

GOMOS Daily Report 10-JUL-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	13JUL2009 04:41:25
Data source version	GOMOS/5.00
Start time of products	10JUL2009 00:09:31
Stop time of products	10JUL2009 23:58:40
Store outputs in DB	Yes
Nb of level 1b prods	61
Nb of prods with errors	1

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

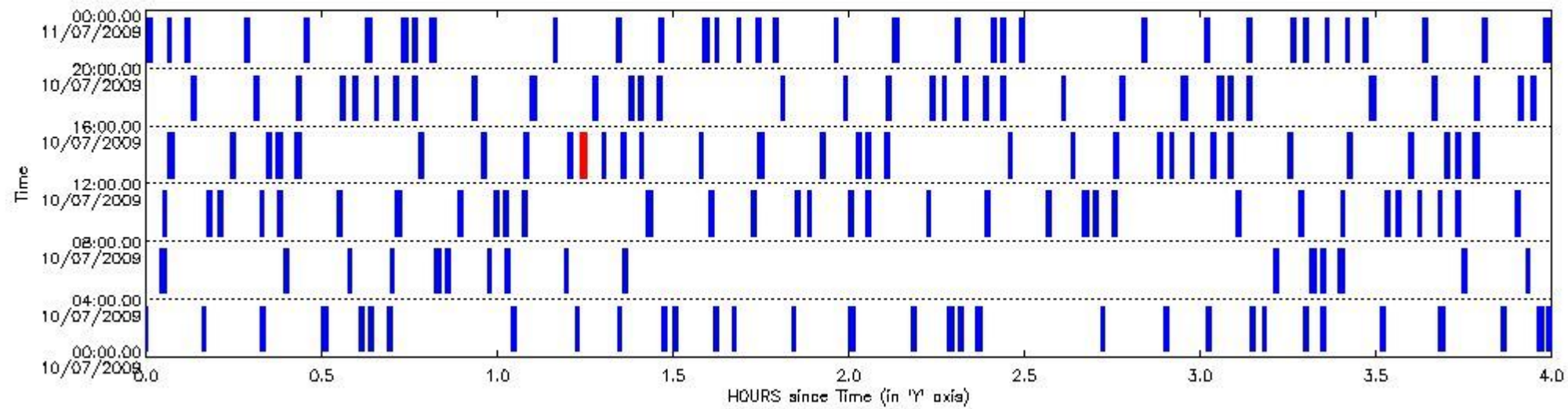
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

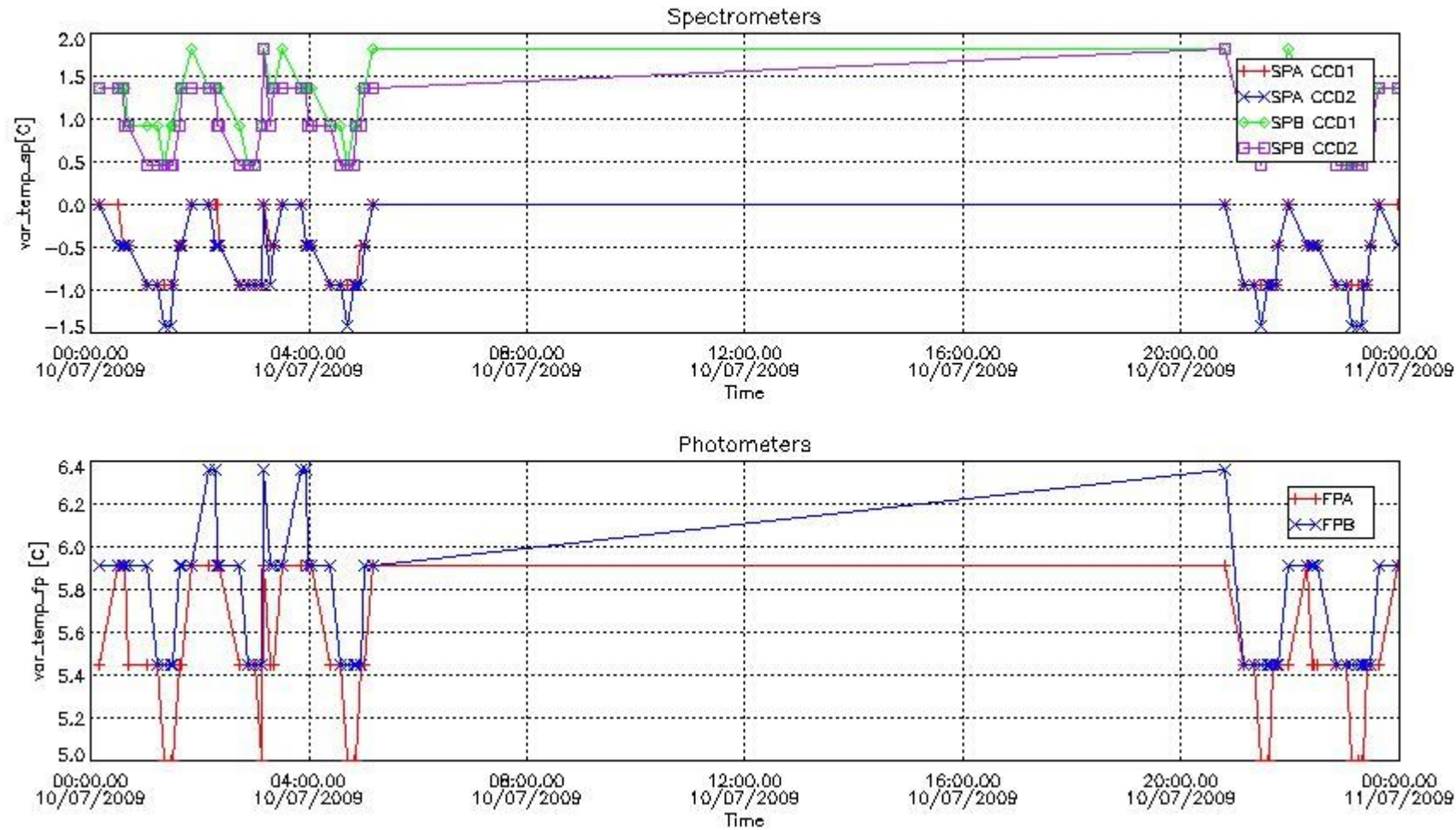
UTC start time	Star name	Star ID	Orbit
10-JUL-2009 13:14:06	37DelCas	110	38483

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_1PNPDE20090710_000931_000000412080_00345_38475_0835.N1	10-JUL-2009 00:09:31	Dark	40.500	94	92Alp Cet	2.5260	3100.0	81	38475	No
2	GOM_TRA_1PNPDE20090710_003001_000000522080_00346_38476_0956.N1	10-JUL-2009 00:30:01	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38476	No
3	GOM_TRA_1PNPDE20090710_003612_000000612080_00346_38476_0957.N1	10-JUL-2009 00:36:12	Straylight	60.500	63	Bet Gru	2.1500	2800.0	121	38476	No
4	GOM_TRA_1PNPDE20090710_003757_000000492080_00346_38476_0958.N1	10-JUL-2009 00:37:57	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	38476	No
5	GOM_TRA_1PNPDE20090710_004106_000000562080_00346_38476_0959.N1	10-JUL-2009 00:41:06	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38476	No
6	GOM_TRA_1PNPDE20090710_010223_000000432080_00346_38476_0960.N1	10-JUL-2009 01:02:23	Bright	42.500	168	17Zet Aql	2.9860	11000.	85	38476	No
7	GOM_TRA_1PNPDE20090710_011310_000000442080_00346_38476_0961.N1	10-JUL-2009 01:13:10	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38476	No
8	GOM_TRA_1PNPDE20090710_012024_000000432080_00346_38476_0962.N1	10-JUL-2009 01:20:24	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38476	No
9	GOM_TRA_1PNPDE20090710_012755_000000472080_00346_38476_0963.N1	10-JUL-2009 01:27:55	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	38476	No
10	GOM_TRA_1PNPDE20090710_012958_000000412080_00346_38476_0964.N1	10-JUL-2009 01:29:58	Bright	40.500	110	37Del Cas	2.6780	8900.0	81	38476	No

11	GOM_TRA_1PNPDE20090710_013658_000000452080_00346_38476_0965.N1	10-JUL-2009 01:36:58	Bright	44.500	73	57Gam1And	2.2600	13100.	89	38476	No
12	GOM_TRA_1PNPDE20090710_013957_000000462080_00346_38476_0966.N1	10-JUL-2009 01:39:57	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	38476	No
13	GOM_TRA_1PNPDE20090710_015008_000000422080_00346_38476_0967.N1	10-JUL-2009 01:50:08	Dark	41.500	94	92Alp Cet	2.5260	3100.0	83	38476	No
14	GOM_TRA_1PNPDE20090710_021038_000000512080_00347_38477_1101.N1	10-JUL-2009 02:10:38	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	38477	No
15	GOM_TRA_1PNPDE20090710_021649_000000652080_00347_38477_1102.N1	10-JUL-2009 02:16:49	Straylight	65.000	63	Bet Gru	2.1500	2800.0	130	38477	No
16	GOM_TRA_1PNPDE20090710_021834_000000552080_00347_38477_1103.N1	10-JUL-2009 02:18:34	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	38477	No
17	GOM_TRA_1PNPDE20090710_022143_000000552080_00347_38477_1104.N1	10-JUL-2009 02:21:43	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	38477	No
18	GOM_TRA_1PNPDE20090710_024258_000000432080_00347_38477_1105.N1	10-JUL-2009 02:42:58	Bright	43.000	168	17Zet Aql	2.9860	11000.	86	38477	No
19	GOM_TRA_1PNPDE20090710_025345_000000412080_00347_38477_1106.N1	10-JUL-2009 02:53:45	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38477	No
20	GOM_TRA_1PNPDE20090710_030059_000000472080_00347_38477_1107.N1	10-JUL-2009 03:00:59	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	38477	No
21	GOM_TRA_1PNPDE20090710_030830_000000472080_00347_38477_1108.N1	10-JUL-2009 03:08:30	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	38477	No
22	GOM_TRA_1PNPDE20090710_031033_000000412080_00347_38477_1243.N1	10-JUL-2009 03:10:33	Bright	41.000	110	37Del Cas	2.6780	8900.0	82	38477	No
23	GOM_TRA_1PNPDE20090710_031734_000000442080_00347_38477_1244.N1	10-JUL-2009 03:17:34	Bright	44.000	73	57Gam1And	2.2600	13100.	88	38477	No
24	GOM_TRA_1PNPDE20090710_032034_000000462080_00347_38477_1245.N1	10-JUL-2009 03:20:34	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	38477	No
25	GOM_TRA_1PNPDE20090710_033044_000000412080_00347_38477_1246.N1	10-JUL-2009 03:30:44	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	38477	No
26	GOM_TRA_1PNPDE20090710_035115_000000512080_00348_38478_1247.N1	10-JUL-2009 03:51:15	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	38478	No
27	GOM_TRA_1PNPDE20090710_035726_000000652080_00348_38478_1248.N1	10-JUL-2009 03:57:26	Straylight	65.000	63	Bet Gru	2.1500	2800.0	130	38478	No
28	GOM_TRA_1PNPDE20090710_035911_000000492080_00348_38478_1249.N1	10-JUL-2009 03:59:11	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38478	No
29	GOM_TRA_1PNPDE20090710_040220_000000562080_00348_38478_1250.N1	10-JUL-2009 04:02:20	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38478	No
30	GOM_TRA_1PNPDE20090710_042334_000000422080_00348_38478_1251.N1	10-JUL-2009 04:23:34	Bright	42.000	168	17Zet Aql	2.9860	11000.	84	38478	No
31	GOM_TRA_1PNPDE20090710_043420_000000442080_00348_38478_1252.N1	10-JUL-2009 04:34:20	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38478	No
32	GOM_TRA_1PNPDE20090710_044134_000000462080_00348_38478_1253.N1	10-JUL-2009 04:41:34	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	38478	No
33	GOM_TRA_1PNPDE20090710_044906_000000722080_00348_38478_1426.N1	10-JUL-2009 04:49:06	Bright	72.000	74	11Bet Cas	2.2680	6600.0	144	38478	No
34	GOM_TRA_1PNPDE20090710_045109_000000492080_00348_38478_1427.N1	10-JUL-2009 04:51:09	Bright	48.500	110	37Del Cas	2.6780	8900.0	97	38478	No
35	GOM_TRA_1PNPDE20090710_045810_000000452080_00348_38478_1600.N1	10-JUL-2009 04:58:10	Bright	44.500	73	57Gam1And	2.2600	13100.	89	38478	No
36	GOM_TRA_1PNPDE20090710_050110_000000462080_00348_38478_1429.N1	10-JUL-2009 05:01:10	Twilight	45.500	173	4Bet Tri	3.0040	8900.0	91	38478	No
37	GOM_TRA_1PNPDE20090710_051121_000000422080_00348_38478_1430.N1	10-JUL-2009 05:11:21	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	38478	No
38	GOM_TRA_1PNPDE20090710_204828_000000532080_00358_38488_2002.N1	10-JUL-2009 20:48:28	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38488	Yes
39	GOM_TRA_1PNPDE20090710_210931_000000422080_00358_38488_2003.N1	10-JUL-2009 21:09:31	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	38488	No
40	GOM_TRA_1PNPDE20090710_212013_000000462080_00358_38488_2004.N1	10-JUL-2009 21:20:13	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	38488	No
41	GOM_TRA_1PNPDE20090710_212727_000000472080_00358_38488_2005.N1	10-JUL-2009 21:27:27	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	38488	No
42	GOM_TRA_1PNPDE20090710_213459_000000612080_00358_38488_2006.N1	10-JUL-2009 21:34:59	Bright	60.500	74	11Bet Cas	2.2680	6600.0	121	38488	No
43	GOM_TRA_1PNPDE20090710_213705_000000402080_00358_38488_2007.N1	10-JUL-2009 21:37:05	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38488	No
44	GOM_TRA_1PNPDE20090710_214046_000000362080_00358_38488_2008.N1	10-JUL-2009 21:40:46	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	38488	No
45	GOM_TRA_1PNPDE20090710_214408_000000452080_00358_38488_2009.N1	10-JUL-2009 21:44:08	Bright	45.000	73	57Gam1And	2.2600	13100.	90	38488	No
46	GOM_TRA_1PNPDE20090710_214709_000000462080_00358_38488_2010.N1	10-JUL-2009 21:47:09	Twilight	46.000	173	4Bet Tri	3.0040	8900.0	92	38488	No
47	GOM_TRA_1PNPDE20090710_215726_000000422080_00358_38488_2011.N1	10-JUL-2009 21:57:26	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	38488	No
48	GOM_TRA_1PNPDE20090710_221803_000000522080_00359_38489_2160.N1	10-JUL-2009 22:18:03	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38489	No
49	GOM_TRA_1PNPDE20090710_222411_000000542080_00359_38489_2161.N1	10-JUL-2009 22:24:11	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	38489	No
50	GOM_TRA_1PNPDE20090710_222554_000000502080_00359_38489_2162.N1	10-JUL-2009 22:25:54	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38489	No
51	GOM_TRA_1PNPDE20090710_222904_000000542080_00359_38489_2163.N1	10-JUL-2009 22:29:04	Straylight	54.000	172	Gam Gru	3.0030	13100.	108	38489	No
52	GOM_TRA_1PNPDE20090710_225006_000000432080_00359_38489_2164.N1	10-JUL-2009 22:50:06	Bright	43.000	168	17Zet Aql	2.9860	11000.	86	38489	No
53	GOM_TRA_1PNPDE20090710_230049_000000452080_00359_38489_2165.N1	10-JUL-2009 23:00:49	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	38489	No
54	GOM_TRA_1PNPDE20090710_230803_000000422080_00359_38489_2166.N1	10-JUL-2009 23:08:03	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38489	No
55	GOM_TRA_1PNPDE20090710_231534_000000482080_00359_38489_2167.N1	10-JUL-2009 23:15:34	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	38489	No
56	GOM_TRA_1PNPDE20090710_231740_000000482080_00359_38489_2168.N1	10-JUL-2009 23:17:40	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	38489	No
57	GOM_TRA_1PNPDE20090710_232122_000000362080_00359_38489_2169.N1	10-JUL-2009 23:21:22	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	38489	No
58	GOM_TRA_1PNPDE20090710_232443_000000452080_00359_38489_2170.N1	10-JUL-2009 23:24:43	Bright	44.500	73	57Gam1And	2.2600	13100.	89	38489	No
59	GOM_TRA_1PNPDE20090710_232745_000000462080_00359_38489_2171.N1	10-JUL-2009 23:27:45	Twilight	46.000	173	4Bet Tri	3.0040	8900.0	92	38489	No
60	GOM_TRA_1PNPDE20090710_233803_000000422080_00359_38489_2172.N1	10-JUL-2009 23:38:03	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	38489	No
61	GOM_TRA_1PNPDE20090710_235840_000000612080_00360_38490_2307.N1	10-JUL-2009 23:58:40	Dark	60.500	84	Alp Phe	2.3970	4500.0	121	38490	No

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



4. Overview of dark signal processing per product

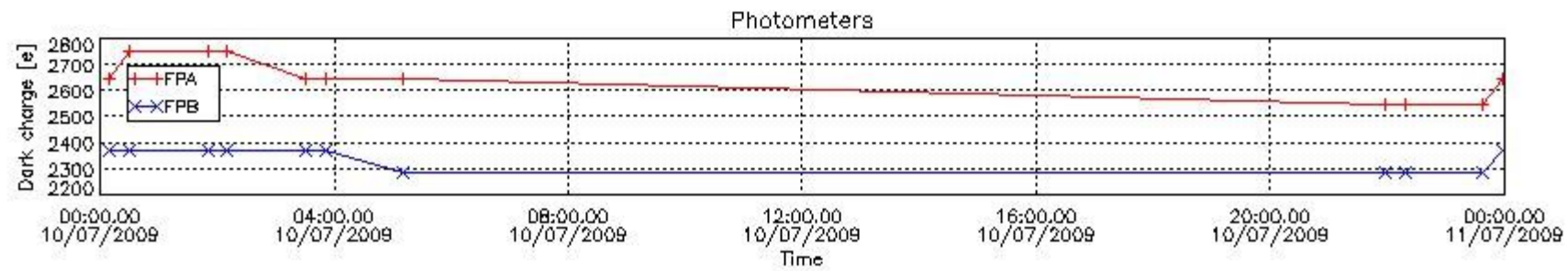
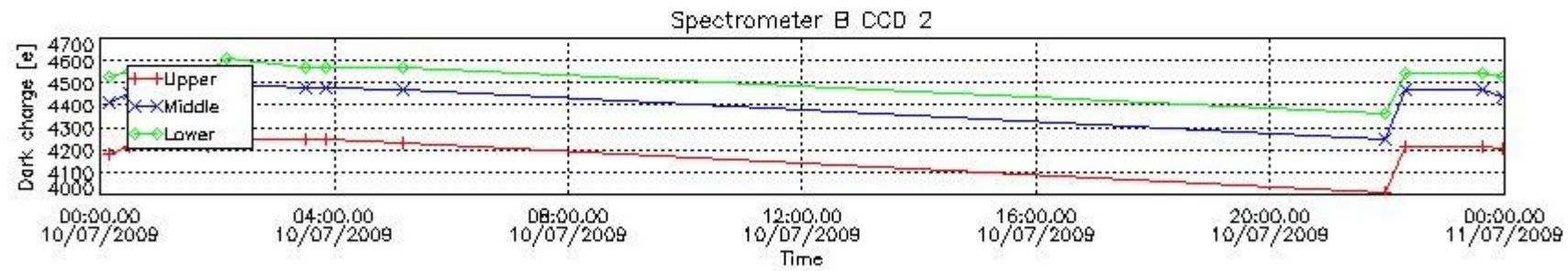
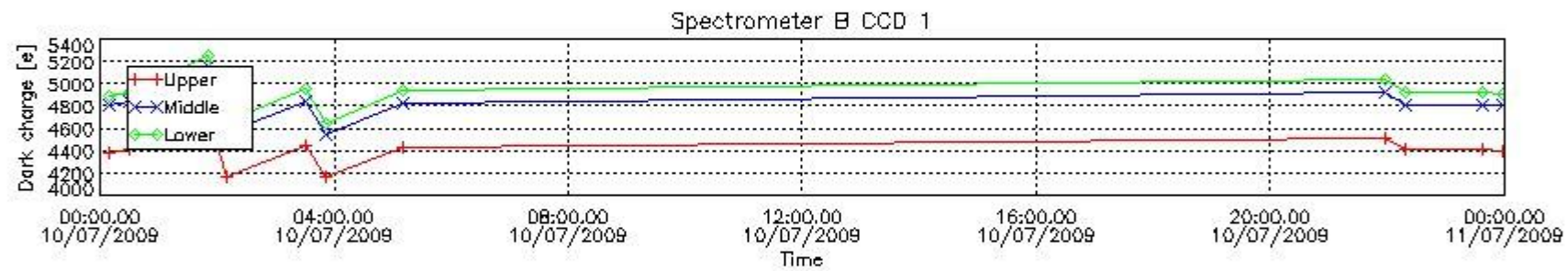
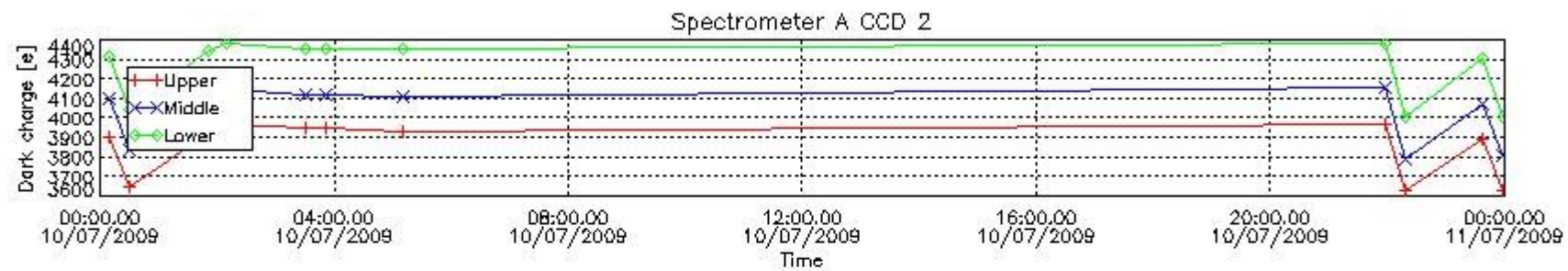
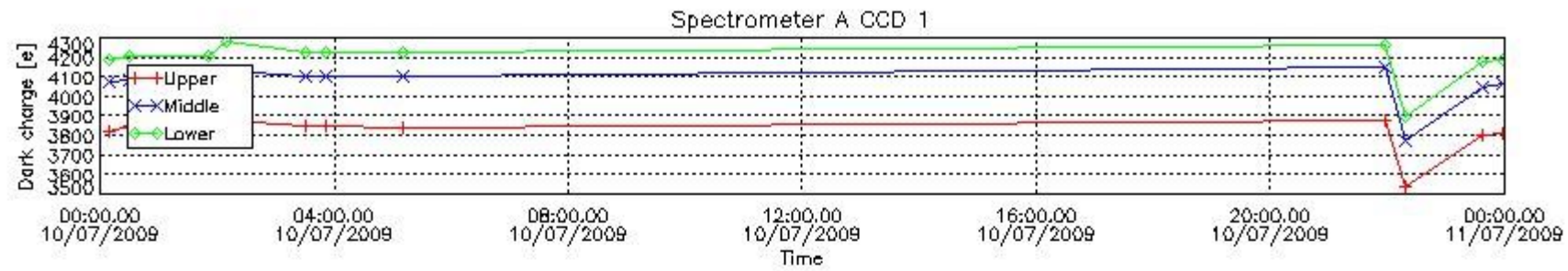
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090710_204828_000000532080_00358_38488_2002.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090710_210931_000000422080_00358_38488_2003.N1	DC map used
GOM_TRA_1PNPDE20090710_212013_000000462080_00358_38488_2004.N1	DC map used
GOM_TRA_1PNPDE20090710_212727_000000472080_00358_38488_2005.N1	DC map used
GOM_TRA_1PNPDE20090710_213459_000000612080_00358_38488_2006.N1	DC map used
GOM_TRA_1PNPDE20090710_213705_000000402080_00358_38488_2007.N1	DC map used
GOM_TRA_1PNPDE20090710_214046_000000362080_00358_38488_2008.N1	DC map used
GOM_TRA_1PNPDE20090710_214408_000000452080_00358_38488_2009.N1	DC map used
GOM_TRA_1PNPDE20090710_214709_000000462080_00358_38488_2010.N1	DC map used
GOM_TRA_1PNPDE20090710_215726_000000422080_00358_38488_2011.N1	DC map used

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



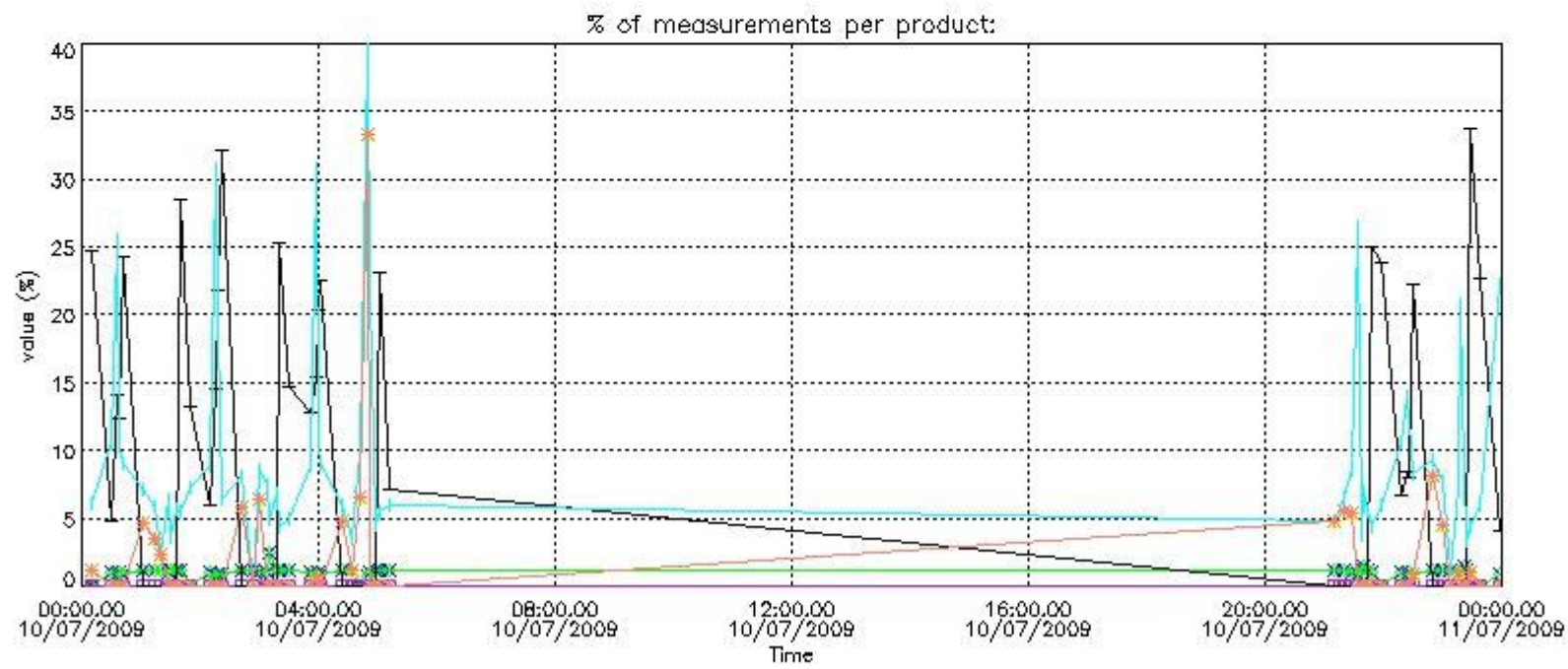
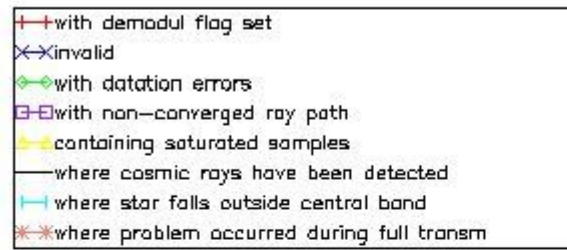
5. Demodulation flag and quality information monitoring

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.

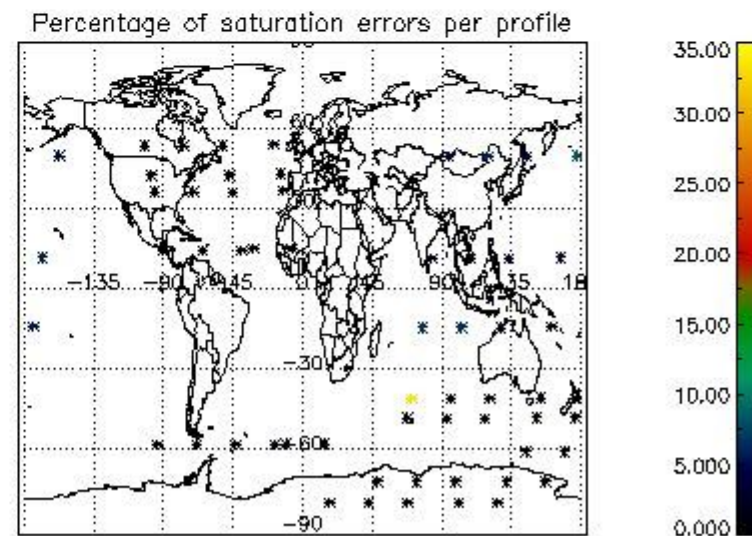
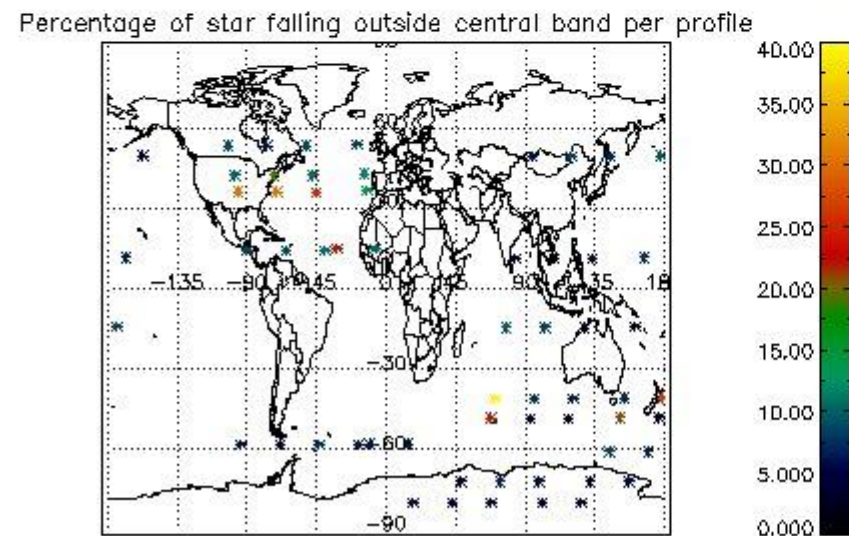
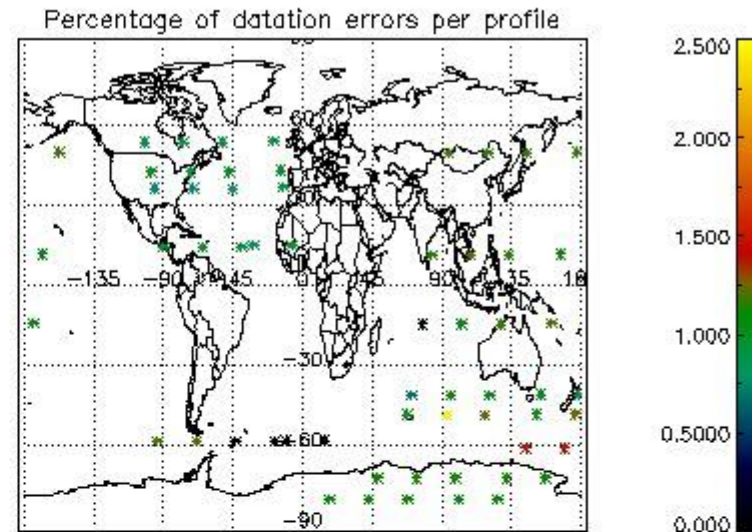
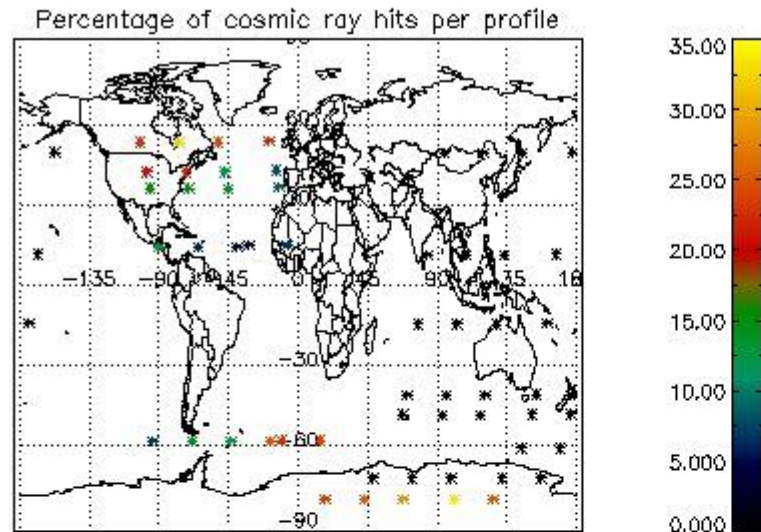
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.3333 %
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)



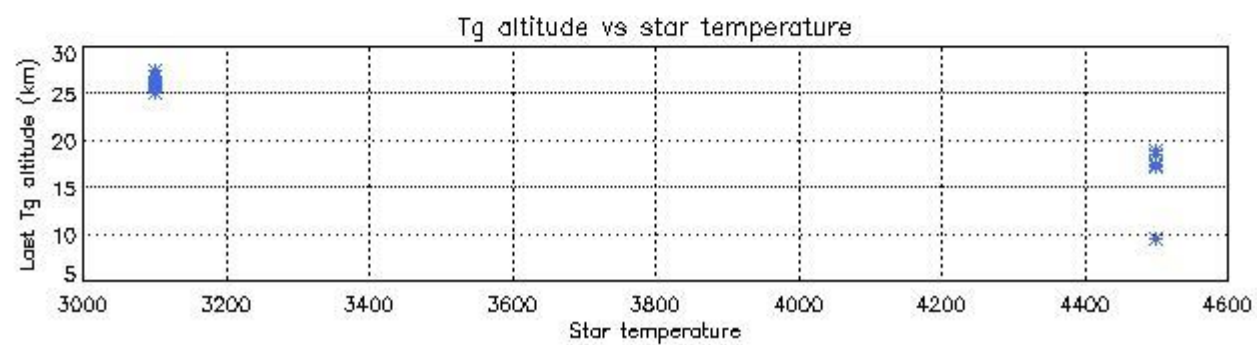
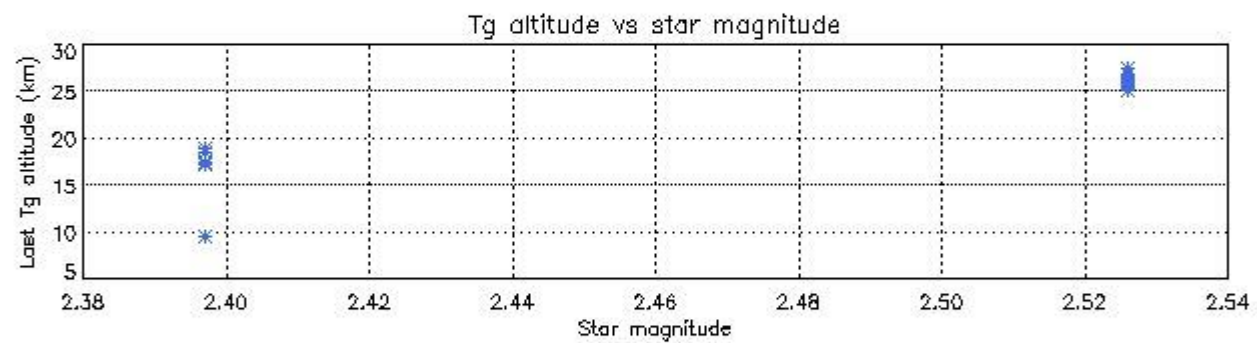
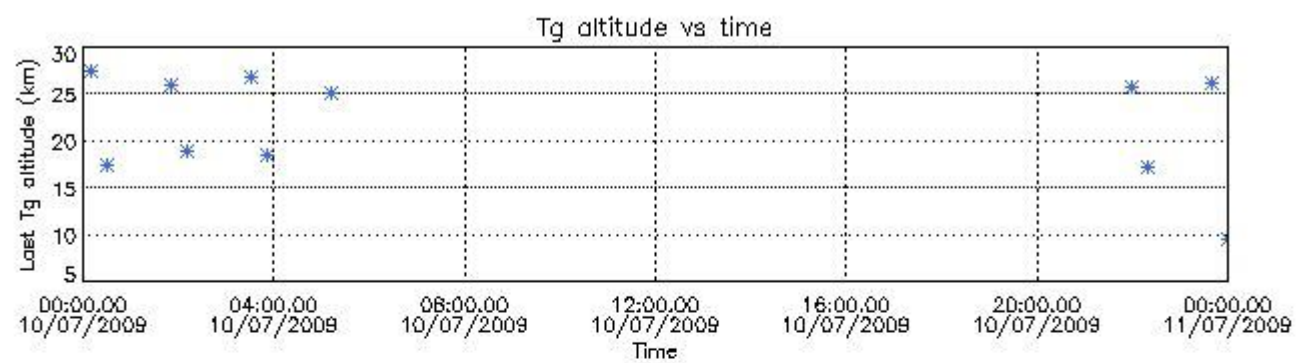
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.681	23.029	NaN
St. deviation:	5.7172	6.2724	NaN
Maximum:	27.331	31.329	NaN
Minimum:	9.5543	3.7359	NaN
Number of data:	11.000	32.000	NaN

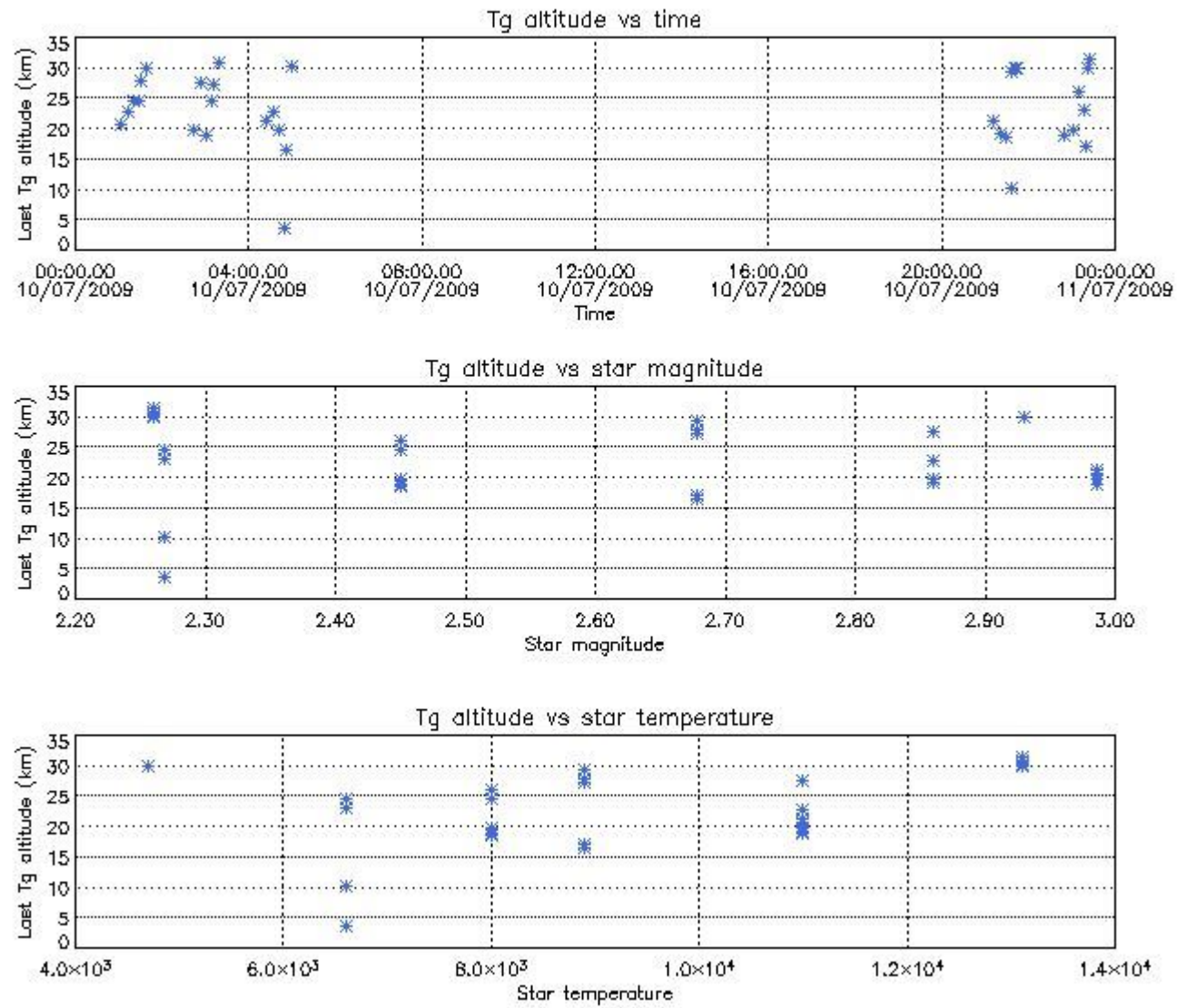
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

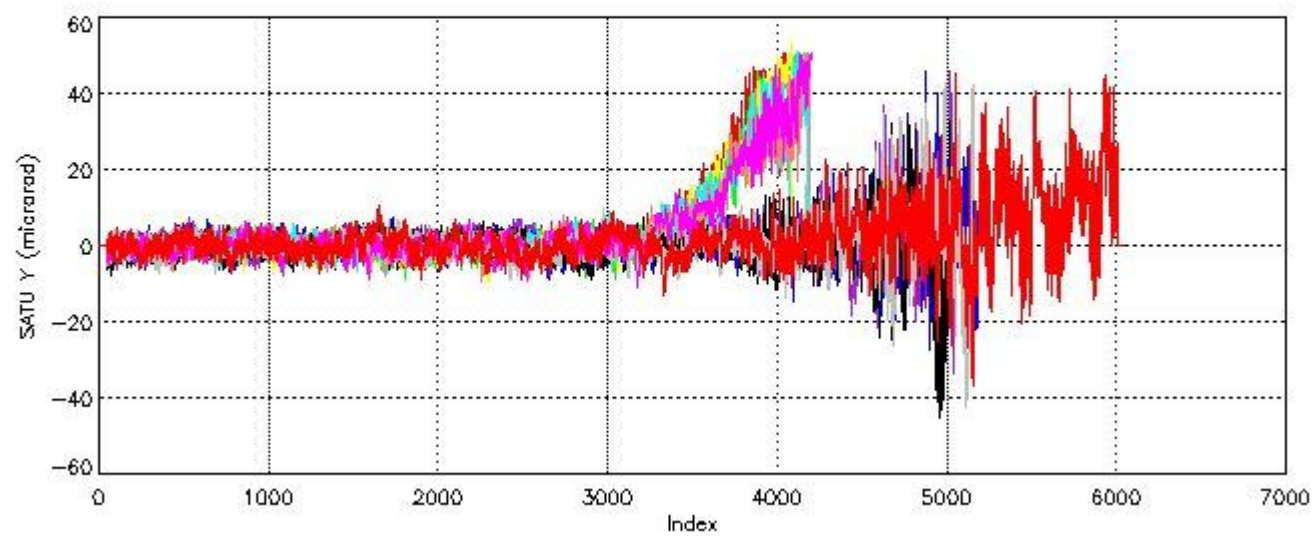
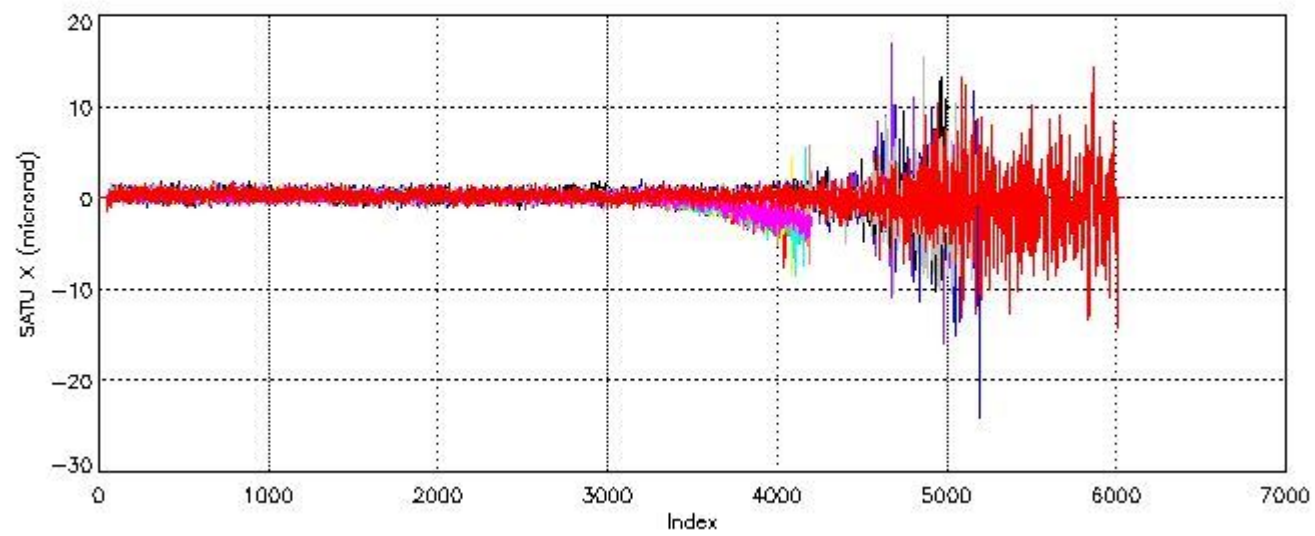


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27488	-0.17024	0.25672	-0.28644
St. deviation:	0.35346	2.1272	1.1111	3.9642
Maximum:	1.8000	7.2000	6.8000	14.300
Minimum:	-1.4000	-8.0000	-5.5000	-14.600

Number of data:	12550.	12550.	33900.	33900.
-----------------	--------	--------	--------	--------

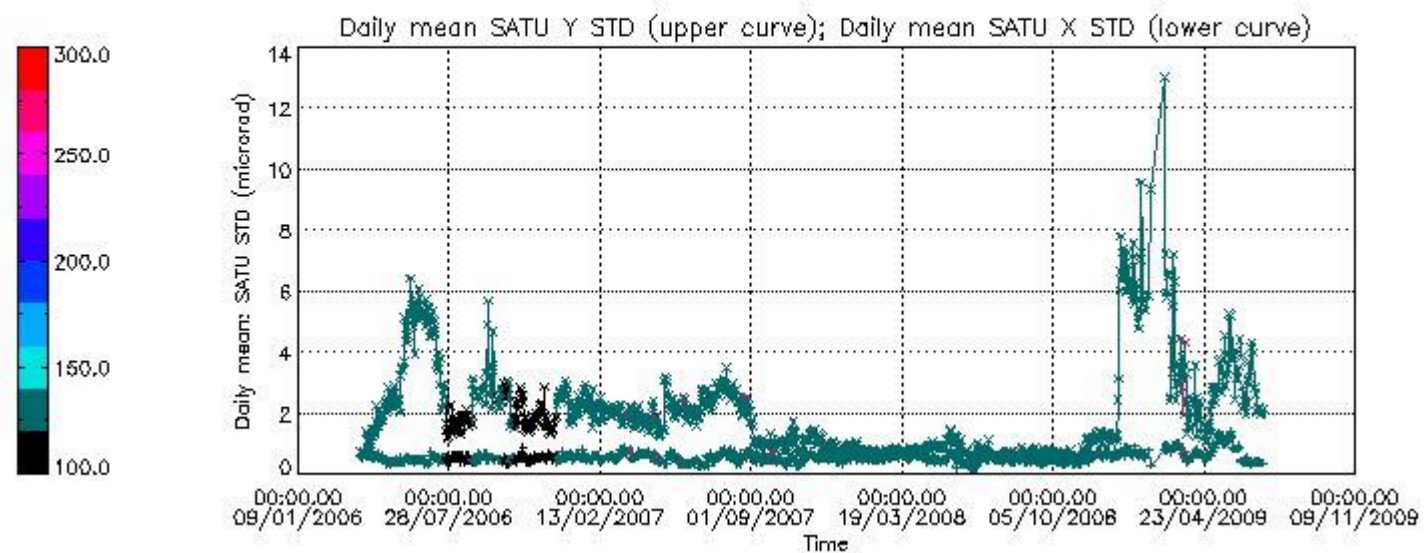
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

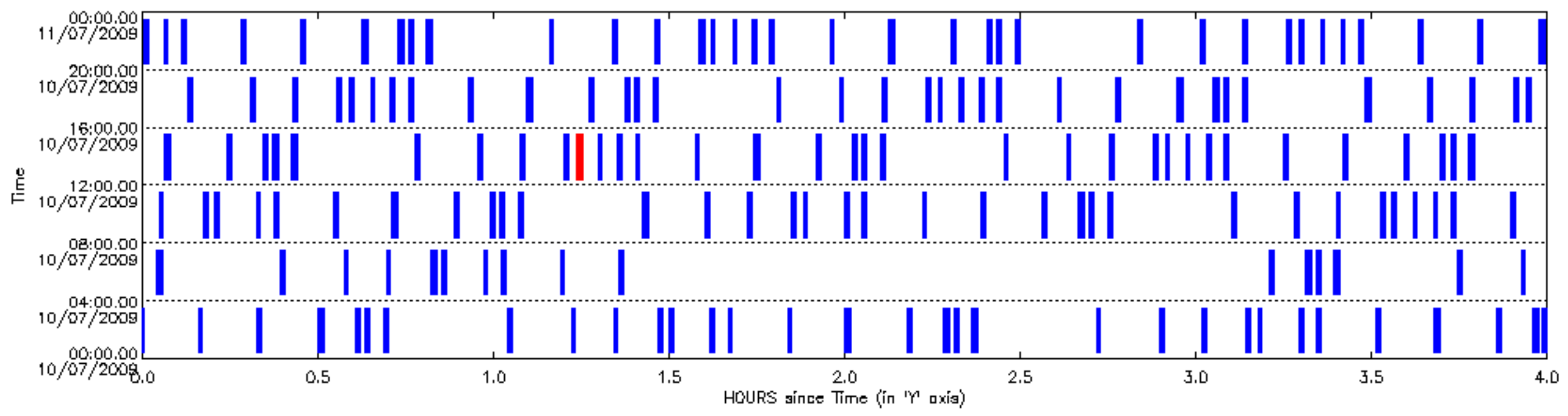
Lower curve: STD of SATU X axis

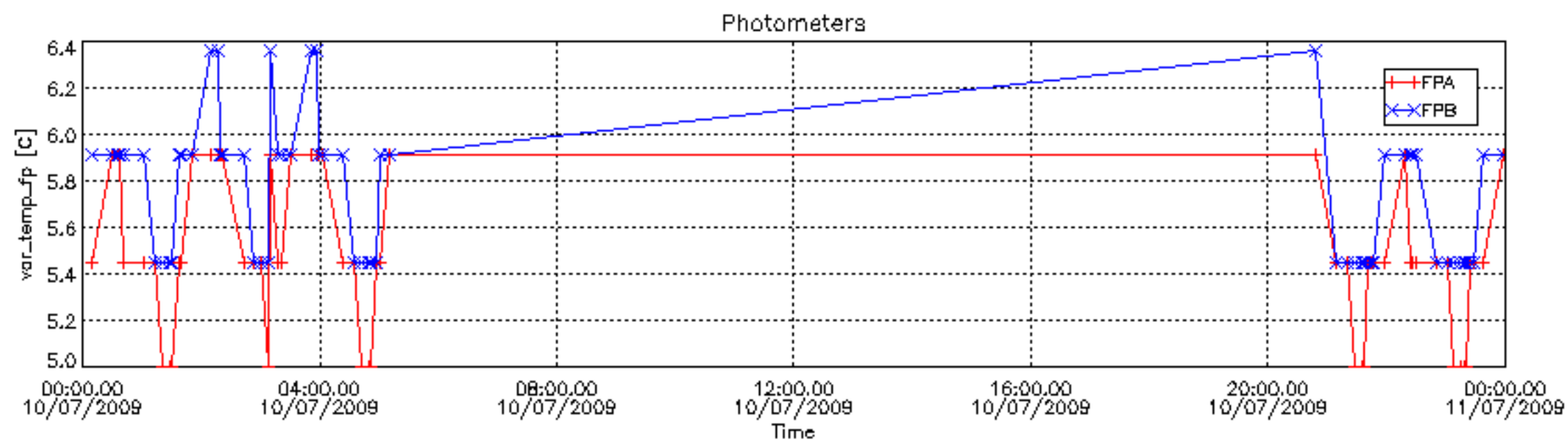
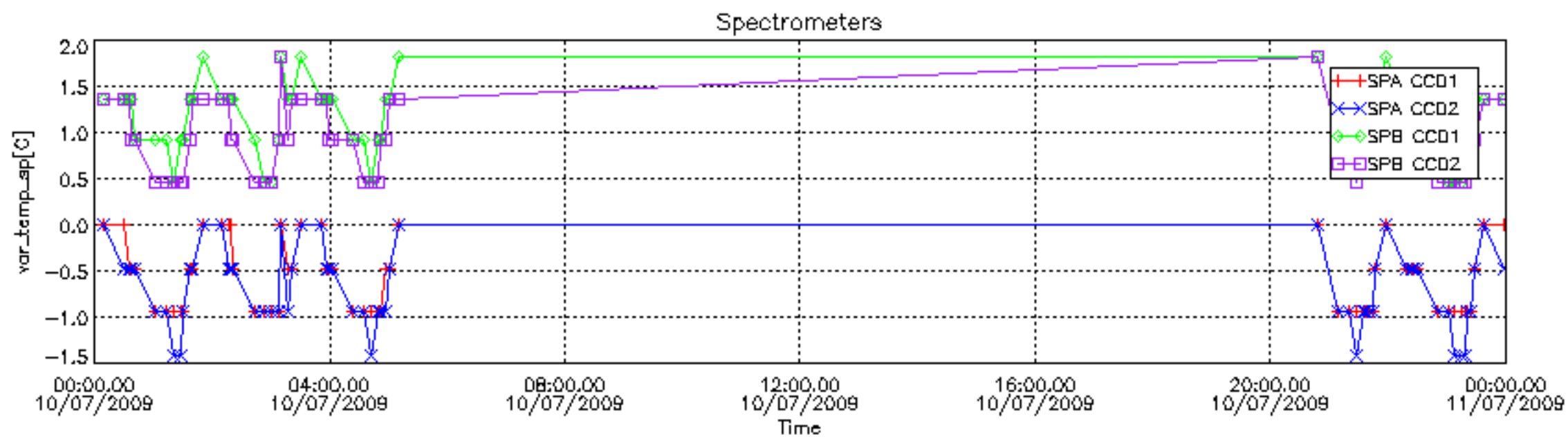


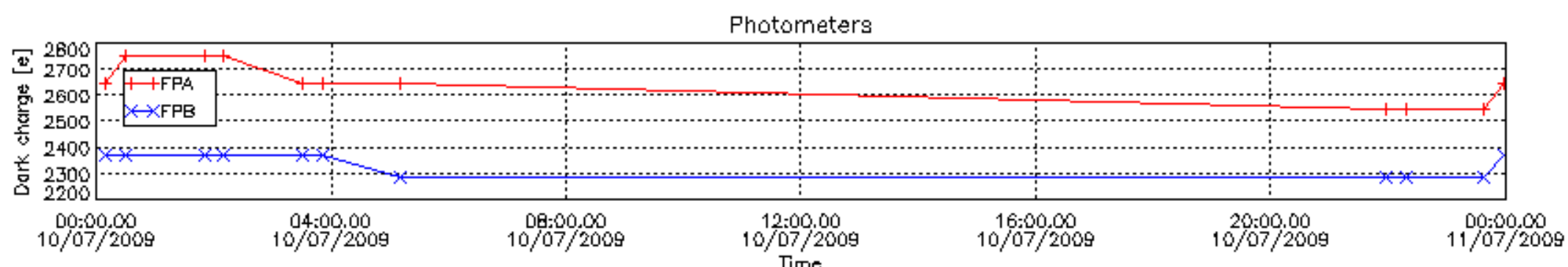
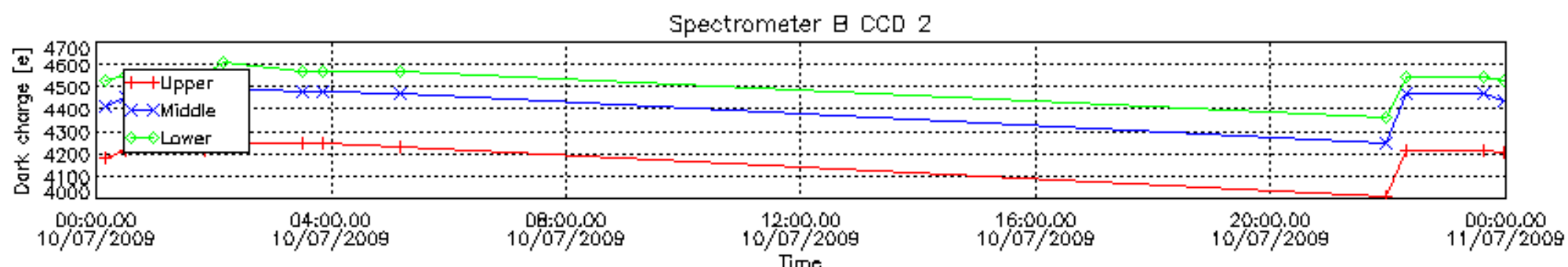
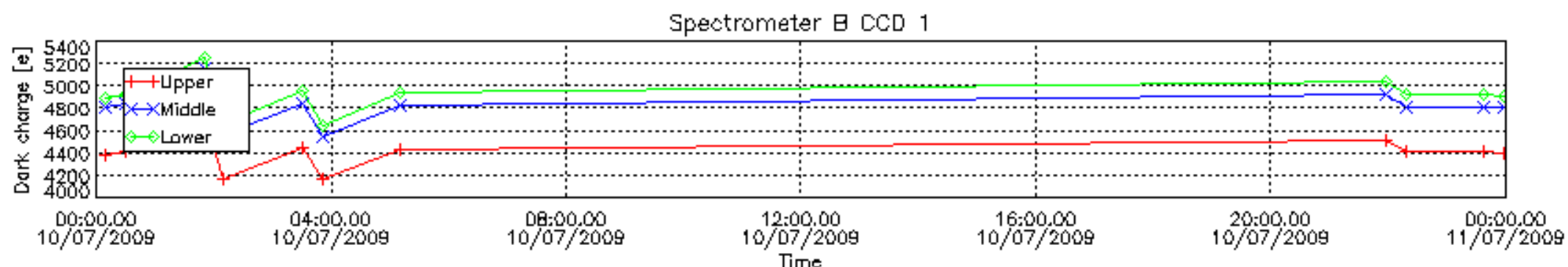
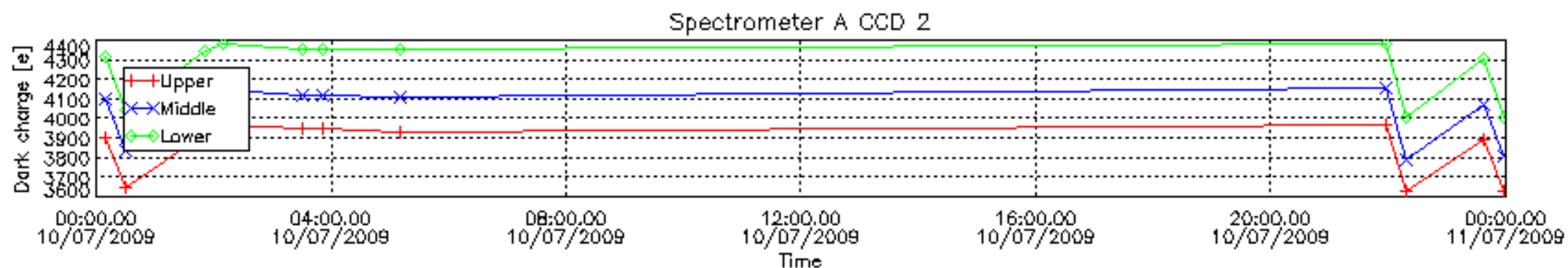
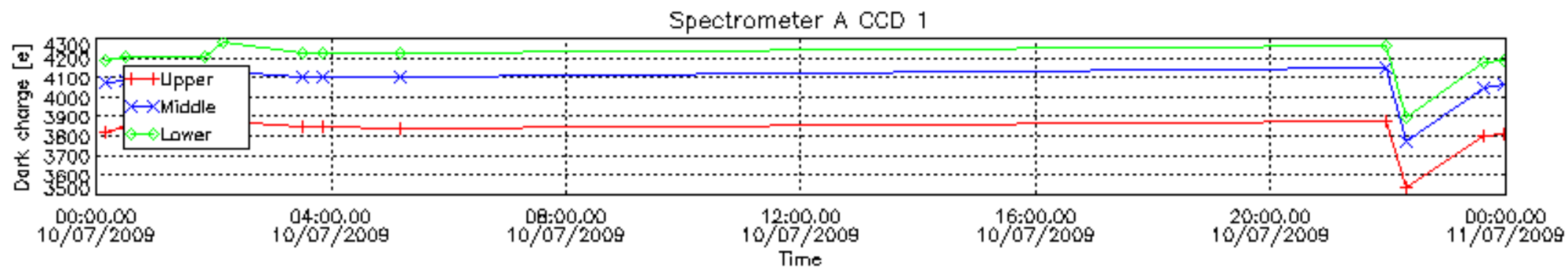
8. Auxiliary Data Files used for the production reported in section 2.4

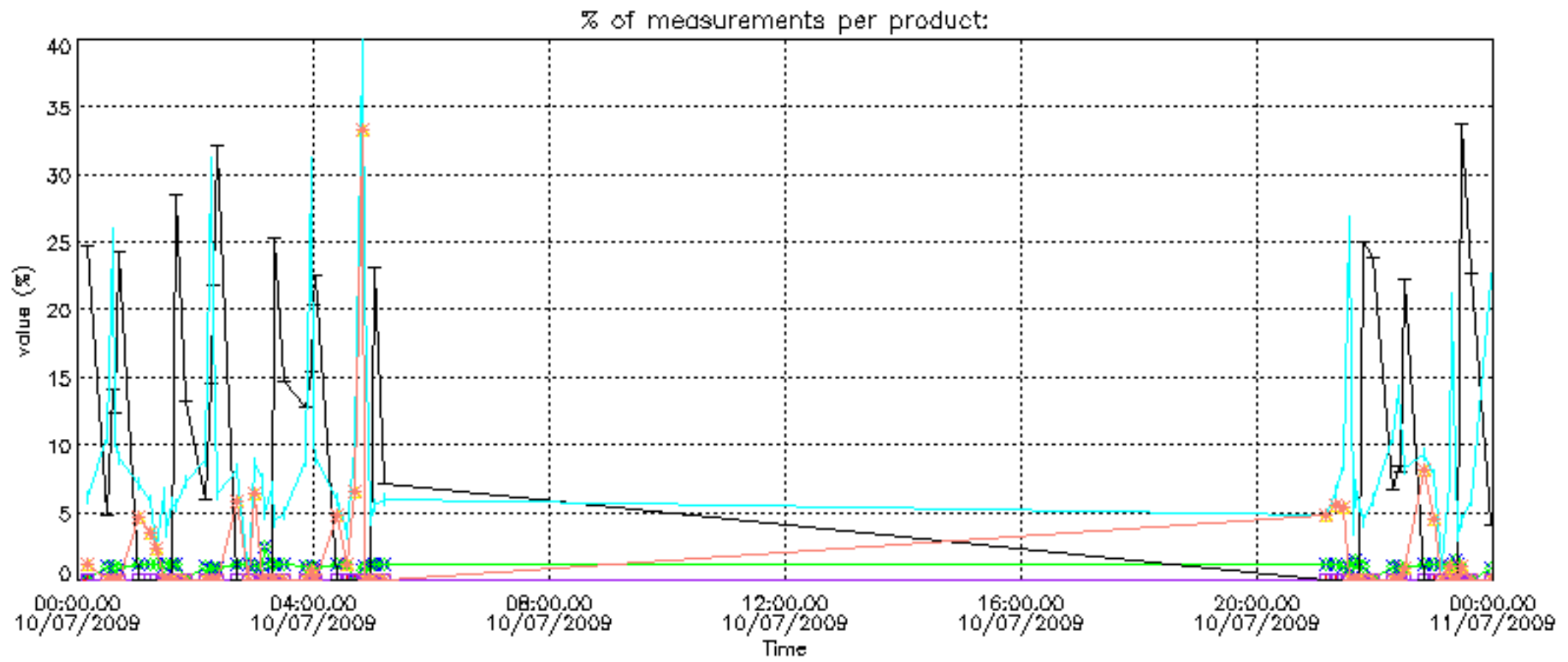
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-JUL-2009 00:09:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-JUL-2009 00:09:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-JUL-2009 00:09:31
ECMWF_FILE	AUX_ECF_AXNECM20090709_064111_20090709_210000_20090710_090000	1	10-JUL-2009 00:09:31
ECMWF_FILE	AUX_ECF_AXNECM20090709_182111_20090710_030000_20090710_150000	22	10-JUL-2009 03:10:33
ECMWF_FILE	AUX_ECF_AXNECM20090710_064111_20090710_150000_20090711_030000	38	10-JUL-2009 20:48:28
ECMWF_FILE	AUX_ECF_AXNECM20090710_064112_20090710_210000_20090711_090000	48	10-JUL-2009 22:18:03
OPTIONAL_ECMWF_FILE	MISSING	1	10-JUL-2009 00:09:31
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090710_000927_000057382080_00345_38475_8322.N1	2	10-JUL-2009 00:30:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090710_015024_000044632080_00346_38476_8323.N1	22	10-JUL-2009 03:10:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090710_031006_000054192080_00347_38477_8324.N1	33	10-JUL-2009 04:49:06
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090710_204725_000038252080_00358_38488_8326.N1	38	10-JUL-2009 20:48:28
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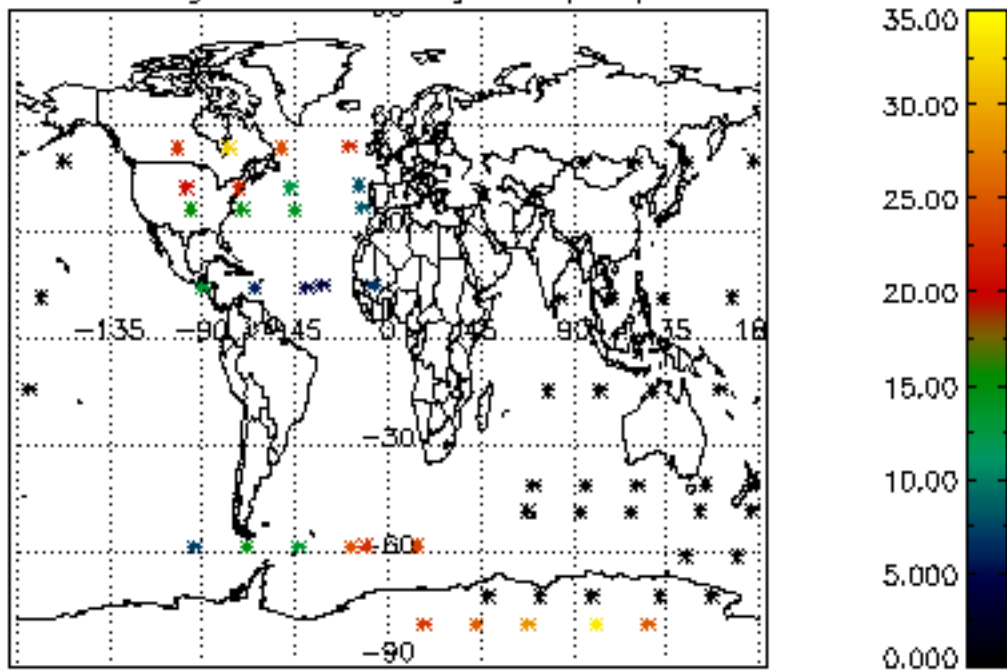




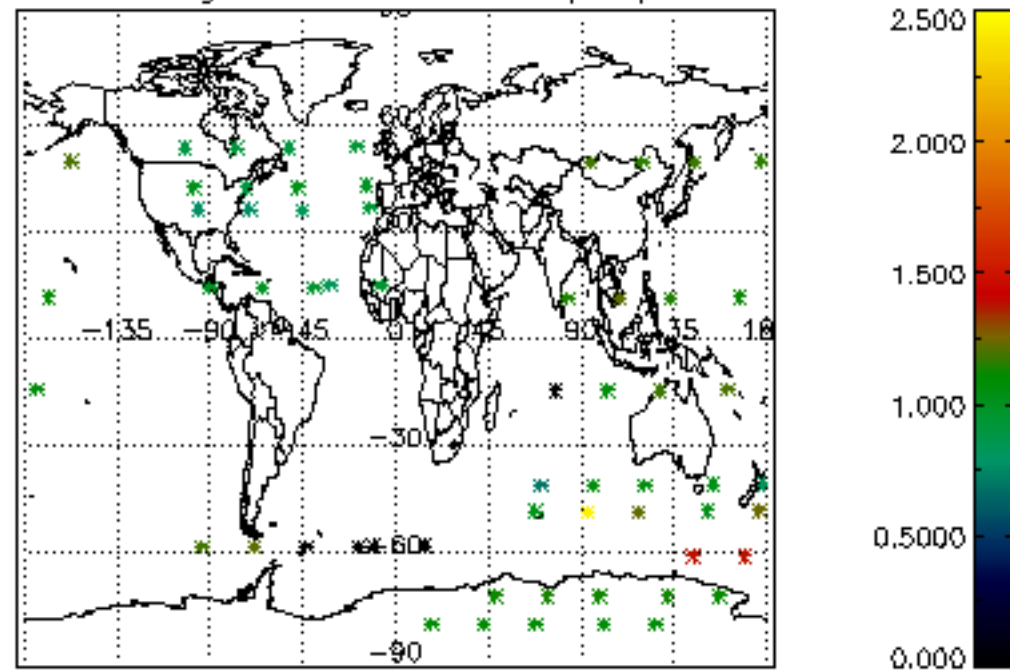




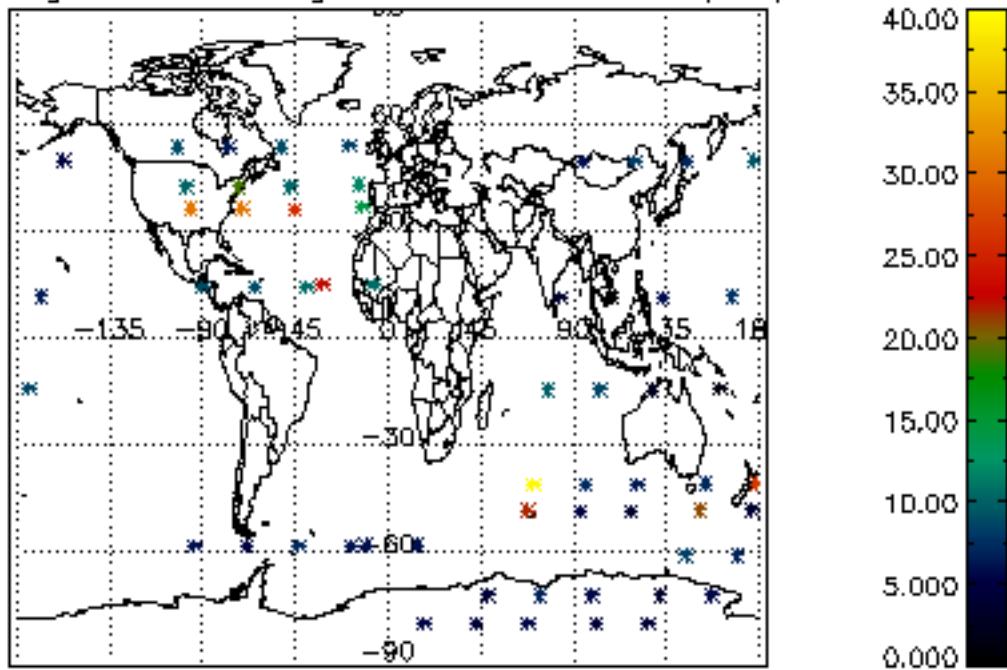
Percentage of cosmic ray hits per profile



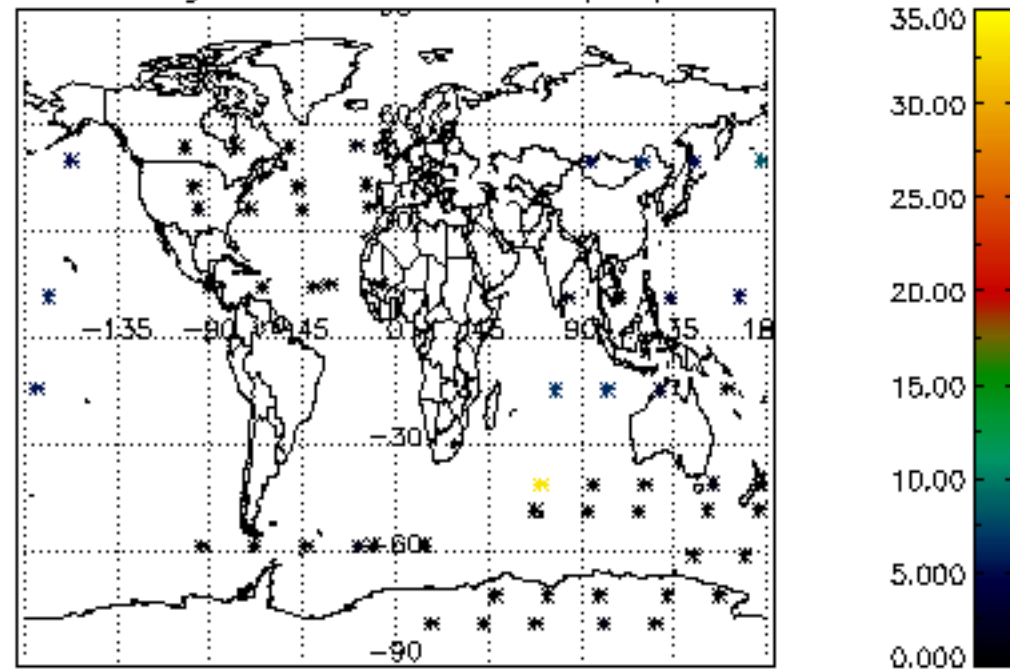
Percentage of datation errors per profile



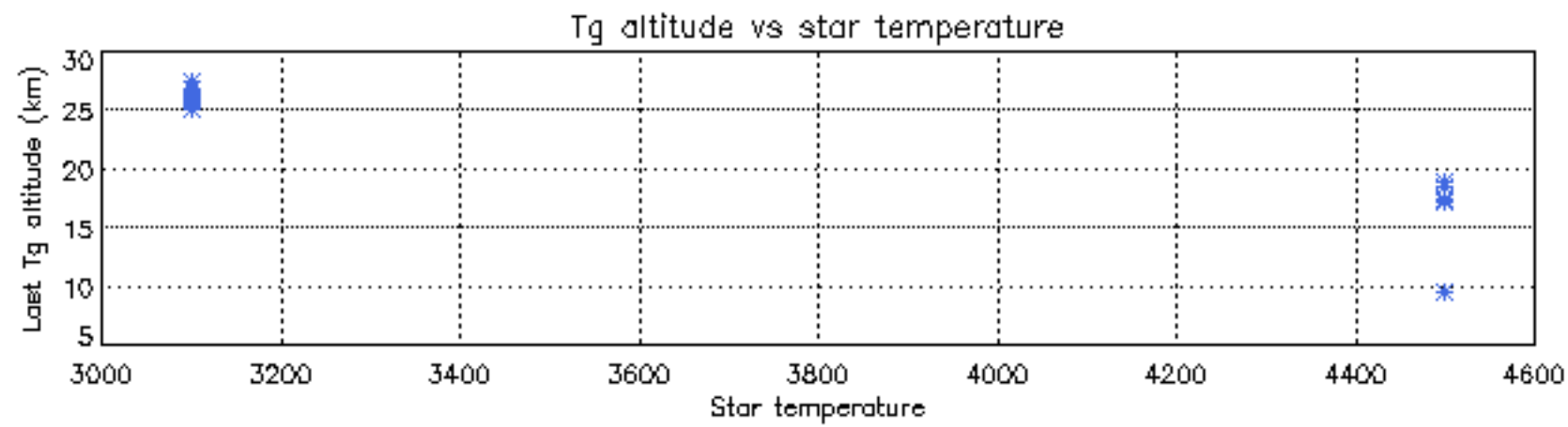
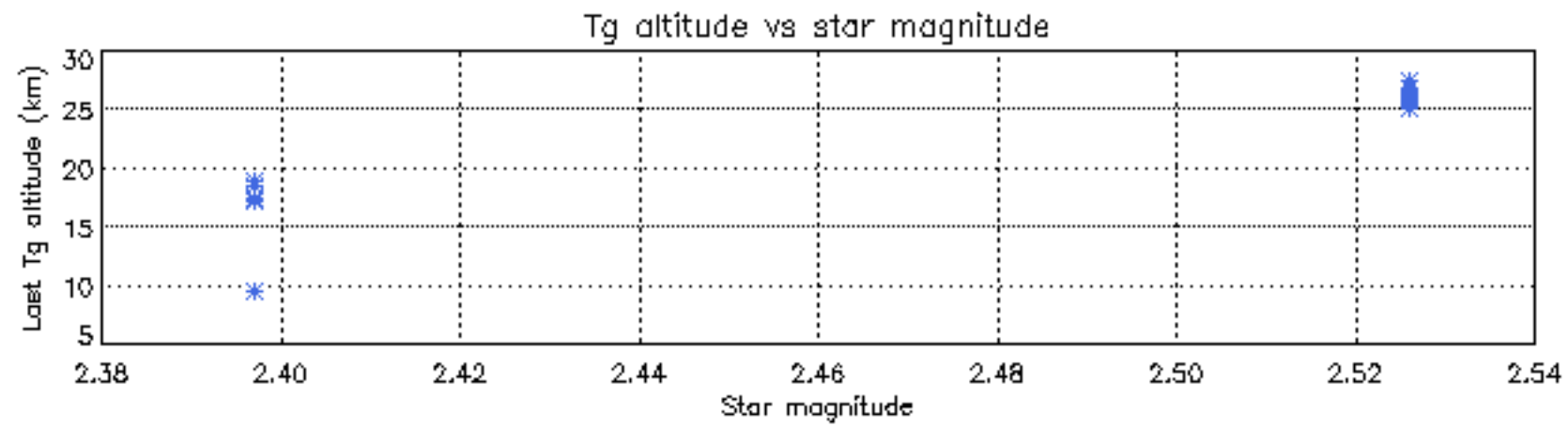
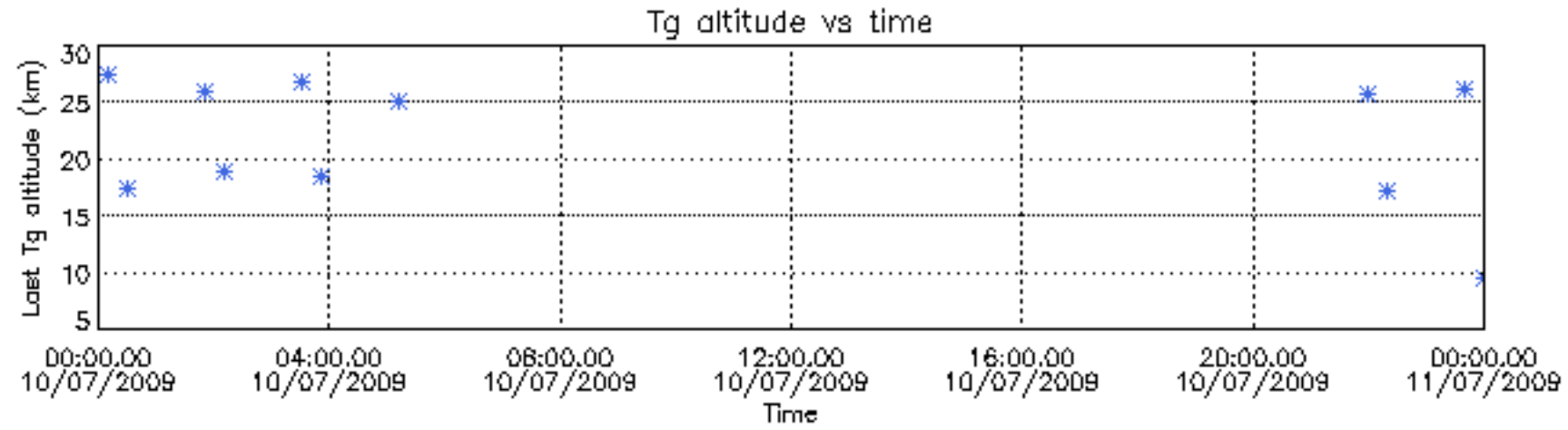
Percentage of star falling outside central band per profile



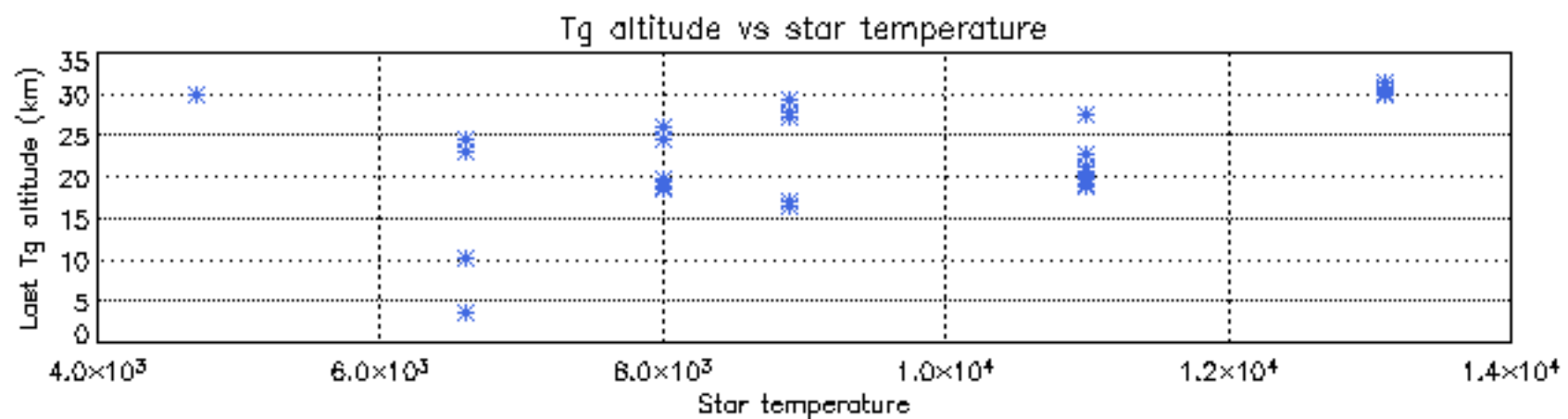
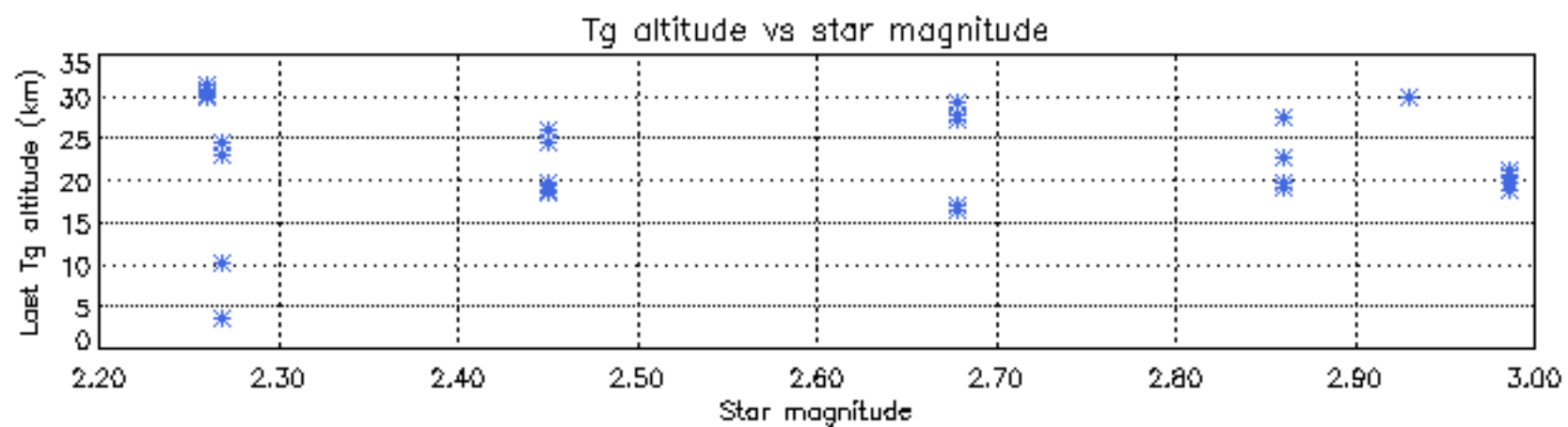
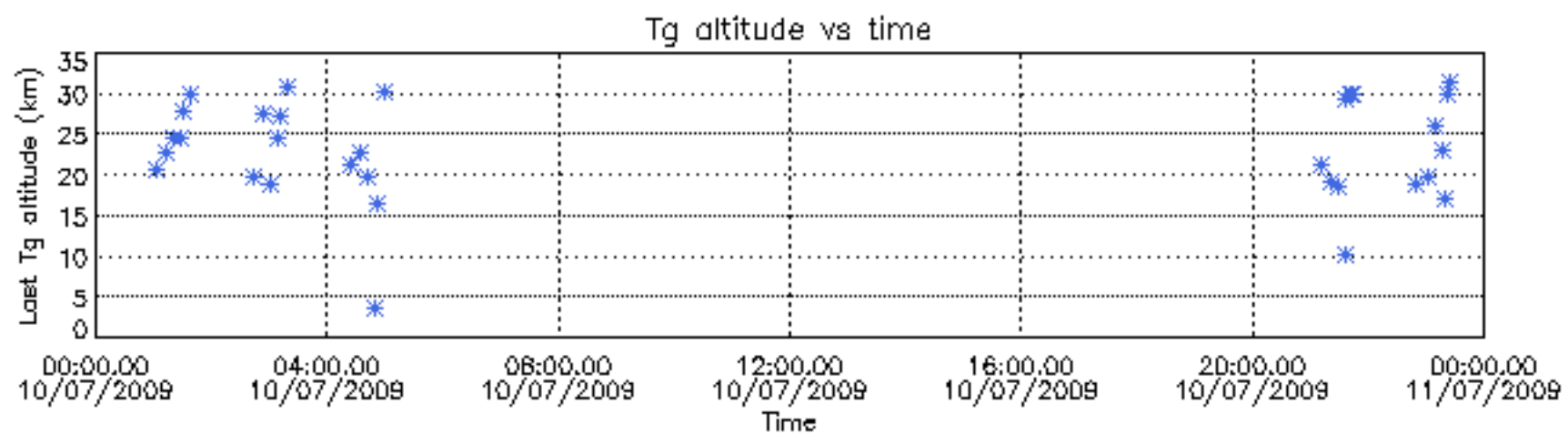
Percentage of saturation errors per profile

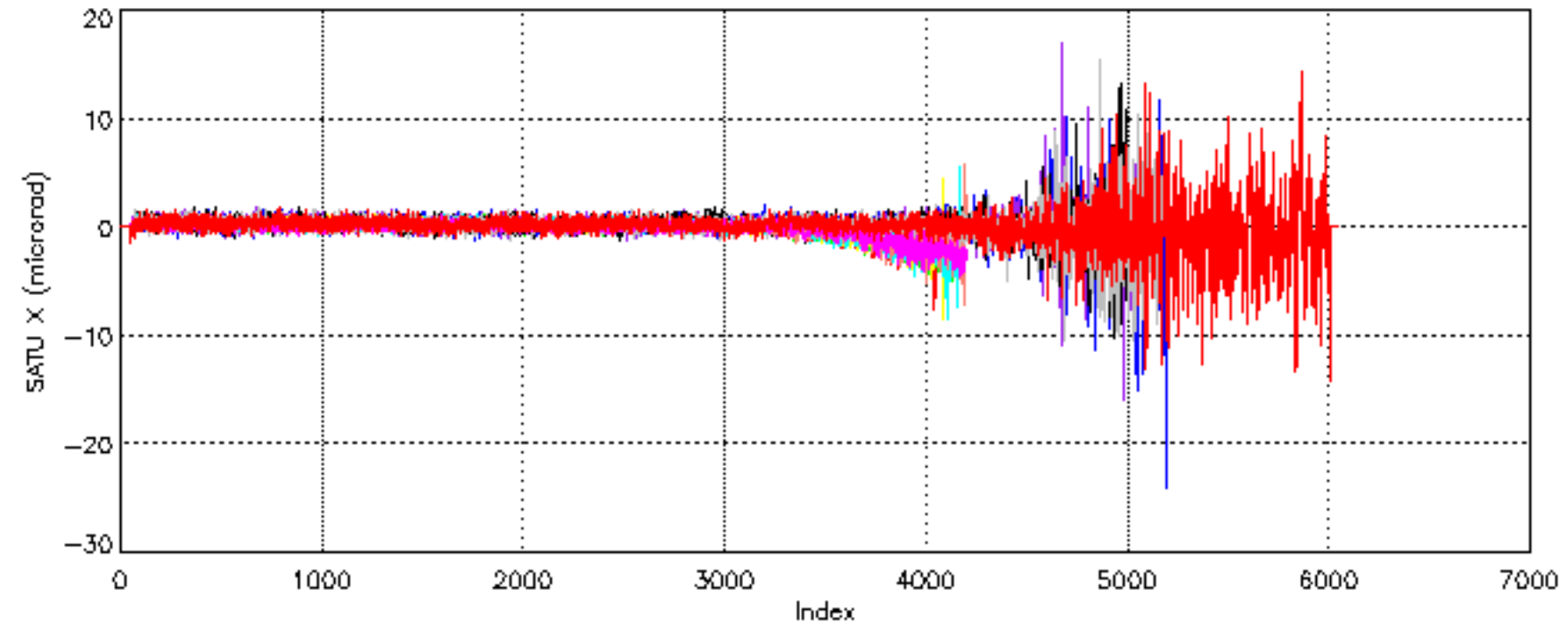


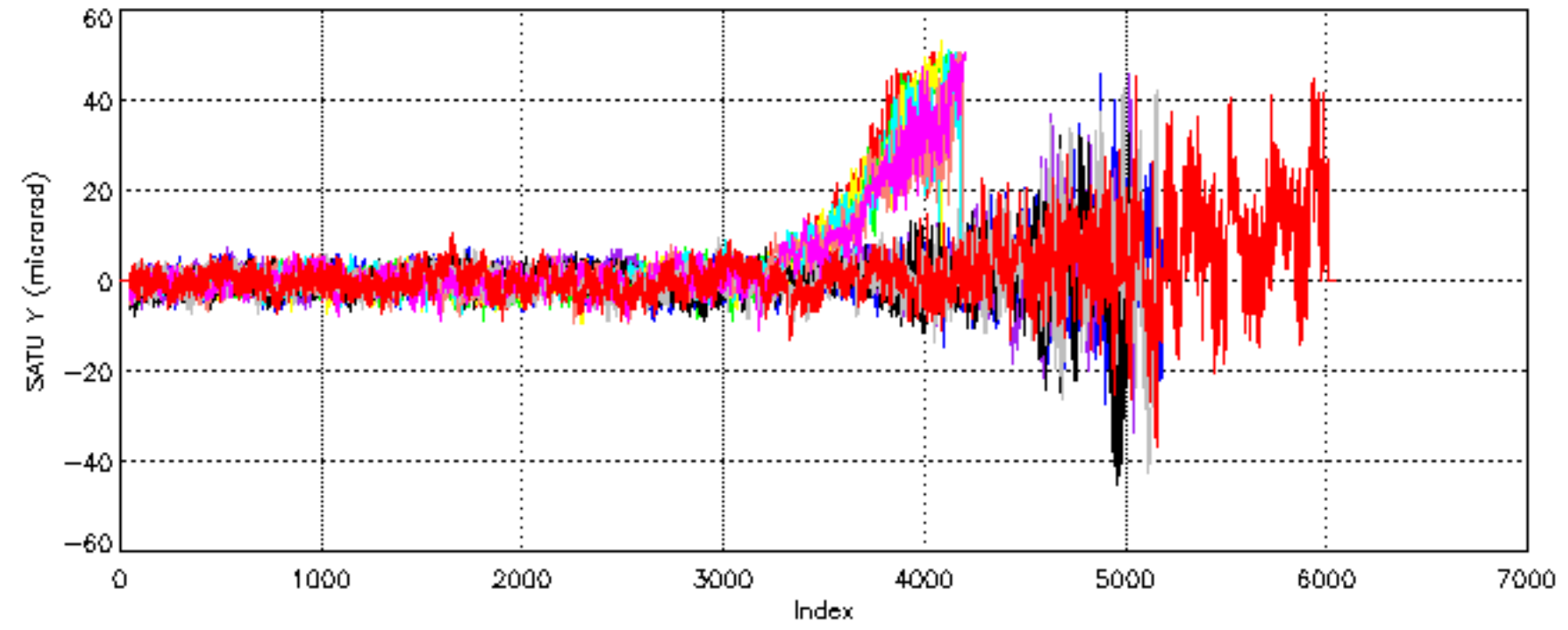
Tangent altitude at which the star is lost

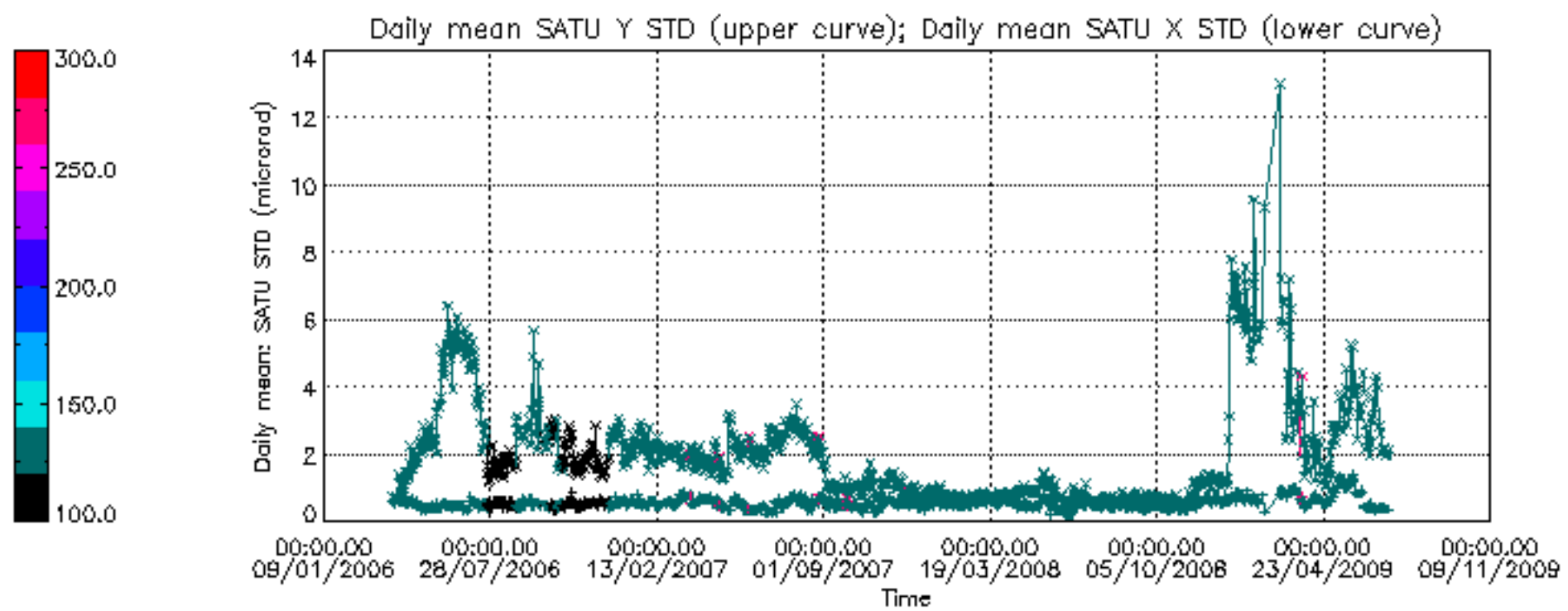


Tangent altitude at which the star is lost









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 9; 5016.6; 06-JUL-2009 17:20:57; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;38428
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 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
 5; 3739.4; 06-JUL-2009 18:40:15; Bright; 72.0; 74; 11Bet Cas ; 2.27; 6600;occ; 144; 0;38429
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 7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447
 8; 3277.8; 08-JUL-2009 00:43:20; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38447
 9; 3728.8; 08-JUL-2009 00:50:51; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38447
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 11; 4257.7; 08-JUL-2009 00:59:40; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38447
 12; 4431.9; 08-JUL-2009 01:02:34; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38447
 13; 4718.2; 08-JUL-2009 01:07:21; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38447
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 3; -1777.0; 07-JUL-2009 06:33:06; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38436
 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436
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 8; 193.7; 07-JUL-2009 07:05:57; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38437
 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437
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 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437
 4; 3734.6; 07-JUL-2009 08:04:58; Bright; 64.5; 74; 11Bet Cas ; 2.27; 6600;occ; 129; 0;38437
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 6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437
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 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437
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 3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438
 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438
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12; 6610.1; 07-JUL-2009 10:33:29; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38438
13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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 3; 3733.6; 07-JUL-2009 11:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38439
 4; 3847.3; 07-JUL-2009 11:28:02; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38439
 5; 4258.7; 07-JUL-2009 11:34:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38439
 6; 4431.1; 07-JUL-2009 11:37:46; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38439
 7; 4714.9; 07-JUL-2009 11:42:30; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38439
 8; 5022.3; 07-JUL-2009 11:47:37; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38439
 9; 5593.7; 07-JUL-2009 11:57:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38439
10; 6233.0; 07-JUL-2009 12:07:48; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38439
11; 6611.0; 07-JUL-2009 12:14:06; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38439
12; 6719.5; 07-JUL-2009 12:15:55; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38439
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 3; 3282.2; 07-JUL-2009 12:59:13; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38440
 4; 3732.9; 07-JUL-2009 13:06:44; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38440
 5; 3847.0; 07-JUL-2009 13:08:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38440
 6; 4258.4; 07-JUL-2009 13:15:29; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;38440
 7; 4431.5; 07-JUL-2009 13:18:22; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38440
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12; 6611.9; 07-JUL-2009 13:54:43; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38440
13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
 5; 3846.8; 07-JUL-2009 14:49:14; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38441
 6; 4258.4; 07-JUL-2009 14:56:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38441
 7; 4431.5; 07-JUL-2009 14:58:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38441
 8; 4715.8; 07-JUL-2009 15:03:43; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;38441
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13; 6721.3; 07-JUL-2009 15:37:08; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38441
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 3; 3281.0; 07-JUL-2009 16:20:24; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38442
 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
 5; 3846.6; 07-JUL-2009 16:29:49; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38442
 6; 4258.2; 07-JUL-2009 16:36:41; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38442
 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
 8; 4716.1; 07-JUL-2009 16:44:19; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38442
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13; 6722.1; 07-JUL-2009 17:17:45; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38442
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 3; 3280.4; 07-JUL-2009 18:00:59; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38443
 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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4; -1604.0; 08-JUL-2009 06:04:22; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38450

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4; 3725.7; 08-JUL-2009 09:13:48; Bright; 59.5; 74; 11Bet Cas ; 2.27; 6600;occ; 119; 0;38452
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6; 4256.9; 08-JUL-2009 09:22:39; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38452
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9; 623.7; 11-JUL-2009 06:47:15; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;38494
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4; 3699.4; 11-JUL-2009 07:38:31; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38494
5; 3826.4; 11-JUL-2009 07:40:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38494
6; 4049.7; 11-JUL-2009 07:44:21; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;38494
7; 4251.3; 11-JUL-2009 07:47:42; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38494
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3; 3247.6; 11-JUL-2009 09:11:35; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38495
4; 3698.7; 11-JUL-2009 09:19:06; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38495
5; 3826.1; 11-JUL-2009 09:21:13; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38495
6; 4049.4; 11-JUL-2009 09:24:57; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;38495
7; 4250.9; 11-JUL-2009 09:28:18; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38495
8; 4434.1; 11-JUL-2009 09:31:21; Dark ; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;38495

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3; 3247.0; 11-JUL-2009 10:52:10; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38496
4; 3698.1; 11-JUL-2009 10:59:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38496
5; 3825.6; 11-JUL-2009 11:01:49; Bright; 57.0; 110; 37Del Cas ; 2.68; 8900;occ; 114; 0;38496
6; 4049.2; 11-JUL-2009 11:05:32; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38496
7; 4250.7; 11-JUL-2009 11:08:54; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38496
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5; 3824.8; 11-JUL-2009 14:23:00; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38498
6; 4049.2; 11-JUL-2009 14:26:44; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;38498
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8; 4434.4; 11-JUL-2009 14:33:09; Dark ; 33.0; 173; 4Bet Tri ; 3.00; 8900;occ; 66; 0;38498
9; 5056.9; 11-JUL-2009 14:43:32; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;38498
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 3; 668.7; 14-JUL-2009 21:59:08; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38546
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4; 3213.1; 15-JUL-2009 08:45:08; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38552
5; 3660.4; 15-JUL-2009 08:52:35; Bright; 56.0; 74; 11Bet Cas ; 2.27; 6600;occ; 112; 0;38552
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4; 3212.6; 15-JUL-2009 10:25:44; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38553
5; 3659.8; 15-JUL-2009 10:33:11; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38553
6; 3801.5; 15-JUL-2009 10:35:33; Bright; 47.0; 110; 37Del Cas ; 2.68; 8900;occ; 94; 0;38553
7; 4040.7; 15-JUL-2009 10:39:32; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;38553
8; 4121.2; 15-JUL-2009 10:40:52; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38553
9; 4297.0; 15-JUL-2009 10:43:48; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38553
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4; 3211.8; 15-JUL-2009 12:06:19; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38554
5; 3659.0; 15-JUL-2009 12:13:46; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38554
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7; 4040.7; 15-JUL-2009 12:20:08; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38554
8; 4121.1; 15-JUL-2009 12:21:28; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38554
9; 4297.0; 15-JUL-2009 12:24:24; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;38554
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13; 6712.1; 15-JUL-2009 13:04:39; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38554

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5; 3209.0; 15-JUL-2009 20:29:16; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38559
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 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585
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 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586
 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
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 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591
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6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
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4;-1919.2; 18-JUL-2009 05:44:45; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;38593
5;-1740.4; 18-JUL-2009 05:47:44; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38593
6;-1561.7; 18-JUL-2009 05:50:42; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38593
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16; 3189.0; 18-JUL-2009 07:09:53; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38594
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6; 3625.2; 18-JUL-2009 20:41:57; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38602
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9; 4115.5; 18-JUL-2009 20:50:07; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38602
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4; 715.1; 18-JUL-2009 21:34:03; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;38603
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6; 1000.0; 18-JUL-2009 21:38:48; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38603
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7; 4020.1; 22-JUL-2009 15:20:51; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38656
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9; 4317.4; 24-JUL-2009 16:03:11; Bright; 41.5; 149; 45Eps Per ; 2.89; 30000;occ; 83; 0;38685
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6; 3561.5; 24-JUL-2009 19:11:47; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;38687
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3; -103.8; 25-JUL-2009 21:00:16; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38702
4; 496.1; 25-JUL-2009 21:10:16; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38703
5; 870.6; 25-JUL-2009 21:16:31; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38703
6; 1062.3; 25-JUL-2009 21:19:43; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38703
7; 2069.2; 25-JUL-2009 21:36:29; Bright; 41.0; 11; 53Alp Aql ; 0.76; 8000;occ; 82; 0;38703
8; 2634.0; 25-JUL-2009 21:45:54; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38703
9; 2813.7; 25-JUL-2009 21:48:54; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38703
10; 3131.4; 25-JUL-2009 21:54:12; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38703
11; 3549.0; 25-JUL-2009 22:01:09; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38703
12; 3654.9; 25-JUL-2009 22:02:55; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38703
13; 4007.3; 25-JUL-2009 22:08:47; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38703
14; 4099.2; 25-JUL-2009 22:10:19; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38703
15; 4287.2; 25-JUL-2009 22:13:27; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38703
16; 4489.1; 25-JUL-2009 22:16:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38703
17; 4663.3; 25-JUL-2009 22:19:43; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38703
18; 4758.6; 25-JUL-2009 22:21:19; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;38703
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3; -103.1; 25-JUL-2009 22:40:53; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38703
4; 497.3; 25-JUL-2009 22:50:53; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38704
5; 871.0; 25-JUL-2009 22:57:07; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38704
6; 1062.8; 25-JUL-2009 23:00:19; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38704
7; 2069.1; 25-JUL-2009 23:17:05; Bright; 41.5; 11; 53Alp Aql ; 0.76; 8000;occ; 83; 0;38704
8; 2633.3; 25-JUL-2009 23:26:29; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38704
9; 2813.1; 25-JUL-2009 23:29:29; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38704
10; 3131.0; 25-JUL-2009 23:34:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38704
11; 3548.1; 25-JUL-2009 23:41:44; Bright; 73.5; 74; 11Bet Cas ; 2.27; 6600;occ; 147; 0;38704
12; 3654.3; 25-JUL-2009 23:43:30; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;38704
13; 4007.0; 25-JUL-2009 23:49:23; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38704
14; 4098.9; 25-JUL-2009 23:50:55; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38704
15; 4287.2; 25-JUL-2009 23:54:03; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;38704
16; 4489.3; 25-JUL-2009 23:57:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38704
17; 4663.7; 26-JUL-2009 00:00:20; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38704
18; 4758.9; 26-JUL-2009 00:01:55; Dark ; 45.0; 13; 87Alp Tau ; 0.87; 3800;occ; 90; 0;38704
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2; -2026.0; 25-JUL-2009 07:03:27; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38694
3; -1934.8; 25-JUL-2009 07:04:58; Bright; 48.0; 35; 33Alp Per ; 1.79; 6250;occ; 96; 0;38694
4; -1747.6; 25-JUL-2009 07:08:05; Bright; 51.0; 79; 26Bet Per ; 2.31; 13100;occ; 102; 0;38694
5; -1548.2; 25-JUL-2009 07:11:25; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38694
6; -1375.6; 25-JUL-2009 07:14:17; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38694
7; -1280.1; 25-JUL-2009 07:15:53; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38694
8; -669.3; 25-JUL-2009 07:26:03; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38694
9; -440.7; 25-JUL-2009 07:29:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38694
10; -110.7; 25-JUL-2009 07:35:22; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38694

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13; 1057.8; 25-JUL-2009 07:54:50; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38695
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2; 2639.9; 25-JUL-2009 08:21:13; Bright; 49.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 98; 0;38695
3; 2818.8; 25-JUL-2009 08:24:12; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38695
4; 3135.5; 25-JUL-2009 08:29:28; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38695
5; 3555.3; 25-JUL-2009 08:36:28; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38695
6; 3660.0; 25-JUL-2009 08:38:13; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38695
7; 4009.7; 25-JUL-2009 08:44:02; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38695
8; 4100.9; 25-JUL-2009 08:45:34; Bright; 64.0; 35; 33Alp Per ; 1.79; 6250;occ; 128; 0;38695
9; 4288.3; 25-JUL-2009 08:48:41; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38695
10; 4488.0; 25-JUL-2009 08:52:01; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38695
11; 4660.6; 25-JUL-2009 08:54:53; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38695
12; 4756.2; 25-JUL-2009 08:56:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;38695
13; 5367.4; 25-JUL-2009 09:06:40; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38695
14; 5596.5; 25-JUL-2009 09:10:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38695
15; 5926.0; 25-JUL-2009 09:15:59; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38695
16; 6524.3; 25-JUL-2009 09:25:57; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38695
17; 6902.2; 25-JUL-2009 09:32:15; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38695
18; 7094.3; 25-JUL-2009 09:35:27; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38695
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2; 2639.2; 25-JUL-2009 10:01:48; Bright; 70.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 140; 0;38696
3; 2818.2; 25-JUL-2009 10:04:47; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38696
4; 3134.8; 25-JUL-2009 10:10:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38696
5; 3554.5; 25-JUL-2009 10:17:03; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38696
6; 3659.3; 25-JUL-2009 10:18:48; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38696
7; 4009.2; 25-JUL-2009 10:24:38; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38696
8; 4100.7; 25-JUL-2009 10:26:09; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38696
9; 4288.1; 25-JUL-2009 10:29:17; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38696
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11; 4661.0; 25-JUL-2009 10:35:30; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38696
12; 4756.5; 25-JUL-2009 10:37:05; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;38696
13; 5368.1; 25-JUL-2009 10:47:17; Dark ; 46.0; 165; 34Gam Eri ; 2.95; 3200;occ; 92; 0;38696
14; 5597.8; 25-JUL-2009 10:51:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38696
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17; 6902.8; 25-JUL-2009 11:12:51; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38696
18; 7094.7; 25-JUL-2009 11:16:03; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38696
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3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
4; 3134.4; 25-JUL-2009 11:50:39; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38697
5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
6; 3658.7; 25-JUL-2009 11:59:23; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38697
7; 4009.0; 25-JUL-2009 12:05:13; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38697
8; 4100.5; 25-JUL-2009 12:06:45; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38697
9; 4288.0; 25-JUL-2009 12:09:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38697
10; 4488.2; 25-JUL-2009 12:13:13; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38697
11; 4661.3; 25-JUL-2009 12:16:06; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38697
12; 4756.7; 25-JUL-2009 12:17:41; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38697
13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
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17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
18; 7095.3; 25-JUL-2009 12:56:40; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38697
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2; 2637.7; 25-JUL-2009 13:22:58; Bright; 49.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 99; 0;38698
3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698

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8; 4287.9; 25-JUL-2009 13:50:28; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38698
 9; 4488.6; 25-JUL-2009 13:53:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38698
 10; 4661.8; 25-JUL-2009 13:56:42; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38698
 11; 4757.1; 25-JUL-2009 13:58:17; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;38698
 12; 5369.8; 25-JUL-2009 14:08:30; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38698
 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698
 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698
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 3; 2816.3; 25-JUL-2009 15:06:33; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38699
 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
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 18; 7096.8; 25-JUL-2009 16:17:53; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38699

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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700
 8; 4100.0; 25-JUL-2009 17:08:32; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38700
 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700
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 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
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7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
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7; -1371.6; 26-JUL-2009 03:21:32; Dark ; 52.5; 146; 25Eta Tau ; 2.87; 15200;occ; 105; 0;38706
8; -1276.4; 26-JUL-2009 03:23:07; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;38706
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12; 873.4; 26-JUL-2009 05:39:33; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38708
13; 1065.1; 26-JUL-2009 05:42:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38708
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8; 4094.4; 27-JUL-2009 12:44:01; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38726

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 17; 6920.5; 27-JUL-2009 13:31:07; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38726
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 16; 6561.5; 27-JUL-2009 16:46:20; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38728
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 12; 4767.4; 27-JUL-2009 17:57:02; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;38729
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 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730
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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734
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 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
 12; 3524.7; 28-JUL-2009 01:59:19; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38734
 13; 3635.0; 28-JUL-2009 02:01:09; Bright; 65.0; 76; 27Gam Cas ; 2.30; 30000;occ; 130; 0;38734
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 7; 3609.7; 30-JUL-2009 17:43:29; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38772
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 4; 2589.4; 30-JUL-2009 19:07:05; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38773
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 12; 4499.1; 30-JUL-2009 19:38:54; Dark ; 55.0; 150; 44Zet Per ; 2.89; 28000;occ; 110; 0;38773
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4; -1251.4; 31-JUL-2009 02:26:03; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;38777
5; -759.7; 31-JUL-2009 02:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38777
6; -601.0; 31-JUL-2009 02:36:54; Dark ; 57.5; 165; 34Gam Eri ; 2.95; 3200;occ; 115; 0;38777
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12; 2586.6; 31-JUL-2009 03:30:01; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38778
13; 2772.8; 31-JUL-2009 03:33:08; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38778
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5; 1826.3; 31-JUL-2009 06:38:33; Bright; 28.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 56; 0;38780
6; 2585.6; 31-JUL-2009 06:51:12; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38780
7; 2771.8; 31-JUL-2009 06:54:19; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38780
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4; 2581.1; 31-JUL-2009 20:15:55; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;38788
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6; 3092.4; 31-JUL-2009 20:24:27; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38788
7; 3481.2; 31-JUL-2009 20:30:56; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38788
8; 3598.7; 31-JUL-2009 20:32:53; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38788
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