

GOMOS Daily Report 29-JUN-2009

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	01JUL2009 04:31:37
Data source version	GOMOS/5.00
Start time of products	29JUN2009 20:03:17
Stop time of products	29JUN2009 23:55:45
Store outputs in DB	Yes
Nb of level 1b prods	33
Nb of prods with errors	0

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

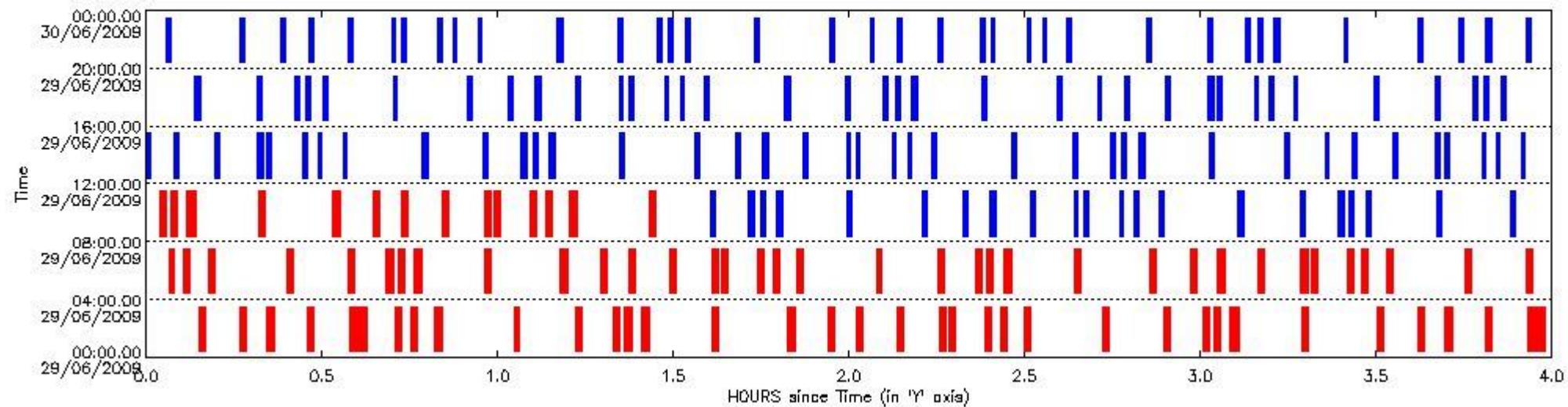
2.1 Level 0 products arrived in PCF (see template [here](#))

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-JUN-2009 00:08:56	17ZetAql	168	38318
29-JUN-2009 00:15:53	3AlpLyr	5	38318
29-JUN-2009 00:20:36	18DelCyg	144	38318
29-JUN-2009 00:27:30	5AlpCep	89	38318
29-JUN-2009 00:34:47	11BetCas	74	38318
29-JUN-2009 00:36:26	18AlpCas	68	38318
29-JUN-2009 00:42:35	57Gam1And	73	38318
29-JUN-2009 00:45:10	4BetTri	173	38318
29-JUN-2009 00:49:18	13AlpAri	50	38318
29-JUN-2009 01:02:46	DSA1066	0	38318
29-JUN-2009 01:13:13	AlpPhe	84	38319
29-JUN-2009 01:19:43	BetGru	63	38319
29-JUN-2009 01:21:41	AlpGru	31	38319
29-JUN-2009 01:24:29	GamGru	172	38319
29-JUN-2009 01:36:38	41PiSgr	155	38319

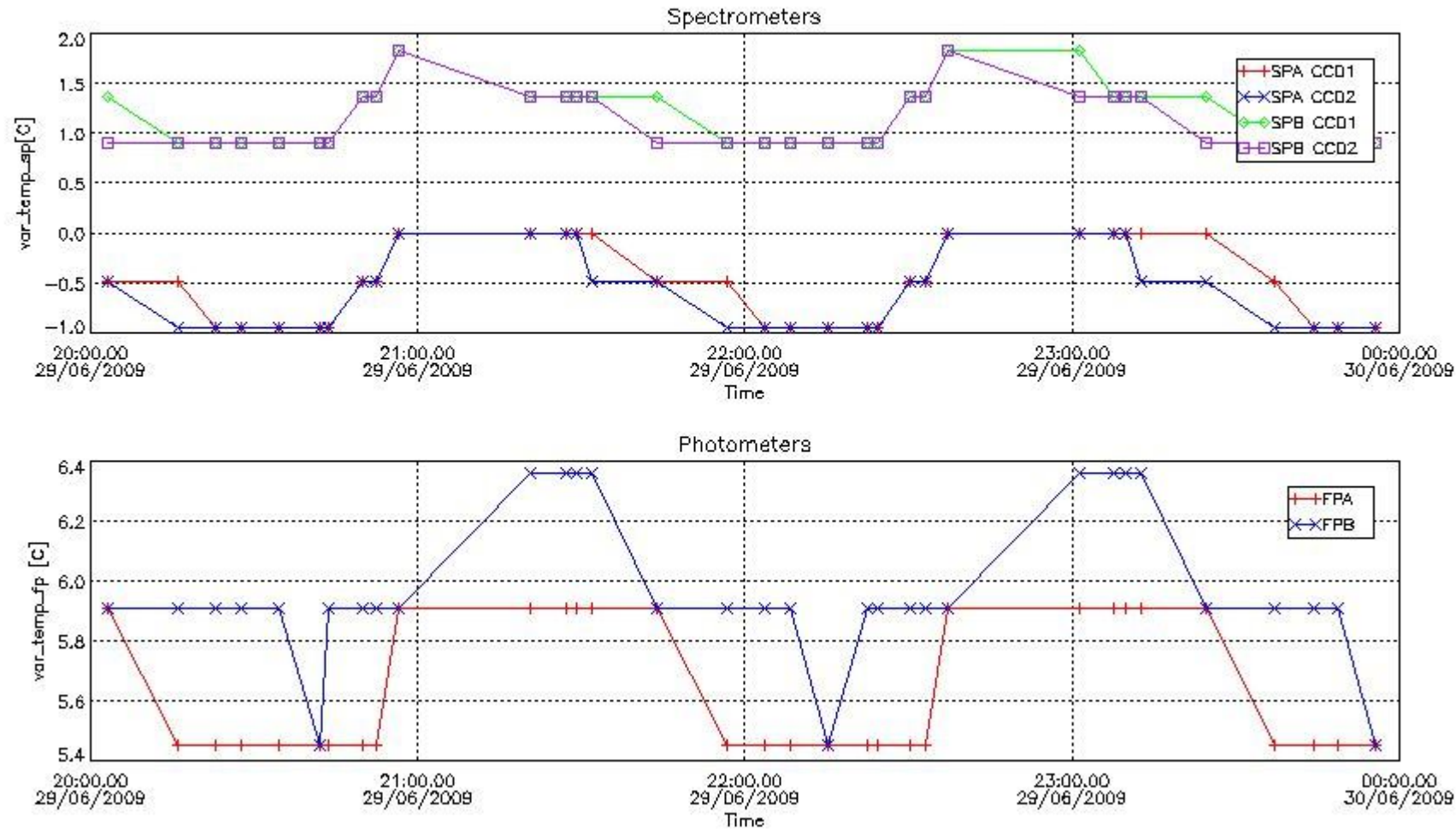
29-JUN-2009 01:49:31	17ZetAql	168	38319
29-JUN-2009 01:56:29	3AlpLyr	5	38319
29-JUN-2009 02:01:11	18DelCyg	144	38319
29-JUN-2009 02:08:05	5AlpCep	89	38319
29-JUN-2009 02:15:22	11BetCas	74	38319
29-JUN-2009 02:17:02	18AlpCas	68	38319
29-JUN-2009 02:23:11	57Gam1And	73	38319
29-JUN-2009 02:25:46	4BetTri	173	38319
29-JUN-2009 02:29:54	13AlpAri	50	38319
29-JUN-2009 02:43:23	DSA1066	0	38319
29-JUN-2009 02:53:49	AlpPhe	84	38320
29-JUN-2009 03:00:19	BetGru	63	38320
29-JUN-2009 03:02:18	AlpGru	31	38320
29-JUN-2009 03:05:06	GamGru	172	38320
29-JUN-2009 03:17:14	41PiSgr	155	38320
29-JUN-2009 03:30:06	17ZetAql	168	38320
29-JUN-2009 03:37:04	3AlpLyr	5	38320
29-JUN-2009 03:41:46	18DelCyg	144	38320
29-JUN-2009 03:48:41	5AlpCep	89	38320
29-JUN-2009 03:55:57	11BetCas	74	38320
29-JUN-2009 03:57:37	18AlpCas	68	38320
29-JUN-2009 04:03:47	57Gam1And	73	38320
29-JUN-2009 04:06:22	4BetTri	173	38320
29-JUN-2009 04:10:30	13AlpAri	50	38320
29-JUN-2009 04:23:59	DSA1066	0	38320
29-JUN-2009 04:34:26	AlpPhe	84	38321
29-JUN-2009 04:40:56	BetGru	63	38321
29-JUN-2009 04:42:54	AlpGru	31	38321
29-JUN-2009 04:45:43	GamGru	172	38321
29-JUN-2009 04:57:51	41PiSgr	155	38321
29-JUN-2009 05:10:42	17ZetAql	168	38321
29-JUN-2009 05:17:39	3AlpLyr	5	38321
29-JUN-2009 05:22:21	18DelCyg	144	38321
29-JUN-2009 05:29:16	5AlpCep	89	38321
29-JUN-2009 05:36:33	11BetCas	74	38321
29-JUN-2009 05:38:13	18AlpCas	68	38321
29-JUN-2009 05:44:23	57Gam1And	73	38321
29-JUN-2009 05:46:58	4BetTri	173	38321
29-JUN-2009 05:51:06	13AlpAri	50	38321
29-JUN-2009 06:04:36	DSA1066	0	38321
29-JUN-2009 06:15:03	AlpPhe	84	38322
29-JUN-2009 06:21:33	BetGru	63	38322
29-JUN-2009 06:23:31	AlpGru	31	38322
29-JUN-2009 06:26:20	GamGru	172	38322
29-JUN-2009 06:38:27	41PiSgr	155	38322
29-JUN-2009 06:51:17	17ZetAql	168	38322
29-JUN-2009 06:58:15	3AlpLyr	5	38322
29-JUN-2009 07:02:56	18DelCyg	144	38322
29-JUN-2009 07:09:51	5AlpCep	89	38322
29-JUN-2009 07:17:08	11BetCas	74	38322
29-JUN-2009 07:18:48	18AlpCas	68	38322
29-JUN-2009 07:24:59	57Gam1And	73	38322
29-JUN-2009 07:27:34	4BetTri	173	38322
29-JUN-2009 07:31:43	13AlpAri	50	38322
29-JUN-2009 07:45:13	DSA1066	0	38322
29-JUN-2009 07:55:40	AlpPhe	84	38323
29-JUN-2009 08:02:10	BetGru	63	38323
29-JUN-2009 08:04:08	AlpGru	31	38323
29-JUN-2009 08:06:57	GamGru	172	38323

29-JUN-2009 08:19:03	41PiSgr	155	38323
29-JUN-2009 08:31:52	17ZetAql	168	38323
29-JUN-2009 08:38:50	3AlpLyr	5	38323
29-JUN-2009 08:43:31	18DelCyg	144	38323
29-JUN-2009 08:50:26	5AlpCep	89	38323
29-JUN-2009 08:57:44	11BetCas	74	38323
29-JUN-2009 08:59:24	18AlpCas	68	38323
29-JUN-2009 09:05:35	57Gam1And	73	38323
29-JUN-2009 09:08:10	4BetTri	173	38323
29-JUN-2009 09:12:19	13AlpAri	50	38323
29-JUN-2009 09:25:50	DSA1066	0	38323

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_1PNPDE20090629_200317_000000462080_00200_38330_7204.N1	29-JUN-2009 20:03:17	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	38330	No
2	GOM_TRA_1PNPDE20090629_201601_000000472080_00200_38330_7205.N1	29-JUN-2009 20:16:01	Bright	47.000	168	17Zet Aql	2.9860	11000.	94	38330	No
3	GOM_TRA_1PNPDE20090629_202259_000000432080_00200_38330_7206.N1	29-JUN-2009 20:22:59	Bright	42.500	5	3Alp Lyr	0.033000	11000.	85	38330	No
4	GOM_TRA_1PNPDE20090629_202737_000000512080_00200_38330_7207.N1	29-JUN-2009 20:27:37	Bright	51.000	144	18Del Cyg	2.8600	11000.	102	38330	No
5	GOM_TRA_1PNPDE20090629_203434_000000452080_00200_38330_7208.N1	29-JUN-2009 20:34:34	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	38330	No
6	GOM_TRA_1PNPDE20090629_204153_000000422080_00200_38330_7209.N1	29-JUN-2009 20:41:53	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	38330	No
7	GOM_TRA_1PNPDE20090629_204334_000000412080_00200_38330_7210.N1	29-JUN-2009 20:43:34	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	38330	No
8	GOM_TRA_1PNPDE20090629_204947_000000372080_00200_38330_7211.N1	29-JUN-2009 20:49:47	Bright	36.500	73	57Gam1And	2.2600	13100.	73	38330	No
9	GOM_TRA_1PNPDE20090629_205223_000000372080_00200_38330_7212.N1	29-JUN-2009 20:52:23	Twilight	36.500	173	4Bet Tri	3.0040	8900.0	73	38330	No
10	GOM_TRA_1PNPDE20090629_205634_000000392080_00200_38330_7213.N1	29-JUN-2009 20:56:34	Dark	38.500	50	13Alp Ari	2.0070	4250.0	77	38330	No
11	GOM_TRA_1PNPDE20090629_212037_000000502080_00201_38331_7344.N1	29-JUN-2009 21:20:37	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	38331	No
12	GOM_TRA_1PNPDE20090629_212707_000000512080_00201_38331_7345.N1	29-JUN-2009 21:27:07	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	38331	No
13	GOM_TRA_1PNPDE20090629_212904_000000512080_00201_38331_7346.N1	29-JUN-2009 21:29:04	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	38331	No
14	GOM_TRA_1PNPDE20090629_213155_000000592080_00201_38331_7347.N1	29-JUN-2009 21:31:55	Straylight	58.500	172	Gam Gru	3.0030	13100.	117	38331	No
15	GOM_TRA_1PNPDE20090629_214353_000000462080_00201_38331_7348.N1	29-JUN-2009 21:43:53	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	38331	No
16	GOM_TRA_1PNPDE20090629_215636_000000522080_00201_38331_7349.N1	29-JUN-2009 21:56:36	Bright	51.500	168	17Zet Aql	2.9860	11000.	103	38331	No
17	GOM_TRA_1PNPDE20090629_220335_000000442080_00201_38331_7350.N1	29-JUN-2009 22:03:35	Bright	43.500	5	3Alp Lyr	0.033000	11000.	87	38331	No
18	GOM_TRA_1PNPDE20090629_220812_000000512080_00201_38331_7351.N1	29-JUN-2009 22:08:12	Bright	51.000	144	18Del Cyg	2.8600	11000.	102	38331	No
19	GOM_TRA_1PNPDE20090629_221510_000000432080_00201_38331_7352.N1	29-JUN-2009 22:15:10	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38331	No
20	GOM_TRA_1PNPDE20090629_222228_000000422080_00201_38331_7353.N1	29-JUN-2009 22:22:28	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	38331	No
21	GOM_TRA_1PNPDE20090629_222409_000000412080_00201_38331_7354.N1	29-JUN-2009 22:24:09	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	38331	No
22	GOM_TRA_1PNPDE20090629_223023_000000362080_00201_38331_7355.N1	29-JUN-2009 22:30:23	Bright	36.000	73	57Gam1And	2.2600	13100.	72	38331	No
23	GOM_TRA_1PNPDE20090629_223259_000000372080_00201_38331_7356.N1	29-JUN-2009 22:32:59	Twilight	36.500	173	4Bet Tri	3.0040	8900.0	73	38331	No
24	GOM_TRA_1PNPDE20090629_223710_000000392080_00201_38331_7357.N1	29-JUN-2009 22:37:10	Dark	39.000	50	13Alp Ari	2.0070	4250.0	78	38331	No
25	GOM_TRA_1PNPDE20090629_230114_000000512080_00202_38332_7501.N1	29-JUN-2009 23:01:14	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	38332	No
26	GOM_TRA_1PNPDE20090629_230744_000000522080_00202_38332_7502.N1	29-JUN-2009 23:07:44	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	38332	No
27	GOM_TRA_1PNPDE20090629_230941_000000512080_00202_38332_7503.N1	29-JUN-2009 23:09:41	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	38332	No
28	GOM_TRA_1PNPDE20090629_231232_000000582080_00202_38332_7504.N1	29-JUN-2009 23:12:32	Straylight	58.000	172	Gam Gru	3.0030	13100.	116	38332	No
29	GOM_TRA_1PNPDE20090629_232429_000000442080_00202_38332_7505.N1	29-JUN-2009 23:24:29	Bright	44.000	155	41Pi Sgr	2.9000	6600.0	88	38332	No
30	GOM_TRA_1PNPDE20090629_233712_000000512080_00202_38332_7506.N1	29-JUN-2009 23:37:12	Bright	50.500	168	17Zet Aql	2.9860	11000.	101	38332	No
31	GOM_TRA_1PNPDE20090629_234410_000000402080_00202_38332_7507.N1	29-JUN-2009 23:44:10	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	38332	No
32	GOM_TRA_1PNPDE20090629_234847_000000512080_00202_38332_7508.N1	29-JUN-2009 23:48:47	Bright	50.500	144	18Del Cyg	2.8600	11000.	101	38332	No
33	GOM_TRA_1PNPDE20090629_235545_000000442080_00202_38332_7509.N1	29-JUN-2009 23:55:45	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38332	No

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



4. Overview of dark signal processing per product

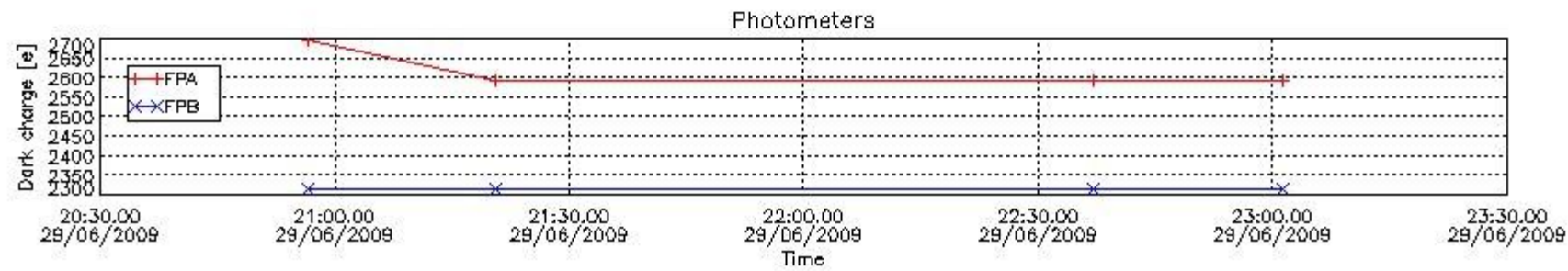
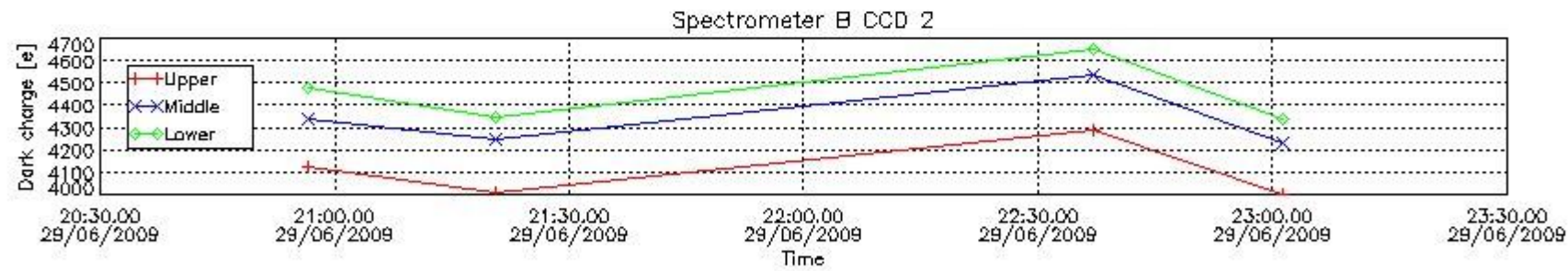
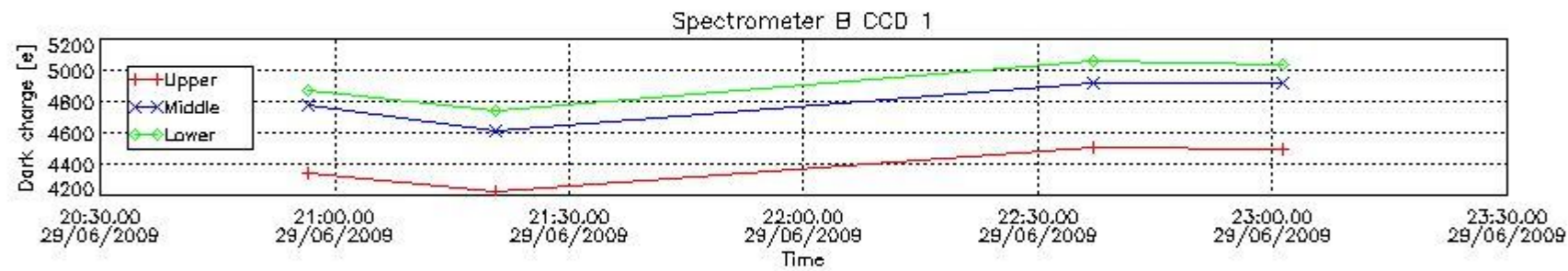
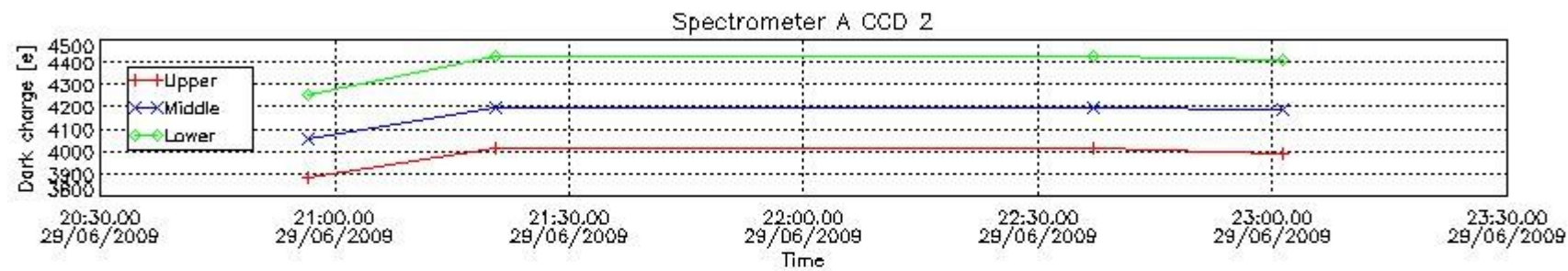
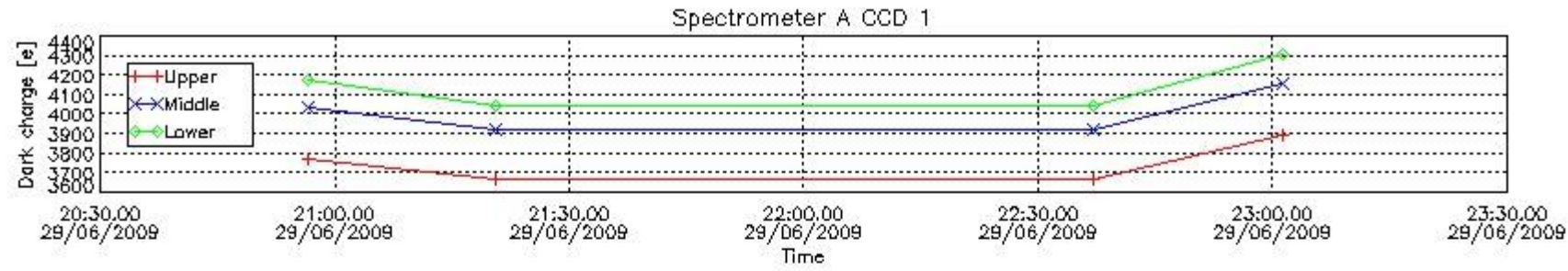
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090629_200317_000000462080_00200_38330_7204.N1	DC map used
GOM_TRA_1PNPDE20090629_201601_000000472080_00200_38330_7205.N1	DC map used
GOM_TRA_1PNPDE20090629_202259_000000432080_00200_38330_7206.N1	DC map used
GOM_TRA_1PNPDE20090629_202737_000000512080_00200_38330_7207.N1	DC map used
GOM_TRA_1PNPDE20090629_203434_000000452080_00200_38330_7208.N1	DC map used
GOM_TRA_1PNPDE20090629_204153_000000422080_00200_38330_7209.N1	DC map used
GOM_TRA_1PNPDE20090629_204334_000000412080_00200_38330_7210.N1	DC map used
GOM_TRA_1PNPDE20090629_204947_000000372080_00200_38330_7211.N1	DC map used
GOM_TRA_1PNPDE20090629_205223_000000372080_00200_38330_7212.N1	DC map used
GOM_TRA_1PNPDE20090629_205634_000000392080_00200_38330_7213.N1	DC map used

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



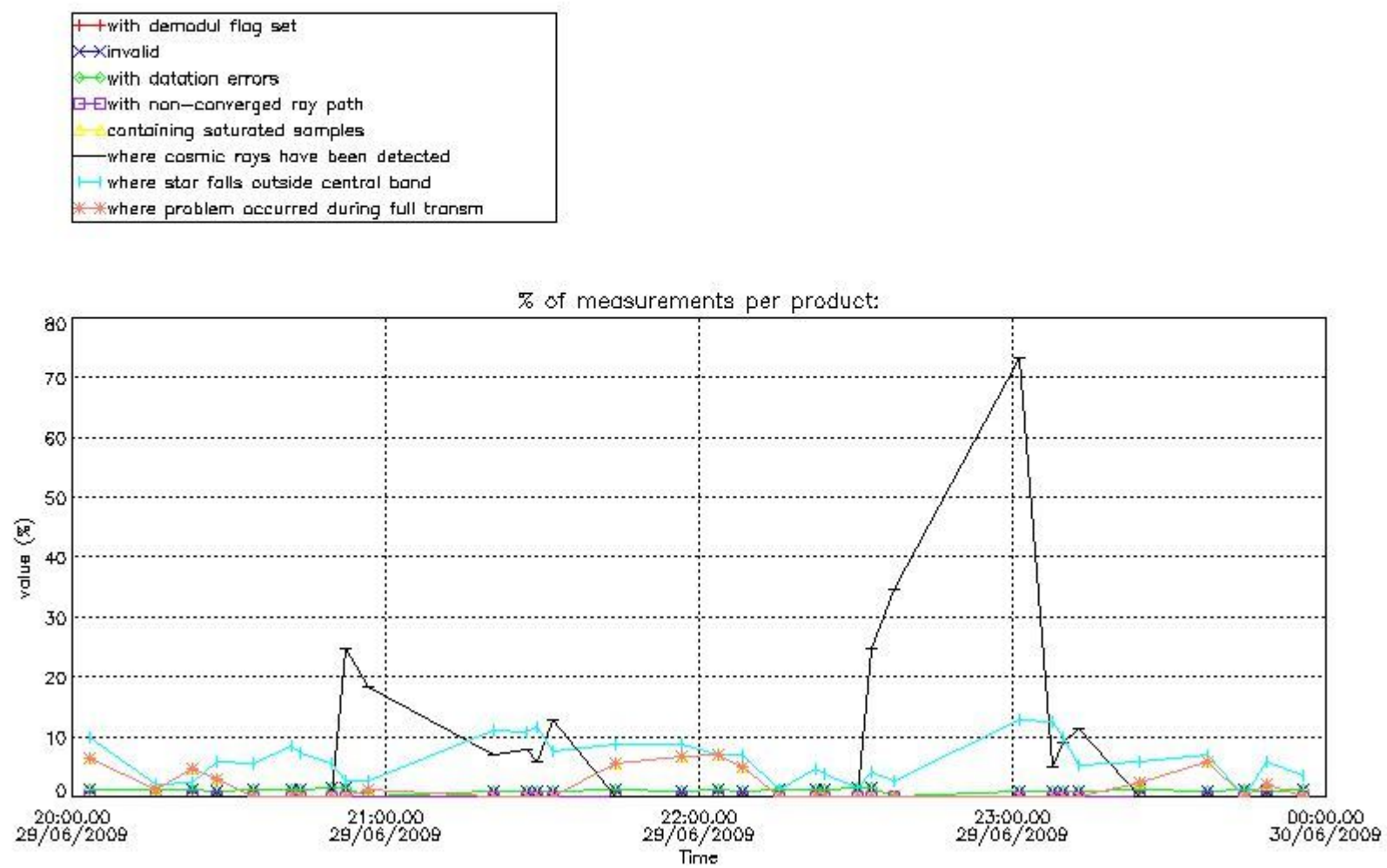
5. Demodulation flag and quality information monitoring

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

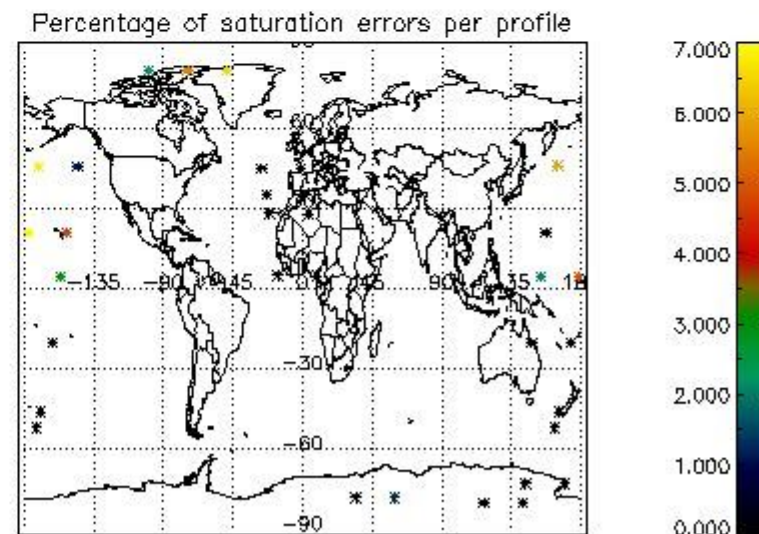
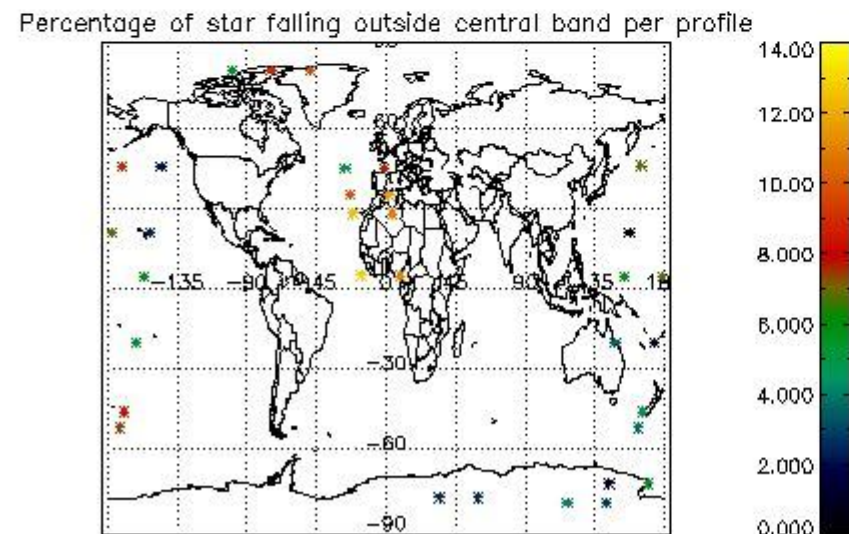
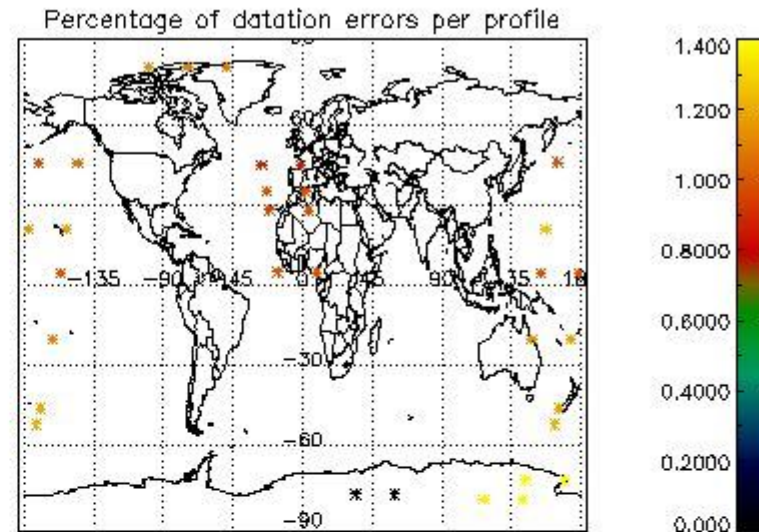
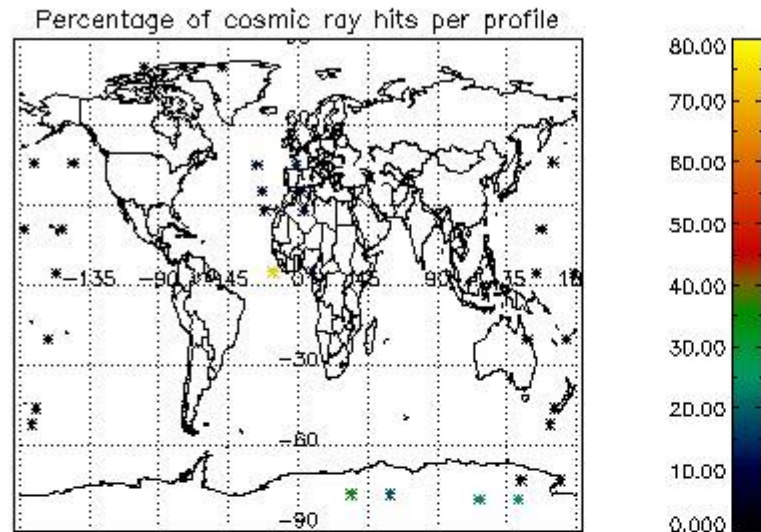
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.2424 %
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)



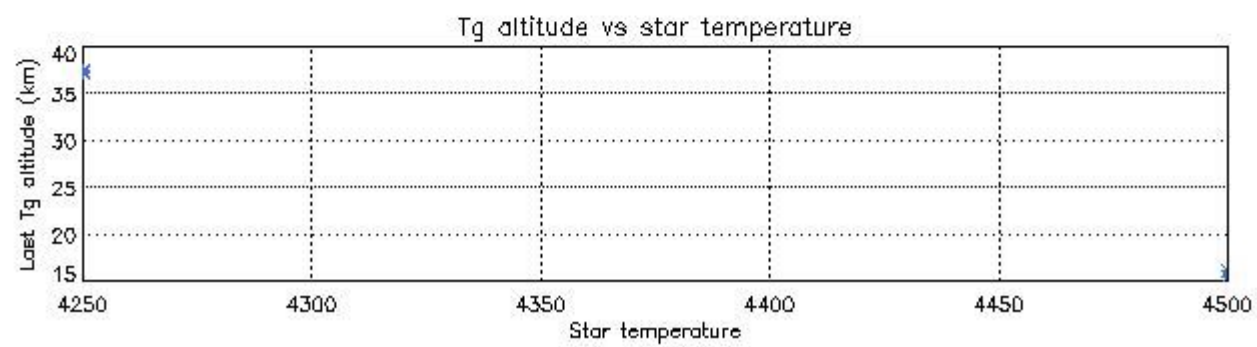
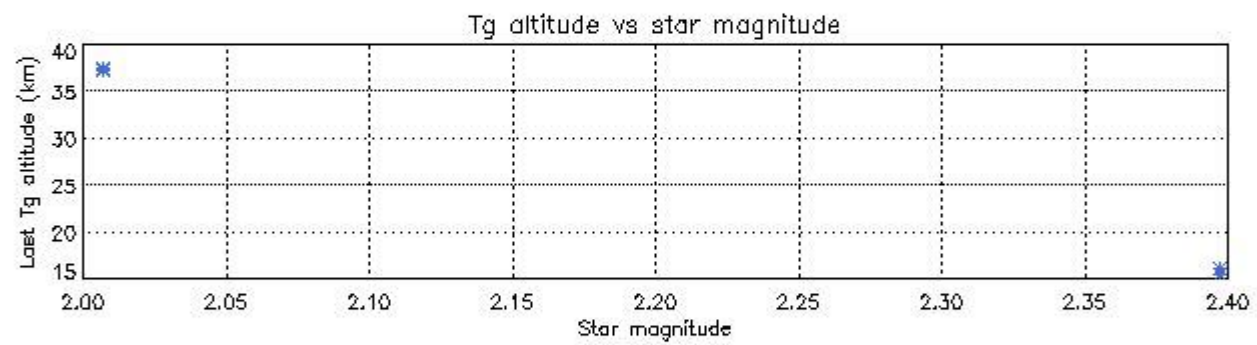
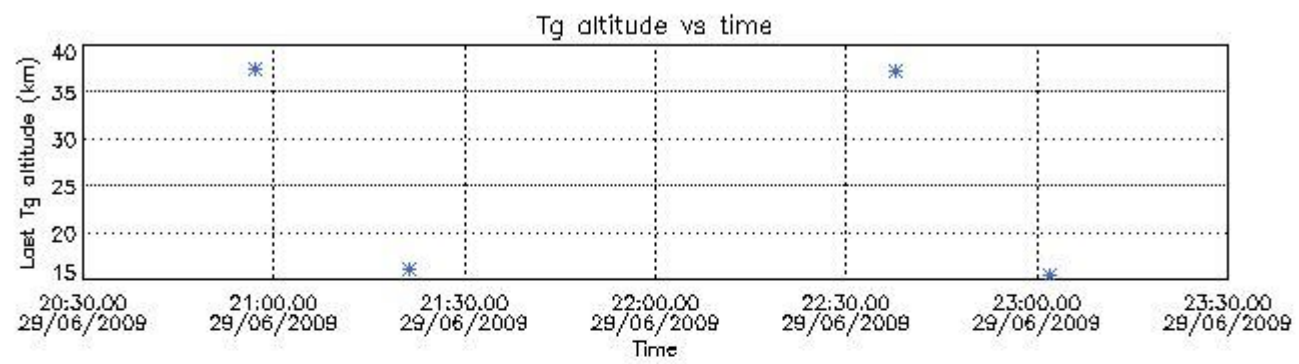
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	26.586	25.010	NaN
St. deviation:	12.440	6.1922	NaN
Maximum:	37.453	37.885	NaN
Minimum:	15.501	18.294	NaN
Number of data:	4.0000	21.000	NaN

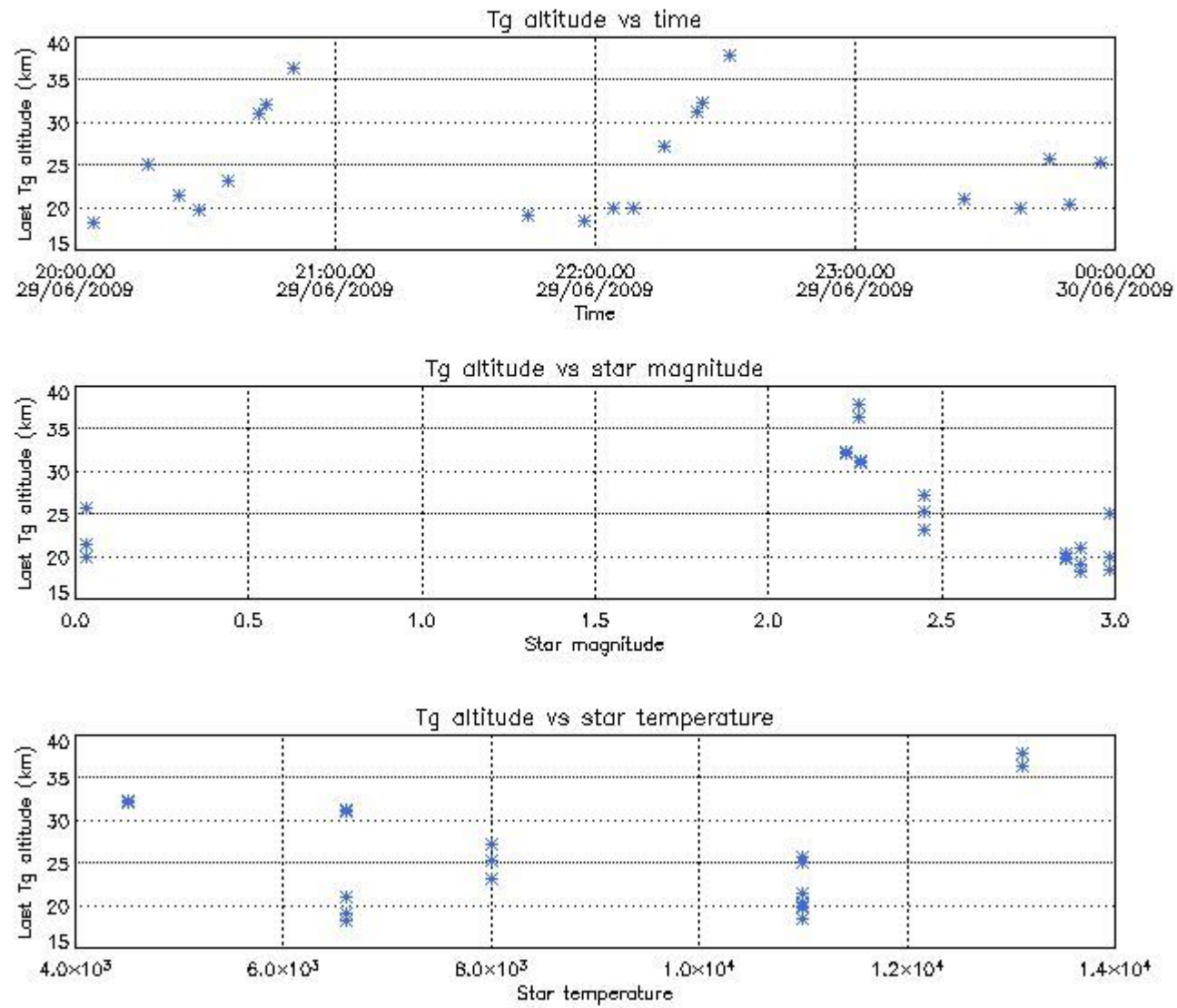
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

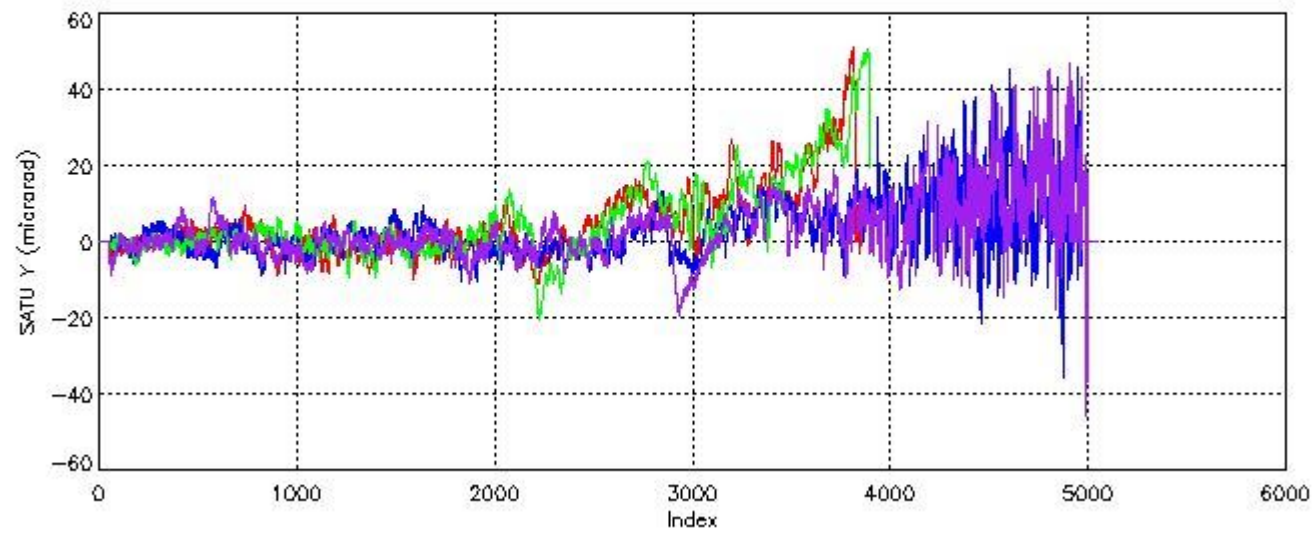
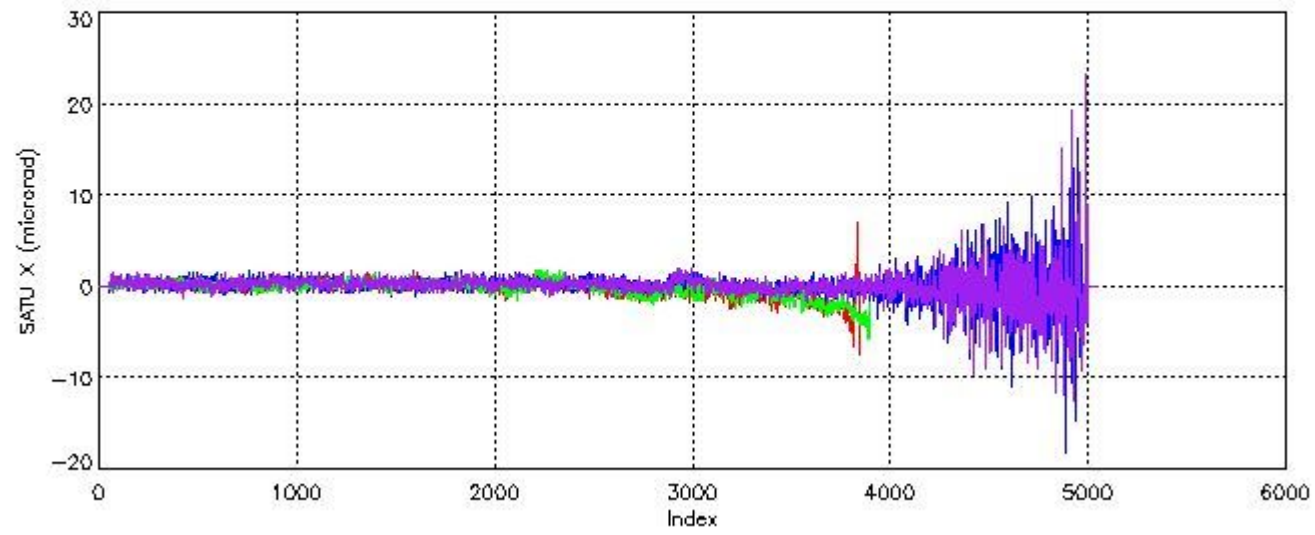


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25855	-0.019558	0.24490	-0.16234
St. deviation:	0.37694	2.8261	0.95305	3.2202
Maximum:	1.7000	11.400	7.2000	14.100
Minimum:	-1.3000	-9.0000	-6.0000	-12.300

Number of data:	4500.0	4500.0	23050.	23050.
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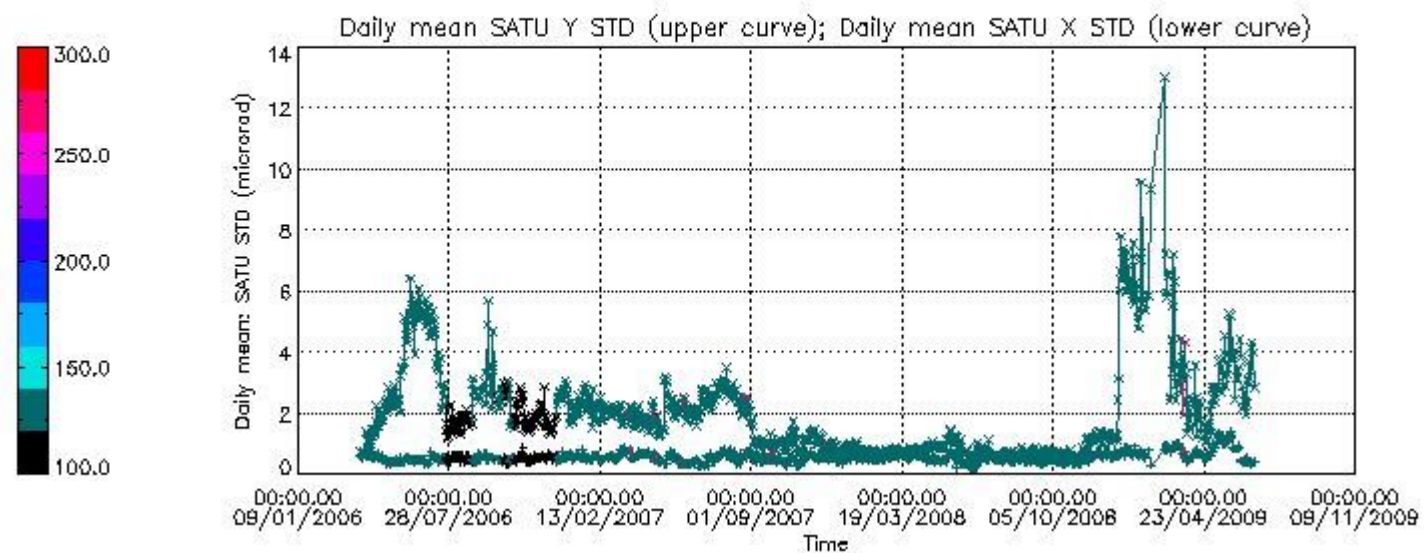
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

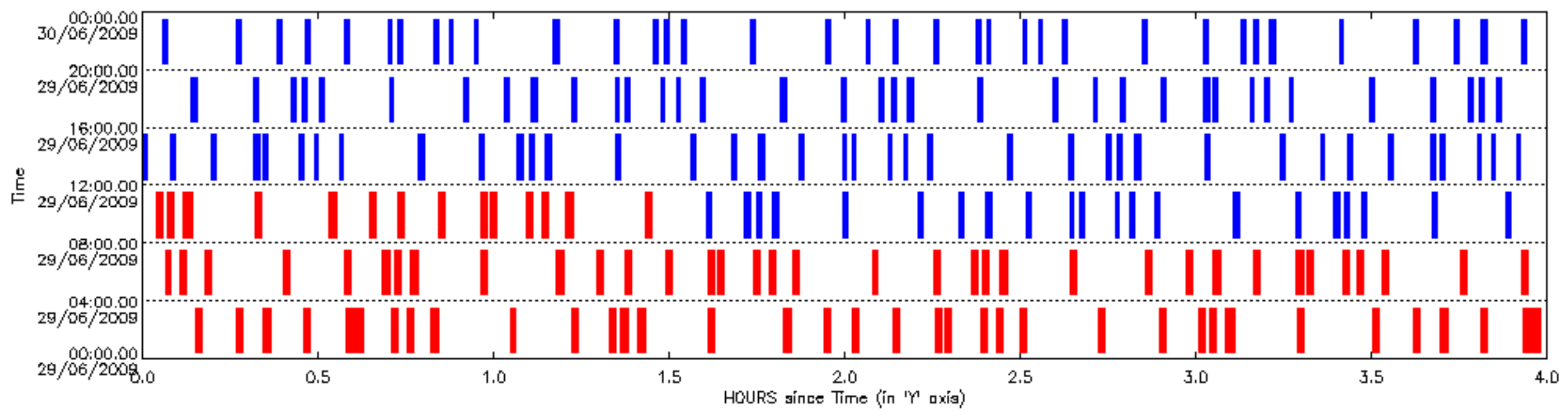
Lower curve: STD of SATU X axis

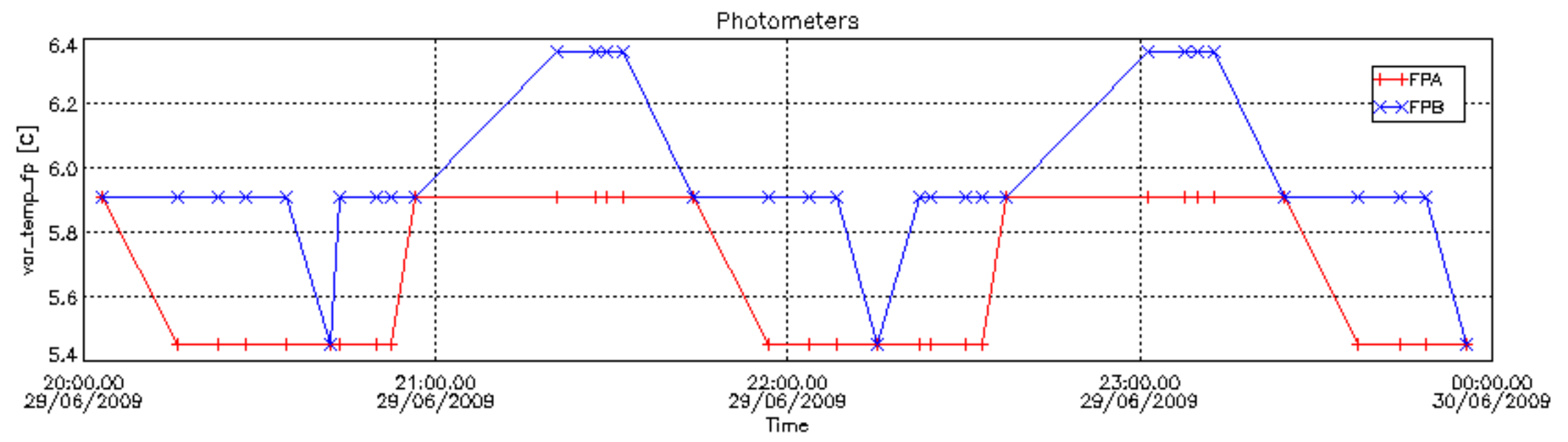
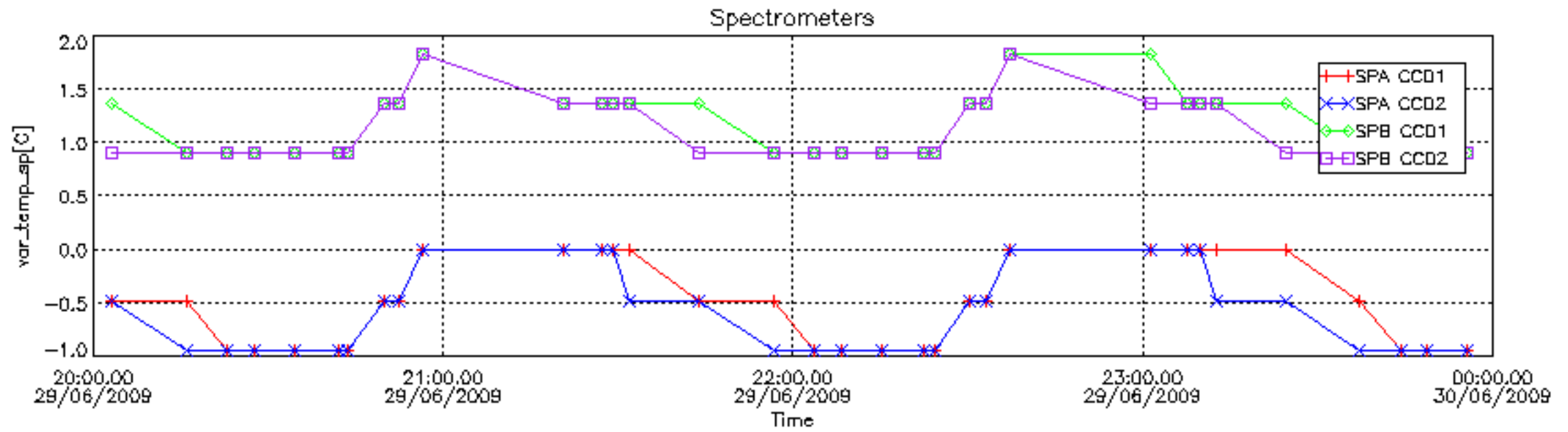


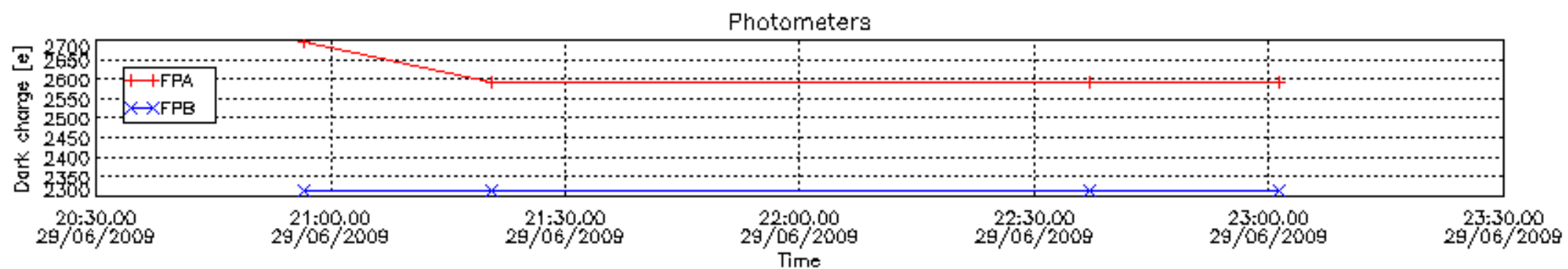
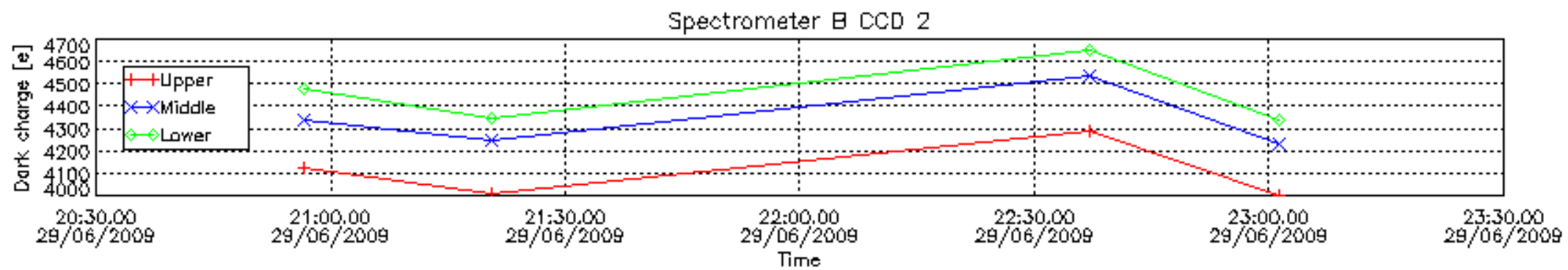
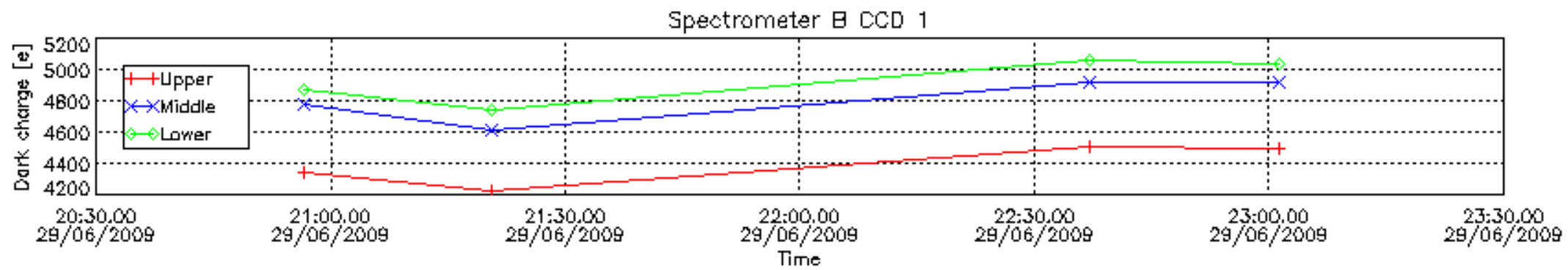
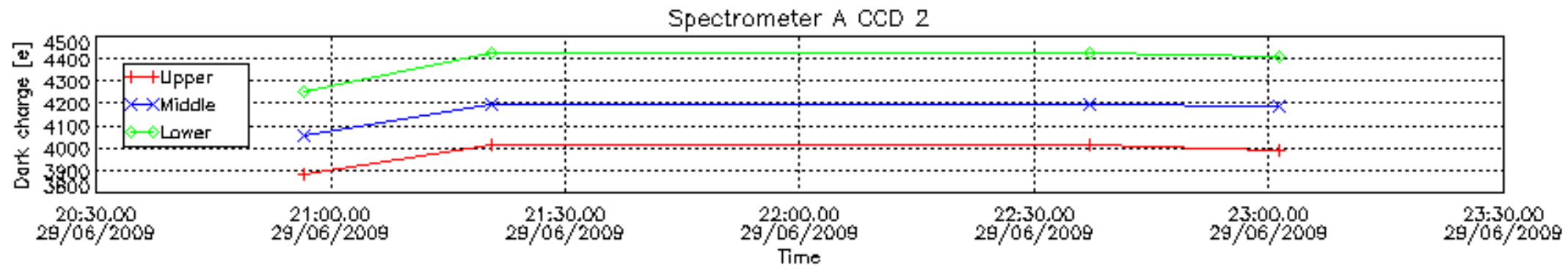
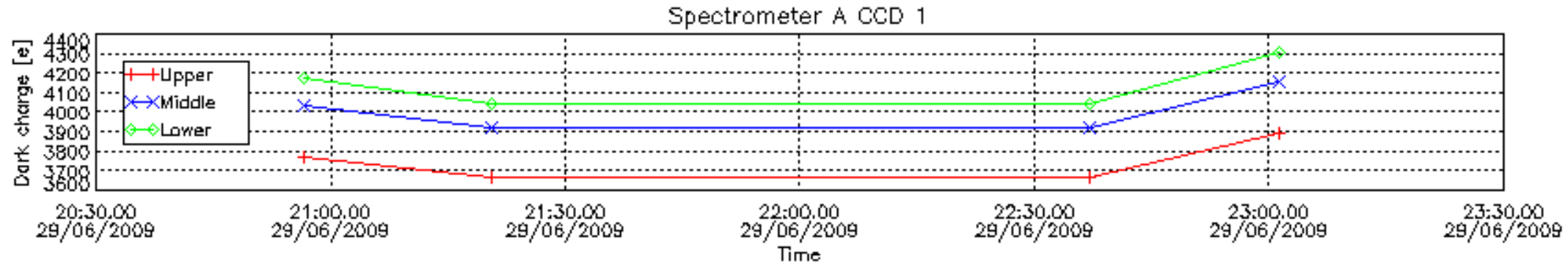
8. Auxiliary Data Files used for the production reported in section 2.4

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.

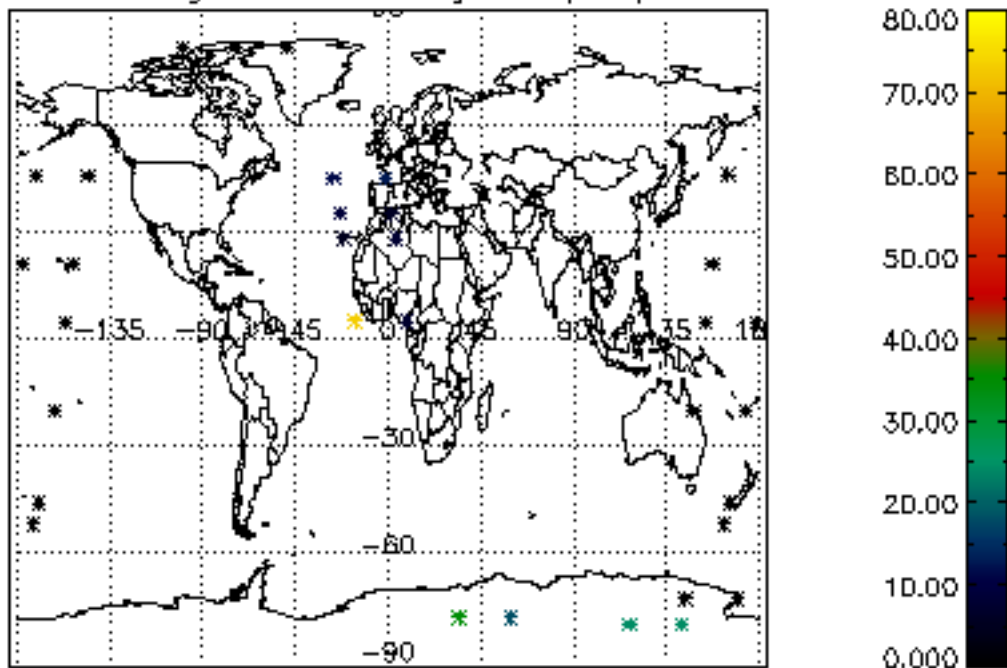
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090623_092031_20090621_000000_20100101_000000	1	29-JUN-2009 20:03:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-JUN-2009 20:03:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-JUN-2009 20:03:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-JUN-2009 20:03:17
ECMWF_FILE	AUX_ECF_AXNECM20090629_064112_20090629_150000_20090630_030000	1	29-JUN-2009 20:03:17
ECMWF_FILE	AUX_ECF_AXNECM20090629_064113_20090629_210000_20090630_090000	11	29-JUN-2009 21:20:37
OPTIONAL_ECMWF_FILE	MISSING	1	29-JUN-2009 20:03:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090629_195027_000038252080_00200_38330_8251.N1	1	29-JUN-2009 20:03:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090629_205932_000060572080_00200_38330_8252.N1	25	29-JUN-2009 23:01:14



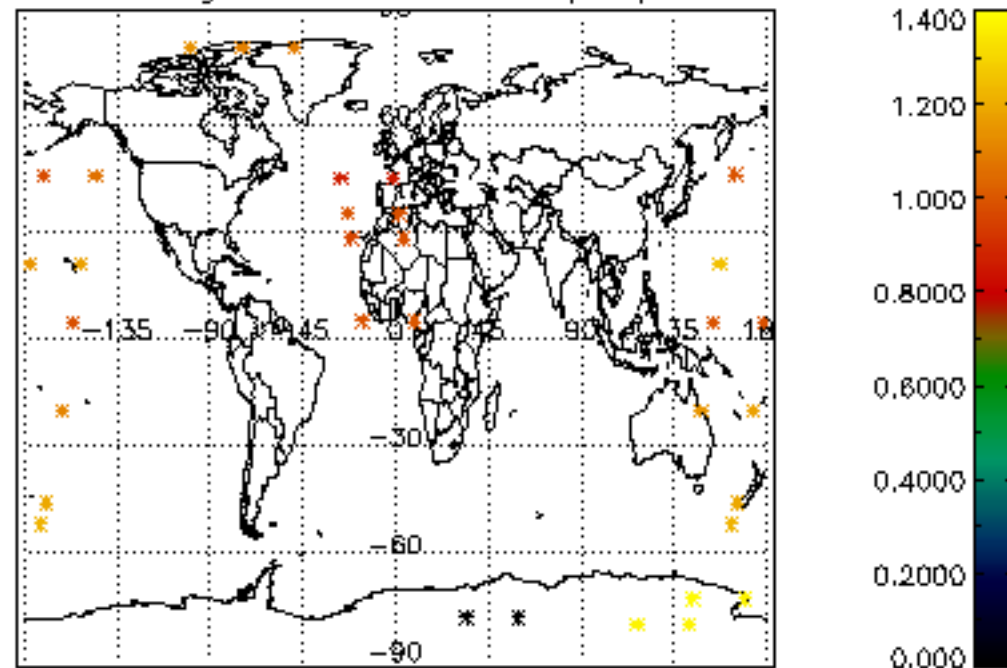




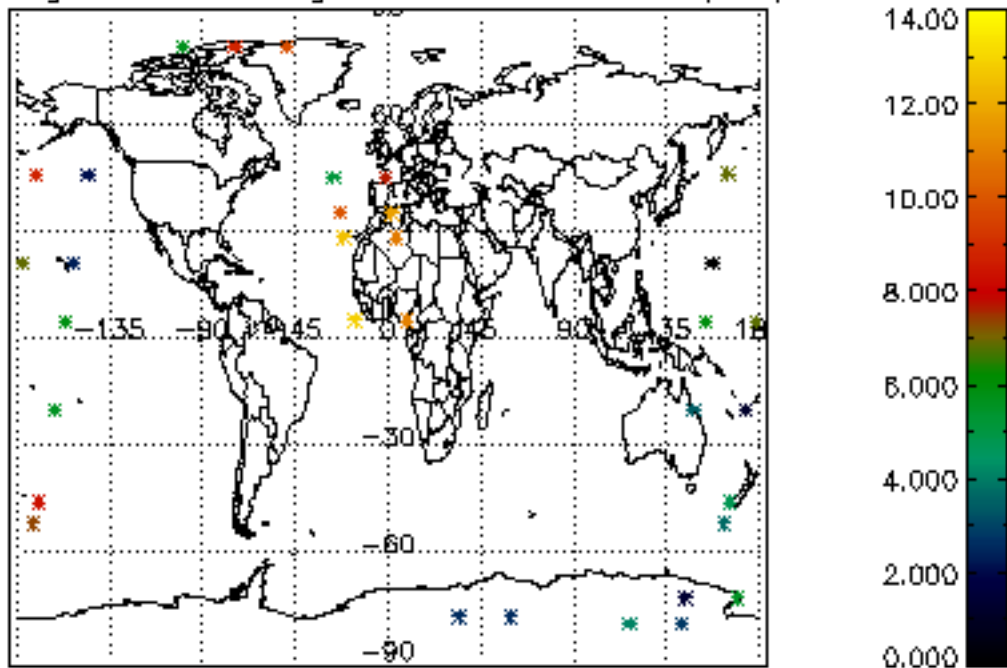
Percentage of cosmic ray hits per profile



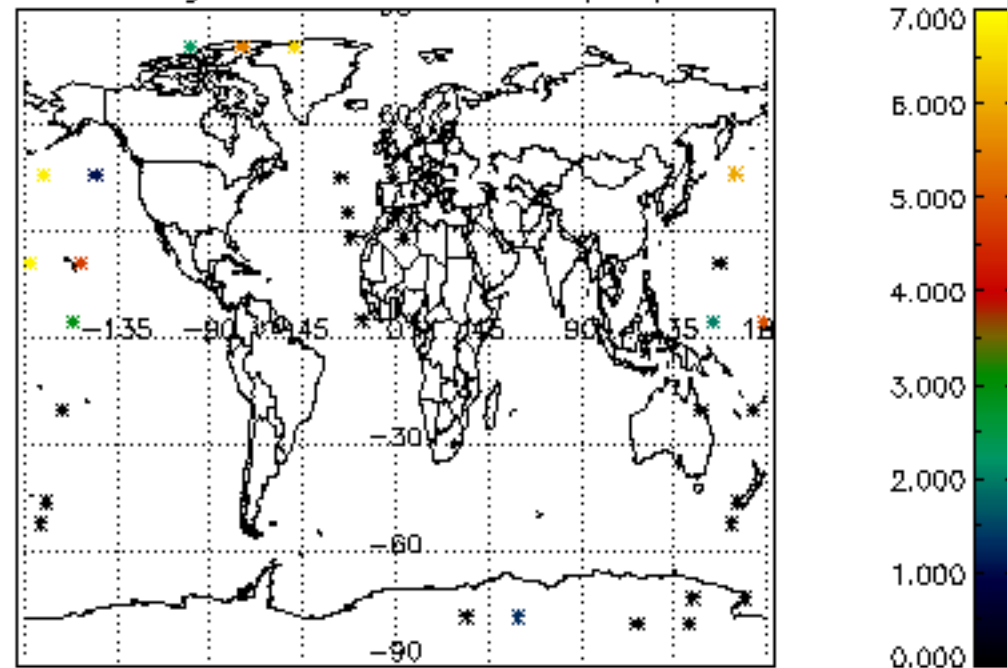
Percentage of datation errors per profile



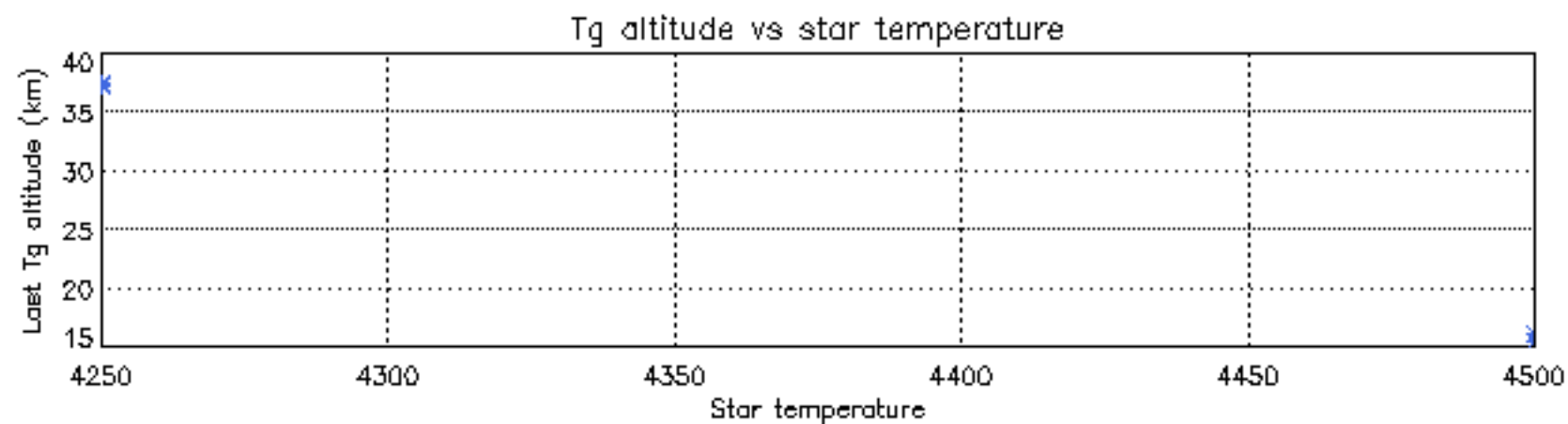
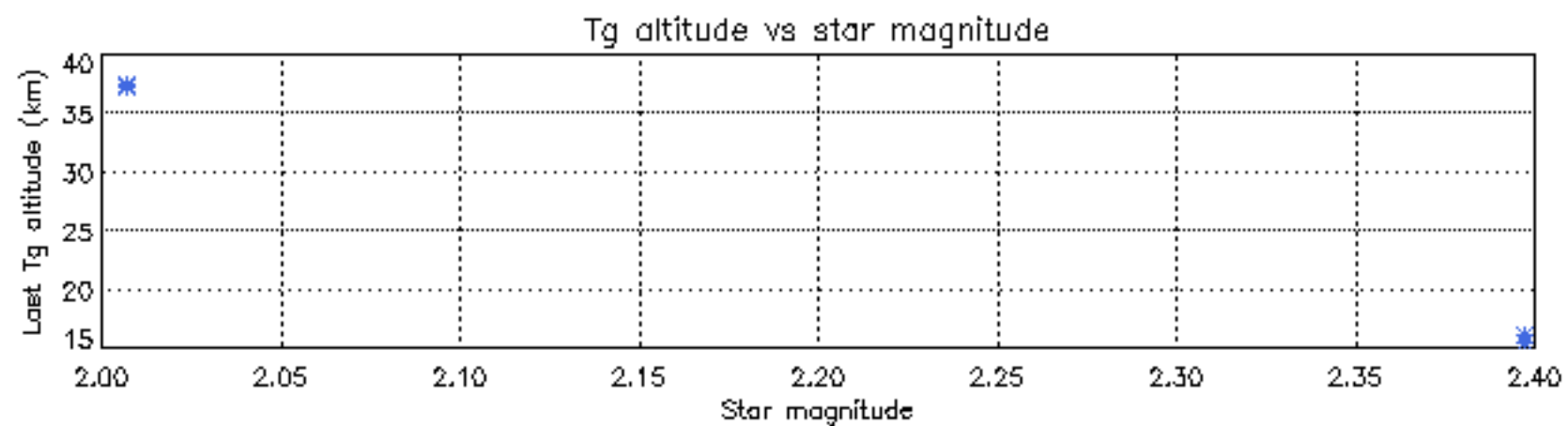
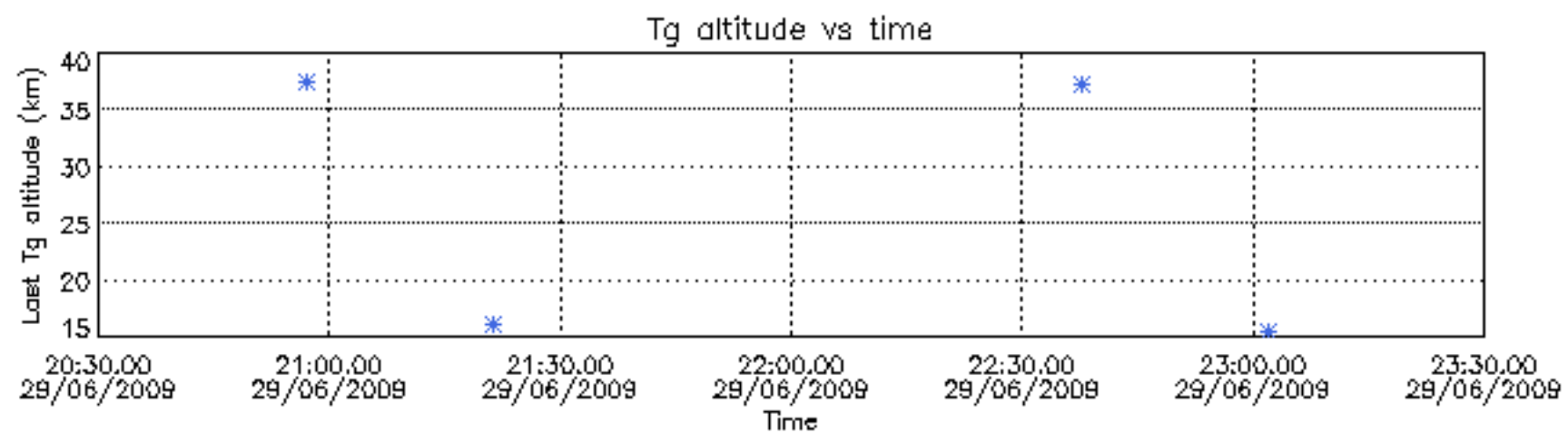
Percentage of star falling outside central band per profile



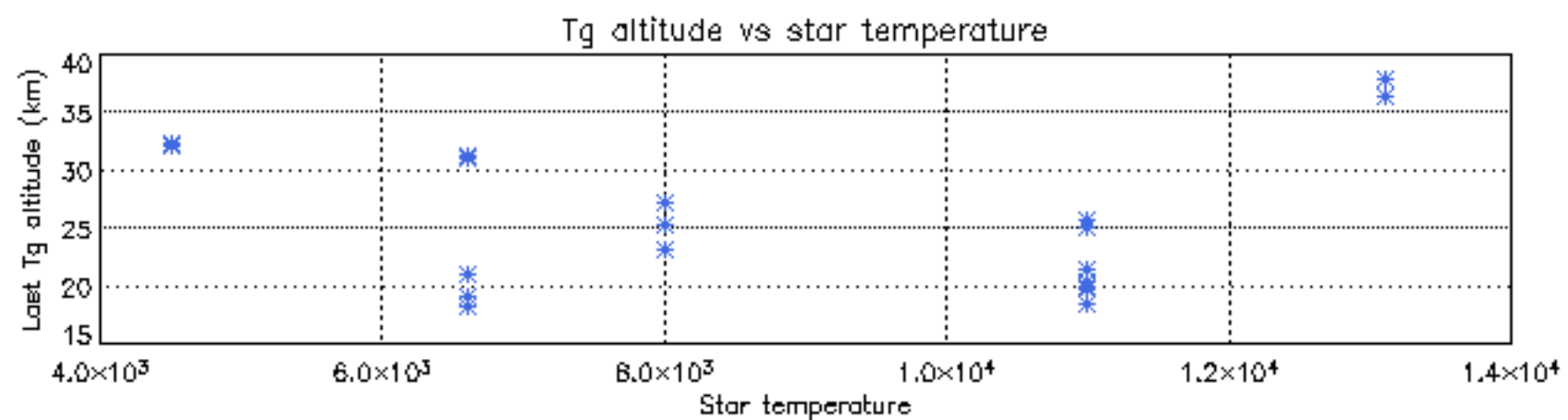
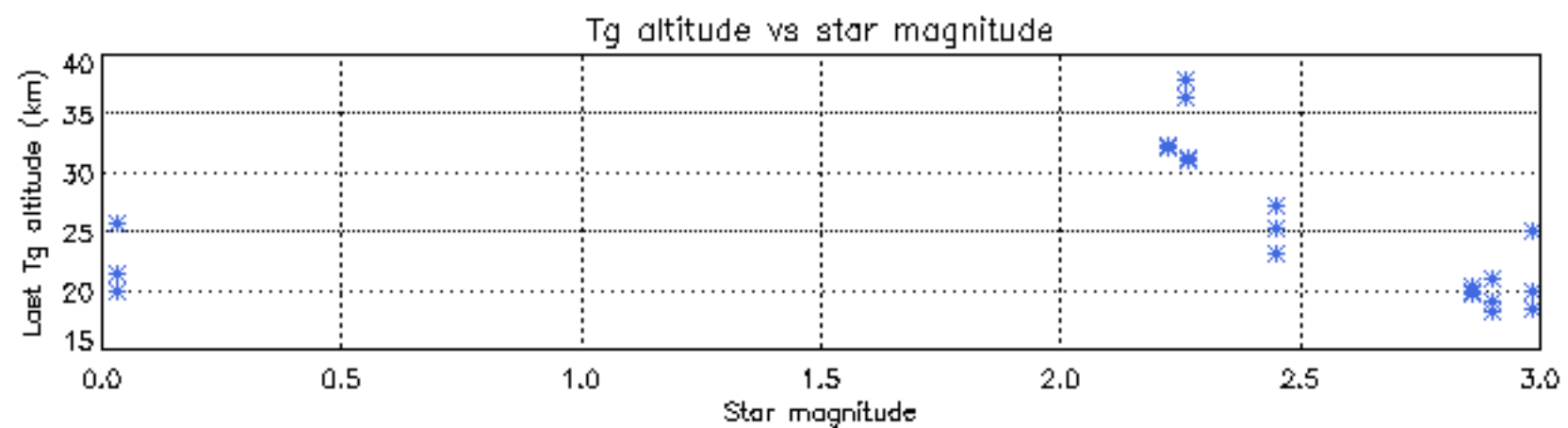
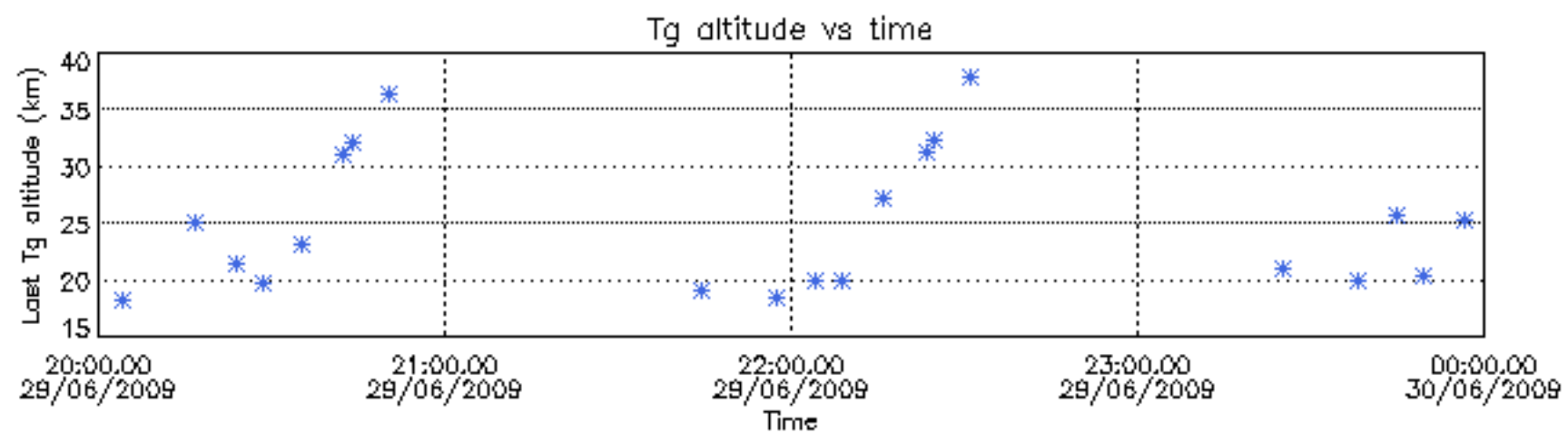
Percentage of saturation errors per profile

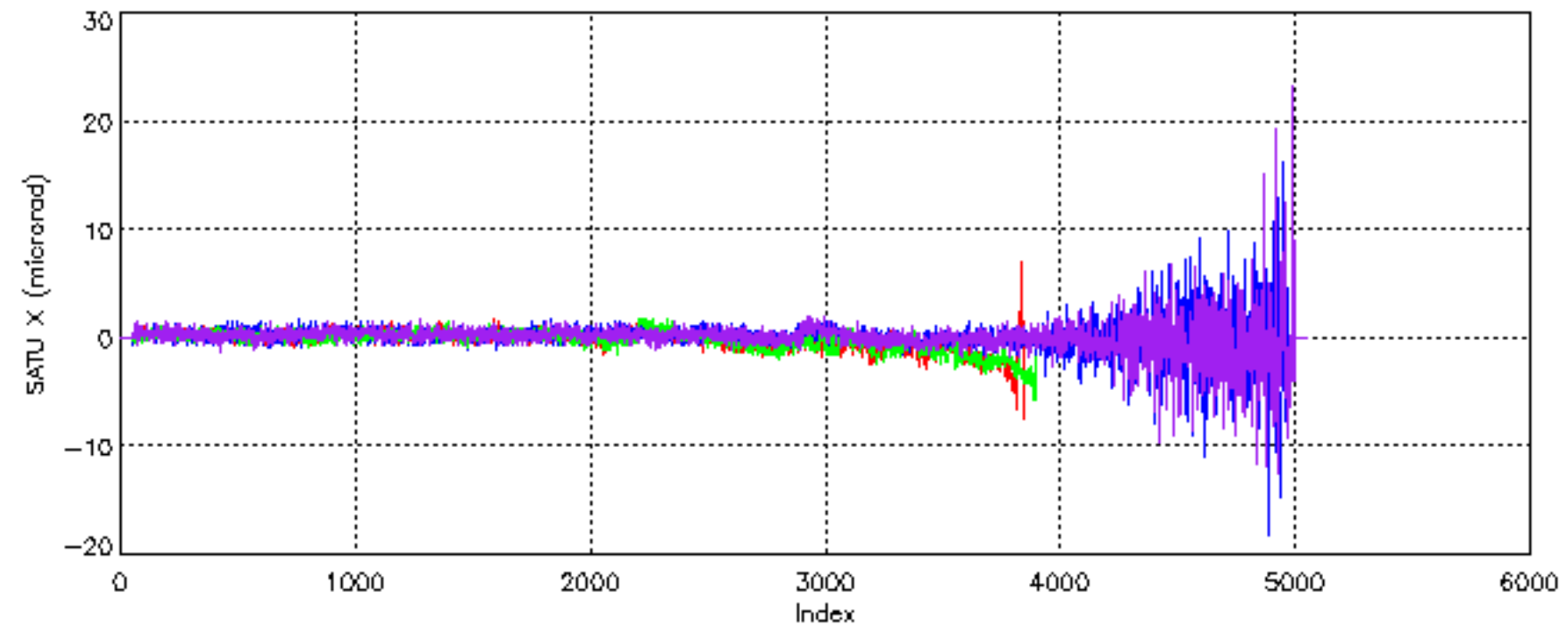


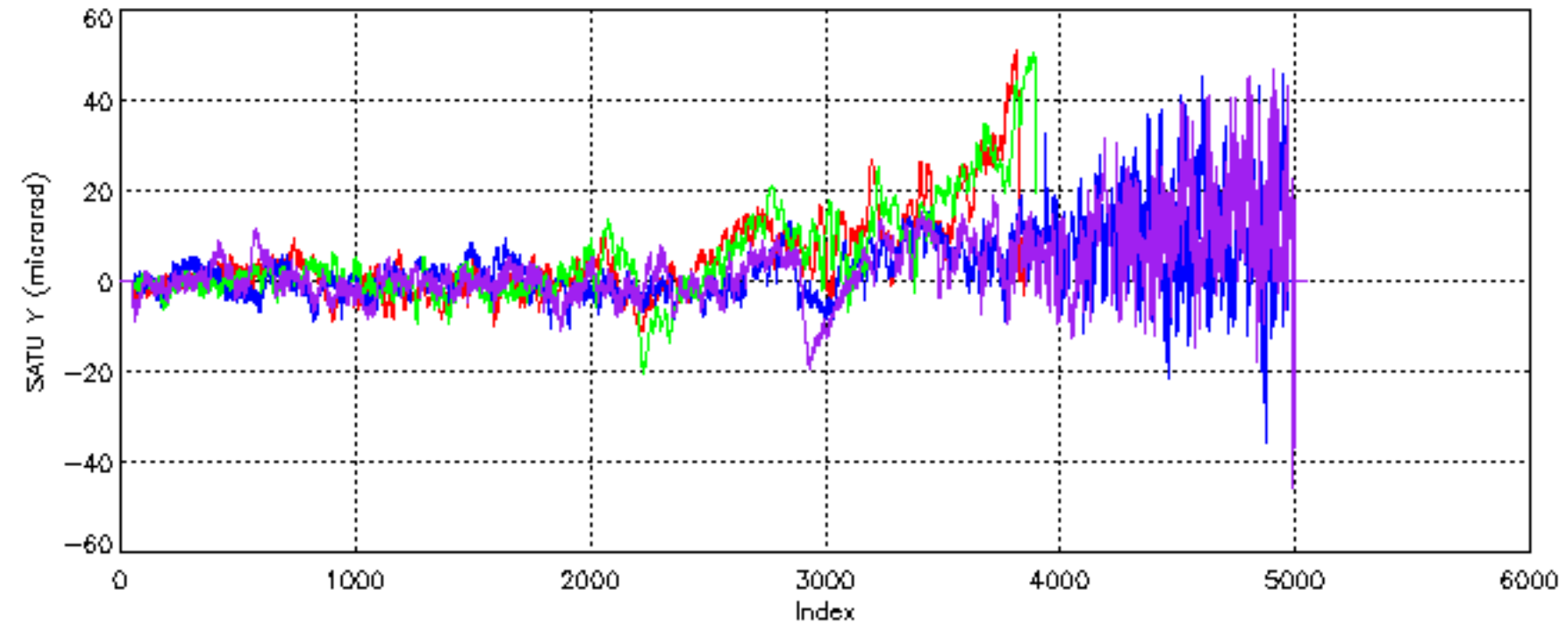
Tangent altitude at which the star is lost

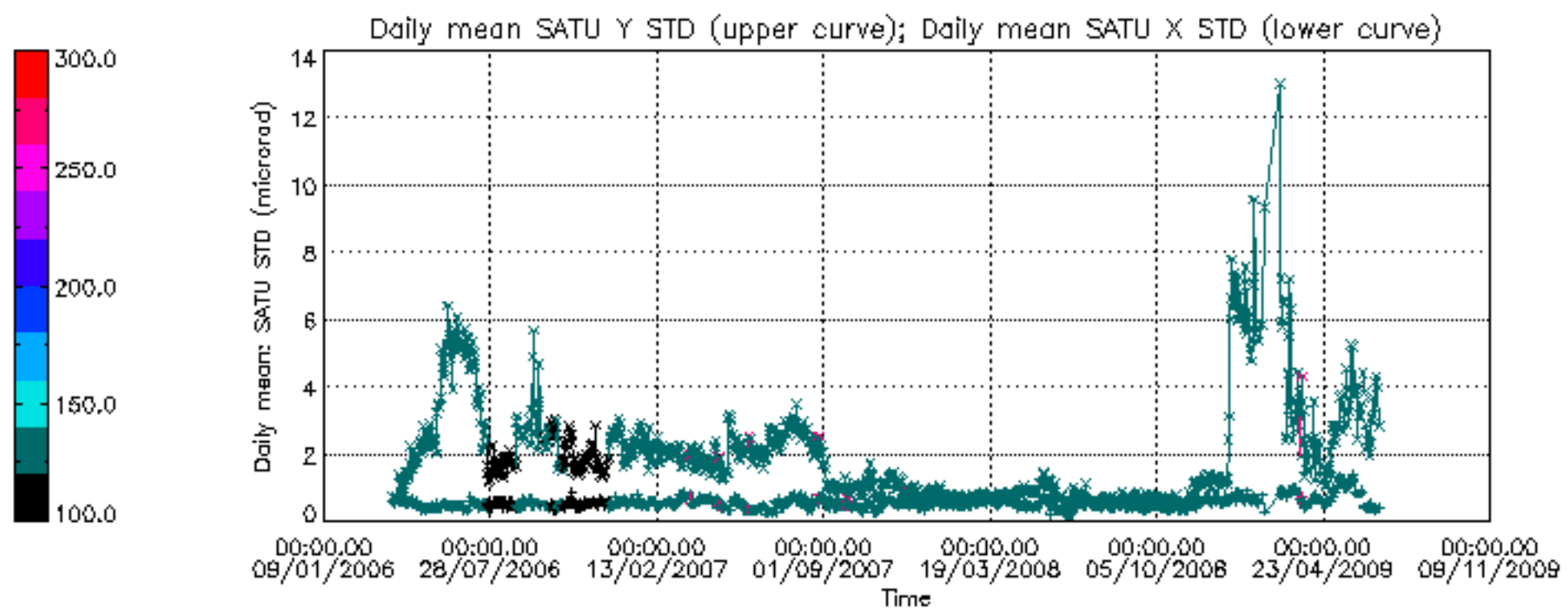


Tangent altitude at which the star is lost









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4; 2939.1; 05-JUN-2009 09:38:03; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37980
5; 3590.5; 05-JUN-2009 09:48:55; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37980
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3; 2500.5; 05-JUN-2009 11:11:21; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37981

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5; 2050.8; 06-JUN-2009 20:35:50; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38001
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9; 3577.4; 06-JUN-2009 21:01:16; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38001
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12; 4574.2; 06-JUN-2009 21:17:53; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38001
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 3; 1150.2; 06-JUN-2009 22:01:25; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;38002
 4; 1269.4; 06-JUN-2009 22:03:24; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38002
 5; 1333.1; 06-JUN-2009 22:04:28; Dark ; 35.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 71; 0;38002
 6; 1599.4; 06-JUN-2009 22:08:54; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38002
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 9; 2493.1; 06-JUN-2009 22:23:48; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38002
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 5; 1270.2; 06-JUN-2009 23:44:01; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38003
 6; 1333.7; 06-JUN-2009 23:45:04; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38003
 7; 1599.8; 06-JUN-2009 23:49:31; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38003
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 9; 2212.4; 06-JUN-2009 23:59:43; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38003
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 11; 2926.5; 07-JUN-2009 00:11:37; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38003
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 6; 1334.3; 07-JUN-2009 01:25:41; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38004
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 4; -1132.7; 07-JUN-2009 02:25:10; Dark ; 32.0; 140; 88Gam Peg ; 2.83; 26000;occ; 64; 0;38004

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7; 273.5; 07-JUN-2009 02:48:36; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38005
8; 1152.1; 07-JUN-2009 03:03:15; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38005
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4; 205.9; 10-JUN-2009 23:00:25; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38060
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11; 7209.7; 10-JUN-2009 09:51:45; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38051
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3; 2900.5; 10-JUN-2009 13:41:44; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38054
4; 3901.4; 10-JUN-2009 13:58:25; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38054
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4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
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6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
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5; 3897.4; 11-JUN-2009 13:26:44; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38068
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3; 2023.3; 11-JUN-2009 19:37:53; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38072
4; 2179.3; 11-JUN-2009 19:40:29; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38072
5; 2892.1; 11-JUN-2009 19:52:22; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38072
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13; 6376.5; 11-JUN-2009 20:50:27; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38072
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4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
5; 342.9; 12-JUN-2009 01:52:17; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38076
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7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
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5; 105.6; 12-JUN-2009 03:28:55; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38077
6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
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8; 440.1; 12-JUN-2009 03:34:30; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38077
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11; 2021.9; 12-JUN-2009 04:00:51; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38077
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13; 2890.2; 12-JUN-2009 04:15:20; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38077
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5; 107.1; 12-JUN-2009 05:09:33; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38078
6; 223.1; 12-JUN-2009 05:11:29; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38078
7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
8; 441.6; 12-JUN-2009 05:15:07; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38078
9; 1185.1; 12-JUN-2009 05:27:31; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38078
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11; 2021.7; 12-JUN-2009 05:41:27; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38078
12; 2176.8; 12-JUN-2009 05:44:02; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38078
13; 2889.6; 12-JUN-2009 05:55:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38078
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
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6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
7; 3891.8; 12-JUN-2009 21:18:01; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
5; 355.3; 12-JUN-2009 21:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38088
6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
9; 2018.4; 12-JUN-2009 22:27:23; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38088
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11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
5; 1185.5; 12-JUN-2009 08:48:43; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38080
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 3; 2888.4; 12-JUN-2009 09:17:06; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38080
 4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080
 5; 3893.9; 12-JUN-2009 09:33:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38080
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 5; 445.6; 12-JUN-2009 10:16:59; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38081
 6; 1186.1; 12-JUN-2009 10:29:19; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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 9; 2017.9; 13-JUN-2009 00:07:59; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38089
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13; 7222.4; 12-JUN-2009 12:09:56; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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 5; 3893.2; 12-JUN-2009 14:35:38; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38083

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 5; 3487.6; 16-JUN-2009 09:01:13; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38137
 6; 3875.5; 16-JUN-2009 09:07:41; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38137
 7; 3959.3; 16-JUN-2009 09:09:05; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38137
 8; 4412.0; 16-JUN-2009 09:16:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38137
 9; 5002.2; 16-JUN-2009 09:26:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38137
 10; 5572.2; 16-JUN-2009 09:35:58; Dark ; 33.5; 52; 16Bet Cet ; 2.04; 4500;occ; 67; 0;38137
 11; 6317.5; 16-JUN-2009 09:48:23; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38137
 12; 6440.8; 16-JUN-2009 09:50:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137
 13; 6558.5; 16-JUN-2009 09:52:24; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38137
 14; 7275.9; 16-JUN-2009 10:04:21; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137
 15; 7363.4; 16-JUN-2009 10:05:49; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137
 16; 7469.8; 16-JUN-2009 10:07:35; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38137

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 4; 2893.3; 16-JUN-2009 10:31:55; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38138
 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138
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 11; 6318.5; 16-JUN-2009 11:29:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38138
 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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 2; 2155.6; 16-JUN-2009 12:00:13; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38139
 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139
 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139
 5; 3486.1; 16-JUN-2009 12:22:23; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38139
 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139
 7; 3958.5; 16-JUN-2009 12:30:16; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38139
 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139
 10; 5574.0; 16-JUN-2009 12:57:11; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38139
 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139
 12; 6442.7; 16-JUN-2009 13:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38139
 13; 6561.6; 16-JUN-2009 13:13:39; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38139
 14; 7276.7; 16-JUN-2009 13:25:34; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38139
 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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 2; 2005.2; 16-JUN-2009 13:38:18; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38140
 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140
 4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140
 5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140

6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140
7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140
8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140
9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140
10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140
11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140
12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140
13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140
14; 6563.0; 16-JUN-2009 14:54:16; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38140
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3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141
4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141
5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141
6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141
7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141
8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141
9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141
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11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141
12; 5004.4; 16-JUN-2009 16:08:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38141
13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141
14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141
15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141
16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142
4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142
5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142
6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142
7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142
8; 3484.2; 16-JUN-2009 17:24:09; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38142
9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142
10; 3958.0; 16-JUN-2009 17:32:03; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38142
11; 4412.2; 16-JUN-2009 17:39:37; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38142
12; 5470.4; 16-JUN-2009 17:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38142
13; 5577.4; 16-JUN-2009 17:59:02; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38142
14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142
15; 6445.9; 16-JUN-2009 18:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38142
16; 6565.6; 16-JUN-2009 18:15:31; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38142

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3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143
4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143
5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143
6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143
7; 2890.9; 16-JUN-2009 18:54:52; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38143
8; 3483.5; 16-JUN-2009 19:04:45; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38143
9; 3873.6; 16-JUN-2009 19:11:15; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38143
10; 3957.9; 16-JUN-2009 19:12:39; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38143
11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143
12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143
13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143
14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143
15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143
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3; 290.3; 17-JUN-2009 00:53:55; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38147
4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147
5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147
6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
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13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
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3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
4; 414.4; 17-JUN-2009 02:36:35; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38148
5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
5; -558.5; 17-JUN-2009 04:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38148
6; -452.4; 17-JUN-2009 04:02:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38148
7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
10; 1244.8; 17-JUN-2009 04:31:01; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38149
11; 1331.4; 17-JUN-2009 04:32:28; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38149
12; 1436.9; 17-JUN-2009 04:34:13; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38149
13; 2003.1; 17-JUN-2009 04:43:40; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38149
14; 2152.8; 17-JUN-2009 04:46:09; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38149
15; 2784.2; 17-JUN-2009 04:56:41; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38149
16; 2888.0; 17-JUN-2009 04:58:24; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38149
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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
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13; 6455.7; 17-JUN-2009 10:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38152

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 5; 554.2; 18-JUN-2009 02:07:18; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38162
 6; 1250.0; 18-JUN-2009 02:18:54; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38162
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11; 2772.7; 18-JUN-2009 02:44:16; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38162
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13; 2000.4; 18-JUN-2009 04:12:00; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38163
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16; 2881.4; 18-JUN-2009 04:26:41; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38163
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13; 2000.2; 18-JUN-2009 05:52:36; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38164
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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174
 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
 8; 1443.2; 18-JUN-2009 22:29:18; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38174
 9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174
 10; 2146.3; 18-JUN-2009 22:41:01; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38174
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 4; 440.9; 18-JUN-2009 23:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38175
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 9; 1998.0; 19-JUN-2009 00:19:09; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38175
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 12; 2875.6; 19-JUN-2009 00:33:46; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38175
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 5; 3468.5; 18-JUN-2009 07:57:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38165
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3; -1764.7; 21-JUN-2009 06:36:12; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38207
4; -1620.4; 21-JUN-2009 06:38:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38207
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8; 4271.0; 21-JUN-2009 08:16:47; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38208
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14; 6624.0; 29-JUN-2009 19:48:27; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38329
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6; 1478.2; 30-JUN-2009 01:05:05; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;38333
7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
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14; 4423.9; 30-JUN-2009 01:54:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38333
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 8; 475.5; 30-JUN-2009 04:09:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38335
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10; 763.9; 30-JUN-2009 04:14:23; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38335
11; 1478.7; 30-JUN-2009 04:26:18; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;38335
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 8; 4266.9; 30-JUN-2009 21:58:45; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38345
 9; 4424.7; 30-JUN-2009 22:01:23; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38345
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