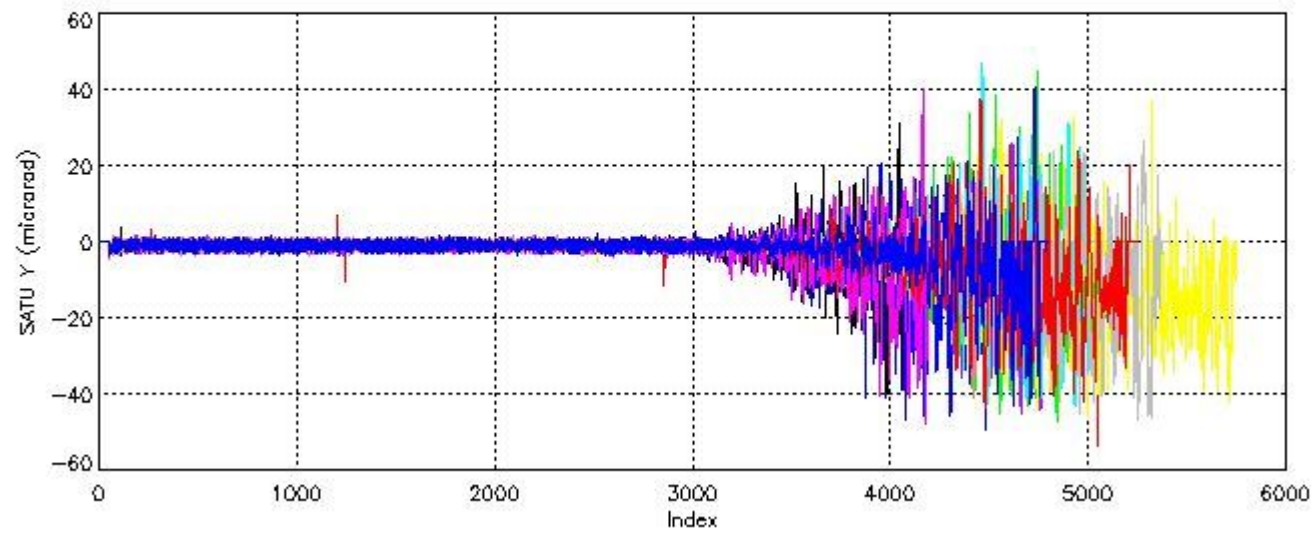
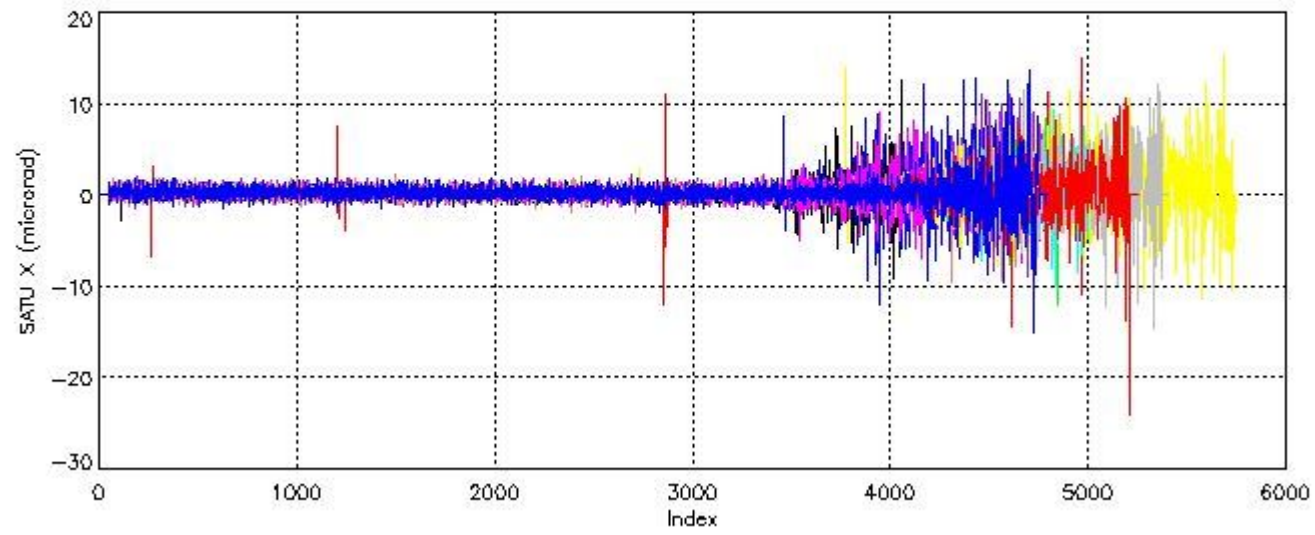


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28869	-1.2025	0.27295	-1.2166
St. deviation:	0.36234	0.71605	0.75713	1.2078
Maximum:	3.2000	3.9000	4.4000	3.1000
Minimum:	-6.8000	-4.6000	-3.5000	-6.0000

Number of data:	13300.	13300.	23600.	23600.
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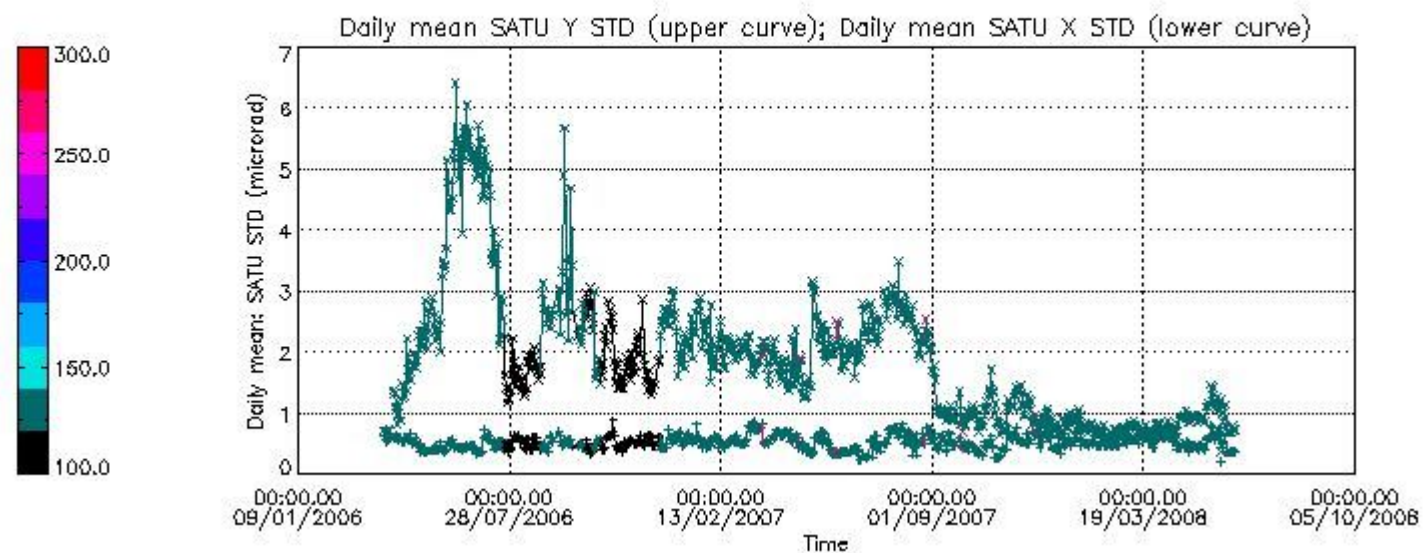
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

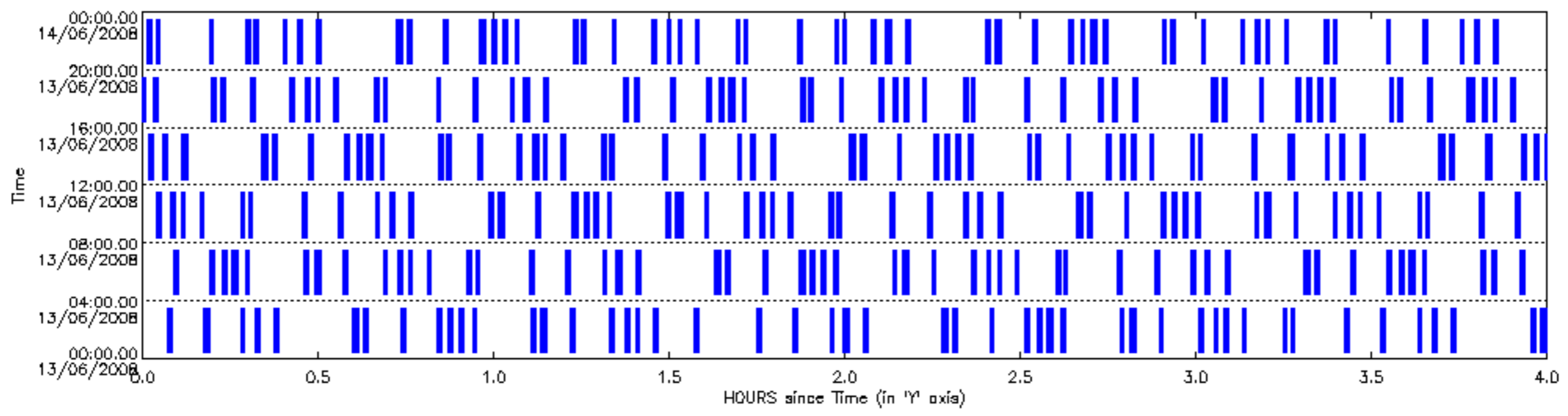
Lower curve: STD of SATU X axis

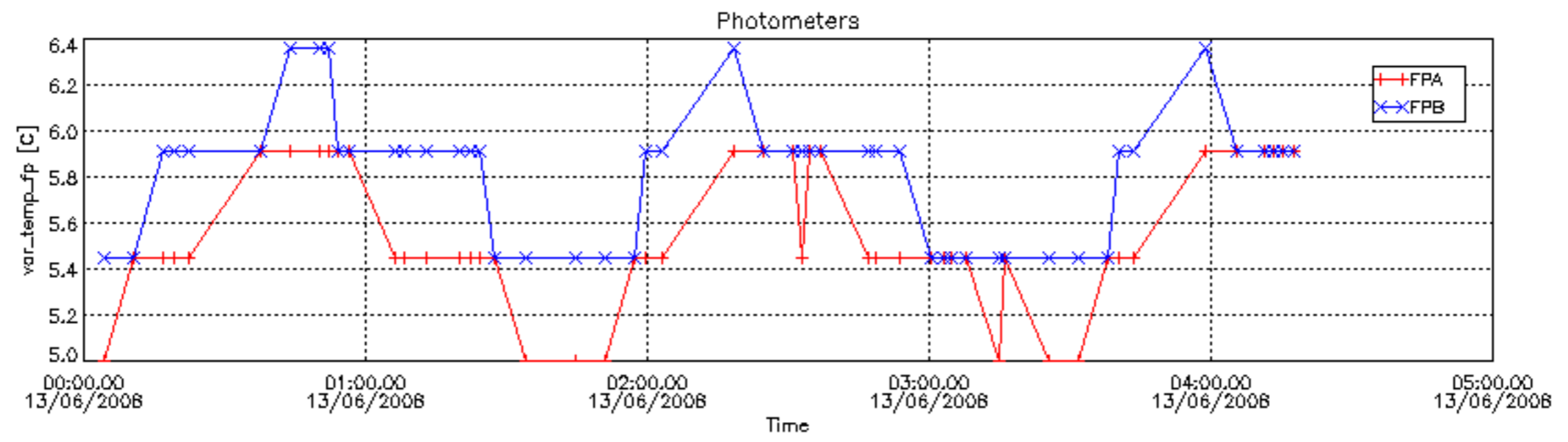
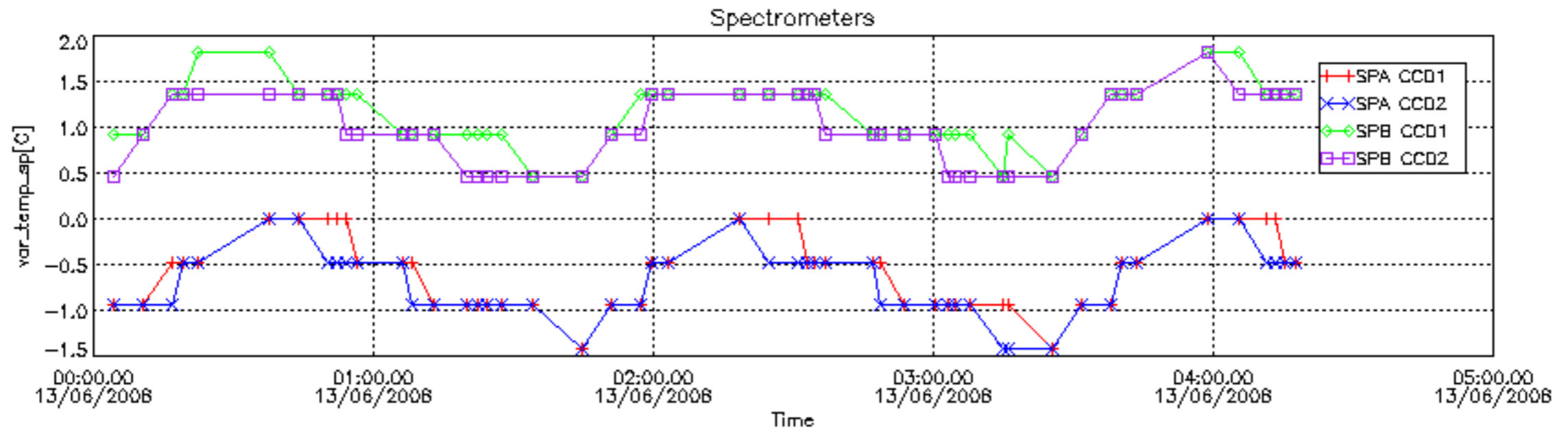


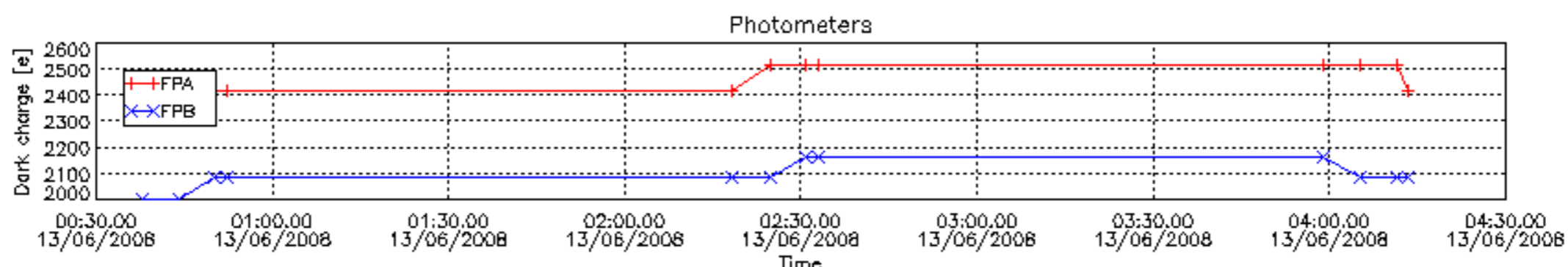
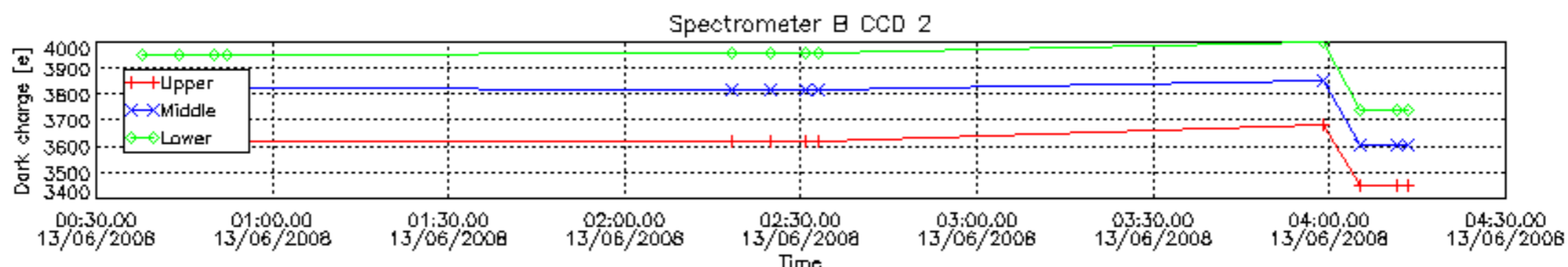
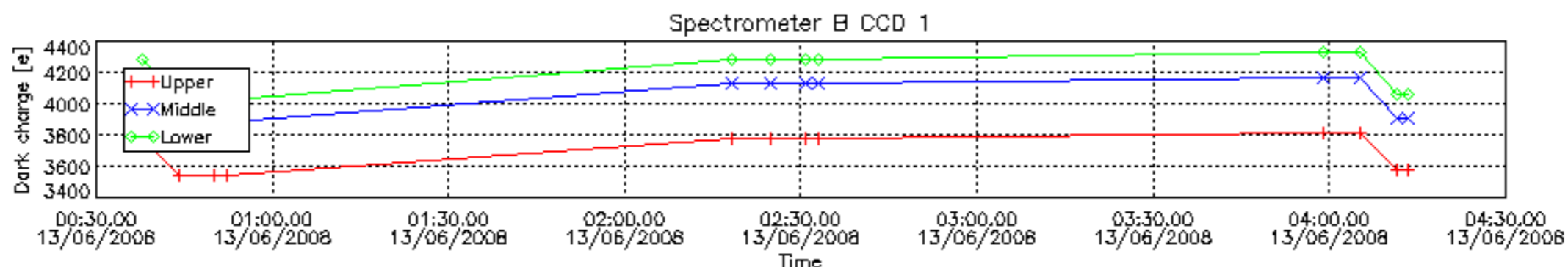
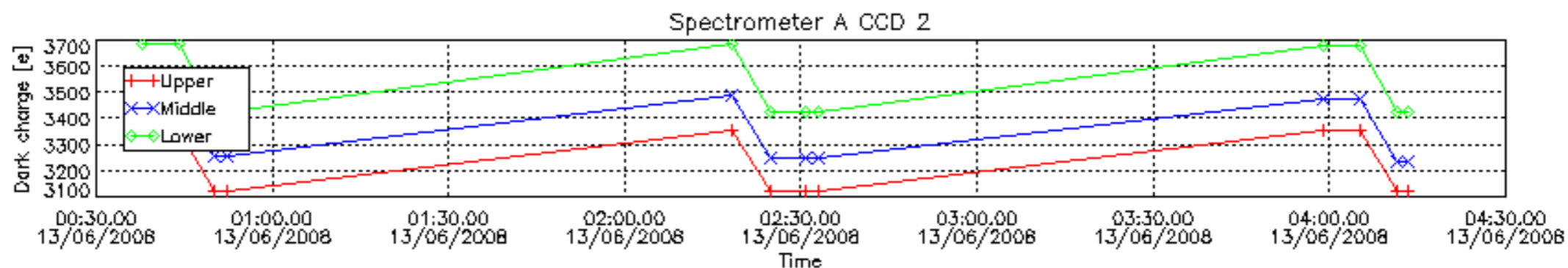
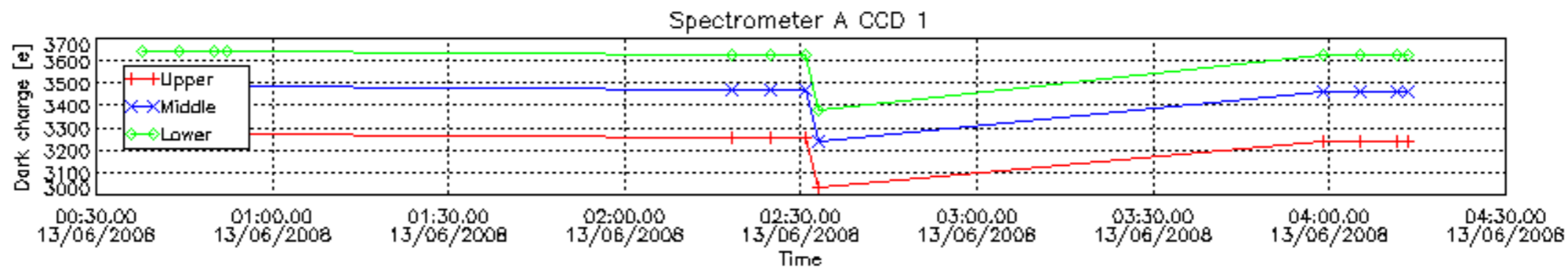
8. Auxiliary Data Files used for the production reported in section 2.4

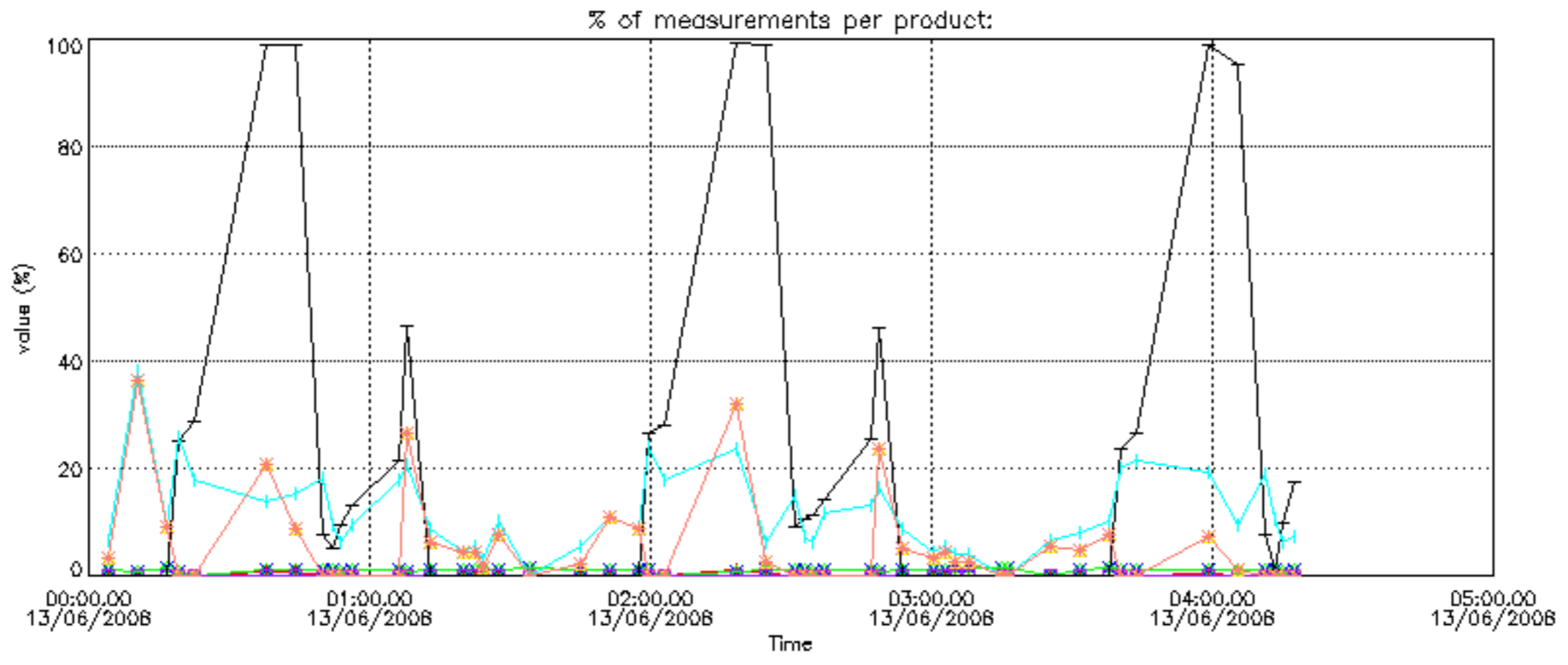
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-JUN-2008 00:04:15
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080609_083139_20080607_000000_20100101_000000	1	13-JUN-2008 00:04:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-JUN-2008 00:04:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JUN-2008 00:04:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-JUN-2008 00:04:15
ECMWF_FILE	AUX_ECF_AXNECM20080612_072113_20080612_210000_20080613_090000	1	13-JUN-2008 00:04:15
ECMWF_FILE	AUX_ECF_AXNECM20080612_192112_20080613_030000_20080613_150000	41	13-JUN-2008 03:31:39
OPTIONAL_ECMWF_FILE	MISSING	1	13-JUN-2008 00:04:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080612_210255_000060572069_00243_32862_5724.N1	1	13-JUN-2008 00:04:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080612_224911_000057382069_00244_32863_5725.N1	6	13-JUN-2008 00:37:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080613_020546_000044632069_00246_32865_5727.N1	25	13-JUN-2008 02:18:21

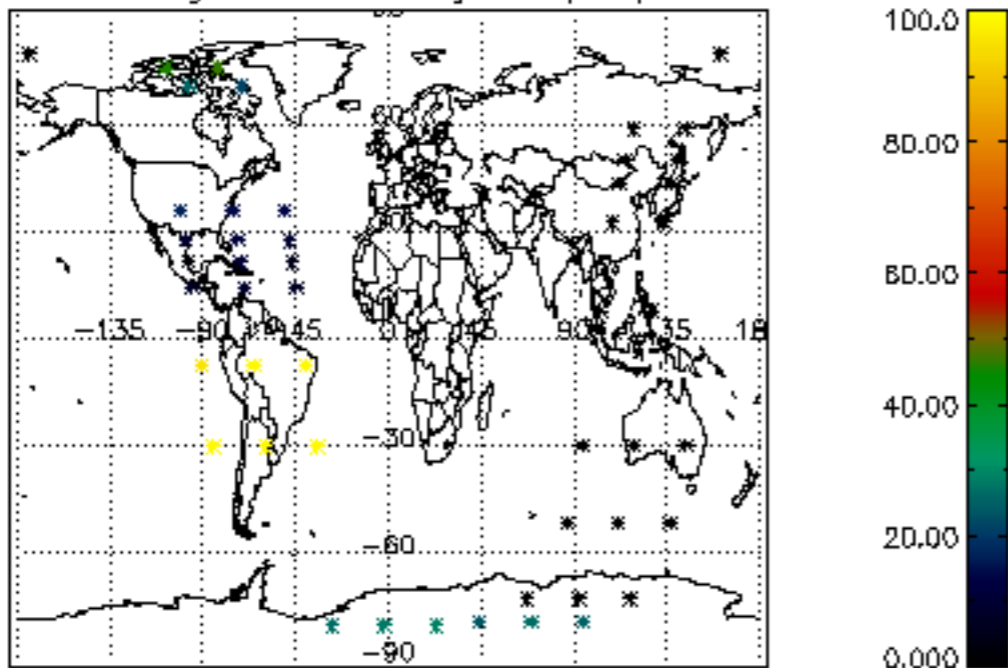




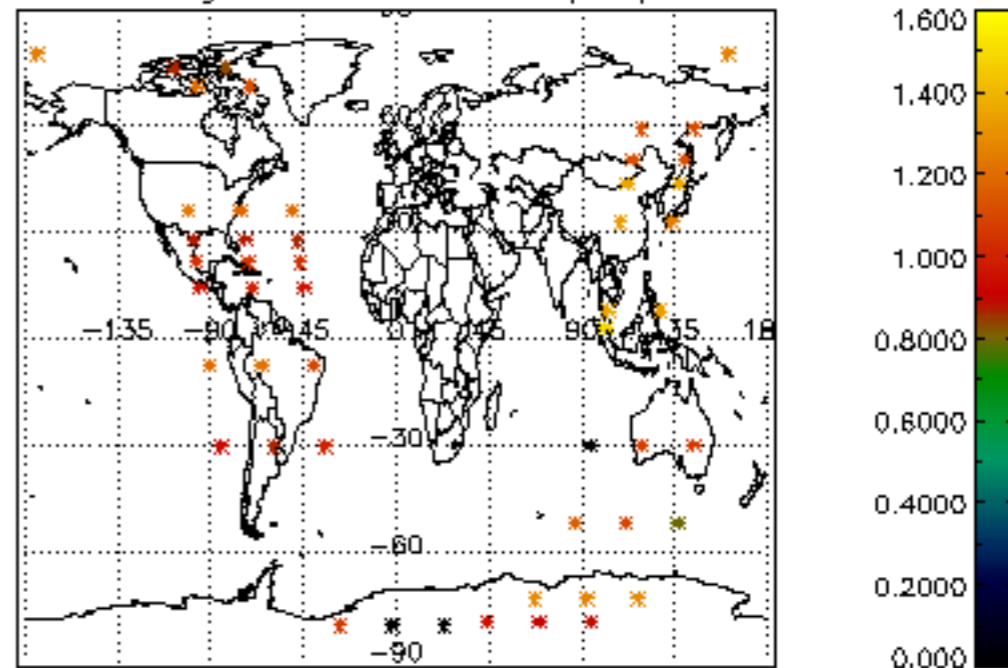




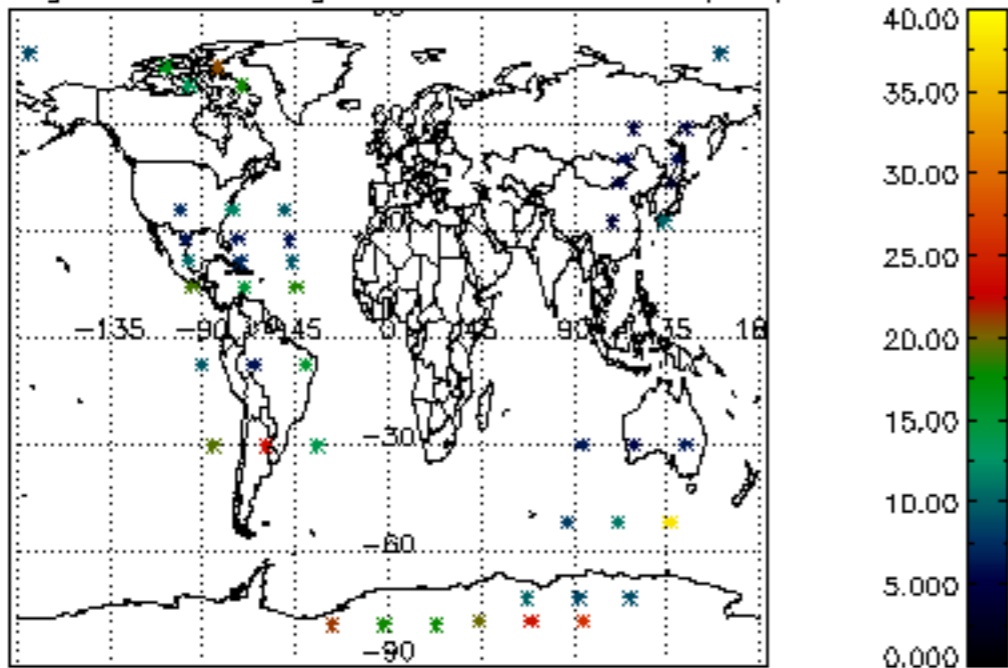
Percentage of cosmic ray hits per profile



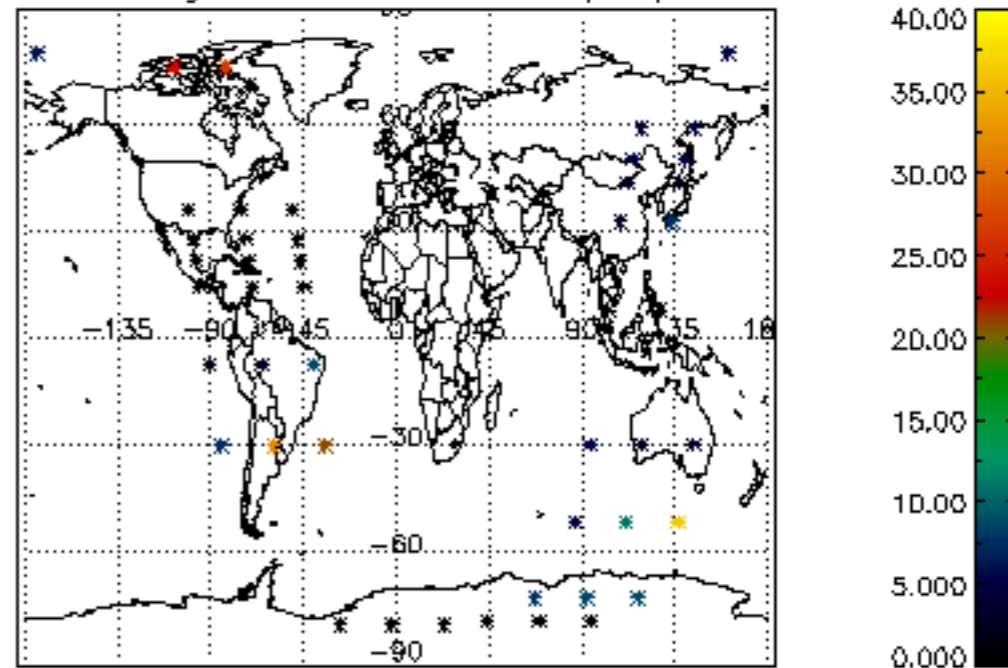
Percentage of datation errors per profile



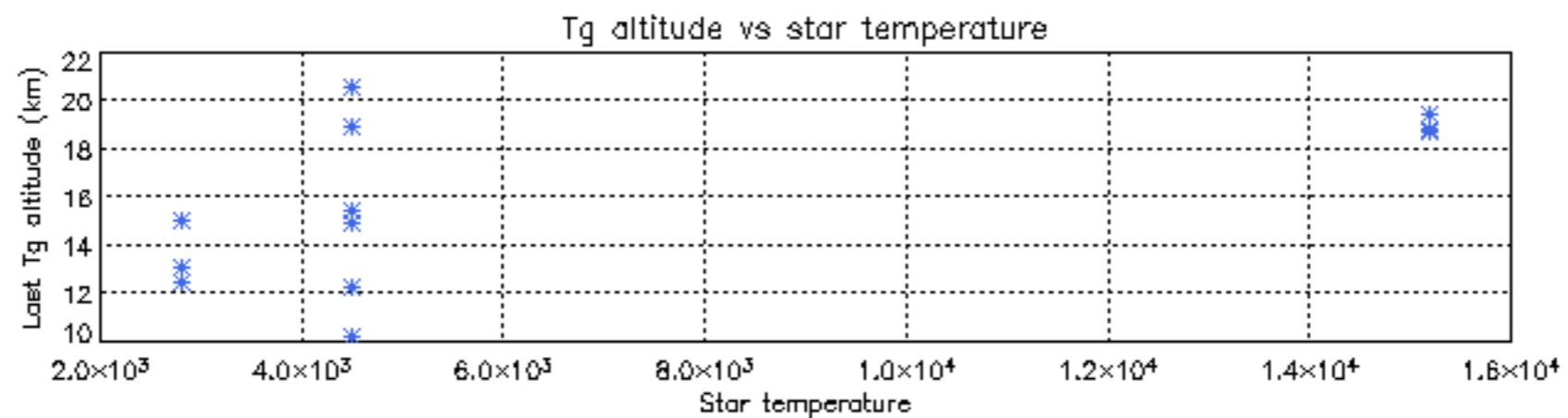
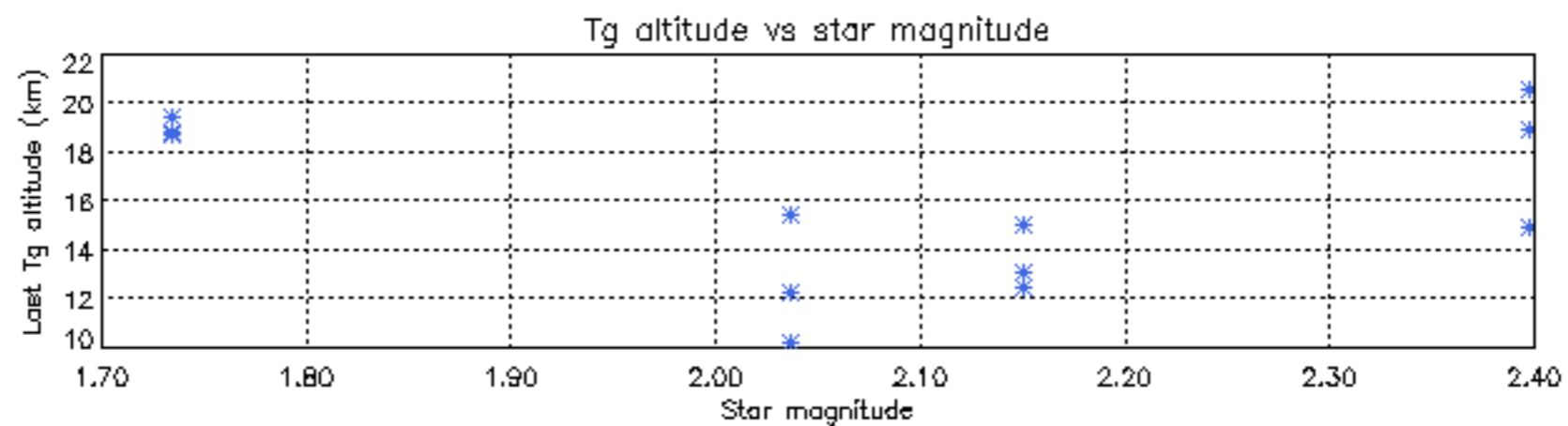
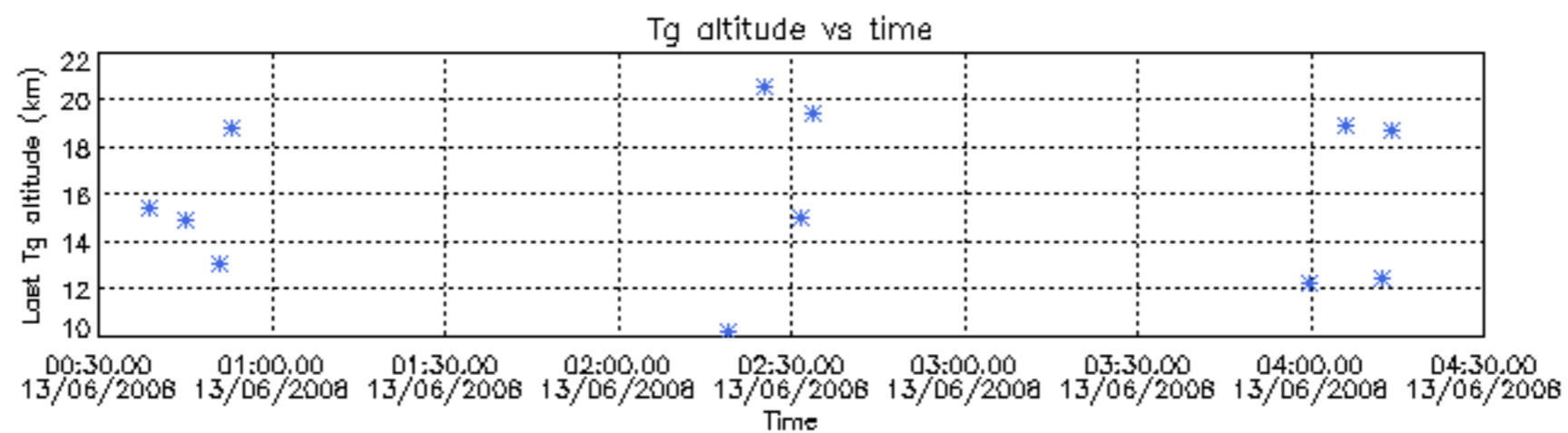
Percentage of star falling outside central band per profile



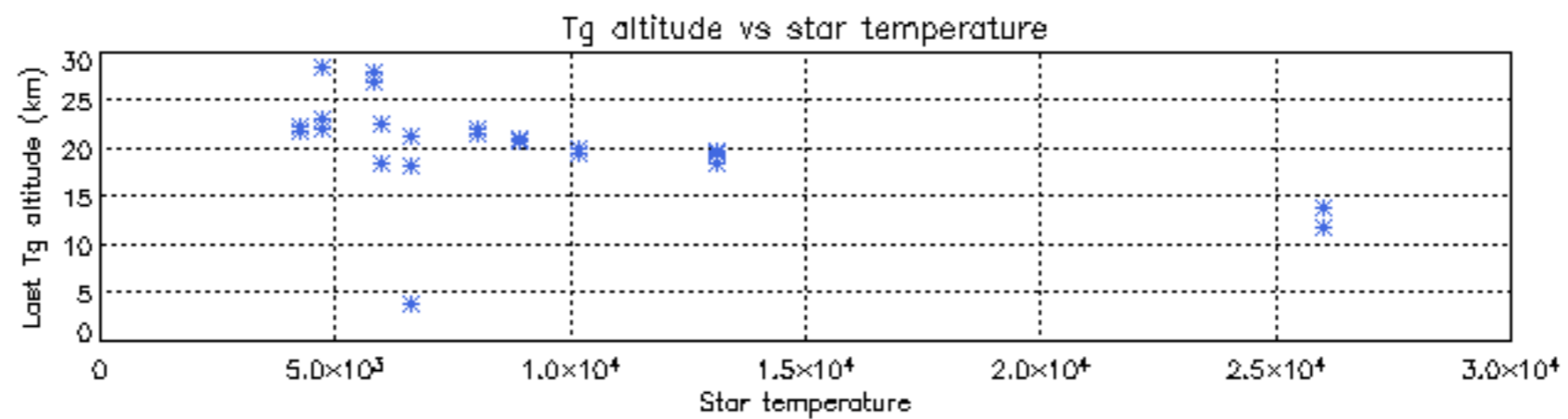
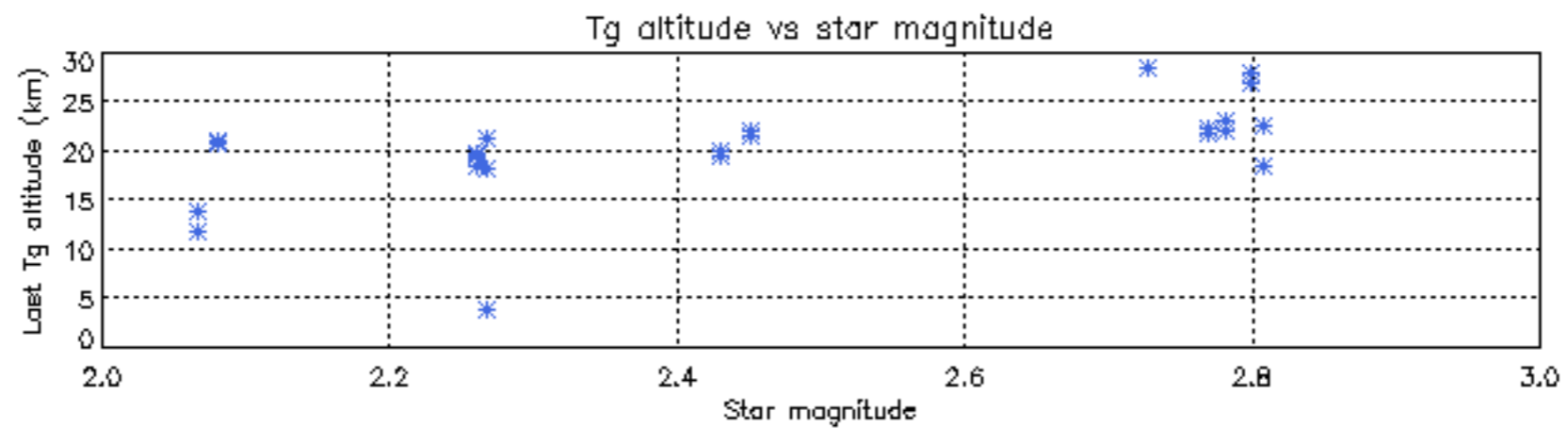
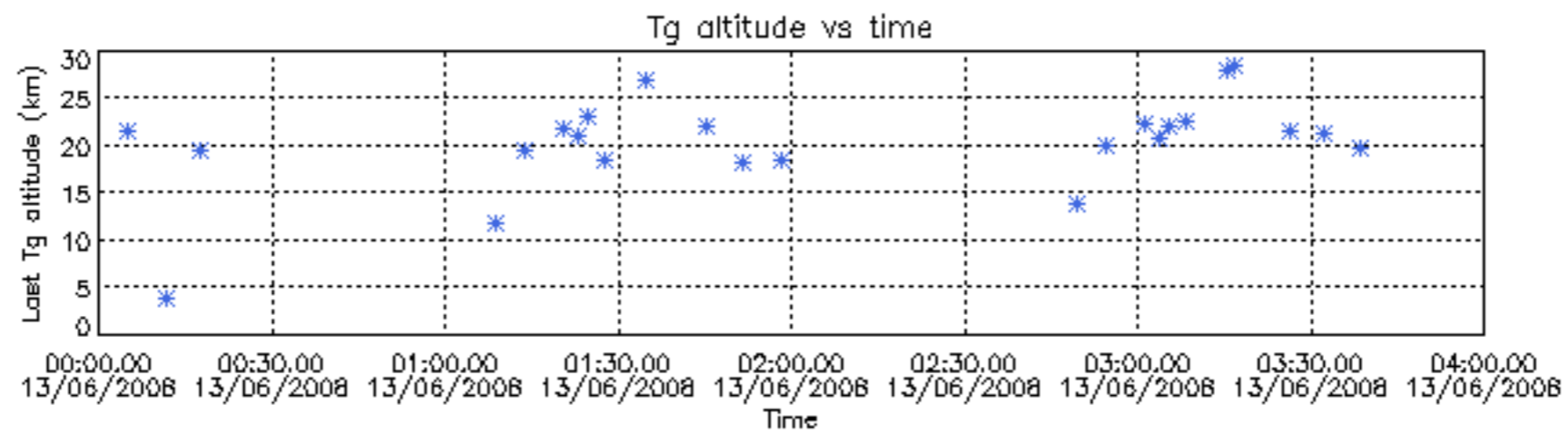
Percentage of saturation errors per profile



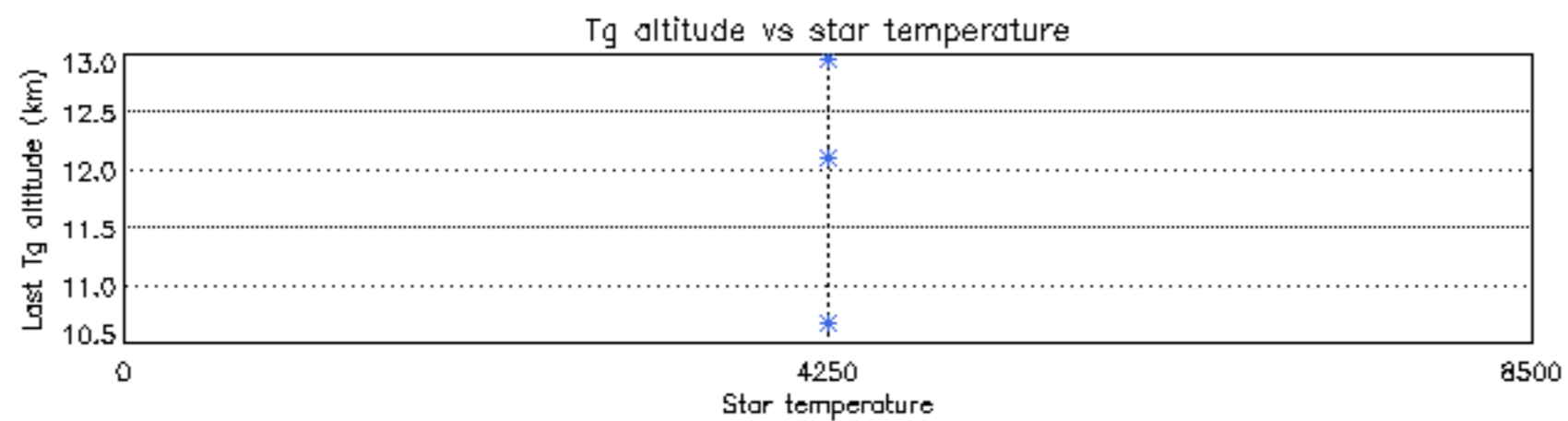
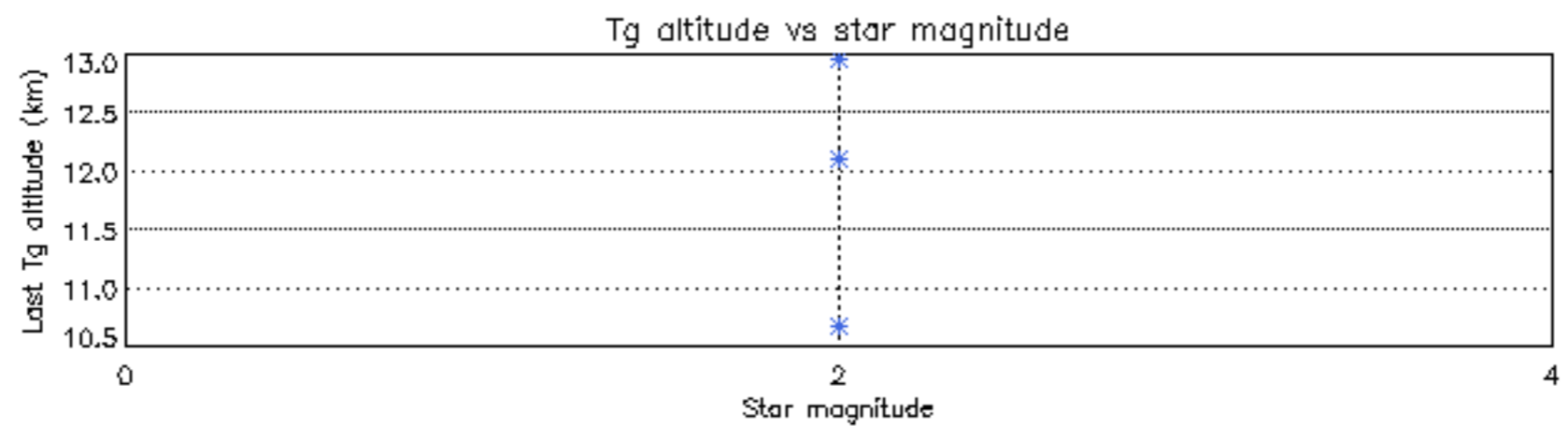
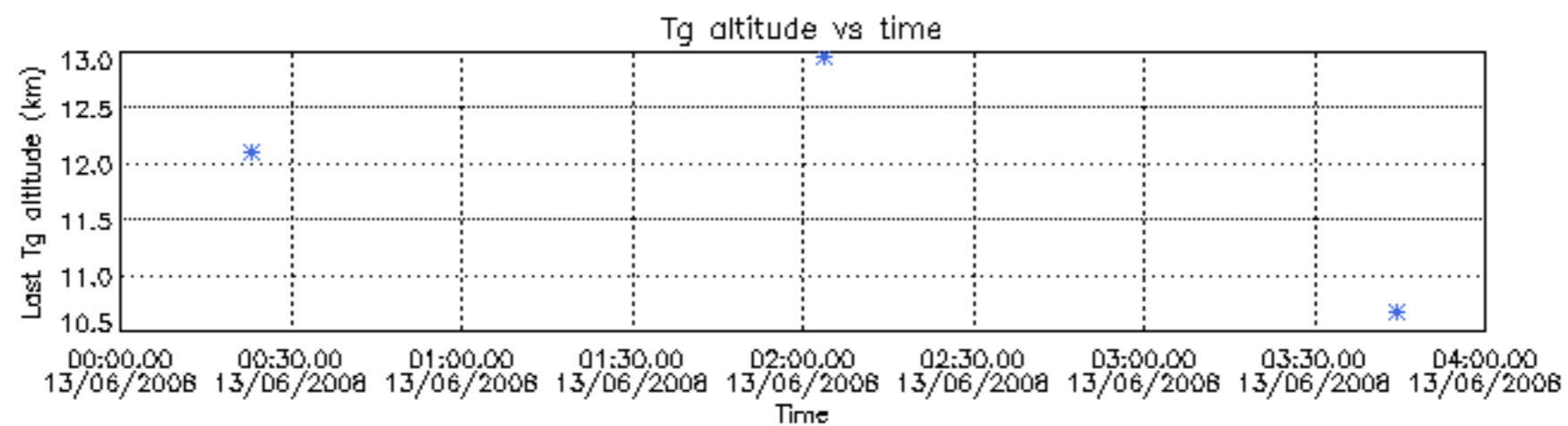
Tangent altitude at which the star is lost

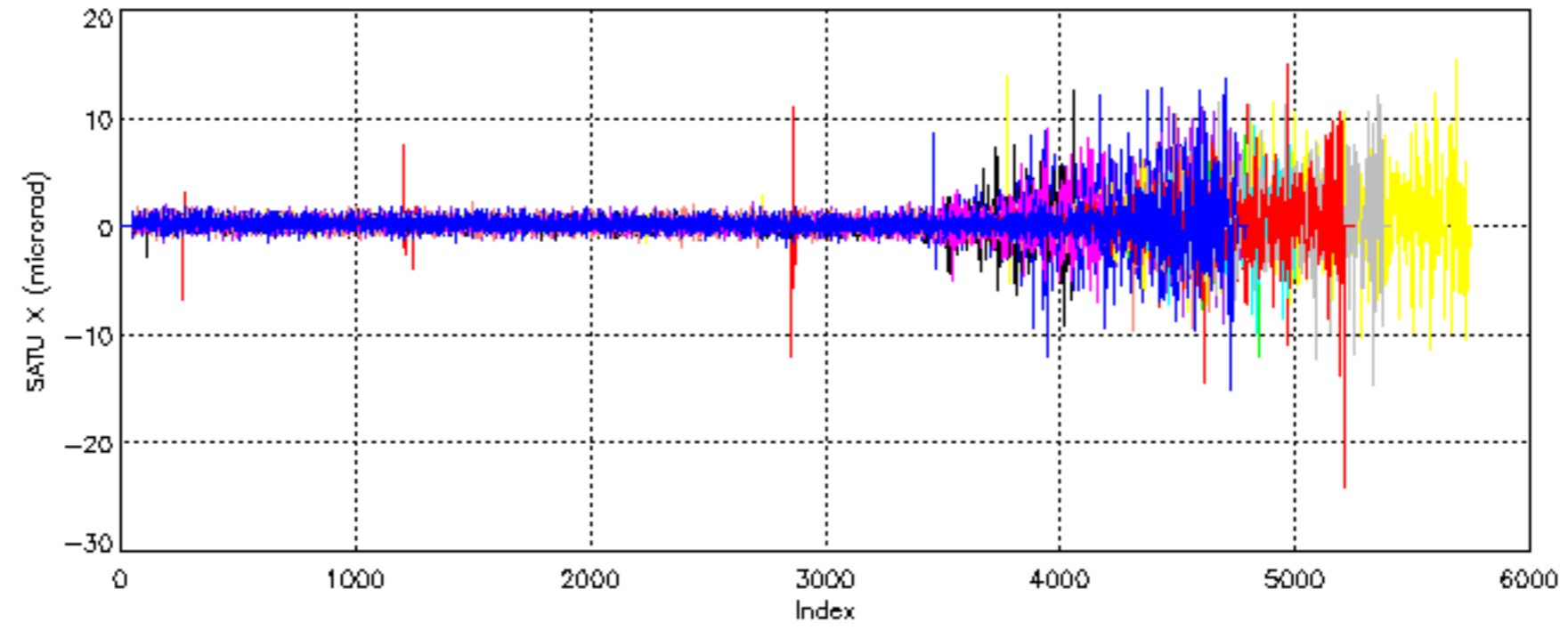


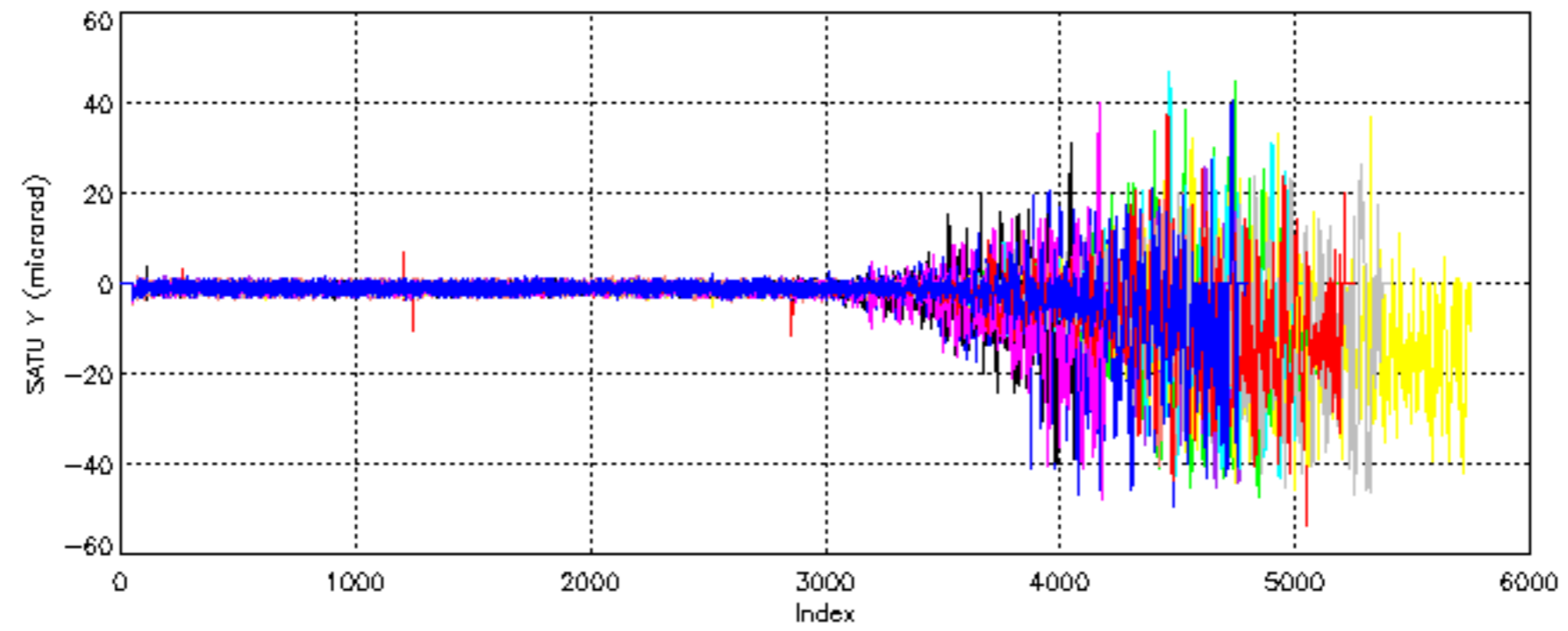
Tangent altitude at which the star is lost

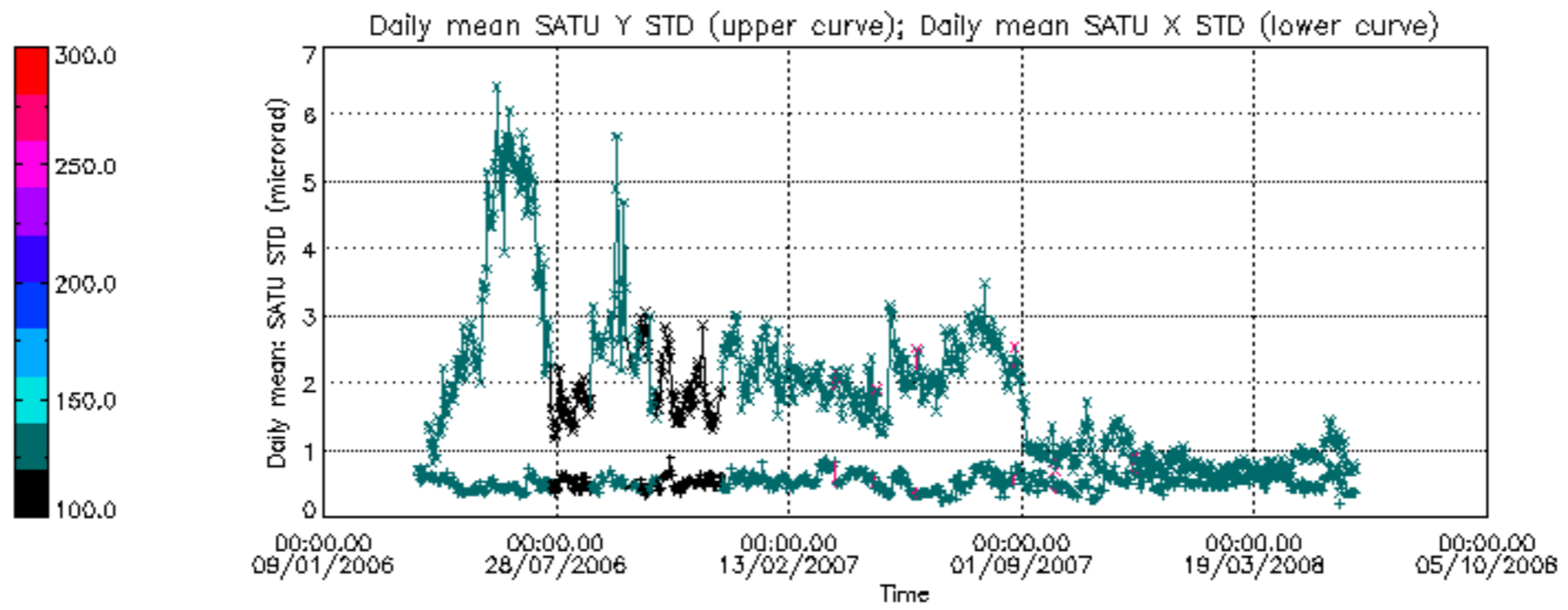


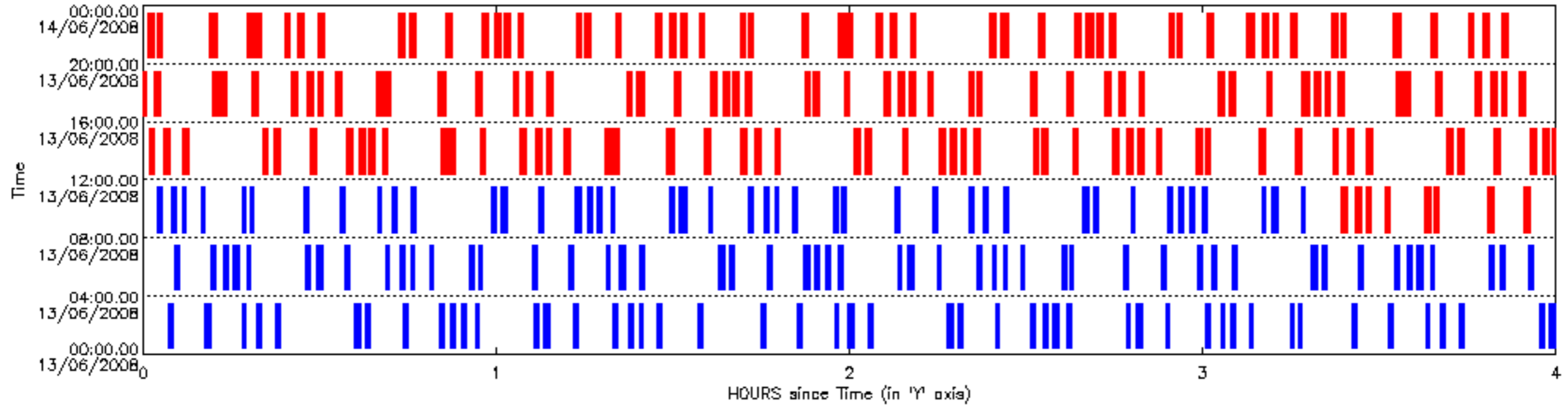
Tangent altitude at which the star is lost

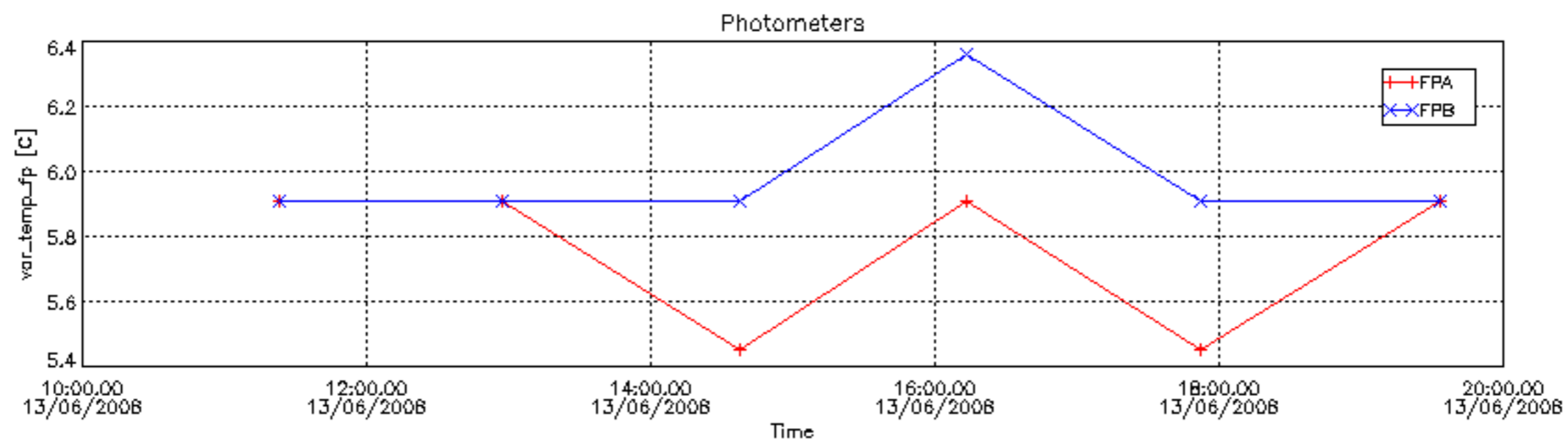
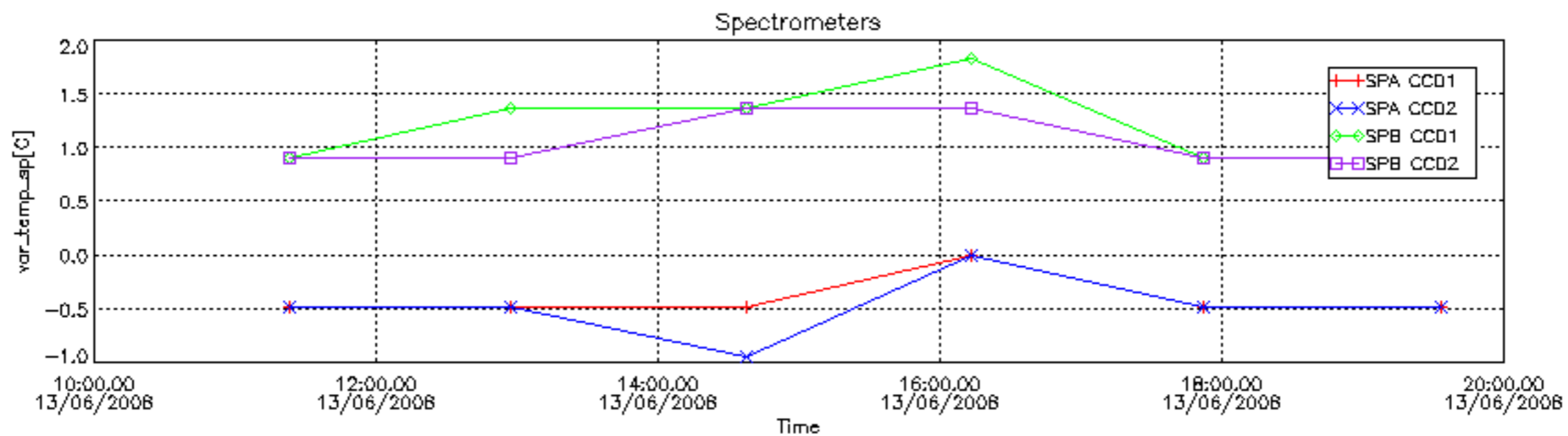


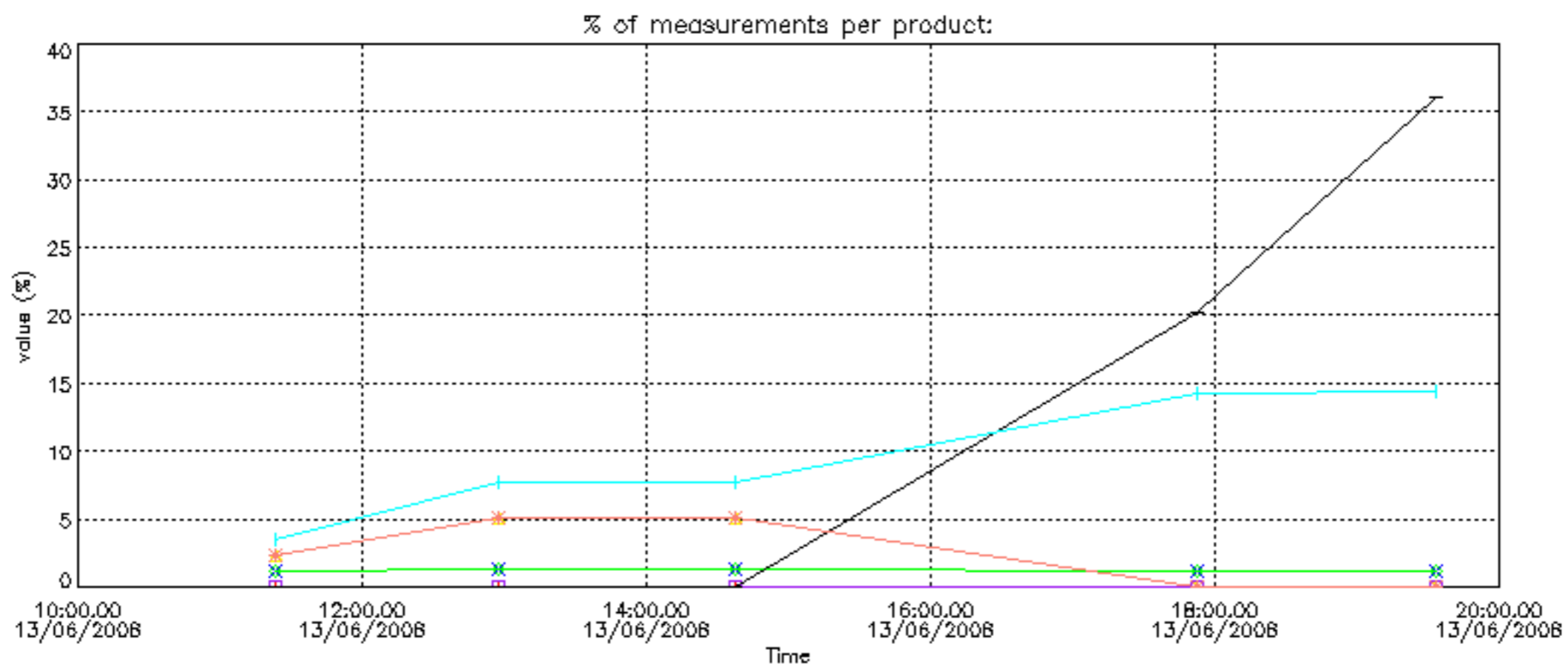
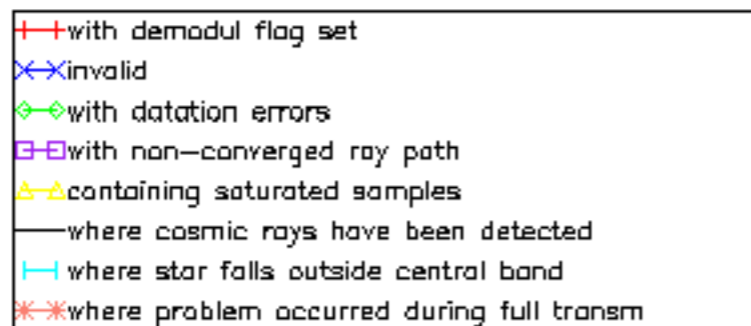




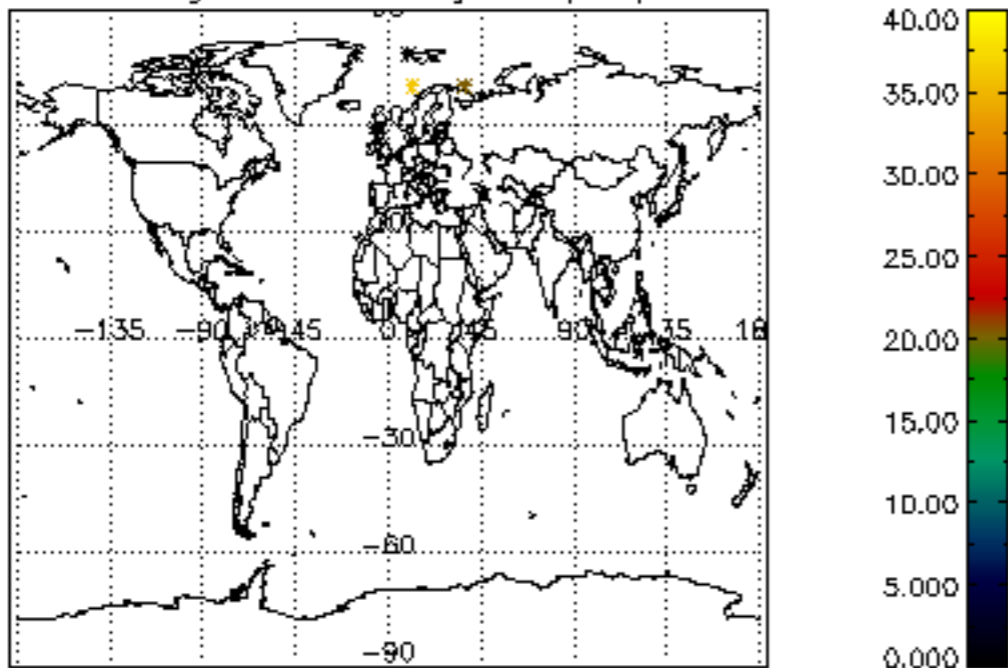




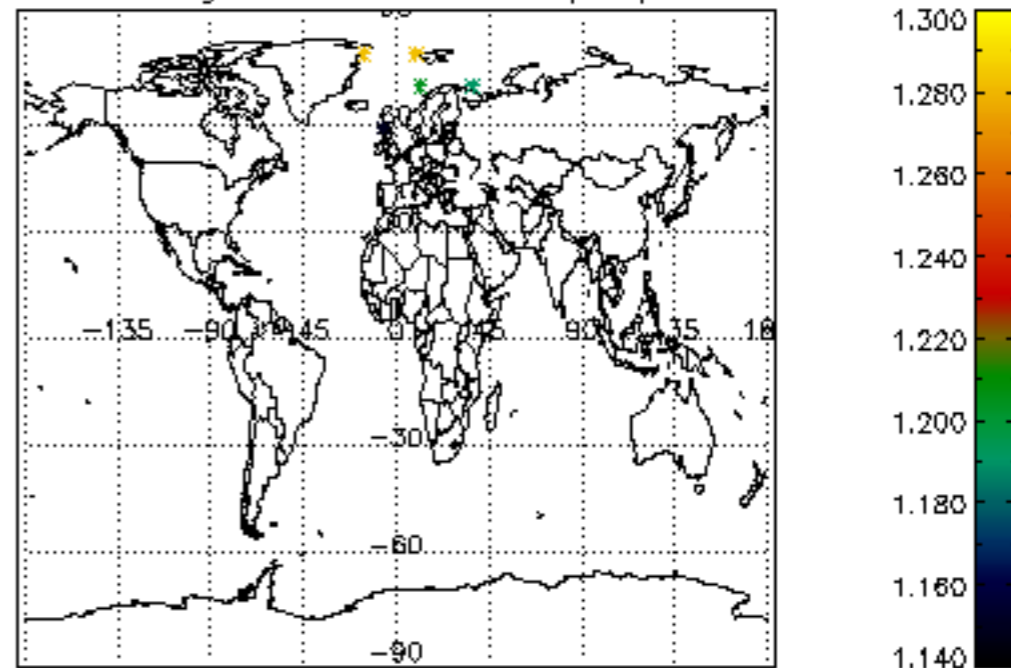




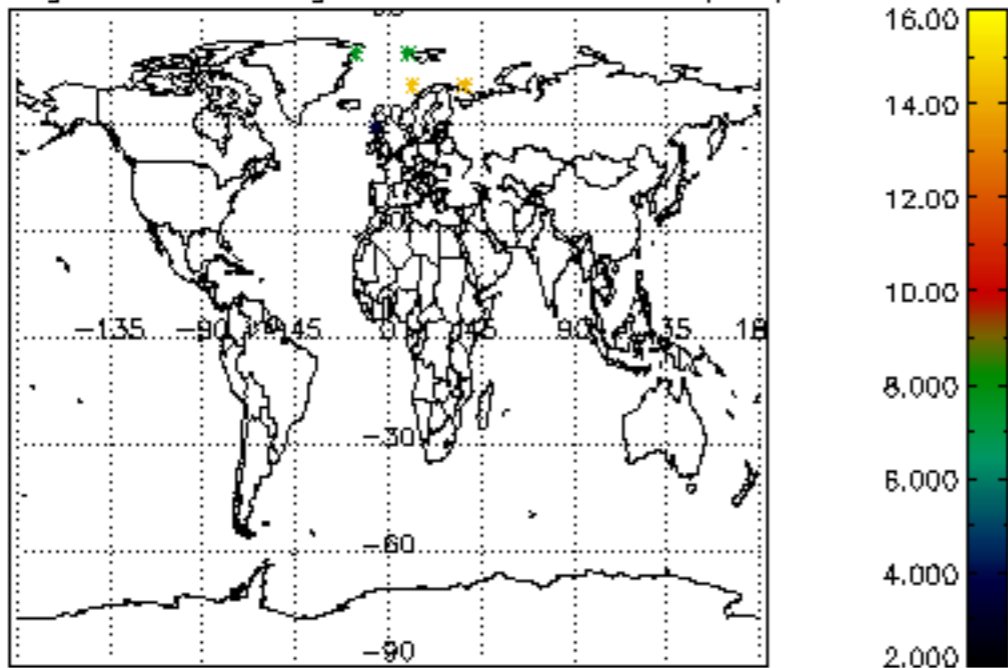
Percentage of cosmic ray hits per profile



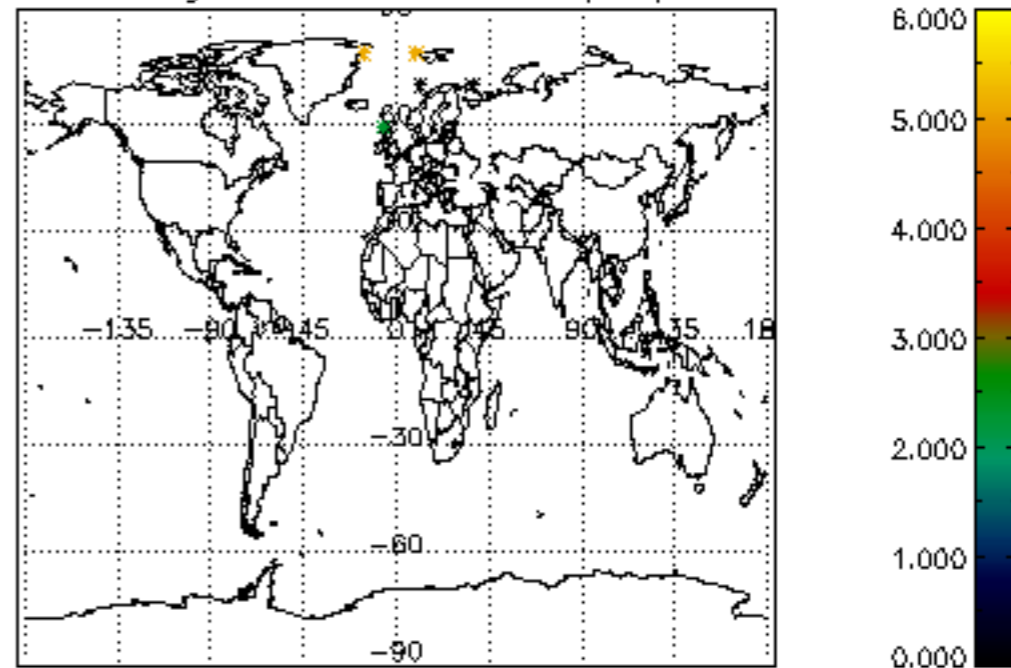
Percentage of datation errors per profile



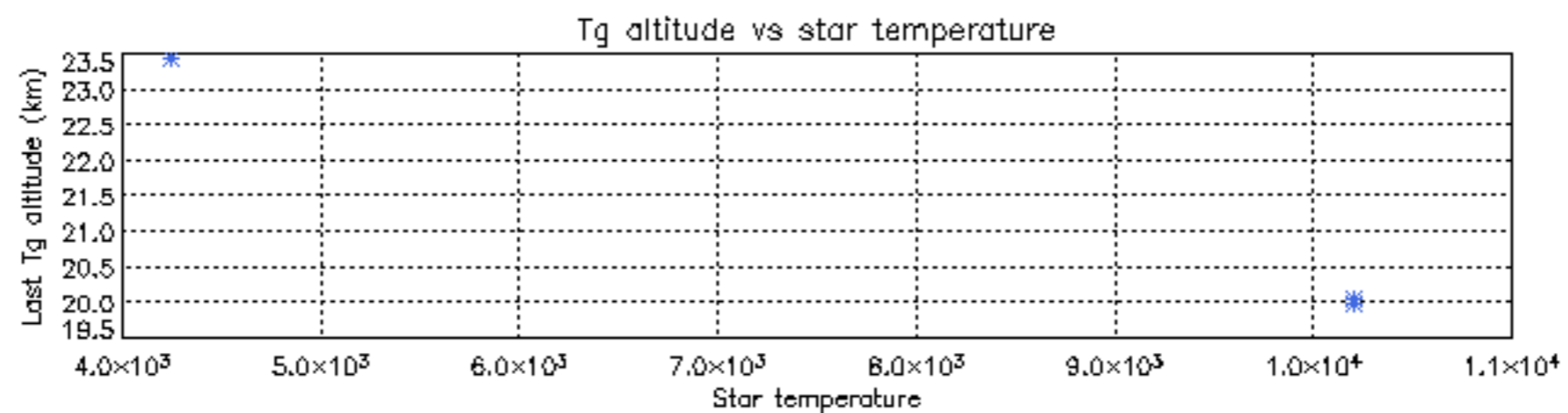
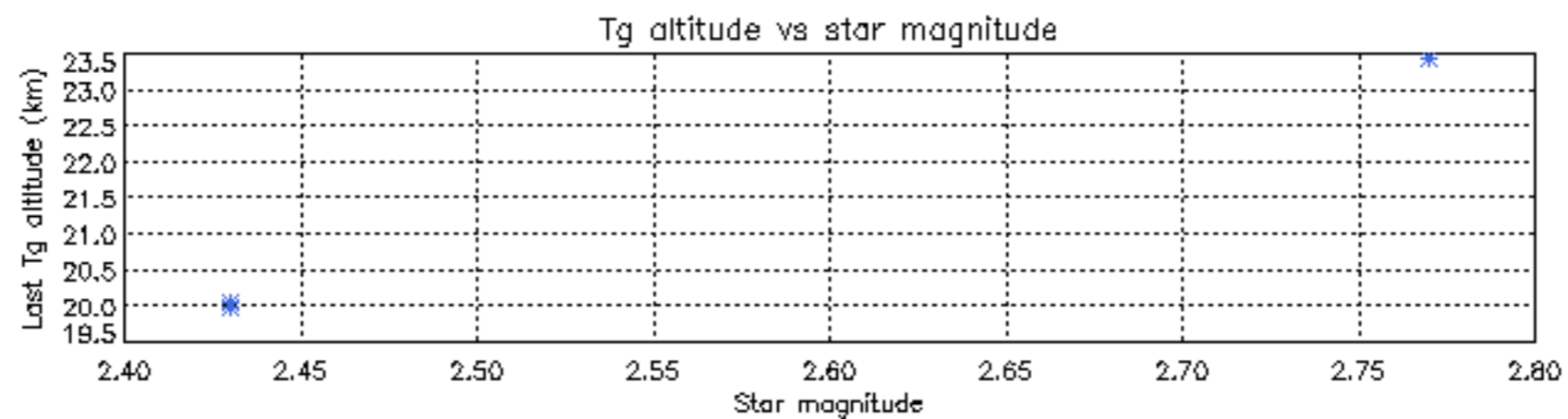
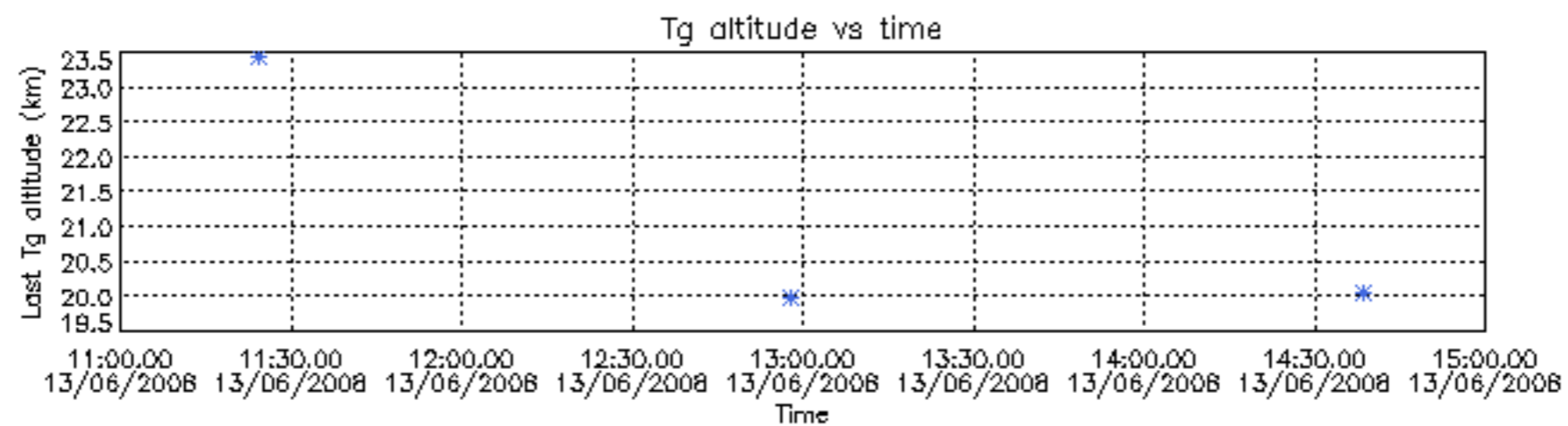
Percentage of star falling outside central band per profile

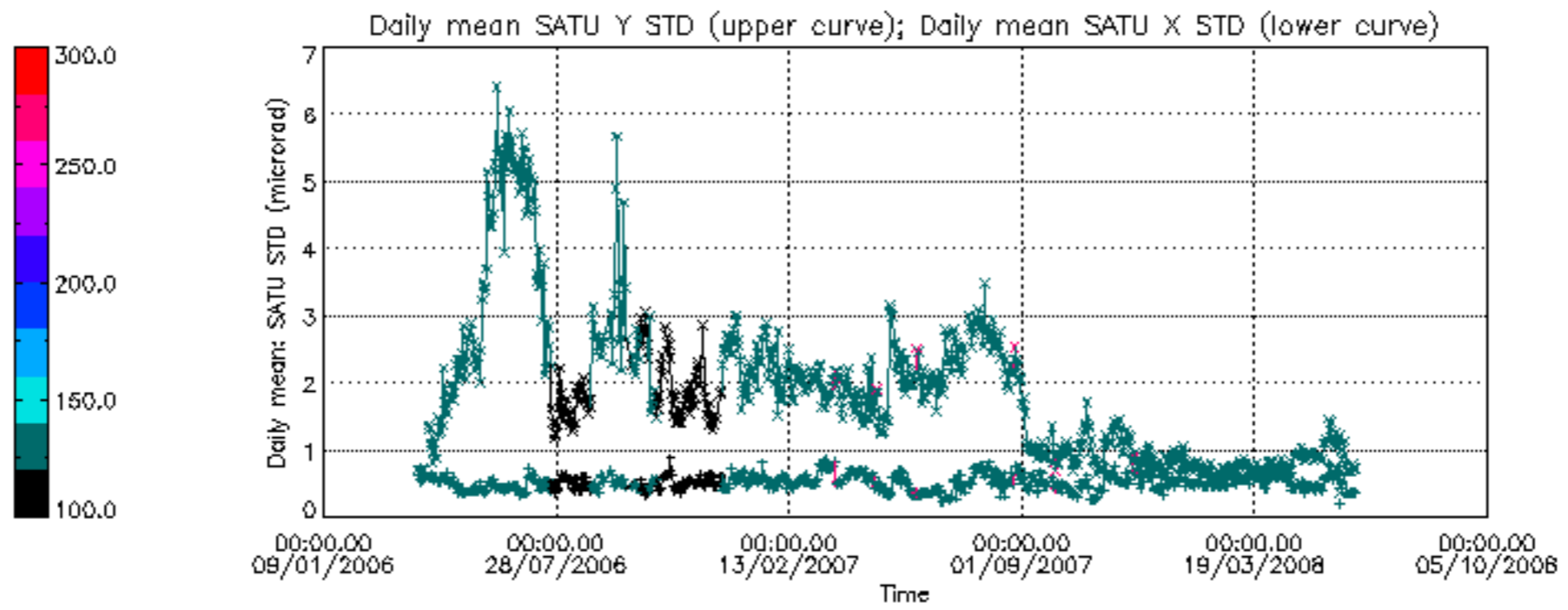


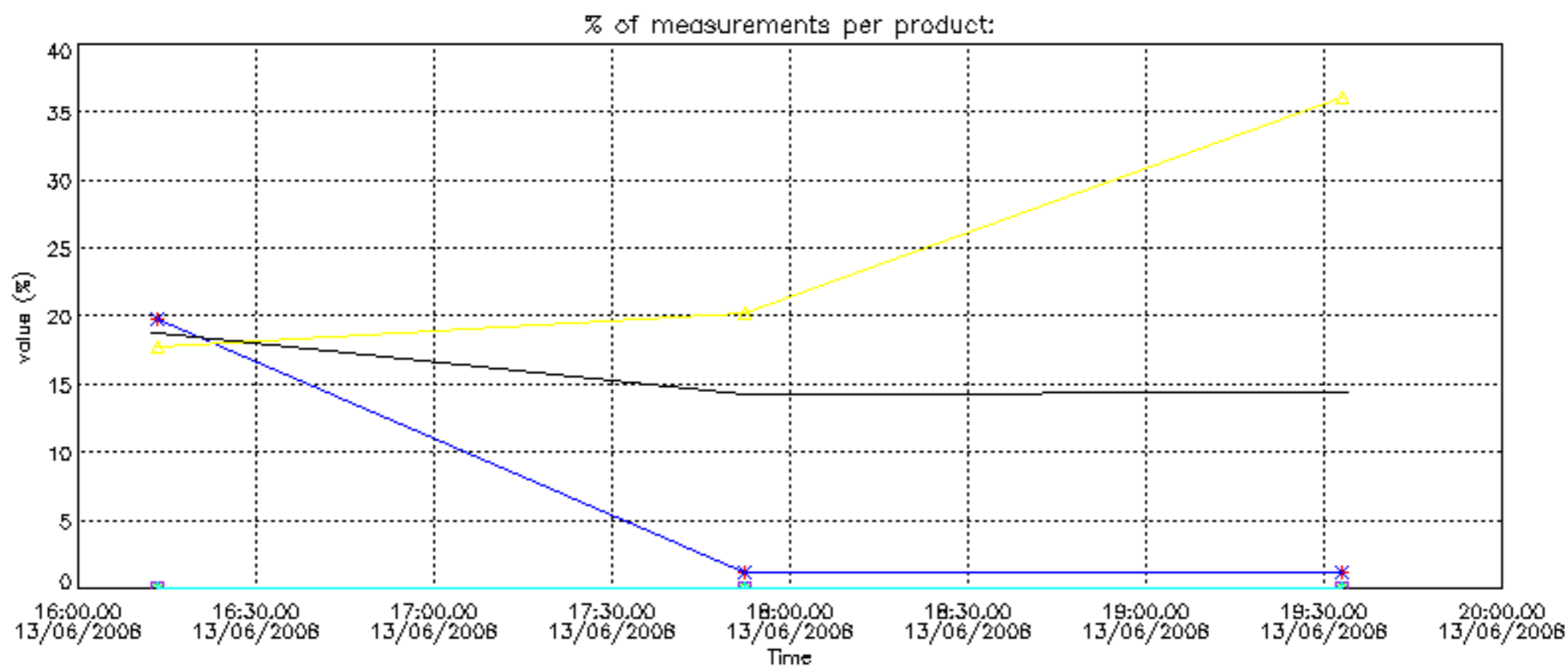
Percentage of saturation errors per profile

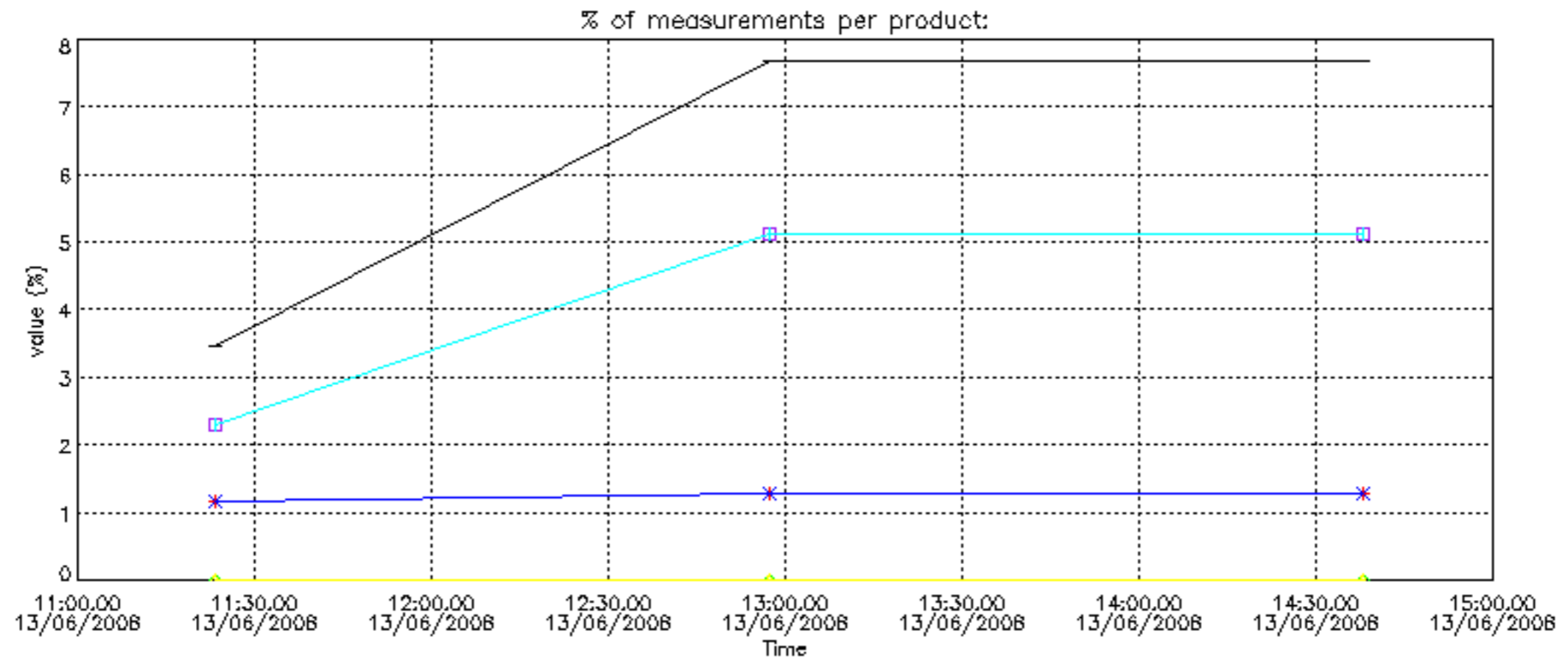


Tangent altitude at which the star is lost

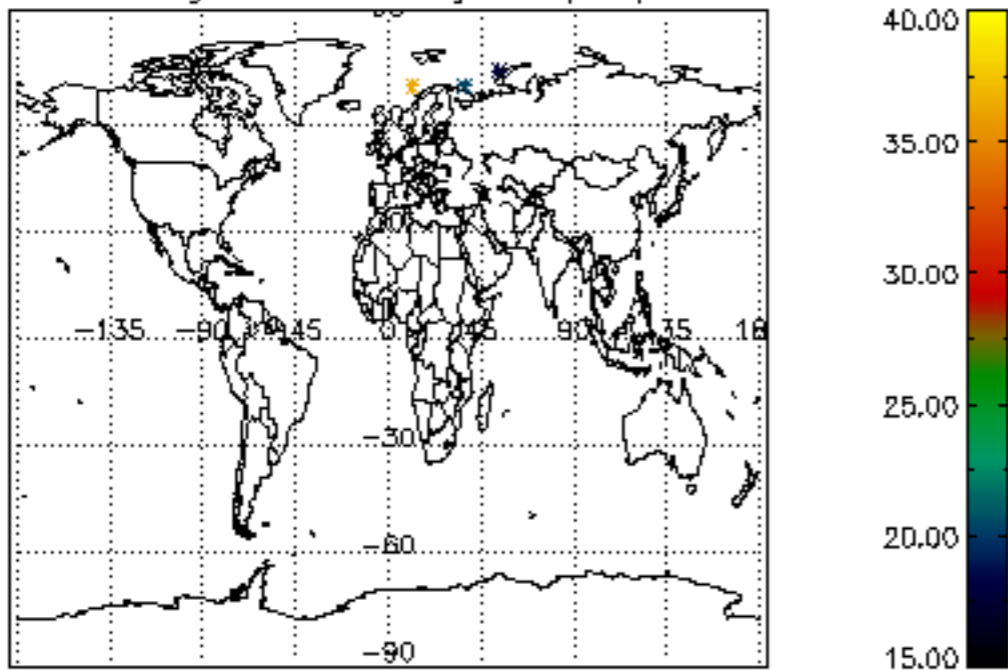




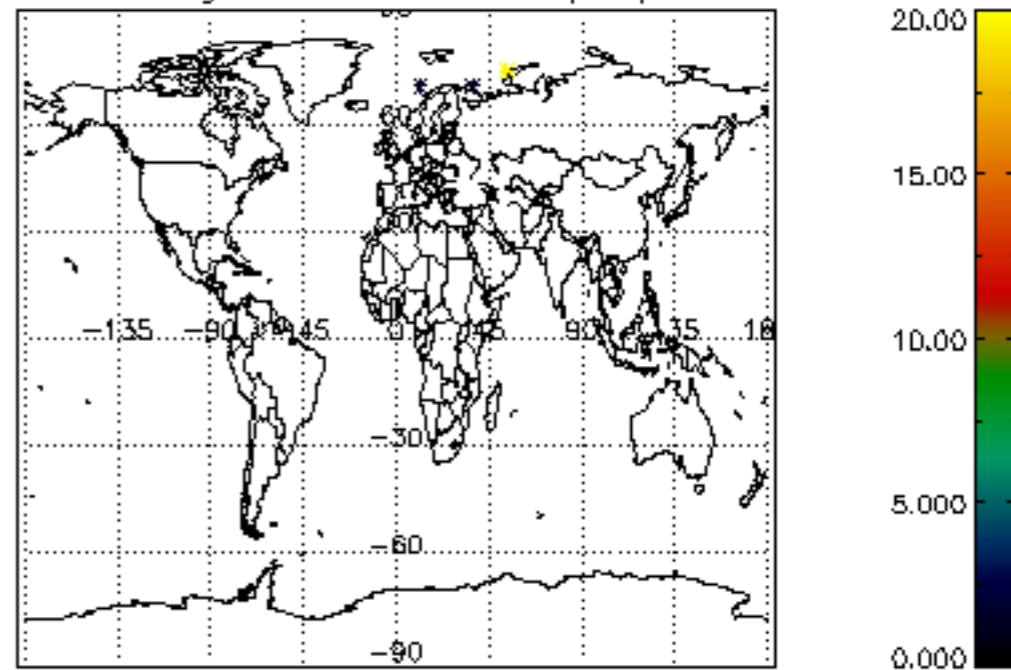




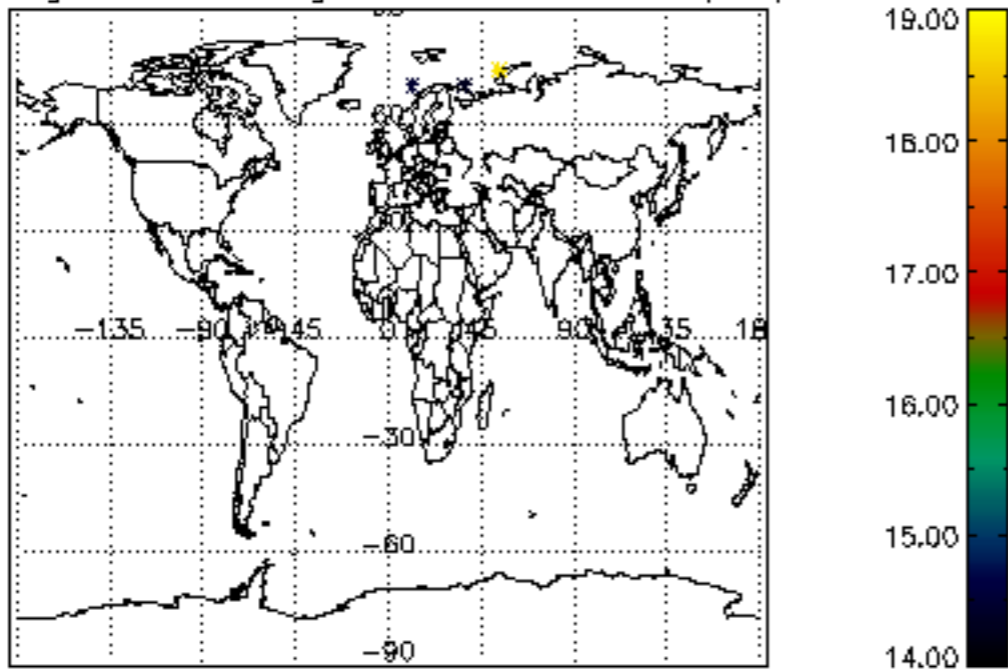
Percentage of cosmic ray hits per profile



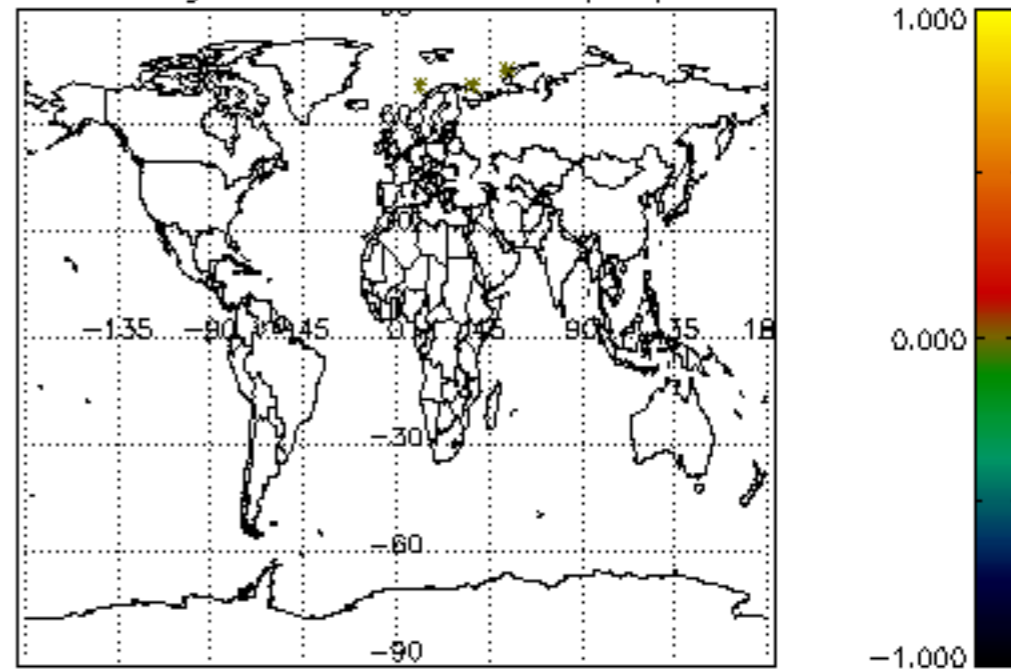
Percentage of datation errors per profile



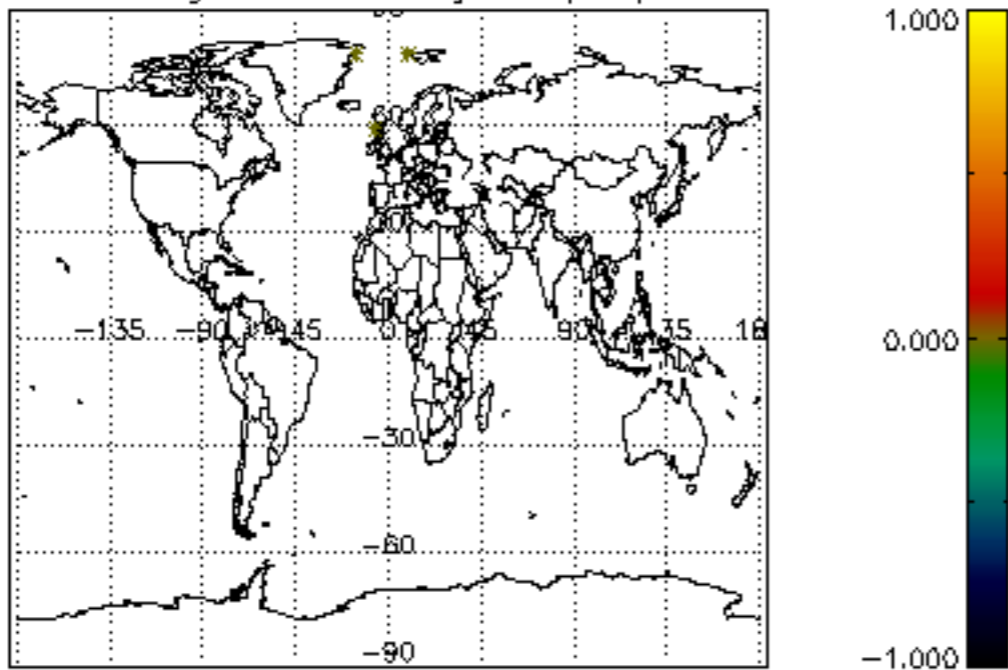
Percentage of star falling outside central band per profile



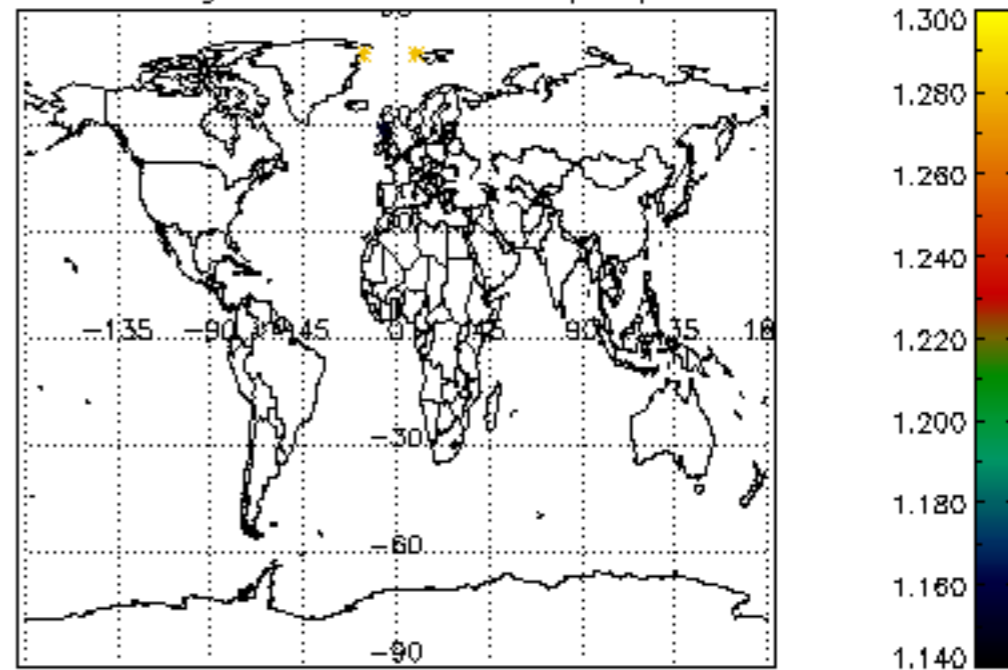
Percentage of saturation errors per profile



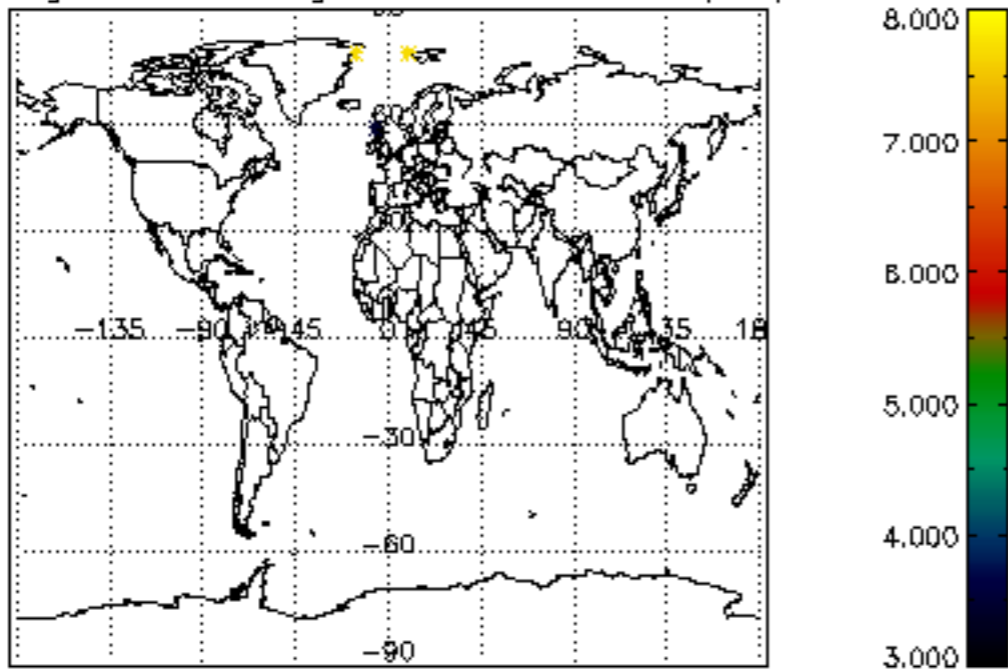
Percentage of cosmic ray hits per profile



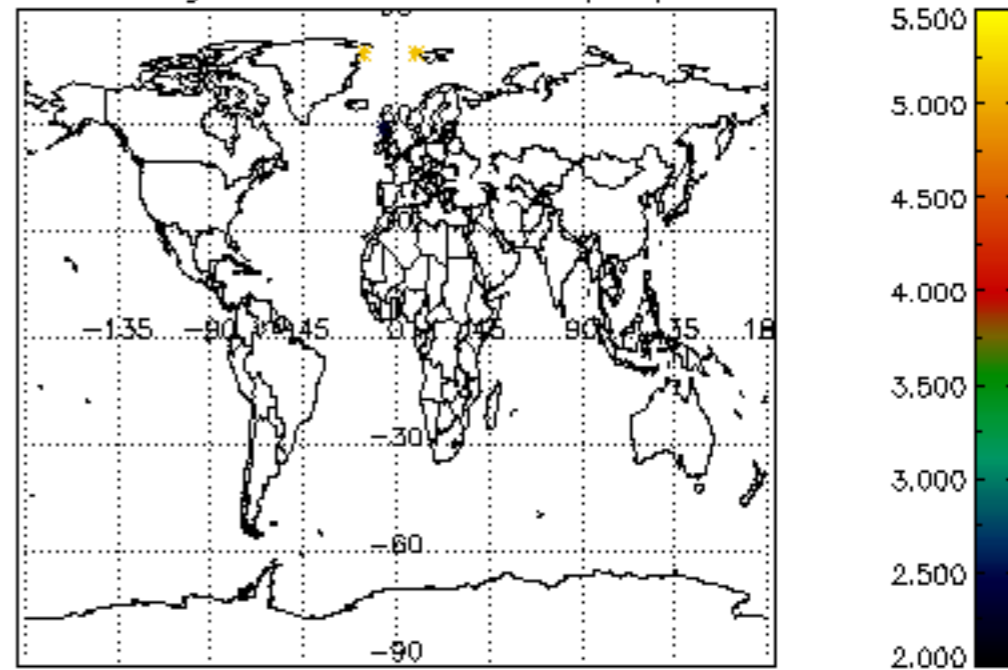
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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1; -751.2; 01-JUN-2008 00:10:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32692
 2; -641.4; 01-JUN-2008 00:12:31; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;32692
 3; -116.7; 01-JUN-2008 00:21:16; Dark ; 62.0; 18; 24Alp PsA ; 1.17; 9700;occ; 124; 0;32692
 4; 80.8; 01-JUN-2008 00:24:34; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32693
 5; 193.6; 01-JUN-2008 00:26:26; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32693
 6; 491.2; 01-JUN-2008 00:31:24; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32693
 7; 936.9; 01-JUN-2008 00:38:50; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32693
 8; 1038.2; 01-JUN-2008 00:40:31; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;32693
 9; 1146.2; 01-JUN-2008 00:42:19; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;32693
 10; 1251.9; 01-JUN-2008 00:44:05; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;32693
 11; 1373.9; 01-JUN-2008 00:46:07; Dark ; 47.5; 136; 23Tau Sco ; 2.82; 30000;occ; 95; 0;32693
 12; 1498.6; 01-JUN-2008 00:48:11; Bright; 37.0; 80; 7Del Sco ; 2.32; 30000;occ; 74; 0;32693
 13; 1591.4; 01-JUN-2008 00:49:44; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;32693
 14; 1702.9; 01-JUN-2008 00:51:36; Bright; 59.0; 98; 13Zet Oph ; 2.57; 30000;occ; 118; 0;32693
 15; 1834.0; 01-JUN-2008 00:53:47; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32693
 16; 2014.6; 01-JUN-2008 00:56:47; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32693
 17; 2368.7; 01-JUN-2008 01:02:41; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;32693
 18; 2526.4; 01-JUN-2008 01:05:19; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;32693
 19; 3003.7; 01-JUN-2008 01:13:16; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;32693
 20; 3626.4; 01-JUN-2008 01:23:39; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32693
 21; 3928.8; 01-JUN-2008 01:28:42; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32693
 22; 4394.6; 01-JUN-2008 01:36:27; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;32693
 23; 4557.0; 01-JUN-2008 01:39:10; Dark ; 53.5; 58; 21Alp And ; 2.07; 11000;occ; 107; 0;32693
 24; 4855.2; 01-JUN-2008 01:44:08; Dark ; 52.5; 140; 88Gam Peg ; 2.83; 26000;occ; 105; 0;32693

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 3; -115.5; 01-JUN-2008 02:01:53; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;32693
 4; 81.7; 01-JUN-2008 02:05:10; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;32694
 5; 194.6; 01-JUN-2008 02:07:03; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;32694
 6; 492.0; 01-JUN-2008 02:12:01; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;32694
 7; 937.3; 01-JUN-2008 02:19:26; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;32694
 8; 1038.7; 01-JUN-2008 02:21:07; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32694
 9; 1146.6; 01-JUN-2008 02:22:55; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32694
 10; 1252.2; 01-JUN-2008 02:24:41; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;32694
 11; 1374.2; 01-JUN-2008 02:26:43; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 0;32694
 12; 1498.9; 01-JUN-2008 02:28:48; Bright; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;32694
 13; 1591.6; 01-JUN-2008 02:30:20; Bright; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;32694
 14; 1703.0; 01-JUN-2008 02:32:12; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;32694
 15; 1834.1; 01-JUN-2008 02:34:23; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32694
 16; 2014.7; 01-JUN-2008 02:37:23; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;32694
 17; 2368.7; 01-JUN-2008 02:43:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;32694
 18; 2526.1; 01-JUN-2008 02:45:55; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;32694
 19; 3003.4; 01-JUN-2008 02:53:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32694
 20; 3625.8; 01-JUN-2008 03:04:14; Bright; 7.5; 89; 5Alp Cep ; 2.45; 8000;occ; 15; 0;32694

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 2; -2107.2; 01-JUN-2008 03:09:17; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32694
 3; -1641.2; 01-JUN-2008 03:17:03; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;32694
 4; -1478.7; 01-JUN-2008 03:19:46; Dark ; 50.0; 58; 21Alp And ; 2.07; 11000;occ; 100; 0;32694
 5; -1180.4; 01-JUN-2008 03:24:44; Dark ; 51.5; 140; 88Gam Peg ; 2.83; 26000;occ; 103; 0;32694
 6; -749.4; 01-JUN-2008 03:31:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32694
 7; -640.1; 01-JUN-2008 03:33:44; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;32694
 8; -114.1; 01-JUN-2008 03:42:30; Dark ; 65.5; 18; 24Alp PsA ; 1.17; 9700;occ; 131; 0;32694
 9; 82.7; 01-JUN-2008 03:45:47; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;32695
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 11; 492.5; 01-JUN-2008 03:52:37; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32695
 12; 937.9; 01-JUN-2008 04:00:02; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32695
 13; 1039.3; 01-JUN-2008 04:01:44; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;32695
 14; 1147.0; 01-JUN-2008 04:03:32; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;32695
 15; 1252.8; 01-JUN-2008 04:05:17; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32695
 16; 1374.6; 01-JUN-2008 04:07:19; Dark ; 49.5; 136; 23Tau Sco ; 2.82; 30000;occ; 99; 0;32695
 17; 1499.2; 01-JUN-2008 04:09:24; Bright; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;32695
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 4; 209.4; 10-JUN-2008 22:31:45; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;32835
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19; 7231.6; 10-JUN-2008 09:23:24; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;32826
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12; 5380.3; 10-JUN-2008 10:33:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32827
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 26; 7338.3; 14-JUN-2008 14:01:06; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32886
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16; 5985.2; 16-JUN-2008 10:54:43; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;32913
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23; 7344.0; 16-JUN-2008 11:17:22; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;32913
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12; 4062.8; 16-JUN-2008 12:03:17; Bright; 39.5; 160; 23Gam Per ; 2.93; 4700;occ; 79; 0;32914
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3; 307.2; 17-JUN-2008 23:53:51; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;32936
4; 647.1; 17-JUN-2008 23:59:31; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32936
5; 1020.6; 18-JUN-2008 00:05:45; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32936
6; 1126.0; 18-JUN-2008 00:07:30; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32936
7; 1228.2; 18-JUN-2008 00:09:12; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32936
8; 1312.7; 18-JUN-2008 00:10:37; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;32936
9; 1458.4; 18-JUN-2008 00:13:03; Bright; 41.5; 16; 21Alp Sco ; 1.02; 3000;occ; 83; 0;32936
10; 1618.0; 18-JUN-2008 00:15:42; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32936
11; 1721.9; 18-JUN-2008 00:17:26; Bright; 34.5; 98; 13Zet Oph ; 2.57; 30000;occ; 69; 0;32936
12; 1847.9; 18-JUN-2008 00:19:32; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32936
13; 2148.5; 18-JUN-2008 00:24:33; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;32936
14; 2274.9; 18-JUN-2008 00:26:39; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32936
15; 2453.7; 18-JUN-2008 00:29:38; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32936
16; 2855.0; 18-JUN-2008 00:36:19; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32936
17; 2957.7; 18-JUN-2008 00:38:02; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32936
18; 3171.9; 18-JUN-2008 00:41:36; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;32936
19; 3446.6; 18-JUN-2008 00:46:11; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;32936
20; 3888.7; 18-JUN-2008 00:53:33; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;32936
21; 4063.8; 18-JUN-2008 00:56:28; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;32936
22; 4270.6; 18-JUN-2008 00:59:55; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;32936
23; 4409.0; 18-JUN-2008 01:02:13; Dark ; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;32936
24; 4628.9; 18-JUN-2008 01:05:53; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;32936
25; 4915.6; 18-JUN-2008 01:10:40; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32936
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2; -1972.5; 17-JUN-2008 06:29:53; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;32925

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```

3;-1765.5; 17-JUN-2008 06:33:20; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;32925
4;-1627.8; 17-JUN-2008 06:35:37; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;32925
5;-1409.7; 17-JUN-2008 06:39:15; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;32925
6;-1123.3; 17-JUN-2008 06:44:02; Dark ; 37.0; 94; 92Alp Cet ; 2.53; 3100;occ; 74; 0;32925
7; -411.8; 17-JUN-2008 06:55:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32925
8; -46.3; 17-JUN-2008 07:01:59; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;32925
9; 297.5; 17-JUN-2008 07:07:43; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32926
10; 641.2; 17-JUN-2008 07:13:26; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32926
11; 935.0; 17-JUN-2008 07:18:20; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;32926
12; 1017.8; 17-JUN-2008 07:19:43; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32926
13; 1123.2; 17-JUN-2008 07:21:28; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;32926
14; 1225.5; 17-JUN-2008 07:23:11; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;32926
15; 1310.7; 17-JUN-2008 07:24:36; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32926
16; 1616.9; 17-JUN-2008 07:29:42; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;32926
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2; 1846.9; 17-JUN-2008 07:33:32; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32926
3; 2275.5; 17-JUN-2008 07:40:41; Bright; 47.0; 127; 27Bet Her ; 2.78; 4700;occ; 94; 0;32926
4; 2455.2; 17-JUN-2008 07:43:40; Bright; 54.0; 133; 40Zet Her ; 2.81; 6000;occ; 108; 0;32926
5; 2858.7; 17-JUN-2008 07:50:24; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32926
6; 2958.8; 17-JUN-2008 07:52:04; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32926
7; 3171.3; 17-JUN-2008 07:55:36; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32926
8; 3446.6; 17-JUN-2008 08:00:12; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32926
9; 3891.2; 17-JUN-2008 08:07:36; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;32926
10; 4063.5; 17-JUN-2008 08:10:29; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;32926
11; 4270.5; 17-JUN-2008 08:13:56; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;32926
12; 4408.1; 17-JUN-2008 08:16:13; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32926
13; 4626.6; 17-JUN-2008 08:19:52; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;32926
14; 4913.0; 17-JUN-2008 08:24:38; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;32926
15; 5624.5; 17-JUN-2008 08:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32926
16; 6334.3; 17-JUN-2008 08:48:19; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;32926
17; 6677.8; 17-JUN-2008 08:54:03; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32926
18; 6975.4; 17-JUN-2008 08:59:00; Dark ; 36.0; 141; Bet Ara ; 2.84; 4600;occ; 72; 0;32926
19; 7054.0; 17-JUN-2008 09:00:19; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32926
20; 7159.4; 17-JUN-2008 09:02:04; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32926
21; 7261.8; 17-JUN-2008 09:03:47; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;32926
22; 7346.9; 17-JUN-2008 09:05:12; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;32926
23; 7653.0; 17-JUN-2008 09:10:18; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32926
24; 7756.9; 17-JUN-2008 09:12:02; Bright; 48.5; 98; 13Zet Oph ; 2.57; 30000;occ; 97; 0;32926
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2; 1847.0; 17-JUN-2008 09:14:08; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32927
3; 2275.4; 17-JUN-2008 09:21:16; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32927
4; 2455.1; 17-JUN-2008 09:24:16; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32927
5; 2858.3; 17-JUN-2008 09:30:59; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32927
6; 2958.6; 17-JUN-2008 09:32:40; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32927
7; 3171.3; 17-JUN-2008 09:36:12; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32927
8; 3446.5; 17-JUN-2008 09:40:48; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32927
9; 3890.9; 17-JUN-2008 09:48:12; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;32927
10; 4063.4; 17-JUN-2008 09:51:04; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;32927
11; 4270.5; 17-JUN-2008 09:54:32; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;32927
12; 4408.3; 17-JUN-2008 09:56:49; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;32927
13; 4626.8; 17-JUN-2008 10:00:28; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;32927
14; 4913.2; 17-JUN-2008 10:05:14; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32927
15; 5624.9; 17-JUN-2008 10:17:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;32927
16; 6335.3; 17-JUN-2008 10:28:56; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32927
17; 6678.2; 17-JUN-2008 10:34:39; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32927
18; 7054.1; 17-JUN-2008 10:40:55; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32927
19; 7159.6; 17-JUN-2008 10:42:41; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32927
20; 7262.0; 17-JUN-2008 10:44:23; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32927
21; 7347.2; 17-JUN-2008 10:45:48; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;32927
22; 7492.9; 17-JUN-2008 10:48:14; Bright; 41.0; 16; 21Alp Sco ; 1.02; 3000;occ; 82; 0;32927
23; 7653.1; 17-JUN-2008 10:50:54; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32927
24; 7757.1; 17-JUN-2008 10:52:38; Bright; 20.5; 98; 13Zet Oph ; 2.57; 30000;occ; 41; 0;32927
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2; 1847.1; 17-JUN-2008 10:54:44; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;32928
3; 2275.3; 17-JUN-2008 11:01:52; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32928

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4; 2454.9; 17-JUN-2008 11:04:52; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;32928
5; 2857.8; 17-JUN-2008 11:11:35; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32928
6; 2958.6; 17-JUN-2008 11:13:15; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32928
7; 3171.3; 17-JUN-2008 11:16:48; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32928
8; 3446.6; 17-JUN-2008 11:21:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32928
9; 3890.6; 17-JUN-2008 11:28:48; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;32928
10; 4063.4; 17-JUN-2008 11:31:40; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32928
11; 4270.5; 17-JUN-2008 11:35:07; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32928
12; 4408.3; 17-JUN-2008 11:37:25; Dark ; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;32928
13; 4626.9; 17-JUN-2008 11:41:04; Dark ; 46.5; 50; 13Alp Ari ; 2.01; 4250;occ; 93; 0;32928
14; 4913.4; 17-JUN-2008 11:45:50; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;32928
15; 5625.2; 17-JUN-2008 11:57:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32928
16; 5958.4; 17-JUN-2008 12:03:15; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;32928
17; 6336.3; 17-JUN-2008 12:09:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;32928
18; 6678.8; 17-JUN-2008 12:15:16; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32928
19; 7054.5; 17-JUN-2008 12:21:31; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32928
20; 7159.9; 17-JUN-2008 12:23:17; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32928
21; 7262.2; 17-JUN-2008 12:24:59; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32928
22; 7347.3; 17-JUN-2008 12:26:24; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;32928
23; 7493.0; 17-JUN-2008 12:28:50; Bright; 41.0; 16; 21Alp Sco ; 1.02; 3000;occ; 82; 0;32928
24; 7653.2; 17-JUN-2008 12:31:30; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32928
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2; 1721.2; 17-JUN-2008 12:33:14; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32929
3; 1847.3; 17-JUN-2008 12:35:20; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32929
4; 2275.3; 17-JUN-2008 12:42:28; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;32929
5; 2454.9; 17-JUN-2008 12:45:28; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;32929
6; 2857.5; 17-JUN-2008 12:52:10; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32929
7; 2958.5; 17-JUN-2008 12:53:51; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32929
8; 3171.5; 17-JUN-2008 12:57:24; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;32929
9; 3446.6; 17-JUN-2008 13:01:59; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;32929
10; 3890.6; 17-JUN-2008 13:09:23; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;32929
11; 4063.5; 17-JUN-2008 13:12:16; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;32929
12; 4270.6; 17-JUN-2008 13:15:43; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;32929
13; 4408.5; 17-JUN-2008 13:18:01; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;32929
14; 4627.3; 17-JUN-2008 13:21:40; Dark ; 49.5; 50; 13Alp Ari ; 2.01; 4250;occ; 99; 0;32929
15; 4913.7; 17-JUN-2008 13:26:26; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32929
16; 5625.6; 17-JUN-2008 13:38:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32929
17; 5959.2; 17-JUN-2008 13:43:52; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;32929
18; 6337.3; 17-JUN-2008 13:50:10; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32929
19; 6679.5; 17-JUN-2008 13:55:52; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32929
20; 7055.0; 17-JUN-2008 14:02:08; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32929
21; 7160.4; 17-JUN-2008 14:03:53; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;32929
22; 7262.5; 17-JUN-2008 14:05:35; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32929
23; 7347.5; 17-JUN-2008 14:07:00; Dark ; 39.0; 75; 26Eps Sco ; 2.29; 4250;occ; 78; 0;32929
24; 7459.4; 17-JUN-2008 14:08:52; Bright; 34.5; 136; 23Tau Sco ; 2.82; 30000;occ; 69; 0;32929
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080617_141206_000057582069_00311_32930_1275.N1
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2; 1721.4; 17-JUN-2008 14:13:50; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32930
3; 1847.4; 17-JUN-2008 14:15:56; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32930
4; 2275.3; 17-JUN-2008 14:23:04; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;32930
5; 2454.8; 17-JUN-2008 14:26:03; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32930
6; 2857.2; 17-JUN-2008 14:32:46; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32930
7; 2958.5; 17-JUN-2008 14:34:27; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32930
8; 3171.6; 17-JUN-2008 14:38:00; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32930
9; 3446.7; 17-JUN-2008 14:42:35; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;32930
10; 3890.4; 17-JUN-2008 14:49:59; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;32930
11; 4063.8; 17-JUN-2008 14:52:52; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32930
12; 4270.6; 17-JUN-2008 14:56:19; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;32930
13; 4408.7; 17-JUN-2008 14:58:37; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;32930
14; 4627.6; 17-JUN-2008 15:02:16; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;32930
15; 4914.2; 17-JUN-2008 15:07:03; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32930
16; 5626.0; 17-JUN-2008 15:18:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32930
17; 5991.5; 17-JUN-2008 15:25:00; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;32930
18; 6338.3; 17-JUN-2008 15:30:47; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;32930
19; 6680.1; 17-JUN-2008 15:36:29; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32930
20; 7055.2; 17-JUN-2008 15:42:44; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32930
21; 7160.6; 17-JUN-2008 15:44:29; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32930

```



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22; 7262.9; 17-JUN-2008 15:46:12; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32930
23; 7347.8; 17-JUN-2008 15:47:36; Dark ; 28.0; 75; 26Eps Sco ; 2.29; 4250;occ; 56; 0;32930
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12; 1848.0; 18-JUN-2008 02:00:08; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;32937
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8; 2957.0; 18-JUN-2008 12:22:13; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32943
9; 3172.5; 18-JUN-2008 12:25:48; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;32943
10; 3446.5; 18-JUN-2008 12:30:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32943
11; 3887.1; 18-JUN-2008 12:37:43; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;32943
12; 4064.1; 18-JUN-2008 12:40:40; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;32943
13; 4270.8; 18-JUN-2008 12:44:07; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;32943
14; 4409.8; 18-JUN-2008 12:46:26; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32943
15; 4630.5; 18-JUN-2008 12:50:06; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;32943
16; 4917.5; 18-JUN-2008 12:54:53; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32943
17; 5631.0; 18-JUN-2008 13:06:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32943

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18; 5996.2; 18-JUN-2008 13:12:52; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;32943
19; 6351.0; 18-JUN-2008 13:18:47; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;32943
20; 6687.9; 18-JUN-2008 13:24:24; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32943
21; 7058.6; 18-JUN-2008 13:30:34; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32943
22; 7164.3; 18-JUN-2008 13:32:20; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;32943
23; 7266.4; 18-JUN-2008 13:34:02; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32943
24; 7350.4; 18-JUN-2008 13:35:26; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;32943
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11; 3886.9; 18-JUN-2008 14:18:19; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;32944
12; 4064.1; 18-JUN-2008 14:21:16; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32944
13; 4270.9; 18-JUN-2008 14:24:43; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;32944
14; 4410.1; 18-JUN-2008 14:27:02; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;32944
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16; 4917.9; 18-JUN-2008 14:35:30; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32944
17; 5631.4; 18-JUN-2008 14:47:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32944
18; 5996.6; 18-JUN-2008 14:53:28; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;32944
19; 6352.1; 18-JUN-2008 14:59:24; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;32944
20; 6688.4; 18-JUN-2008 15:05:00; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32944
21; 7059.1; 18-JUN-2008 15:11:11; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32944
22; 7164.7; 18-JUN-2008 15:12:56; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;32944
23; 7266.7; 18-JUN-2008 15:14:38; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32944
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 3; 1723.1; 18-JUN-2008 15:22:51; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;32945
 4; 1849.1; 18-JUN-2008 15:24:57; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32945
 5; 2146.5; 18-JUN-2008 15:29:54; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;32945
 6; 2274.7; 18-JUN-2008 15:32:02; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32945
 7; 2452.6; 18-JUN-2008 15:35:00; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32945
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 9; 2957.0; 18-JUN-2008 15:43:25; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32945
10; 3172.7; 18-JUN-2008 15:47:00; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32945
11; 3446.6; 18-JUN-2008 15:51:34; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32945
12; 3886.7; 18-JUN-2008 15:58:54; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;32945
13; 4064.2; 18-JUN-2008 16:01:52; Bright; 33.0; 160; 23Gam Per ; 2.93; 4700;occ; 66; 0;32945
14; 4270.9; 18-JUN-2008 16:05:18; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;32945
15; 4410.1; 18-JUN-2008 16:07:38; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32945
16; 4631.3; 18-JUN-2008 16:11:19; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;32945
17; 4918.2; 18-JUN-2008 16:16:06; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32945
18; 5631.9; 18-JUN-2008 16:27:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32945
19; 5997.0; 18-JUN-2008 16:34:05; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;32945
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21; 6689.2; 18-JUN-2008 16:45:37; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32945
22; 7059.4; 18-JUN-2008 16:51:47; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32945
23; 7165.1; 18-JUN-2008 16:53:33; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;32945
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 4; 1619.5; 18-JUN-2008 17:01:43; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32946
 5; 1723.3; 18-JUN-2008 17:03:27; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32946
 6; 1849.3; 18-JUN-2008 17:05:33; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32946
 7; 2146.3; 18-JUN-2008 17:10:30; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;32946
 8; 2274.7; 18-JUN-2008 17:12:38; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32946
 9; 2452.6; 18-JUN-2008 17:15:36; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32946

```



```

10; 2851.8; 18-JUN-2008 17:22:15; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32946
11; 2956.8; 18-JUN-2008 17:24:00; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32946
12; 3172.8; 18-JUN-2008 17:27:36; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;32946
13; 3446.6; 18-JUN-2008 17:32:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32946
14; 3886.6; 18-JUN-2008 17:39:30; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;32946
15; 4064.3; 18-JUN-2008 17:42:28; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;32946
16; 4270.9; 18-JUN-2008 17:45:55; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32946
17; 4410.3; 18-JUN-2008 17:48:14; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;32946
18; 4631.5; 18-JUN-2008 17:51:55; Dark ; 50.5; 50; 13Alp Ari ; 2.01; 4250;occ; 101; 0;32946
19; 4918.4; 18-JUN-2008 17:56:42; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32946
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22; 6354.1; 18-JUN-2008 18:20:38; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;32946
23; 6689.7; 18-JUN-2008 18:26:13; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32946
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5; 1460.4; 18-JUN-2008 18:39:40; Bright; 41.5; 16; 21Alp Sco ; 1.02; 3000;occ; 83; 0;32947
6; 1619.6; 18-JUN-2008 18:42:19; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32947
7; 1723.3; 18-JUN-2008 18:44:03; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32947
8; 1849.4; 18-JUN-2008 18:46:09; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32947
9; 2146.0; 18-JUN-2008 18:51:06; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;32947
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12; 2851.3; 18-JUN-2008 19:02:51; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32947
13; 2956.7; 18-JUN-2008 19:04:36; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;32947
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23; 5997.8; 18-JUN-2008 19:55:17; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;32947
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3; 656.0; 19-JUN-2008 01:08:39; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32951
4; 1024.6; 19-JUN-2008 01:14:48; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32951
5; 1130.4; 19-JUN-2008 01:16:34; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32951
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7; 1315.9; 19-JUN-2008 01:19:39; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;32951
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3; 656.6; 19-JUN-2008 02:49:16; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32952
4; 1024.9; 19-JUN-2008 02:55:24; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32952
5; 1130.8; 19-JUN-2008 02:57:10; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32952
6; 1232.7; 19-JUN-2008 02:58:52; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32952
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9; 1620.2; 19-JUN-2008 03:05:19; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32952
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5; 1031.6; 20-JUN-2008 22:31:05; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32978
6; 1137.7; 20-JUN-2008 22:32:51; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;32978
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21; 2952.7; 23-JUN-2008 06:22:52; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33011
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7; 2952.7; 23-JUN-2008 08:03:28; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33012
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9; 3446.2; 23-JUN-2008 08:11:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33012
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16; 4938.9; 23-JUN-2008 11:57:46; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33014
17; 5421.9; 23-JUN-2008 12:05:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33014
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23; 7365.8; 23-JUN-2008 12:38:12; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33014
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13; 4270.7; 23-JUN-2008 13:27:13; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33015
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16; 4939.4; 23-JUN-2008 13:38:22; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33015
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22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
23; 7366.0; 23-JUN-2008 14:18:49; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33015
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3; 1988.4; 23-JUN-2008 14:29:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;33016
4; 2132.4; 23-JUN-2008 14:32:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33016

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6; 2446.9; 23-JUN-2008 14:37:25; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33016
7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016
9; 3179.1; 23-JUN-2008 14:49:38; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33016
10; 3446.3; 23-JUN-2008 14:54:05; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33016
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12; 4065.4; 23-JUN-2008 15:04:24; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33016
13; 4270.9; 23-JUN-2008 15:07:49; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33016
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19; 6729.2; 23-JUN-2008 15:48:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33016
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21; 7285.0; 23-JUN-2008 15:58:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33016
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3; 1732.6; 23-JUN-2008 16:06:07; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33017
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5; 2132.2; 23-JUN-2008 16:12:47; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;33017
6; 2274.9; 23-JUN-2008 16:15:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33017
7; 2446.9; 23-JUN-2008 16:18:01; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33017
8; 2830.4; 23-JUN-2008 16:24:25; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33017
9; 2952.5; 23-JUN-2008 16:26:27; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33017
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12; 3867.4; 23-JUN-2008 16:41:42; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;33017
13; 4065.4; 23-JUN-2008 16:45:00; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;33017
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16; 4940.1; 23-JUN-2008 16:59:34; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;33017
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3; 1330.6; 23-JUN-2008 17:40:01; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;33018
4; 1628.7; 23-JUN-2008 17:44:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33018
5; 1732.6; 23-JUN-2008 17:46:43; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33018
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8; 2274.9; 23-JUN-2008 17:55:45; Bright; 51.0; 127; 27Bet Her ; 2.78; 4700;occ; 102; 0;33018
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11; 2952.4; 23-JUN-2008 18:07:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33018
12; 3179.2; 23-JUN-2008 18:10:50; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33018
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8; 2274.8; 23-JUN-2008 19:36:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33019
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11; 2952.3; 23-JUN-2008 19:47:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33019
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3; 393.3; 24-JUN-2008 01:47:23; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33023
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13; 2446.6; 24-JUN-2008 02:21:37; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33023
14; 2828.8; 24-JUN-2008 02:27:59; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;33023
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9; 697.1; 24-JUN-2008 03:33:03; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33024
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 17; 6736.8; 24-JUN-2008 15:17:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33030
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 8; 2952.0; 24-JUN-2008 15:54:49; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33031
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 10; 2127.5; 25-JUN-2008 23:32:28; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33050
 11; 2276.5; 25-JUN-2008 23:34:57; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33050
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6; 2815.0; 28-JUN-2008 10:24:53; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33085
7; 2951.7; 28-JUN-2008 10:27:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33085
8; 3187.2; 28-JUN-2008 10:31:05; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;33085
9; 3445.7; 28-JUN-2008 10:35:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33085
10; 4064.0; 28-JUN-2008 10:45:42; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;33085
11; 4164.1; 28-JUN-2008 10:47:22; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33085
12; 4293.1; 28-JUN-2008 10:49:31; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;33085
13; 4964.4; 28-JUN-2008 11:00:42; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33085
14; 5192.8; 28-JUN-2008 11:04:30; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33085
15; 5697.6; 28-JUN-2008 11:12:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33085
16; 6056.7; 28-JUN-2008 11:18:54; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33085
17; 6344.8; 28-JUN-2008 11:23:42; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33085
18; 6500.2; 28-JUN-2008 11:26:18; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33085
19; 6765.5; 28-JUN-2008 11:30:43; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33085
20; 7005.9; 28-JUN-2008 11:34:43; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;33085
21; 7092.7; 28-JUN-2008 11:36:10; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33085
22; 7200.3; 28-JUN-2008 11:37:58; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33085
23; 7300.5; 28-JUN-2008 11:39:38; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33085
24; 7384.1; 28-JUN-2008 11:41:02; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33085
25; 7674.2; 28-JUN-2008 11:45:52; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33085

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1;	1655.4;	28-JUN-2008	11:46:09;	Bright;	37.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	74;	34;	33086	
2;	1742.9;	28-JUN-2008	11:47:36;	Bright;	35.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	70;	0;	33086	
3;	1983.2;	28-JUN-2008	11:51:37;	Bright;	38.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	77;	0;	33086	
4;	2124.1;	28-JUN-2008	11:53:58;	Bright;	36.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	72;	0;	33086	
5;	2279.9;	28-JUN-2008	11:56:33;	Bright;	35.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	70;	0;	33086	
6;	2446.5;	28-JUN-2008	11:59:20;	Bright;	34.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	69;	0;	33086	
7;	2814.7;	28-JUN-2008	12:05:28;	Bright;	37.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	75;	0;	33086	
8;	2951.7;	28-JUN-2008	12:07:45;	Bright;	37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	33086	
9;	3187.4;	28-JUN-2008	12:11:41;	Bright;	34.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	69;	0;	33086	
10;	3445.8;	28-JUN-2008	12:15:59;	Bright;	33.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	66;	0;	33086	
11;	4064.1;	28-JUN-2008	12:26:18;	Bright;	45.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	91;	0;	33086	
12;	4164.3;	28-JUN-2008	12:27:58;	Bright;	33.0;	175;	39Del	Per	;	3.01;	19400;	occ;	66;	0;	33086	
13;	4293.1;	28-JUN-2008	12:30:06;	Bright;	37.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	74;	0;	33086	
14;	4964.7;	28-JUN-2008	12:41:18;	Dark	;	45.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	90;	0;	33086
15;	5193.1;	28-JUN-2008	12:45:07;	Dark	;	40.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	80;	0;	33086
16;	5698.2;	28-JUN-2008	12:53:32;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33086
17;	6057.2;	28-JUN-2008	12:59:31;	Dark	;	50.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	100;	0;	33086
18;	6345.1;	28-JUN-2008	13:04:19;	Dark	;	36.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	73;	0;	33086
19;	6500.9;	28-JUN-2008	13:06:54;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	33086
20;	6766.1;	28-JUN-2008	13:11:20;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	33086
21;	7006.1;	28-JUN-2008	13:15:19;	Dark	;	38.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	76;	0;	33086
22;	7092.9;	28-JUN-2008	13:16:46;	Dark	;	35.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	71;	0;	33086
23;	7200.6;	28-JUN-2008	13:18:34;	Dark	;	41.0;	40;	The	Sco	;	1.86;	7100;	occ;	82;	0;	33086
24;	7300.6;	28-JUN-2008	13:20:14;	Dark	;	41.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	82;	0;	33086
25;	7384.4;	28-JUN-2008	13:21:38;	Dark	;	44.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	89;	0;	33086

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1;	1638.6;	28-JUN-2008	13:26:28;	Bright;	36.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	73;	0;	33087	
2;	1743.3;	28-JUN-2008	13:28:13;	Bright;	35.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	70;	0;	33087	
3;	1983.1;	28-JUN-2008	13:32:12;	Bright;	38.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	77;	0;	33087	
4;	2124.0;	28-JUN-2008	13:34:33;	Bright;	36.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	72;	0;	33087	
5;	2280.2;	28-JUN-2008	13:37:09;	Bright;	34.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	68;	0;	33087	
6;	2446.7;	28-JUN-2008	13:39:56;	Bright;	36.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	72;	0;	33087	
7;	2814.6;	28-JUN-2008	13:46:04;	Bright;	38.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	77;	0;	33087	
8;	2951.7;	28-JUN-2008	13:48:21;	Bright;	36.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	73;	0;	33087	
9;	3187.5;	28-JUN-2008	13:52:17;	Bright;	33.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	67;	0;	33087	
10;	3445.8;	28-JUN-2008	13:56:35;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	33087	
11;	4064.2;	28-JUN-2008	14:06:54;	Bright;	35.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	70;	0;	33087	
12;	4164.3;	28-JUN-2008	14:08:34;	Bright;	33.5;	175;	39Del	Per	;	3.01;	19400;	occ;	67;	0;	33087	
13;	4293.3;	28-JUN-2008	14:10:43;	Bright;	38.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	76;	0;	33087	
14;	4965.2;	28-JUN-2008	14:21:54;	Dark	;	47.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	95;	0;	33087
15;	5193.4;	28-JUN-2008	14:25:43;	Dark	;	41.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	83;	0;	33087
16;	5698.8;	28-JUN-2008	14:34:08;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33087
17;	6057.8;	28-JUN-2008	14:40:07;	Dark	;	47.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	95;	0;	33087
18;	6345.3;	28-JUN-2008	14:44:55;	Dark	;	36.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	72;	0;	33087
19;	6501.6;	28-JUN-2008	14:47:31;	Dark	;	42.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	84;	0;	33087
20;	6766.7;	28-JUN-2008	14:51:56;	Dark	;	41.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	82;	0;	33087
21;	7006.3;	28-JUN-2008	14:55:56;	Dark	;	40.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	81;	0;	33087
22;	7093.2;	28-JUN-2008	14:57:23;	Dark	;	37.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	74;	0;	33087
23;	7200.9;	28-JUN-2008	14:59:10;	Dark	;	42.5;	40;	The	Sco	;	1.86;	7100;	occ;	85;	0;	33087
24;	7300.9;	28-JUN-2008	15:00:50;	Dark	;	41.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	83;	0;	33087
25;	7384.7;	28-JUN-2008	15:02:14;	Dark	;	43.0;	116;	19Del	Sgr	;	2.70;	4100;	occ;	86;	0;	33087

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1;	1638.6;	28-JUN-2008	15:07:04;	Bright;	35.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	71;	0;	33088	
2;	1743.5;	28-JUN-2008	15:08:49;	Bright;	35.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	71;	0;	33088	
3;	1983.1;	28-JUN-2008	15:12:48;	Bright;	37.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	75;	0;	33088	
4;	2123.9;	28-JUN-2008	15:15:09;	Bright;	39.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	78;	0;	33088	
5;	2280.2;	28-JUN-2008	15:17:45;	Bright;	36.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	72;	0;	33088	
6;	2446.7;	28-JUN-2008	15:20:32;	Bright;	37.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	75;	0;	33088	
7;	2814.5;	28-JUN-2008	15:26:40;	Bright;	36.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	73;	0;	33088	
8;	2951.7;	28-JUN-2008	15:28:57;	Bright;	36.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	72;	0;	33088	
9;	3187.7;	28-JUN-2008	15:32:53;	Bright;	35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	33088	
10;	3445.9;	28-JUN-2008	15:37:11;	Bright;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	33088	
11;	4064.2;	28-JUN-2008	15:47:29;	Bright;	45.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	90;	0;	33088	
12;	4164.5;	28-JUN-2008	15:49:10;	Bright;	36.0;	175;	39Del	Per	;	3.01;	19400;	occ;	72;	0;	33088	
13;	4293.3;	28-JUN-2008	15:51:19;	Bright;	35.5;	79;	26Bet	Per	;	2.31;	13100;	occ;	71;	0;	33088	
14;	4965.8;	28-JUN-2008	16:02:31;	Dark	;	47.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	95;	0;	33088
15;	5193.8;	28-JUN-2008	16:06:19;	Dark	;	38.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	76;	0;	33088


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17; 6058.3; 28-JUN-2008 16:20:43; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;33088
18; 6345.6; 28-JUN-2008 16:25:31; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33088
19; 6502.3; 28-JUN-2008 16:28:07; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33088
20; 6767.3; 28-JUN-2008 16:32:33; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33088
21; 7006.6; 28-JUN-2008 16:36:32; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;33088
22; 7093.6; 28-JUN-2008 16:37:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33088
23; 7201.2; 28-JUN-2008 16:39:46; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33088
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 2; 1349.0; 28-JUN-2008 16:42:50; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;33089
 3; 1638.7; 28-JUN-2008 16:47:40; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33089
 4; 1743.5; 28-JUN-2008 16:49:25; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33089
 5; 1983.1; 28-JUN-2008 16:53:24; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33089
 6; 2123.9; 28-JUN-2008 16:55:45; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33089
 7; 2280.4; 28-JUN-2008 16:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33089
 8; 2446.7; 28-JUN-2008 17:01:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33089
 9; 2814.2; 28-JUN-2008 17:07:15; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33089
10; 2951.7; 28-JUN-2008 17:09:33; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;33089
11; 3187.8; 28-JUN-2008 17:13:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;33089
12; 3445.8; 28-JUN-2008 17:17:47; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33089
13; 4064.2; 28-JUN-2008 17:28:05; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;33089
14; 4164.5; 28-JUN-2008 17:29:46; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33089
15; 4293.4; 28-JUN-2008 17:31:55; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;33089
16; 4966.1; 28-JUN-2008 17:43:07; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;33089
17; 5193.9; 28-JUN-2008 17:46:55; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;33089
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19; 6058.8; 28-JUN-2008 18:01:20; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33089
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21; 6502.8; 28-JUN-2008 18:08:44; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33089
22; 6767.7; 28-JUN-2008 18:13:09; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33089
23; 7006.7; 28-JUN-2008 18:17:08; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;33089
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 2; 1165.3; 28-JUN-2008 18:20:23; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;33090
 3; 1265.2; 28-JUN-2008 18:22:02; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33090
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 5; 1638.9; 28-JUN-2008 18:28:16; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33090
 6; 1743.7; 28-JUN-2008 18:30:01; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33090
 7; 1983.1; 28-JUN-2008 18:34:00; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;33090
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10; 2446.7; 28-JUN-2008 18:41:44; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33090
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13; 3187.9; 28-JUN-2008 18:54:05; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33090
14; 3445.8; 28-JUN-2008 18:58:23; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33090
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16; 4164.4; 28-JUN-2008 19:10:22; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;33090
17; 4293.3; 28-JUN-2008 19:12:30; Bright; 41.0; 79; 26Bet Per ; 2.31; 13100;occ; 82; 0;33090
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12; 4164.9; 29-JUN-2008 11:56:21; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;33100
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17; 6348.2; 29-JUN-2008 12:32:45; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;33100
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19; 6773.2; 29-JUN-2008 12:39:50; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33100
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 7; 1641.0; 29-JUN-2008 19:37:17; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33105
 8; 1746.0; 29-JUN-2008 19:39:02; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33105
 9; 1982.6; 29-JUN-2008 19:42:59; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33105
 10; 2122.9; 29-JUN-2008 19:45:19; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33105
 11; 2282.2; 29-JUN-2008 19:47:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33105
 12; 2447.3; 29-JUN-2008 19:50:43; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33105
 13; 2811.2; 29-JUN-2008 19:56:47; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33105
 14; 2952.1; 29-JUN-2008 19:59:08; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33105
 15; 3189.9; 29-JUN-2008 20:03:06; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33105
 16; 3445.7; 29-JUN-2008 20:07:22; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33105
 17; 4063.4; 29-JUN-2008 20:17:40; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;33105
 18; 4165.4; 29-JUN-2008 20:19:22; Bright; 53.0; 175; 39Del Per ; 3.01; 19400;occ; 106; 0;33105
 19; 4294.2; 29-JUN-2008 20:21:30; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;33105
 20; 4972.4; 29-JUN-2008 20:32:49; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;33105
 21; 5197.8; 29-JUN-2008 20:36:34; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;33105
 22; 5708.9; 29-JUN-2008 20:45:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33105
 23; 6066.2; 29-JUN-2008 20:51:02; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;33105
 24; 6349.2; 29-JUN-2008 20:55:45; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33105
 25; 6512.4; 29-JUN-2008 20:58:29; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33105
 26; 6775.6; 29-JUN-2008 21:02:52; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33105