

GOMOS Daily Report 14-MAY-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	17MAY2009 04:38:33
Data source version	GOMOS/5.00
Start time of products	14MAY2009 00:32:33
Stop time of products	14MAY2009 20:41:31
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

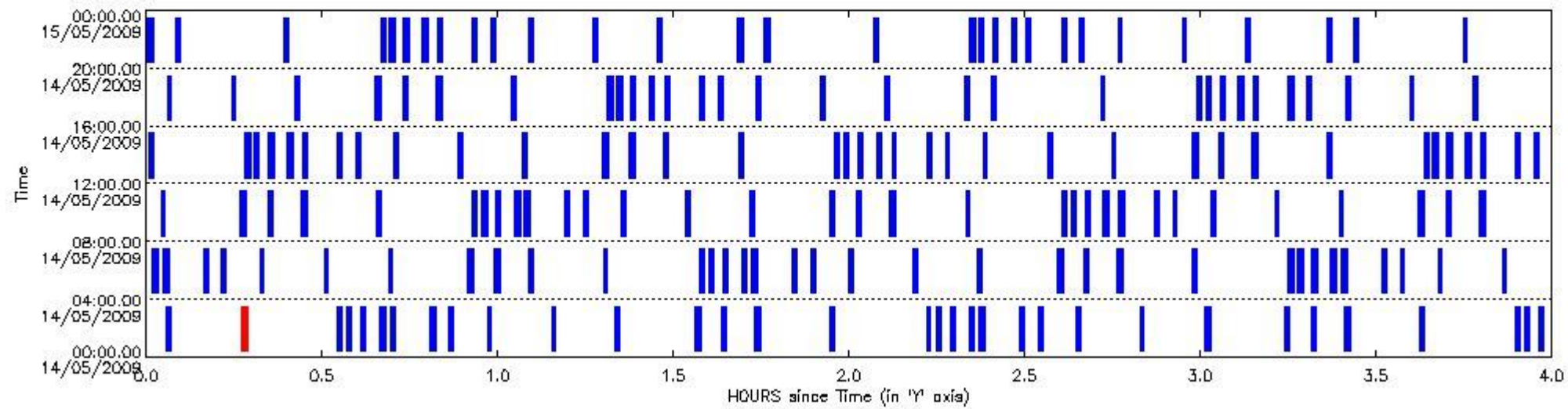
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

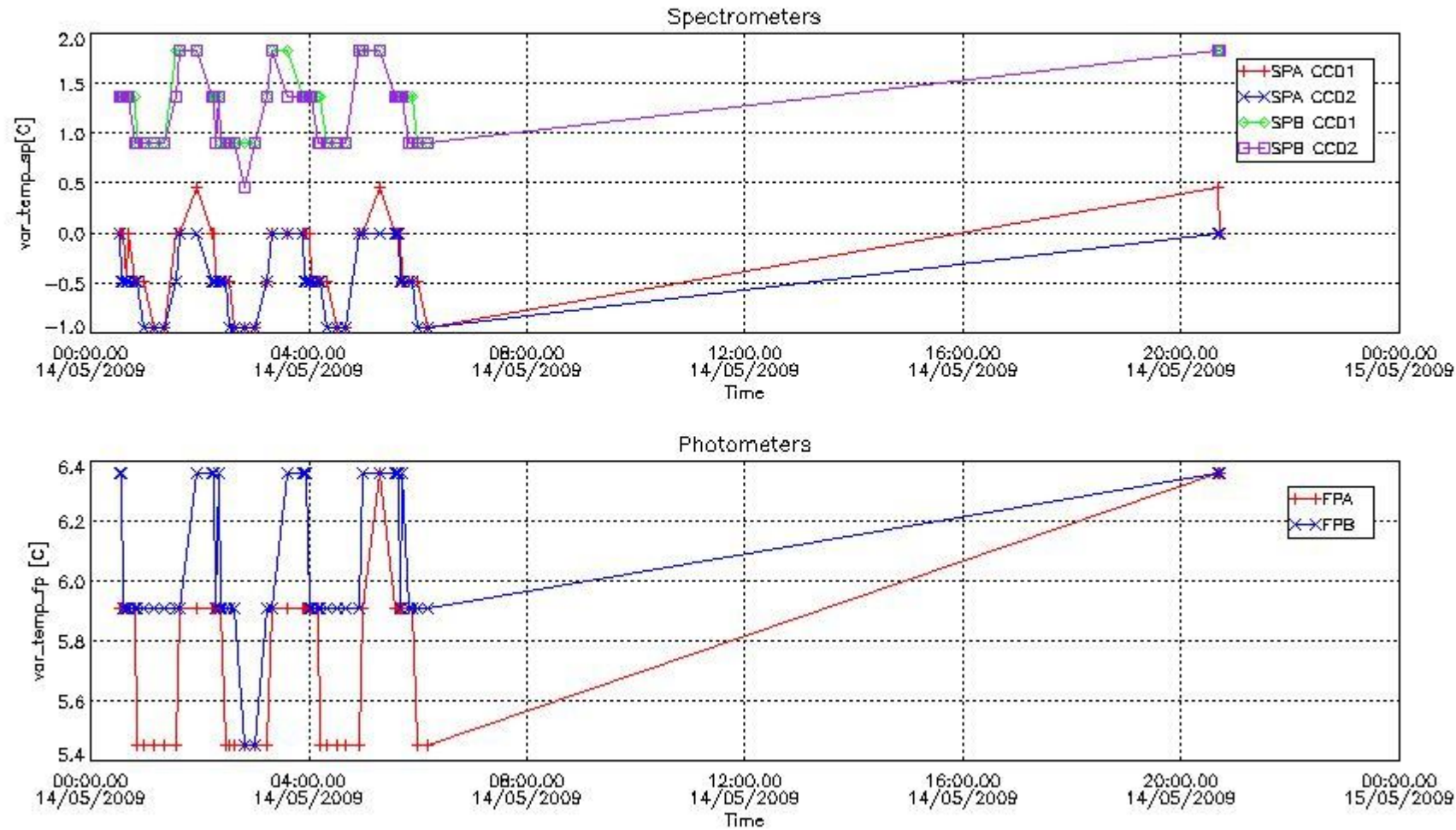
UTC start time	Star name	Star ID	Orbit
14-MAY-2009 00:16:09	GamGru	172	37659

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_1PNPDE20090514_003233_000000472079_00031_37660_4776.N1	14-MAY-2009 00:32:33	Straylight	47.000	38	20Eps Sgr	1.8360	11000.	94	37660	No
2	GOM_TRA_1PNPDE20090514_003411_000000562079_00031_37660_4777.N1	14-MAY-2009 00:34:11	Straylight	55.500	25	35Lam Sco	1.6200	28000.	111	37660	No
3	GOM_TRA_1PNPDE20090514_003637_000000532079_00031_37660_4778.N1	14-MAY-2009 00:36:37	Straylight	53.000	75	26Eps Sco	2.2910	4250.0	106	37660	No
4	GOM_TRA_1PNPDE20090514_003947_000000602079_00031_37660_4779.N1	14-MAY-2009 00:39:47	Twl_and_stray	59.500	16	21Alp Sco	1.0200	3000.0	119	37660	No
5	GOM_TRA_1PNPDE20090514_004134_000000502079_00031_37660_4780.N1	14-MAY-2009 00:41:34	Bright	49.500	80	7Del Sco	2.3160	30000.	99	37660	No
6	GOM_TRA_1PNPDE20090514_004829_000000522079_00031_37660_4781.N1	14-MAY-2009 00:48:29	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	37660	No
7	GOM_TRA_1PNPDE20090514_005141_000000452079_00031_37660_4782.N1	14-MAY-2009 00:51:41	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	37660	No
8	GOM_TRA_1PNPDE20090514_005811_000000442079_00031_37660_4783.N1	14-MAY-2009 00:58:11	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	37660	No
9	GOM_TRA_1PNPDE20090514_010911_000000412079_00031_37660_4784.N1	14-MAY-2009 01:09:11	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	37660	No
10	GOM_TRA_1PNPDE20090514_012006_000000422079_00031_37660_4785.N1	14-MAY-2009 01:20:06	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	37660	No

11	GOM_TRA_1PNPDE20090514_013339_00000622079_00031_37660_4786.N1	14-MAY-2009 01:33:39	Twilight	61.500	93	53Bet Peg	2.5200	3100.0	123	37660	No
12	GOM_TRA_1PNPDE20090514_013814_00000532079_00031_37660_4787.N1	14-MAY-2009 01:38:14	Dark	53.000	90	54Alp Peg	2.4870	11000.	106	37660	No
13	GOM_TRA_1PNPDE20090514_015646_00000462079_00031_37660_4902.N1	14-MAY-2009 01:56:46	Dark	45.500	172	Gam Gru	3.0030	13100.	91	37660	No
14	GOM_TRA_1PNPDE20090514_021310_00000472079_00032_37661_4903.N1	14-MAY-2009 02:13:10	Straylight	47.000	38	20Eps Sgr	1.8360	11000.	94	37661	No
15	GOM_TRA_1PNPDE20090514_021448_00000532079_00032_37661_4904.N1	14-MAY-2009 02:14:48	Straylight	52.500	25	35Lam Sco	1.6200	28000.	105	37661	No
16	GOM_TRA_1PNPDE20090514_021714_00000522079_00032_37661_4905.N1	14-MAY-2009 02:17:14	Straylight	51.500	75	26Eps Sco	2.2910	4250.0	103	37661	No
17	GOM_TRA_1PNPDE20090514_022024_00000622079_00032_37661_4906.N1	14-MAY-2009 02:20:24	Twilight	61.500	16	21Alp Sco	1.0200	3000.0	123	37661	No
18	GOM_TRA_1PNPDE20090514_022210_00000552079_00032_37661_4907.N1	14-MAY-2009 02:22:10	Bright	55.000	80	7Del Sco	2.3160	30000.	110	37661	No
19	GOM_TRA_1PNPDE20090514_022904_00000522079_00032_37661_4908.N1	14-MAY-2009 02:29:04	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	37661	No
20	GOM_TRA_1PNPDE20090514_023217_00000452079_00032_37661_4909.N1	14-MAY-2009 02:32:17	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	37661	No
21	GOM_TRA_1PNPDE20090514_023847_00000422079_00032_37661_4910.N1	14-MAY-2009 02:38:47	Bright	42.000	67	5Alp CrB	2.2210	11000.	84	37661	No
22	GOM_TRA_1PNPDE20090514_024947_00000382079_00032_37661_4911.N1	14-MAY-2009 02:49:47	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37661	No
23	GOM_TRA_1PNPDE20090514_030042_00000652079_00032_37661_5043.N1	14-MAY-2009 03:00:42	Bright	65.000	89	5Alp Cep	2.4510	8000.0	130	37661	No
24	GOM_TRA_1PNPDE20090514_031415_00000592079_00032_37661_5044.N1	14-MAY-2009 03:14:15	Twilight	59.000	93	53Bet Peg	2.5200	3100.0	118	37661	No
25	GOM_TRA_1PNPDE20090514_031850_00000562079_00032_37661_5045.N1	14-MAY-2009 03:18:50	Dark	55.500	90	54Alp Peg	2.4870	11000.	111	37661	No
26	GOM_TRA_1PNPDE20090514_033723_00000462079_00032_37661_5046.N1	14-MAY-2009 03:37:23	Dark	45.500	172	Gam Gru	3.0030	13100.	91	37661	No
27	GOM_TRA_1PNPDE20090514_035347_00000482079_00033_37662_5047.N1	14-MAY-2009 03:53:47	Straylight	48.000	38	20Eps Sgr	1.8360	11000.	96	37662	No
28	GOM_TRA_1PNPDE20090514_035525_00000542079_00033_37662_5048.N1	14-MAY-2009 03:55:25	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	37662	No
29	GOM_TRA_1PNPDE20090514_035750_00000522079_00033_37662_5049.N1	14-MAY-2009 03:57:50	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	37662	No
30	GOM_TRA_1PNPDE20090514_040100_00000562079_00033_37662_5050.N1	14-MAY-2009 04:01:00	Twilight	56.000	16	21Alp Sco	1.0200	3000.0	112	37662	No
31	GOM_TRA_1PNPDE20090514_040246_00000622079_00033_37662_5051.N1	14-MAY-2009 04:02:46	Bright	61.500	80	7Del Sco	2.3160	30000.	123	37662	No
32	GOM_TRA_1PNPDE20090514_040940_00000522079_00033_37662_5052.N1	14-MAY-2009 04:09:40	Bright	52.000	120	1Del Oph	2.7340	3200.0	104	37662	No
33	GOM_TRA_1PNPDE20090514_041252_00000462079_00033_37662_5053.N1	14-MAY-2009 04:12:52	Bright	45.500	102	24Alp Ser	2.6000	4250.0	91	37662	No
34	GOM_TRA_1PNPDE20090514_041922_00000432079_00033_37662_5054.N1	14-MAY-2009 04:19:22	Bright	43.000	67	5Alp CrB	2.2210	11000.	86	37662	No
35	GOM_TRA_1PNPDE20090514_043022_00000422079_00033_37662_5055.N1	14-MAY-2009 04:30:22	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	37662	No
36	GOM_TRA_1PNPDE20090514_044117_00000422079_00033_37662_5244.N1	14-MAY-2009 04:41:17	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	37662	No
37	GOM_TRA_1PNPDE20090514_045451_00000592079_00033_37662_5245.N1	14-MAY-2009 04:54:51	Twilight	59.000	93	53Bet Peg	2.5200	3100.0	118	37662	No
38	GOM_TRA_1PNPDE20090514_045927_00000532079_00033_37662_5246.N1	14-MAY-2009 04:59:27	Dark	53.000	90	54Alp Peg	2.4870	11000.	106	37662	No
39	GOM_TRA_1PNPDE20090514_051801_00000452079_00033_37662_5247.N1	14-MAY-2009 05:18:01	Dark	44.500	172	Gam Gru	3.0030	13100.	89	37662	No
40	GOM_TRA_1PNPDE20090514_053424_00000482079_00034_37663_5248.N1	14-MAY-2009 05:34:24	Straylight	48.000	38	20Eps Sgr	1.8360	11000.	96	37663	No
41	GOM_TRA_1PNPDE20090514_053601_00000522079_00034_37663_5249.N1	14-MAY-2009 05:36:01	Straylight	52.000	25	35Lam Sco	1.6200	28000.	104	37663	No
42	GOM_TRA_1PNPDE20090514_053827_00000502079_00034_37663_5250.N1	14-MAY-2009 05:38:27	Straylight	50.000	75	26Eps Sco	2.2910	4250.0	100	37663	No
43	GOM_TRA_1PNPDE20090514_054136_00000612079_00034_37663_5251.N1	14-MAY-2009 05:41:36	Twilight	60.500	16	21Alp Sco	1.0200	3000.0	121	37663	No
44	GOM_TRA_1PNPDE20090514_054323_00000602079_00034_37663_5252.N1	14-MAY-2009 05:43:23	Bright	60.000	80	7Del Sco	2.3160	30000.	120	37663	No
45	GOM_TRA_1PNPDE20090514_055016_00000522079_00034_37663_5253.N1	14-MAY-2009 05:50:16	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	37663	No
46	GOM_TRA_1PNPDE20090514_055328_00000452079_00034_37663_5254.N1	14-MAY-2009 05:53:28	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37663	No
47	GOM_TRA_1PNPDE20090514_055958_00000452079_00034_37663_5255.N1	14-MAY-2009 05:59:58	Bright	44.500	67	5Alp CrB	2.2210	11000.	89	37663	No
48	GOM_TRA_1PNPDE20090514_061057_00000422079_00034_37663_5256.N1	14-MAY-2009 06:10:57	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	37663	No
49	GOM_TRA_1PNPDE20090514_203956_00000572079_00043_37672_5776.N1	14-MAY-2009 20:39:56	Straylight	57.000	38	20Eps Sgr	1.8360	11000.	114	37672	No
50	GOM_TRA_1PNPDE20090514_204131_00000522079_00043_37672_5777.N1	14-MAY-2009 20:41:31	Straylight	52.000	25	35Lam Sco	1.6200	28000.	104	37672	No

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



4. Overview of dark signal processing per product

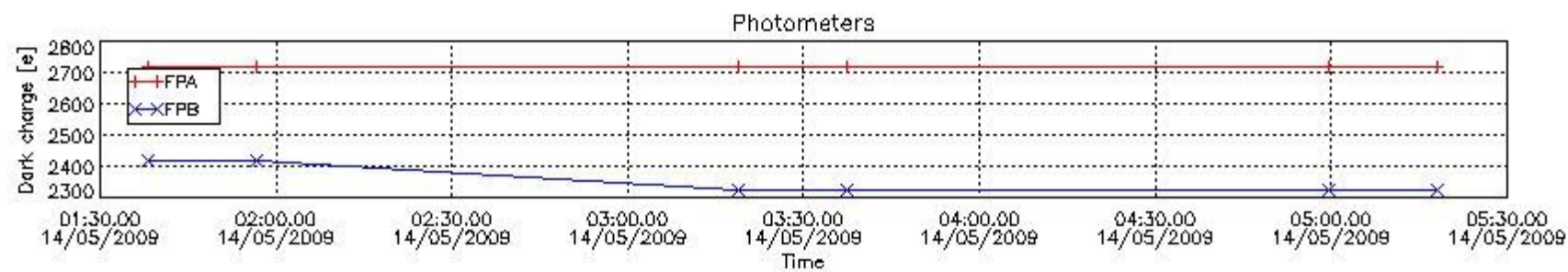
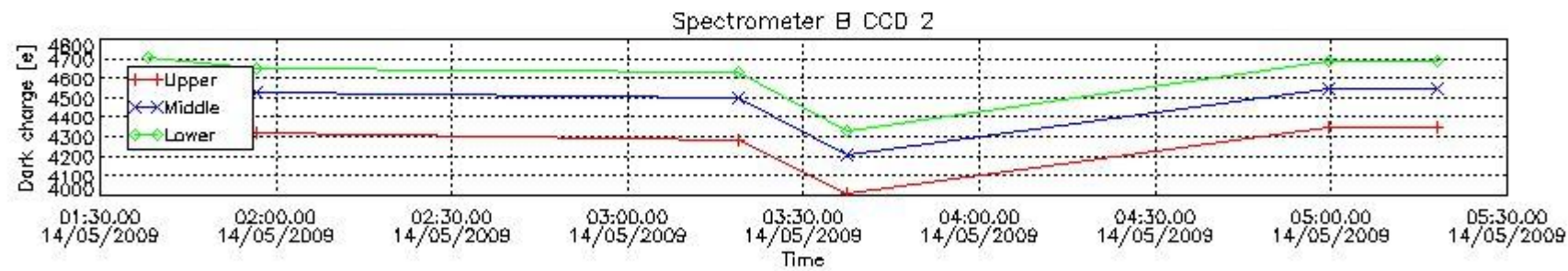
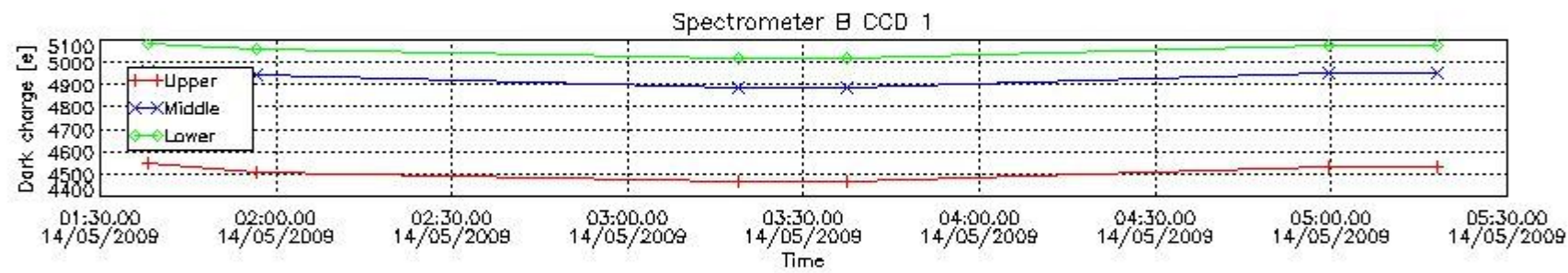
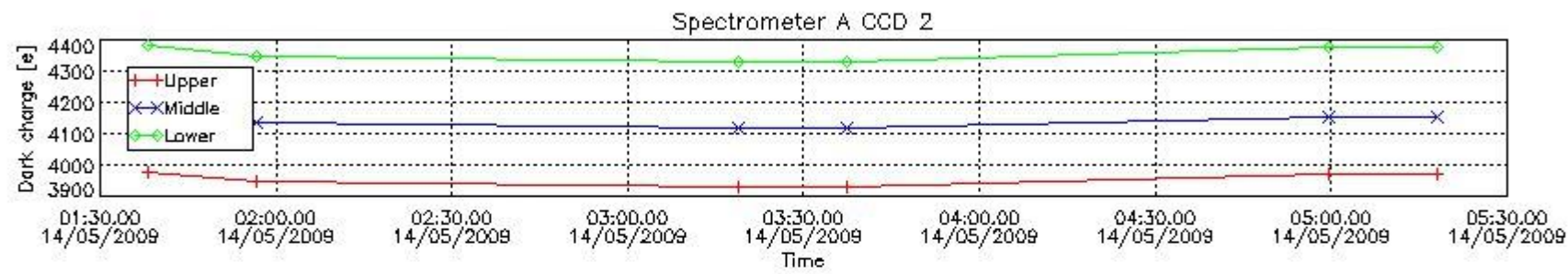
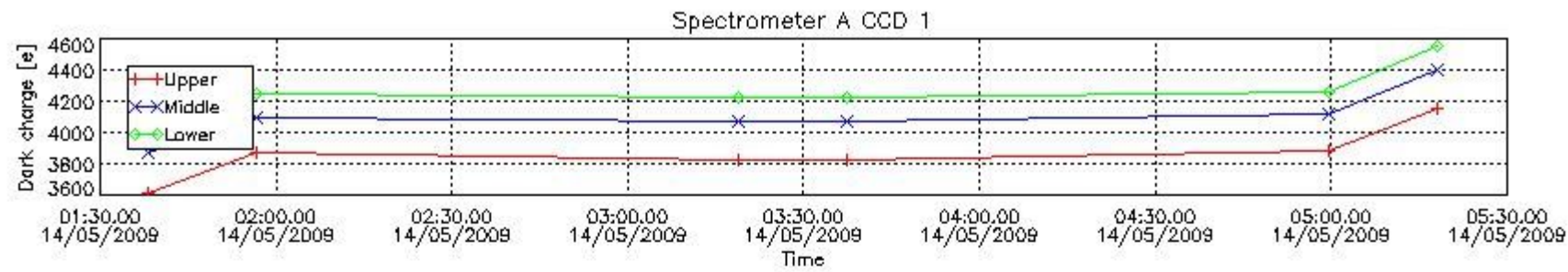
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090514_003233_000000472079_00031_37660_4776.N1	DC map used
GOM_TRA_1PNPDE20090514_003411_000000562079_00031_37660_4777.N1	DC map used
GOM_TRA_1PNPDE20090514_003637_000000532079_00031_37660_4778.N1	DC map used
GOM_TRA_1PNPDE20090514_003947_000000602079_00031_37660_4779.N1	DC map used
GOM_TRA_1PNPDE20090514_004134_000000502079_00031_37660_4780.N1	DC map used
GOM_TRA_1PNPDE20090514_004829_000000522079_00031_37660_4781.N1	DC map used
GOM_TRA_1PNPDE20090514_005141_000000452079_00031_37660_4782.N1	DC map used
GOM_TRA_1PNPDE20090514_005811_000000442079_00031_37660_4783.N1	DC map used
GOM_TRA_1PNPDE20090514_010911_000000412079_00031_37660_4784.N1	DC map used
GOM_TRA_1PNPDE20090514_012006_000000422079_00031_37660_4785.N1	DC map used
GOM_TRA_1PNPDE20090514_013339_000000622079_00031_37660_4786.N1	DC map used
GOM_TRA_1PNPDE20090514_013814_000000532079_00031_37660_4787.N1	DC map used
GOM_TRA_1PNPDE20090514_203956_000000572079_00043_37672_5776.N1	DC map used
GOM_TRA_1PNPDE20090514_204131_000000522079_00043_37672_5777.N1	DC map used

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



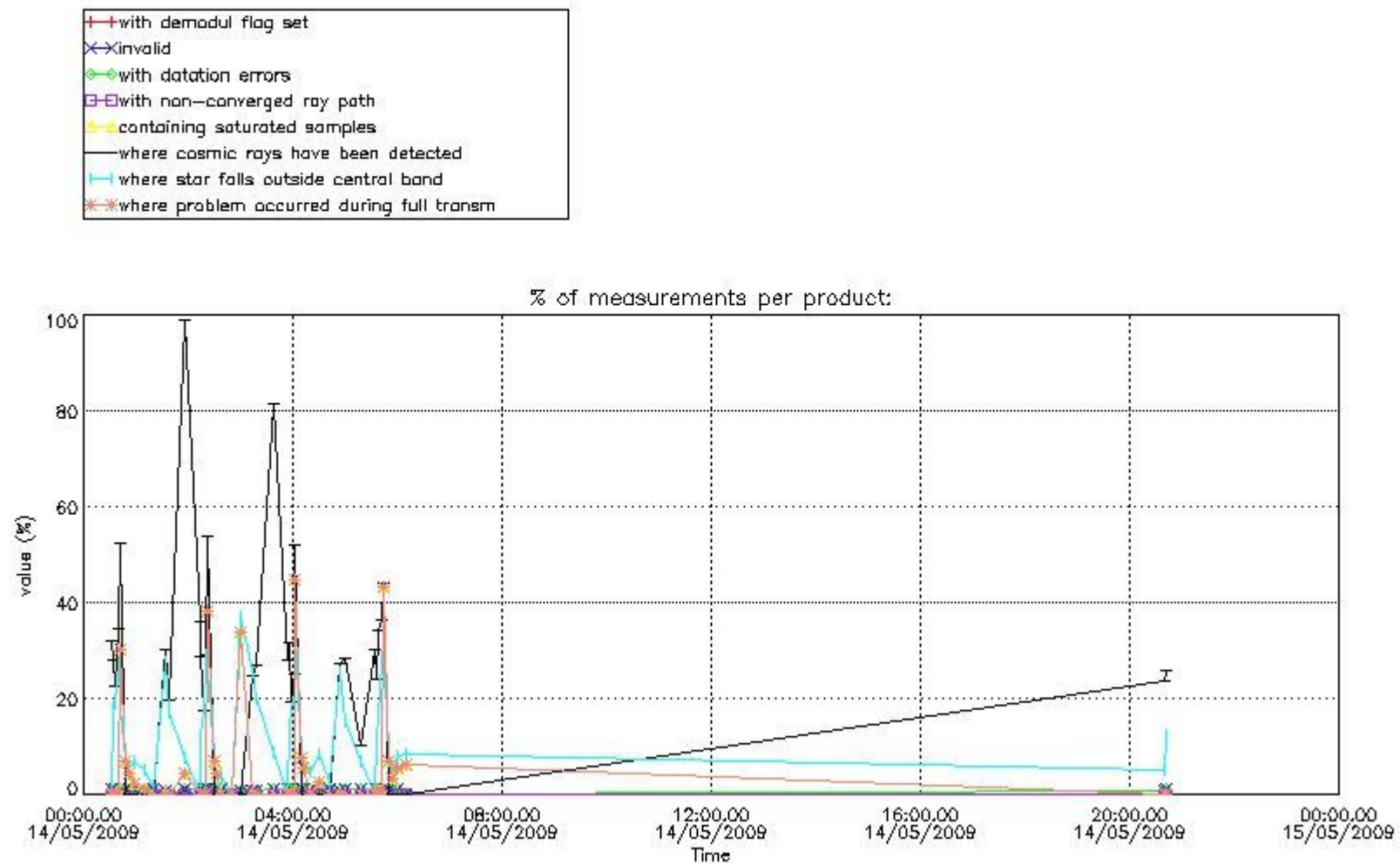
5. Demodulation flag and quality information monitoring

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.

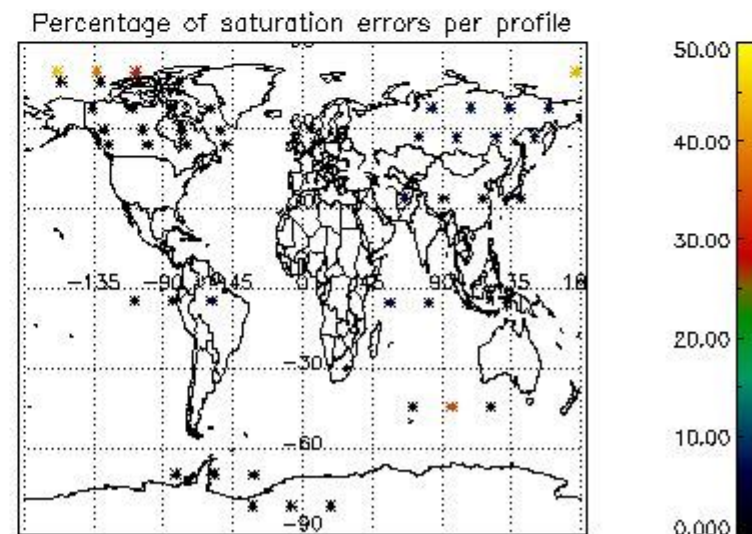
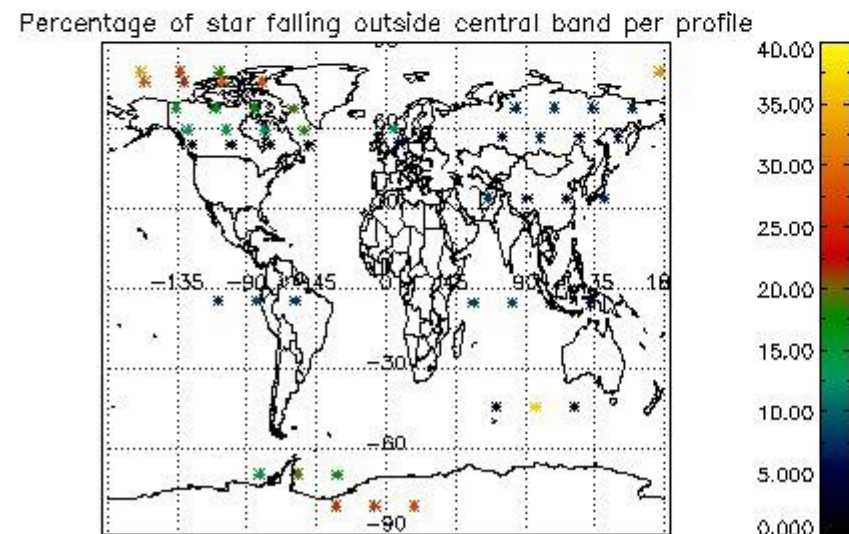
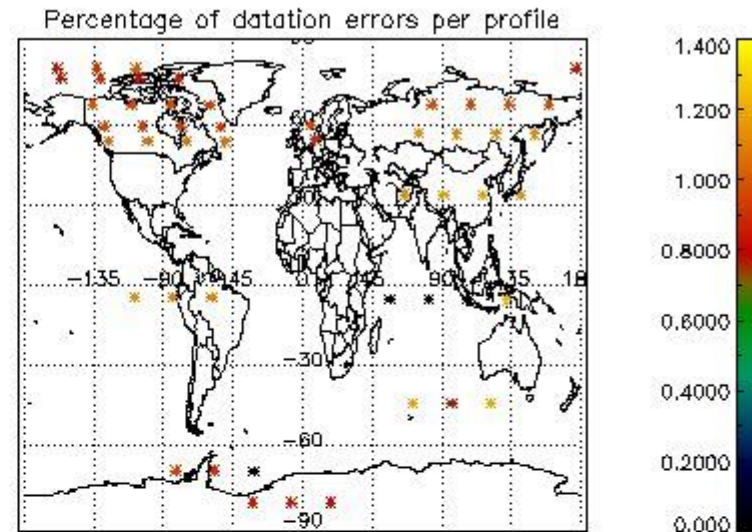
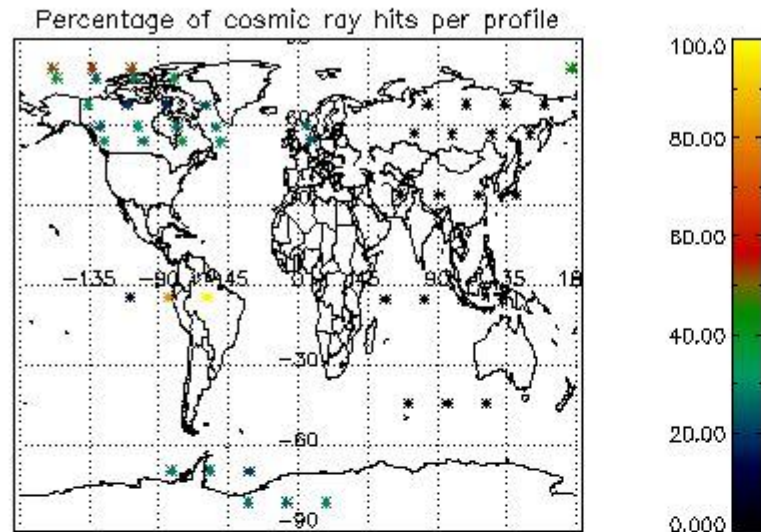
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



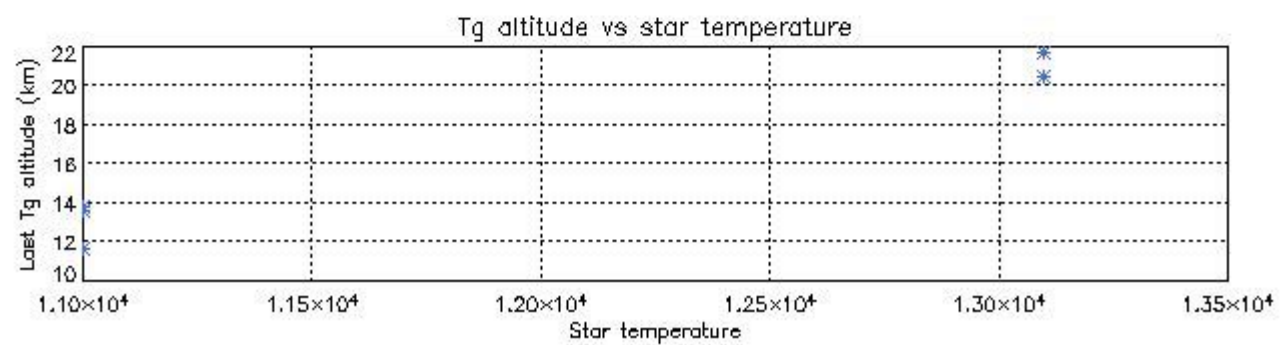
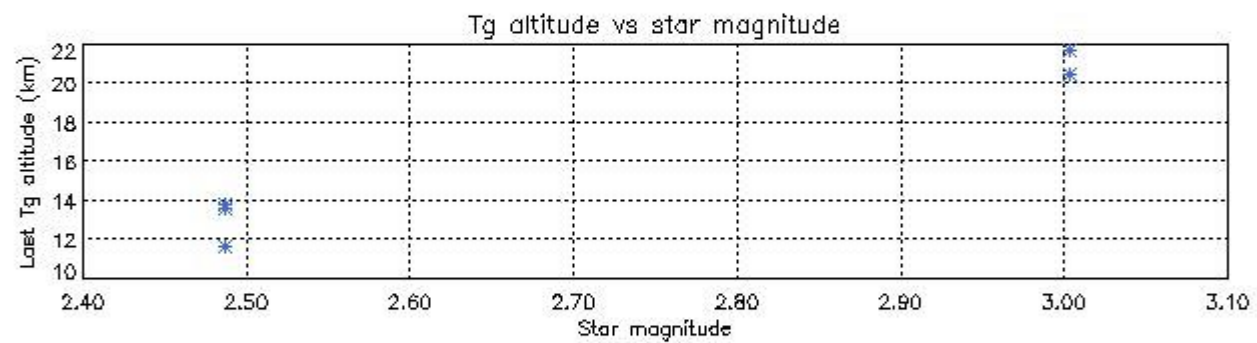
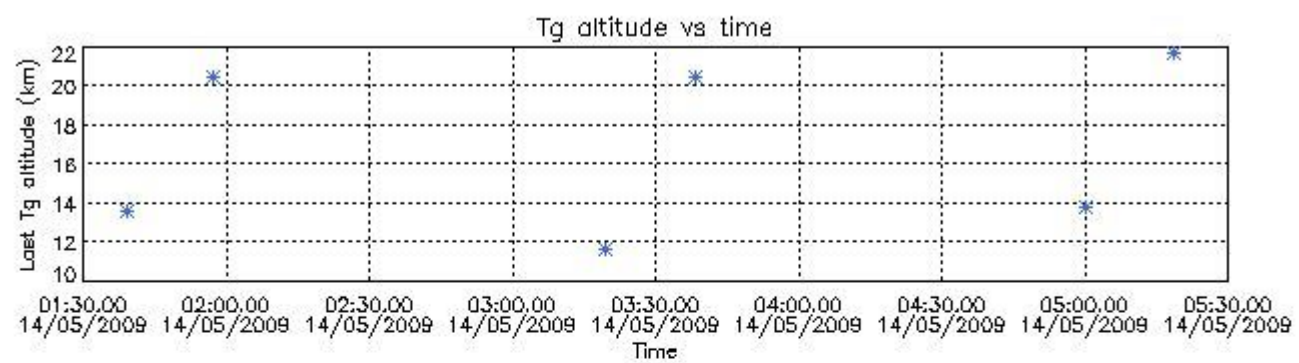
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.929	18.972	NaN
St. deviation:	4.3969	6.8332	NaN
Maximum:	21.715	29.031	NaN
Minimum:	11.640	3.3982	NaN
Number of data:	6.0000	23.000	NaN

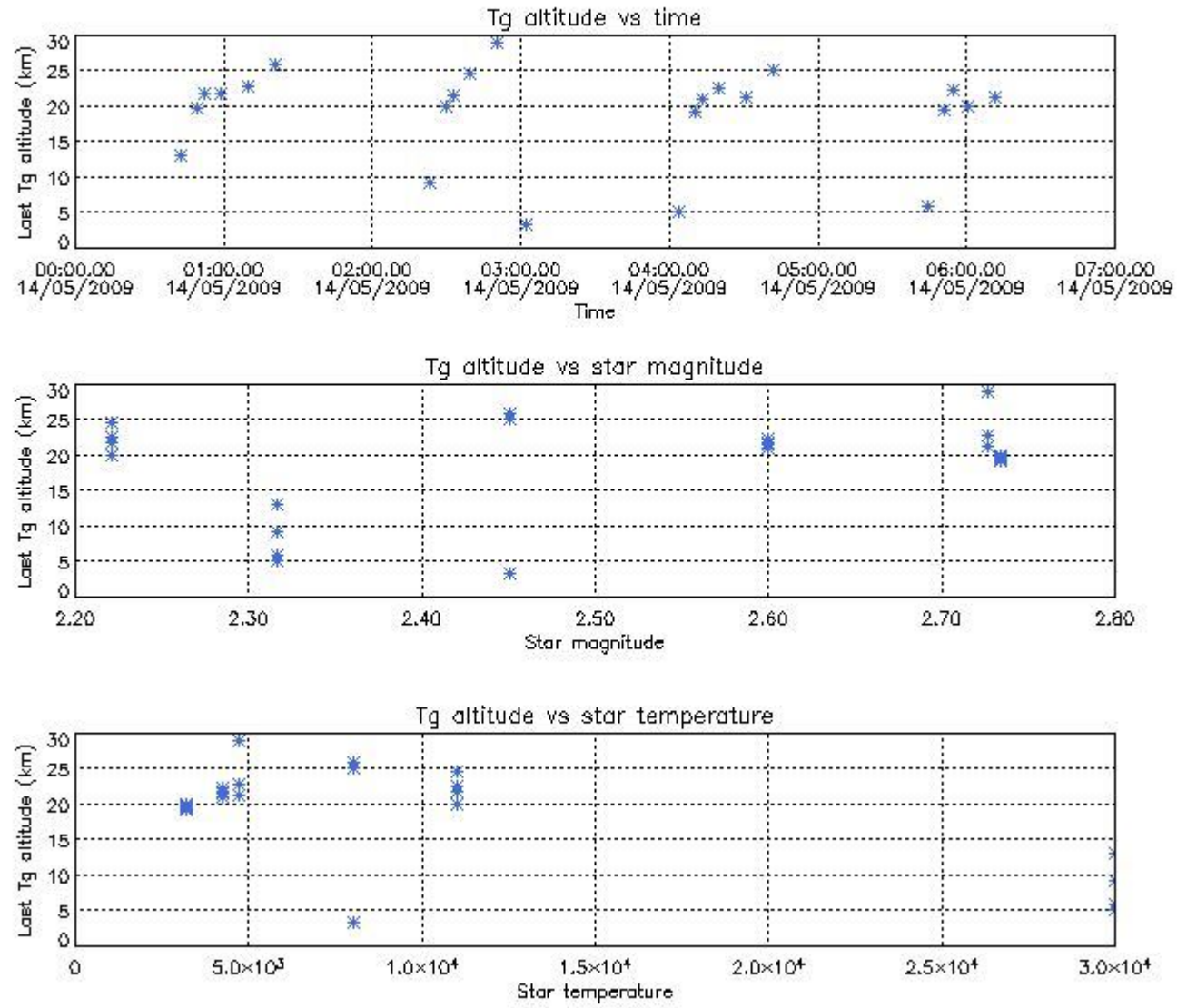
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

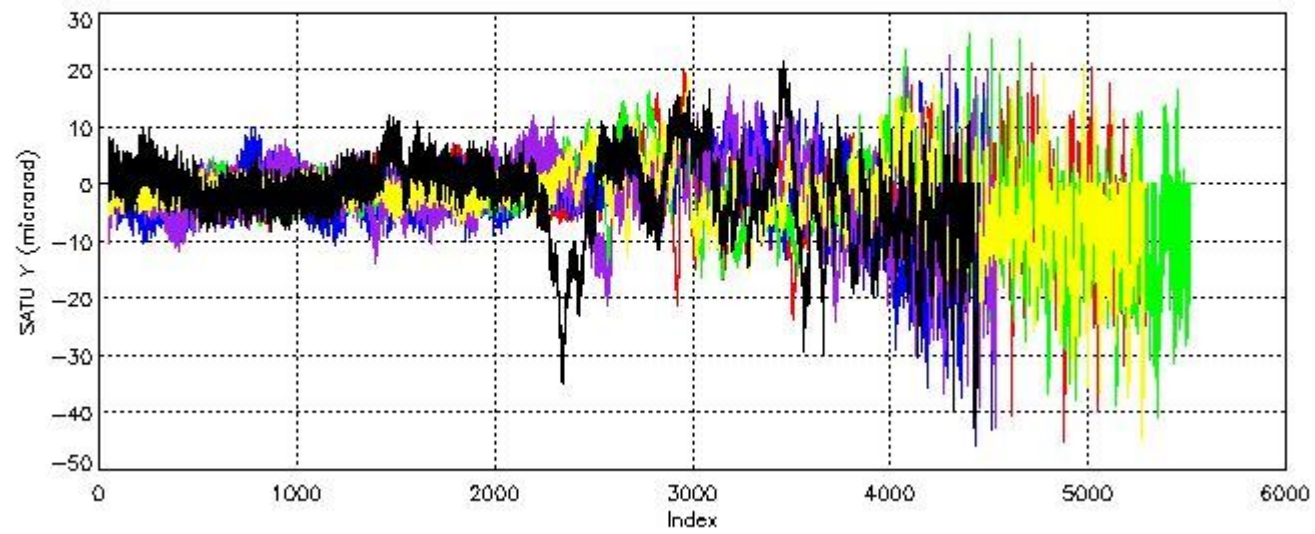
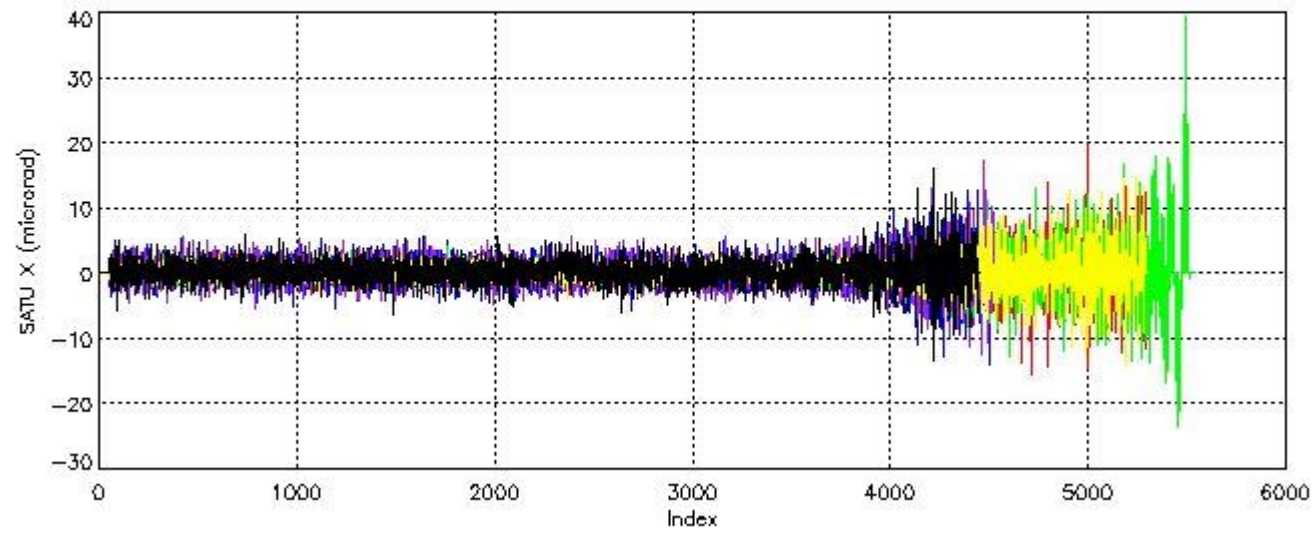


7. Star Acquisition and Tracking Unit (SATU)

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:	0.30212	-1.1434	0.30208	-1.0605
St. deviation:	1.2817	2.7794	0.72443	1.4586
Maximum:	6.0000	10.100	3.9000	5.6000
Minimum:	-5.7000	-11.600	-3.1000	-11.000

Number of data:	6600.0	6600.0	24150.	24150.
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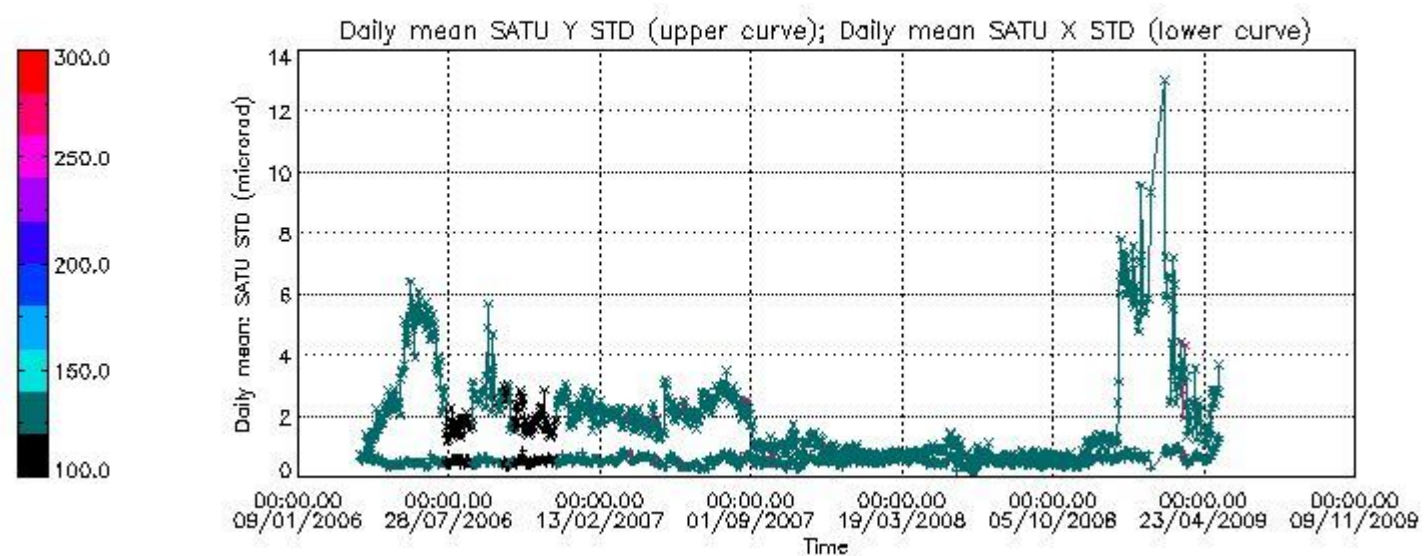
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

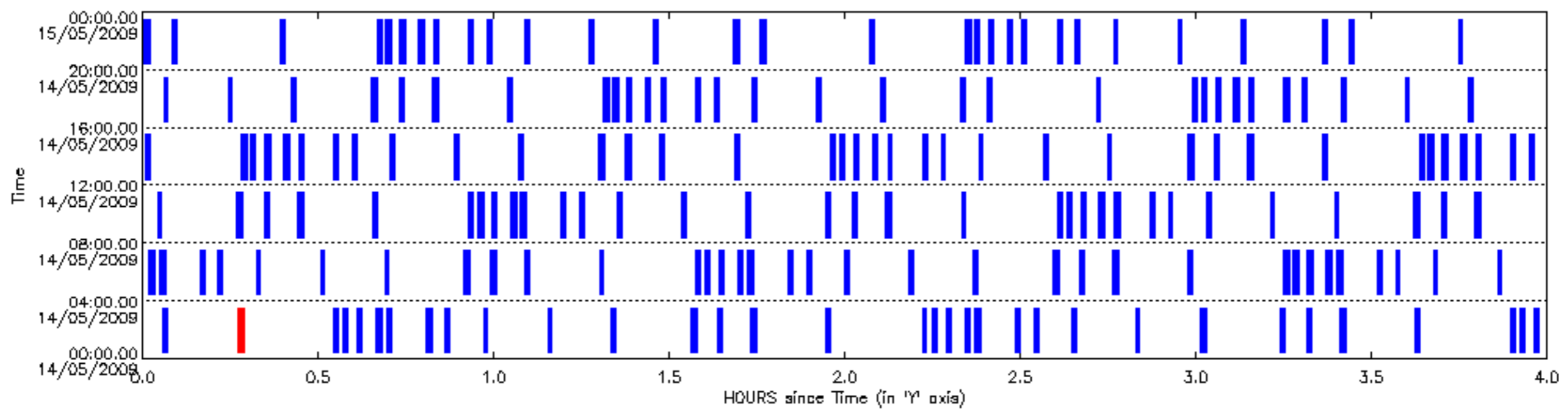
Lower curve: STD of SATU X axis

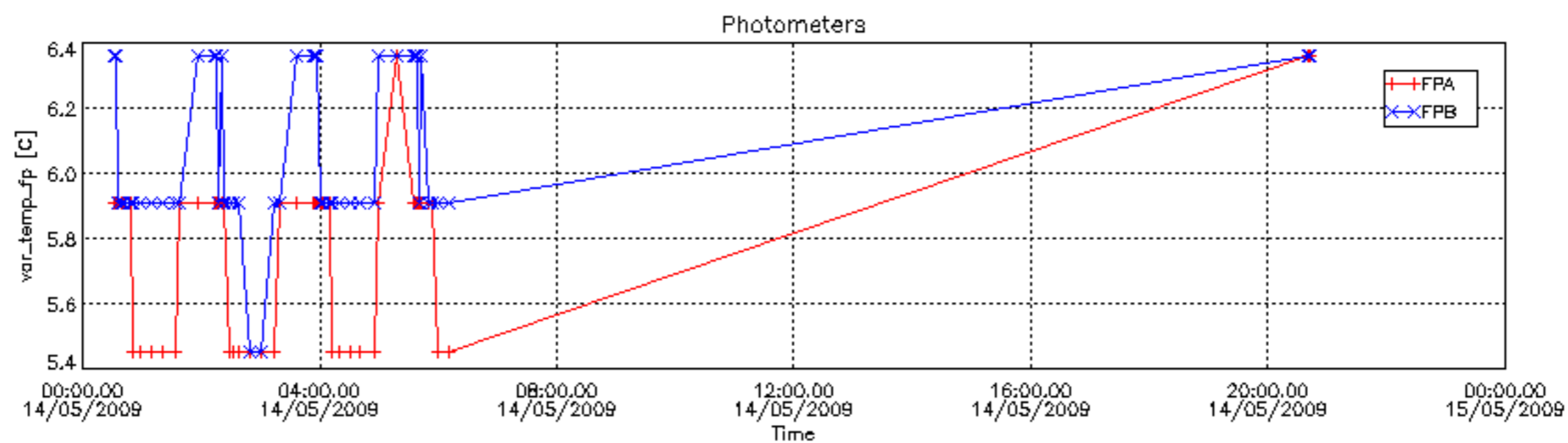
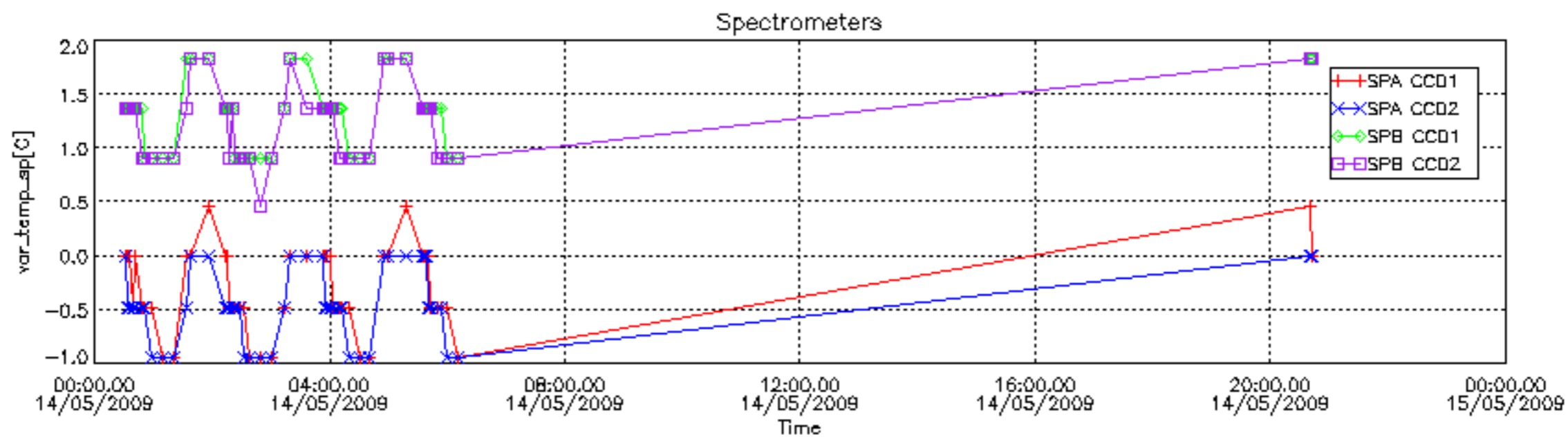


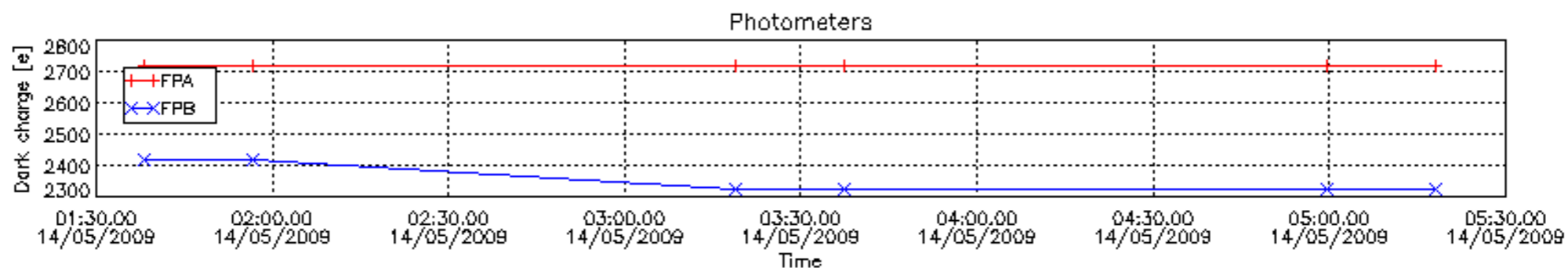
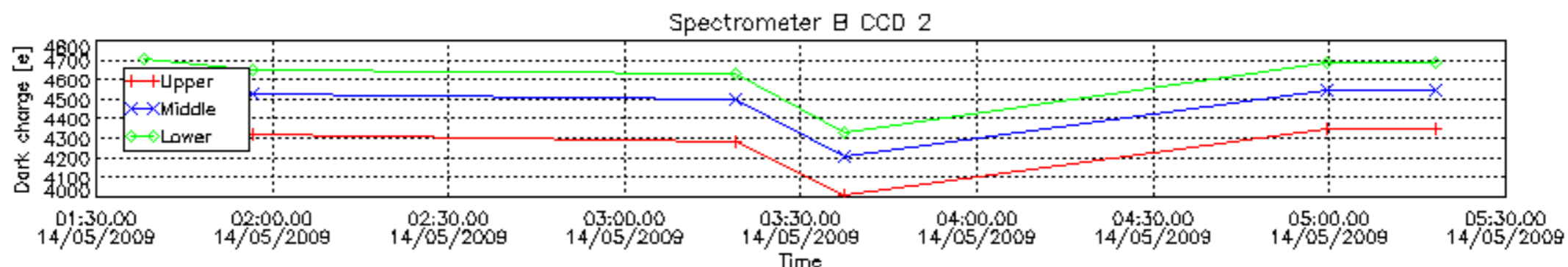
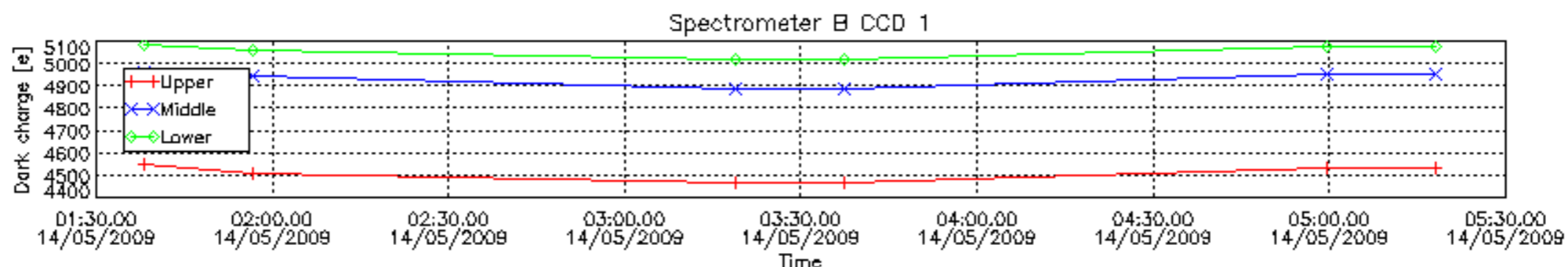
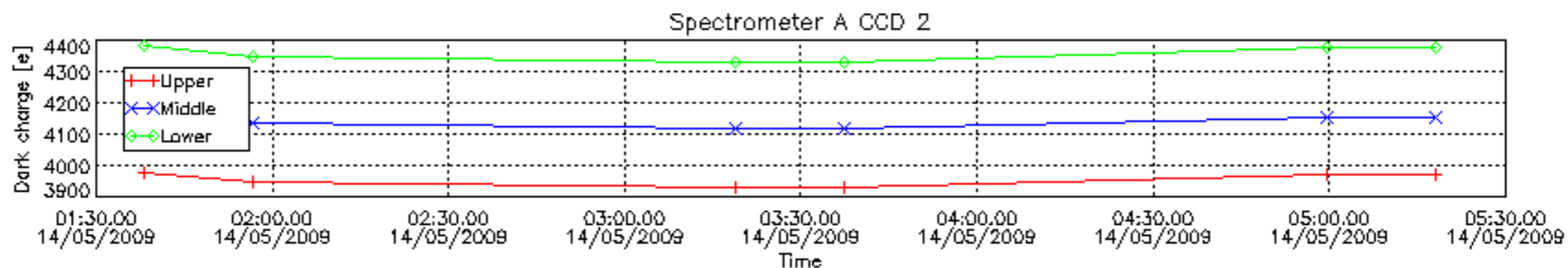
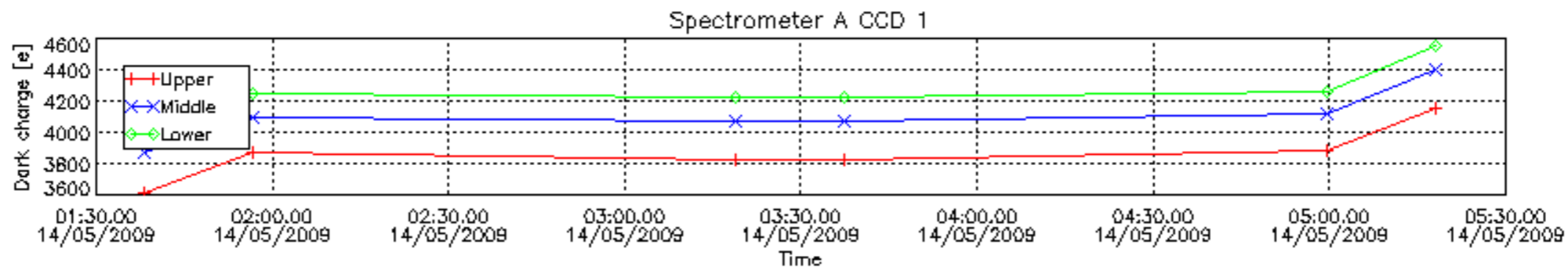
8. Auxiliary Data Files used for the production reported in section 2.4

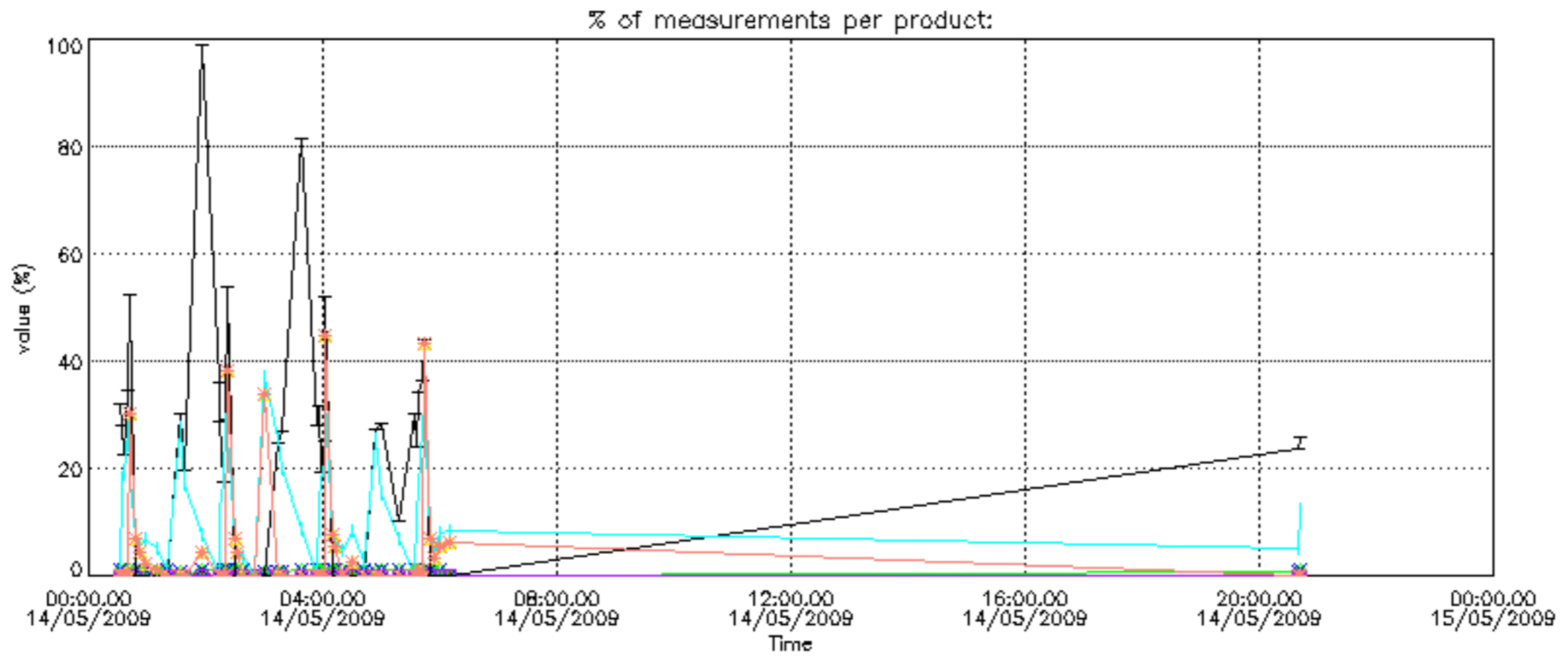
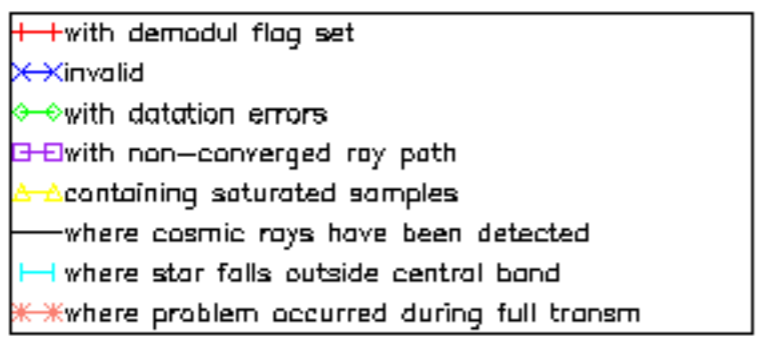
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-MAY-2009 00:32:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090511_131319_20090509_000000_20100101_000000	1	14-MAY-2009 00:32:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-MAY-2009 00:32:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-MAY-2009 00:32:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-MAY-2009 00:32:33
ECMWF_FILE	AUX_ECF_AXNECM20090513_064112_20090513_210000_20090514_090000	1	14-MAY-2009 00:32:33
ECMWF_FILE	AUX_ECF_AXNECM20090513_184112_20090514_030000_20090514_150000	23	14-MAY-2009 03:00:42
ECMWF_FILE	AUX_ECF_AXNECM20090514_064113_20090514_150000_20090515_030000	49	14-MAY-2009 20:39:56
OPTIONAL_ECMWF_FILE	MISSING	1	14-MAY-2009 00:32:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090513_222014_000057382079_00029_37658_7939.N1	1	14-MAY-2009 00:32:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090514_000111_000057382079_00030_37659_7940.N1	13	14-MAY-2009 01:56:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090514_014208_000041442079_00031_37660_7941.N1	23	14-MAY-2009 03:00:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090514_043728_000057382079_00033_37662_7943.N1	36	14-MAY-2009 04:41:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090514_203909_000038252079_00043_37672_7944.N1	49	14-MAY-2009 20:39:56

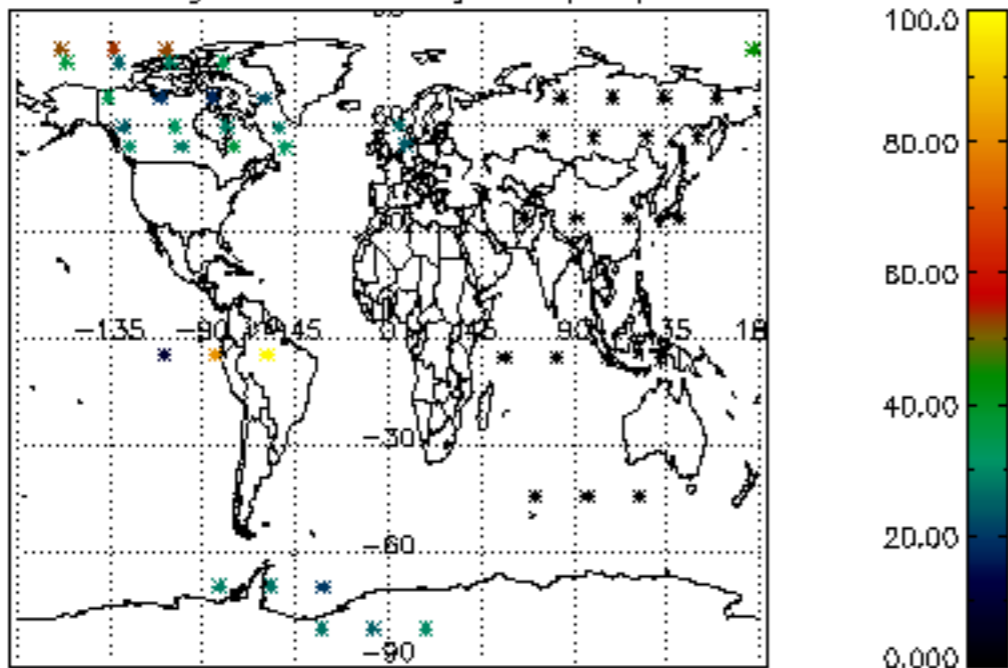




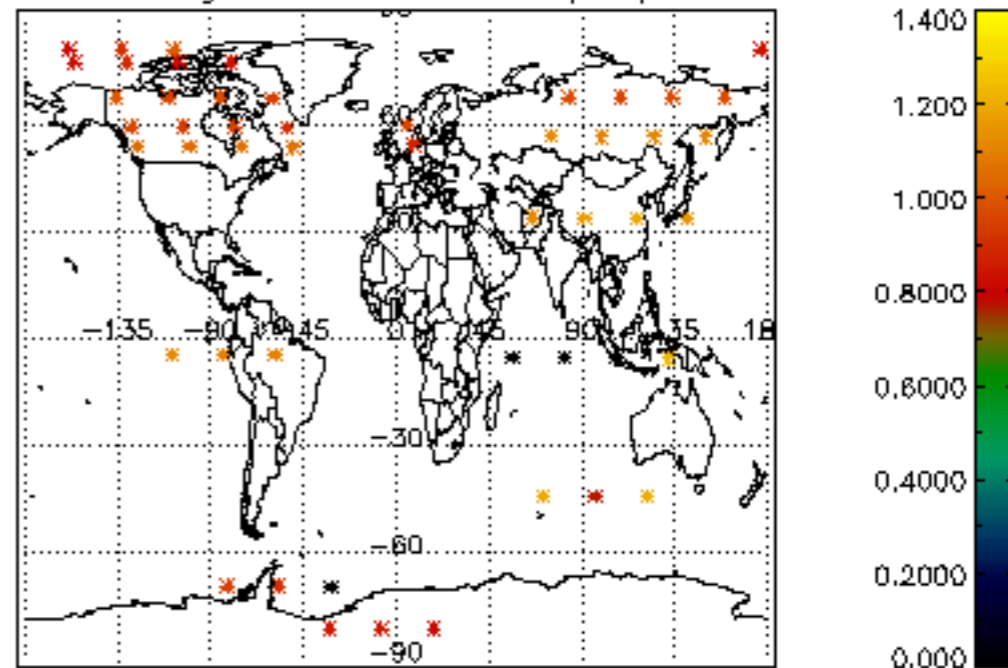




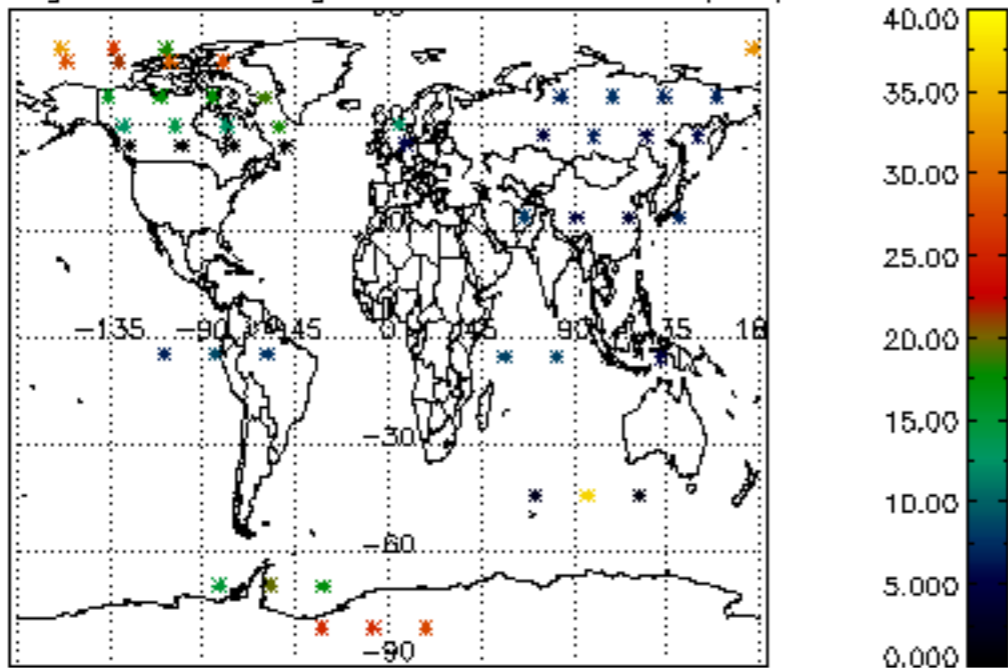
Percentage of cosmic ray hits per profile



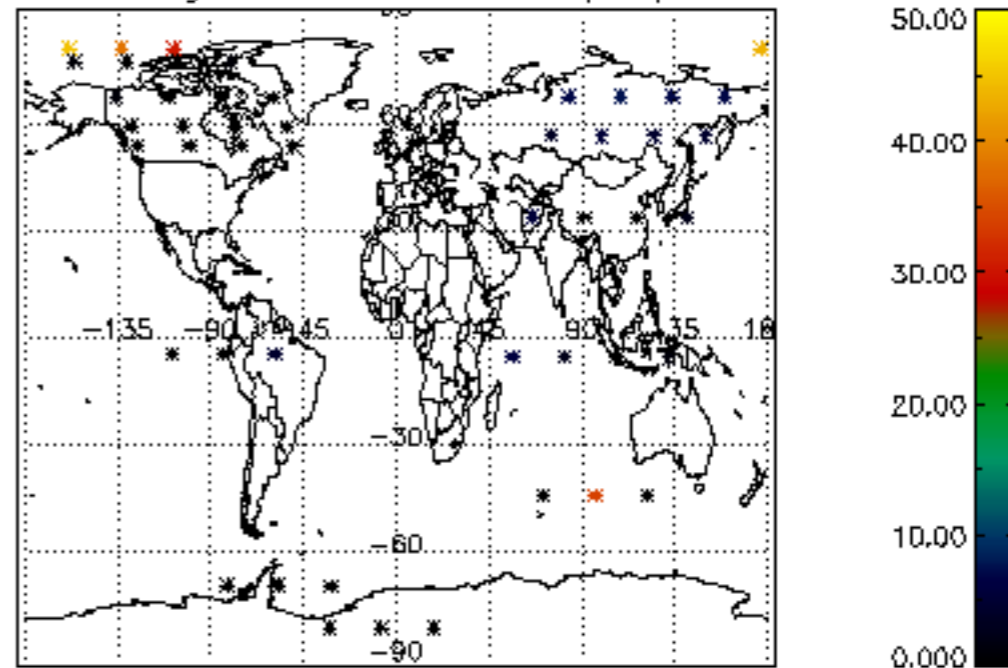
Percentage of datation errors per profile



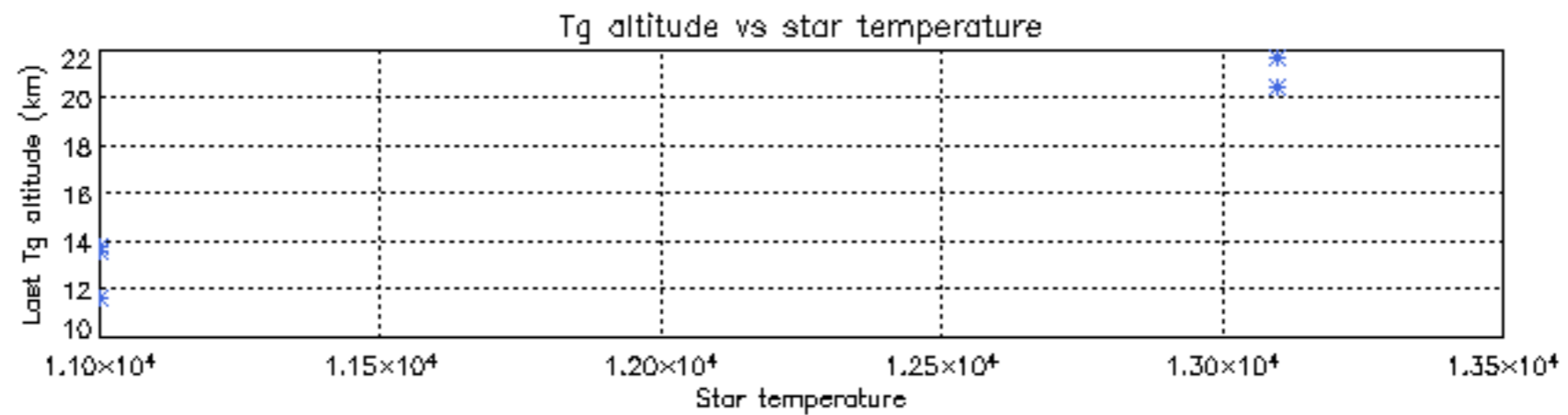
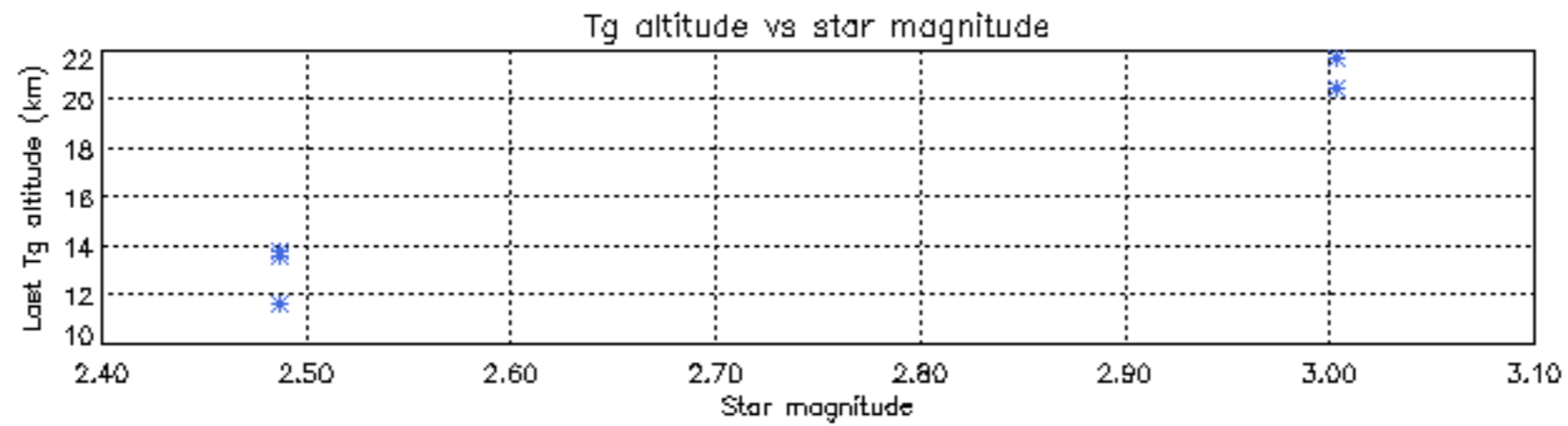
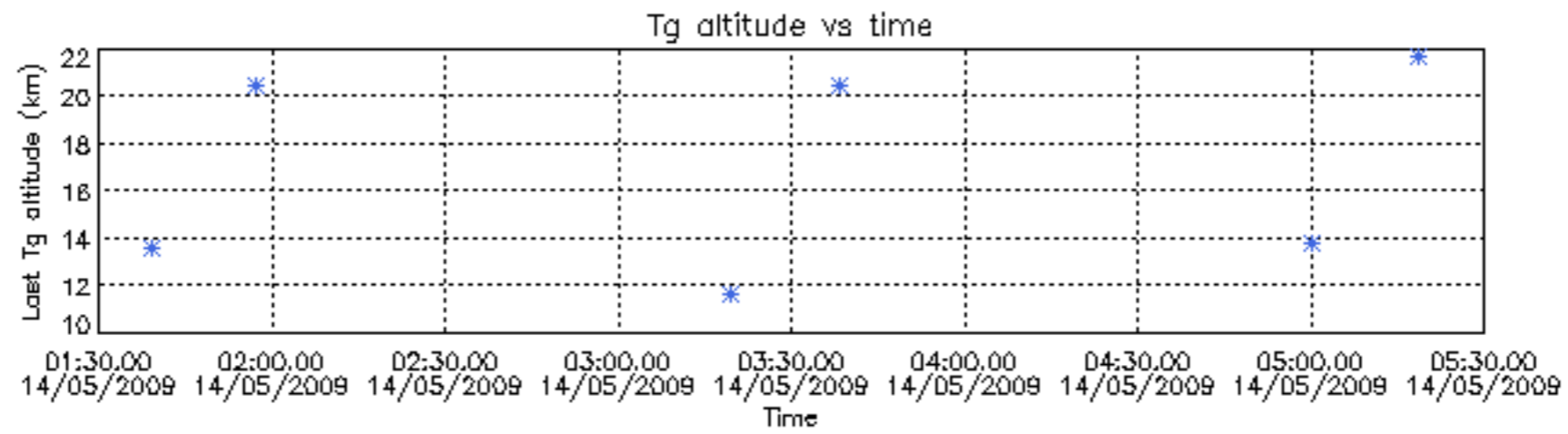
Percentage of star falling outside central band per profile



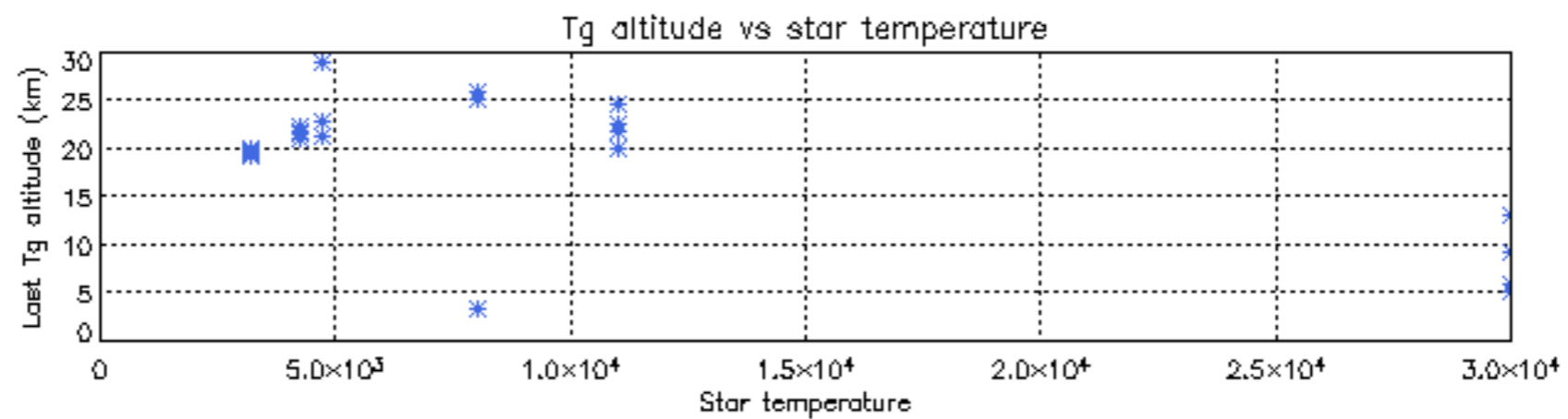
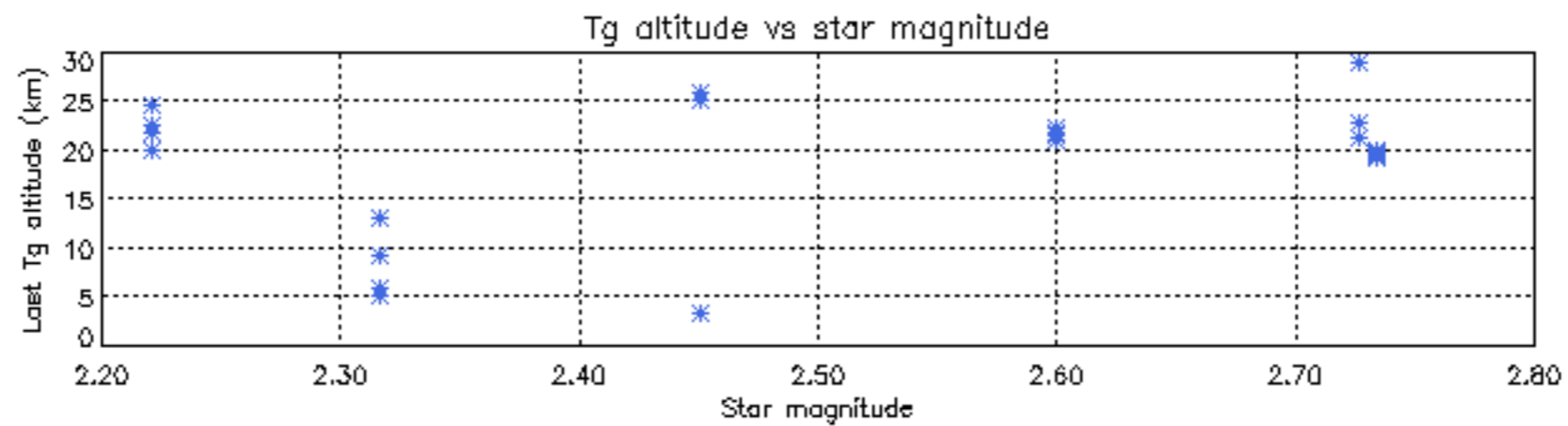
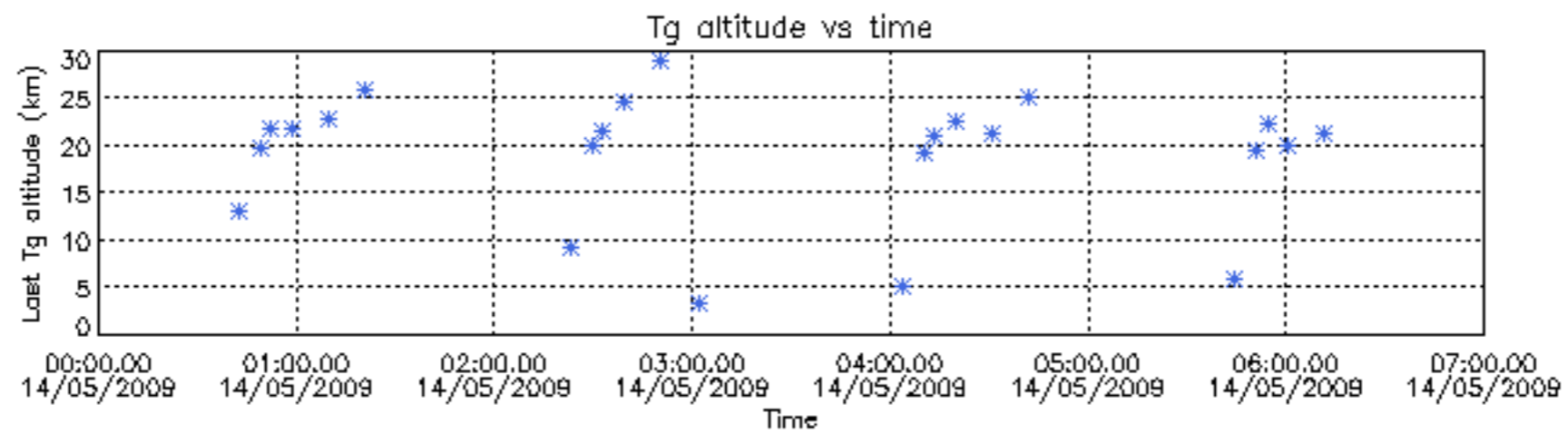
Percentage of saturation errors per profile

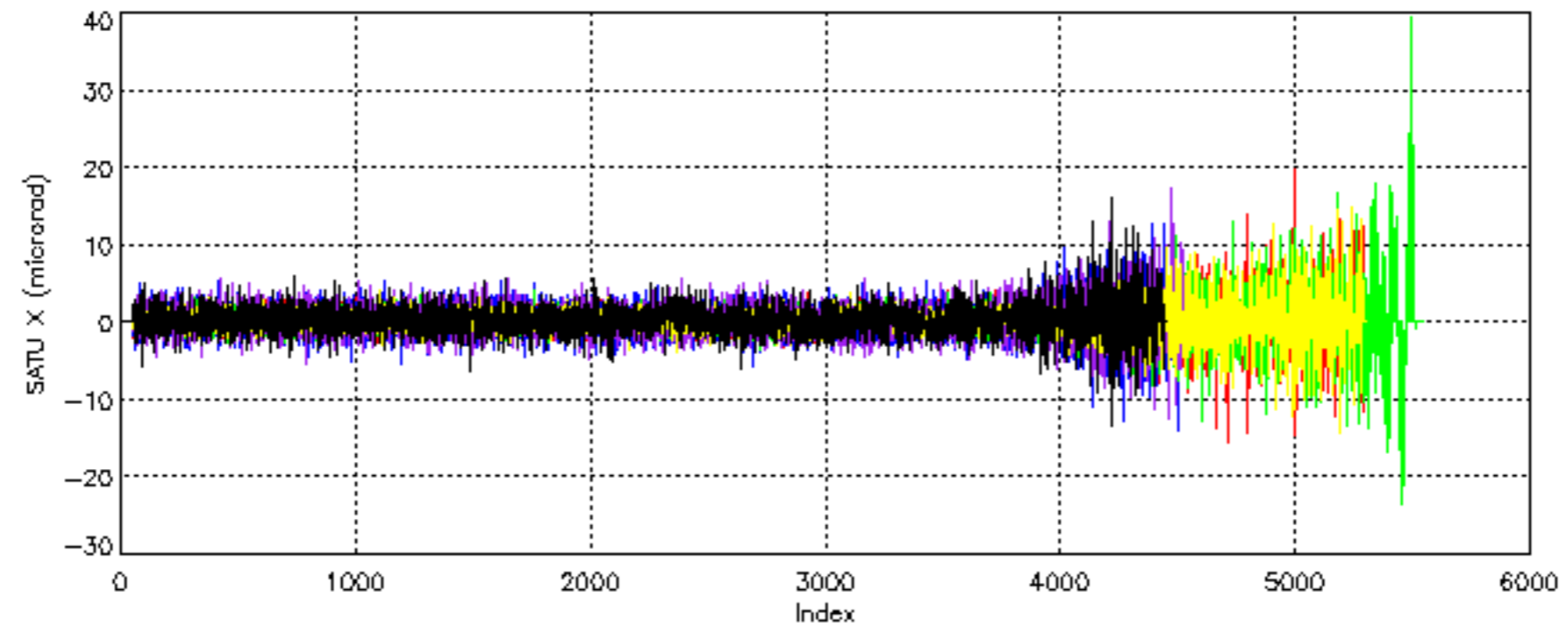


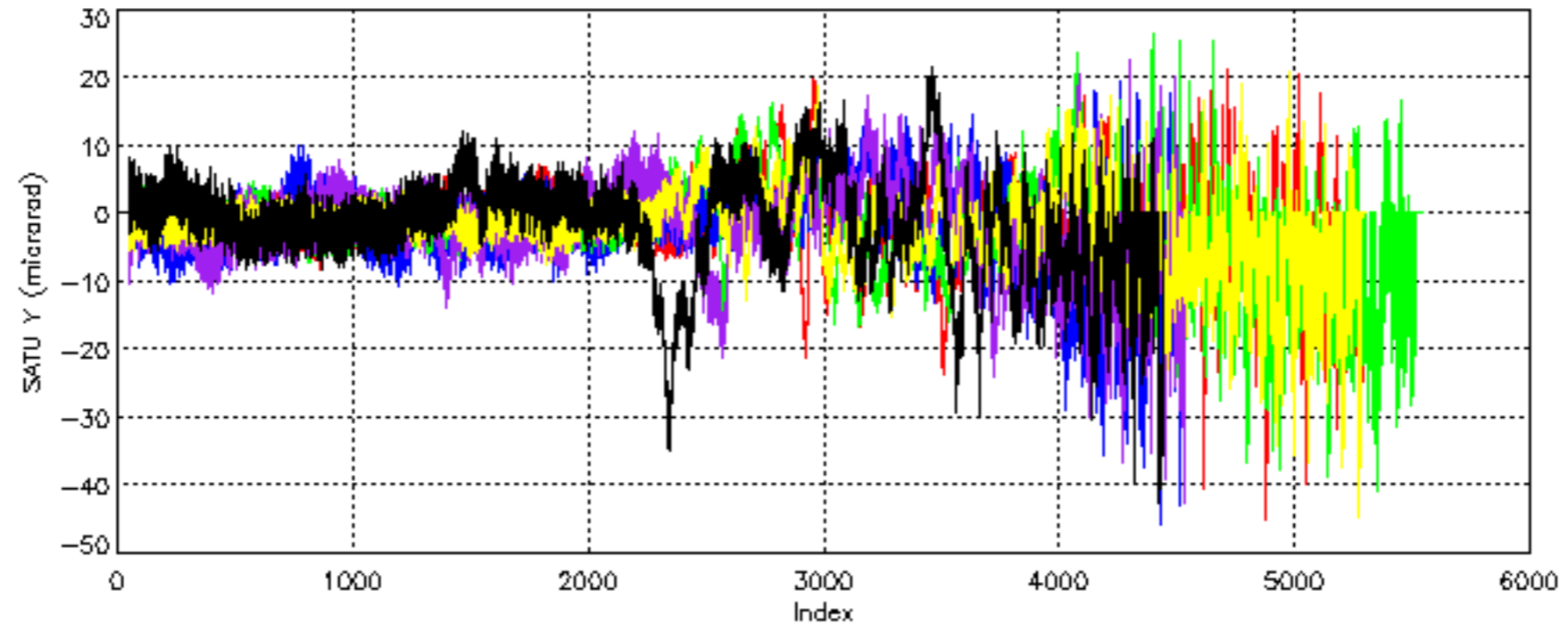
Tangent altitude at which the star is lost

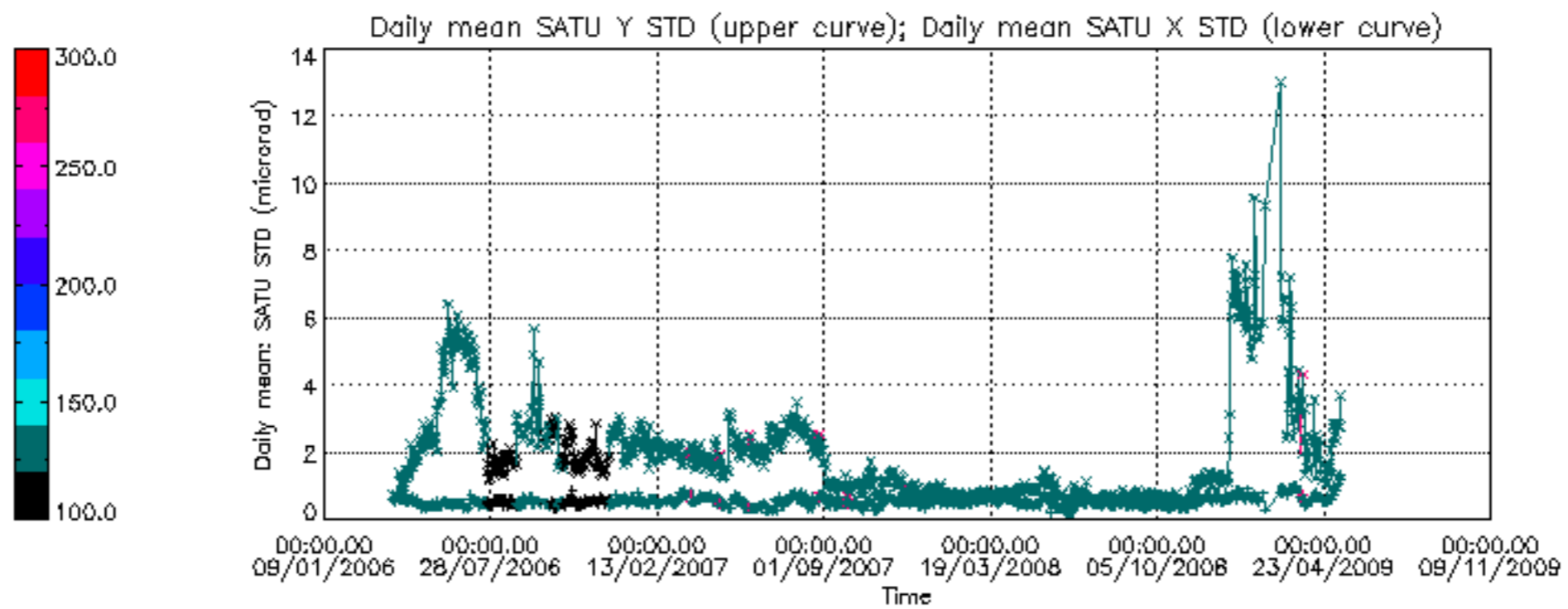


Tangent altitude at which the star is lost









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 2; -476.9; 01-MAY-2009 00:18:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37473
 3; 748.8; 01-MAY-2009 00:38:31; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;37474
 4; 853.9; 01-MAY-2009 00:40:16; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;37474
 5; 1041.1; 01-MAY-2009 00:43:23; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37474
 6; 1266.2; 01-MAY-2009 00:47:08; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37474
 7; 1400.8; 01-MAY-2009 00:49:23; Dark ; 58.0; 80; 7Del Sco ; 2.32; 30000;occ; 116; 0;37474
 8; 1590.8; 01-MAY-2009 00:52:33; Bright; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;37474
 9; 1728.1; 01-MAY-2009 00:54:50; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37474
 10; 2264.2; 01-MAY-2009 01:03:46; Bright; 45.0; 3; 16Alp Boo ; -0.05; 4250;occ; 90; 0;37474
 11; 2455.1; 01-MAY-2009 01:06:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37474
 12; 2635.6; 01-MAY-2009 01:09:58; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37474
 13; 3209.6; 01-MAY-2009 01:19:32; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37474
 14; 3828.1; 01-MAY-2009 01:29:50; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37474
 15; 4509.0; 01-MAY-2009 01:41:11; Dark ; 36.5; 164; 44Eta Peg ; 2.95; 5400;occ; 73; 0;37474
 16; 5033.8; 01-MAY-2009 01:49:56; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37474
 17; 5179.5; 01-MAY-2009 01:52:22; Dark ; 30.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 60; 0;37474

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 2; -632.3; 01-MAY-2009 01:56:06; Dark ; 59.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 118; 0;37474
 3; -475.7; 01-MAY-2009 01:58:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37474
 4; 749.7; 01-MAY-2009 02:19:08; Dark ; 58.5; 40; The Sco ; 1.86; 7100;occ; 117; 0;37475
 5; 855.0; 01-MAY-2009 02:20:53; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37475
 6; 1041.9; 01-MAY-2009 02:24:00; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37475
 7; 1266.8; 01-MAY-2009 02:27:45; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37475
 8; 1401.0; 01-MAY-2009 02:29:59; Dark ; 56.5; 80; 7Del Sco ; 2.32; 30000;occ; 113; 0;37475
 9; 1590.9; 01-MAY-2009 02:33:09; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37475
 10; 1728.2; 01-MAY-2009 02:35:26; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;37475
 11; 2264.0; 01-MAY-2009 02:44:22; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;37475
 12; 2454.5; 01-MAY-2009 02:47:33; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37475
 13; 2635.1; 01-MAY-2009 02:50:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37475
 14; 3209.1; 01-MAY-2009 03:00:07; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37475
 15; 3827.8; 01-MAY-2009 03:10:26; Bright; 51.5; 89; 5Alp Cep ; 2.45; 8000;occ; 103; 0;37475

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 2; -1001.3; 01-MAY-2009 03:30:33; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37475
 3; -855.6; 01-MAY-2009 03:32:58; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37475
 4; -631.1; 01-MAY-2009 03:36:43; Dark ; 58.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 117; 0;37475
 5; -474.5; 01-MAY-2009 03:39:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37475
 6; 751.0; 01-MAY-2009 03:59:45; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;37476
 7; 855.7; 01-MAY-2009 04:01:30; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37476
 8; 1042.8; 01-MAY-2009 04:04:37; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;37476
 9; 1267.4; 01-MAY-2009 04:08:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37476
 10; 1401.5; 01-MAY-2009 04:10:36; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37476
 11; 1590.8; 01-MAY-2009 04:13:45; Bright; 52.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 105; 0;37476
 12; 1728.3; 01-MAY-2009 04:16:02; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;37476
 13; 2263.9; 01-MAY-2009 04:24:58; Bright; 40.5; 3; 16Alp Boo ; -0.05; 4250;occ; 81; 0;37476
 14; 2454.3; 01-MAY-2009 04:28:08; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37476
 15; 2634.9; 01-MAY-2009 04:31:09; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37476
 16; 3208.5; 01-MAY-2009 04:40:43; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;37476

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 4; -854.7; 01-MAY-2009 05:13:35; Dark ; 49.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 98; 0;37476
 5; -629.8; 01-MAY-2009 05:17:20; Dark ; 63.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 127; 0;37476
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 8; 856.7; 01-MAY-2009 05:42:07; Dark ; 62.5; 25; 35Lam Sco ; 1.62; 28000;occ; 125; 0;37477
 9; 1043.4; 01-MAY-2009 05:45:13; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 0;37477
 10; 1267.9; 01-MAY-2009 05:48:58; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37477
 11; 1401.8; 01-MAY-2009 05:51:12; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37477
 12; 1591.3; 01-MAY-2009 05:54:21; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37477
 13; 1728.1; 01-MAY-2009 05:56:38; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37477
 14; 2263.7; 01-MAY-2009 06:05:34; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37477
 15; 2453.6; 01-MAY-2009 06:08:44; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37477
 16; 2634.5; 01-MAY-2009 06:11:45; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37477

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3; 1272.3; 01-MAY-2009 20:54:26; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37486
4; 1404.7; 01-MAY-2009 20:56:38; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37486
5; 1592.1; 01-MAY-2009 20:59:46; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37486
6; 1727.8; 01-MAY-2009 21:02:01; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37486
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9; 2630.2; 01-MAY-2009 21:17:04; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37486
10; 3202.2; 01-MAY-2009 21:26:36; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37486
11; 3824.5; 01-MAY-2009 21:36:58; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37486
12; 4511.0; 01-MAY-2009 21:48:25; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37486
13; 5044.1; 01-MAY-2009 21:57:18; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;37486
14; 5189.4; 01-MAY-2009 21:59:43; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;37486
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2; -617.2; 01-MAY-2009 22:03:32; Dark ; 54.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 109; 0;37486
3; -461.7; 01-MAY-2009 22:06:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37486
4; 760.0; 01-MAY-2009 22:26:29; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;37487
5; 866.0; 01-MAY-2009 22:28:15; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37487
6; 1050.2; 01-MAY-2009 22:31:20; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37487
7; 1272.9; 01-MAY-2009 22:35:02; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37487
8; 1405.0; 01-MAY-2009 22:37:14; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37487
9; 1592.3; 01-MAY-2009 22:40:22; Bright; 41.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 82; 0;37487
10; 1727.9; 01-MAY-2009 22:42:37; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37487
11; 2260.8; 01-MAY-2009 22:51:30; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37487
12; 2448.5; 01-MAY-2009 22:54:38; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37487
13; 2629.7; 01-MAY-2009 22:57:39; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37487
14; 3201.4; 01-MAY-2009 23:07:11; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37487
15; 3824.1; 01-MAY-2009 23:17:34; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37487
16; 4511.0; 01-MAY-2009 23:29:00; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37487
17; 5045.0; 01-MAY-2009 23:37:54; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;37487
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1; -1488.2; 05-MAY-2009 02:56:34; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37532
2; -805.5; 05-MAY-2009 03:07:57; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37532
3; -403.8; 05-MAY-2009 03:14:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37532
4; 798.7; 05-MAY-2009 03:34:41; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37533
5; 907.5; 05-MAY-2009 03:36:30; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37533
6; 1081.0; 05-MAY-2009 03:39:23; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37533
7; 1293.7; 05-MAY-2009 03:42:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37533
8; 1417.5; 05-MAY-2009 03:45:00; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37533
9; 1726.6; 05-MAY-2009 03:50:09; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37533
10; 2427.7; 05-MAY-2009 04:01:50; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37533
11; 2528.5; 05-MAY-2009 04:03:31; Bright; 48.0; 67; 5Alp CrB ; 2.22; 11000;occ; 96; 0;37533
12; 2611.4; 05-MAY-2009 04:04:54; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37533
13; 3174.0; 05-MAY-2009 04:14:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37533
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1; -2226.7; 05-MAY-2009 04:24:52; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37533
2; -1488.0; 05-MAY-2009 04:37:10; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37533
3; -804.6; 05-MAY-2009 04:48:34; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37533
4; -402.5; 05-MAY-2009 04:55:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37533

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5; 799.7; 05-MAY-2009 05:15:18; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;37534
6; 909.0; 05-MAY-2009 05:17:07; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37534
7; 1081.6; 05-MAY-2009 05:20:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37534
8; 1294.2; 05-MAY-2009 05:23:32; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37534
9; 1417.7; 05-MAY-2009 05:25:36; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;37534
10; 1725.5; 05-MAY-2009 05:30:44; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;37534
11; 2427.5; 05-MAY-2009 05:42:26; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37534
12; 2527.7; 05-MAY-2009 05:44:06; Bright; 50.0; 67; 5Alp CrB ; 2.22; 11000;occ; 100; 0;37534
13; 2611.0; 05-MAY-2009 05:45:29; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37534
14; 3173.5; 05-MAY-2009 05:54:52; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37534

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1; 961.4; 05-MAY-2009 20:23:23; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 90;37543
2; 1087.2; 05-MAY-2009 20:25:29; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;37543
3; 1298.3; 05-MAY-2009 20:29:00; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37543
4; 1420.4; 05-MAY-2009 20:31:02; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37543
5; 1726.0; 05-MAY-2009 20:36:08; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37543
6; 2423.5; 05-MAY-2009 20:47:45; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37543
7; 2607.5; 05-MAY-2009 20:50:49; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37543
8; 3168.4; 05-MAY-2009 21:00:10; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37543
9; 3805.9; 05-MAY-2009 21:10:48; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37543
10; 4549.7; 05-MAY-2009 21:23:11; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37543
11; 4798.4; 05-MAY-2009 21:27:20; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37543
12; 5241.3; 05-MAY-2009 21:34:43; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37543

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2; -388.9; 05-MAY-2009 21:41:29; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37543
3; 807.6; 05-MAY-2009 22:01:25; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37544
4; 917.3; 05-MAY-2009 22:03:15; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37544
5; 1087.9; 05-MAY-2009 22:06:06; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37544
6; 1298.7; 05-MAY-2009 22:09:36; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37544
7; 1420.7; 05-MAY-2009 22:11:38; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37544
8; 1725.8; 05-MAY-2009 22:16:43; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37544
9; 2423.3; 05-MAY-2009 22:28:21; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37544
10; 2607.6; 05-MAY-2009 22:31:25; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37544
11; 3167.4; 05-MAY-2009 22:40:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37544
12; 3805.8; 05-MAY-2009 22:51:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37544
13; 4549.9; 05-MAY-2009 23:03:48; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37544
14; 4798.6; 05-MAY-2009 23:07:56; Dark ; 34.0; 90; 54Alp Peg ; 2.49; 11000;occ; 68; 0;37544

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1; -387.6; 05-MAY-2009 23:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37544
2; 808.3; 05-MAY-2009 23:42:02; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37545
3; 917.8; 05-MAY-2009 23:43:51; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37545
4; 1088.5; 05-MAY-2009 23:46:42; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37545
5; 1299.2; 05-MAY-2009 23:50:13; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;37545
6; 1420.9; 05-MAY-2009 23:52:14; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37545
7; 1725.8; 05-MAY-2009 23:57:19; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37545
8; 2422.7; 06-MAY-2009 00:08:56; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37545
9; 2610.2; 06-MAY-2009 00:12:04; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37545
10; 3166.9; 06-MAY-2009 00:21:20; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37545
11; 3805.5; 06-MAY-2009 00:31:59; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37545
12; 4550.3; 06-MAY-2009 00:44:24; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37545
13; 4799.0; 06-MAY-2009 00:48:33; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37545

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1; -2226.7; 05-MAY-2009 06:05:28; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37534
2; -1487.7; 05-MAY-2009 06:17:47; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37534
3; -803.7; 05-MAY-2009 06:29:11; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37534
4; -401.1; 05-MAY-2009 06:35:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37534
5; 800.6; 05-MAY-2009 06:55:55; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;37535
6; 909.4; 05-MAY-2009 06:57:44; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37535
7; 1082.3; 05-MAY-2009 07:00:37; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37535
8; 1294.7; 05-MAY-2009 07:04:09; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37535
9; 1418.4; 05-MAY-2009 07:06:13; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
10; 1726.1; 05-MAY-2009 07:11:20; Bright; 39.0; 104; 27Bet Lib ; 2.61; 13100;occ; 78; 0;37535

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2; 2427.0; 05-MAY-2009 07:23:01; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;37535
3; 2526.8; 05-MAY-2009 07:24:41; Bright; 52.5; 67; 5Alp CrB ; 2.22; 11000;occ; 105; 0;37535
4; 2610.6; 05-MAY-2009 07:26:05; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37535

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5; 3172.8; 05-MAY-2009 07:35:27; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37535
6; 3808.9; 05-MAY-2009 07:46:03; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37535
7; 4548.4; 05-MAY-2009 07:58:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37535
8; 5233.5; 05-MAY-2009 08:09:48; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37535
9; 5636.2; 05-MAY-2009 08:16:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37535
10; 6837.4; 05-MAY-2009 08:36:32; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37535
11; 6946.2; 05-MAY-2009 08:38:20; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37535
12; 7118.9; 05-MAY-2009 08:41:13; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37535
13; 7331.1; 05-MAY-2009 08:44:45; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37535
14; 7454.7; 05-MAY-2009 08:46:49; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
15; 7761.8; 05-MAY-2009 08:51:56; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37535
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2; 2610.2; 05-MAY-2009 09:06:40; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;37536
3; 3172.2; 05-MAY-2009 09:16:02; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;37536
4; 3808.2; 05-MAY-2009 09:26:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37536
5; 4548.6; 05-MAY-2009 09:38:59; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37536
6; 4795.8; 05-MAY-2009 09:43:06; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37536
7; 5234.4; 05-MAY-2009 09:50:25; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37536
8; 5637.5; 05-MAY-2009 09:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37536
9; 6838.1; 05-MAY-2009 10:17:08; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37536
10; 6947.2; 05-MAY-2009 10:18:57; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37536
11; 7119.6; 05-MAY-2009 10:21:50; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37536
12; 7331.7; 05-MAY-2009 10:25:22; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37536
13; 7454.9; 05-MAY-2009 10:27:25; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37536
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090505_103232_000057752078_00409_37537_3864.N1
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2; 2426.0; 05-MAY-2009 10:44:12; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;37537
3; 2610.1; 05-MAY-2009 10:47:16; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37537
4; 3171.8; 05-MAY-2009 10:56:38; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37537
5; 3807.9; 05-MAY-2009 11:07:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37537
6; 4548.7; 05-MAY-2009 11:19:35; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37537
7; 4796.1; 05-MAY-2009 11:23:42; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37537
8; 5235.1; 05-MAY-2009 11:31:01; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37537
9; 5638.8; 05-MAY-2009 11:37:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37537
10; 6839.4; 05-MAY-2009 11:57:45; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37537
11; 6948.2; 05-MAY-2009 11:59:34; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37537
12; 7120.2; 05-MAY-2009 12:02:26; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37537
13; 7332.1; 05-MAY-2009 12:05:58; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37537
14; 7455.2; 05-MAY-2009 12:08:01; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37537
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2; 2425.8; 05-MAY-2009 12:24:48; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;37538
3; 2609.3; 05-MAY-2009 12:27:51; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37538
4; 3171.1; 05-MAY-2009 12:37:13; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;37538
5; 3808.4; 05-MAY-2009 12:47:50; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;37538
6; 4548.9; 05-MAY-2009 13:00:11; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37538
7; 4796.6; 05-MAY-2009 13:04:19; Dark ; 33.5; 90; 54Alp Peg ; 2.49; 11000;occ; 67; 0;37538
8; 5236.3; 05-MAY-2009 13:11:38; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37538
9; 5640.1; 05-MAY-2009 13:18:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37538
10; 6840.0; 05-MAY-2009 13:38:22; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;37538
11; 6949.3; 05-MAY-2009 13:40:11; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37538
12; 7120.8; 05-MAY-2009 13:43:03; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37538
13; 7332.5; 05-MAY-2009 13:46:34; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37538
14; 7455.3; 05-MAY-2009 13:48:37; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37538
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2; 2425.3; 05-MAY-2009 14:05:23; Bright; 40.0; 83; ; 2.38; 11000;occ; 80; 0;37539
3; 2609.3; 05-MAY-2009 14:08:27; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37539
4; 3807.7; 05-MAY-2009 14:28:26; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37539
5; 4549.2; 05-MAY-2009 14:40:47; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37539
6; 4797.2; 05-MAY-2009 14:44:55; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37539
7; 5237.0; 05-MAY-2009 14:52:15; Dark ; 48.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 96; 0;37539
8; 5641.6; 05-MAY-2009 14:58:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37539
9; 6840.5; 05-MAY-2009 15:18:58; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37539
10; 6949.8; 05-MAY-2009 15:20:48; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37539
11; 7121.3; 05-MAY-2009 15:23:39; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;37539
12; 7332.9; 05-MAY-2009 15:27:11; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37539

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2; 1725.6; 05-MAY-2009 15:34:19; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37540
3; 2424.6; 05-MAY-2009 15:45:58; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37540
4; 2608.5; 05-MAY-2009 15:49:02; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37540
5; 3170.6; 05-MAY-2009 15:58:24; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37540
6; 3806.9; 05-MAY-2009 16:09:01; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37540
7; 4549.5; 05-MAY-2009 16:21:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37540
8; 4797.3; 05-MAY-2009 16:25:31; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37540
9; 5238.0; 05-MAY-2009 16:32:52; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37540
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5; 919.8; 06-MAY-2009 03:05:05; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37547
6; 1089.6; 06-MAY-2009 03:07:55; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37547
7; 1299.7; 06-MAY-2009 03:11:25; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37547
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9; 2417.3; 06-MAY-2009 23:37:14; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37559

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3; 3146.4; 08-MAY-2009 14:23:09; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37582
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8; 5283.8; 08-MAY-2009 16:39:23; Dark ; 51.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 102; 0;37583
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4; 2546.7; 29-MAY-2009 14:53:25; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;37883
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4; 2546.2; 29-MAY-2009 16:34:01; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37884
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 5; 2334.8; 29-MAY-2009 19:51:41; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;37886
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5; 2980.5; 31-MAY-2009 15:38:01; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;37912
6; 3631.9; 31-MAY-2009 15:48:53; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37912
7; 3934.9; 31-MAY-2009 15:53:56; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37912
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