

GOMOS Daily Report 18-SEP-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	21SEP2009 04:42:22
Data source version	GOMOS/5.00
Start time of products	18SEP2009 00:00:11
Stop time of products	18SEP2009 23:49:09
Store outputs in DB	Yes
Nb of level 1b prods	56
Nb of prods with errors	0

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

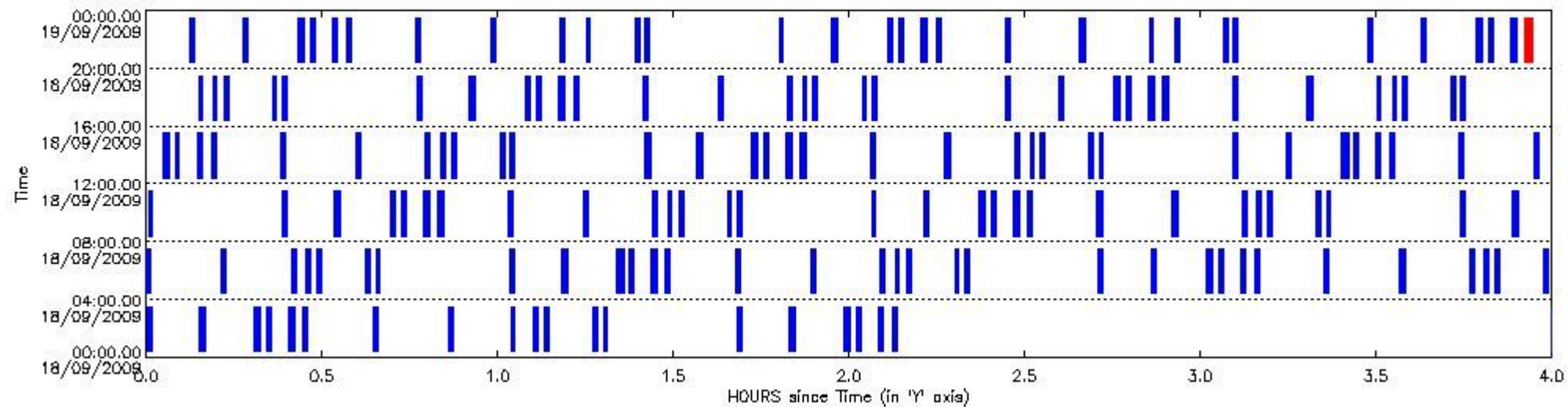
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

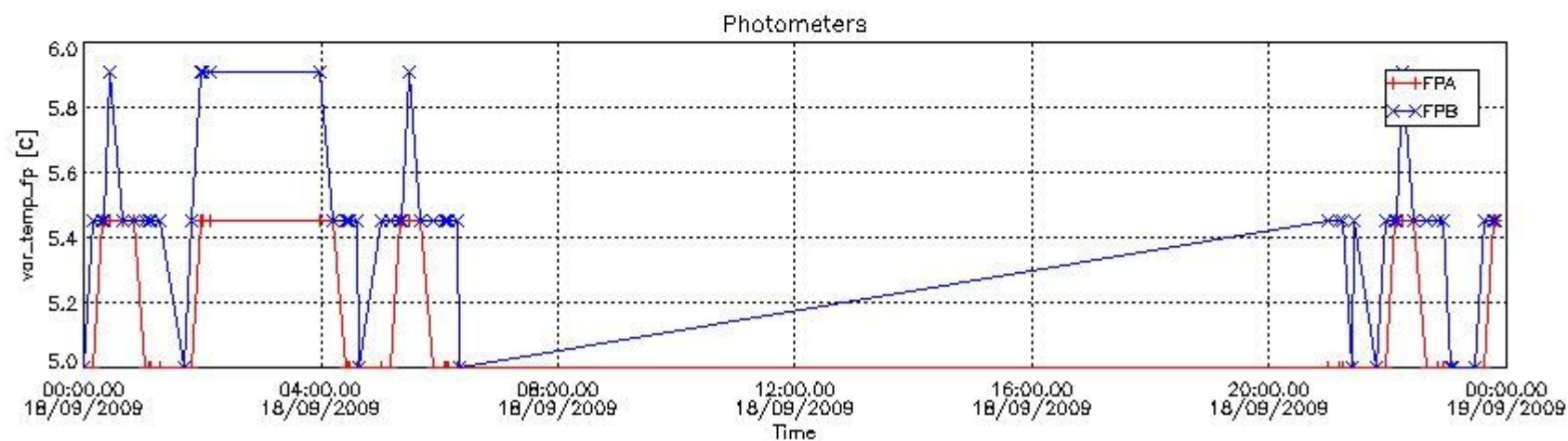
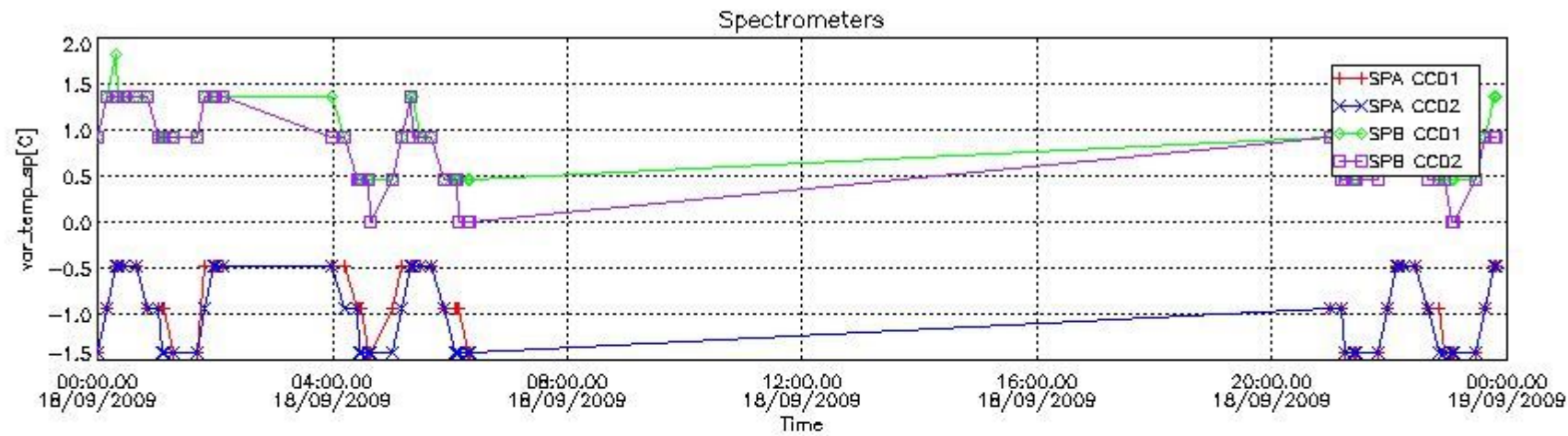
UTC start time	Star name	Star ID	Orbit
18-SEP-2009 23:55:28	AlpCol	108	39492

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_1PNPDE20090918_000011_000000482082_00345_39477_8602.N1	18-SEP-2009 00:00:11	Bright	47.500	24	66Alp Gem	1.5800	10200.	95	39477	No
2	GOM_TRA_1PNPDE20090918_000904_000000592082_00345_39477_8603.N1	18-SEP-2009 00:09:04	Dark	59.000	8	10Alp CMi	0.40000	6500.0	118	39477	No
3	GOM_TRA_1PNPDE20090918_001828_000000592082_00345_39477_8746.N1	18-SEP-2009 00:18:28	Dark	58.500	1	9Alp CMa	-1.4400	11000.	117	39477	No
4	GOM_TRA_1PNPDE20090918_002033_000000492082_00345_39477_8747.N1	18-SEP-2009 00:20:33	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	39477	No
5	GOM_TRA_1PNPDE20090918_002644_000000532082_00346_39478_8748.N1	18-SEP-2009 00:26:44	Dark	52.500	108	Alp Col	2.6520	15200.	105	39478	No
6	GOM_TRA_1PNPDE20090918_003838_000000542082_00346_39478_8749.N1	18-SEP-2009 00:38:38	Dark	53.500	157	The1Eri	2.9060	9300.0	107	39478	No
7	GOM_TRA_1PNPDE20090918_005133_000000542082_00346_39478_8750.N1	18-SEP-2009 00:51:33	Twilight	54.000	52	16Bet Cet	2.0370	4500.0	108	39478	No
8	GOM_TRA_1PNPDE20090918_010216_000000382082_00346_39478_8751.N1	18-SEP-2009 01:02:16	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	39478	No
9	GOM_TRA_1PNPDE20090918_010606_000000412082_00346_39478_8752.N1	18-SEP-2009 01:06:06	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	39478	No
10	GOM_TRA_1PNPDE20090918_010758_000000452082_00346_39478_8753.N1	18-SEP-2009 01:07:58	Bright	45.000	58	21Alp And	2.0730	11000.	90	39478	No

11	GOM_TRA_1PNPDE20090918_011616_000000412082_00346_39478_8754.N1	18-SEP-2009 01:16:16	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	39478	No
12	GOM_TRA_1PNPDE20090918_011800_000000442082_00346_39478_8755.N1	18-SEP-2009 01:18:00	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	39478	No
13	GOM_TRA_1PNPDE20090918_014047_000000492082_00346_39478_8756.N1	18-SEP-2009 01:40:47	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	39478	No
14	GOM_TRA_1PNPDE20090918_014941_000000652082_00346_39478_8757.N1	18-SEP-2009 01:49:41	Dark	64.500	8	10Alp CMi	0.40000	6500.0	129	39478	No
15	GOM_TRA_1PNPDE20090918_015905_000000612082_00346_39478_8888.N1	18-SEP-2009 01:59:05	Dark	60.500	1	9Alp CMa	-1.4400	11000.	121	39478	No
16	GOM_TRA_1PNPDE20090918_020110_000000522082_00346_39478_8889.N1	18-SEP-2009 02:01:10	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	39478	No
17	GOM_TRA_1PNPDE20090918_020721_000000512082_00347_39479_8890.N1	18-SEP-2009 02:07:21	Dark	51.000	108	Alp Col	2.6520	15200.	102	39479	No
18	GOM_TRA_1PNPDE20090918_035952_000000542082_00348_39480_9043.N1	18-SEP-2009 03:59:52	Dark	53.500	157	The1Eri	2.9060	9300.0	107	39480	No
19	GOM_TRA_1PNPDE20090918_041245_000000562082_00348_39480_9044.N1	18-SEP-2009 04:12:45	Tw_i_and_stray	55.500	52	16Bet Cet	2.0370	4500.0	111	39480	No
20	GOM_TRA_1PNPDE20090918_042444_000000472082_00348_39480_9045.N1	18-SEP-2009 04:24:44	Bright	47.000	140	88Gam Peg	2.8340	26000.	94	39480	No
21	GOM_TRA_1PNPDE20090918_042718_000000392082_00348_39480_9046.N1	18-SEP-2009 04:27:18	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	39480	No
22	GOM_TRA_1PNPDE20090918_042909_000000522082_00348_39480_9047.N1	18-SEP-2009 04:29:09	Bright	51.500	58	21Alp And	2.0730	11000.	103	39480	No
23	GOM_TRA_1PNPDE20090918_043727_000000412082_00348_39480_9048.N1	18-SEP-2009 04:37:27	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	39480	No
24	GOM_TRA_1PNPDE20090918_043911_000000432082_00348_39480_9049.N1	18-SEP-2009 04:39:11	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39480	No
25	GOM_TRA_1PNPDE20090918_050159_000000462082_00348_39480_9201.N1	18-SEP-2009 05:01:59	Bright	45.500	24	66Alp Gem	1.5800	10200.	91	39480	No
26	GOM_TRA_1PNPDE20090918_051054_000000652082_00348_39480_9202.N1	18-SEP-2009 05:10:54	Dark	65.000	8	10Alp CMi	0.40000	6500.0	130	39480	No
27	GOM_TRA_1PNPDE20090918_052019_000000732082_00348_39480_9203.N1	18-SEP-2009 05:20:19	Dark	72.500	1	9Alp CMa	-1.4400	11000.	145	39480	No
28	GOM_TRA_1PNPDE20090918_052224_000000492082_00348_39480_9204.N1	18-SEP-2009 05:22:24	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	39480	No
29	GOM_TRA_1PNPDE20090918_052836_000000532082_00349_39481_9205.N1	18-SEP-2009 05:28:36	Dark	52.500	108	Alp Col	2.6520	15200.	105	39481	No
30	GOM_TRA_1PNPDE20090918_054029_000000542082_00349_39481_9206.N1	18-SEP-2009 05:40:29	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39481	No
31	GOM_TRA_1PNPDE20090918_055321_000000552082_00349_39481_9207.N1	18-SEP-2009 05:53:21	Tw_i_and_stray	54.500	52	16Bet Cet	2.0370	4500.0	109	39481	No
32	GOM_TRA_1PNPDE20090918_060520_000000462082_00349_39481_9208.N1	18-SEP-2009 06:05:20	Bright	46.000	140	88Gam Peg	2.8340	26000.	92	39481	No
33	GOM_TRA_1PNPDE20090918_060753_000000402082_00349_39481_9209.N1	18-SEP-2009 06:07:53	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	39481	No
34	GOM_TRA_1PNPDE20090918_060944_000000462082_00349_39481_9210.N1	18-SEP-2009 06:09:44	Bright	46.000	58	21Alp And	2.0730	11000.	92	39481	No
35	GOM_TRA_1PNPDE20090918_061802_000000412082_00349_39481_9211.N1	18-SEP-2009 06:18:02	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	39481	No
36	GOM_TRA_1PNPDE20090918_061946_000000422082_00349_39481_9212.N1	18-SEP-2009 06:19:46	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39481	No
37	GOM_TRA_1PNPDE20090918_205846_000000562082_00358_39490_9809.N1	18-SEP-2009 20:58:46	Tw_i_and_stray	56.000	52	16Bet Cet	2.0370	4500.0	112	39490	No
38	GOM_TRA_1PNPDE20090918_211038_000000472082_00358_39490_9810.N1	18-SEP-2009 21:10:38	Bright	46.500	140	88Gam Peg	2.8340	26000.	93	39490	No
39	GOM_TRA_1PNPDE20090918_211502_000000472082_00358_39490_9811.N1	18-SEP-2009 21:15:02	Bright	46.500	58	21Alp And	2.0730	11000.	93	39490	No
40	GOM_TRA_1PNPDE20090918_212322_000000592082_00358_39490_9812.N1	18-SEP-2009 21:23:22	Bright	59.000	74	11Bet Cas	2.2680	6600.0	118	39490	No
41	GOM_TRA_1PNPDE20090918_212504_000000432082_00358_39490_9813.N1	18-SEP-2009 21:25:04	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39490	No
42	GOM_TRA_1PNPDE20090918_214800_000000472082_00358_39490_9814.N1	18-SEP-2009 21:48:00	Bright	46.500	24	66Alp Gem	1.5800	10200.	93	39490	No
43	GOM_TRA_1PNPDE20090918_215659_000000602082_00358_39490_9815.N1	18-SEP-2009 21:56:59	Dark	60.000	8	10Alp CMi	0.40000	6500.0	120	39490	No
44	GOM_TRA_1PNPDE20090918_220630_000000622082_00358_39490_9969.N1	18-SEP-2009 22:06:30	Dark	61.500	1	9Alp CMa	-1.4400	11000.	123	39490	No
45	GOM_TRA_1PNPDE20090918_220832_000000482082_00358_39490_9970.N1	18-SEP-2009 22:08:32	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	39490	No
46	GOM_TRA_1PNPDE20090918_221448_000000532082_00359_39491_9971.N1	18-SEP-2009 22:14:48	Dark	52.500	108	Alp Col	2.6520	15200.	105	39491	No
47	GOM_TRA_1PNPDE20090918_222638_000000542082_00359_39491_9972.N1	18-SEP-2009 22:26:38	Dark	53.500	157	The1Eri	2.9060	9300.0	107	39491	No
48	GOM_TRA_1PNPDE20090918_223922_000000552082_00359_39491_9973.N1	18-SEP-2009 22:39:22	Tw_i_and_stray	54.500	52	16Bet Cet	2.0370	4500.0	109	39491	No
49	GOM_TRA_1PNPDE20090918_225114_000000472082_00359_39491_9974.N1	18-SEP-2009 22:51:14	Bright	46.500	140	88Gam Peg	2.8340	26000.	93	39491	No
50	GOM_TRA_1PNPDE20090918_225537_000000442082_00359_39491_9975.N1	18-SEP-2009 22:55:37	Bright	44.000	58	21Alp And	2.0730	11000.	88	39491	No
51	GOM_TRA_1PNPDE20090918_230357_000000412082_00359_39491_9976.N1	18-SEP-2009 23:03:57	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	39491	No
52	GOM_TRA_1PNPDE20090918_230540_000000432082_00359_39491_9977.N1	18-SEP-2009 23:05:40	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39491	No
53	GOM_TRA_1PNPDE20090918_232836_000000472082_00359_39491_9978.N1	18-SEP-2009 23:28:36	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	39491	No
54	GOM_TRA_1PNPDE20090918_233735_000000582082_00359_39491_9979.N1	18-SEP-2009 23:37:35	Dark	58.000	8	10Alp CMi	0.40000	6500.0	116	39491	No
55	GOM_TRA_1PNPDE20090918_234707_000000612082_00359_39491_0129.N1	18-SEP-2009 23:47:07	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	39491	No
56	GOM_TRA_1PNPDE20090918_234909_000000502082_00359_39491_0130.N1	18-SEP-2009 23:49:09	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	39491	No

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



4. Overview of dark signal processing per product

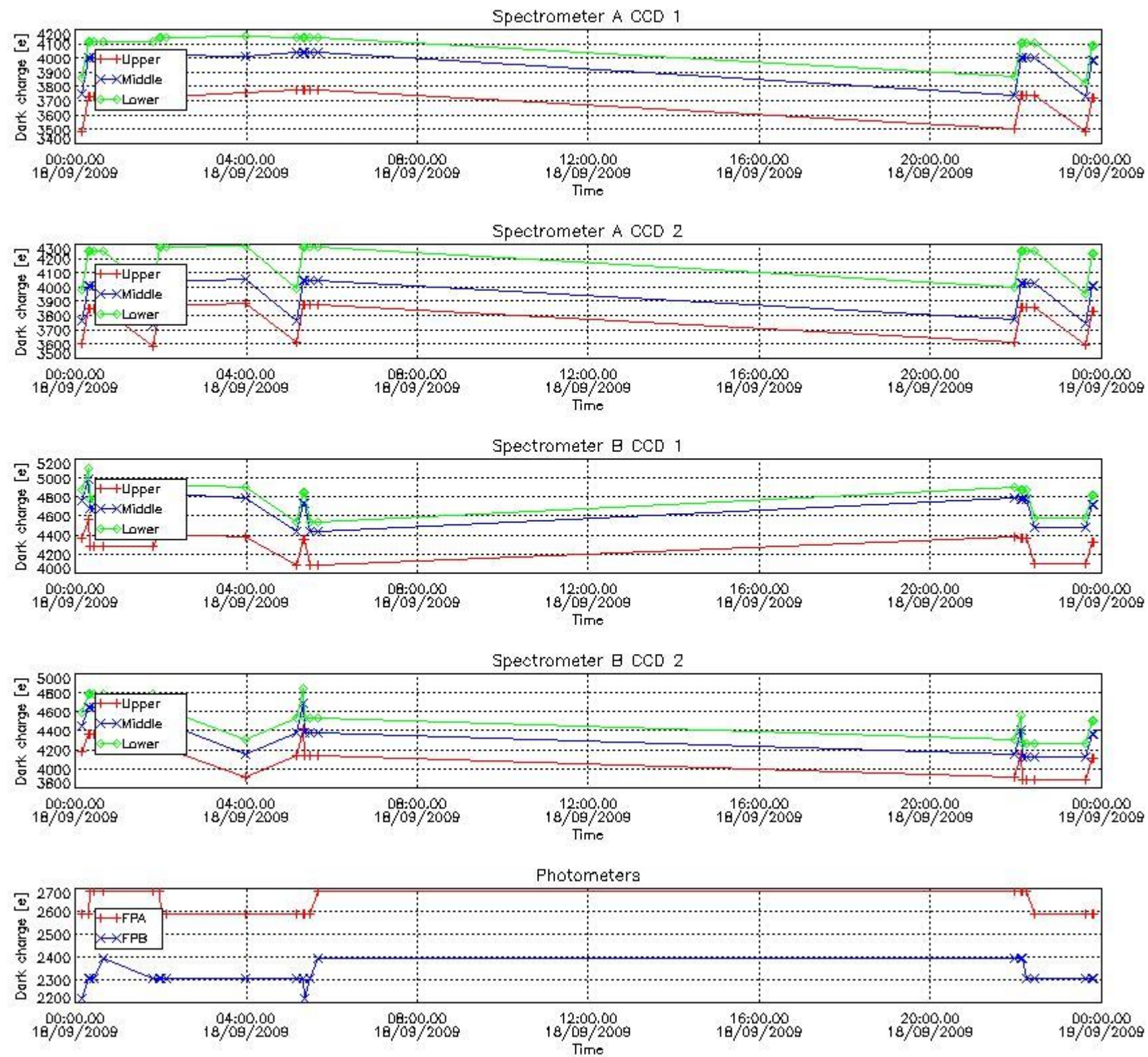
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090918_035952_000000542082_00348_39480_9043.N1	DC map used
GOM_TRA_1PNPDE20090918_041245_000000562082_00348_39480_9044.N1	DC map used
GOM_TRA_1PNPDE20090918_042444_000000472082_00348_39480_9045.N1	DC map used
GOM_TRA_1PNPDE20090918_042718_000000392082_00348_39480_9046.N1	DC map used
GOM_TRA_1PNPDE20090918_042909_000000522082_00348_39480_9047.N1	DC map used
GOM_TRA_1PNPDE20090918_043727_000000412082_00348_39480_9048.N1	DC map used
GOM_TRA_1PNPDE20090918_043911_000000432082_00348_39480_9049.N1	DC map used
GOM_TRA_1PNPDE20090918_205846_000000562082_00358_39490_9809.N1	DC map used
GOM_TRA_1PNPDE20090918_211038_000000472082_00358_39490_9810.N1	DC map used
GOM_TRA_1PNPDE20090918_211502_000000472082_00358_39490_9811.N1	DC map used
GOM_TRA_1PNPDE20090918_212322_000000592082_00358_39490_9812.N1	DC map used
GOM_TRA_1PNPDE20090918_212504_000000432082_00358_39490_9813.N1	DC map used
GOM_TRA_1PNPDE20090918_214800_000000472082_00358_39490_9814.N1	DC map used
GOM_TRA_1PNPDE20090918_215659_000000602082_00358_39490_9815.N1	DC map used

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



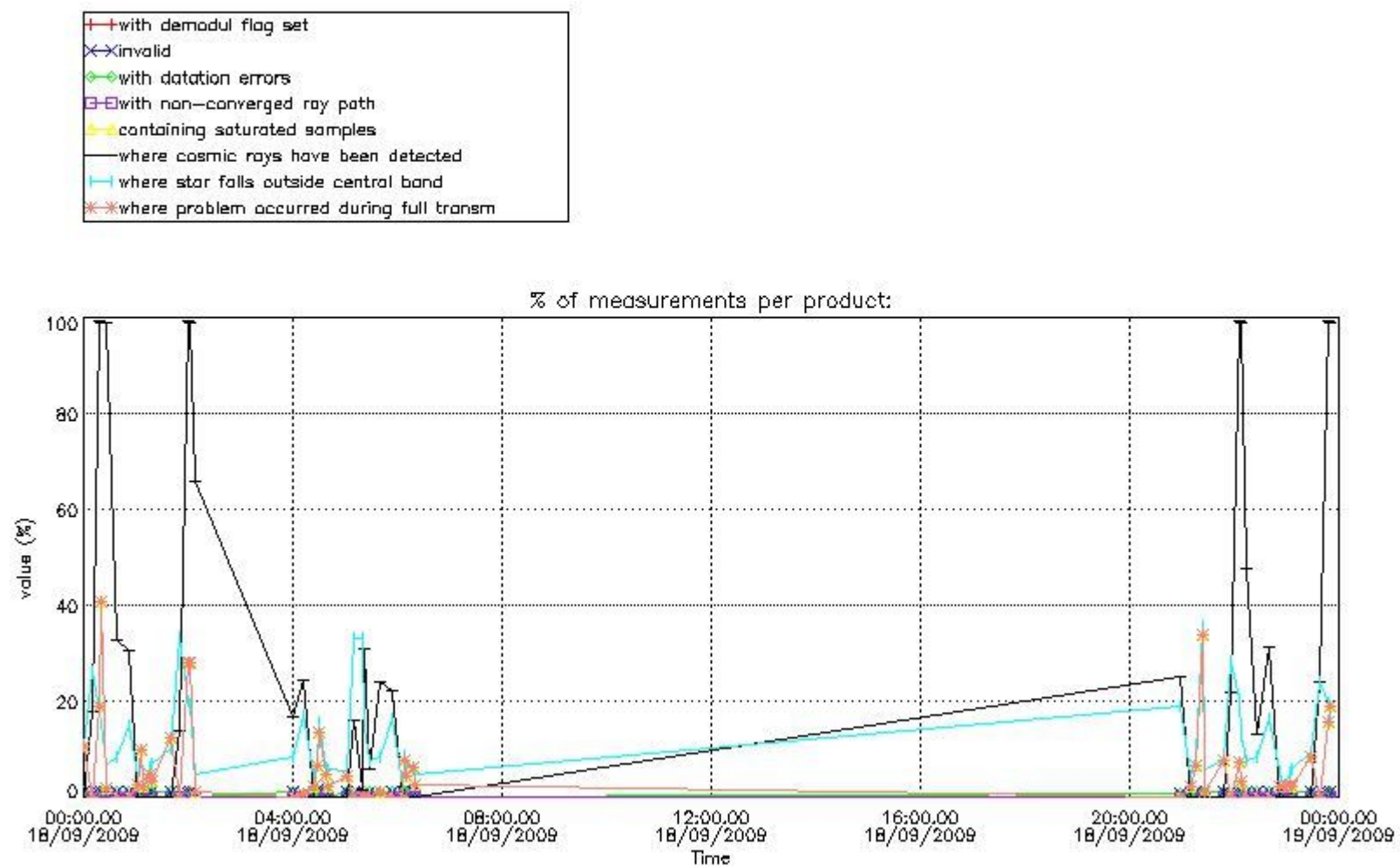
5. Demodulation flag and quality information monitoring

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.

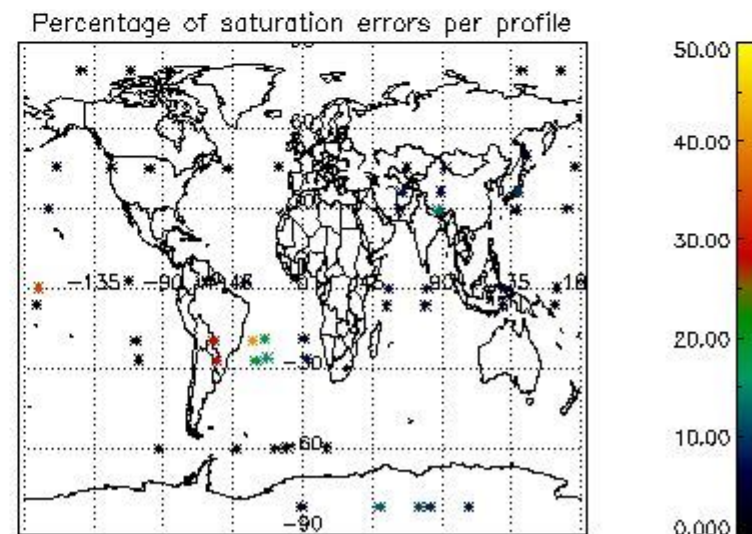
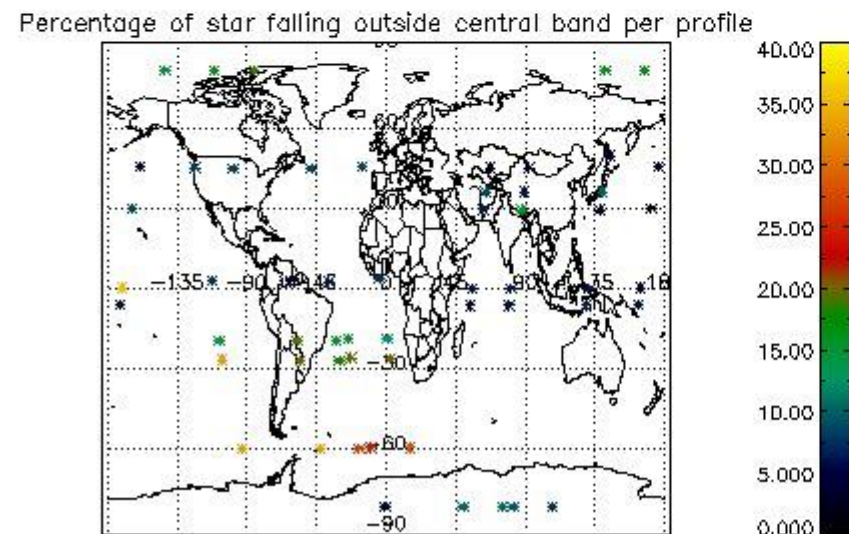
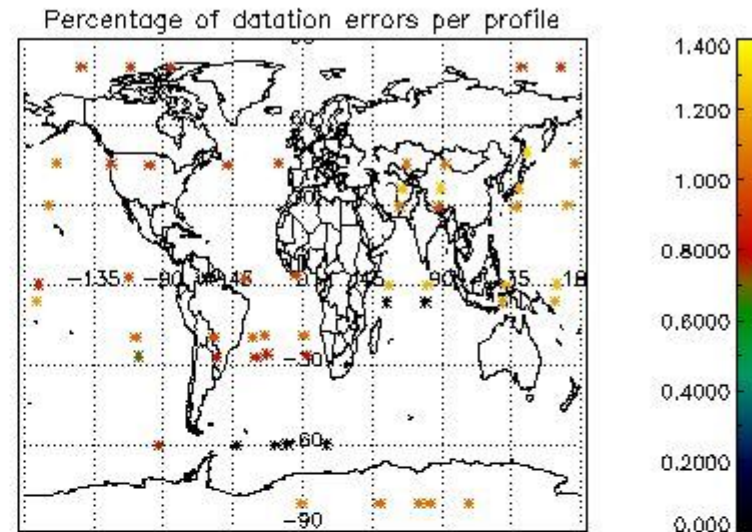
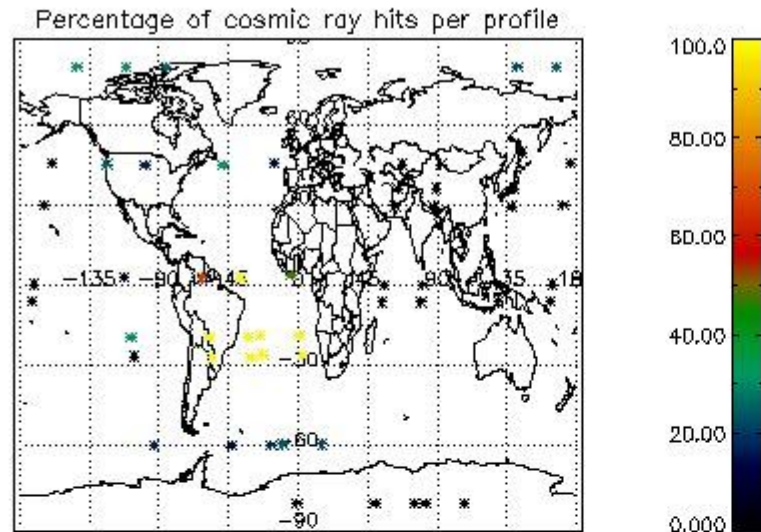
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	42.8571 %
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)



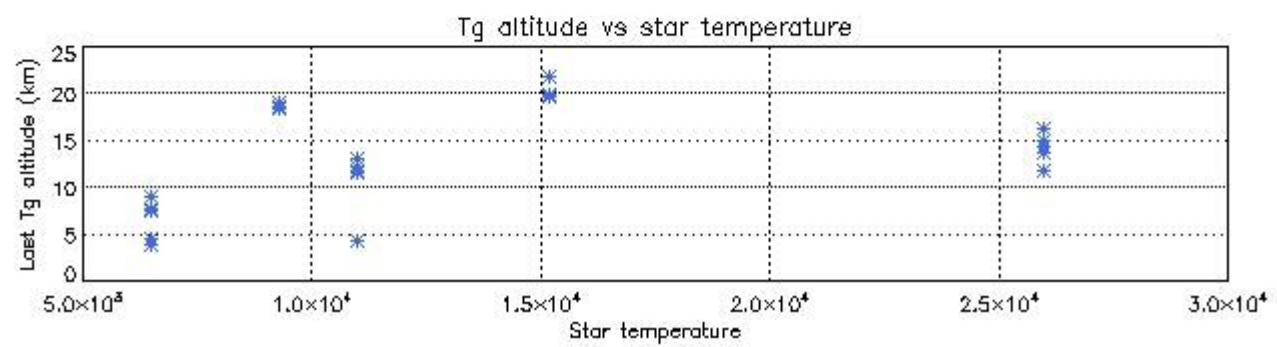
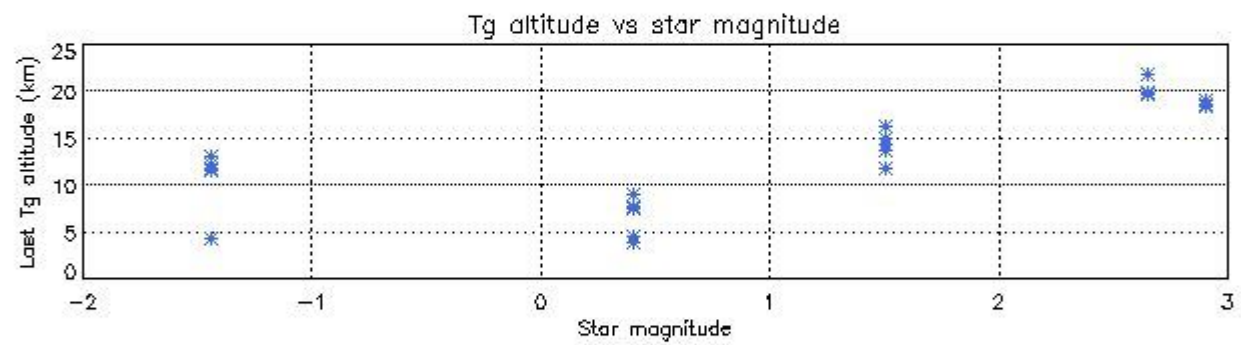
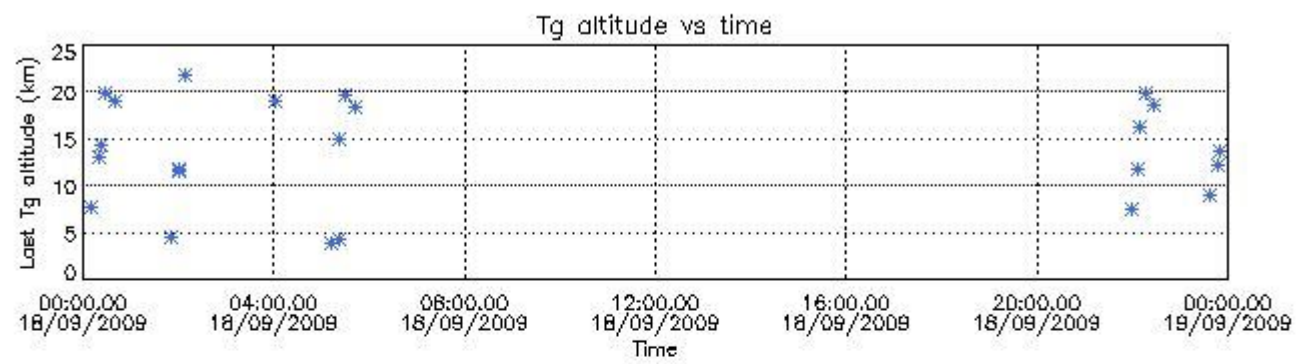
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.592	19.467	NaN
St. deviation:	5.5367	4.1043	NaN
Maximum:	21.813	24.142	NaN
Minimum:	3.7720	3.1985	NaN
Number of data:	23.000	28.000	NaN

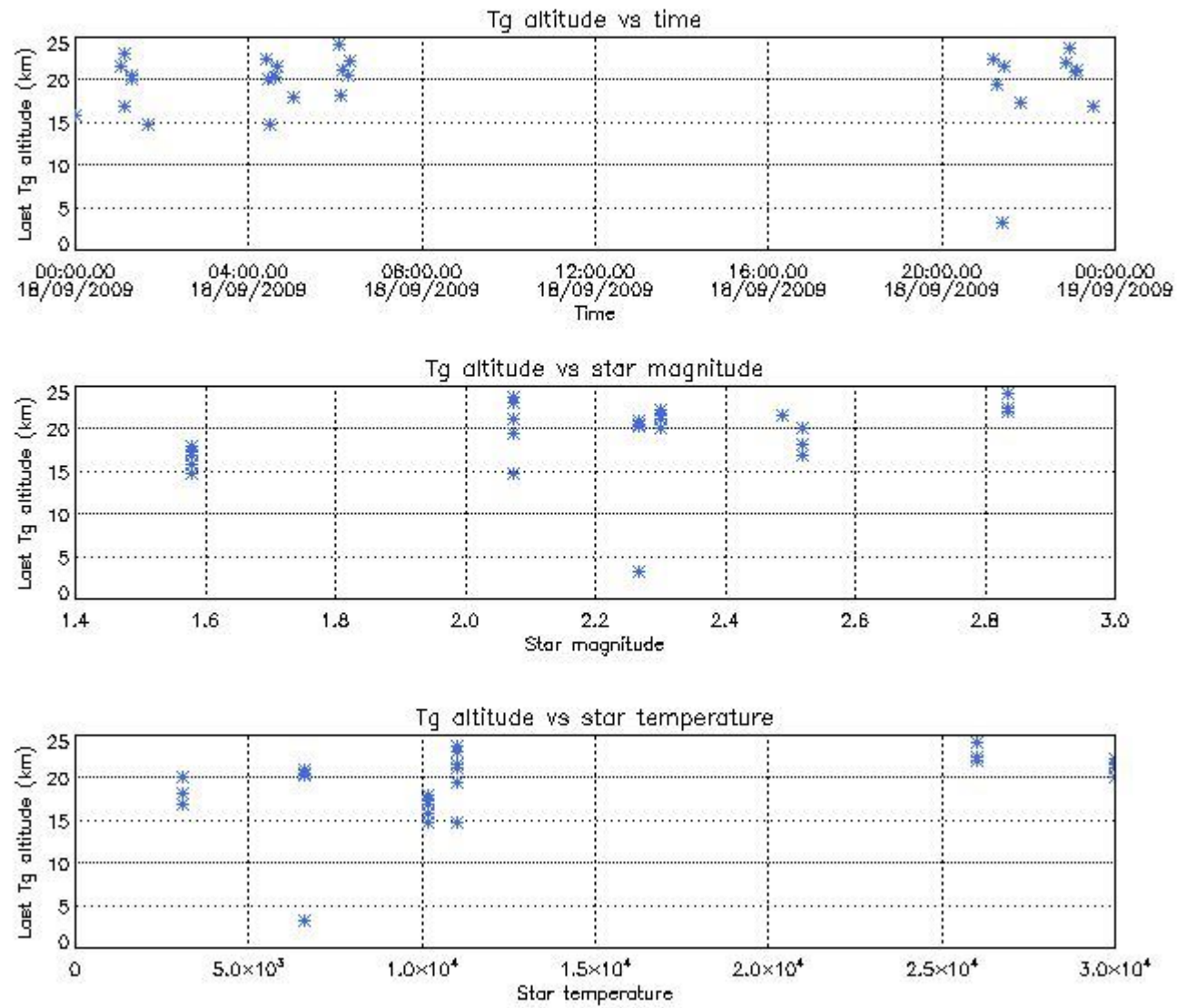
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

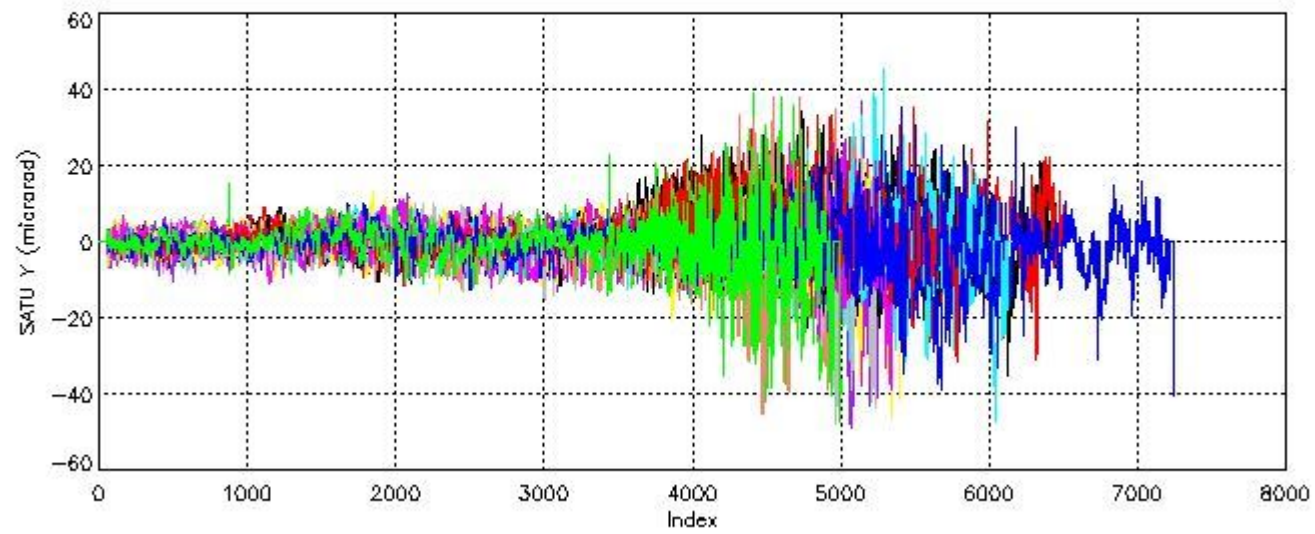
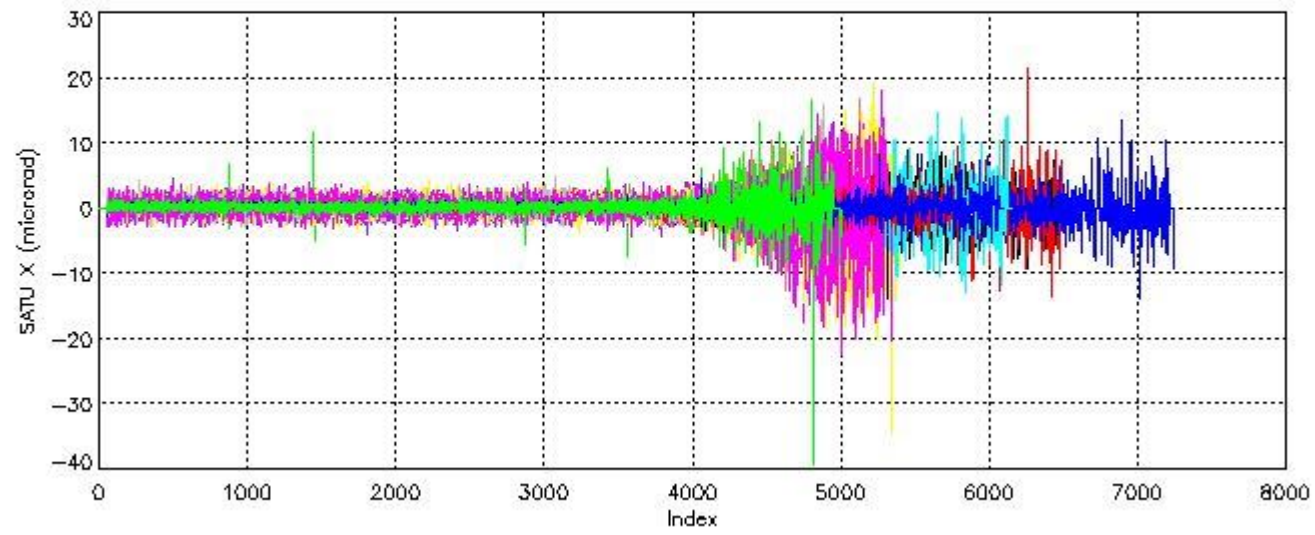


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26776	-0.45798	0.26210	-0.37017
St. deviation:	0.54547	1.9949	0.82038	2.2107
Maximum:	6.7000	15.100	6.3000	10.500
Minimum:	-3.2000	-11.200	-6.1000	-11.200

Number of data:	27150.	27150.	28800.	28800.
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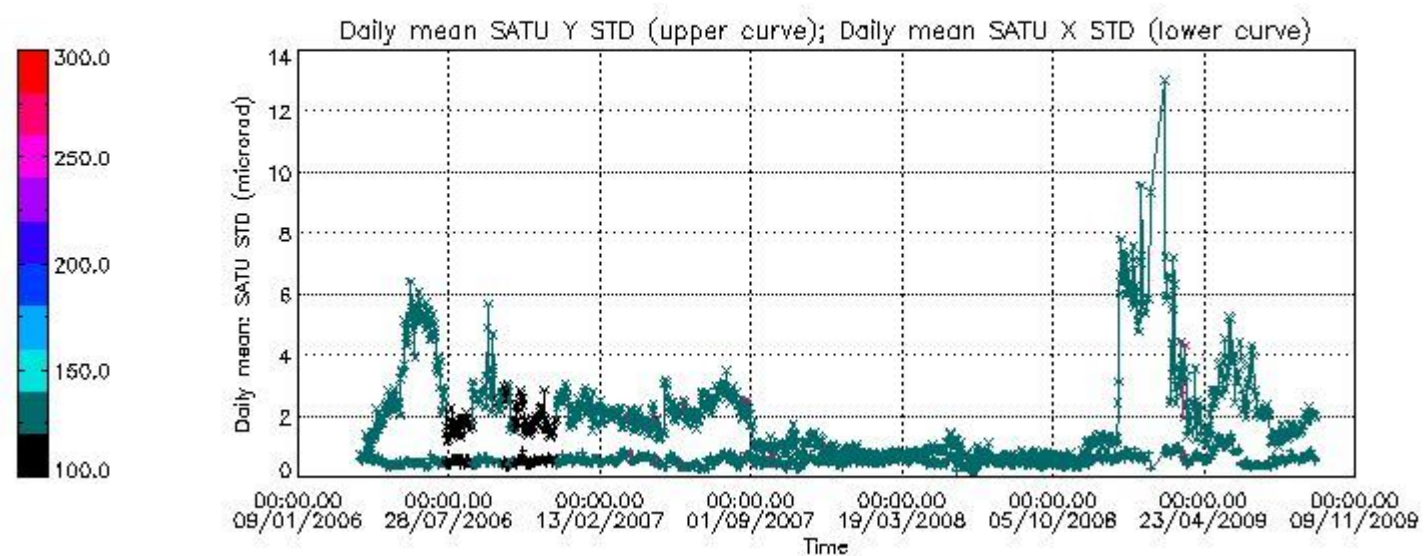
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

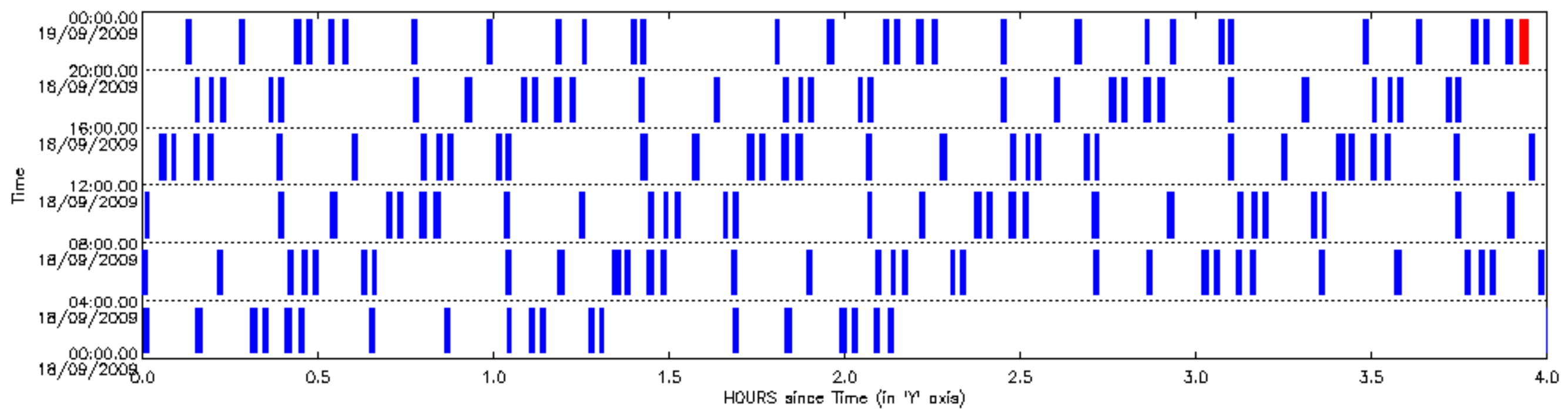
Lower curve: STD of SATU X axis

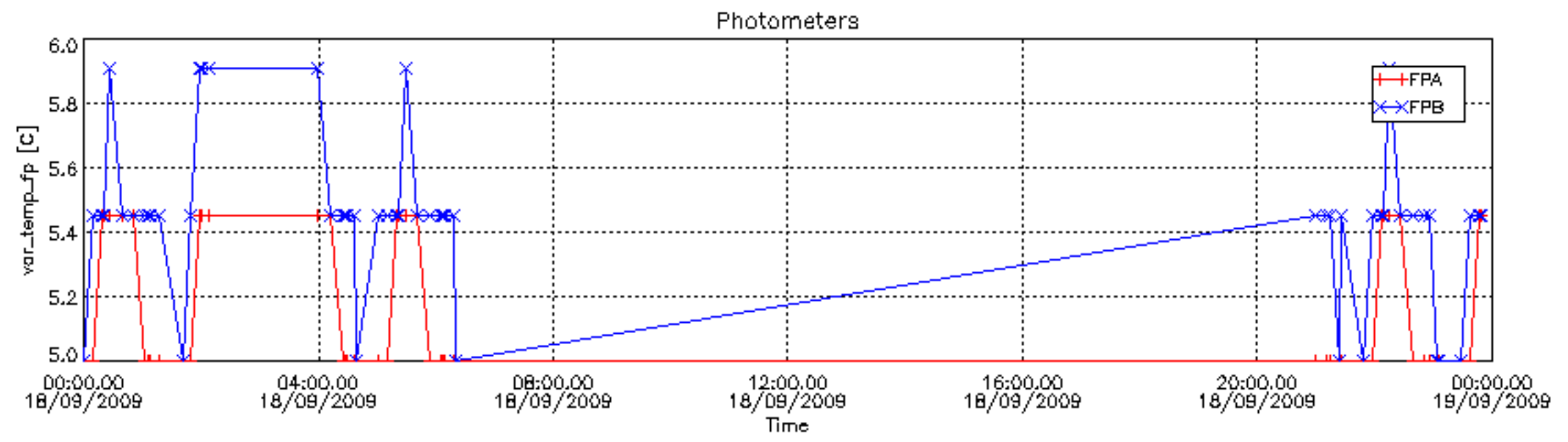
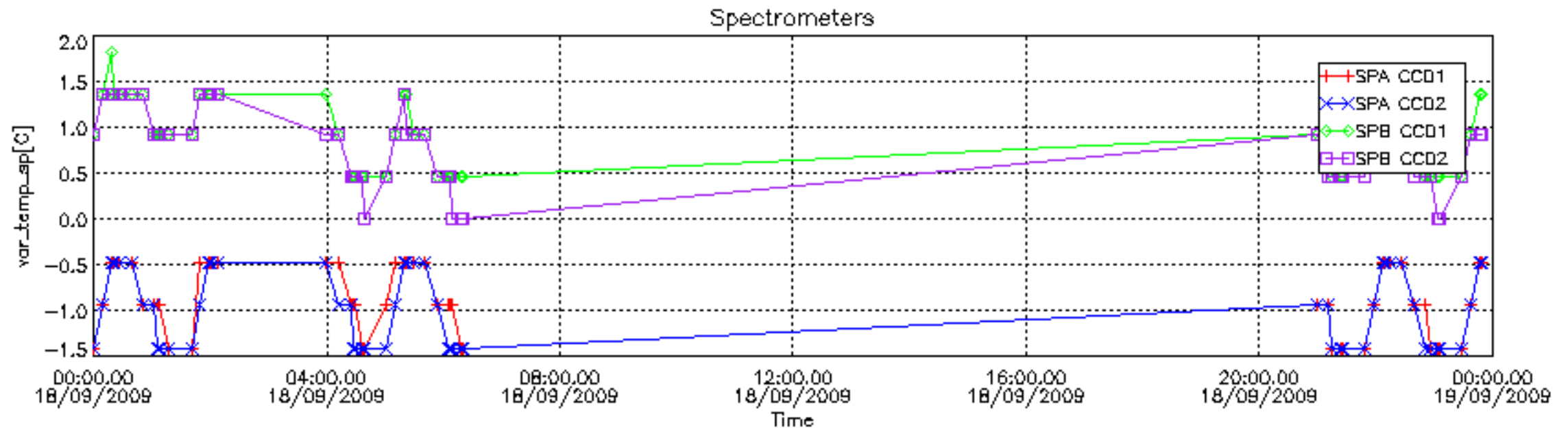


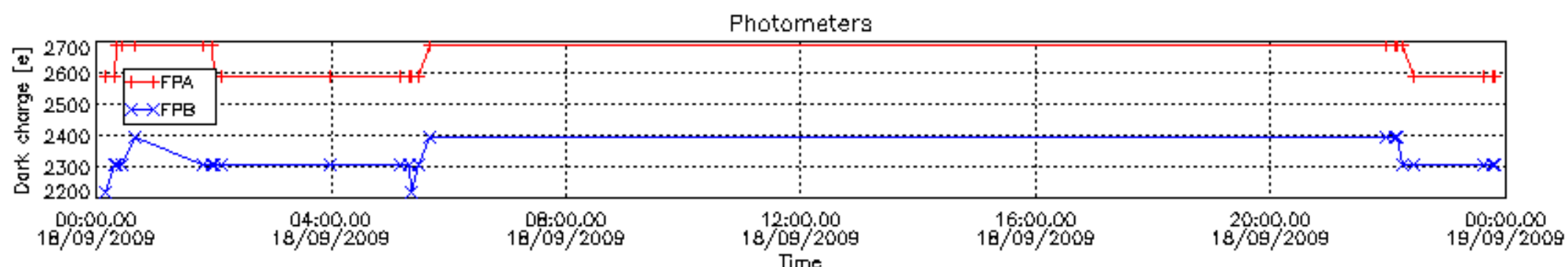
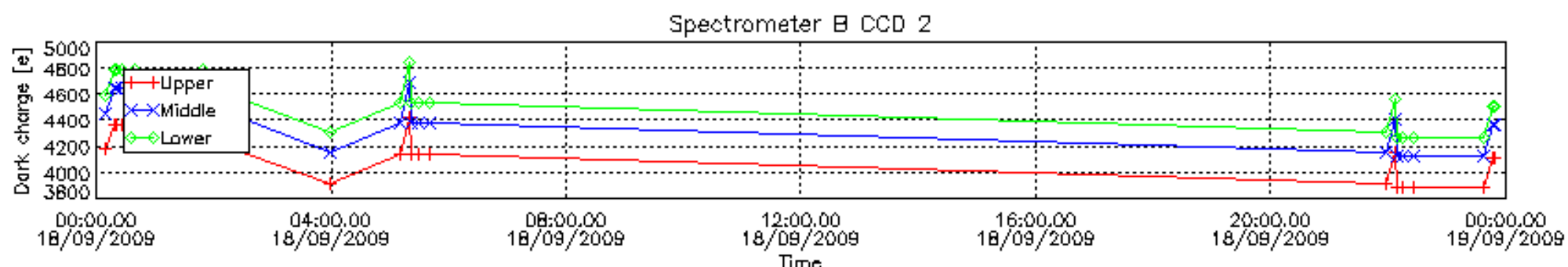
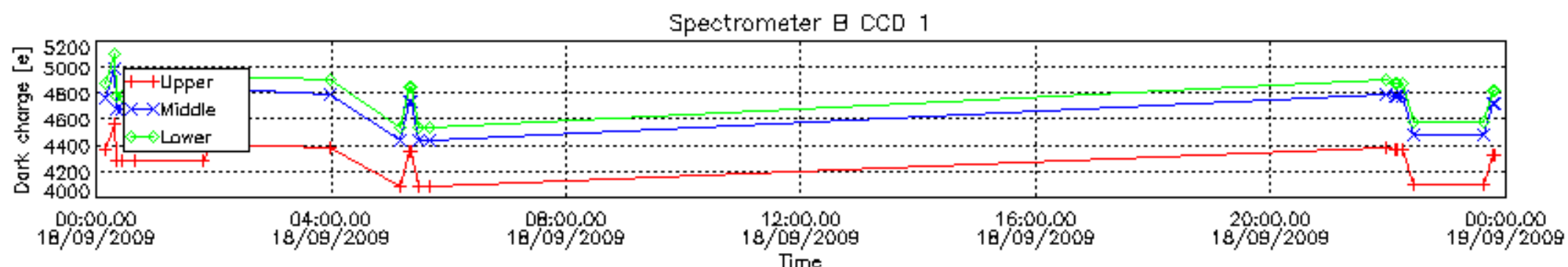
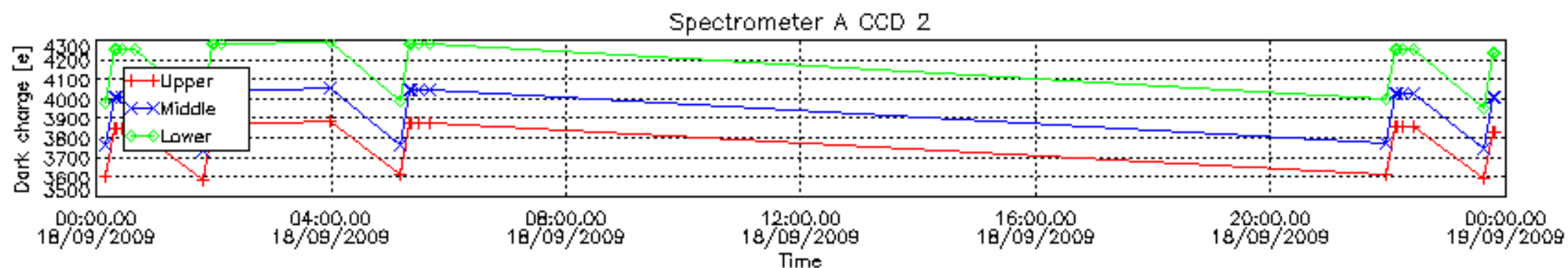
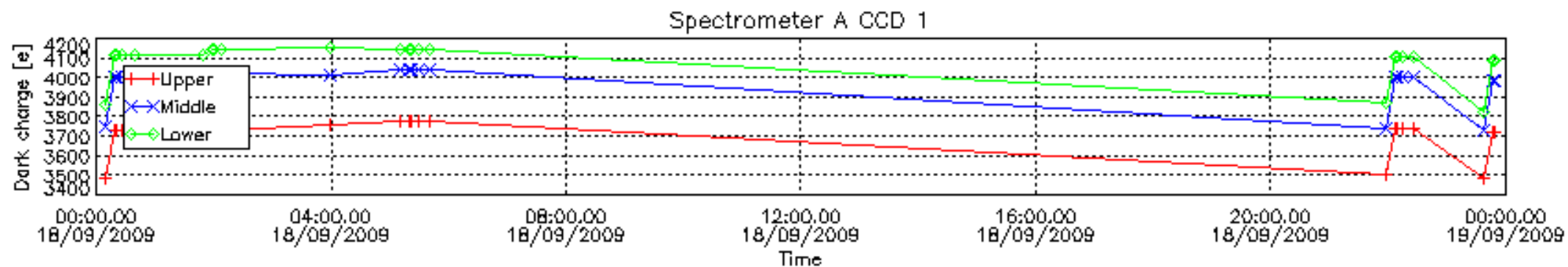
8. Auxiliary Data Files used for the production reported in section 2.4

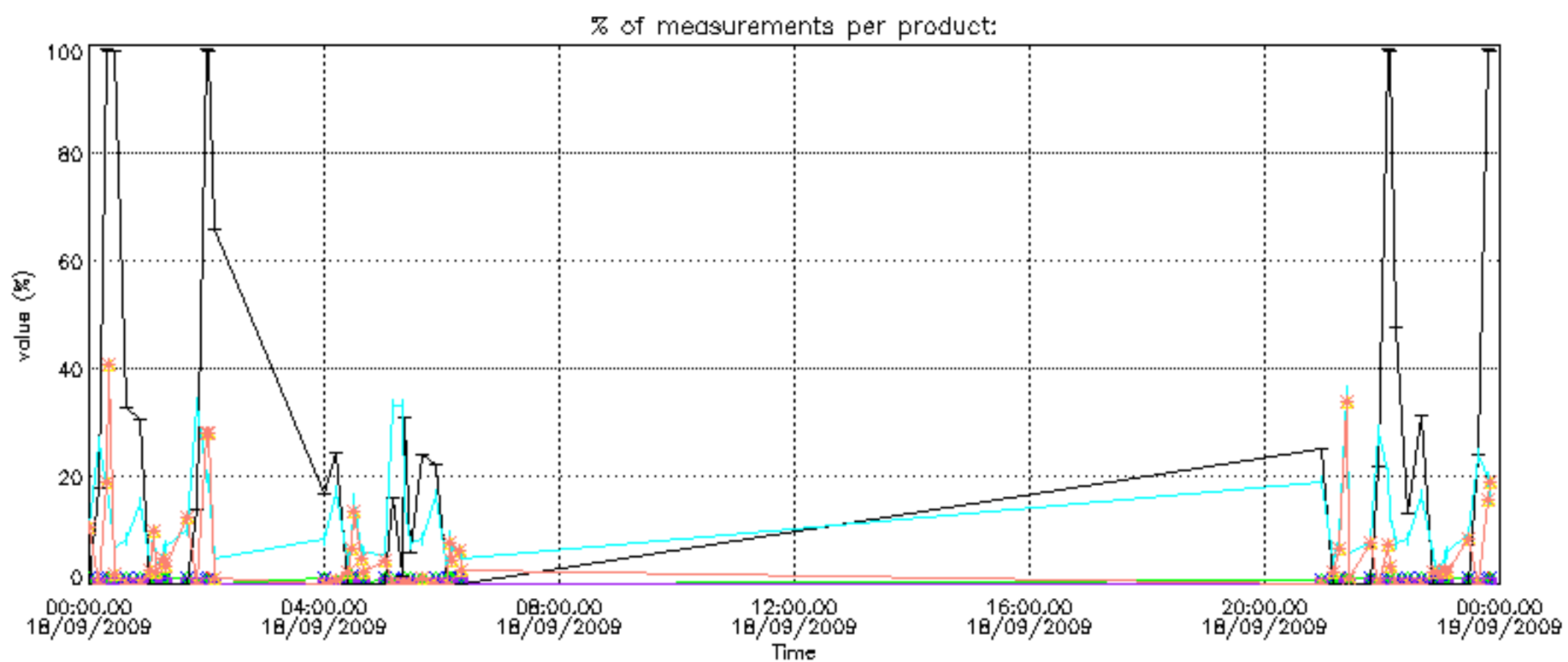
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-SEP-2009 00:00:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090915_081651_20090913_000000_20100101_000000	1	18-SEP-2009 00:00:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-SEP-2009 00:00:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-SEP-2009 00:00:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-SEP-2009 00:00:11
ECMWF_FILE	AUX_ECF_AXNECM20090917_064111_20090917_210000_20090918_090000	1	18-SEP-2009 00:00:11
ECMWF_FILE	AUX_ECF_AXNECM20090917_182111_20090918_030000_20090918_150000	18	18-SEP-2009 03:59:52
ECMWF_FILE	AUX_ECF_AXNECM20090918_064111_20090918_150000_20090919_030000	37	18-SEP-2009 20:58:46
ECMWF_FILE	AUX_ECF_AXNECM20090918_064112_20090918_210000_20090919_090000	44	18-SEP-2009 22:06:30
OPTIONAL_ECMWF_FILE	MISSING	1	18-SEP-2009 00:00:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090917_204324_000060572082_00343_39475_8781.N1	1	18-SEP-2009 00:00:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090917_222939_000057382082_00344_39476_8782.N1	3	18-SEP-2009 00:18:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090918_001036_000057382082_00345_39477_8783.N1	15	18-SEP-2009 01:59:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090918_015133_000044632082_00346_39478_8784.N1	18	18-SEP-2009 03:59:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090918_031115_000054192082_00347_39479_8785.N1	25	18-SEP-2009 05:01:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090918_204834_000038252082_00358_39490_8787.N1	37	18-SEP-2009 20:58:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090918_215738_000057382082_00358_39490_8788.N1	55	18-SEP-2009 23:47:07

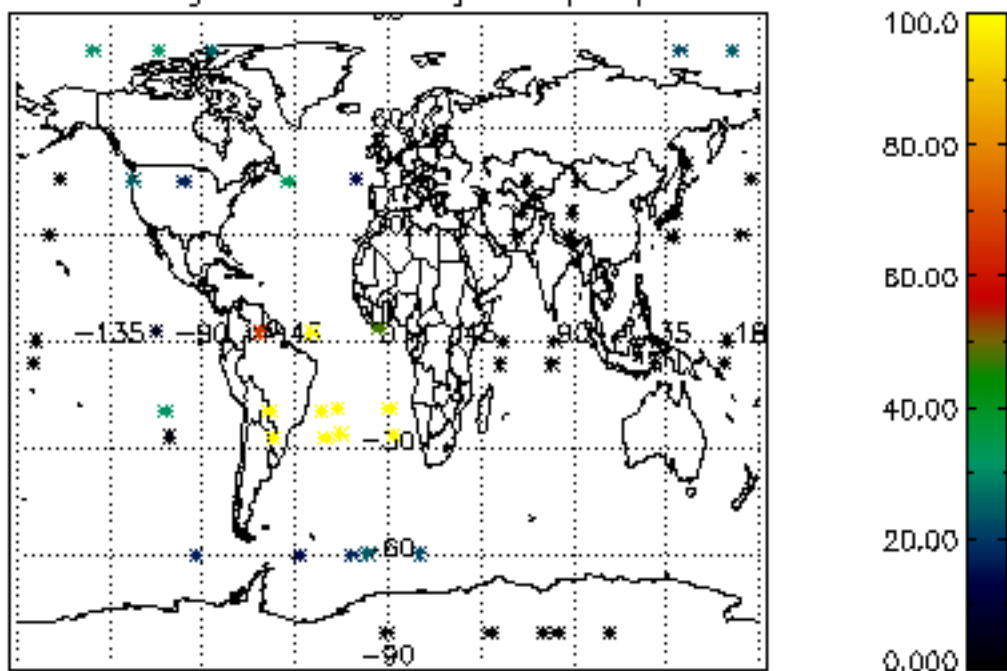




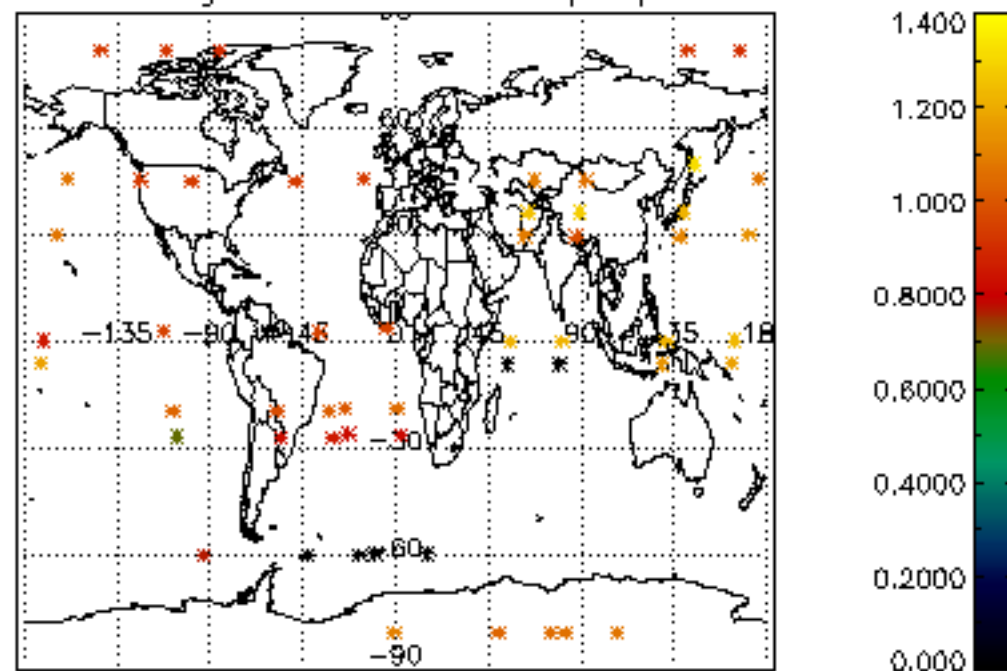




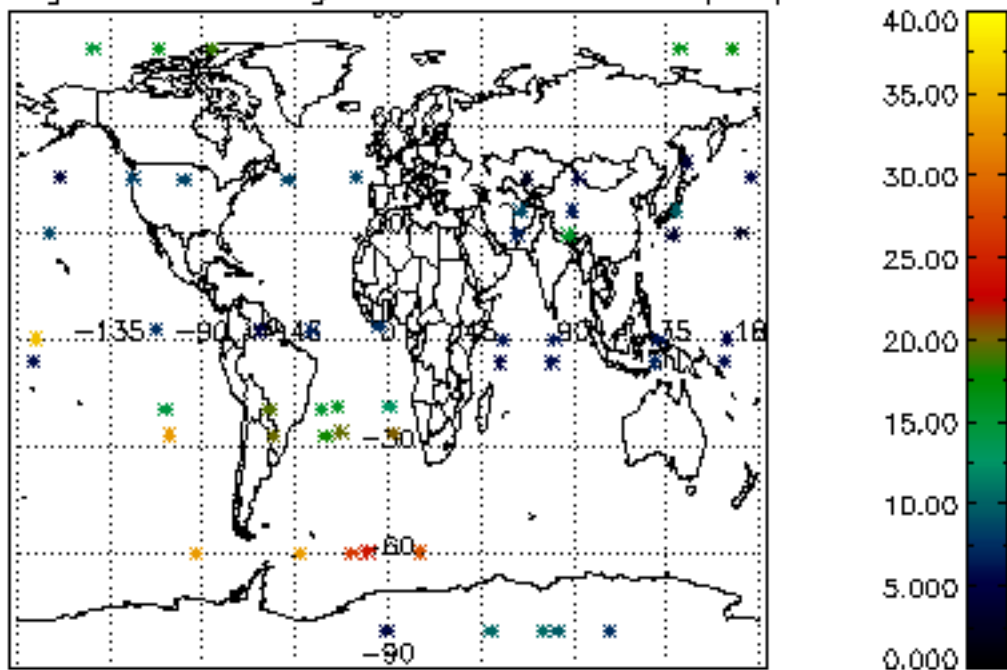
Percentage of cosmic ray hits per profile



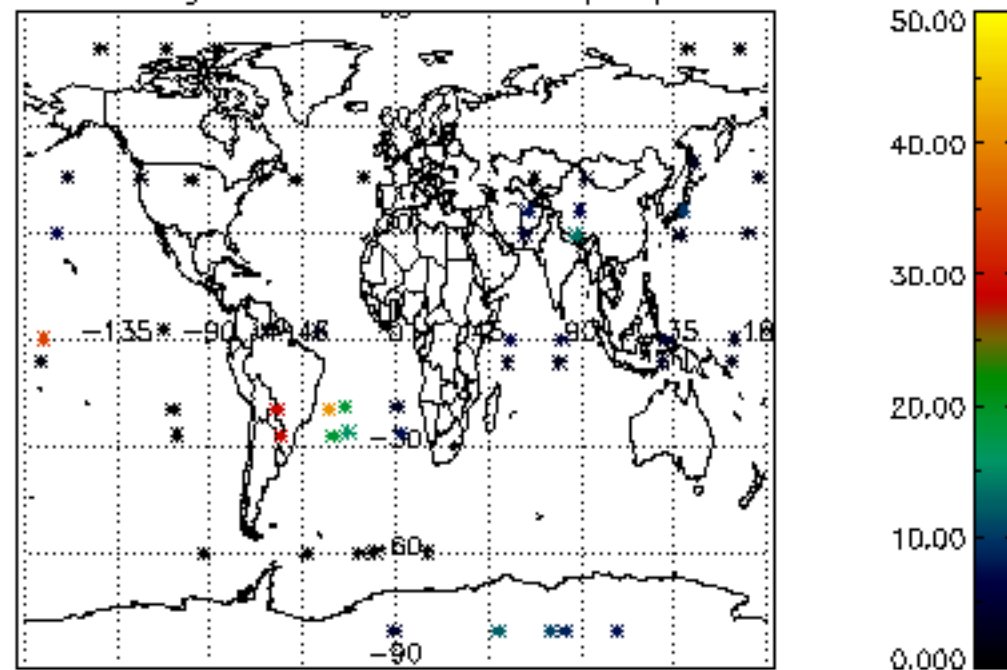
Percentage of datation errors per profile



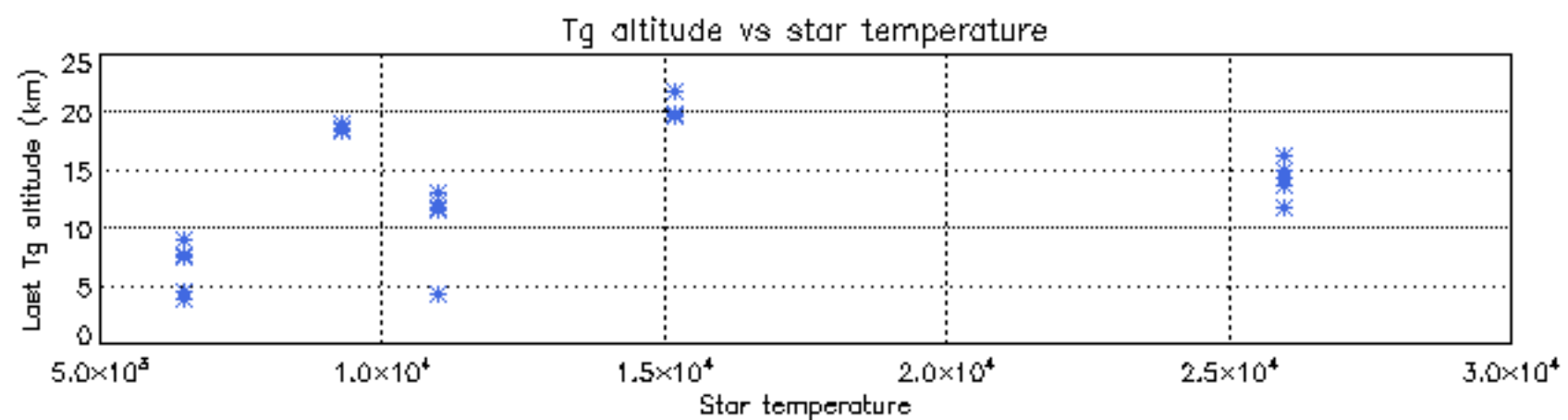
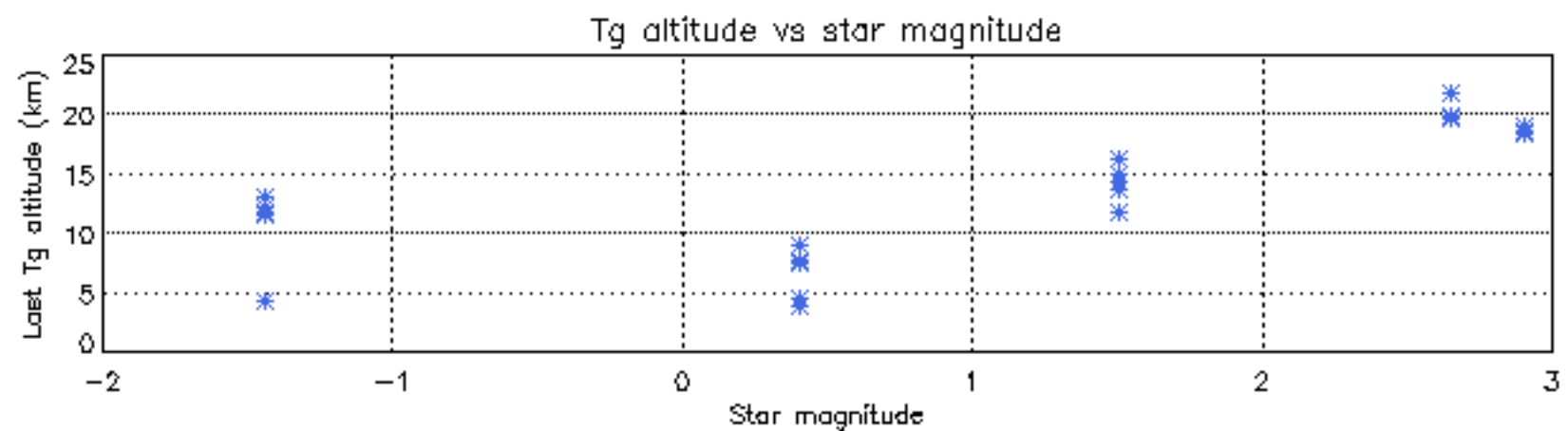
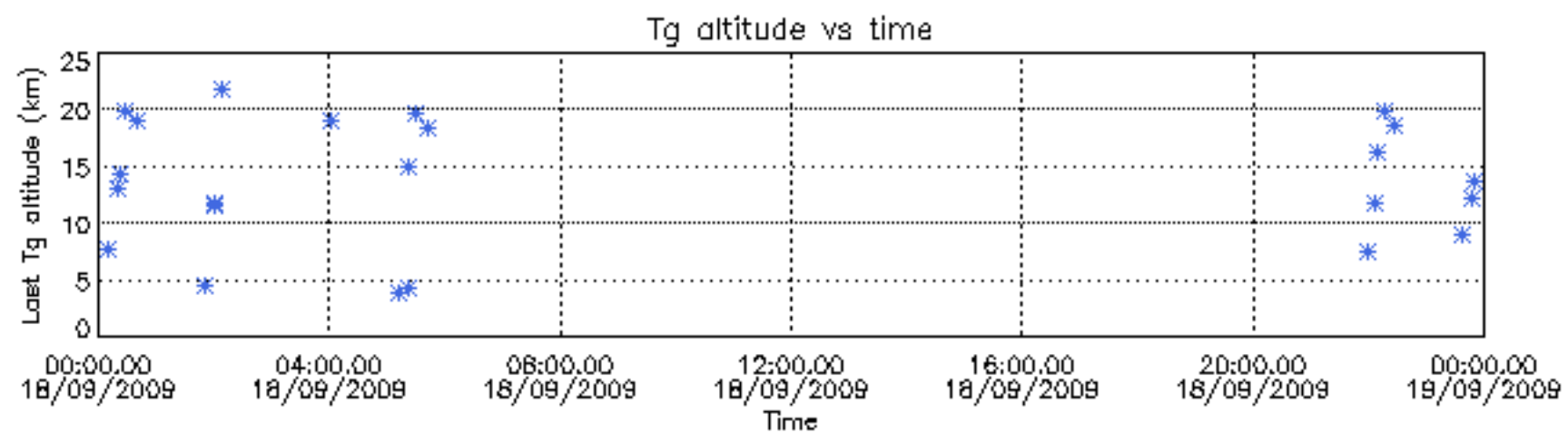
Percentage of star falling outside central band per profile



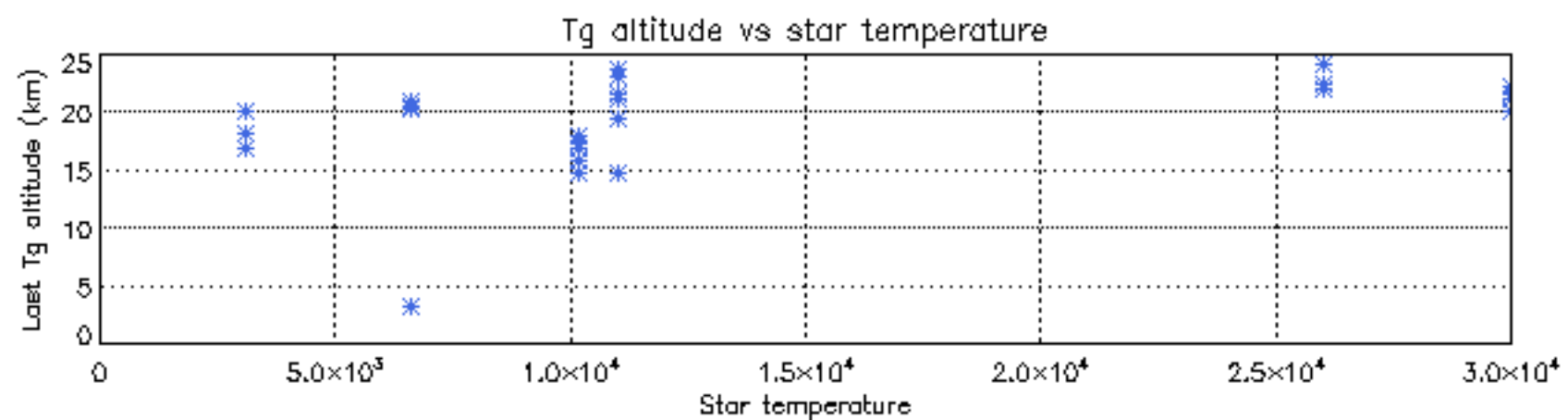
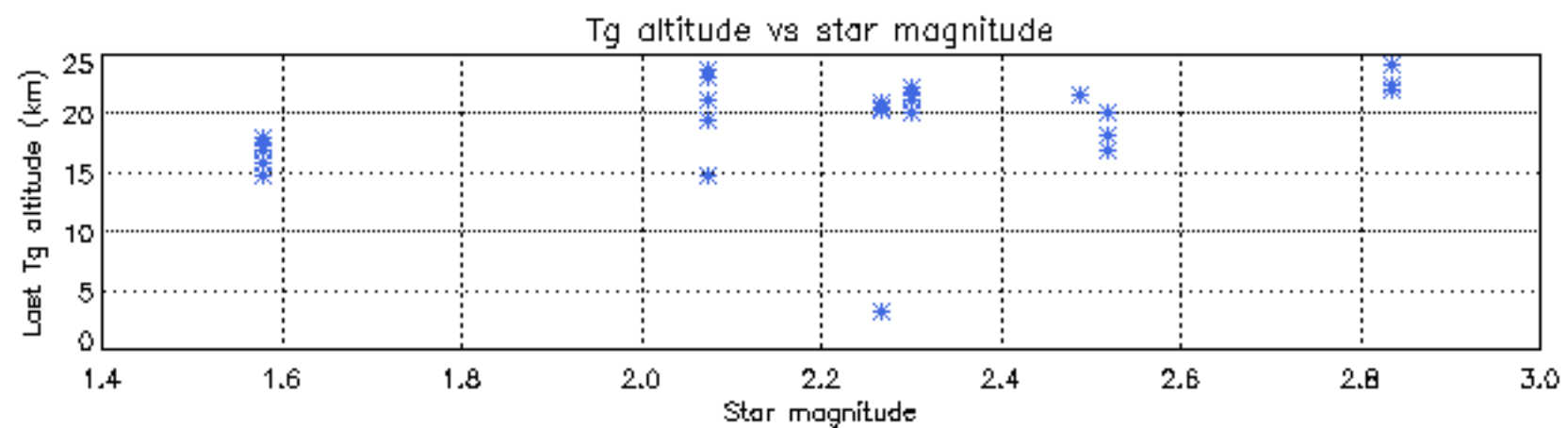
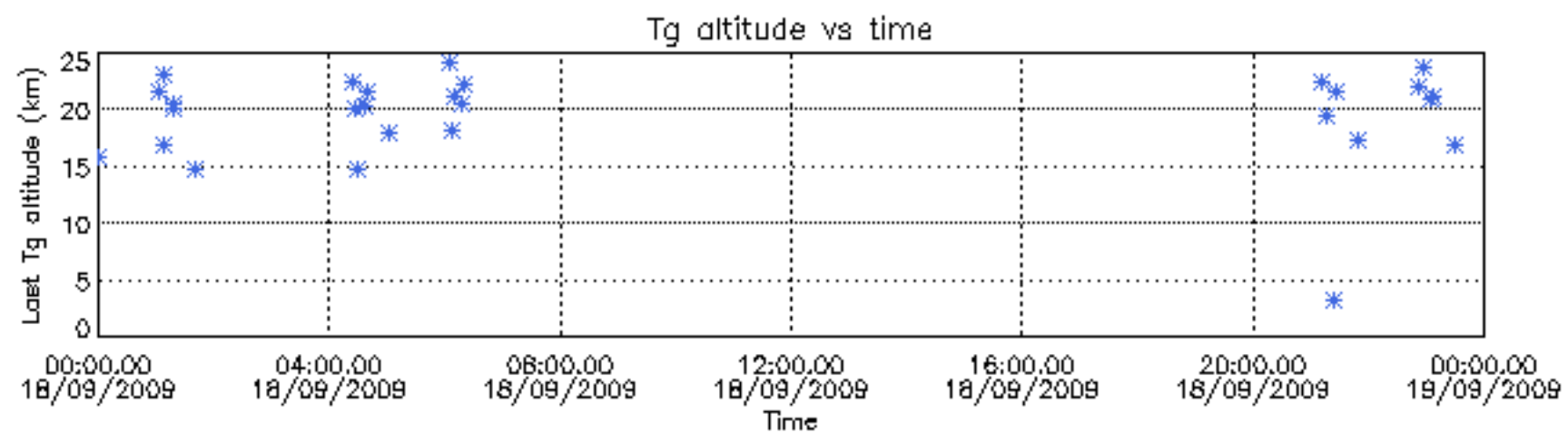
Percentage of saturation errors per profile

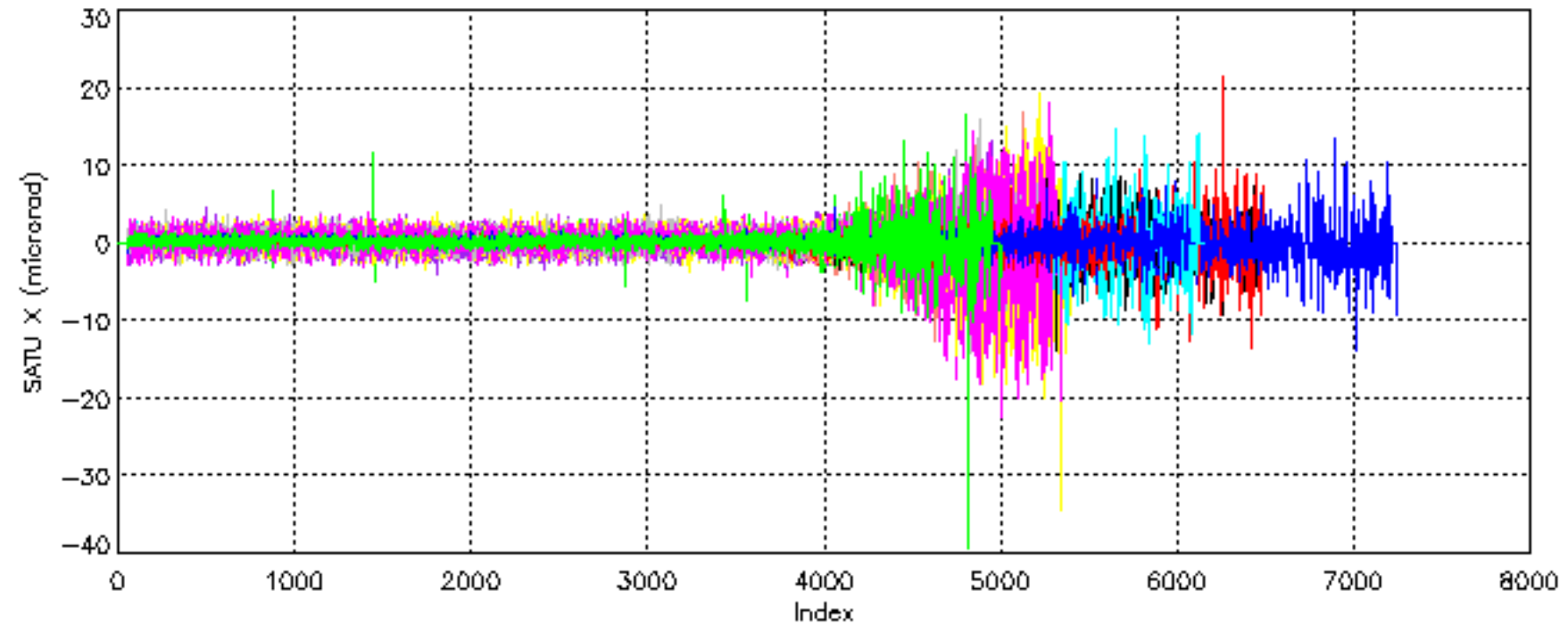


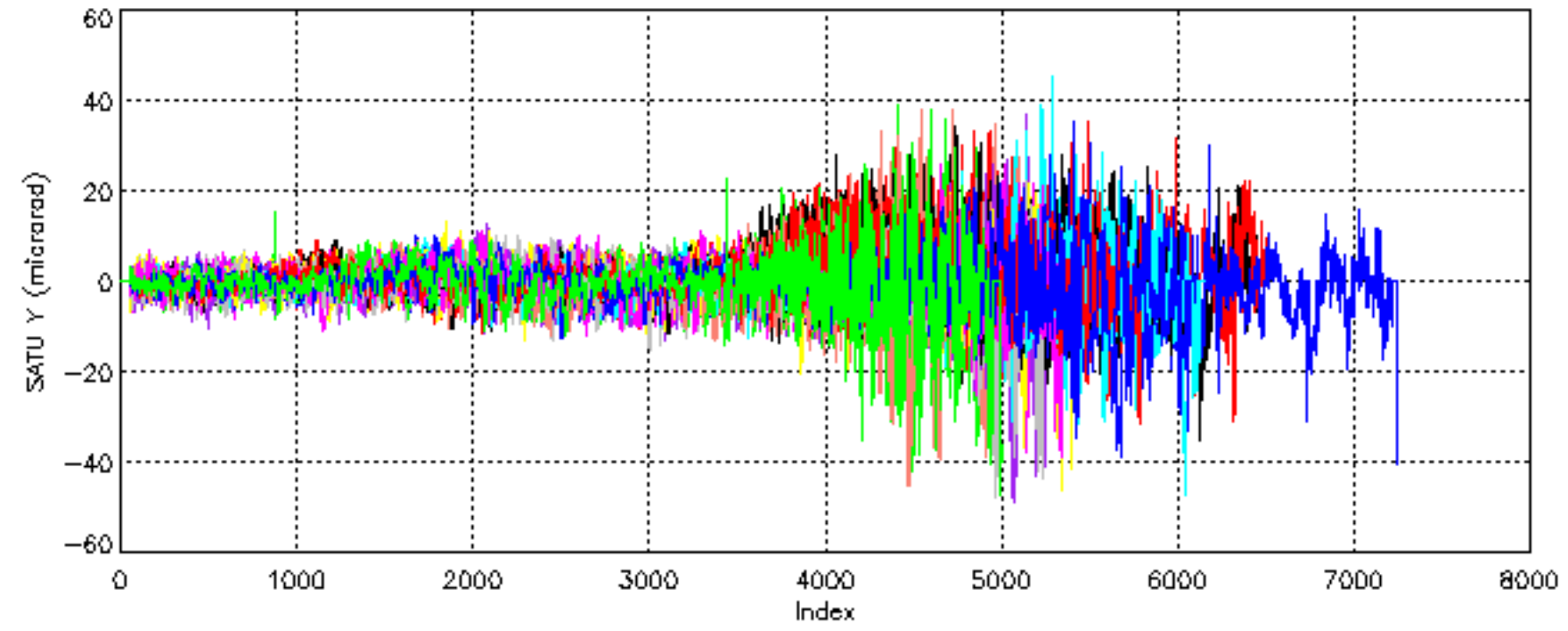
Tangent altitude at which the star is lost

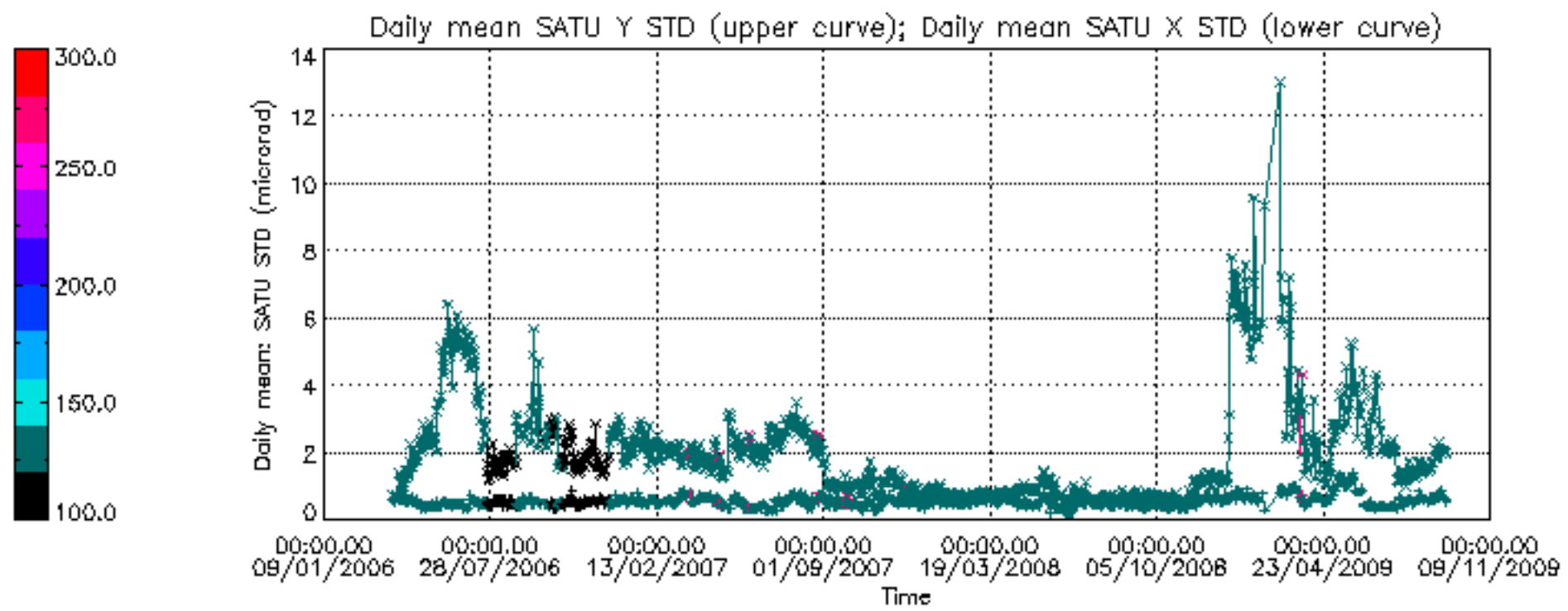


Tangent altitude at which the star is lost









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 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
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 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

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 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;39236
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 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237
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 7; -583.2; 01-SEP-2009 05:52:38; Dark ; 48.0; 47; 2Bet CMa ; 1.98; 28000;occ; 96; 0;39237
 8; -409.9; 01-SEP-2009 05:55:31; Dark ; 58.5; 101; 11Alp Lep ; 2.58; 7000;occ; 117; 0;39237
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 11; 964.2; 01-SEP-2009 06:18:25; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39238
 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238
 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238
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 2; 1332.8; 01-SEP-2009 19:49:21; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;39246
 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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5; 3136.1; 01-SEP-2009 20:19:24; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;39246
6; 3263.2; 01-SEP-2009 20:21:32; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39246
7; 4152.7; 01-SEP-2009 20:36:21; Bright; 62.5; 6; 13Alp Aur ; 0.08; 3400;occ; 125; 0;39246
8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
9; 4690.5; 01-SEP-2009 20:45:19; Dark ; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;39246
10; 4797.1; 01-SEP-2009 20:47:05; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39246
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2; -707.7; 01-SEP-2009 20:55:56; Dark ; 61.0; 33; 50Zet Ori ; 1.77; 30000;occ; 122; 0;39246
3; -576.6; 01-SEP-2009 20:58:08; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39246
4; -399.2; 01-SEP-2009 21:01:05; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39246
5; -223.7; 01-SEP-2009 21:04:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39246
6; 502.0; 01-SEP-2009 21:16:06; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;39247
7; 969.2; 01-SEP-2009 21:23:53; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39247
8; 1332.9; 01-SEP-2009 21:29:57; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39247
9; 2243.6; 01-SEP-2009 21:45:08; Bright; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;39247
10; 2495.3; 01-SEP-2009 21:49:19; Bright; 63.0; 164; 44Eta Peg ; 2.95; 5400;occ; 126; 0;39247
11; 3135.5; 01-SEP-2009 22:00:00; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39247
12; 3262.5; 01-SEP-2009 22:02:07; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39247
13; 4152.6; 01-SEP-2009 22:16:57; Bright; 60.5; 6; 13Alp Aur ; 0.08; 3400;occ; 121; 0;39247
14; 4378.3; 01-SEP-2009 22:20:43; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39247
15; 4690.8; 01-SEP-2009 22:25:55; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;39247
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2; -575.8; 01-SEP-2009 22:38:44; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;39247
3; -397.9; 01-SEP-2009 22:41:42; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39247
4; -222.5; 01-SEP-2009 22:44:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39247
5; 503.3; 01-SEP-2009 22:56:43; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39248
6; 969.8; 01-SEP-2009 23:04:30; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;39248
7; 2243.0; 01-SEP-2009 23:25:43; Bright; 59.5; 90; 54Alp Peg ; 2.49; 11000;occ; 119; 0;39248
8; 2494.9; 01-SEP-2009 23:29:55; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39248
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14; 6725.9; 13-SEP-2009 09:58:01; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39411
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13; 5997.7; 13-SEP-2009 11:26:29; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39412
14; 6726.8; 13-SEP-2009 11:38:38; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39412
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 3; 2562.4; 13-SEP-2009 12:09:49; Bright; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;39413
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 5; 3155.4; 13-SEP-2009 12:19:42; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39413
 6; 4174.8; 13-SEP-2009 12:36:42; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39413
 7; 4476.9; 13-SEP-2009 12:41:44; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;39413
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14; 6728.0; 13-SEP-2009 13:19:15; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39413
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 3; 2421.4; 13-SEP-2009 13:48:04; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39414
 4; 2561.8; 13-SEP-2009 13:50:24; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39414
 5; 3155.0; 13-SEP-2009 14:00:18; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39414
 6; 4174.7; 13-SEP-2009 14:17:17; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;39414
 7; 4476.9; 13-SEP-2009 14:22:20; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39414
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 3; 2421.1; 13-SEP-2009 15:28:40; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;39415
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 7; 4174.7; 13-SEP-2009 15:57:53; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39415
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11; 5516.6; 13-SEP-2009 16:20:15; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;39415
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3;	2420.7;	13-SEP-2009	17:09:15;	Bright;	;	42.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	85;	0;	39416
4;	2560.1;	13-SEP-2009	17:11:35;	Bright;	;	49.0;	58;	21Alp	And	;	2.07;	11000;	occ;	98;	0;	39416
5;	3042.4;	13-SEP-2009	17:19:37;	Bright;	;	42.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	84;	0;	39416
6;	3153.8;	13-SEP-2009	17:21:28;	Bright;	;	43.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	87;	0;	39416
7;	4174.3;	13-SEP-2009	17:38:29;	Bright;	;	52.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	105;	0;	39416
8;	4477.3;	13-SEP-2009	17:43:32;	Bright;	;	43.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	86;	0;	39416
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13;	5656.9;	13-SEP-2009	18:03:11;	Dark	;	47.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	94;	0;	39416
14;	5876.8;	13-SEP-2009	18:06:51;	Dark	;	59.5;	0;	;	;	;	0.00;	0;	occ;	119;	0;	39416
15;	6002.5;	13-SEP-2009	18:08:57;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39416
16;	6731.3;	13-SEP-2009	18:21:06;	Dark	;	53.5;	157;	The1Eri	;	;	2.91;	9300;	occ;	107;	0;	39416

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3;	2420.4;	13-SEP-2009	18:49:51;	Bright;	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39417
4;	2559.5;	13-SEP-2009	18:52:10;	Bright;	;	47.5;	58;	21Alp	And	;	2.07;	11000;	occ;	95;	0;	39417
5;	3041.8;	13-SEP-2009	19:00:12;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39417
6;	3153.0;	13-SEP-2009	19:02:03;	Bright;	;	44.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	88;	0;	39417
7;	4173.9;	13-SEP-2009	19:19:04;	Bright;	;	63.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	126;	0;	39417
8;	4477.4;	13-SEP-2009	19:24:08;	Bright;	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39417
9;	4664.3;	13-SEP-2009	19:27:15;	Dark	;	59.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	119;	0;	39417
10;	4885.5;	13-SEP-2009	19:30:56;	Dark	;	56.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	112;	0;	39417
11;	4987.2;	13-SEP-2009	19:32:38;	Dark	;	50.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	101;	0;	39417
12;	5518.5;	13-SEP-2009	19:41:29;	Dark	;	55.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	111;	0;	39417
13;	5657.7;	13-SEP-2009	19:43:48;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	39417
14;	5877.6;	13-SEP-2009	19:47:28;	Dark	;	59.5;	0;	;	;	;	0.00;	0;	occ;	119;	0;	39417
15;	6003.9;	13-SEP-2009	19:49:34;	Dark	;	49.5;	108;	Alp	Col	;	2.65;	15200;	occ;	99;	0;	39417
16;	6732.1;	13-SEP-2009	20:01:43;	Dark	;	55.0;	157;	The1Eri	;	;	2.91;	9300;	occ;	110;	0;	39417

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1;	-514.4;	14-SEP-2009	00:43:20;	Dark	;	57.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	114;	0;	39420
2;	-375.8;	14-SEP-2009	00:45:38;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	39420
3;	-155.7;	14-SEP-2009	00:49:18;	Dark	;	59.5;	0;	;	;	;	0.00;	0;	occ;	119;	0;	39420
4;	-28.5;	14-SEP-2009	00:51:26;	Dark	;	51.0;	108;	Alp	Col	;	2.65;	15200;	occ;	102;	0;	39420
5;	699.4;	14-SEP-2009	01:03:33;	Dark	;	55.5;	157;	The1Eri	;	;	2.91;	9300;	occ;	111;	0;	39421
6;	1523.3;	14-SEP-2009	01:17:17;	Dark	;	58.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	117;	0;	39421
7;	2184.8;	14-SEP-2009	01:28:19;	Bright;	;	58.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	116;	0;	39421
8;	2419.2;	14-SEP-2009	01:32:13;	Bright;	;	40.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	80;	0;	39421
9;	2556.3;	14-SEP-2009	01:34:30;	Bright;	;	49.5;	58;	21Alp	And	;	2.07;	11000;	occ;	99;	0;	39421
10;	3040.1;	14-SEP-2009	01:42:34;	Bright;	;	37.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	74;	0;	39421
11;	3150.7;	14-SEP-2009	01:44:25;	Bright;	;	43.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	87;	0;	39421
12;	4172.8;	14-SEP-2009	02:01:27;	Bright;	;	52.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	104;	0;	39421
13;	4478.1;	14-SEP-2009	02:06:32;	Bright;	;	44.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	89;	0;	39421
14;	4665.4;	14-SEP-2009	02:09:39;	Dark	;	63.0;	170;	27Eps	Gem	;	3.00;	9700;	occ;	126;	0;	39421
15;	4888.2;	14-SEP-2009	02:13:22;	Dark	;	40.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	80;	0;	39421
16;	4989.0;	14-SEP-2009	02:15:03;	Dark	;	58.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	116;	0;	39421

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1;	-513.6;	14-SEP-2009	02:23:56;	Dark	;	58.5;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	117;	0;	39421
2;	-375.1;	14-SEP-2009	02:26:15;	Dark	;	44.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	89;	0;	39421
3;	-154.8;	14-SEP-2009	02:29:55;	Dark	;	59.5;	0;	;	;	;	0.00;	0;	occ;	119;	0;	39421
4;	-27.3;	14-SEP-2009	02:32:03;	Dark	;	54.5;	108;	Alp	Col	;	2.65;	15200;	occ;	109;	0;	39421
5;	700.4;	14-SEP-2009	02:44:10;	Dark	;	54.0;	157;	The1Eri	;	;	2.91;	9300;	occ;	108;	0;	39422
6;	1523.6;	14-SEP-2009	02:57:53;	Dark	;	58.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	116;	0;	39422
7;	2184.5;	14-SEP-2009	03:08:54;	Bright;	;	41.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	82;	0;	39422
8;	2418.8;	14-SEP-2009	03:12:49;	Bright;	;	42.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	84;	0;	39422
9;	2555.5;	14-SEP-2009	03:15:05;	Bright;	;	72.0;	58;	21Alp	And	;	2.07;	11000;	occ;	144;	0;	39422
10;	3039.6;	14-SEP-2009	03:23:09;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	39422
11;	3150.2;	14-SEP-2009	03:25:00;	Bright;	;	42.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	85;	0;	39422

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1;	-1863.4;	14-SEP-2009	03:42:02;	Bright;	;	47.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	94;	0;	39422
2;	-1557.9;	14-SEP-2009	03:47:08;	Bright;	;	61.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	122;	0;	39422
3;	-1370.3;	14-SEP-2009	03:50:16;	Dark	;	60.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	121;	0;	39422
4;	-1147.2;	14-SEP-2009	03:53:59;	Dark	;	32.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	64;	0;	39422

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5; -1046.4; 14-SEP-2009 03:55:39; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39422
6; -512.6; 14-SEP-2009 04:04:33; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;39422
7; -374.4; 14-SEP-2009 04:06:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39422
8; -153.8; 14-SEP-2009 04:10:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39422
9; -26.2; 14-SEP-2009 04:12:40; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;39422
10; 701.5; 14-SEP-2009 04:24:47; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39423
11; 1523.9; 14-SEP-2009 04:38:30; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;39423
12; 2184.0; 14-SEP-2009 04:49:30; Bright; 58.0; 90; 54Alp Peg ; 2.49; 11000;occ; 116; 0;39423
13; 2418.6; 14-SEP-2009 04:53:24; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;39423
14; 2554.9; 14-SEP-2009 04:55:41; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39423
15; 3038.9; 14-SEP-2009 05:03:45; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39423
16; 3149.5; 14-SEP-2009 05:05:35; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39423
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1; -1863.7; 14-SEP-2009 05:22:38; Bright; 47.0; 42; 34Bet Aur ; 1.90; 10200;occ; 94; 0;39423
2; -1557.7; 14-SEP-2009 05:27:44; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;39423
3; -1369.8; 14-SEP-2009 05:30:52; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39423
4; -1146.6; 14-SEP-2009 05:34:35; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39423
5; -1046.1; 14-SEP-2009 05:36:16; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;39423
6; -511.6; 14-SEP-2009 05:45:10; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;39423
7; -373.7; 14-SEP-2009 05:47:28; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39423
8; -152.9; 14-SEP-2009 05:51:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39423
9; -24.8; 14-SEP-2009 05:53:17; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39423
10; 702.3; 14-SEP-2009 06:05:24; Dark ; 56.5; 157; The1Eri ; 2.91; 9300;occ; 113; 0;39424
11; 1523.9; 14-SEP-2009 06:19:06; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39424
12; 2183.9; 14-SEP-2009 06:30:06; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39424
13; 2284.9; 14-SEP-2009 06:31:47; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39424
14; 2418.3; 14-SEP-2009 06:34:00; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;39424
15; 2554.1; 14-SEP-2009 06:36:16; Bright; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;39424
16; 3038.5; 14-SEP-2009 06:44:20; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39424
17; 3148.9; 14-SEP-2009 06:46:11; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39424
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2; 2182.4; 14-SEP-2009 19:54:52; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;39432
3; 2279.8; 14-SEP-2009 19:56:29; Bright; 56.0; 140; 88Gam Peg ; 2.83; 26000;occ; 112; 0;39432
4; 2416.0; 14-SEP-2009 19:58:45; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39432
5; 2548.0; 14-SEP-2009 20:00:57; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39432
6; 3034.7; 14-SEP-2009 20:09:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39432
7; 3144.4; 14-SEP-2009 20:10:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39432
8; 4479.4; 14-SEP-2009 20:33:09; Bright; 62.0; 24; 66Alp Gem ; 1.58; 10200;occ; 124; 0;39432
9; 4669.2; 14-SEP-2009 20:36:18; Dark ; 66.0; 170; 27Eps Gem ; 3.00; 9700;occ; 132; 0;39432
10; 4994.9; 14-SEP-2009 20:41:44; Dark ; 56.0; 8; 10Alp CMI ; 0.40; 6500;occ; 112; 0;39432
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2; -366.3; 14-SEP-2009 20:52:59; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;39432
3; -144.8; 14-SEP-2009 20:56:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39432
4; -14.1; 14-SEP-2009 20:58:51; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;39432
5; 711.7; 14-SEP-2009 21:10:57; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39433
6; 1525.1; 14-SEP-2009 21:24:30; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39433
7; 2182.2; 14-SEP-2009 21:35:27; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;39433
8; 2279.0; 14-SEP-2009 21:37:04; Bright; 50.0; 140; 88Gam Peg ; 2.83; 26000;occ; 100; 0;39433
9; 2415.6; 14-SEP-2009 21:39:21; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;39433
10; 2547.0; 14-SEP-2009 21:41:32; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39433
11; 3034.3; 14-SEP-2009 21:49:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39433
12; 3143.9; 14-SEP-2009 21:51:29; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39433
13; 4479.3; 14-SEP-2009 22:13:44; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;39433
14; 4669.5; 14-SEP-2009 22:16:55; Dark ; 64.5; 170; 27Eps Gem ; 3.00; 9700;occ; 129; 0;39433
15; 4995.1; 14-SEP-2009 22:22:20; Dark ; 61.0; 8; 10Alp CMI ; 0.40; 6500;occ; 122; 0;39433
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2; -365.4; 14-SEP-2009 22:33:36; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;39433
3; -143.9; 14-SEP-2009 22:37:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39433
4; -13.0; 14-SEP-2009 22:39:28; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;39433
5; 712.9; 14-SEP-2009 22:51:34; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39434
6; 1525.1; 14-SEP-2009 23:05:06; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;39434
7; 2181.9; 14-SEP-2009 23:16:03; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;39434
8; 2278.3; 14-SEP-2009 23:17:39; Bright; 49.5; 140; 88Gam Peg ; 2.83; 26000;occ; 99; 0;39434
9; 2415.5; 14-SEP-2009 23:19:57; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;39434
10; 2546.5; 14-SEP-2009 23:22:08; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39434

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12; 3143.1; 14-SEP-2009 23:32:04; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39434
13; 4479.6; 14-SEP-2009 23:54:21; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39434
14; 4669.9; 14-SEP-2009 23:57:31; Dark ; 65.0; 170; 27Eps Gem ; 3.00; 9700;occ; 130; 0;39434
15; 4995.6; 15-SEP-2009 00:02:57; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;39434
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 2;-1557.7; 14-SEP-2009 07:08:20; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;39424
 3;-1369.5; 14-SEP-2009 07:11:28; Dark ; 61.5; 170; 27Eps Gem ; 3.00; 9700;occ; 123; 0;39424
 4;-1045.5; 14-SEP-2009 07:16:52; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;39424
 5; -510.6; 14-SEP-2009 07:25:47; Dark ; 54.5; 1; 9Alp CMA ; -1.44; 11000;occ; 109; 0;39424
 6; -372.6; 14-SEP-2009 07:28:05; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;39424
 7; -152.0; 14-SEP-2009 07:31:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39424
 8; -23.9; 14-SEP-2009 07:33:54; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;39424
 9; 703.5; 14-SEP-2009 07:46:01; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39425
10; 1524.0; 14-SEP-2009 07:59:42; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39425
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 2; 2284.2; 14-SEP-2009 08:12:22; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;39425
 3; 2417.9; 14-SEP-2009 08:14:36; Bright; 42.5; 93; 53Bet Peg ; 2.52; 3100;occ; 85; 0;39425
 4; 2553.3; 14-SEP-2009 08:16:51; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;39425
 5; 3038.2; 14-SEP-2009 08:24:56; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39425
 6; 3148.3; 14-SEP-2009 08:26:46; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;39425
 7; 4171.7; 14-SEP-2009 08:43:49; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;39425
 8; 4478.4; 14-SEP-2009 08:48:56; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39425
 9; 4666.8; 14-SEP-2009 08:52:05; Dark ; 58.5; 170; 27Eps Gem ; 3.00; 9700;occ; 117; 0;39425
10; 4991.0; 14-SEP-2009 08:57:29; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;39425
11; 5526.4; 14-SEP-2009 09:06:24; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;39425
12; 5664.2; 14-SEP-2009 09:08:42; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;39425
13; 5884.7; 14-SEP-2009 09:12:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39425
14; 6013.3; 14-SEP-2009 09:14:31; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39425
15; 6740.7; 14-SEP-2009 09:26:39; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39425
16; 7560.0; 14-SEP-2009 09:40:18; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;39425
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 2; 2283.6; 14-SEP-2009 09:52:57; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;39426
 3; 2417.9; 14-SEP-2009 09:55:12; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;39426
 4; 2552.5; 14-SEP-2009 09:57:26; Bright; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;39426
 5; 3037.7; 14-SEP-2009 10:05:31; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39426
 6; 3147.8; 14-SEP-2009 10:07:21; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;39426
 7; 4171.4; 14-SEP-2009 10:24:25; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;39426
 8; 4478.6; 14-SEP-2009 10:29:32; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;39426
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 14; 5889.4; 14-SEP-2009 17:35:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39430
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5; 1533.5; 19-SEP-2009 00:19:58; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;39492
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8; 3008.3; 19-SEP-2009 00:44:32; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39492
9; 3110.8; 19-SEP-2009 00:46:15; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;39492
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 9; 2991.0; 22-SEP-2009 02:30:35; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;39536
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7; 861.6; 26-SEP-2009 04:50:25; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;39595
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