

GOMOS Daily Report 24-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	28MAY2009 04:38:55
Data source version	GOMOS/5.00
Start time of products	24MAY2009 00:04:25
Stop time of products	24MAY2009 20:28:32
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

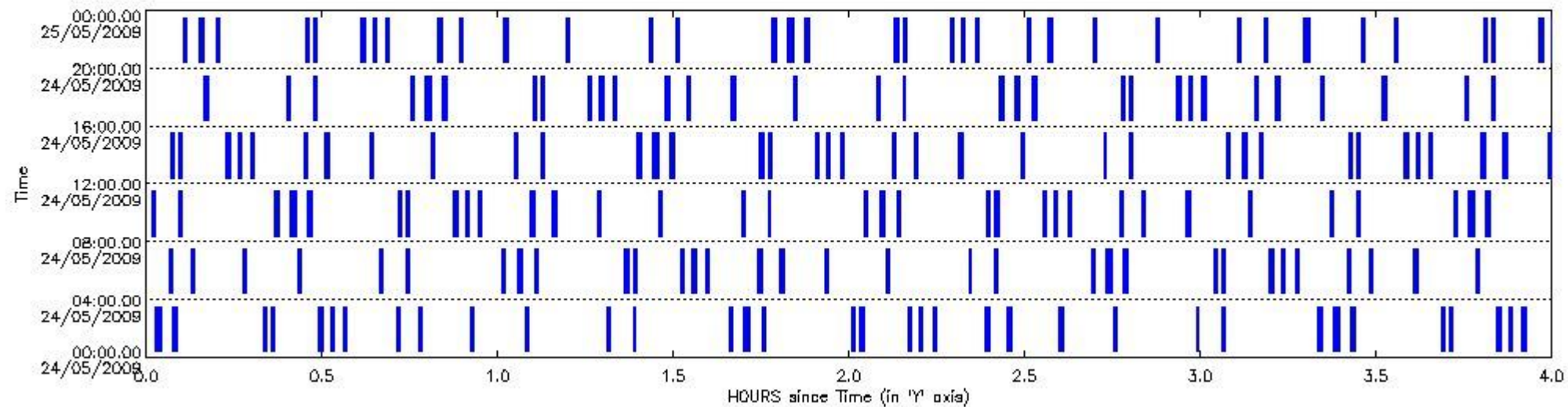
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

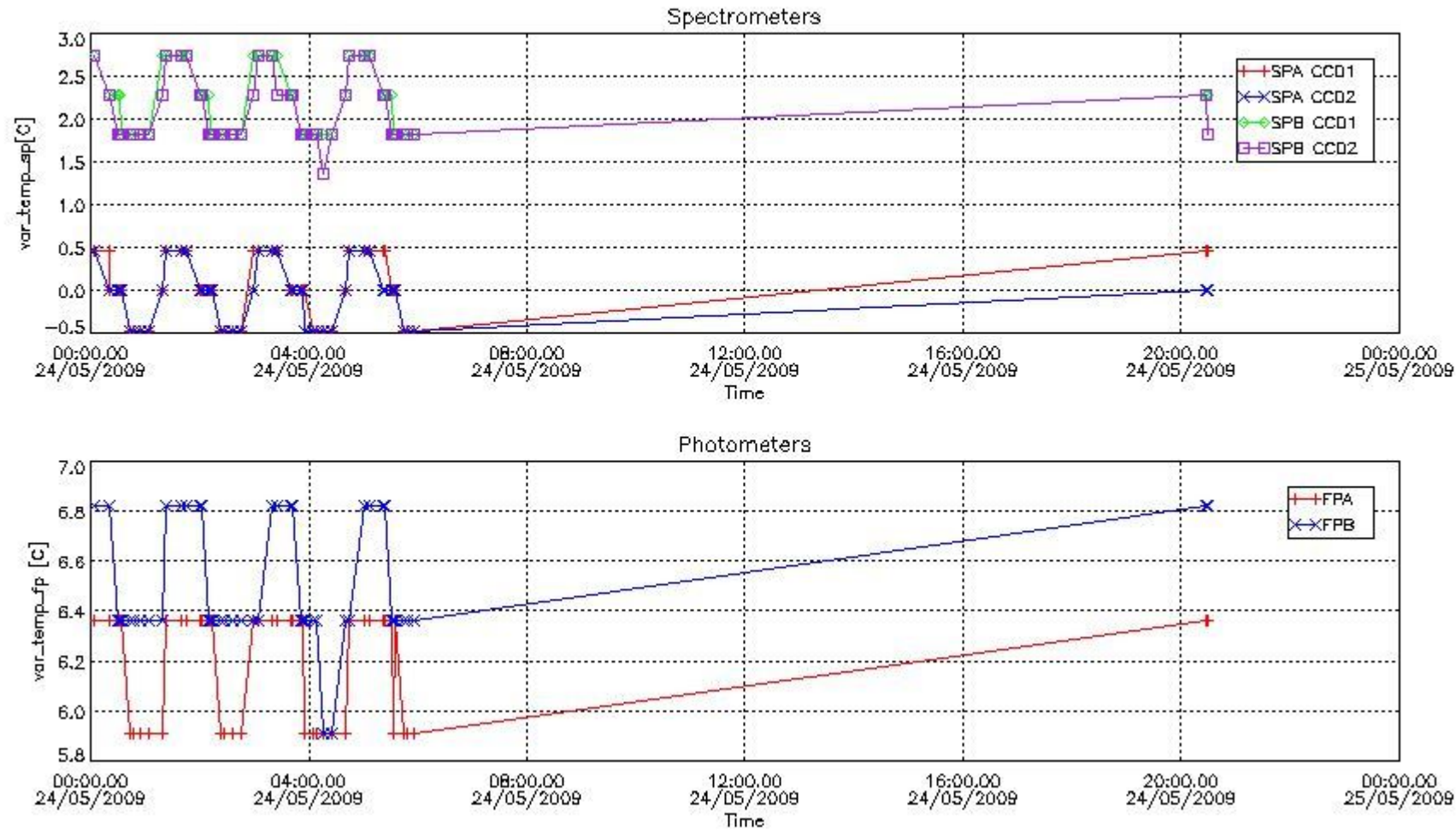
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090524_000425_000000432079_00174_37803_8979.N1	24-MAY-2009 00:04:25	Dark	42.500	172	Gam Gru	3.0030	13100.	85	37803	No
2	GOM_TRA_1PNPDE20090524_001953_000000372079_00174_37803_8980.N1	24-MAY-2009 00:19:53	Straylight	36.500	178	lot1Sco	3.0220	6550.0	73	37803	No
3	GOM_TRA_1PNPDE20090524_002115_000000372079_00174_37803_8981.N1	24-MAY-2009 00:21:15	Straylight	36.500	25	35Lam Sco	1.6200	28000.	73	37803	No
4	GOM_TRA_1PNPDE20090524_002925_000000412079_00174_37803_8982.N1	24-MAY-2009 00:29:25	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	37803	No
5	GOM_TRA_1PNPDE20090524_003125_000000382079_00174_37803_8983.N1	24-MAY-2009 00:31:25	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	37803	No
6	GOM_TRA_1PNPDE20090524_003343_000000362079_00174_37803_8984.N1	24-MAY-2009 00:33:43	Bright	35.500	120	1Del Oph	2.7340	3200.0	71	37803	No
7	GOM_TRA_1PNPDE20090524_004241_000000412079_00174_37803_8985.N1	24-MAY-2009 00:42:41	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	37803	No
8	GOM_TRA_1PNPDE20090524_004622_000000422079_00174_37803_8986.N1	24-MAY-2009 00:46:22	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	37803	No
9	GOM_TRA_1PNPDE20090524_005517_000000432079_00174_37803_8987.N1	24-MAY-2009 00:55:17	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	37803	No
10	GOM_TRA_1PNPDE20090524_010437_000000342079_00174_37803_8988.N1	24-MAY-2009 01:04:37	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	37803	No
11	GOM_TRA_1PNPDE20090524_011838_000000292079_00174_37803_8989.N1	24-MAY-2009 01:18:38	Twilight_stray	28.500	58	21Alp And	2.0730	11000.	57	37803	No
12	GOM_TRA_1PNPDE20090524_012307_000000282079_00174_37803_8990.N1	24-MAY-2009 01:23:07	Dark	28.000	140	88Gam Peg	2.8340	26000.	56	37803	No

13	GOM_TRA_1PNPDE20090524_013929_000000392079_00174_37803_9111.N1	24-MAY-2009 01:39:29	Dark	38.500	18	24Alp PsA	1.1660	9700.0	77	37803	No
14	GOM_TRA_1PNPDE20090524_014502_000000432079_00175_37804_9112.N1	24-MAY-2009 01:45:02	Dark	42.500	172	Gam Gru	3.0030	13100.	85	37804	No
15	GOM_TRA_1PNPDE20090524_020029_000000362079_00175_37804_9113.N1	24-MAY-2009 02:00:29	Straylight	36.000	178	lot1Sco	3.0220	6550.0	72	37804	No
16	GOM_TRA_1PNPDE20090524_020152_000000372079_00175_37804_9114.N1	24-MAY-2009 02:01:52	Straylight	36.500	25	35Lam Sco	1.6200	28000.	73	37804	No
17	GOM_TRA_1PNPDE20090524_021000_000000412079_00175_37804_9115.N1	24-MAY-2009 02:10:00	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	37804	No
18	GOM_TRA_1PNPDE20090524_021201_000000372079_00175_37804_9116.N1	24-MAY-2009 02:12:01	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	37804	No
19	GOM_TRA_1PNPDE20090524_021419_000000362079_00175_37804_9117.N1	24-MAY-2009 02:14:19	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	37804	No
20	GOM_TRA_1PNPDE20090524_022316_000000412079_00175_37804_9118.N1	24-MAY-2009 02:23:16	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	37804	No
21	GOM_TRA_1PNPDE20090524_022658_000000422079_00175_37804_9119.N1	24-MAY-2009 02:26:58	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	37804	No
22	GOM_TRA_1PNPDE20090524_023552_000000432079_00175_37804_9120.N1	24-MAY-2009 02:35:52	Bright	43.000	69	33Gam Dra	2.2310	3800.0	86	37804	No
23	GOM_TRA_1PNPDE20090524_024512_000000352079_00175_37804_9121.N1	24-MAY-2009 02:45:12	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	37804	No
24	GOM_TRA_1PNPDE20090524_025914_000000292079_00175_37804_9264.N1	24-MAY-2009 02:59:14	Twilight_stray	29.000	58	21Alp And	2.0730	11000.	58	37804	No
25	GOM_TRA_1PNPDE20090524_030343_000000302079_00175_37804_9265.N1	24-MAY-2009 03:03:43	Dark	29.500	140	88Gam Peg	2.8340	26000.	59	37804	No
26	GOM_TRA_1PNPDE20090524_032006_000000402079_00175_37804_9266.N1	24-MAY-2009 03:20:06	Dark	39.500	18	24Alp PsA	1.1660	9700.0	79	37804	No
27	GOM_TRA_1PNPDE20090524_032539_000000432079_00176_37805_9267.N1	24-MAY-2009 03:25:39	Dark	43.000	172	Gam Gru	3.0030	13100.	86	37805	No
28	GOM_TRA_1PNPDE20090524_034106_000000372079_00176_37805_9268.N1	24-MAY-2009 03:41:06	Straylight	36.500	178	lot1Sco	3.0220	6550.0	73	37805	No
29	GOM_TRA_1PNPDE20090524_034228_000000372079_00176_37805_9269.N1	24-MAY-2009 03:42:28	Straylight	37.000	25	35Lam Sco	1.6200	28000.	74	37805	No
30	GOM_TRA_1PNPDE20090524_035037_000000422079_00176_37805_9270.N1	24-MAY-2009 03:50:37	Bright	41.500	86	35Eta Oph	2.4300	10200.	83	37805	No
31	GOM_TRA_1PNPDE20090524_035237_000000382079_00176_37805_9271.N1	24-MAY-2009 03:52:37	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	37805	No
32	GOM_TRA_1PNPDE20090524_035455_000000362079_00176_37805_9272.N1	24-MAY-2009 03:54:55	Bright	35.500	120	1Del Oph	2.7340	3200.0	71	37805	No
33	GOM_TRA_1PNPDE20090524_040352_000000412079_00176_37805_9273.N1	24-MAY-2009 04:03:52	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	37805	No
34	GOM_TRA_1PNPDE20090524_040733_000000422079_00176_37805_9274.N1	24-MAY-2009 04:07:33	Bright	42.000	133	40Zet Her	2.8070	6000.0	84	37805	No
35	GOM_TRA_1PNPDE20090524_041627_000000422079_00176_37805_9275.N1	24-MAY-2009 04:16:27	Bright	42.000	69	33Gam Dra	2.2310	3800.0	84	37805	No
36	GOM_TRA_1PNPDE20090524_042548_000000352079_00176_37805_9487.N1	24-MAY-2009 04:25:48	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	37805	No
37	GOM_TRA_1PNPDE20090524_043951_000000292079_00176_37805_9488.N1	24-MAY-2009 04:39:51	Twilight_stray	28.500	58	21Alp And	2.0730	11000.	57	37805	No
38	GOM_TRA_1PNPDE20090524_044420_000000292079_00176_37805_9489.N1	24-MAY-2009 04:44:20	Dark	29.000	140	88Gam Peg	2.8340	26000.	58	37805	No
39	GOM_TRA_1PNPDE20090524_050044_000000382079_00176_37805_9490.N1	24-MAY-2009 05:00:44	Dark	38.000	18	24Alp PsA	1.1660	9700.0	76	37805	No
40	GOM_TRA_1PNPDE20090524_050617_000000422079_00177_37806_9491.N1	24-MAY-2009 05:06:17	Dark	42.000	172	Gam Gru	3.0030	13100.	84	37806	No
41	GOM_TRA_1PNPDE20090524_052142_000000362079_00177_37806_9492.N1	24-MAY-2009 05:21:42	Straylight	36.000	178	lot1Sco	3.0220	6550.0	72	37806	No
42	GOM_TRA_1PNPDE20090524_052304_000000362079_00177_37806_9493.N1	24-MAY-2009 05:23:04	Straylight	36.000	25	35Lam Sco	1.6200	28000.	72	37806	No
43	GOM_TRA_1PNPDE20090524_053113_000000402079_00177_37806_9494.N1	24-MAY-2009 05:31:13	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	37806	No
44	GOM_TRA_1PNPDE20090524_053313_000000362079_00177_37806_9495.N1	24-MAY-2009 05:33:13	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	37806	No
45	GOM_TRA_1PNPDE20090524_053531_000000352079_00177_37806_9496.N1	24-MAY-2009 05:35:31	Bright	34.500	120	1Del Oph	2.7340	3200.0	69	37806	No
46	GOM_TRA_1PNPDE20090524_054427_000000402079_00177_37806_9497.N1	24-MAY-2009 05:44:27	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	37806	No
47	GOM_TRA_1PNPDE20090524_054808_000000412079_00177_37806_9498.N1	24-MAY-2009 05:48:08	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	37806	No
48	GOM_TRA_1PNPDE20090524_055549_000000392079_00177_37806_9499.N1	24-MAY-2009 05:55:49	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	37806	No
49	GOM_TRA_1PNPDE20090524_202711_000000362079_00186_37815_9943.N1	24-MAY-2009 20:27:11	Straylight	35.500	178	lot1Sco	3.0220	6550.0	71	37815	No
50	GOM_TRA_1PNPDE20090524_202832_000000362079_00186_37815_9944.N1	24-MAY-2009 20:28:32	Straylight	35.500	25	35Lam Sco	1.6200	28000.	71	37815	No

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



4. Overview of dark signal processing per product

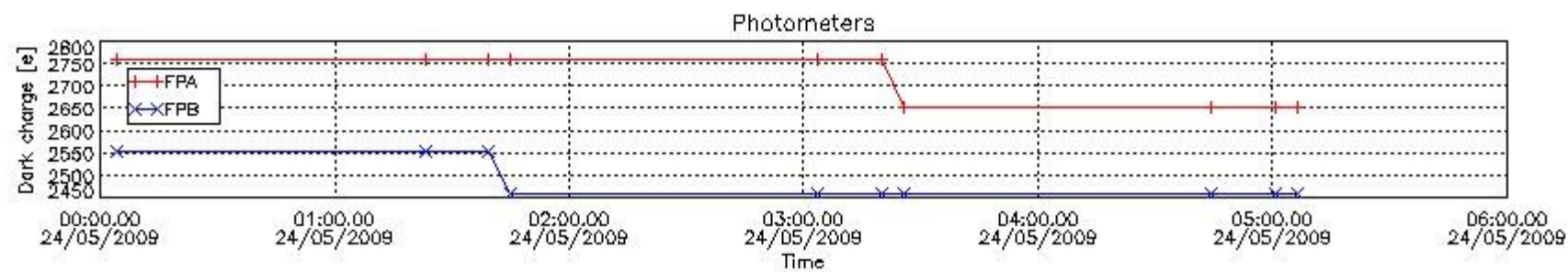
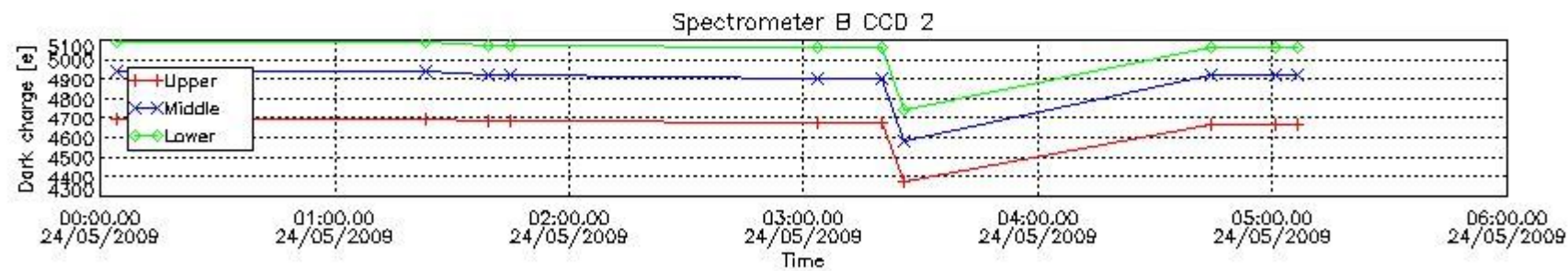
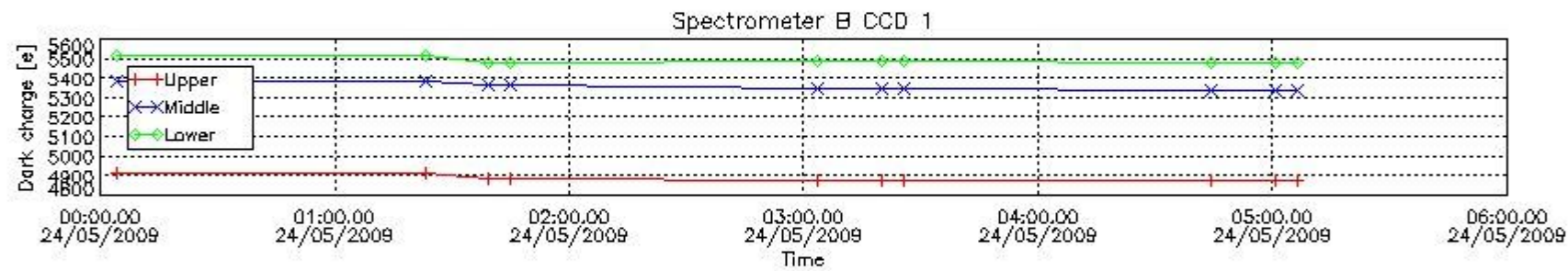
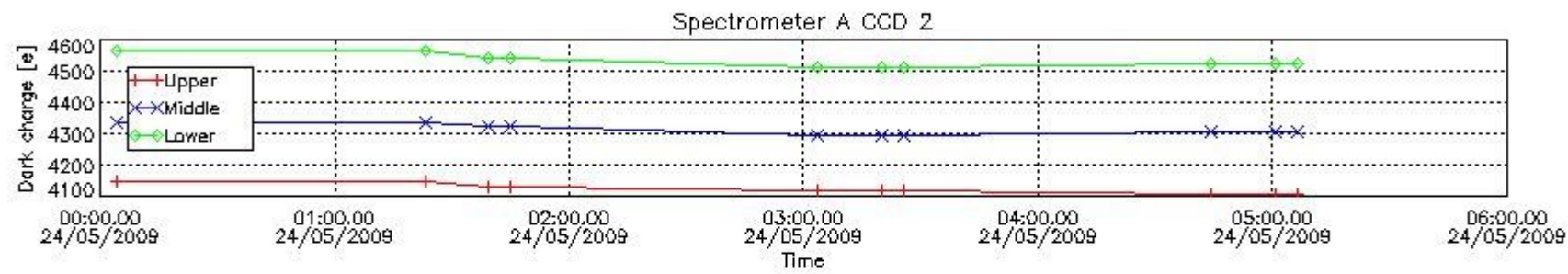
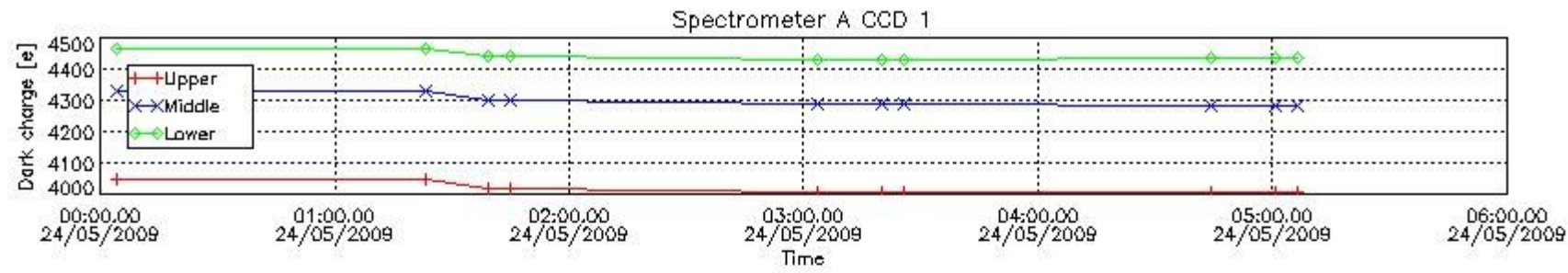
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090524_202711_000000362079_00186_37815_9943.N1	DC map used
GOM_TRA_1PNPDE20090524_202832_000000362079_00186_37815_9944.N1	DC map used

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



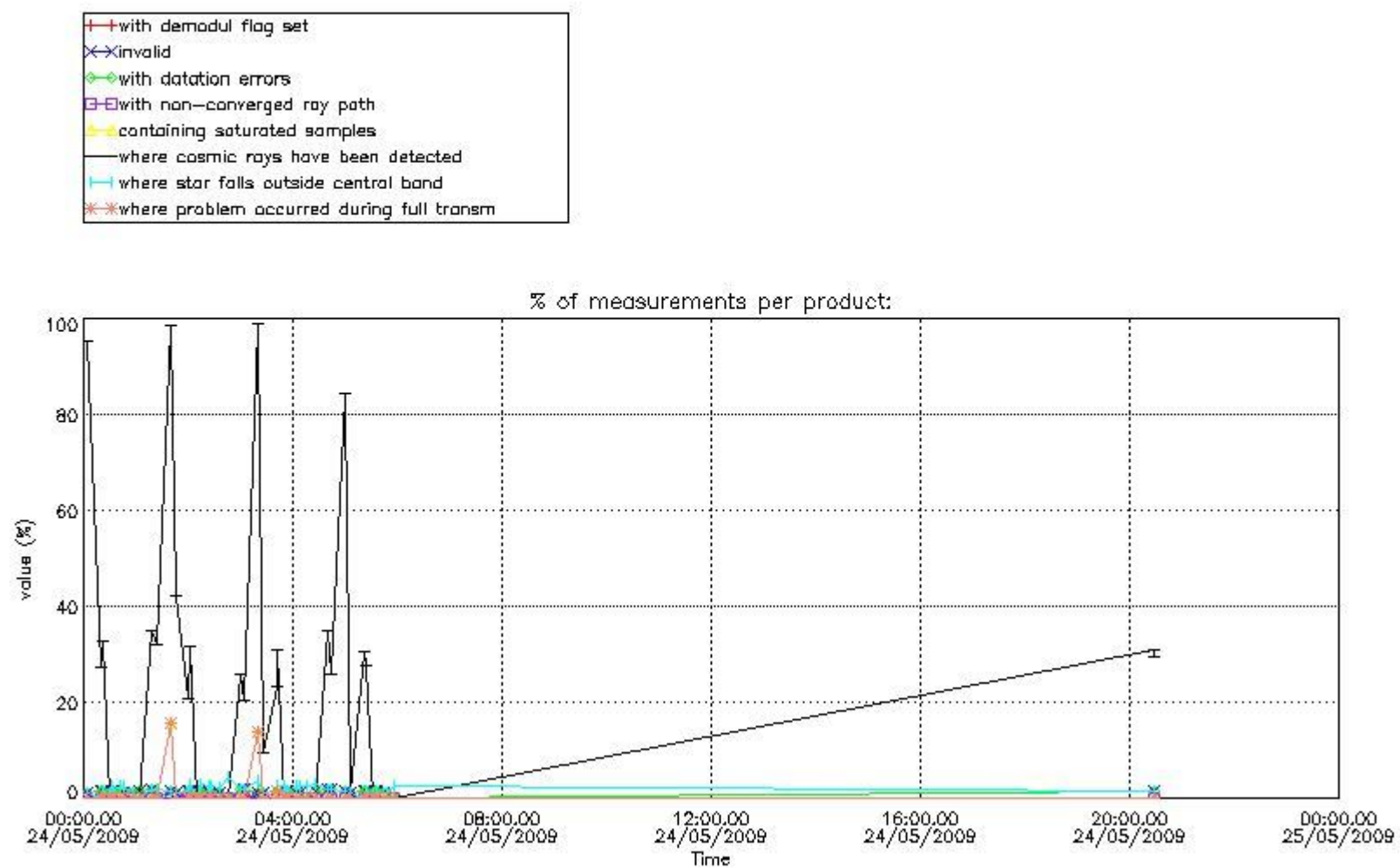
5. Demodulation flag and quality information monitoring

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

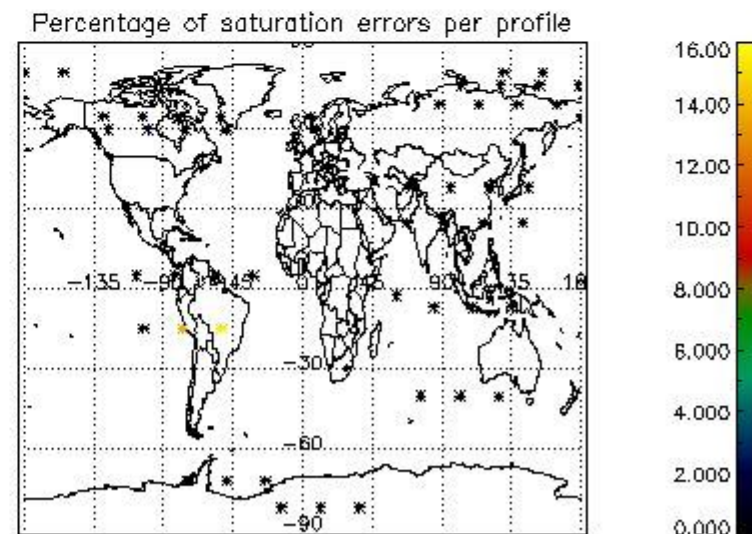
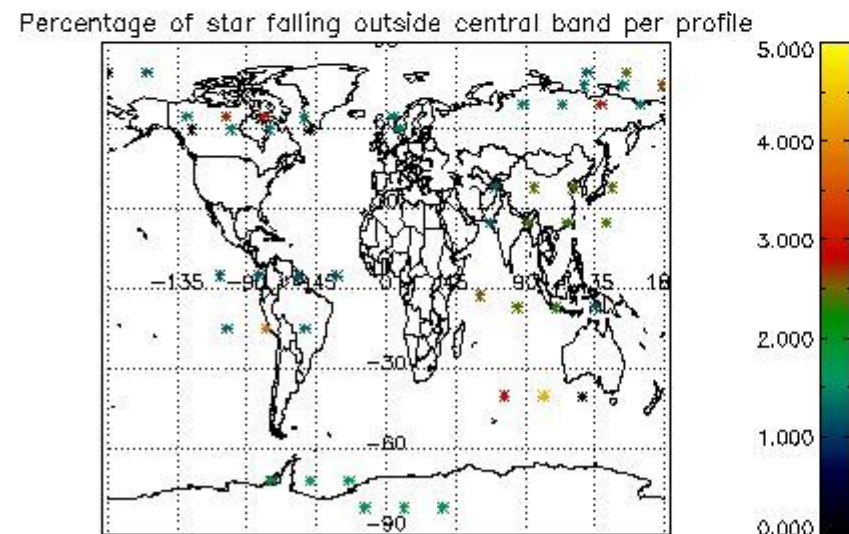
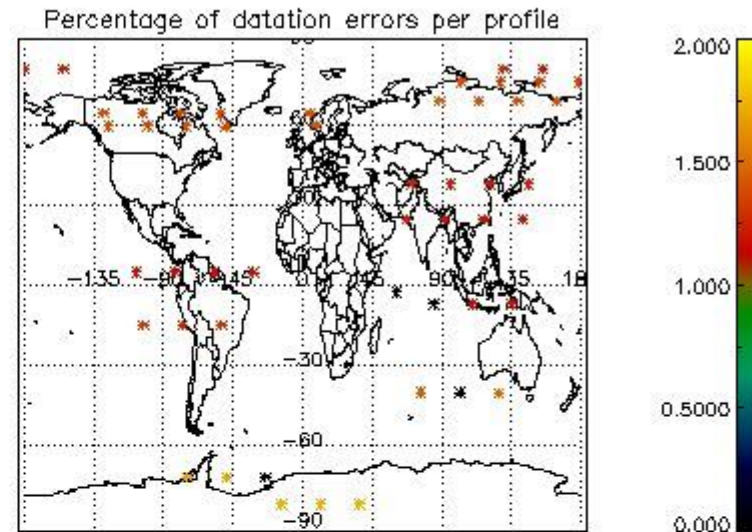
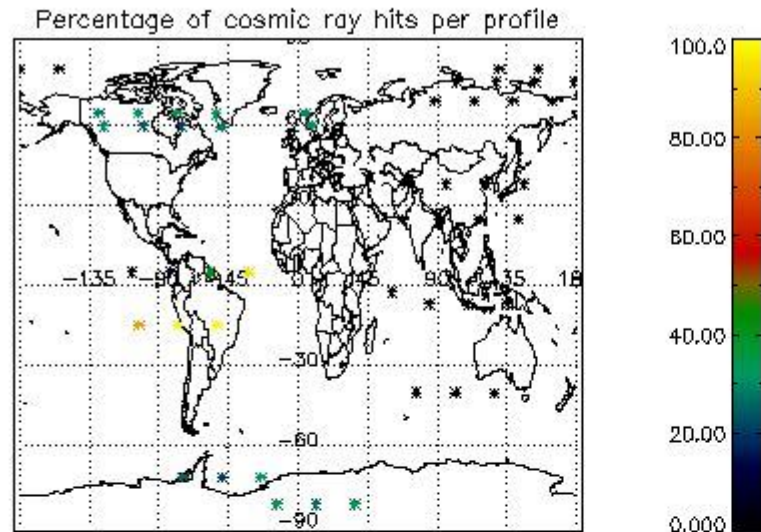
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.0000 %
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)



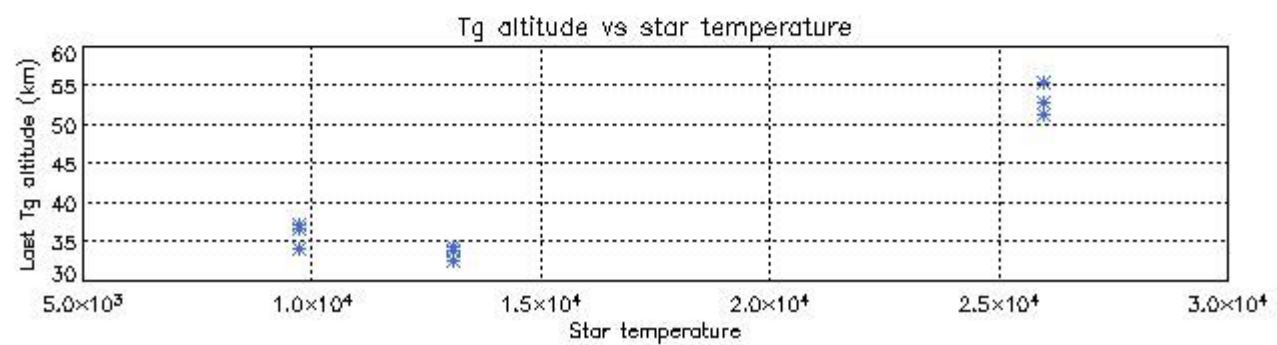
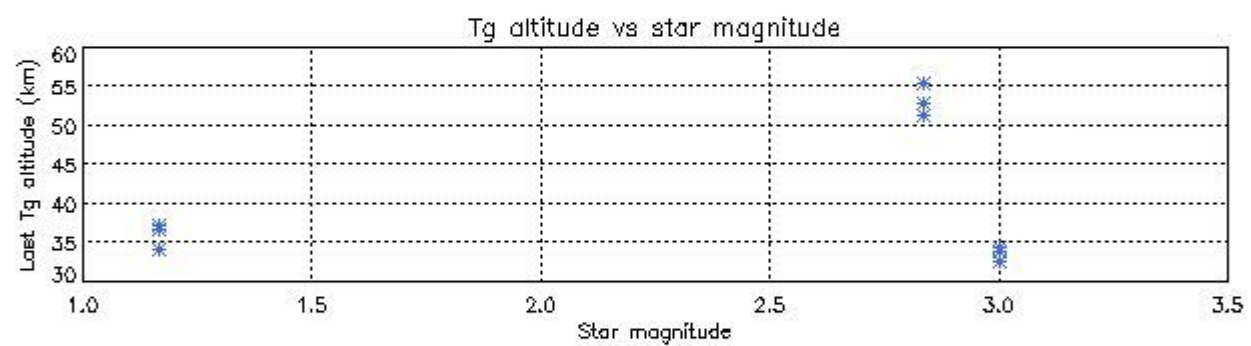
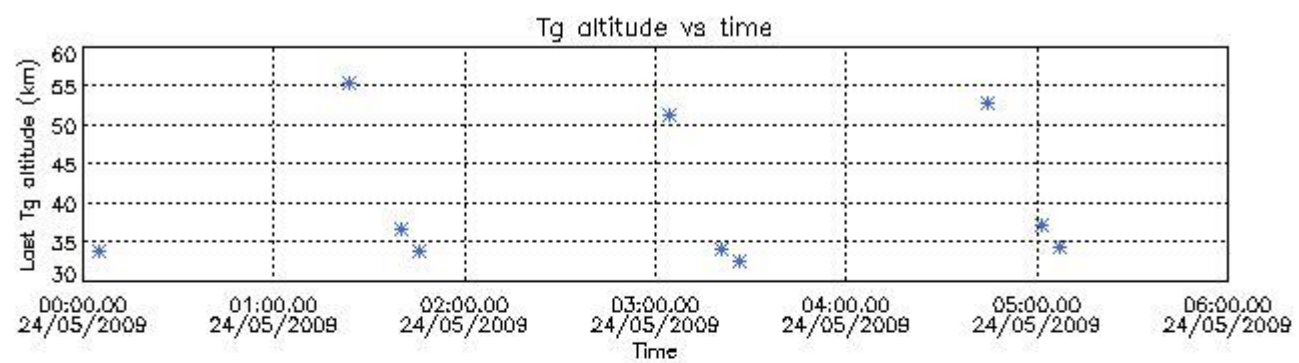
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	40.174	37.671	NaN
St. deviation:	9.1094	3.9347	NaN
Maximum:	55.297	47.359	NaN
Minimum:	32.565	32.367	NaN
Number of data:	10.000	27.000	NaN

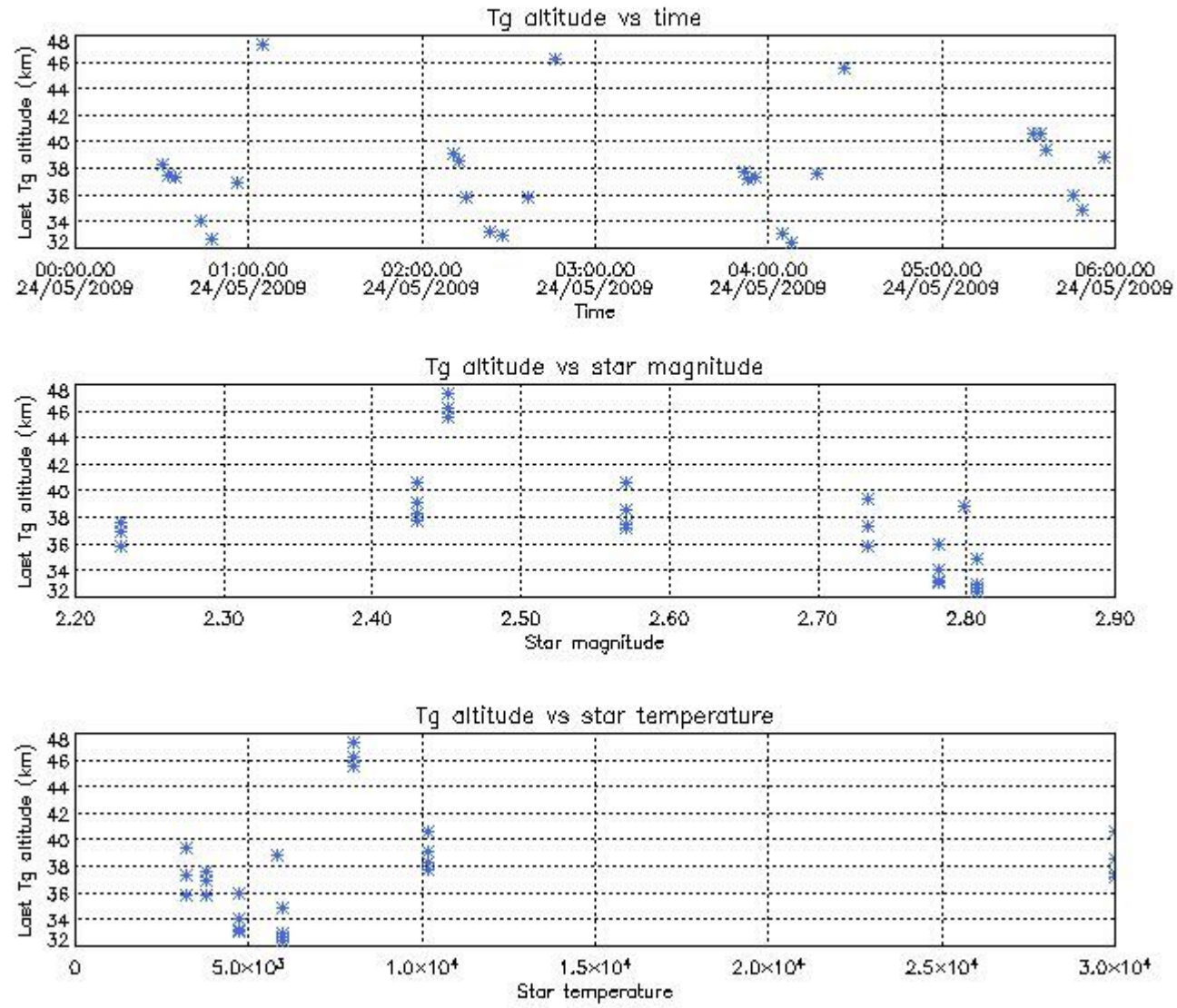
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

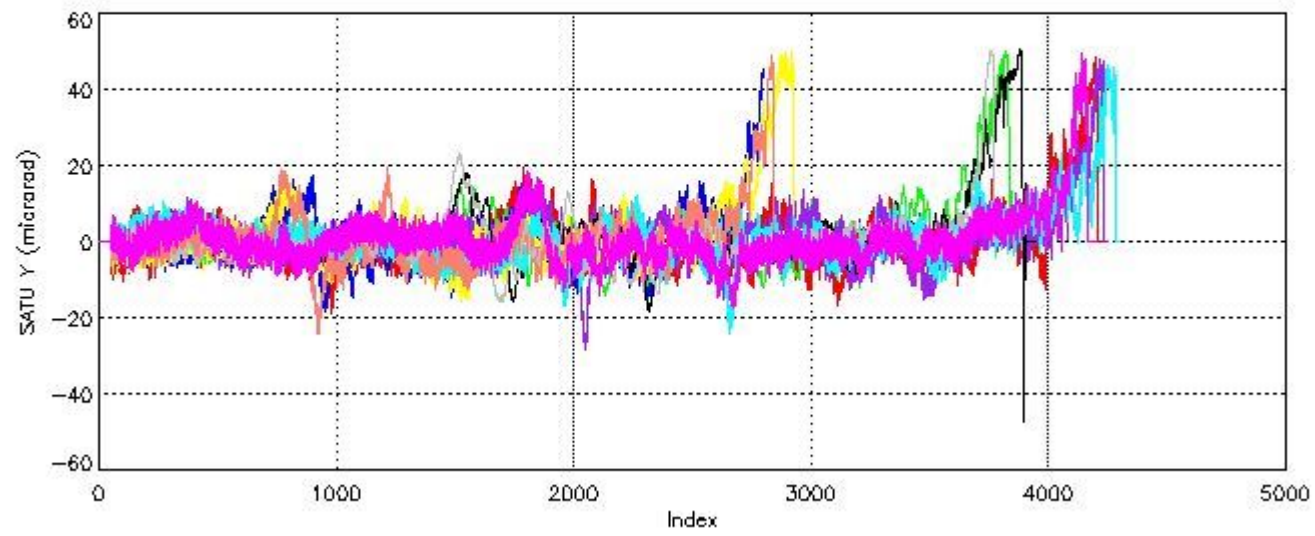
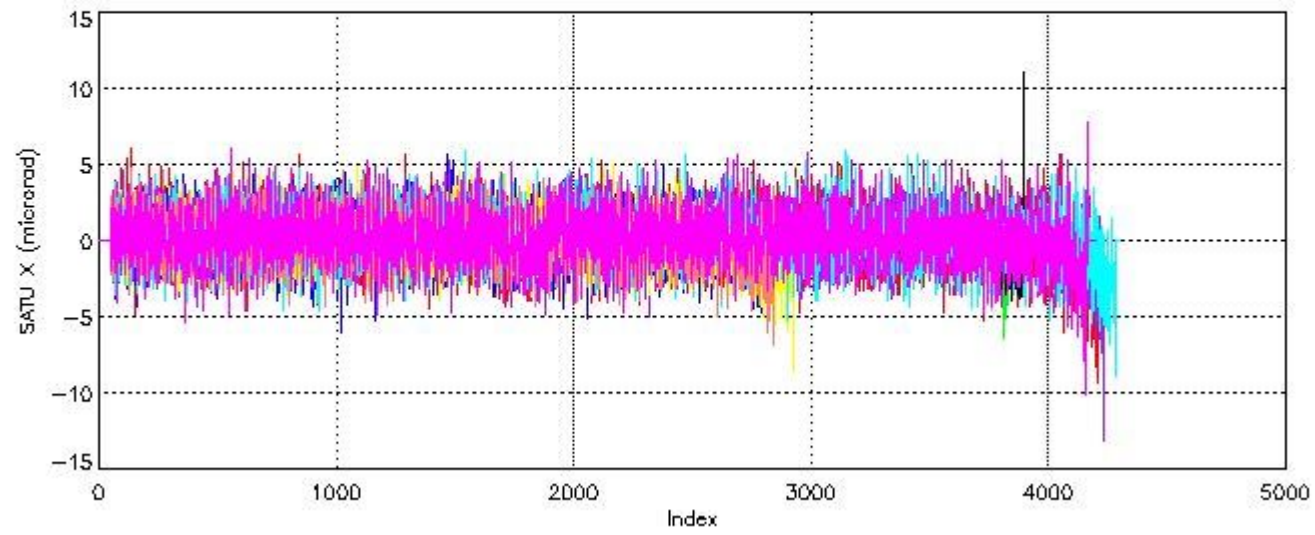


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27688	-0.16297	0.37763	-1.0505
St. deviation:	1.1931	3.8187	0.84587	2.3424
Maximum:	6.0000	19.100	4.8000	12.600
Minimum:	-5.4000	-24.400	-3.5000	-11.200

Number of data:	11200.	11200.	30150.	30150.
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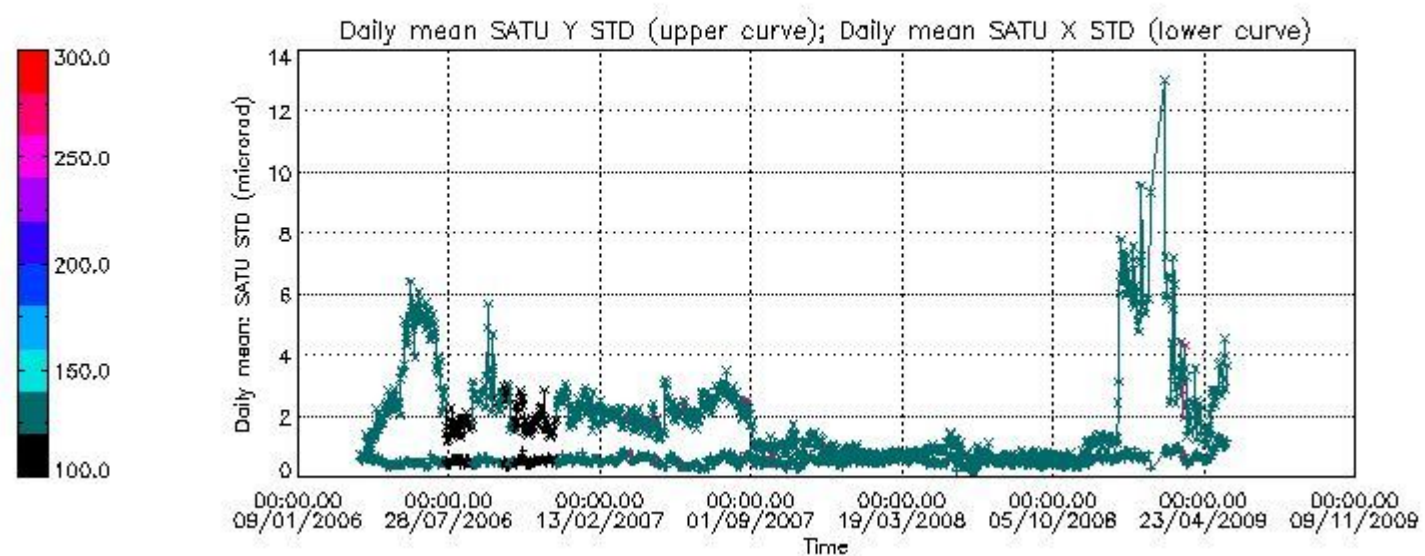
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

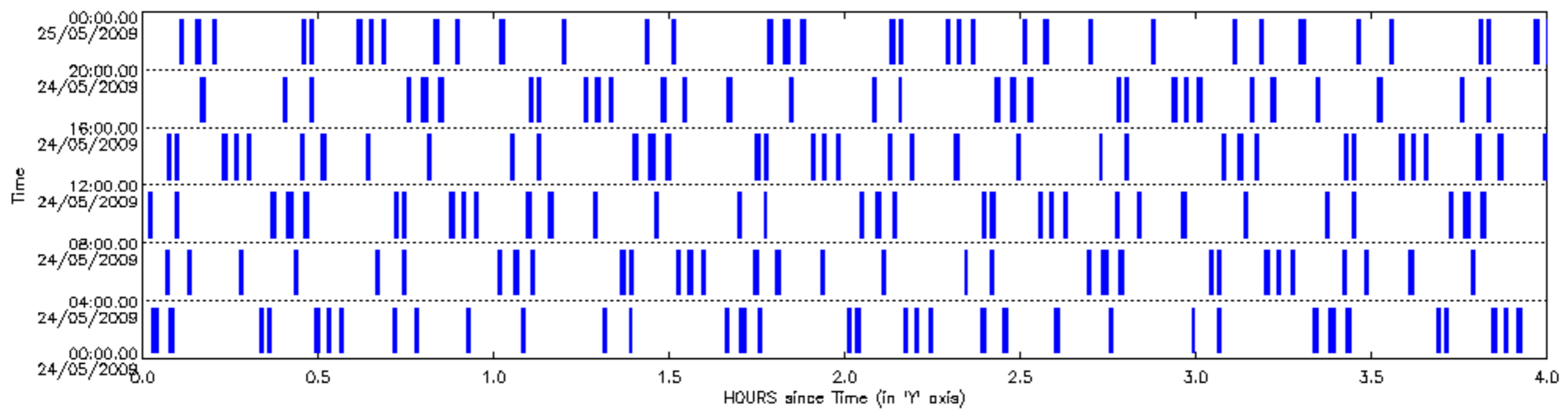
Lower curve: STD of SATU X axis

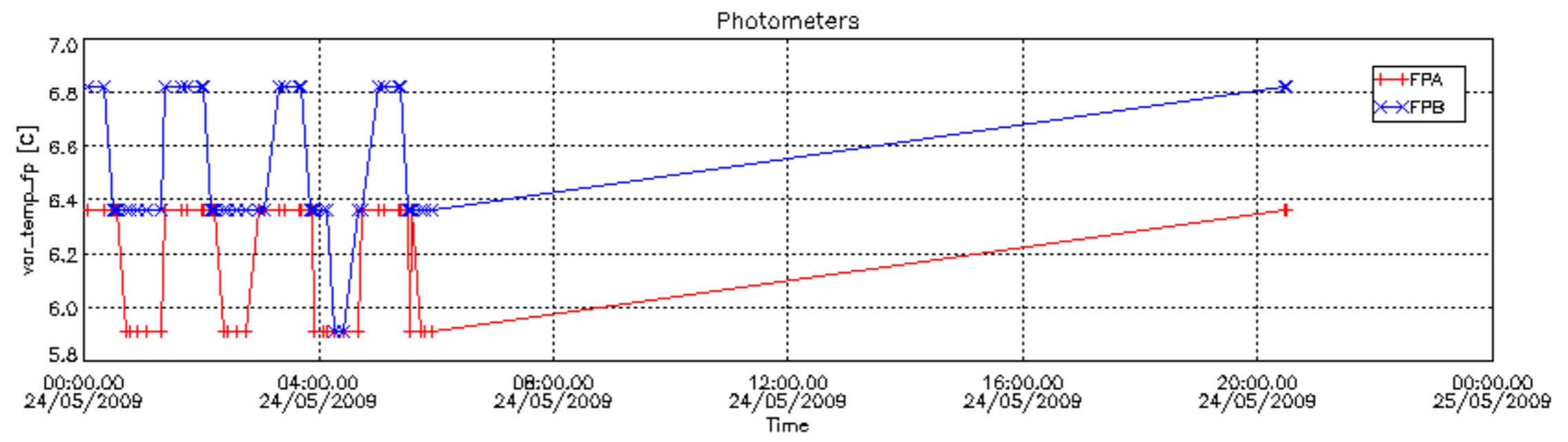
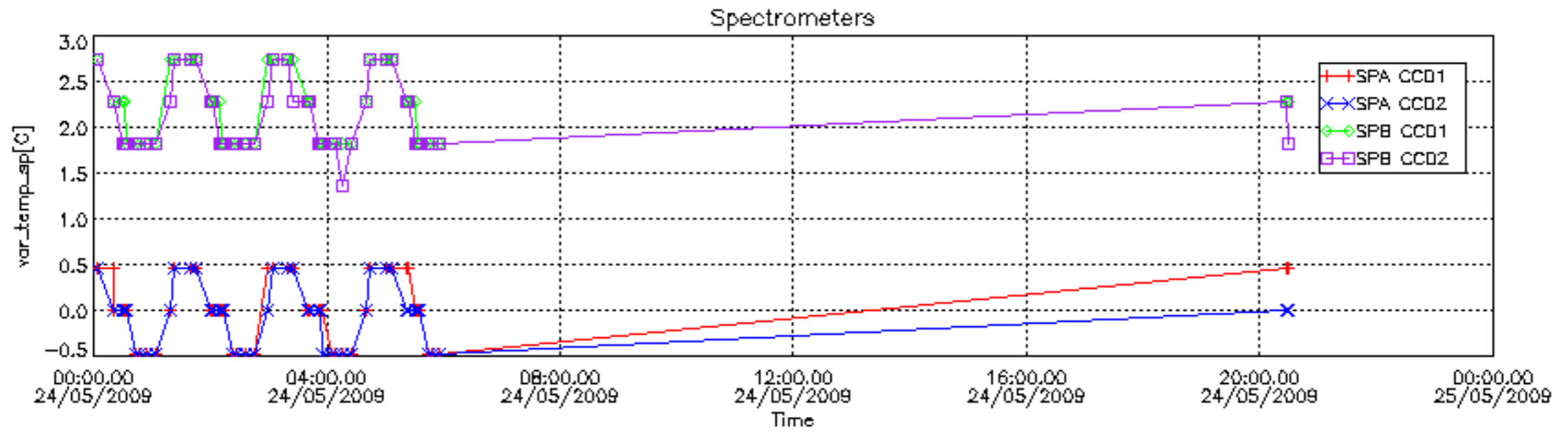


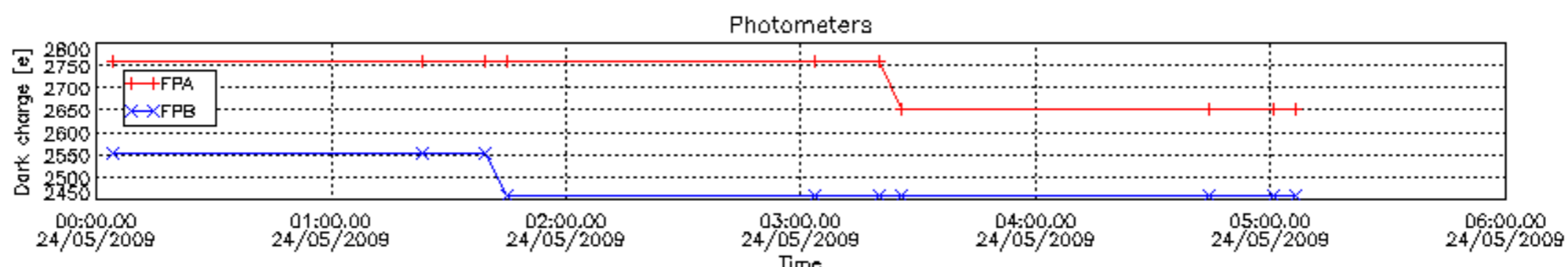
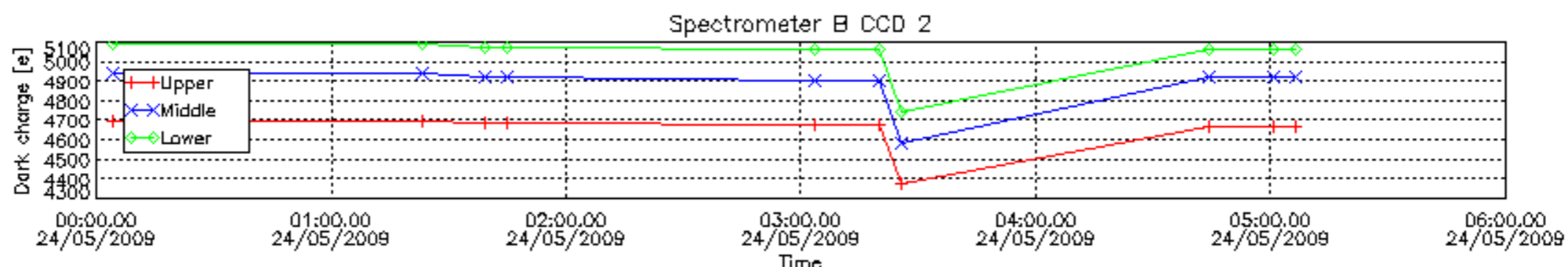
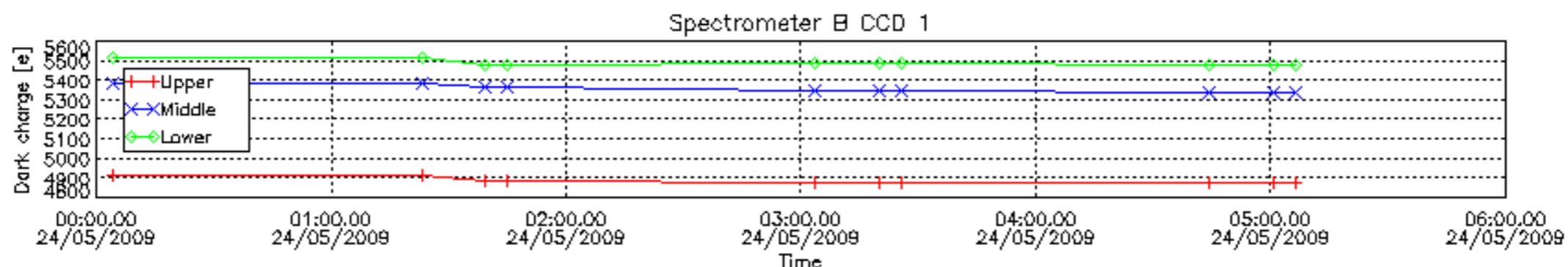
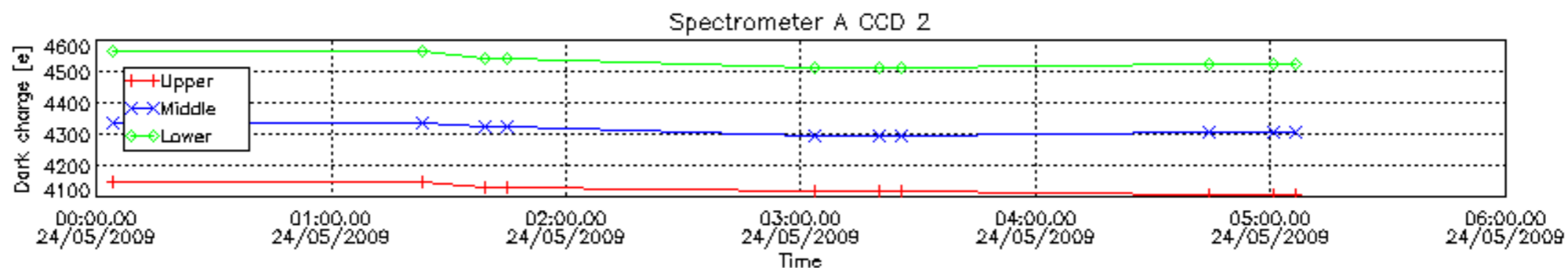
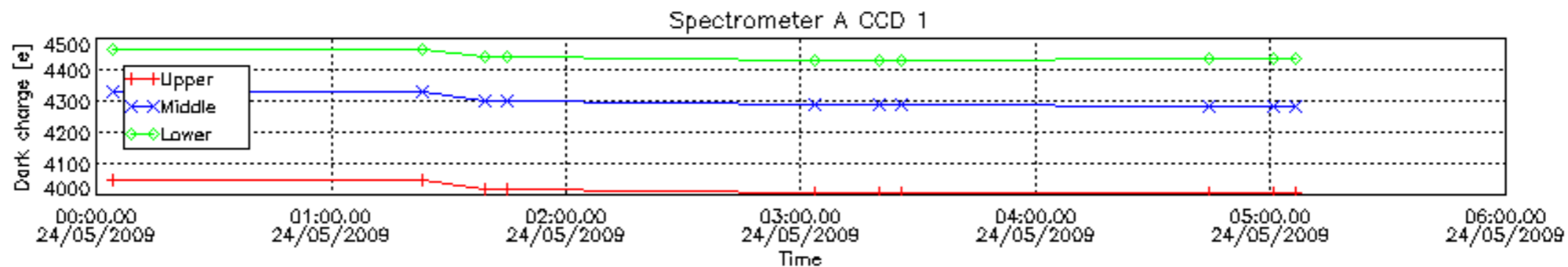
8. Auxiliary Data Files used for the production reported in section 2.4

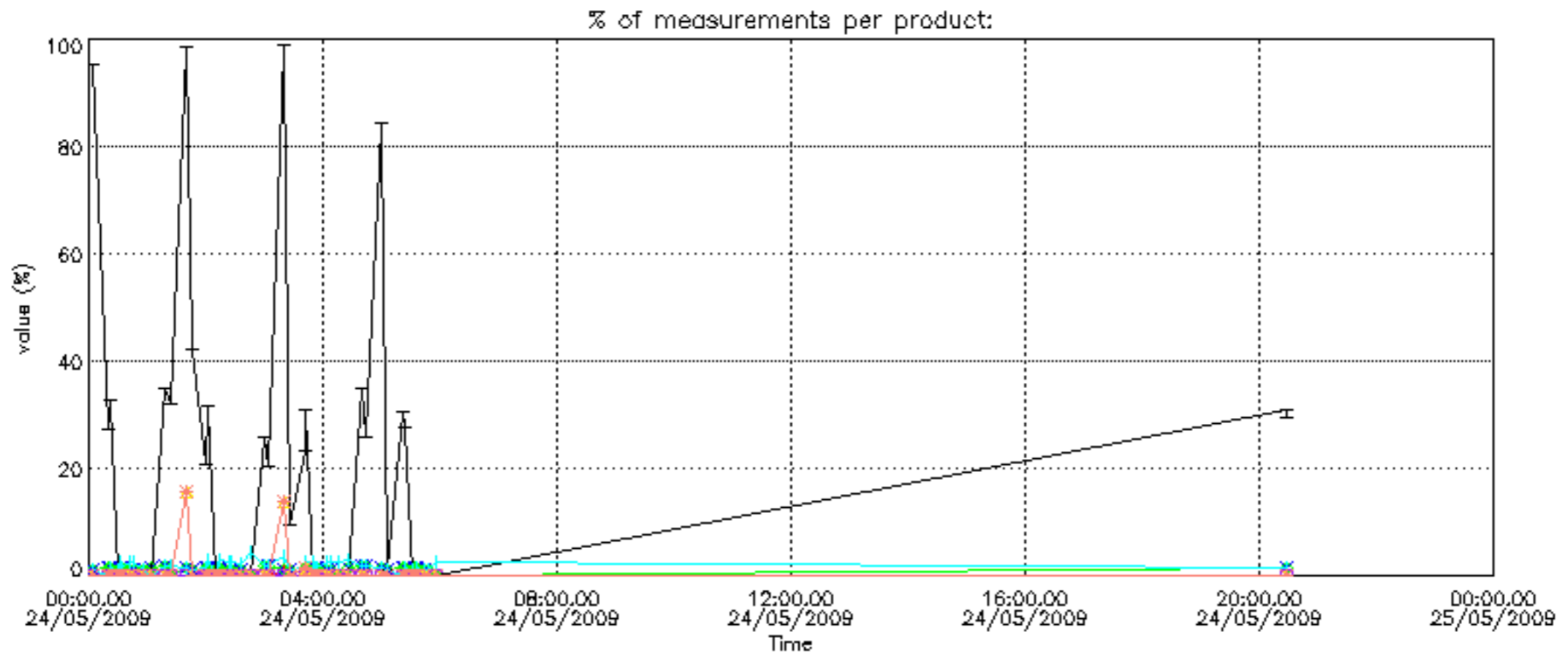
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-MAY-2009 00:04:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090519_115952_20090517_000000_20100101_000000	1	24-MAY-2009 00:04:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-MAY-2009 00:04:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-MAY-2009 00:04:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-MAY-2009 00:04:25
ECMWF_FILE	AUX_ECF_AXNECM20090523_064111_20090523_210000_20090524_090000	1	24-MAY-2009 00:04:25
ECMWF_FILE	AUX_ECF_AXNECM20090523_184111_20090524_030000_20090524_150000	36	24-MAY-2009 04:25:48
ECMWF_FILE	AUX_ECF_AXNECM20090524_064112_20090524_150000_20090525_030000	49	24-MAY-2009 20:27:11
OPTIONAL_ECMWF_FILE	MISSING	1	24-MAY-2009 00:04:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090523_220816_000057382079_00172_37801_8005.N1	1	24-MAY-2009 00:04:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090523_234913_000057382079_00173_37802_8006.N1	13	24-MAY-2009 01:39:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090524_013010_000041442079_00174_37803_8007.N1	24	24-MAY-2009 02:59:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090524_024433_000054192079_00175_37804_8008.N1	36	24-MAY-2009 04:25:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090524_202152_000041442079_00186_37815_8010.N1	49	24-MAY-2009 20:27:11

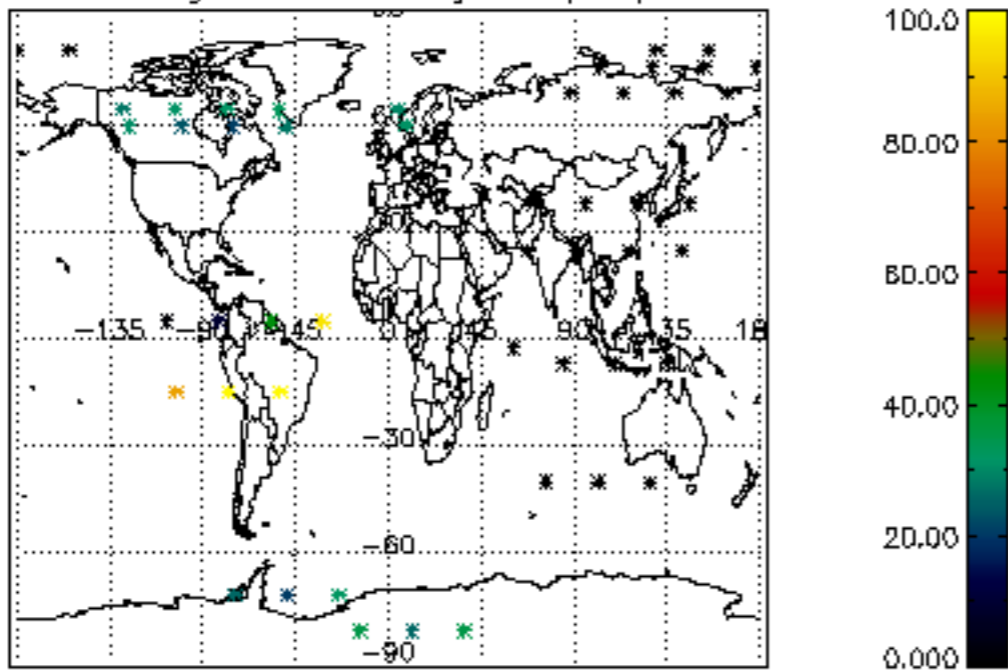




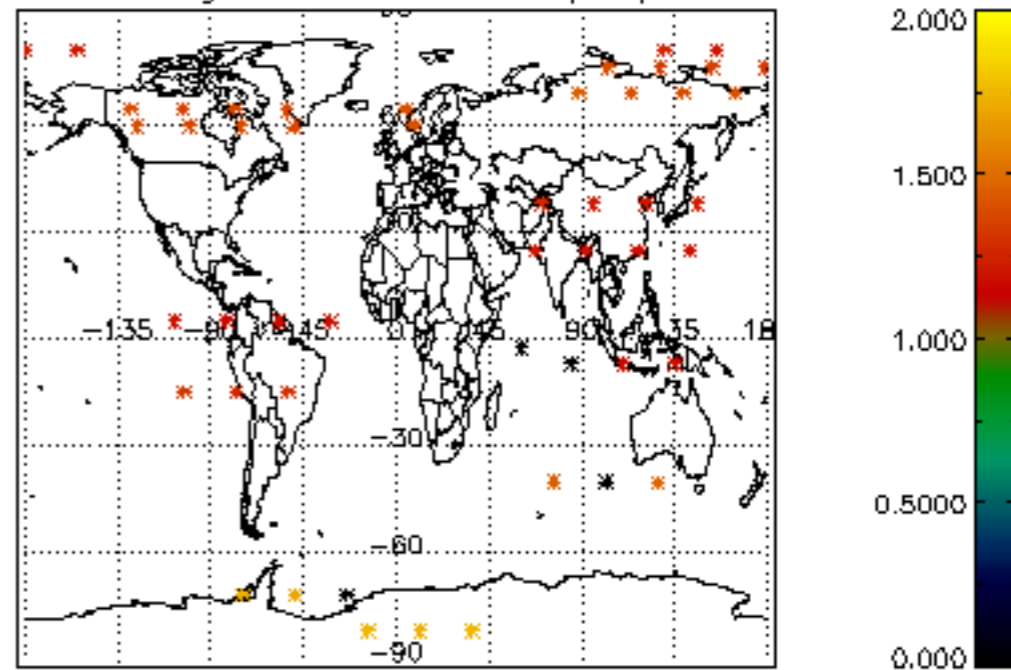




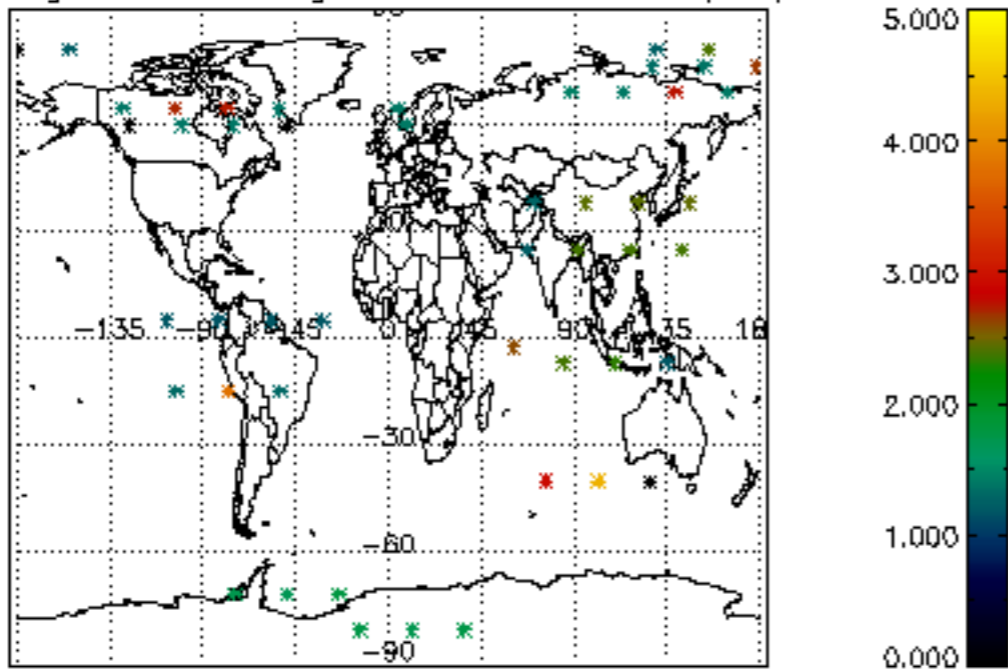
Percentage of cosmic ray hits per profile



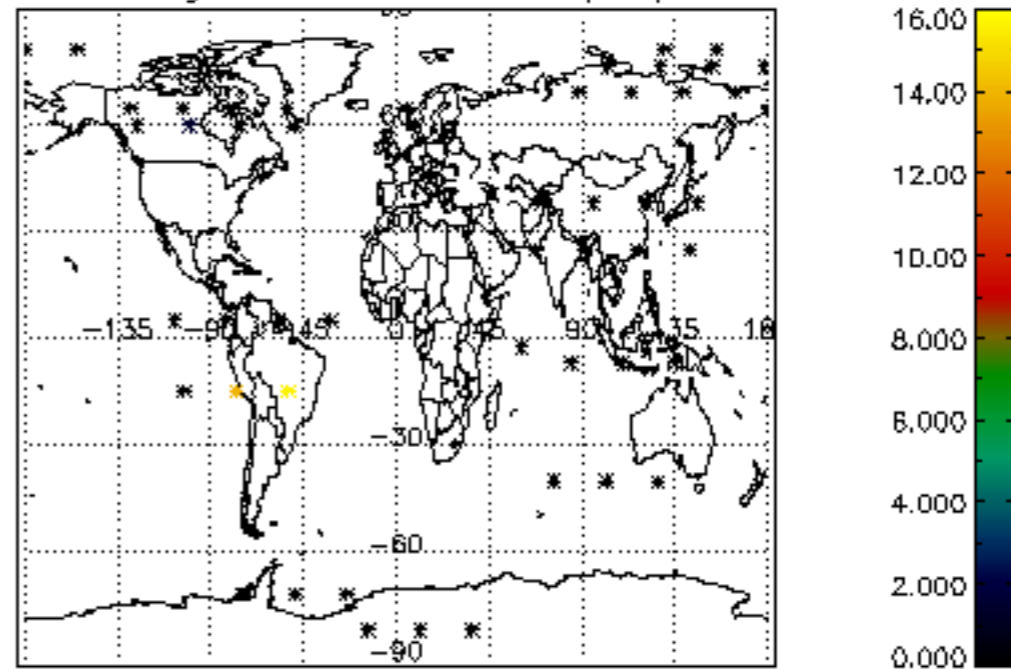
Percentage of datation errors per profile



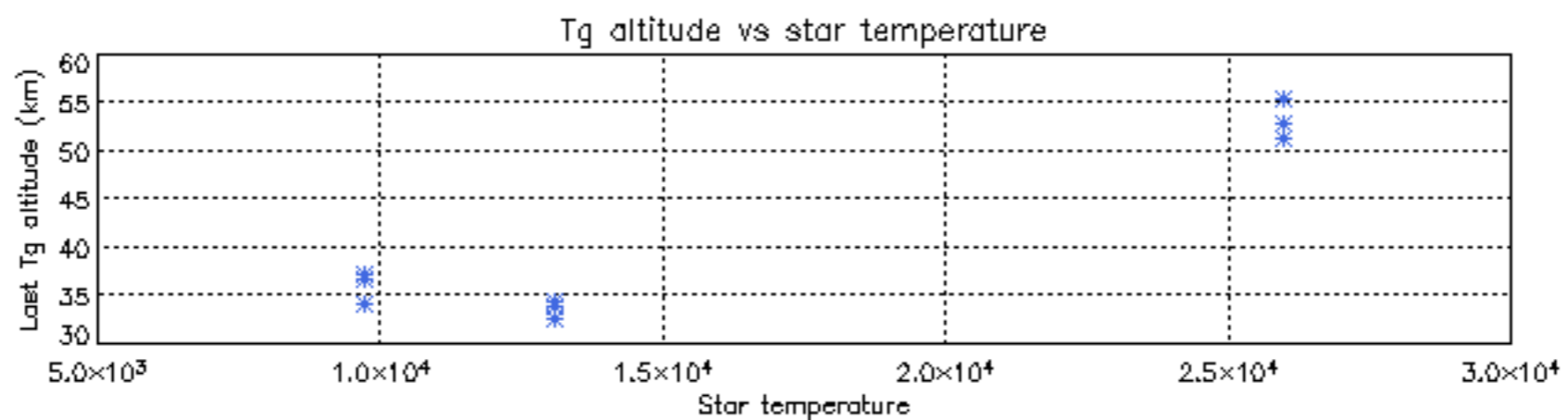
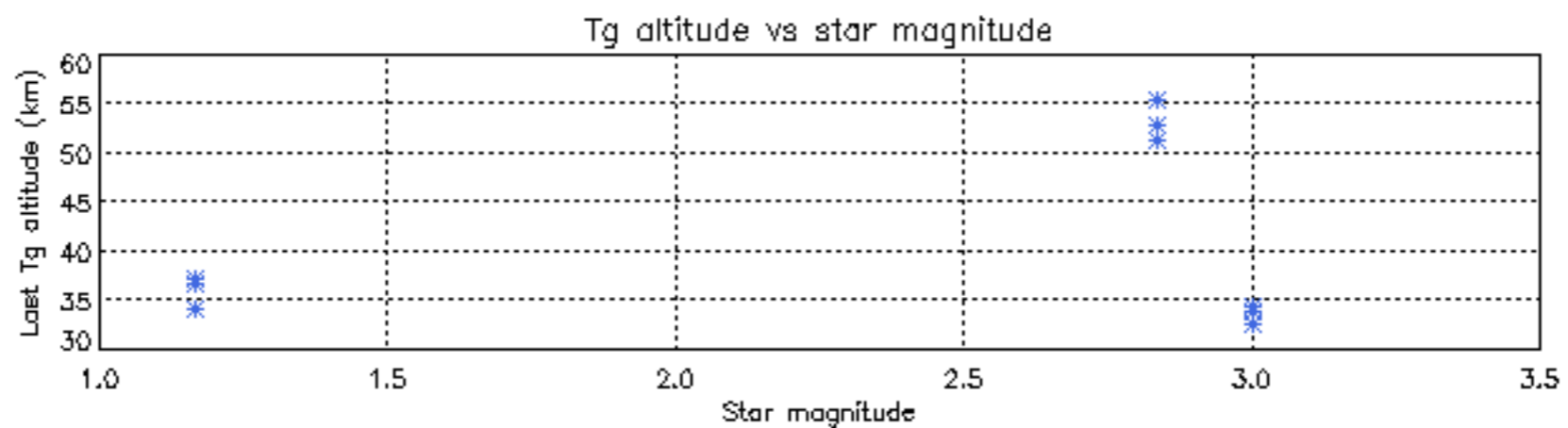
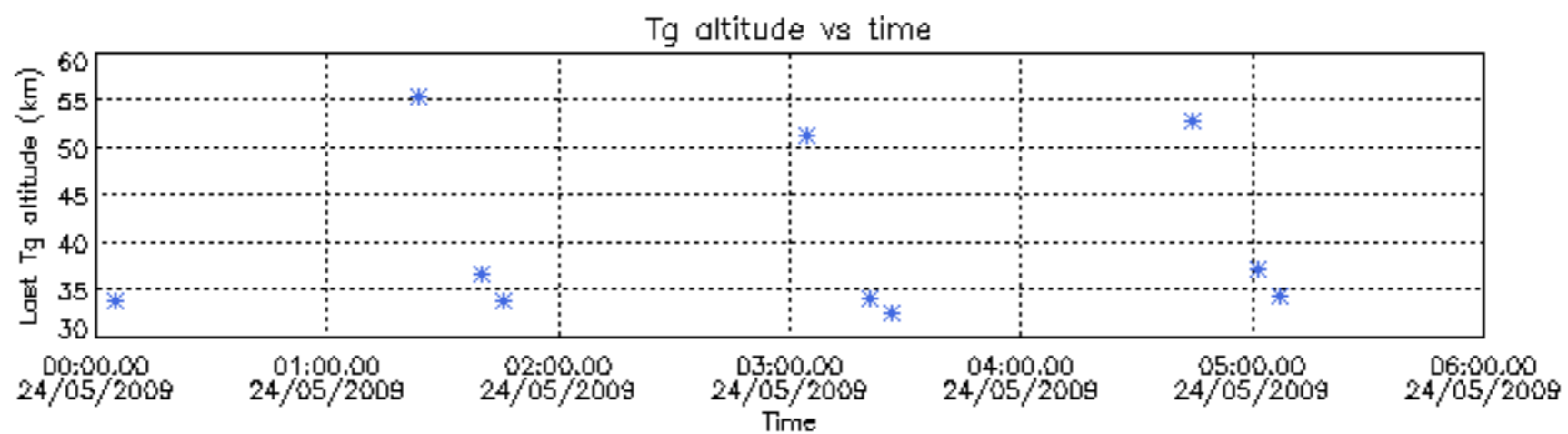
Percentage of star falling outside central band per profile



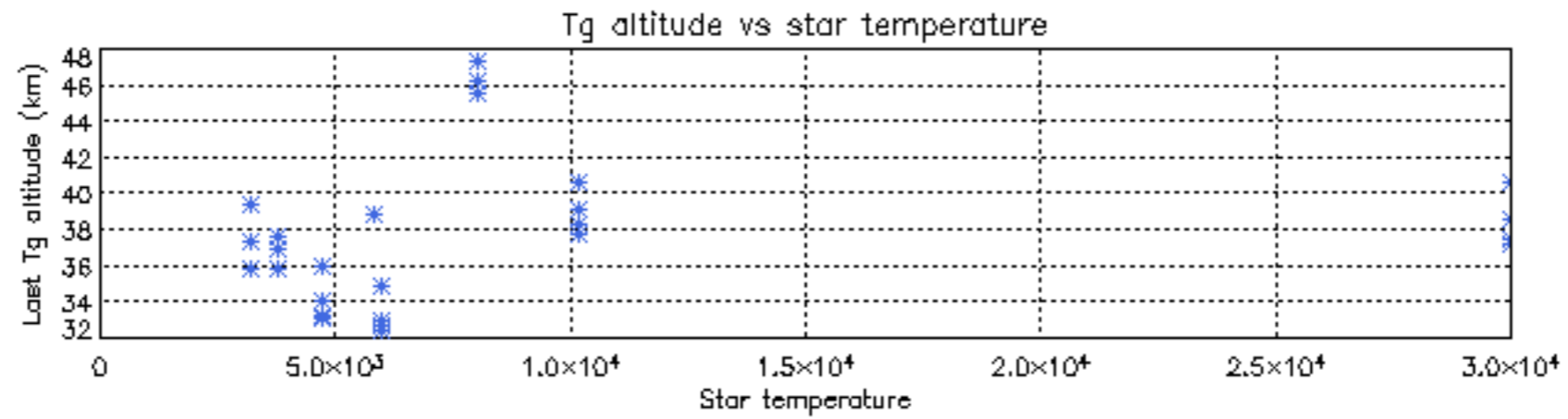
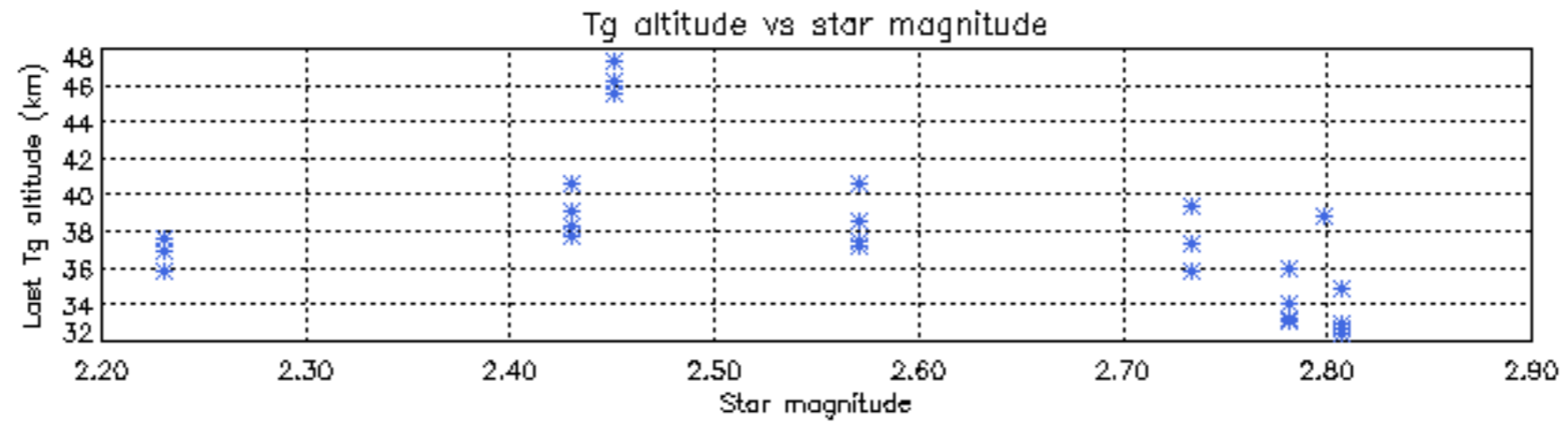
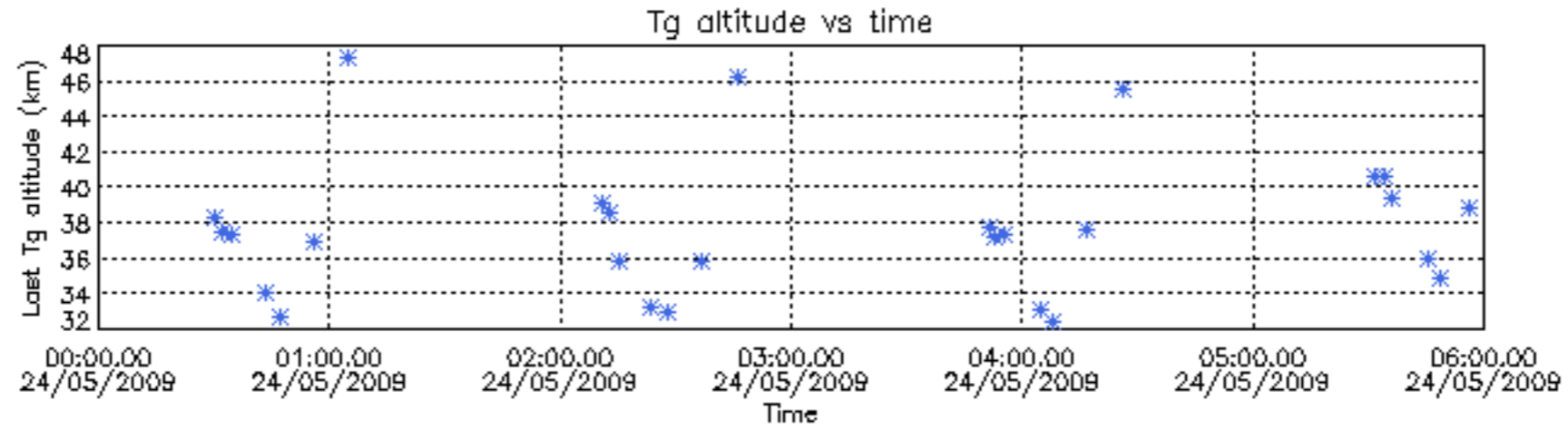
Percentage of saturation errors per profile

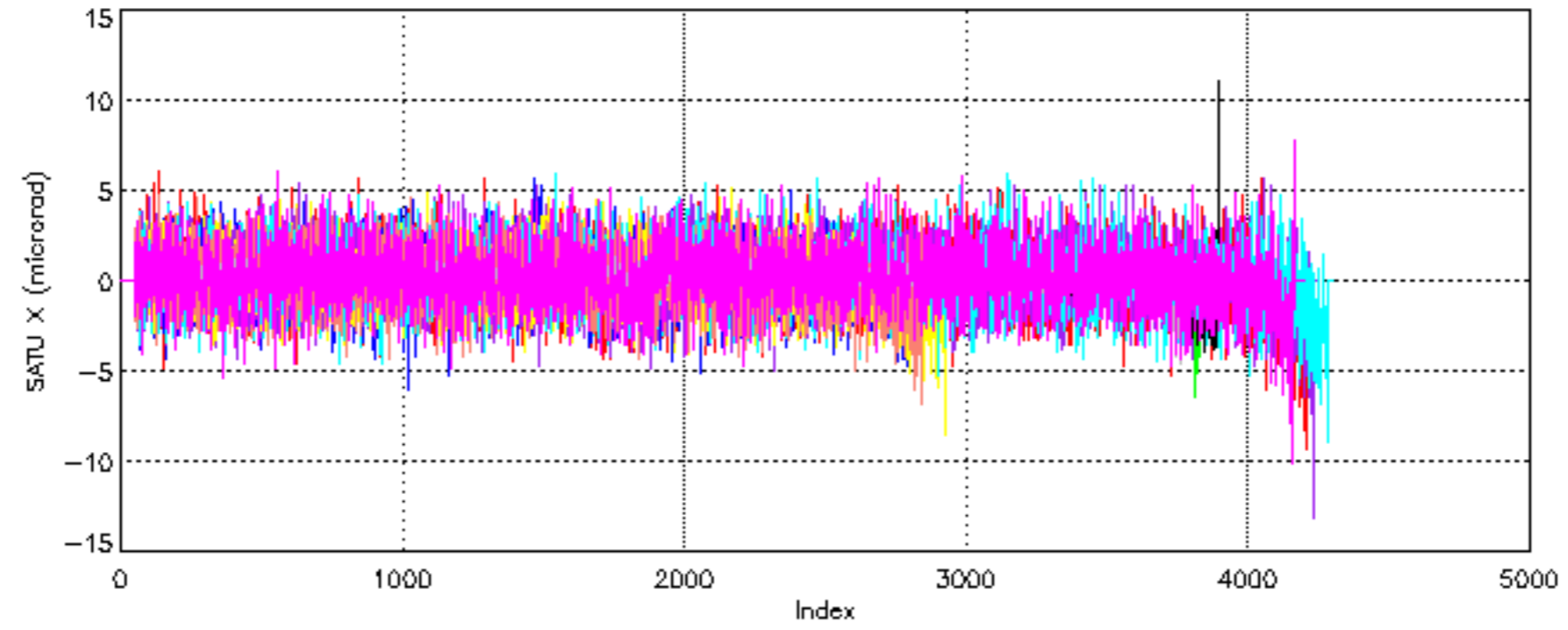


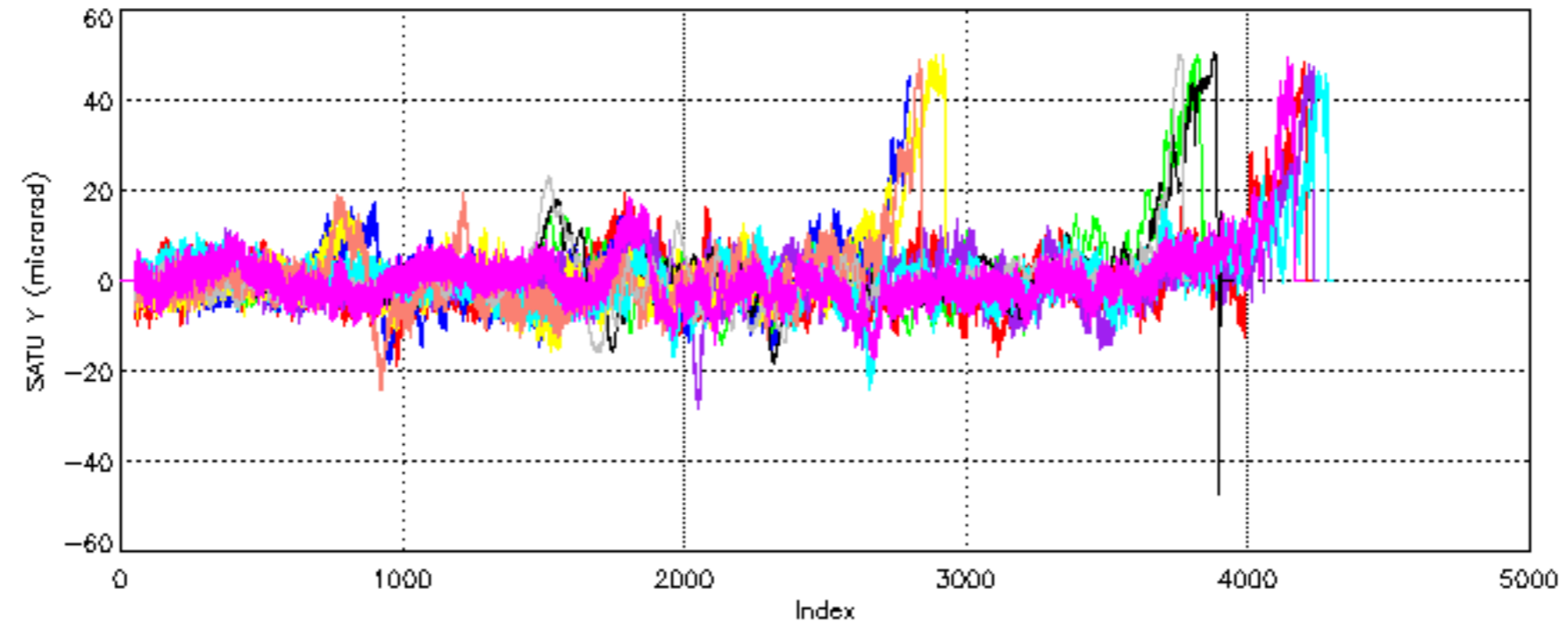
Tangent altitude at which the star is lost

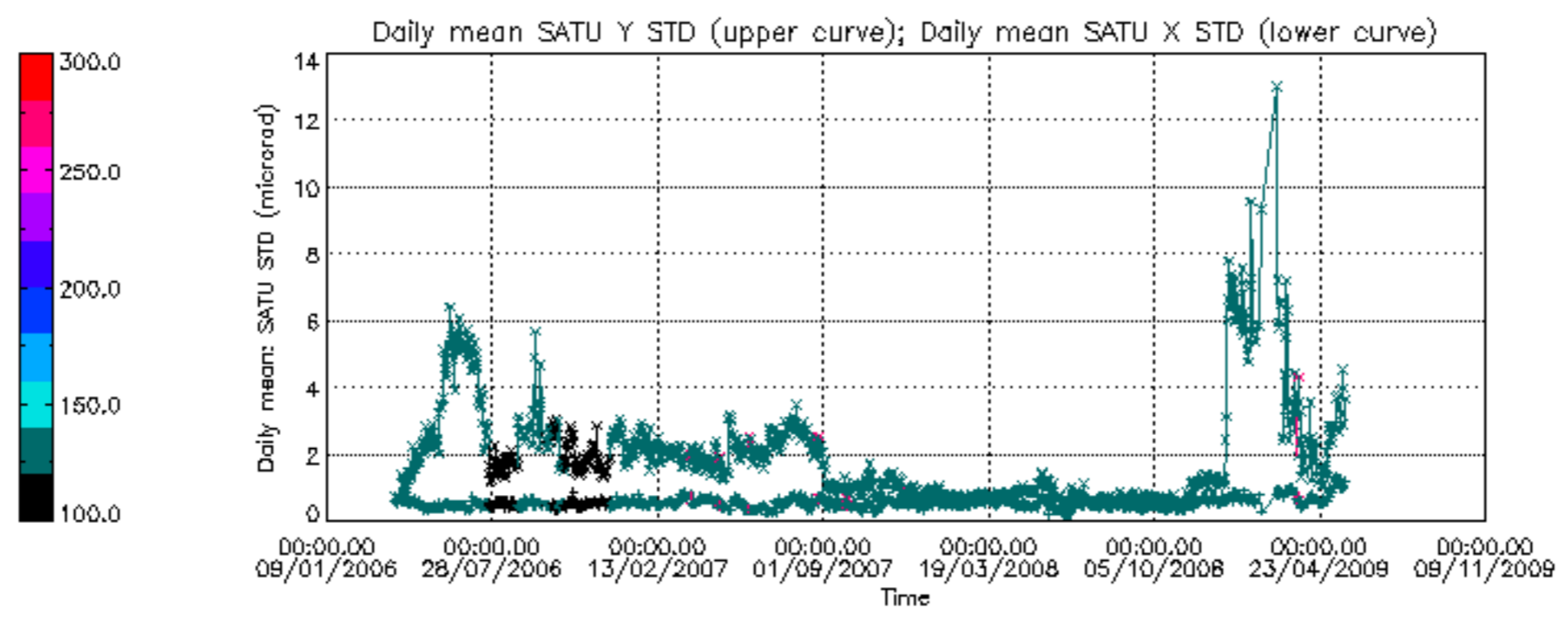


Tangent altitude at which the star is lost









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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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 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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2; 1050.0; 01-MAY-2009 20:50:44; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;37486
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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8; 2448.9; 01-MAY-2009 21:14:02; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37486
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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4; 867.0; 02-MAY-2009 00:08:52; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37488
5; 1050.8; 02-MAY-2009 00:11:56; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37488
6; 1273.3; 02-MAY-2009 00:15:39; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37488
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8; 1592.5; 02-MAY-2009 00:20:58; Bright; 41.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 82; 0;37488
9; 1727.7; 02-MAY-2009 00:23:13; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;37488
10; 2260.5; 02-MAY-2009 00:32:06; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37488
11; 2447.9; 02-MAY-2009 00:35:13; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37488
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8; 1725.8; 04-MAY-2009 22:48:20; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;37530
9; 2428.9; 04-MAY-2009 23:00:03; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37530
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8; 2428.4; 05-MAY-2009 00:40:39; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;37531
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8; 1288.6; 04-MAY-2009 07:35:40; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;37521
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4; 3181.2; 04-MAY-2009 08:07:12; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;37521
5; 3813.2; 04-MAY-2009 08:17:44; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37521
6; 4516.6; 04-MAY-2009 08:29:28; Dark ; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;37521
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11; 6937.8; 04-MAY-2009 15:52:13; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37525
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4; 2430.3; 04-MAY-2009 16:17:41; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37526
5; 2534.2; 04-MAY-2009 16:19:25; Bright; 29.0; 67; 5Alp CrB ; 2.22; 11000;occ; 58; 0;37526
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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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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
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 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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 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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 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
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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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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
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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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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
10; 5643.0; 05-MAY-2009 16:39:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37540
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12; 6951.0; 05-MAY-2009 17:01:25; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37540
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 4; 1701.7; 28-MAY-2009 18:32:09; Bright; 32.0; 98; 13Zet Oph ; 2.57; 30000;occ; 64; 0;37871
 5; 1835.9; 28-MAY-2009 18:34:23; Bright; 30.5; 120; 1Del Oph ; 2.73; 3200;occ; 61; 0;37871
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 9; 2550.6; 29-MAY-2009 03:09:18; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37876
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4; 2324.4; 31-MAY-2009 17:07:41; Bright; 32.5; 127; 27Bet Her ; 2.78; 4700;occ; 65; 0;37913
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7; 3631.3; 31-MAY-2009 17:29:28; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37913
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