

GOMOS Daily Report 08-MAY-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	13MAY2009 04:40:41
Data source version	GOMOS/5.00
Start time of products	08MAY2009 00:19:47
Stop time of products	08MAY2009 05:42:32
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

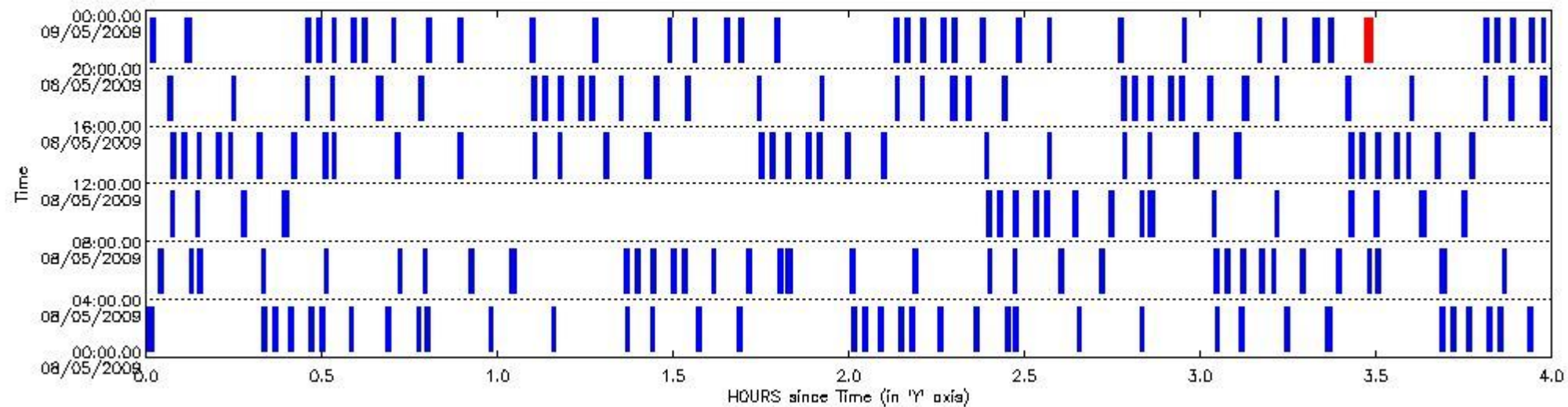
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

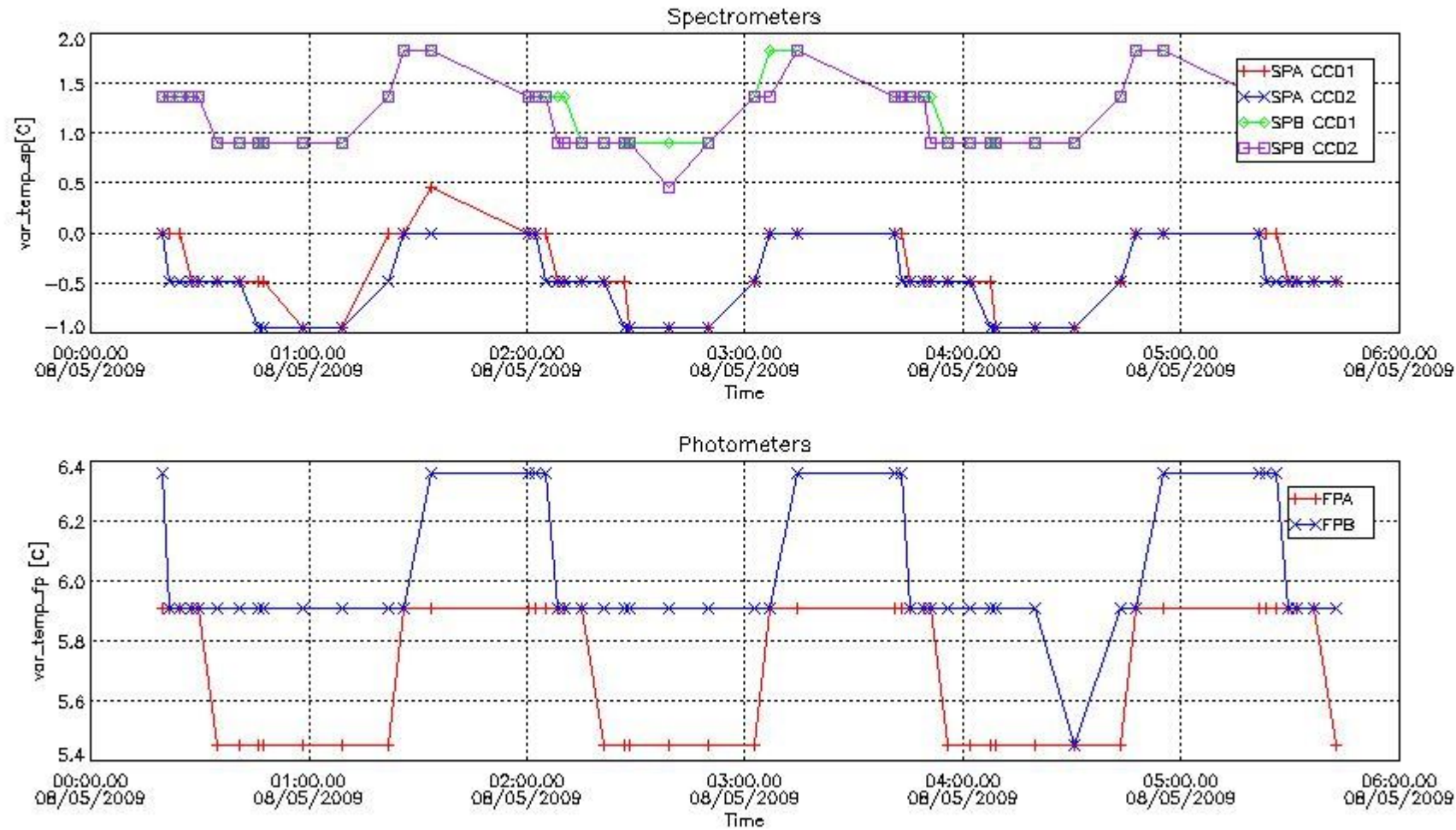
UTC start time	Star name	Star ID	Orbit
08-MAY-2009 23:27:57	49DelCap	142	37587

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_1PNPDE20090508_001947_000000472078_00446_37574_5965.N1	08-MAY-2009 00:19:47	Straylight	46.500	40	The Sco	1.8590	7100.0	93	37574	No
2	GOM_TRA_1PNPDE20090508_002138_000000502078_00446_37574_5966.N1	08-MAY-2009 00:21:38	Straylight	50.000	25	35Lam Sco	1.6200	28000.	100	37574	No
3	GOM_TRA_1PNPDE20090508_002422_000000472078_00446_37574_5967.N1	08-MAY-2009 00:24:22	Straylight	46.500	75	26Eps Sco	2.2910	4250.0	93	37574	No
4	GOM_TRA_1PNPDE20090508_002746_000000482078_00446_37574_5968.N1	08-MAY-2009 00:27:46	Twilight_stray	48.000	16	21Alp Sco	1.0200	3000.0	96	37574	No
5	GOM_TRA_1PNPDE20090508_002944_000000452078_00446_37574_5969.N1	08-MAY-2009 00:29:44	Twilight_stray	44.500	80	7Del Sco	2.3160	30000.	89	37574	No
6	GOM_TRA_1PNPDE20090508_003440_000000422078_00446_37574_5970.N1	08-MAY-2009 00:34:40	Bright	42.000	104	27Bet Lib	2.6140	13100.	84	37574	No
7	GOM_TRA_1PNPDE20090508_004046_000000522078_00446_37574_5971.N1	08-MAY-2009 00:40:46	Bright	52.000	102	24Alp Ser	2.6000	4250.0	104	37574	No
8	GOM_TRA_1PNPDE20090508_004608_000000402078_00446_37574_5972.N1	08-MAY-2009 00:46:08	Bright	40.000	83		2.3780	11000.	80	37574	No
9	GOM_TRA_1PNPDE20090508_004733_000000462078_00446_37574_5973.N1	08-MAY-2009 00:47:33	Bright	46.000	67	5Alp CrB	2.2210	11000.	92	37574	No
10	GOM_TRA_1PNPDE20090508_005826_000000422078_00446_37574_5974.N1	08-MAY-2009 00:58:26	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	37574	No

11	GOM_TRA_1PNPDE20090508_010910_000000372078_00446_37574_5975.N1	08-MAY-2009 01:09:10	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37574	No
12	GOM_TRA_1PNPDE20090508_012151_000000352078_00446_37574_5976.N1	08-MAY-2009 01:21:51	Twilight	34.500	93	53Bet Peg	2.5200	3100.0	69	37574	No
13	GOM_TRA_1PNPDE20090508_012606_000000362078_00446_37574_5977.N1	08-MAY-2009 01:26:06	Dark	35.500	90	54Alp Peg	2.4870	11000.	71	37574	No
14	GOM_TRA_1PNPDE20090508_013349_000000502078_00446_37574_6112.N1	08-MAY-2009 01:33:49	Dark	50.000	162	34Alp Aqr	2.9440	5350.0	100	37574	No
15	GOM_TRA_1PNPDE20090508_020024_000000472078_00447_37575_6113.N1	08-MAY-2009 02:00:24	Straylight	47.000	40	The Sco	1.8590	7100.0	94	37575	No
16	GOM_TRA_1PNPDE20090508_020214_000000512078_00447_37575_6114.N1	08-MAY-2009 02:02:14	Straylight	50.500	25	35Lam Sco	1.6200	28000.	101	37575	No
17	GOM_TRA_1PNPDE20090508_020458_000000472078_00447_37575_6115.N1	08-MAY-2009 02:04:58	Straylight	46.500	75	26Eps Sco	2.2910	4250.0	93	37575	No
18	GOM_TRA_1PNPDE20090508_020823_000000482078_00447_37575_6116.N1	08-MAY-2009 02:08:23	Twilight	48.000	16	21Alp Sco	1.0200	3000.0	96	37575	No
19	GOM_TRA_1PNPDE20090508_021020_000000452078_00447_37575_6117.N1	08-MAY-2009 02:10:20	Bright	44.500	80	7Del Sco	2.3160	30000.	89	37575	No
20	GOM_TRA_1PNPDE20090508_021517_000000422078_00447_37575_6118.N1	08-MAY-2009 02:15:17	Bright	42.000	104	27Bet Lib	2.6140	13100.	84	37575	No
21	GOM_TRA_1PNPDE20090508_022121_000000522078_00447_37575_6119.N1	08-MAY-2009 02:21:21	Bright	51.500	102	24Alp Ser	2.6000	4250.0	103	37575	No
22	GOM_TRA_1PNPDE20090508_022643_000000422078_00447_37575_6120.N1	08-MAY-2009 02:26:43	Bright	42.000	83		2.3780	11000.	84	37575	No
23	GOM_TRA_1PNPDE20090508_022808_000000482078_00447_37575_6121.N1	08-MAY-2009 02:28:08	Bright	48.000	67	5Alp CrB	2.2210	11000.	96	37575	No
24	GOM_TRA_1PNPDE20090508_023901_000000392078_00447_37575_6122.N1	08-MAY-2009 02:39:01	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37575	No
25	GOM_TRA_1PNPDE20090508_024946_000000372078_00447_37575_6123.N1	08-MAY-2009 02:49:46	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37575	No
26	GOM_TRA_1PNPDE20090508_030227_000000352078_00447_37575_6262.N1	08-MAY-2009 03:02:27	Twilight	34.500	93	53Bet Peg	2.5200	3100.0	69	37575	No
27	GOM_TRA_1PNPDE20090508_030642_000000362078_00447_37575_6263.N1	08-MAY-2009 03:06:42	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37575	No
28	GOM_TRA_1PNPDE20090508_031426_000000502078_00447_37575_6264.N1	08-MAY-2009 03:14:26	Dark	50.000	162	34Alp Aqr	2.9440	5350.0	100	37575	No
29	GOM_TRA_1PNPDE20090508_034100_000000472078_00448_37576_6265.N1	08-MAY-2009 03:41:00	Straylight	47.000	40	The Sco	1.8590	7100.0	94	37576	No
30	GOM_TRA_1PNPDE20090508_034251_000000512078_00448_37576_6266.N1	08-MAY-2009 03:42:51	Straylight	50.500	25	35Lam Sco	1.6200	28000.	101	37576	No
31	GOM_TRA_1PNPDE20090508_034534_000000472078_00448_37576_6267.N1	08-MAY-2009 03:45:34	Straylight	47.000	75	26Eps Sco	2.2910	4250.0	94	37576	No
32	GOM_TRA_1PNPDE20090508_034859_000000492078_00448_37576_6268.N1	08-MAY-2009 03:48:59	Twilight	48.500	16	21Alp Sco	1.0200	3000.0	97	37576	No
33	GOM_TRA_1PNPDE20090508_035056_000000452078_00448_37576_6269.N1	08-MAY-2009 03:50:56	Bright	45.000	80	7Del Sco	2.3160	30000.	90	37576	No
34	GOM_TRA_1PNPDE20090508_035552_000000432078_00448_37576_6270.N1	08-MAY-2009 03:55:52	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	37576	No
35	GOM_TRA_1PNPDE20090508_040157_000000502078_00448_37576_6271.N1	08-MAY-2009 04:01:57	Bright	50.000	102	24Alp Ser	2.6000	4250.0	100	37576	No
36	GOM_TRA_1PNPDE20090508_040719_000000432078_00448_37576_6272.N1	08-MAY-2009 04:07:19	Bright	43.000	83		2.3780	11000.	86	37576	No
37	GOM_TRA_1PNPDE20090508_040844_000000522078_00448_37576_6273.N1	08-MAY-2009 04:08:44	Bright	52.000	67	5Alp CrB	2.2210	11000.	104	37576	No
38	GOM_TRA_1PNPDE20090508_041937_000000422078_00448_37576_6274.N1	08-MAY-2009 04:19:37	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	37576	No
39	GOM_TRA_1PNPDE20090508_043022_000000382078_00448_37576_6454.N1	08-MAY-2009 04:30:22	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	37576	No
40	GOM_TRA_1PNPDE20090508_044304_000000352078_00448_37576_6455.N1	08-MAY-2009 04:43:04	Twilight	34.500	93	53Bet Peg	2.5200	3100.0	69	37576	No
41	GOM_TRA_1PNPDE20090508_044718_000000362078_00448_37576_6456.N1	08-MAY-2009 04:47:18	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37576	No
42	GOM_TRA_1PNPDE20090508_045503_000000502078_00448_37576_6457.N1	08-MAY-2009 04:55:03	Dark	50.000	162	34Alp Aqr	2.9440	5350.0	100	37576	No
43	GOM_TRA_1PNPDE20090508_052137_000000482078_00449_37577_6458.N1	08-MAY-2009 05:21:37	Straylight	47.500	40	The Sco	1.8590	7100.0	95	37577	No
44	GOM_TRA_1PNPDE20090508_052328_000000512078_00449_37577_6459.N1	08-MAY-2009 05:23:28	Straylight	51.000	25	35Lam Sco	1.6200	28000.	102	37577	No
45	GOM_TRA_1PNPDE20090508_052611_000000472078_00449_37577_6460.N1	08-MAY-2009 05:26:11	Straylight	47.000	75	26Eps Sco	2.2910	4250.0	94	37577	No
46	GOM_TRA_1PNPDE20090508_052936_000000482078_00449_37577_6461.N1	08-MAY-2009 05:29:36	Twilight	48.000	16	21Alp Sco	1.0200	3000.0	96	37577	No
47	GOM_TRA_1PNPDE20090508_053133_000000452078_00449_37577_6462.N1	08-MAY-2009 05:31:33	Bright	44.500	80	7Del Sco	2.3160	30000.	89	37577	No
48	GOM_TRA_1PNPDE20090508_053628_000000432078_00449_37577_6463.N1	08-MAY-2009 05:36:28	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	37577	No
49	GOM_TRA_1PNPDE20090508_054232_000000512078_00449_37577_6464.N1	08-MAY-2009 05:42:32	Bright	51.000	102	24Alp Ser	2.6000	4250.0	102	37577	No

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



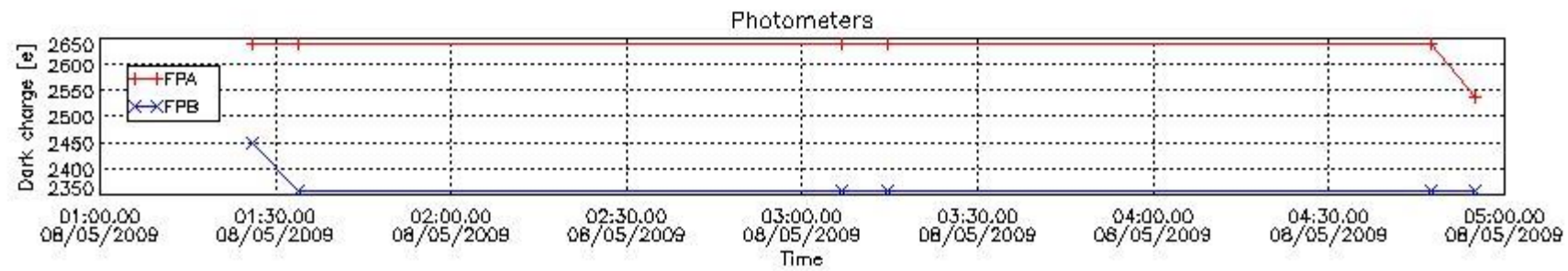
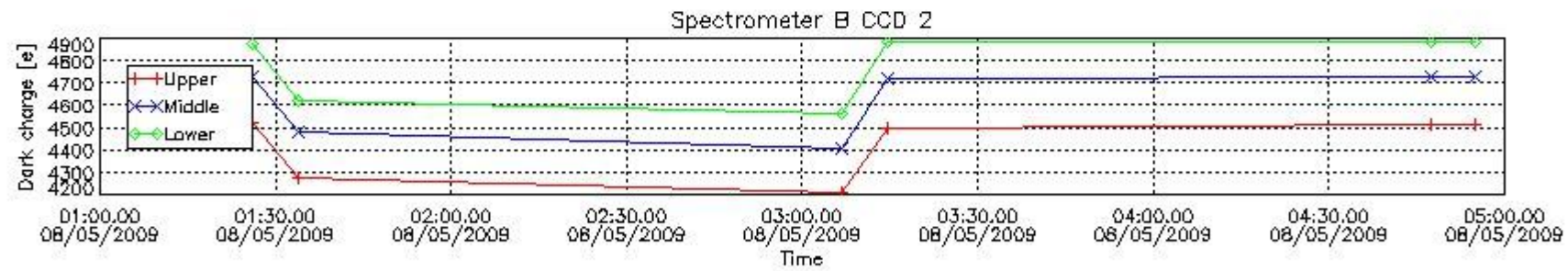
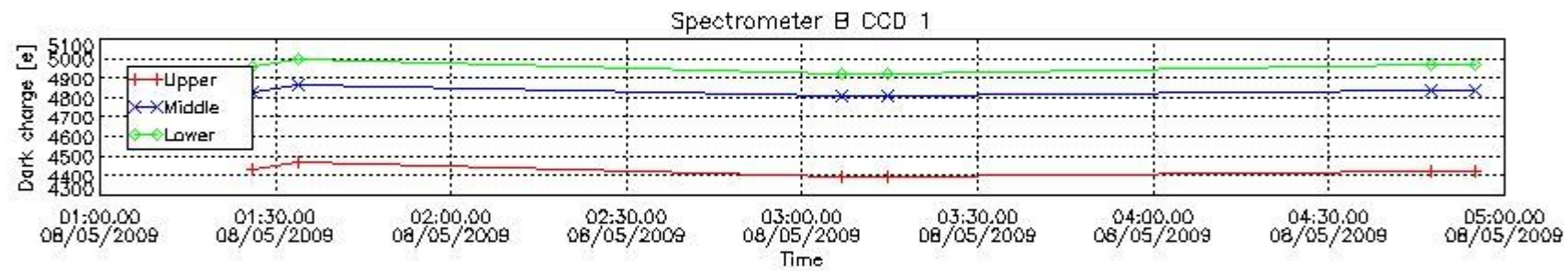
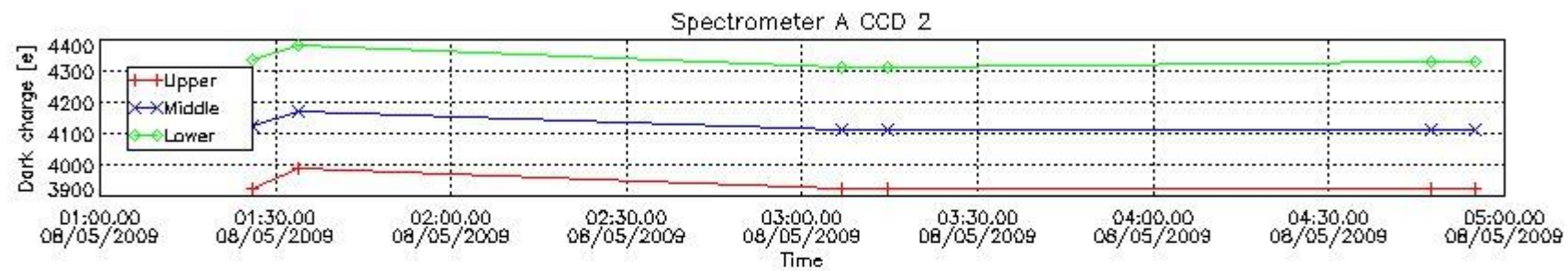
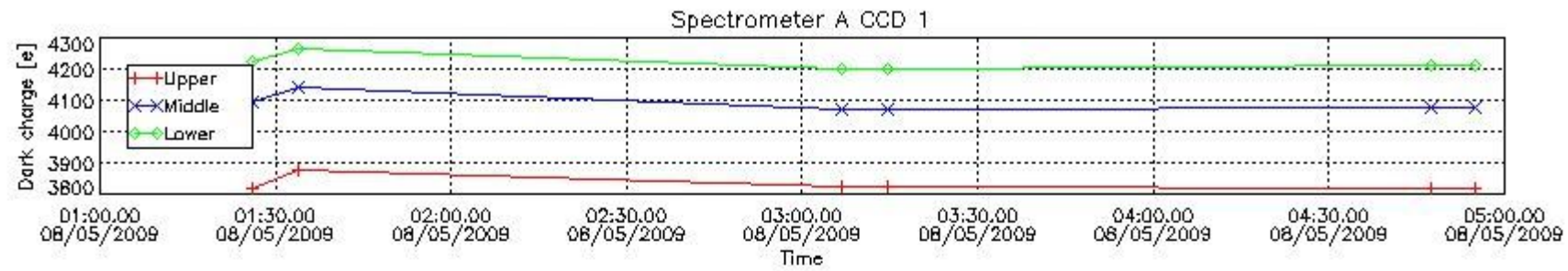
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



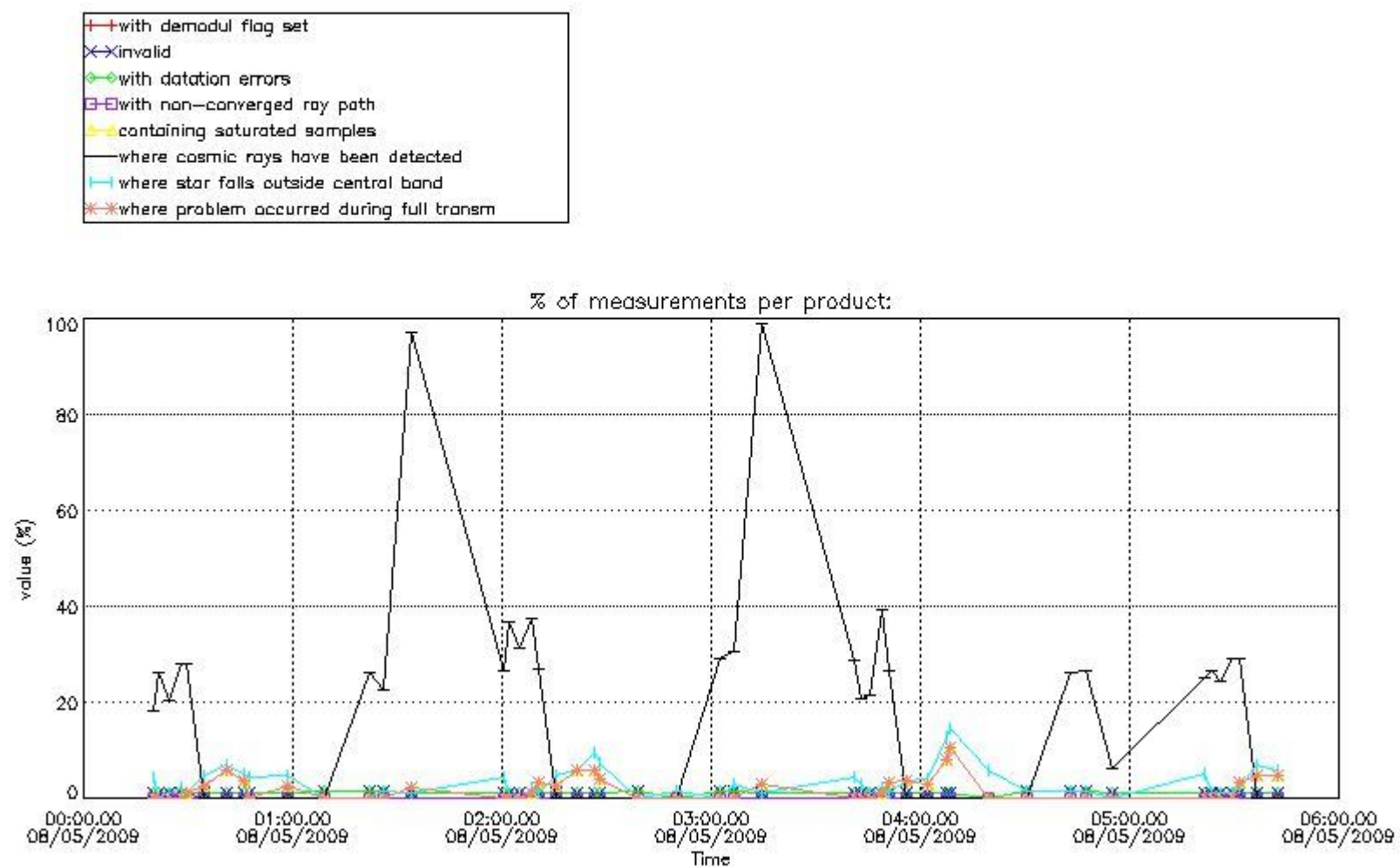
5. Demodulation flag and quality information monitoring

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.

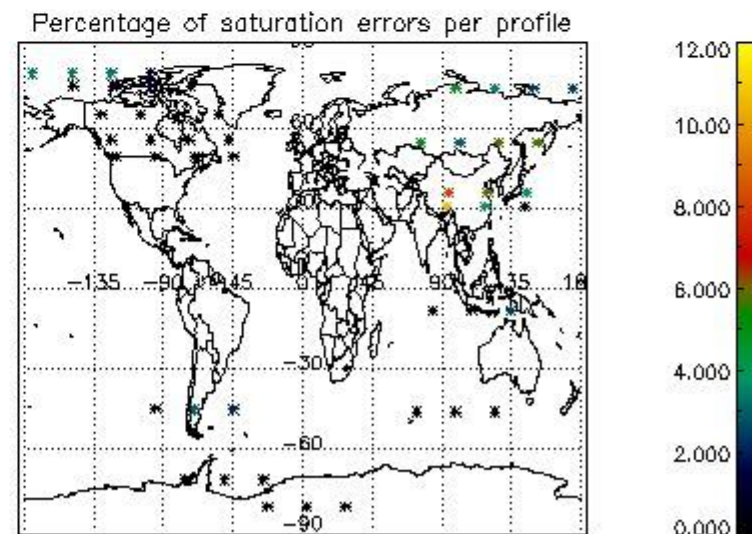
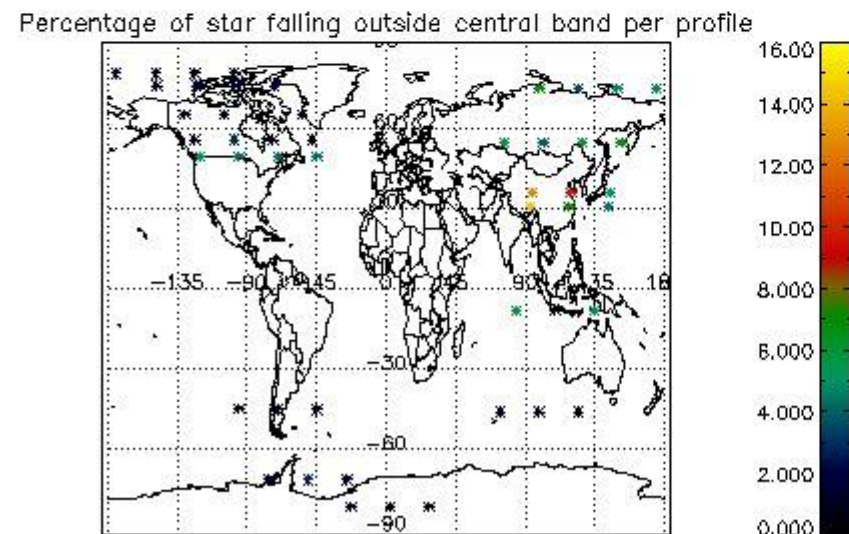
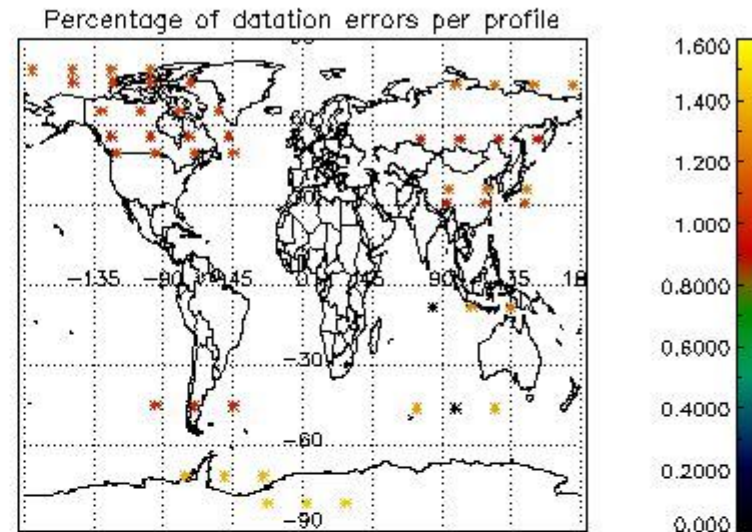
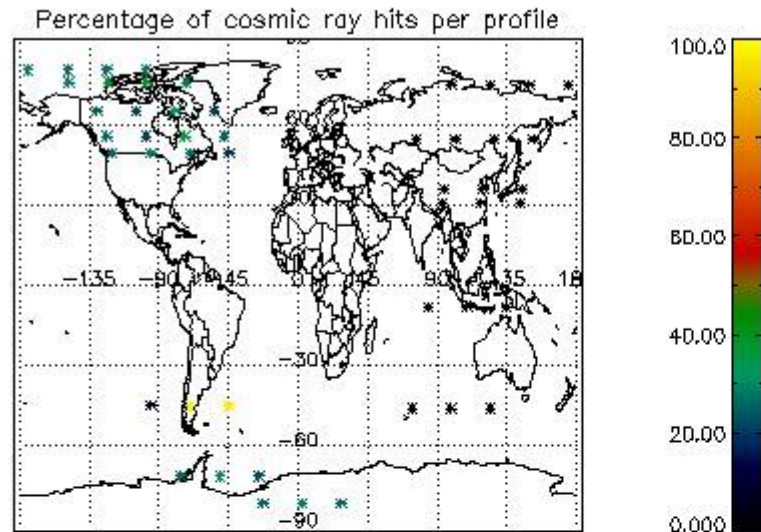
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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)



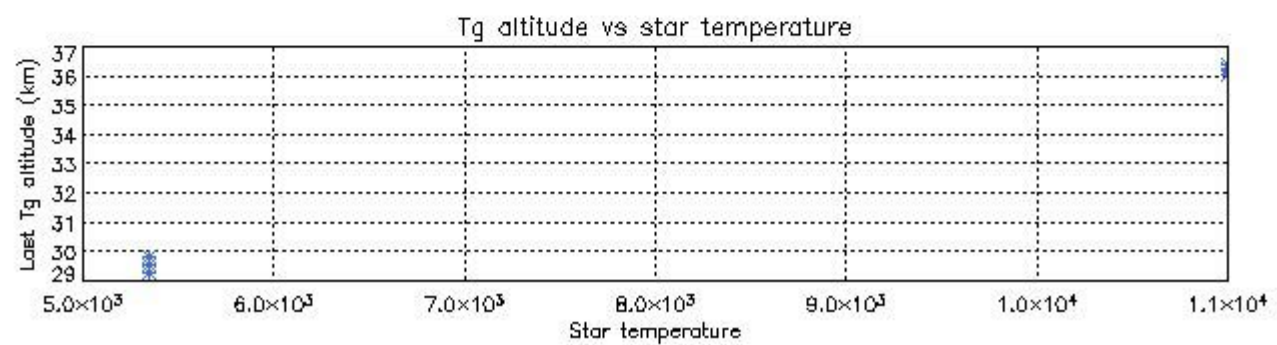
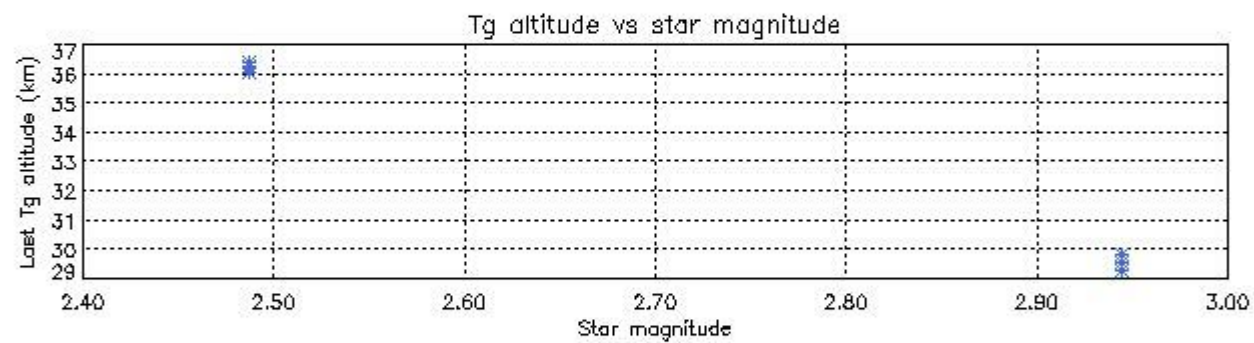
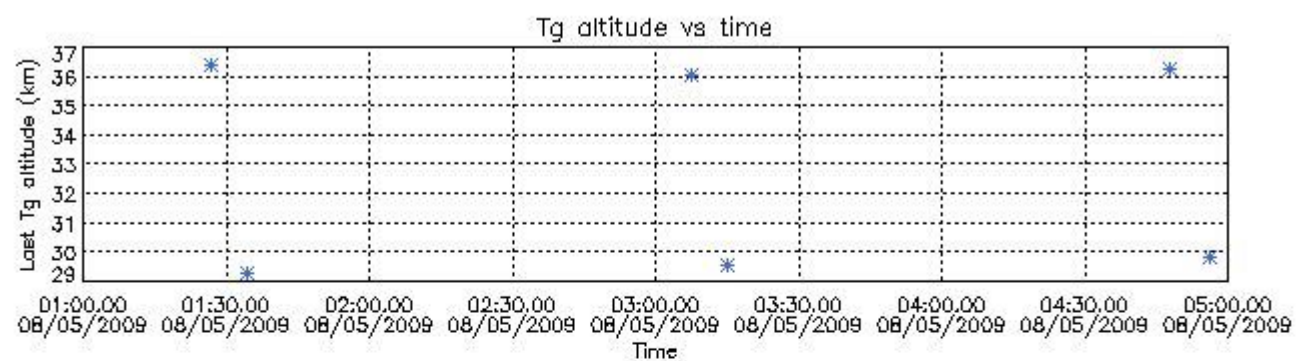
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	32.877	23.222	NaN
St. deviation:	3.6494	4.9240	NaN
Maximum:	36.372	34.775	NaN
Minimum:	29.305	16.163	NaN
Number of data:	6.0000	23.000	NaN

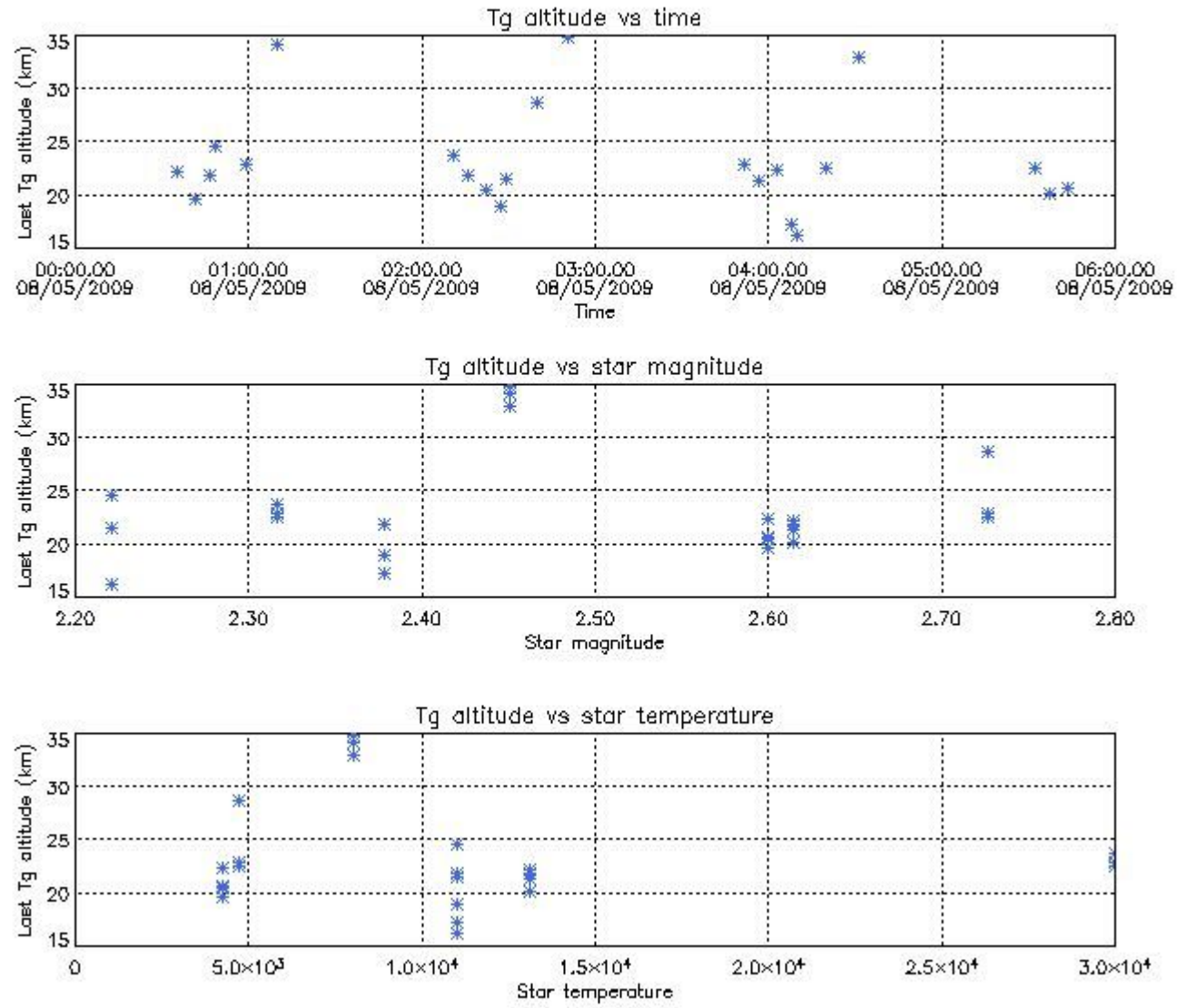
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

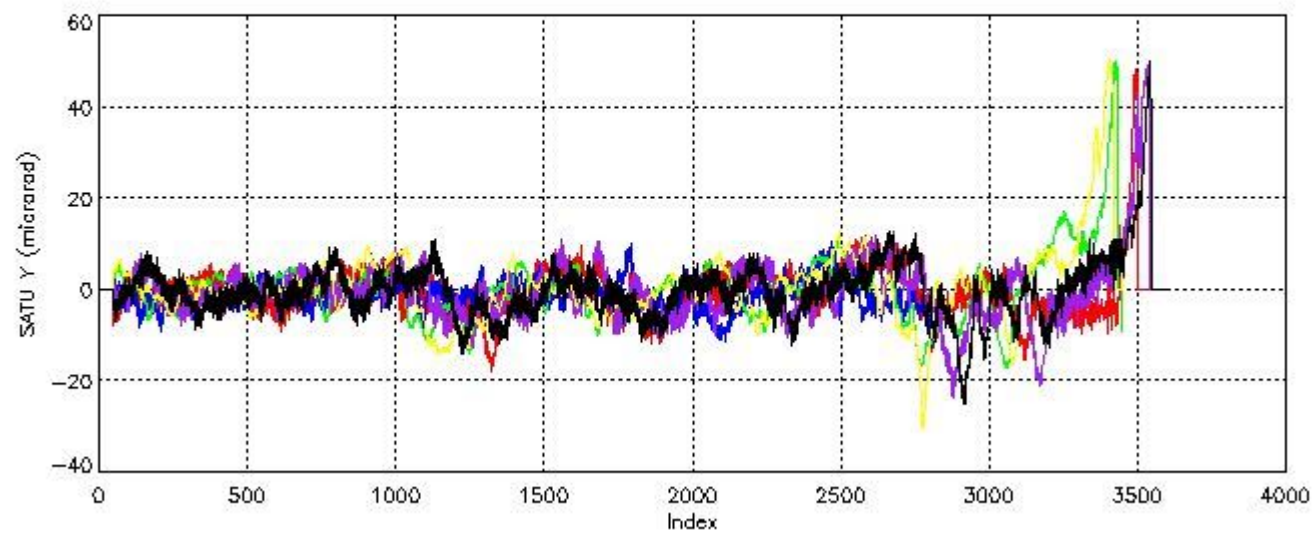
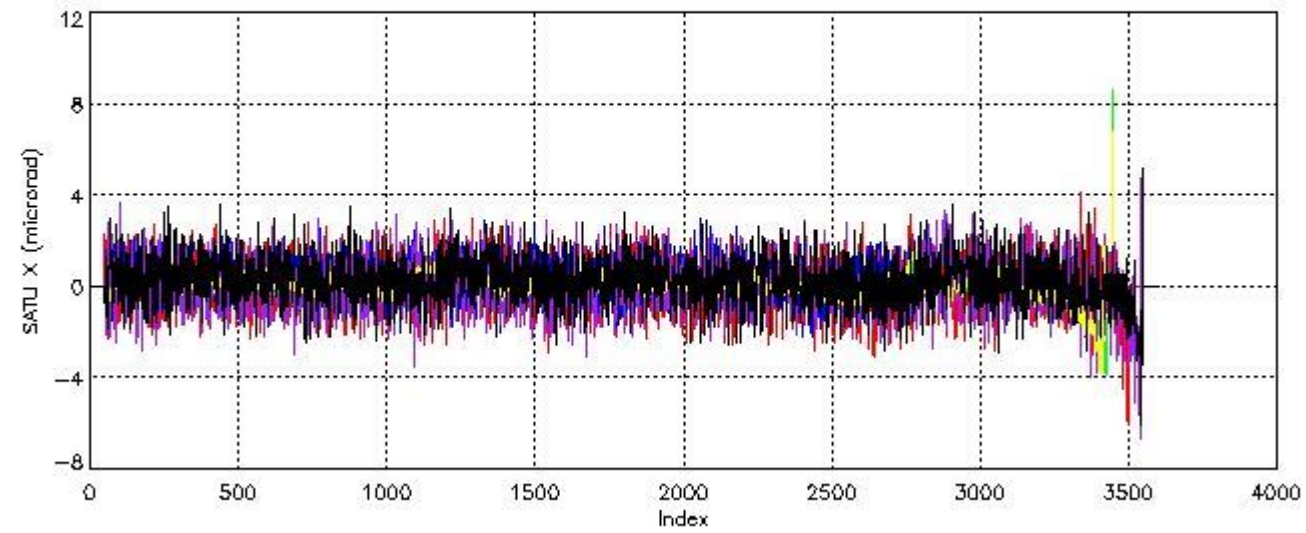


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25063	-0.70269	0.35505	-1.2462
St. deviation:	0.87260	2.8648	0.88175	3.4648
Maximum:	3.7000	9.2000	4.8000	12.700
Minimum:	-3.0000	-10.900	-4.2000	-20.600

Number of data:	7050.0	7050.0	24250.	24250.
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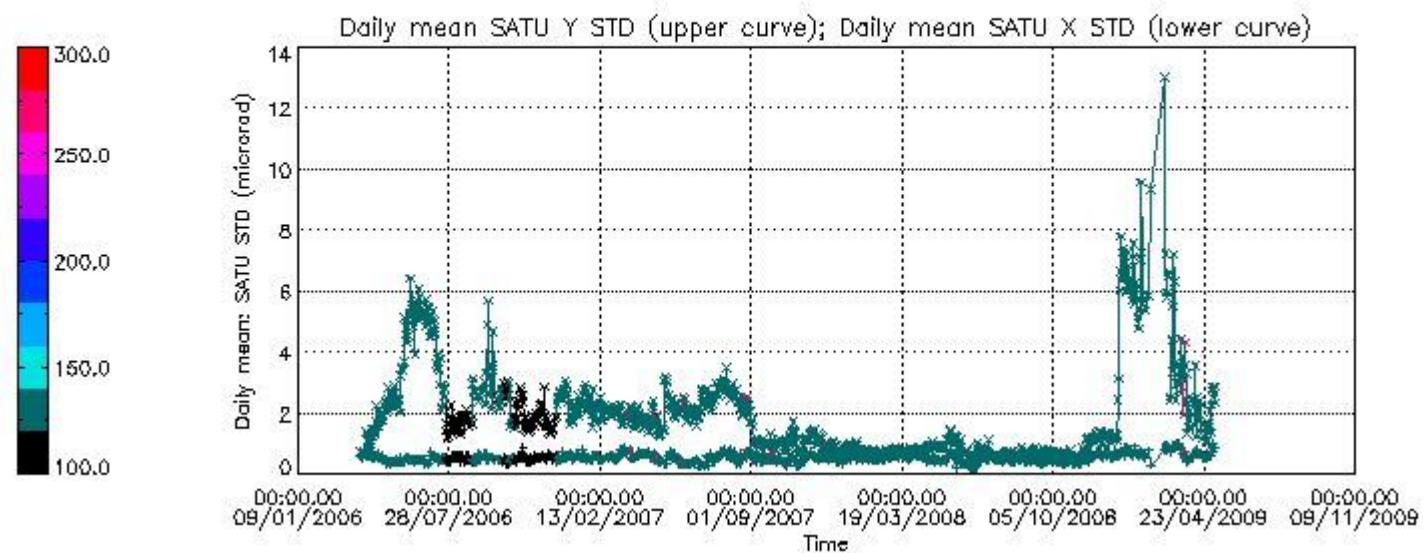
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

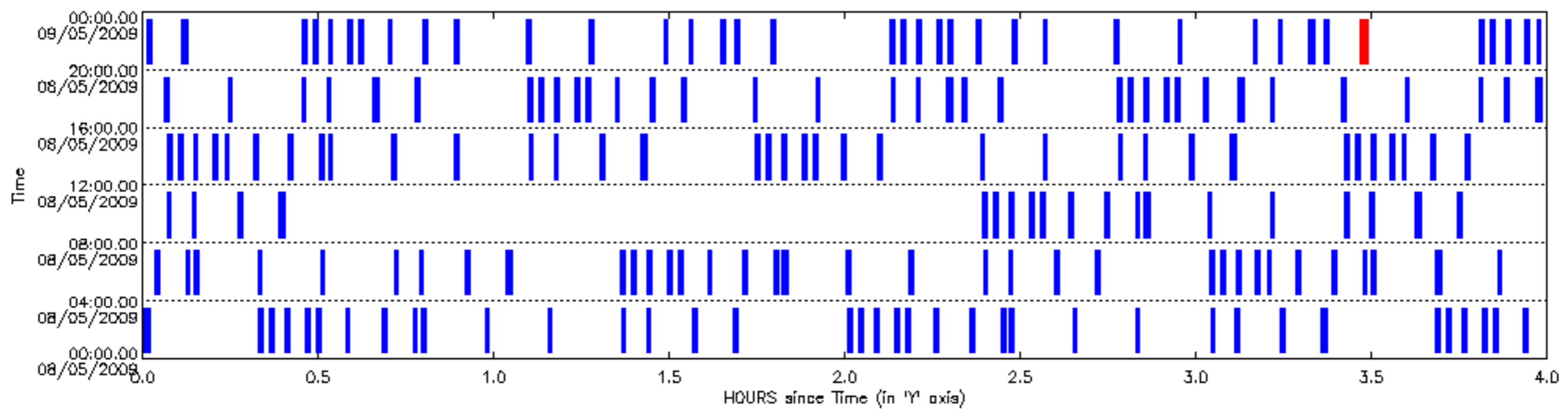
Lower curve: STD of SATU X axis

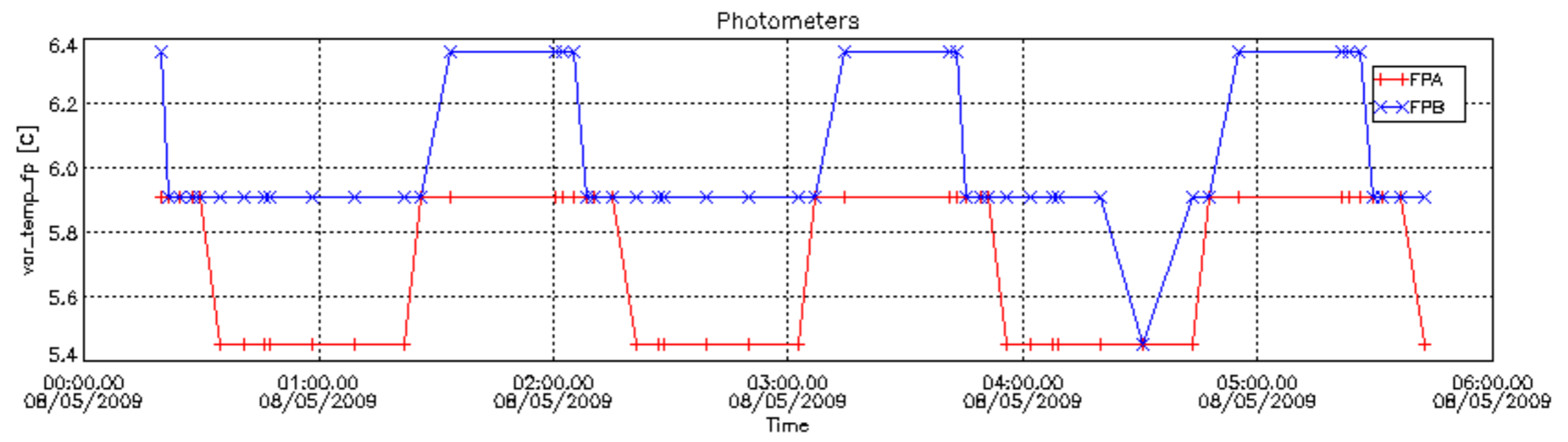
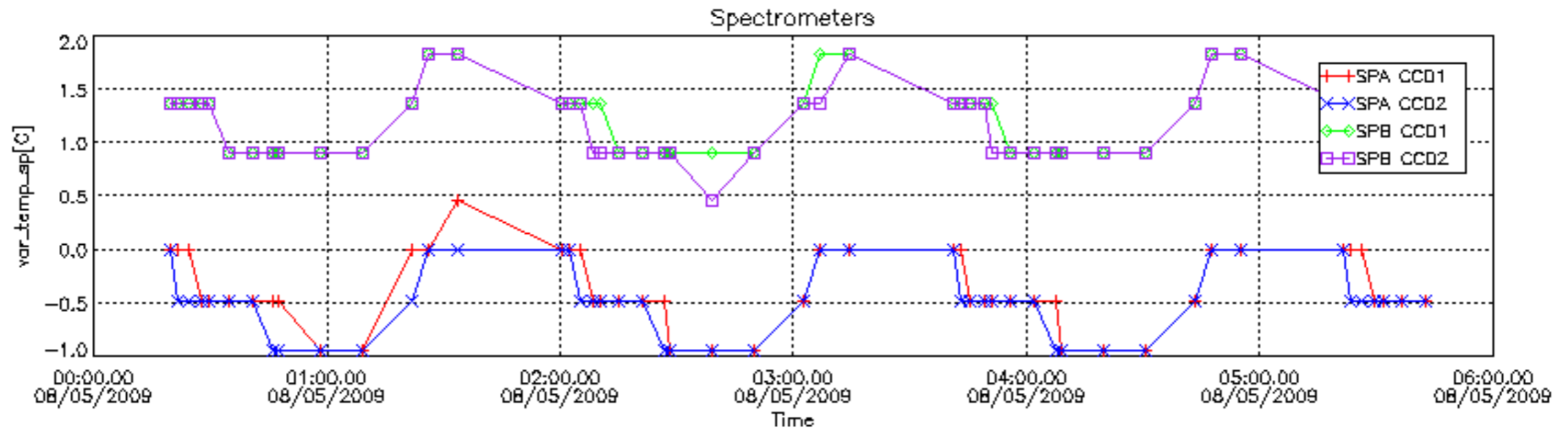


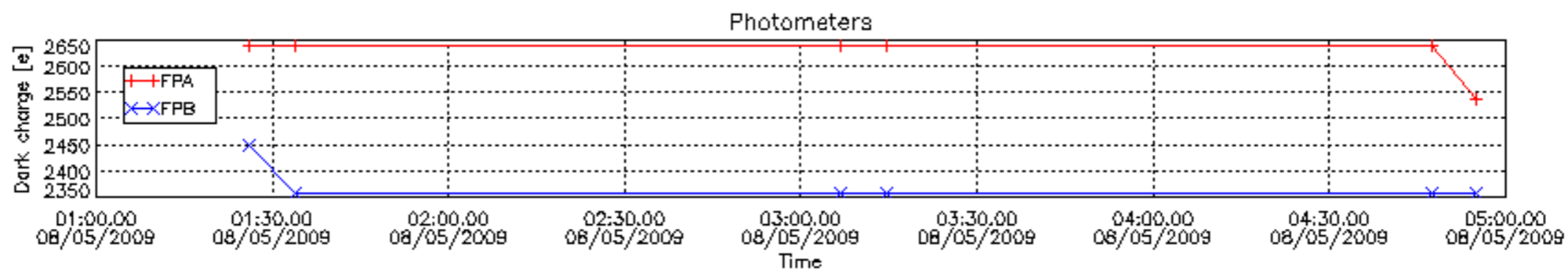
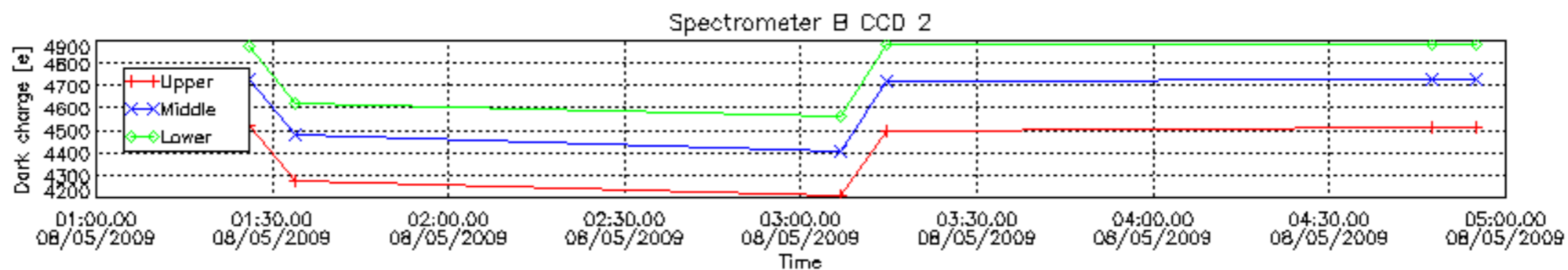
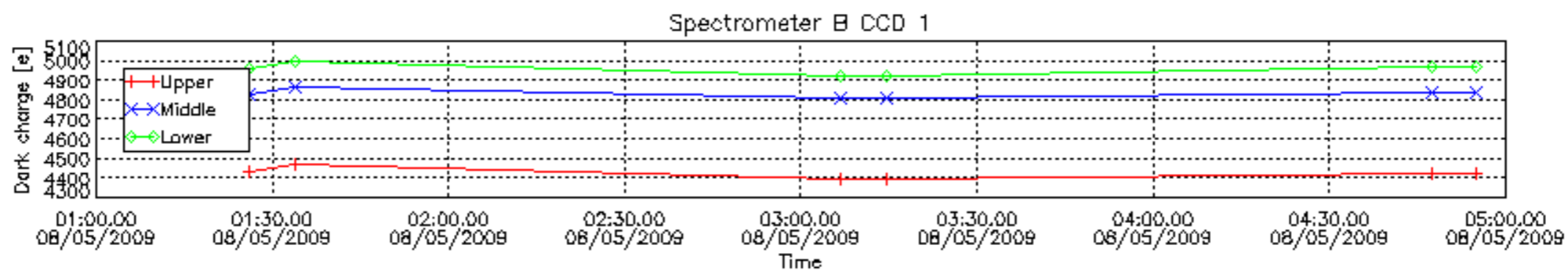
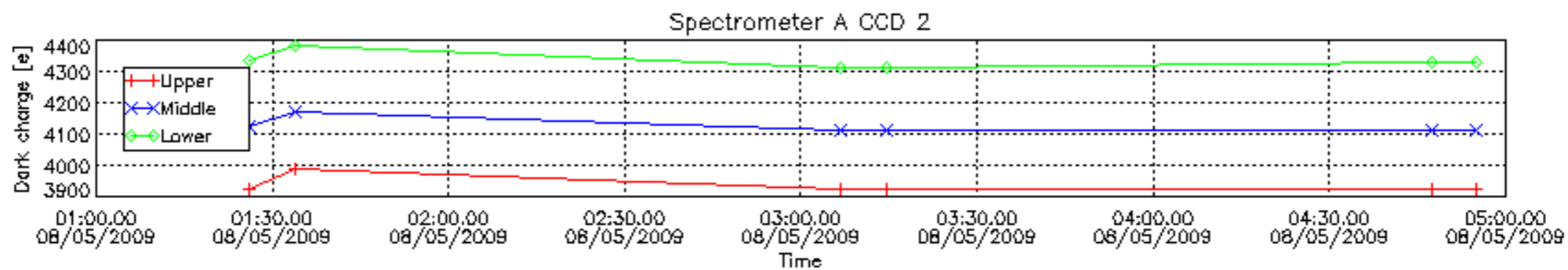
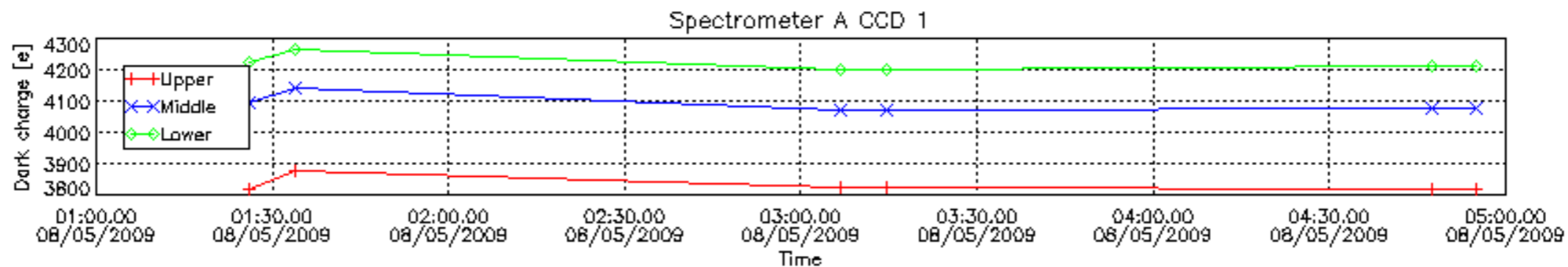
8. Auxiliary Data Files used for the production reported in section 2.4

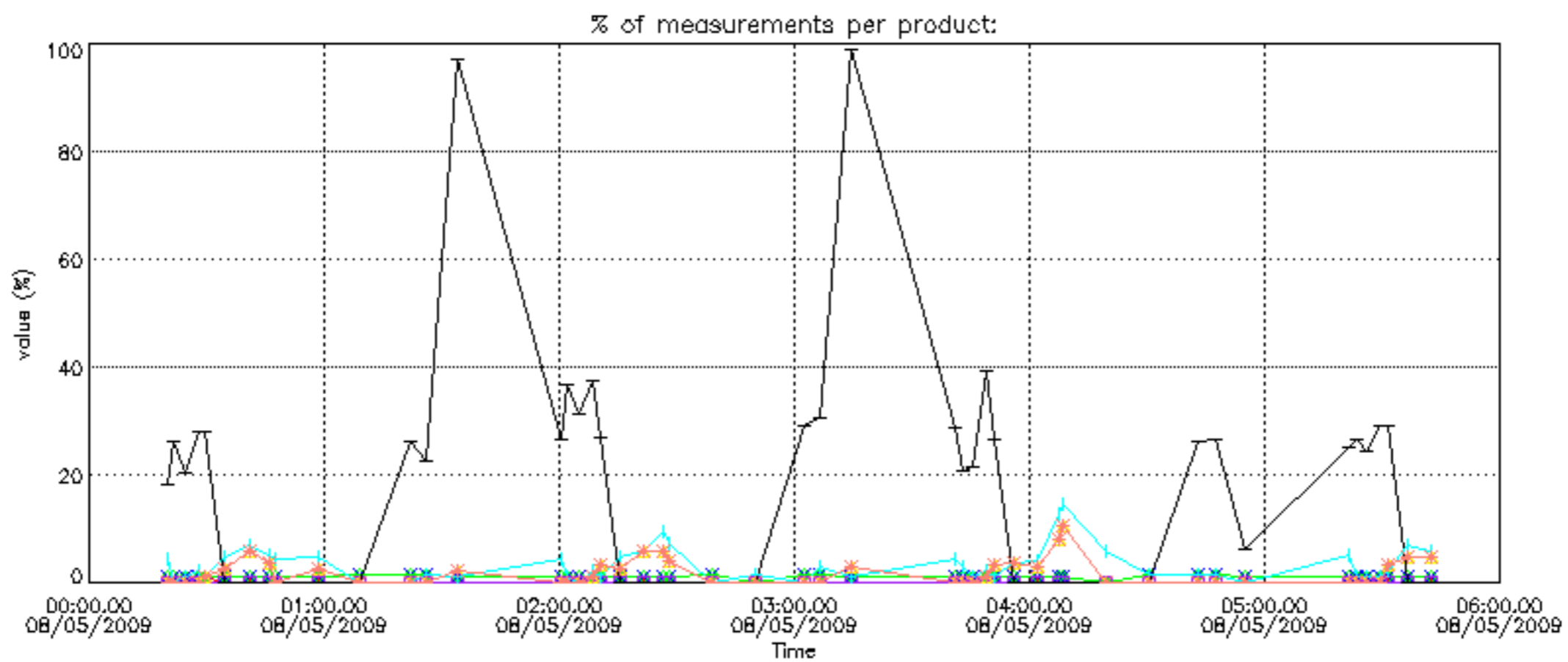
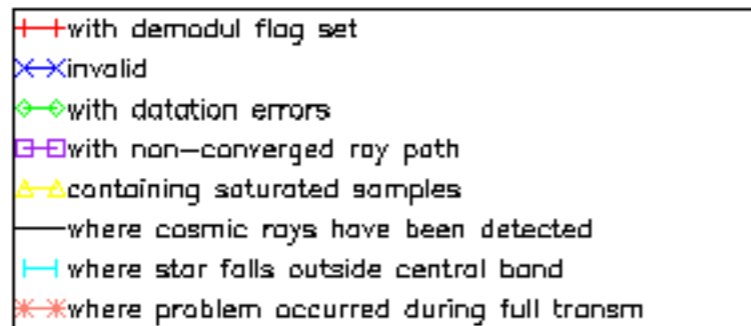
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-MAY-2009 00:19:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090430_144945_20090428_000000_20100101_000000	1	08-MAY-2009 00:19:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-MAY-2009 00:19:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-MAY-2009 00:19:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-MAY-2009 00:19:47
ECMWF_FILE	AUX_ECF_AXNECM20090507_064112_20090507_210000_20090508_090000	1	08-MAY-2009 00:19:47
OPTIONAL_ECMWF_FILE	MISSING	1	08-MAY-2009 00:19:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090507_221026_000057382078_00444_37572_7899.N1	1	08-MAY-2009 00:19:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090507_235123_000057382078_00445_37573_7900.N1	14	08-MAY-2009 01:33:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090508_013220_000041442078_00446_37574_7901.N1	26	08-MAY-2009 03:02:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090508_024643_000057382078_00447_37575_7902.N1	39	08-MAY-2009 04:30:22

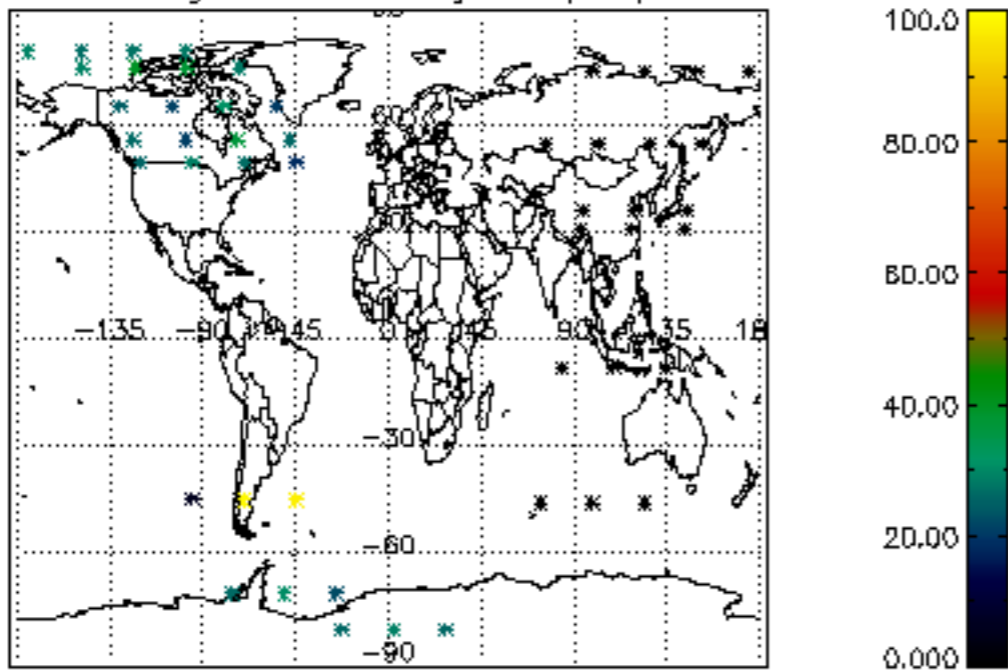




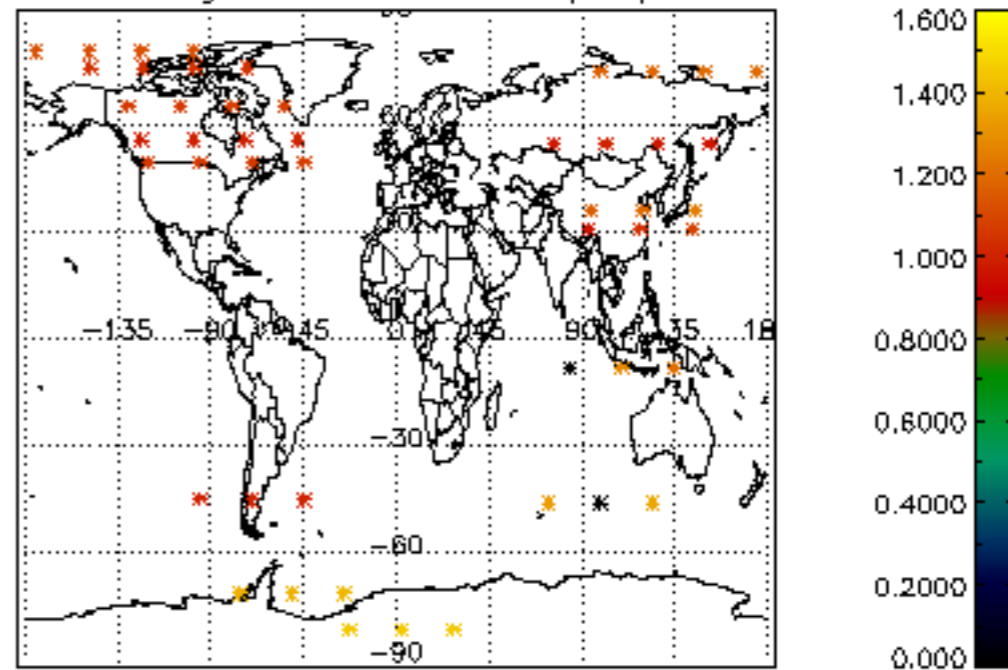




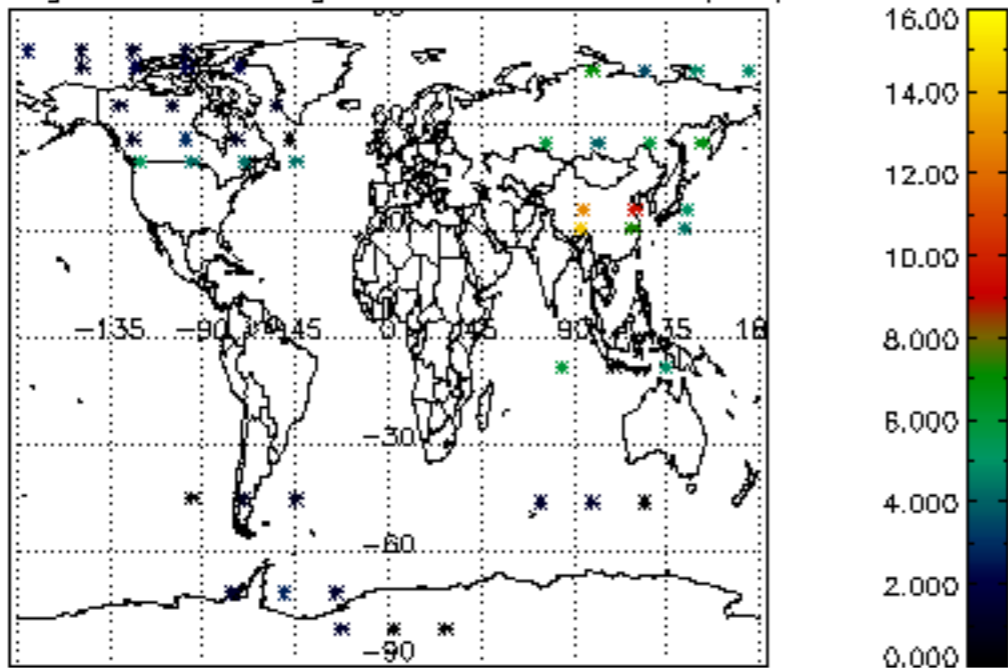
Percentage of cosmic ray hits per profile



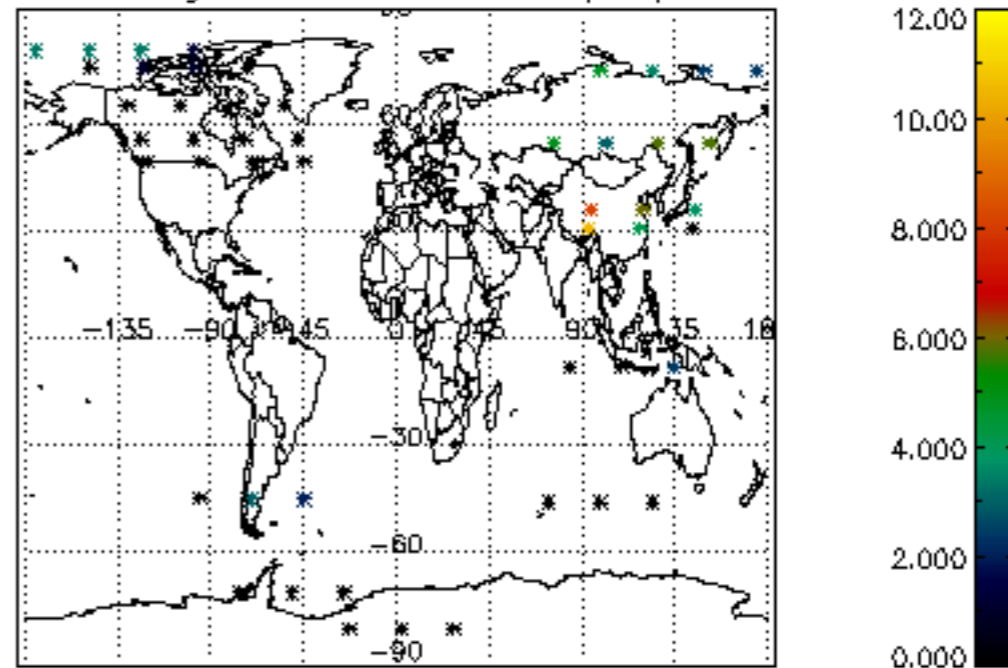
Percentage of datation errors per profile



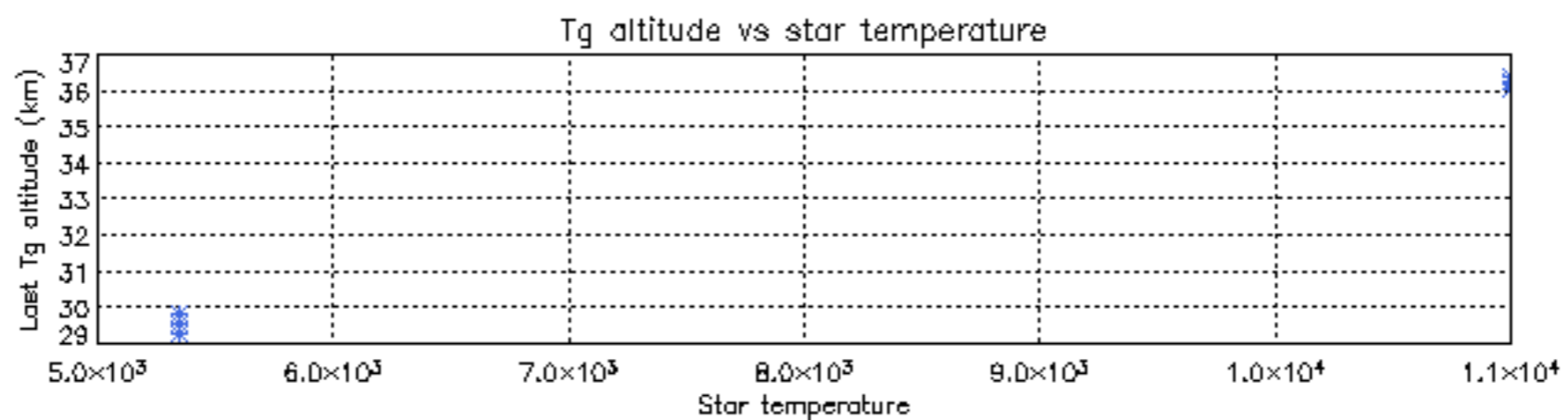
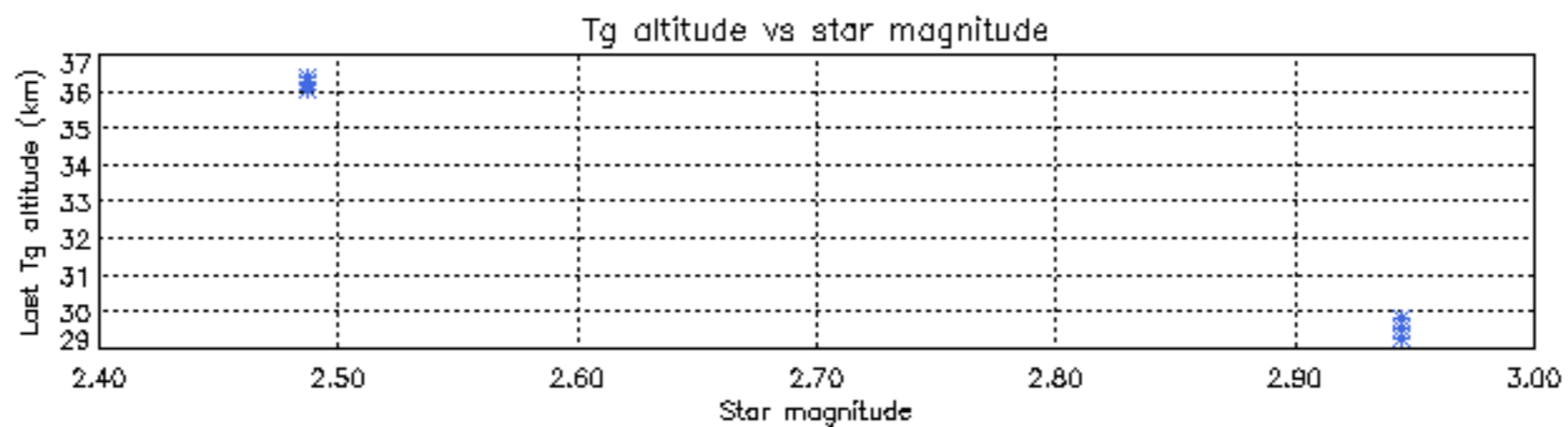
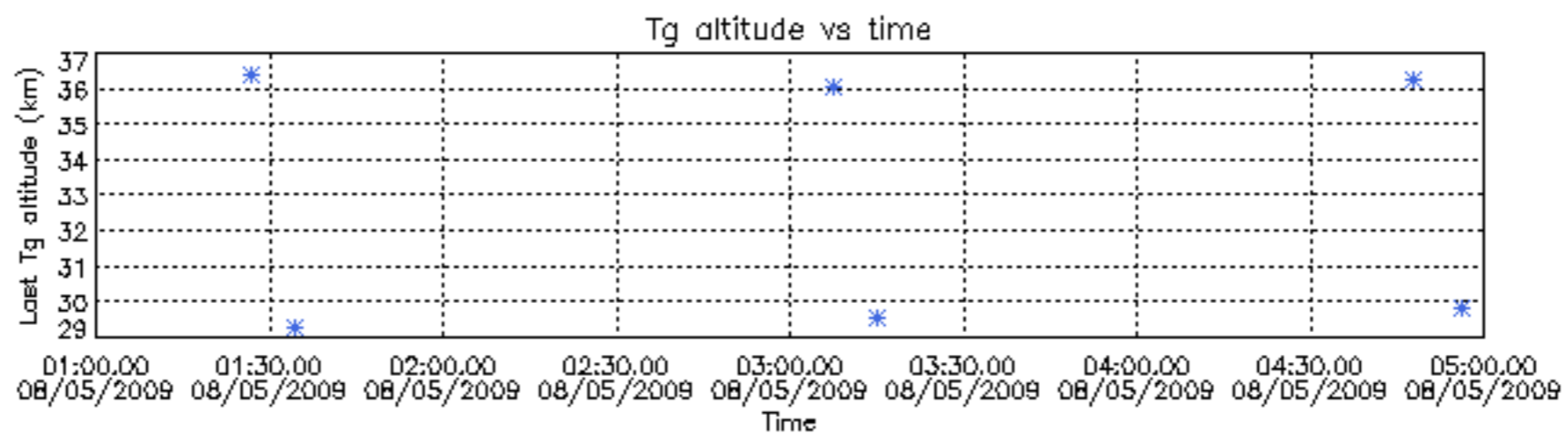
Percentage of star falling outside central band per profile



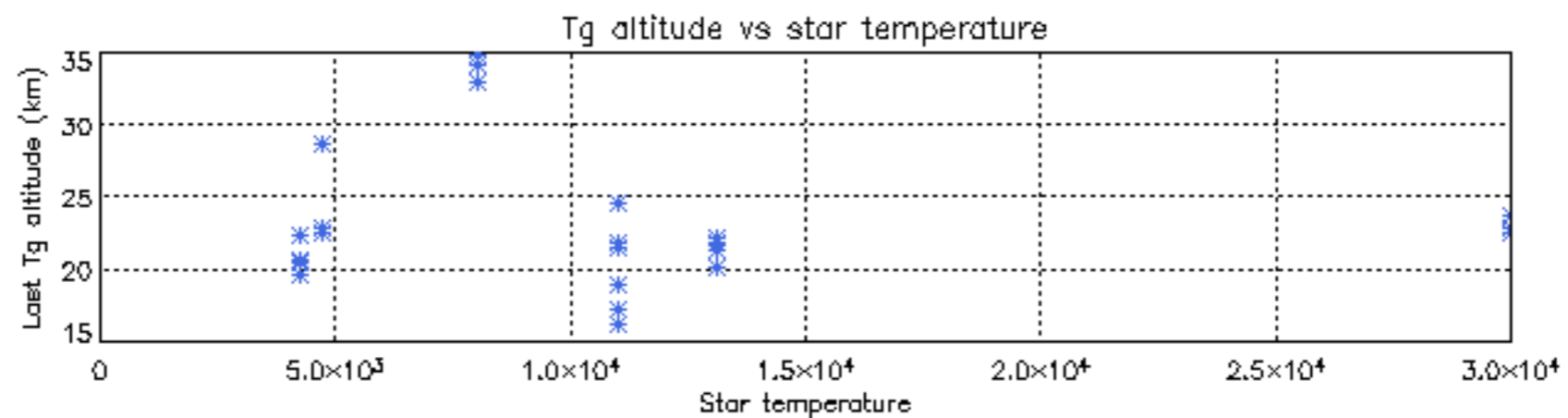
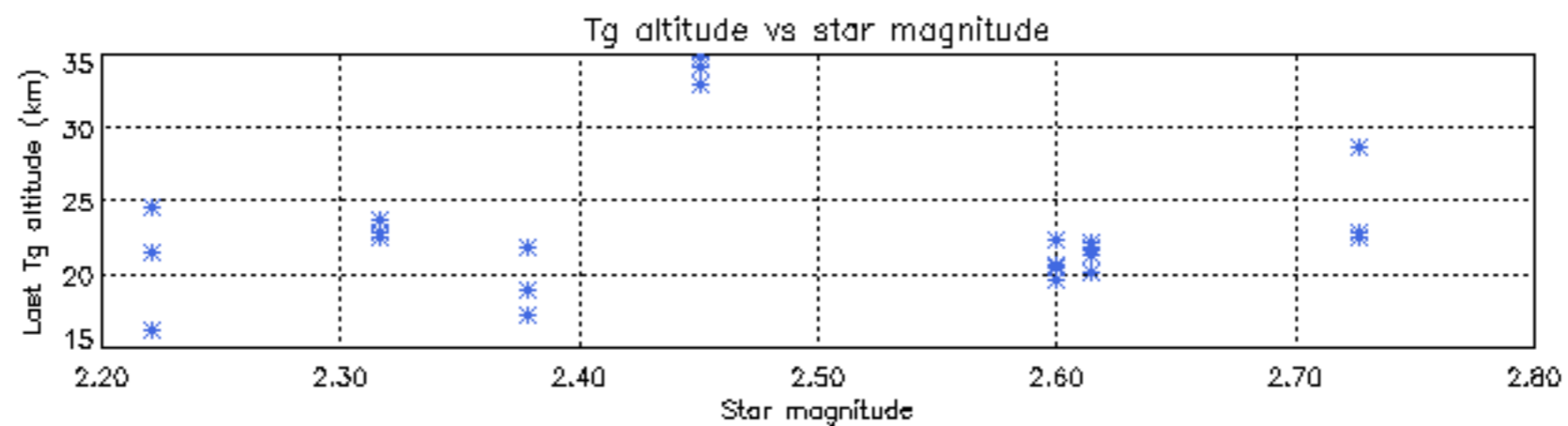
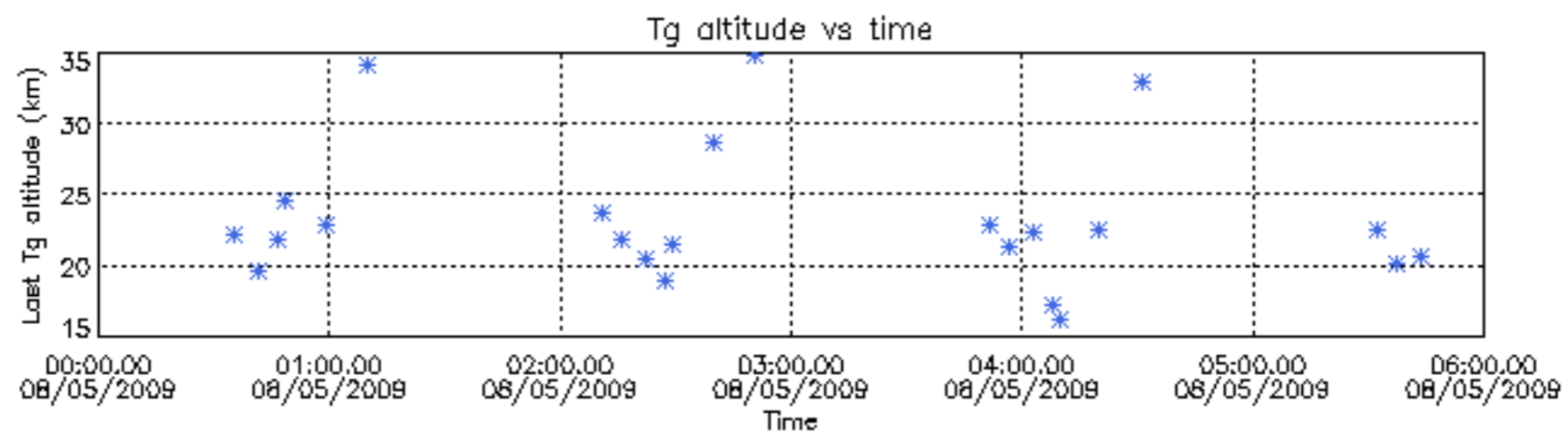
Percentage of saturation errors per profile

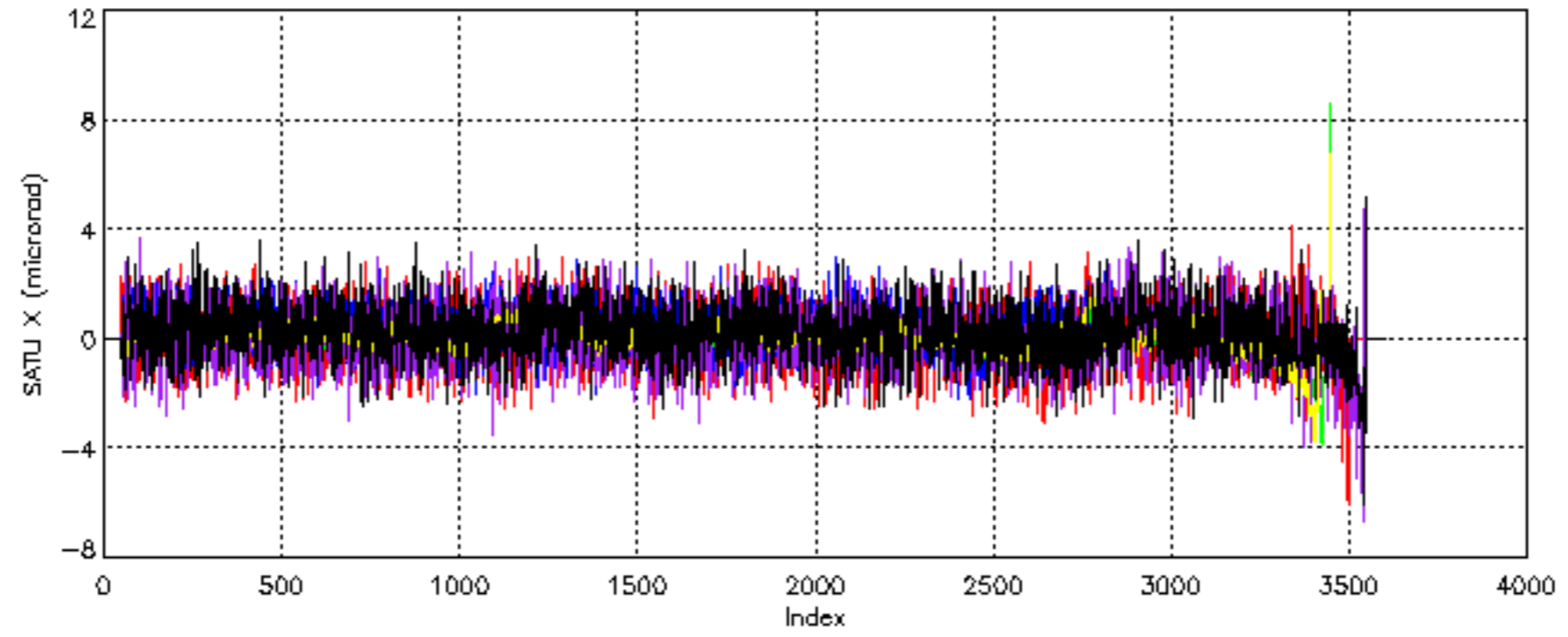


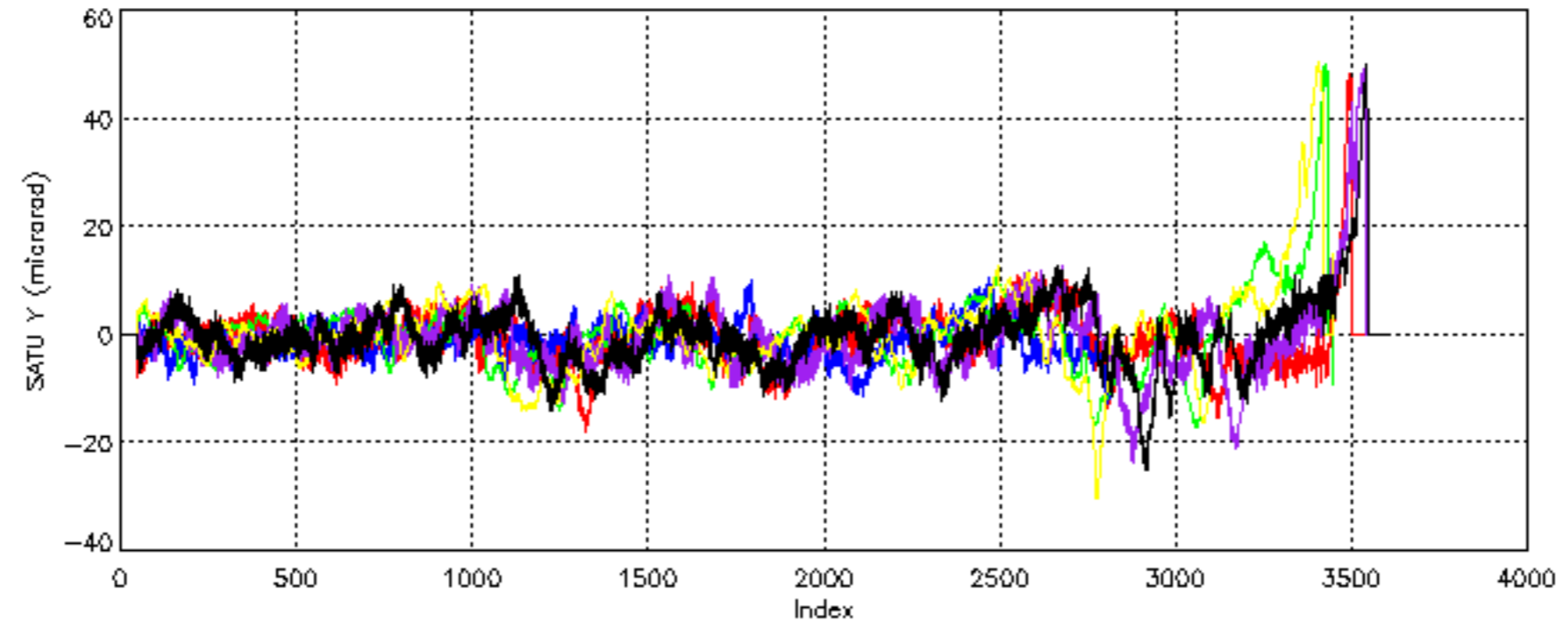
Tangent altitude at which the star is lost

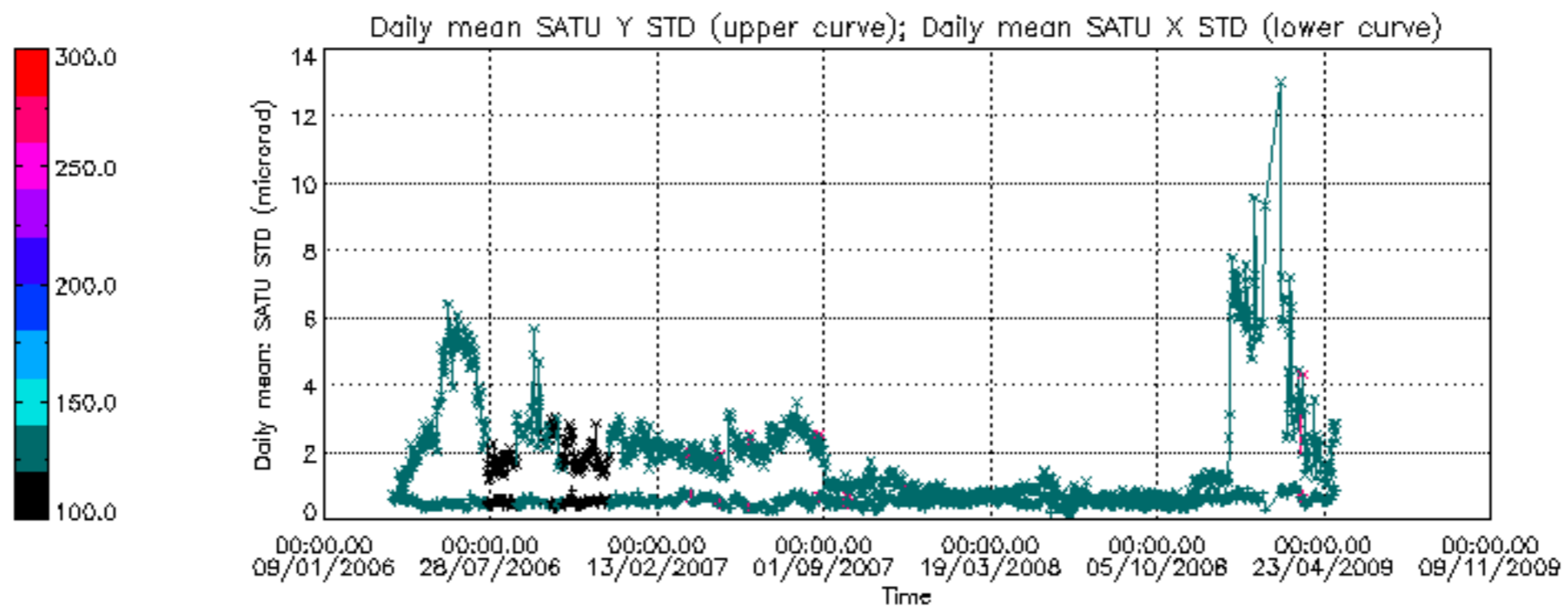


Tangent altitude at which the star is lost









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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
 6; -473.4; 01-MAY-2009 05:19:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37476
 7; 751.5; 01-MAY-2009 05:40:22; Dark ; 55.5; 40; The Sco ; 1.86; 7100;occ; 111; 0;37477
 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
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 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
7; 2261.0; 01-MAY-2009 21:10:55; Bright; 39.0; 3; 16Alp Boo ; -0.05; 4250;occ; 78; 0;37486
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
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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
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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
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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
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11; 2447.9; 02-MAY-2009 00:35:13; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37488
12; 2629.4; 02-MAY-2009 00:38:15; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37488
13; 3200.9; 02-MAY-2009 00:47:46; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37488
14; 3823.8; 02-MAY-2009 00:58:09; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37488
15; 4511.1; 02-MAY-2009 01:09:36; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37488
16; 5045.7; 02-MAY-2009 01:18:31; Dark ; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;37488
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 4; 2627.2; 02-MAY-2009 09:01:12; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37493
 5; 3197.7; 02-MAY-2009 09:10:43; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37493
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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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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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1; -794.6; 05-MAY-2009 21:34:43; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37543
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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1; 1726.1; 05-MAY-2009 07:11:20; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37535
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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13; 7455.6; 05-MAY-2009 15:29:13; Dark ; 9.5; 80; 7Del Sco ; 2.32; 30000;occ; 19; 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
10; 5643.0; 05-MAY-2009 16:39:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37540
11; 6841.3; 05-MAY-2009 16:59:35; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;37540
12; 6951.0; 05-MAY-2009 17:01:25; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37540
13; 7122.1; 05-MAY-2009 17:04:16; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37540
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2; 1297.4; 05-MAY-2009 17:07:47; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37541
3; 1420.1; 05-MAY-2009 17:09:50; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37541
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5; 2424.5; 05-MAY-2009 17:26:34; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;37541
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7;	2562.2;	27-MAY-2009	19:18:07;	Bright;	36.5;	133;	40Zet Her ;	2.81;	6000;occ;	73;	0;	37857
8;	3018.3;	27-MAY-2009	19:25:43;	Bright;	36.0;	130;	23Bet Dra ;	2.80;	5800;occ;	72;	0;	37857
9;	3663.5;	27-MAY-2009	19:36:28;	Bright;	33.0;	89;	5Alp Cep ;	2.45;	8000;occ;	66;	0;	37857
10;	4544.4;	27-MAY-2009	19:51:09;	Dark ;	28.0;	58;	21Alp And ;	2.07;	11000;occ;	56;	0;	37857
11;	4824.7;	27-MAY-2009	19:55:49;	Dark ;	28.5;	140;	88Gam Peg ;	2.83;	26000;occ;	57;	0;	37857
12;	5233.5;	27-MAY-2009	20:02:38;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	37857
13;	5843.3;	27-MAY-2009	20:12:48;	Dark ;	39.0;	18;	24Alp PsA ;	1.17;	9700;occ;	78;	0;	37857
14;	6184.5;	27-MAY-2009	20:18:29;	Dark ;	41.5;	172;	Gam Gru ;	3.00;	13100;occ;	83;	0;	37857

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2;	-188.6;	28-MAY-2009	01:14:39;	Dark ;	38.5;	18;	24Alp PsA ;	1.17;	9700;occ;	77;	0;	37860
3;	152.6;	28-MAY-2009	01:20:21;	Dark ;	41.5;	172;	Gam Gru ;	3.00;	13100;occ;	83;	0;	37861
4;	1040.8;	28-MAY-2009	01:35:09;	Dark ;	33.0;	178;	Iot1Sco ;	3.02;	6550;occ;	66;	0;	37861
5;	1119.8;	28-MAY-2009	01:36:28;	Dark ;	33.0;	25;	35Lam Sco ;	1.62;	28000;occ;	66;	0;	37861
6;	1585.8;	28-MAY-2009	01:44:14;	Bright;	36.0;	86;	35Eta Oph ;	2.43;	10200;occ;	72;	0;	37861
7;	1701.2;	28-MAY-2009	01:46:09;	Bright;	33.0;	98;	13Zet Oph ;	2.57;	30000;occ;	66;	0;	37861
8;	1835.6;	28-MAY-2009	01:48:24;	Bright;	32.0;	120;	1Del Oph ;	2.73;	3200;occ;	64;	0;	37861
9;	2346.0;	28-MAY-2009	01:56:54;	Bright;	36.0;	127;	27Bet Her ;	2.78;	4700;occ;	72;	0;	37861
10;	2559.6;	28-MAY-2009	02:00:28;	Bright;	36.5;	133;	40Zet Her ;	2.81;	6000;occ;	73;	0;	37861
11;	3015.3;	28-MAY-2009	02:08:03;	Bright;	36.0;	130;	23Bet Dra ;	2.80;	5800;occ;	72;	0;	37861
12;	3661.2;	28-MAY-2009	02:18:49;	Bright;	32.0;	89;	5Alp Cep ;	2.45;	8000;occ;	64;	0;	37861

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2;	-1209.5;	28-MAY-2009	02:38:15;	Dark ;	29.0;	140;	88Gam Peg ;	2.83;	26000;occ;	58;	0;	37861
3;	-799.5;	28-MAY-2009	02:45:05;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	37861
4;	-187.5;	28-MAY-2009	02:55:16;	Dark ;	38.0;	18;	24Alp PsA ;	1.17;	9700;occ;	76;	0;	37861
5;	153.9;	28-MAY-2009	03:00:58;	Dark ;	41.5;	172;	Gam Gru ;	3.00;	13100;occ;	83;	0;	37862
6;	1041.0;	28-MAY-2009	03:15:45;	Dark ;	33.5;	178;	Iot1Sco ;	3.02;	6550;occ;	67;	0;	37862
7;	1119.8;	28-MAY-2009	03:17:04;	Dark ;	33.5;	25;	35Lam Sco ;	1.62;	28000;occ;	67;	0;	37862
8;	1585.9;	28-MAY-2009	03:24:50;	Bright;	36.0;	86;	35Eta Oph ;	2.43;	10200;occ;	72;	0;	37862
9;	1701.1;	28-MAY-2009	03:26:45;	Bright;	33.0;	98;	13Zet Oph ;	2.57;	30000;occ;	66;	0;	37862
10;	1835.7;	28-MAY-2009	03:29:00;	Bright;	31.5;	120;	1Del Oph ;	2.73;	3200;occ;	63;	0;	37862
11;	2345.9;	28-MAY-2009	03:37:30;	Bright;	35.5;	127;	27Bet Her ;	2.78;	4700;occ;	71;	0;	37862
12;	2559.0;	28-MAY-2009	03:41:03;	Bright;	36.5;	133;	40Zet Her ;	2.81;	6000;occ;	73;	0;	37862
13;	3014.4;	28-MAY-2009	03:48:38;	Bright;	36.0;	130;	23Bet Dra ;	2.80;	5800;occ;	72;	0;	37862
14;	3660.7;	28-MAY-2009	03:59:25;	Bright;	6.5;	89;	5Alp Cep ;	2.45;	8000;occ;	13;	0;	37862

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1;	-2375.3;	28-MAY-2009	03:59:25;	Bright;	32.5;	89;	5Alp Cep ;	2.45;	8000;occ;	65;	0;	37862
2;	-1490.7;	28-MAY-2009	04:14:09;	Dark ;	28.0;	58;	21Alp And ;	2.07;	11000;occ;	56;	0;	37862
3;	-1209.0;	28-MAY-2009	04:18:51;	Dark ;	29.0;	140;	88Gam Peg ;	2.83;	26000;occ;	58;	0;	37862
4;	-798.7;	28-MAY-2009	04:25:41;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	37862
5;	-186.8;	28-MAY-2009	04:35:53;	Dark ;	38.5;	18;	24Alp PsA ;	1.17;	9700;occ;	77;	0;	37862
6;	155.1;	28-MAY-2009	04:41:35;	Dark ;	41.5;	172;	Gam Gru ;	3.00;	13100;occ;	83;	0;	37863
7;	1041.3;	28-MAY-2009	04:56:21;	Dark ;	33.5;	178;	Iot1Sco ;	3.02;	6550;occ;	67;	0;	37863
8;	1120.3;	28-MAY-2009	04:57:40;	Dark ;	33.5;	25;	35Lam Sco ;	1.62;	28000;occ;	67;	0;	37863
9;	1586.1;	28-MAY-2009	05:05:26;	Bright;	35.5;	86;	35Eta Oph ;	2.43;	10200;occ;	71;	0;	37863
10;	1701.0;	28-MAY-2009	05:07:21;	Bright;	33.0;	98;	13Zet Oph ;	2.57;	30000;occ;	66;	0;	37863
11;	1835.2;	28-MAY-2009	05:09:35;	Bright;	32.0;	120;	1Del Oph ;	2.73;	3200;occ;	64;	0;	37863
12;	2345.2;	28-MAY-2009	05:18:05;	Bright;	35.5;	127;	27Bet Her ;	2.78;	4700;occ;	71;	0;	37863
13;	2558.4;	28-MAY-2009	05:21:38;	Bright;	36.5;	133;	40Zet Her ;	2.81;	6000;occ;	73;	0;	37863
14;	3013.9;	28-MAY-2009	05:29:14;	Bright;	36.0;	130;	23Bet Dra ;	2.80;	5800;occ;	72;	0;	37863
15;	3660.4;	28-MAY-2009	05:40:00;	Bright;	32.0;	89;	5Alp Cep ;	2.45;	8000;occ;	64;	0;	37863

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1;	-2344.1;	28-MAY-2009	05:40:32;	Bright;	32.5;	89;	5Alp Cep ;	2.45;	8000;occ;	65;	63;	37863
2;	-1490.5;	28-MAY-2009	05:54:46;	Dark ;	28.0;	58;	21Alp And ;	2.07;	11000;occ;	56;	0;	37863
3;	-1208.7;	28-MAY-2009	05:59:27;	Dark ;	29.0;	140;	88Gam Peg ;	2.83;	26000;occ;	58;	0;	37863
4;	-797.9;	28-MAY-2009	06:06:18;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	37863
5;	-185.5;	28-MAY-2009	06:16:30;	Dark ;	38.5;	18;	24Alp PsA ;	1.17;	9700;occ;	77;	0;	37863
6;	156.4;	28-MAY-2009	06:22:12;	Dark ;	41.5;	172;	Gam Gru ;	3.00;	13100;occ;	83;	0;	37864
7;	1041.9;	28-MAY-2009	06:36:58;	Dark ;	33.5;	178;	Iot1Sco ;	3.02;	6550;occ;	67;	0;	37864
8;	1121.4;	28-MAY-2009	06:38:17;	Dark ;	32.5;	25;	35Lam Sco ;	1.62;	28000;occ;	65;	0;	37864

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9; 1586.3; 28-MAY-2009 06:46:02; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;37864
10; 1701.7; 28-MAY-2009 06:47:58; Bright; 32.0; 98; 13Zet Oph ; 2.57; 30000;occ; 64; 0;37864
11; 1835.8; 28-MAY-2009 06:50:12; Bright; 31.0; 120; 1Del Oph ; 2.73; 3200;occ; 62; 0;37864
12; 2344.6; 28-MAY-2009 06:58:41; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;37864
13; 2557.8; 28-MAY-2009 07:02:14; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;37864
14; 3013.0; 28-MAY-2009 07:09:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;37864
15; 3659.7; 28-MAY-2009 07:20:36; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37864
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2; 1124.4; 28-MAY-2009 20:03:08; Dark ; 32.5; 25; 35Lam Sco ; 1.62; 28000;occ; 65; 0;37872
3; 1586.7; 28-MAY-2009 20:10:50; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;37872
4; 1701.3; 28-MAY-2009 20:12:45; Bright; 32.5; 98; 13Zet Oph ; 2.57; 30000;occ; 65; 0;37872
5; 1835.3; 28-MAY-2009 20:14:59; Bright; 31.0; 120; 1Del Oph ; 2.73; 3200;occ; 62; 0;37872
6; 2341.0; 28-MAY-2009 20:23:25; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;37872
7; 2553.0; 28-MAY-2009 20:26:57; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;37872
8; 3007.3; 28-MAY-2009 20:34:31; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37872
9; 3655.0; 28-MAY-2009 20:45:19; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37872
10; 4547.2; 28-MAY-2009 21:00:11; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37872
11; 4831.4; 28-MAY-2009 21:04:55; Dark ; 28.5; 140; 88Gam Peg ; 2.83; 26000;occ; 57; 0;37872
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3; 167.7; 28-MAY-2009 21:27:47; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;37873
4; 1046.5; 28-MAY-2009 21:42:26; Dark ; 33.0; 178; Iot1Sco ; 3.02; 6550;occ; 66; 0;37873
5; 1125.0; 28-MAY-2009 21:43:44; Dark ; 32.5; 25; 35Lam Sco ; 1.62; 28000;occ; 65; 0;37873
6; 1587.0; 28-MAY-2009 21:51:26; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;37873
7; 1701.6; 28-MAY-2009 21:53:21; Bright; 32.0; 98; 13Zet Oph ; 2.57; 30000;occ; 64; 0;37873
8; 1839.8; 28-MAY-2009 21:55:39; Bright; 26.0; 120; 1Del Oph ; 2.73; 3200;occ; 52; 0;37873
9; 2340.6; 28-MAY-2009 22:04:00; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;37873
10; 2552.5; 28-MAY-2009 22:07:32; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37873
11; 3006.7; 28-MAY-2009 22:15:06; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37873
12; 3654.5; 28-MAY-2009 22:25:54; Bright; 32.0; 89; 5Alp Cep ; 2.45; 8000;occ; 64; 0;37873
13; 4547.5; 28-MAY-2009 22:40:47; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37873
14; 4831.7; 28-MAY-2009 22:45:31; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37873
15; 5245.5; 28-MAY-2009 22:52:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37873
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2; 169.0; 28-MAY-2009 23:08:24; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;37874
3; 1047.2; 28-MAY-2009 23:23:03; Dark ; 32.5; 178; Iot1Sco ; 3.02; 6550;occ; 65; 0;37874
4; 1125.6; 28-MAY-2009 23:24:21; Dark ; 32.0; 25; 35Lam Sco ; 1.62; 28000;occ; 64; 0;37874
5; 1586.8; 28-MAY-2009 23:32:02; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;37874
6; 1701.4; 28-MAY-2009 23:33:57; Bright; 32.0; 98; 13Zet Oph ; 2.57; 30000;occ; 64; 0;37874
7; 2340.0; 28-MAY-2009 23:44:35; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;37874
8; 2551.6; 28-MAY-2009 23:48:07; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;37874
9; 3006.1; 28-MAY-2009 23:55:41; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37874
10; 3653.6; 29-MAY-2009 00:06:29; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37874
11; 4547.5; 29-MAY-2009 00:21:23; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37874
12; 4832.2; 29-MAY-2009 00:26:08; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37874
13; 5246.3; 29-MAY-2009 00:33:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37874
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3; -1208.1; 28-MAY-2009 07:40:04; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37864
4; -797.2; 28-MAY-2009 07:46:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37864
5; -184.5; 28-MAY-2009 07:57:07; Dark ; 38.5; 18; 24Alp PsA ; 1.17; 9700;occ; 77; 0;37864
6; 157.5; 28-MAY-2009 08:02:49; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;37865
7; 1042.5; 28-MAY-2009 08:17:34; Dark ; 33.0; 178; Iot1Sco ; 3.02; 6550;occ; 66; 0;37865
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9; 1586.4; 28-MAY-2009 08:26:38; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;37865
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2; 1835.3; 28-MAY-2009 08:30:47; Bright; 31.5; 120; 1Del Oph ; 2.73; 3200;occ; 63; 0;37865
3; 2344.4; 28-MAY-2009 08:39:16; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;37865
4; 2557.5; 28-MAY-2009 08:42:50; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;37865
5; 3012.3; 28-MAY-2009 08:50:24; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;37865
6; 3659.0; 28-MAY-2009 09:01:11; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37865
7; 4545.9; 28-MAY-2009 09:15:58; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37865

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8; 4828.3; 28-MAY-2009 09:20:40; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37865
9; 5239.5; 28-MAY-2009 09:27:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37865
10; 5852.2; 28-MAY-2009 09:37:44; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37865
11; 6194.9; 28-MAY-2009 09:43:27; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;37865
12; 7079.3; 28-MAY-2009 09:58:11; Dark ; 33.0; 178; Iot1Sco ; 3.02; 6550;occ; 66; 0;37865
13; 7157.7; 28-MAY-2009 09:59:30; Dark ; 33.0; 25; 35Lam Sco ; 1.62; 28000;occ; 66; 0;37865
14; 7622.3; 28-MAY-2009 10:07:14; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;37865
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2; 1835.6; 28-MAY-2009 10:11:23; Bright; 31.0; 120; 1Del Oph ; 2.73; 3200;occ; 62; 0;37866
3; 2343.6; 28-MAY-2009 10:19:51; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;37866
4; 2556.6; 28-MAY-2009 10:23:24; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;37866
5; 3011.6; 28-MAY-2009 10:30:59; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;37866
6; 3658.4; 28-MAY-2009 10:41:46; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37866
7; 4546.0; 28-MAY-2009 10:56:34; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37866
8; 4828.6; 28-MAY-2009 11:01:16; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37866
9; 5240.2; 28-MAY-2009 11:08:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37866
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6; 3008.9; 28-MAY-2009 17:13:20; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;37870
7; 3656.3; 28-MAY-2009 17:24:08; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37870
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3; 1587.1; 28-MAY-2009 18:30:15; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;37871
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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8; 3008.2; 28-MAY-2009 18:53:56; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;37871
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4; 1048.4; 29-MAY-2009 02:44:15; Dark ; 32.5; 178; Iot1Sco ; 3.02; 6550;occ; 65; 0;37876
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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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