

GOMOS Daily Report 12-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	16MAY2009 04:39:53
Data source version	GOMOS/5.00
Start time of products	12MAY2009 00:02:16
Stop time of products	12MAY2009 06:17:14
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

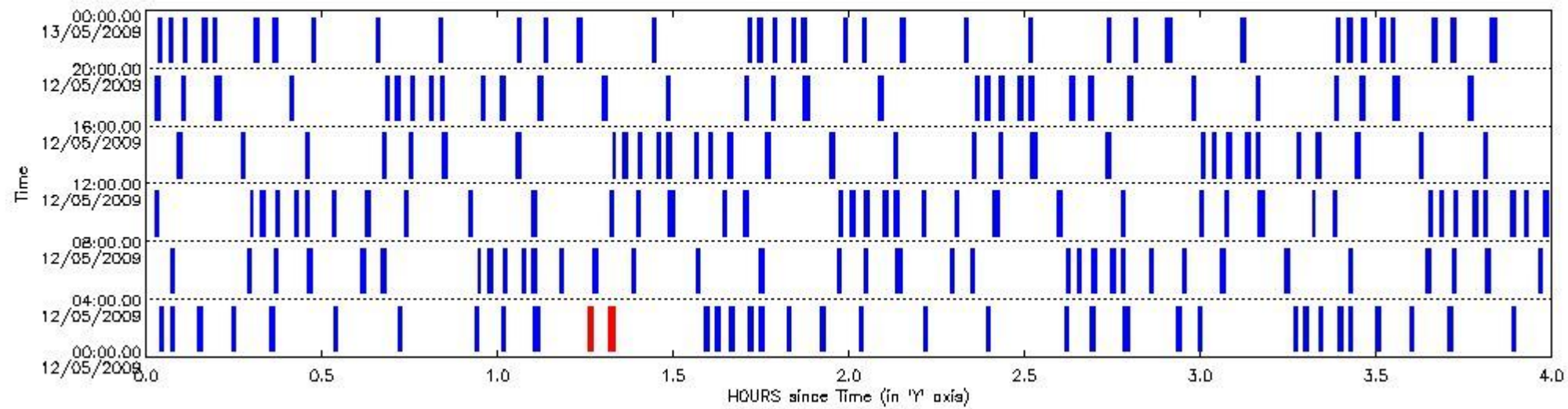
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

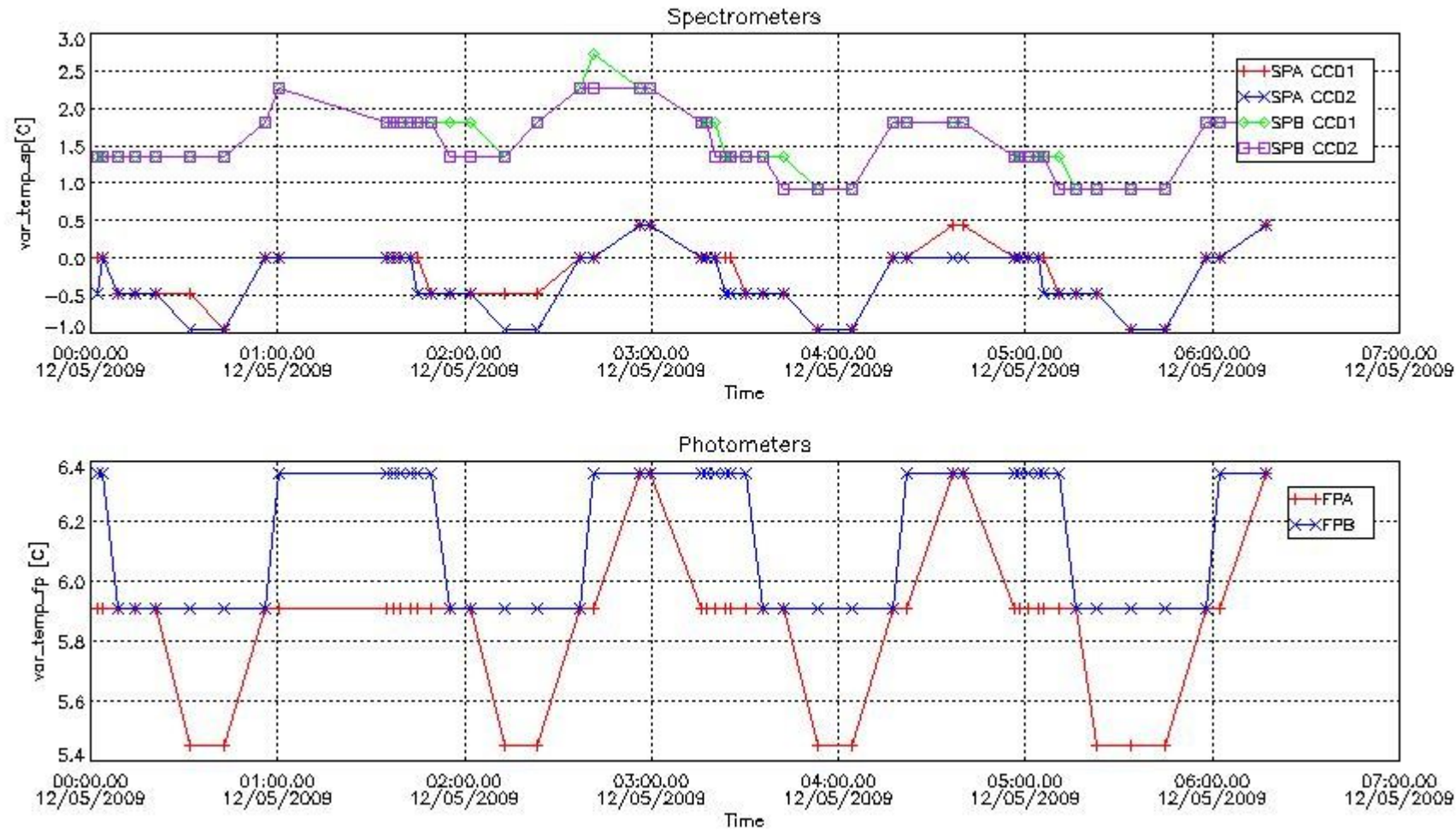
UTC start time	Star name	Star ID	Orbit
12-MAY-2009 01:15:22	49DelCap	142	37631
12-MAY-2009 01:18:56	GamGru	172	37631

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_1PNPDE20090512_000216_000000432079_00002_37631_1239.N1	12-MAY-2009 00:02:16	Twilight_stray	42.500	16	21Alp Sco	1.0200	3000.0	85	37631	No
2	GOM_TRA_1PNPDE20090512_000406_000000402079_00002_37631_1240.N1	12-MAY-2009 00:04:06	Bright	39.500	80	7Del Sco	2.3160	30000.	79	37631	No
3	GOM_TRA_1PNPDE20090512_000849_000000372079_00002_37631_1241.N1	12-MAY-2009 00:08:49	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	37631	No
4	GOM_TRA_1PNPDE20090512_001429_000000442079_00002_37631_1242.N1	12-MAY-2009 00:14:29	Bright	43.500	102	24Alp Ser	2.6000	4250.0	87	37631	No
5	GOM_TRA_1PNPDE20090512_002105_000000432079_00002_37631_1243.N1	12-MAY-2009 00:21:05	Bright	43.000	67	5Alp CrB	2.2210	11000.	86	37631	No
6	GOM_TRA_1PNPDE20090512_003204_000000382079_00002_37631_1244.N1	12-MAY-2009 00:32:04	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37631	No
7	GOM_TRA_1PNPDE20090512_004256_000000362079_00002_37631_1245.N1	12-MAY-2009 00:42:56	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	37631	No
8	GOM_TRA_1PNPDE20090512_005611_000000342079_00002_37631_1246.N1	12-MAY-2009 00:56:11	Twilight_stray	34.000	93	53Bet Peg	2.5200	3100.0	68	37631	No
9	GOM_TRA_1PNPDE20090512_010038_000000362079_00002_37631_1247.N1	12-MAY-2009 01:00:38	Dark	35.500	90	54Alp Peg	2.4870	11000.	71	37631	No

10	GOM_TRA_1PNPDE20090512_013514_000000422079_00003_37632_1380.N1	12-MAY-2009 01:35:14	Straylight	42.000	40	The Sco	1.8590	7100.0	84	37632	No
11	GOM_TRA_1PNPDE20090512_013705_000000452079_00003_37632_1381.N1	12-MAY-2009 01:37:05	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37632	No
12	GOM_TRA_1PNPDE20090512_013937_000000422079_00003_37632_1382.N1	12-MAY-2009 01:39:37	Straylight	41.500	75	26Eps Sco	2.2910	4250.0	83	37632	No
13	GOM_TRA_1PNPDE20090512_014252_000000432079_00003_37632_1383.N1	12-MAY-2009 01:42:52	Twilight_and_stray	42.500	16	21Alp Sco	1.0200	3000.0	85	37632	No
14	GOM_TRA_1PNPDE20090512_014442_000000402079_00003_37632_1384.N1	12-MAY-2009 01:44:42	Bright	39.500	80	7Del Sco	2.3160	30000.	79	37632	No
15	GOM_TRA_1PNPDE20090512_014925_000000372079_00003_37632_1385.N1	12-MAY-2009 01:49:25	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	37632	No
16	GOM_TRA_1PNPDE20090512_015505_000000442079_00003_37632_1386.N1	12-MAY-2009 01:55:05	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	37632	No
17	GOM_TRA_1PNPDE20090512_020140_000000432079_00003_37632_1387.N1	12-MAY-2009 02:01:40	Bright	43.000	67	5Alp CrB	2.2210	11000.	86	37632	No
18	GOM_TRA_1PNPDE20090512_021239_000000382079_00003_37632_1388.N1	12-MAY-2009 02:12:39	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37632	No
19	GOM_TRA_1PNPDE20090512_022332_000000352079_00003_37632_1389.N1	12-MAY-2009 02:23:32	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37632	No
20	GOM_TRA_1PNPDE20090512_023647_000000342079_00003_37632_1542.N1	12-MAY-2009 02:36:47	Twilight_and_stray	34.000	93	53Bet Peg	2.5200	3100.0	68	37632	No
21	GOM_TRA_1PNPDE20090512_024115_000000362079_00003_37632_1543.N1	12-MAY-2009 02:41:15	Dark	35.500	90	54Alp Peg	2.4870	11000.	71	37632	No
22	GOM_TRA_1PNPDE20090512_025559_000000402079_00003_37632_1544.N1	12-MAY-2009 02:55:59	Dark	40.000	142	49Del Cap	2.8500	8900.0	80	37632	No
23	GOM_TRA_1PNPDE20090512_025933_000000412079_00003_37632_1545.N1	12-MAY-2009 02:59:33	Dark	41.000	172	Gam Gru	3.0030	13100.	82	37632	No
24	GOM_TRA_1PNPDE20090512_031551_000000422079_00004_37633_1546.N1	12-MAY-2009 03:15:51	Straylight	41.500	40	The Sco	1.8590	7100.0	83	37633	No
25	GOM_TRA_1PNPDE20090512_031742_000000452079_00004_37633_1547.N1	12-MAY-2009 03:17:42	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37633	No
26	GOM_TRA_1PNPDE20090512_032014_000000422079_00004_37633_1548.N1	12-MAY-2009 03:20:14	Straylight	41.500	75	26Eps Sco	2.2910	4250.0	83	37633	No
27	GOM_TRA_1PNPDE20090512_032328_000000432079_00004_37633_1549.N1	12-MAY-2009 03:23:28	Twilight_and_stray	42.500	16	21Alp Sco	1.0200	3000.0	85	37633	No
28	GOM_TRA_1PNPDE20090512_032518_000000402079_00004_37633_1550.N1	12-MAY-2009 03:25:18	Bright	39.500	80	7Del Sco	2.3160	30000.	79	37633	No
29	GOM_TRA_1PNPDE20090512_033001_000000372079_00004_37633_1551.N1	12-MAY-2009 03:30:01	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	37633	No
30	GOM_TRA_1PNPDE20090512_033540_000000442079_00004_37633_1552.N1	12-MAY-2009 03:35:40	Bright	43.500	102	24Alp Ser	2.6000	4250.0	87	37633	No
31	GOM_TRA_1PNPDE20090512_034216_000000442079_00004_37633_1553.N1	12-MAY-2009 03:42:16	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	37633	No
32	GOM_TRA_1PNPDE20090512_035315_000000382079_00004_37633_1554.N1	12-MAY-2009 03:53:15	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37633	No
33	GOM_TRA_1PNPDE20090512_040408_000000362079_00004_37633_1710.N1	12-MAY-2009 04:04:08	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	37633	No
34	GOM_TRA_1PNPDE20090512_041723_000000342079_00004_37633_1711.N1	12-MAY-2009 04:17:23	Twilight_and_stray	34.000	93	53Bet Peg	2.5200	3100.0	68	37633	No
35	GOM_TRA_1PNPDE20090512_042151_000000362079_00004_37633_1712.N1	12-MAY-2009 04:21:51	Dark	35.500	90	54Alp Peg	2.4870	11000.	71	37633	No
36	GOM_TRA_1PNPDE20090512_043637_000000402079_00004_37633_1713.N1	12-MAY-2009 04:36:37	Dark	40.000	142	49Del Cap	2.8500	8900.0	80	37633	No
37	GOM_TRA_1PNPDE20090512_044010_000000412079_00004_37633_1714.N1	12-MAY-2009 04:40:10	Dark	41.000	172	Gam Gru	3.0030	13100.	82	37633	No
38	GOM_TRA_1PNPDE20090512_045633_000000252079_00005_37634_1715.N1	12-MAY-2009 04:56:33	Straylight	25.000	38	20Eps Sgr	1.8360	11000.	50	37634	No
39	GOM_TRA_1PNPDE20090512_045819_000000452079_00005_37634_1716.N1	12-MAY-2009 04:58:19	Straylight	44.500	25	35Lam Sco	1.6200	28000.	89	37634	No
40	GOM_TRA_1PNPDE20090512_050050_000000422079_00005_37634_1717.N1	12-MAY-2009 05:00:50	Straylight	41.500	75	26Eps Sco	2.2910	4250.0	83	37634	No
41	GOM_TRA_1PNPDE20090512_050404_000000432079_00005_37634_1718.N1	12-MAY-2009 05:04:04	Twilight_and_stray	42.500	16	21Alp Sco	1.0200	3000.0	85	37634	No
42	GOM_TRA_1PNPDE20090512_050554_000000402079_00005_37634_1719.N1	12-MAY-2009 05:05:54	Bright	39.500	80	7Del Sco	2.3160	30000.	79	37634	No
43	GOM_TRA_1PNPDE20090512_051037_000000372079_00005_37634_1720.N1	12-MAY-2009 05:10:37	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	37634	No
44	GOM_TRA_1PNPDE20090512_051616_000000442079_00005_37634_1721.N1	12-MAY-2009 05:16:16	Bright	43.500	102	24Alp Ser	2.6000	4250.0	87	37634	No
45	GOM_TRA_1PNPDE20090512_052251_000000432079_00005_37634_1722.N1	12-MAY-2009 05:22:51	Bright	43.000	67	5Alp CrB	2.2210	11000.	86	37634	No
46	GOM_TRA_1PNPDE20090512_053350_000000382079_00005_37634_1723.N1	12-MAY-2009 05:33:50	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37634	No
47	GOM_TRA_1PNPDE20090512_054443_000000362079_00005_37634_1935.N1	12-MAY-2009 05:44:43	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	37634	No
48	GOM_TRA_1PNPDE20090512_055759_000000342079_00005_37634_1936.N1	12-MAY-2009 05:57:59	Twilight_and_stray	34.000	93	53Bet Peg	2.5200	3100.0	68	37634	No
49	GOM_TRA_1PNPDE20090512_060227_000000362079_00005_37634_1937.N1	12-MAY-2009 06:02:27	Dark	35.500	90	54Alp Peg	2.4870	11000.	71	37634	No
50	GOM_TRA_1PNPDE20090512_061714_000000332079_00005_37634_1938.N1	12-MAY-2009 06:17:14	Dark	33.000	142	49Del Cap	2.8500	8900.0	66	37634	No

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



4. Overview of dark signal processing per product

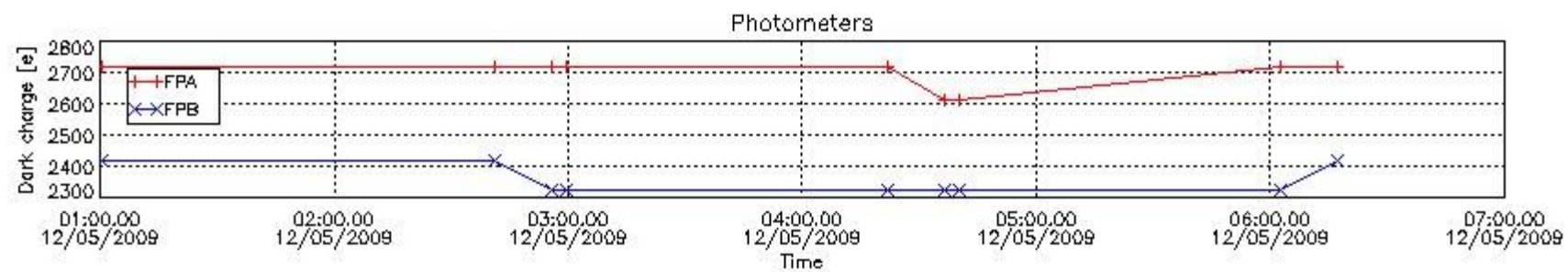
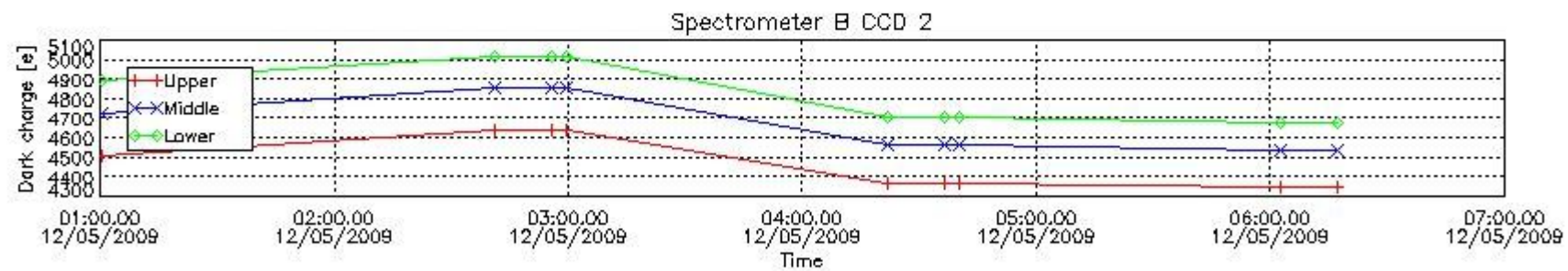
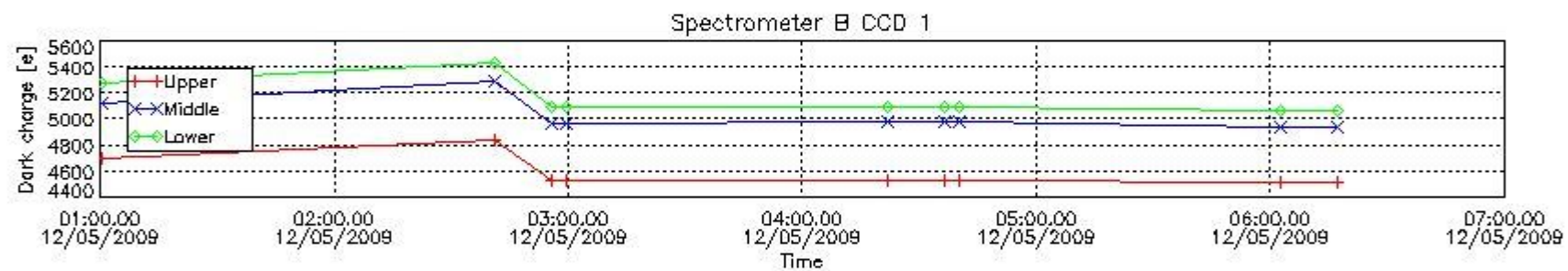
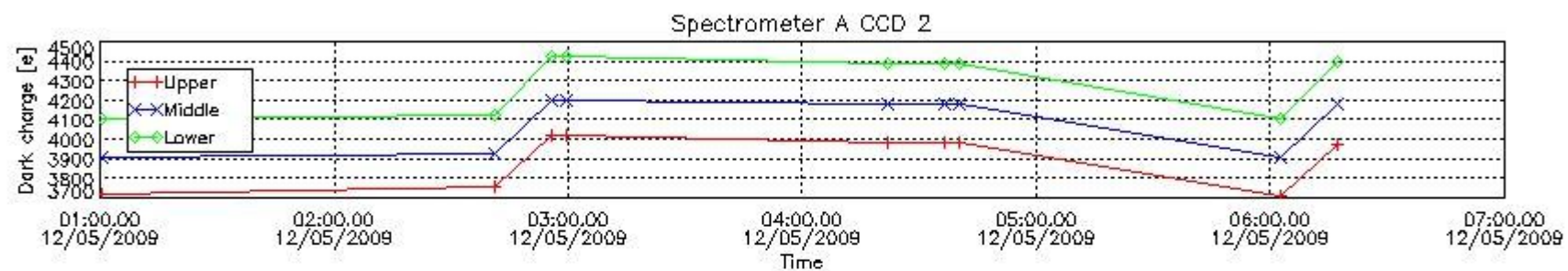
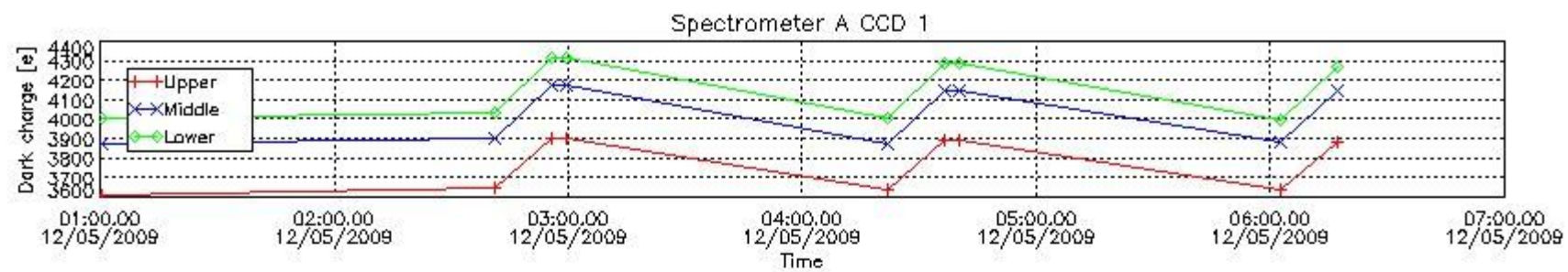
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090512_013514_000000422079_00003_37632_1380.N1	DC map used
GOM_TRA_1PNPDE20090512_013705_000000452079_00003_37632_1381.N1	DC map used
GOM_TRA_1PNPDE20090512_013937_000000422079_00003_37632_1382.N1	DC map used
GOM_TRA_1PNPDE20090512_014252_000000432079_00003_37632_1383.N1	DC map used
GOM_TRA_1PNPDE20090512_014442_000000402079_00003_37632_1384.N1	DC map used
GOM_TRA_1PNPDE20090512_014925_000000372079_00003_37632_1385.N1	DC map used
GOM_TRA_1PNPDE20090512_015505_000000442079_00003_37632_1386.N1	DC map used
GOM_TRA_1PNPDE20090512_020140_000000432079_00003_37632_1387.N1	DC map used
GOM_TRA_1PNPDE20090512_021239_000000382079_00003_37632_1388.N1	DC map used
GOM_TRA_1PNPDE20090512_022332_000000352079_00003_37632_1389.N1	DC map used

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



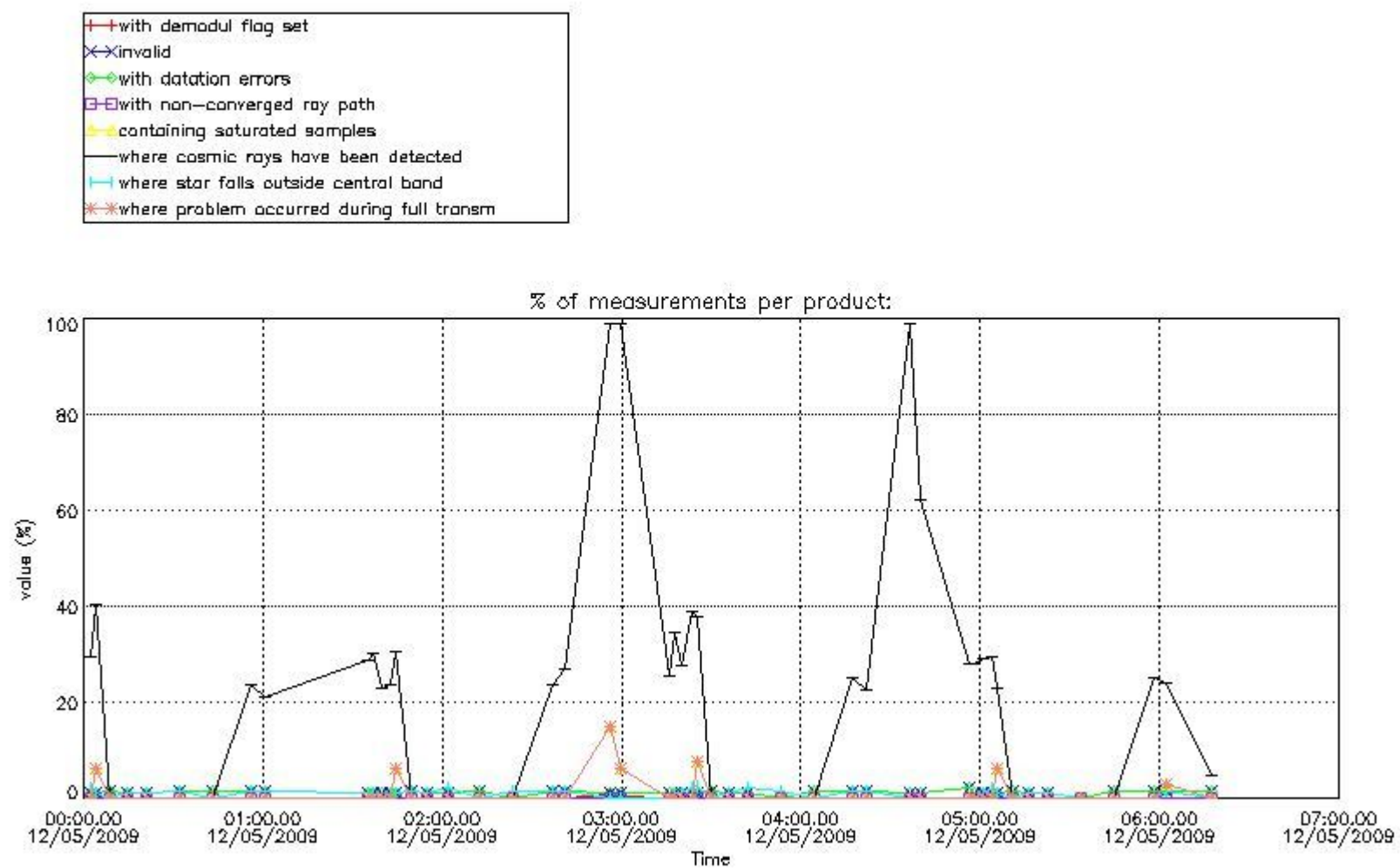
5. Demodulation flag and quality information monitoring

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.

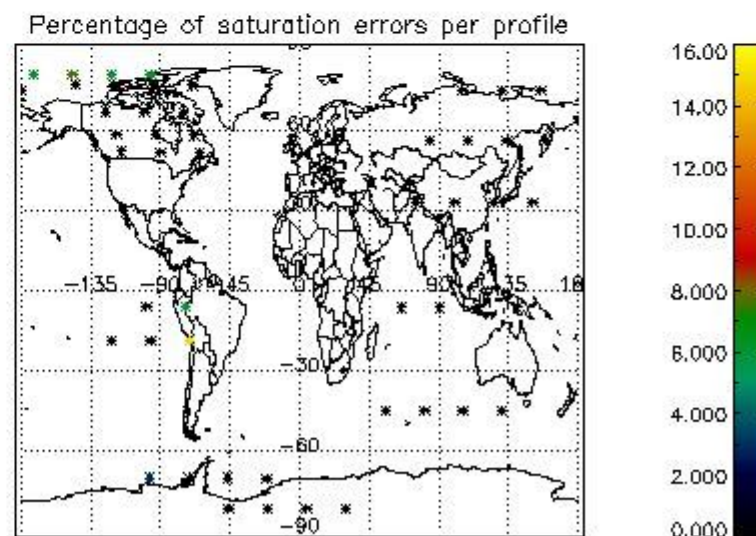
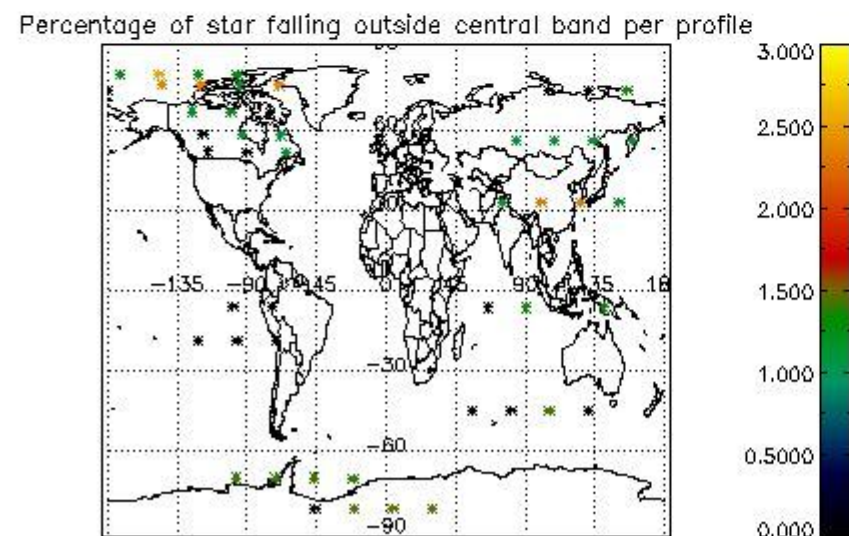
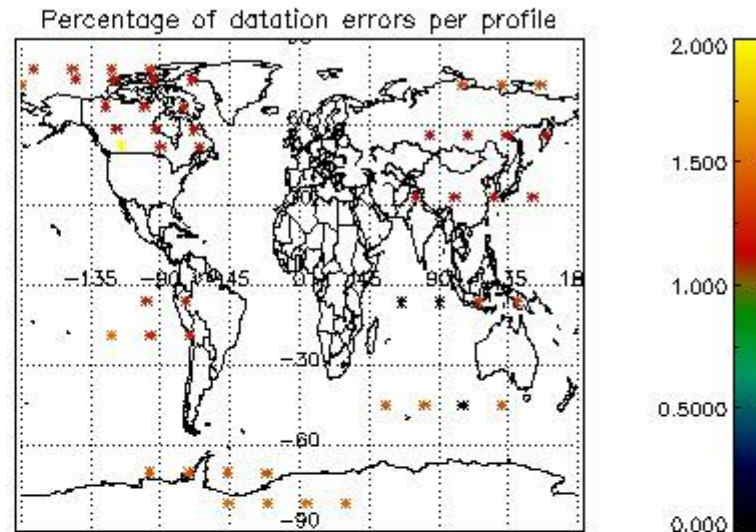
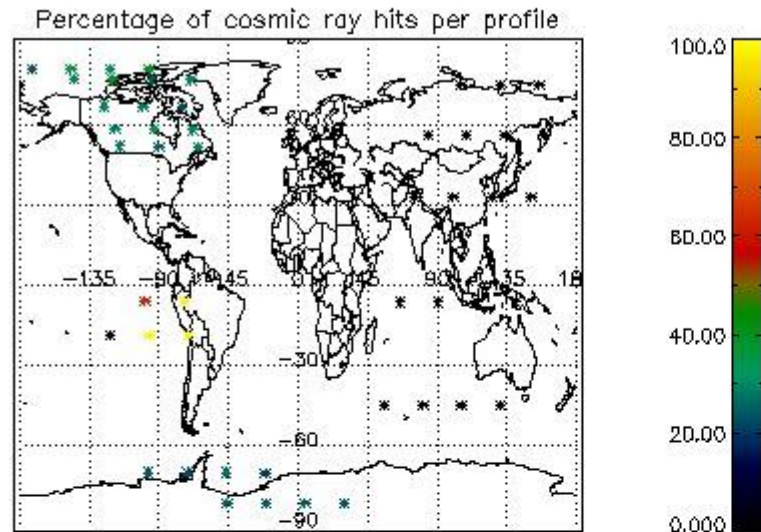
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
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)



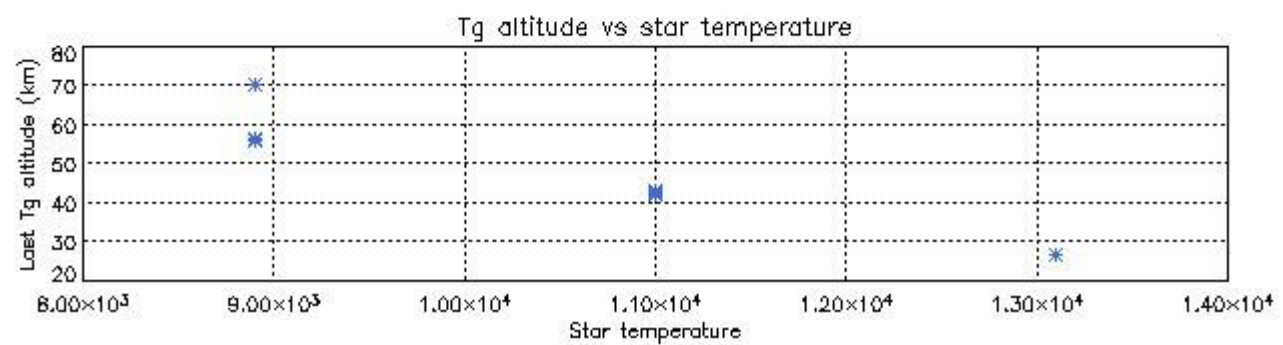
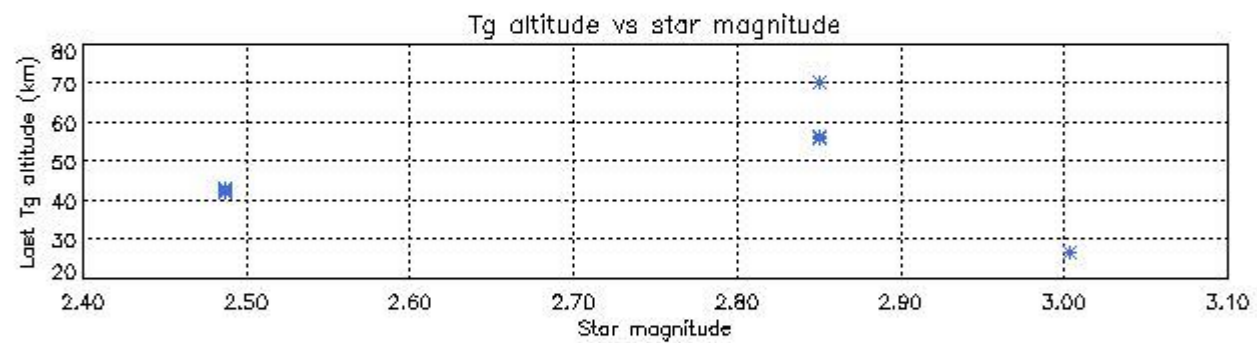
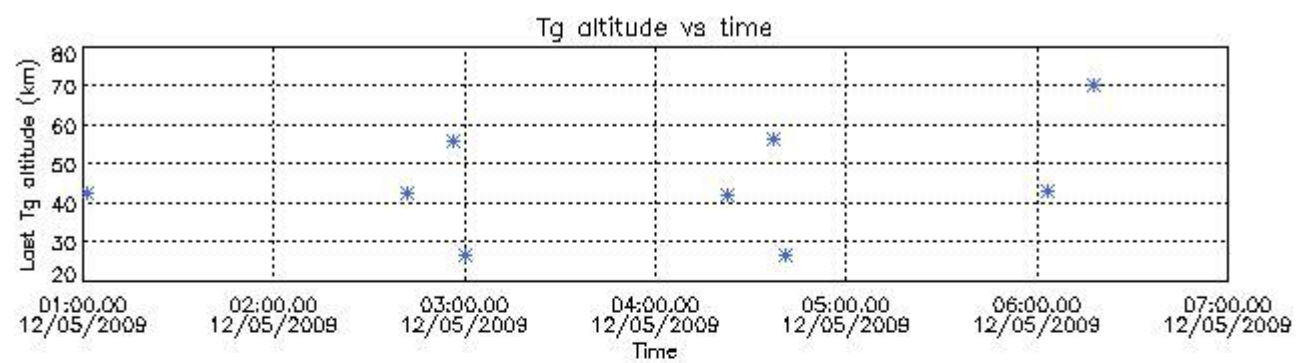
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	45.137	30.148	NaN
St. deviation:	14.074	4.7803	NaN
Maximum:	70.497	40.432	NaN
Minimum:	26.710	24.053	NaN
Number of data:	9.0000	24.000	NaN

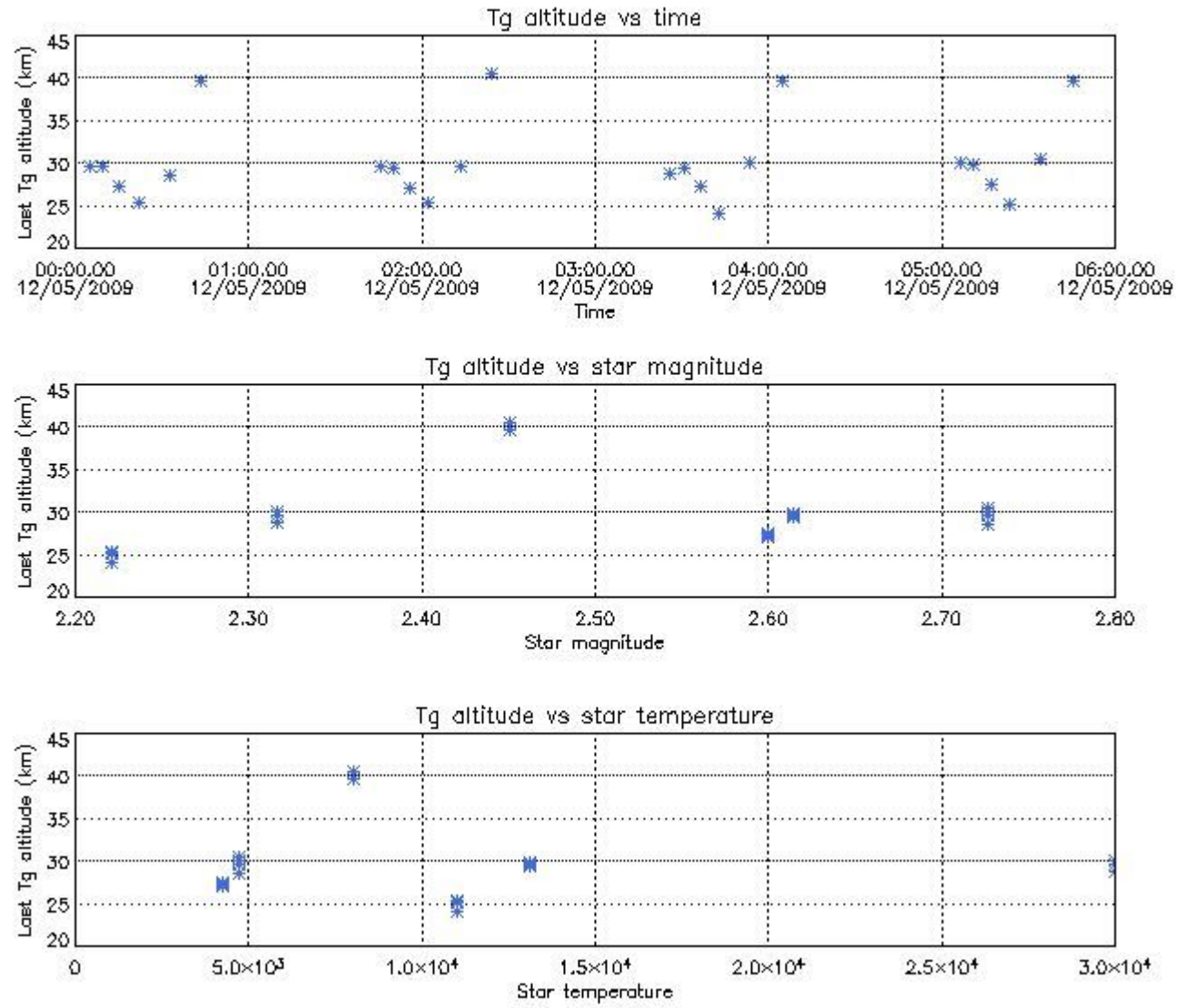
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

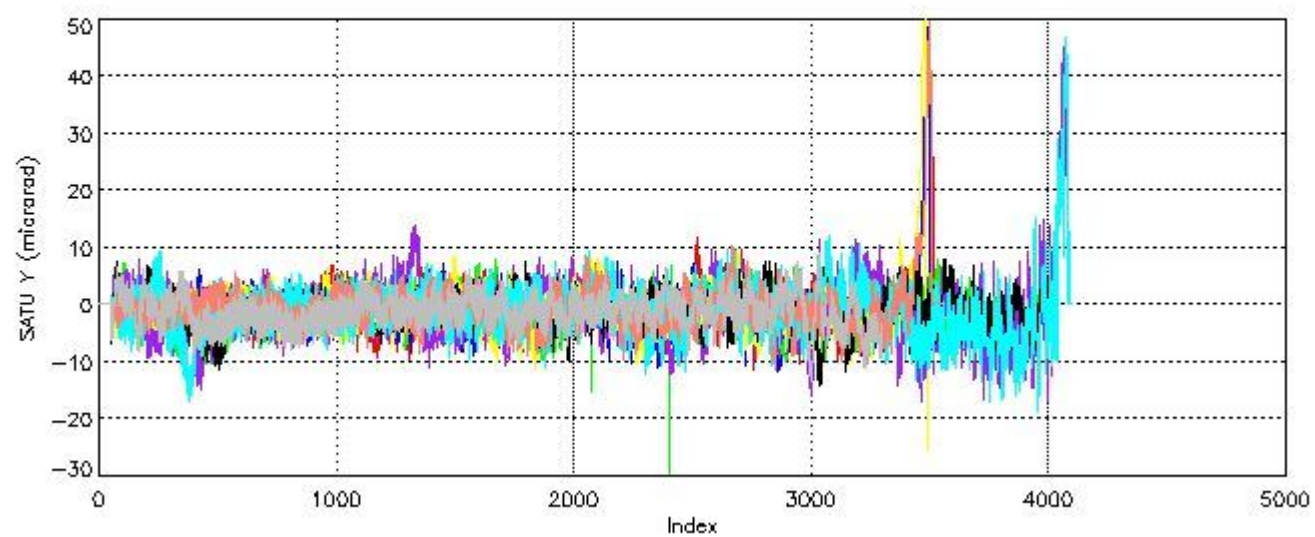
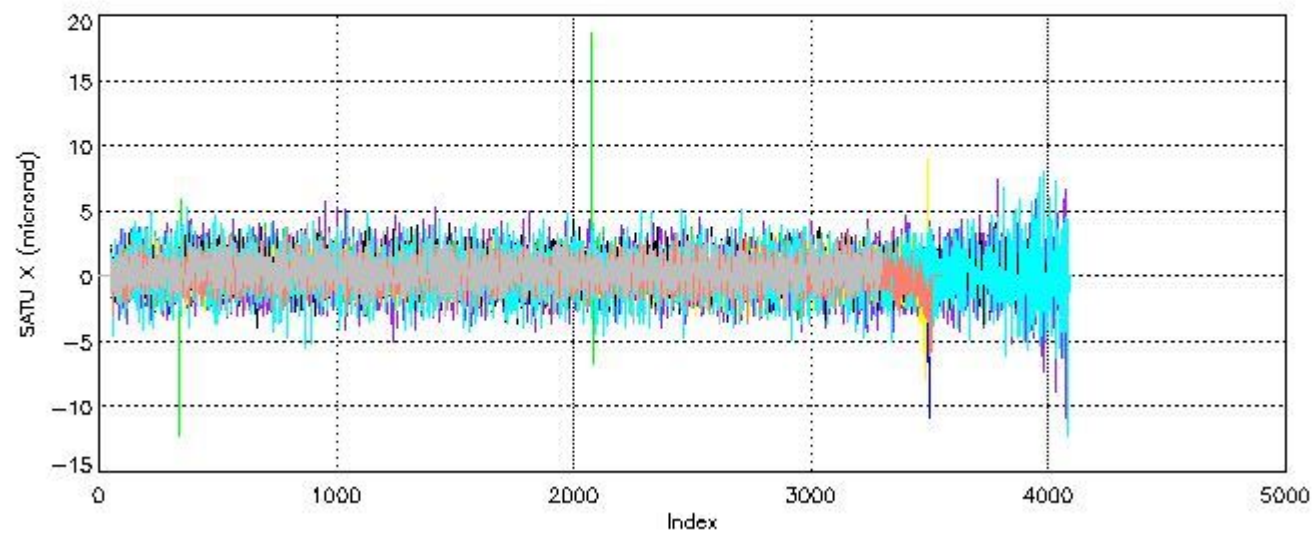


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27278	-1.1036	0.38839	-1.4853
St. deviation:	1.1742	2.7898	0.88317	2.4942
Maximum:	5.9000	9.4000	4.5000	7.3000
Minimum:	-12.300	-16.900	-4.5000	-14.600

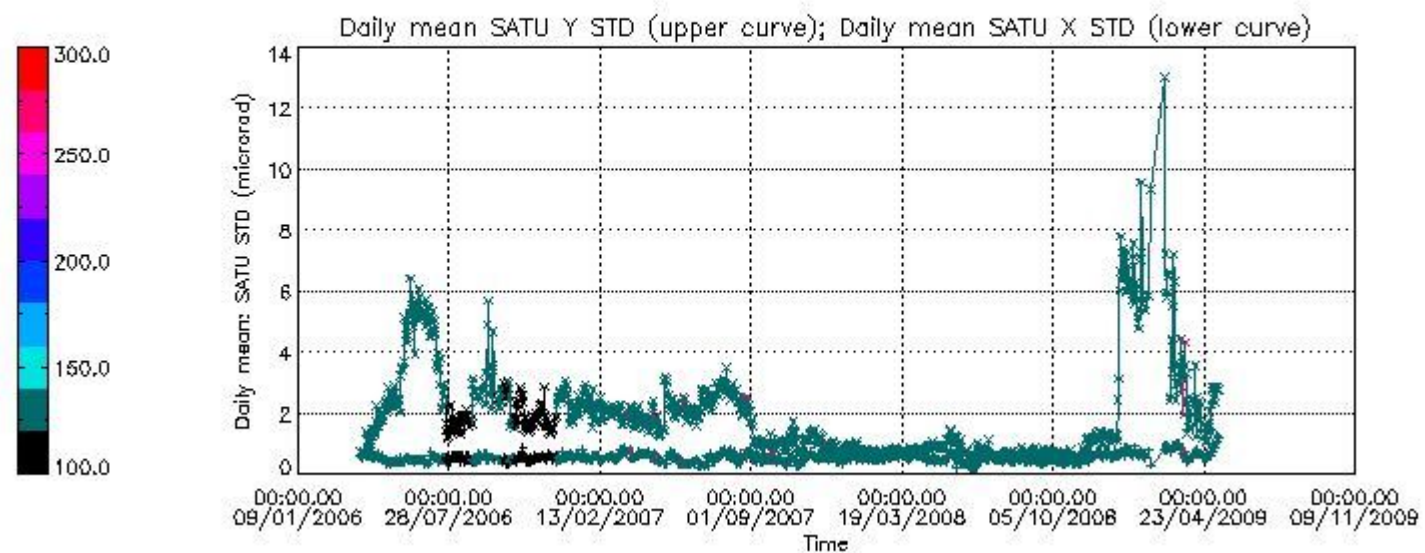
Number of data:	11000.	11000.	24750.	24750.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

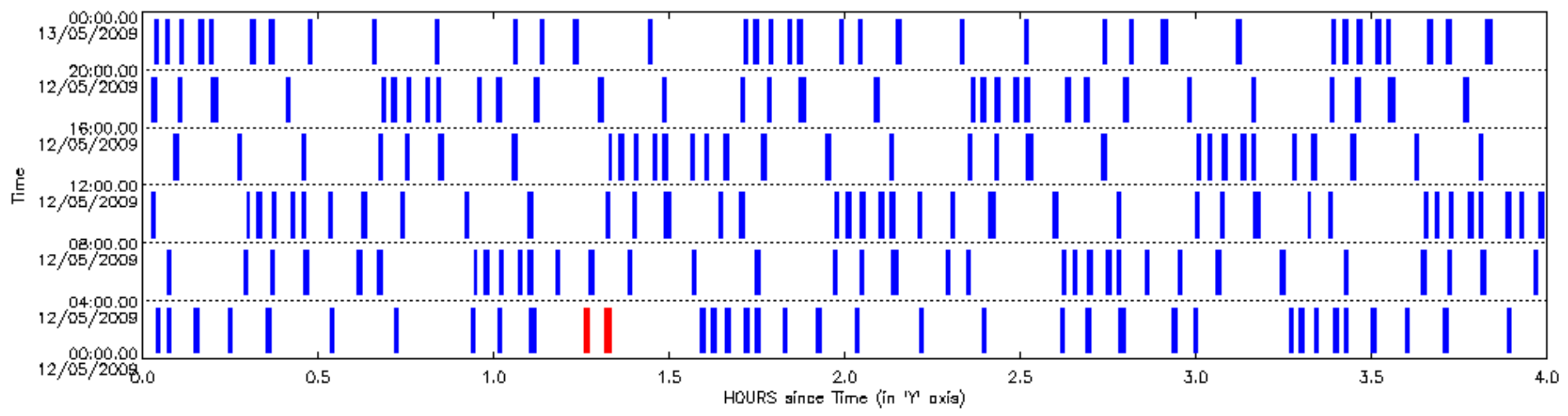
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

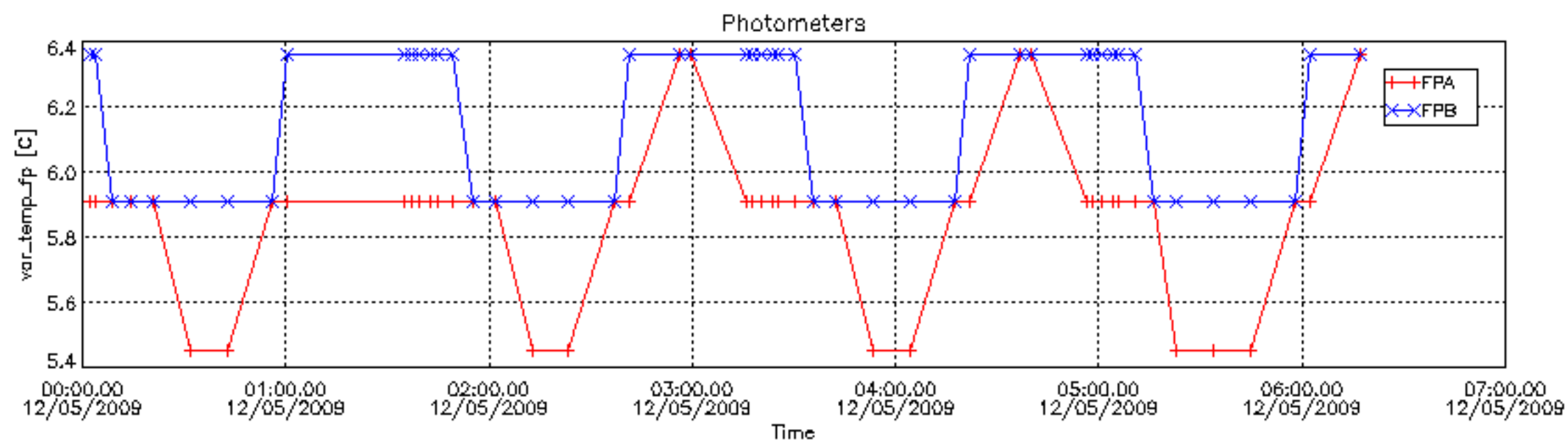
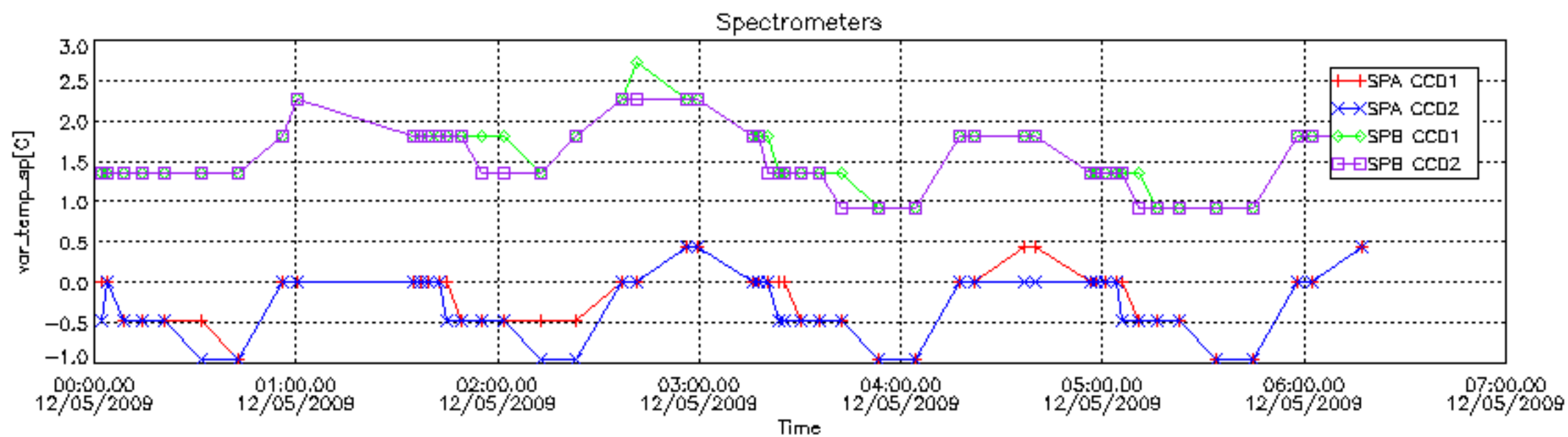


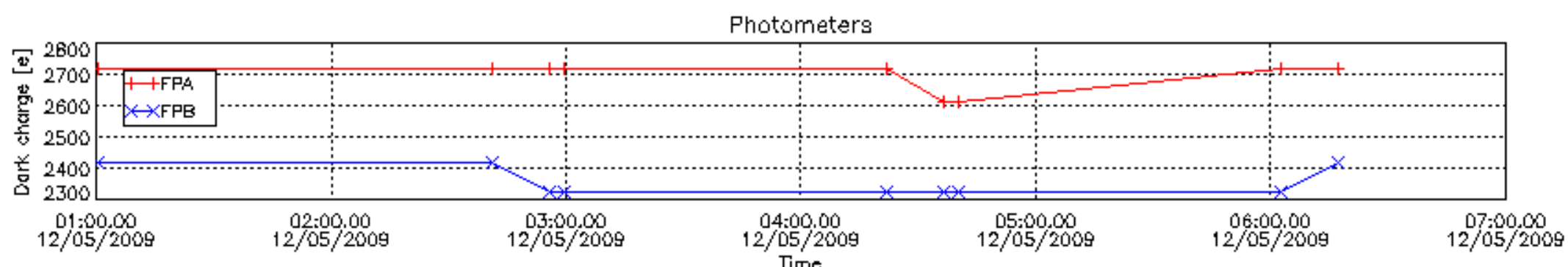
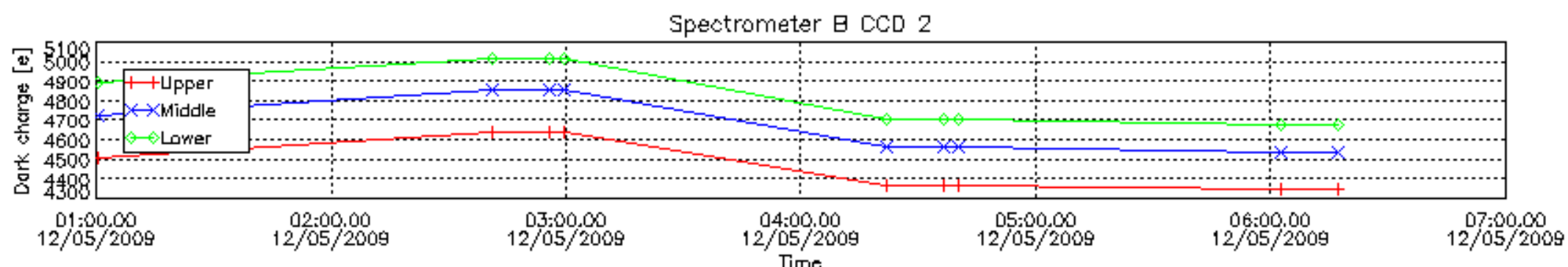
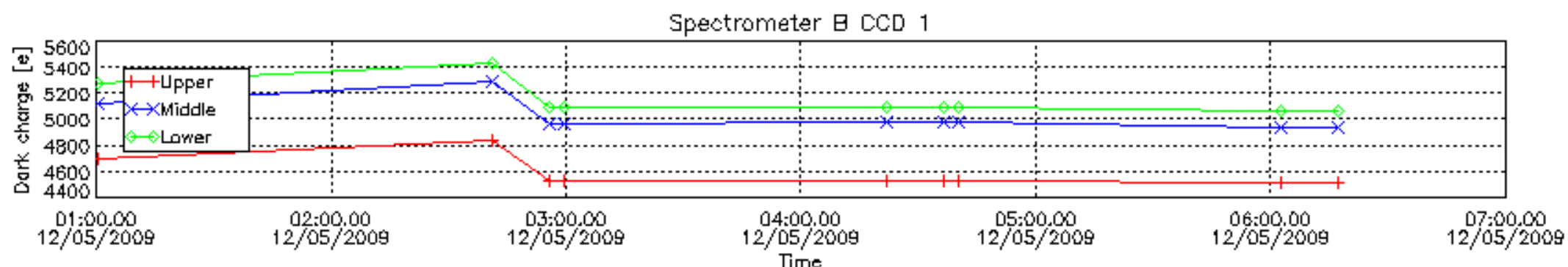
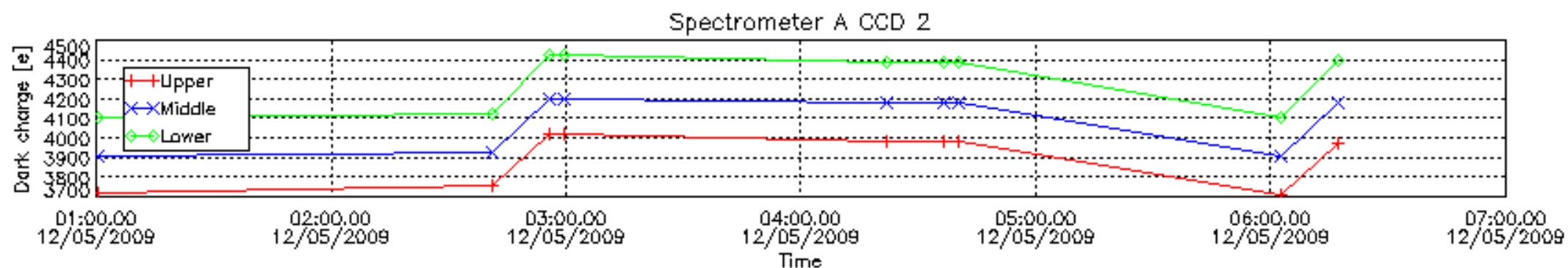
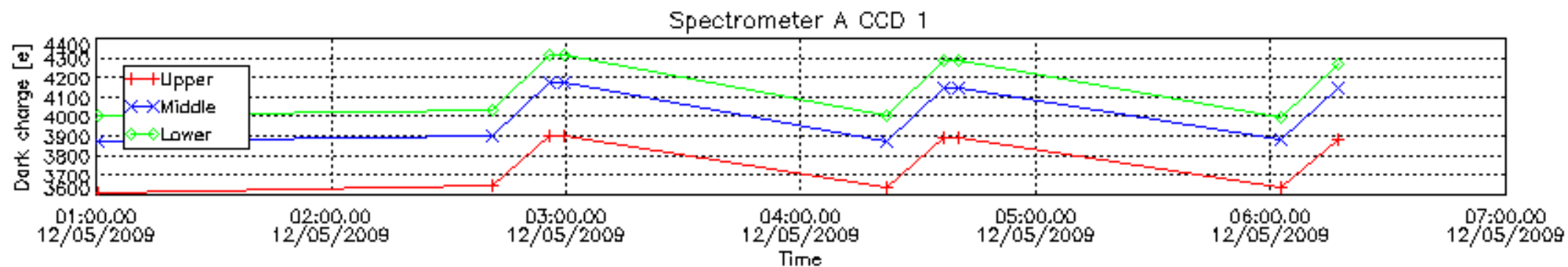
8. Auxiliary Data Files used for the production reported in section 2.4

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.

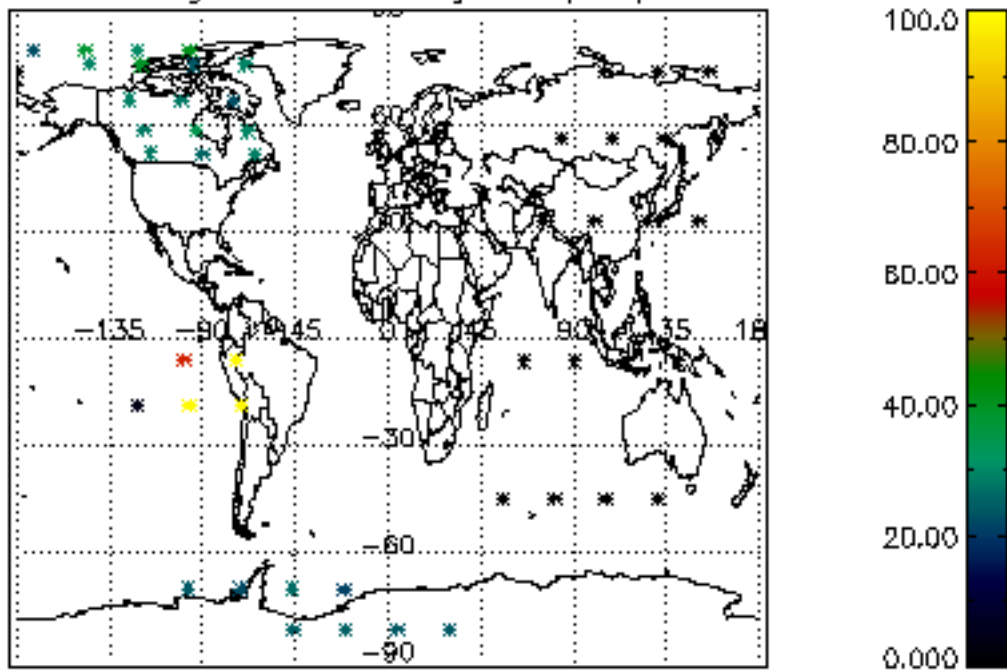
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-MAY-2009 00:02:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090511_131319_20090509_000000_20100101_000000	1	12-MAY-2009 00:02:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-MAY-2009 00:02:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-MAY-2009 00:02:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-MAY-2009 00:02:16
ECMWF_FILE	AUX_ECF_AXNECM20090511_064112_20090511_210000_20090512_090000	1	12-MAY-2009 00:02:16
ECMWF_FILE	AUX_ECF_AXNECM20090511_190112_20090512_030000_20090512_150000	33	12-MAY-2009 04:04:08
OPTIONAL_ECMWF_FILE	MISSING	1	12-MAY-2009 00:02:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090511_220953_000041442079_00001_37630_7925.N1	1	12-MAY-2009 00:02:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090511_232416_000057382079_00001_37630_7926.N1	10	12-MAY-2009 01:35:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090512_010513_000044632079_00002_37631_7927.N1	20	12-MAY-2009 02:36:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090512_022455_000054192079_00003_37632_7928.N1	33	12-MAY-2009 04:04:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090512_040033_000057382079_00004_37633_7929.N1	47	12-MAY-2009 05:44:43



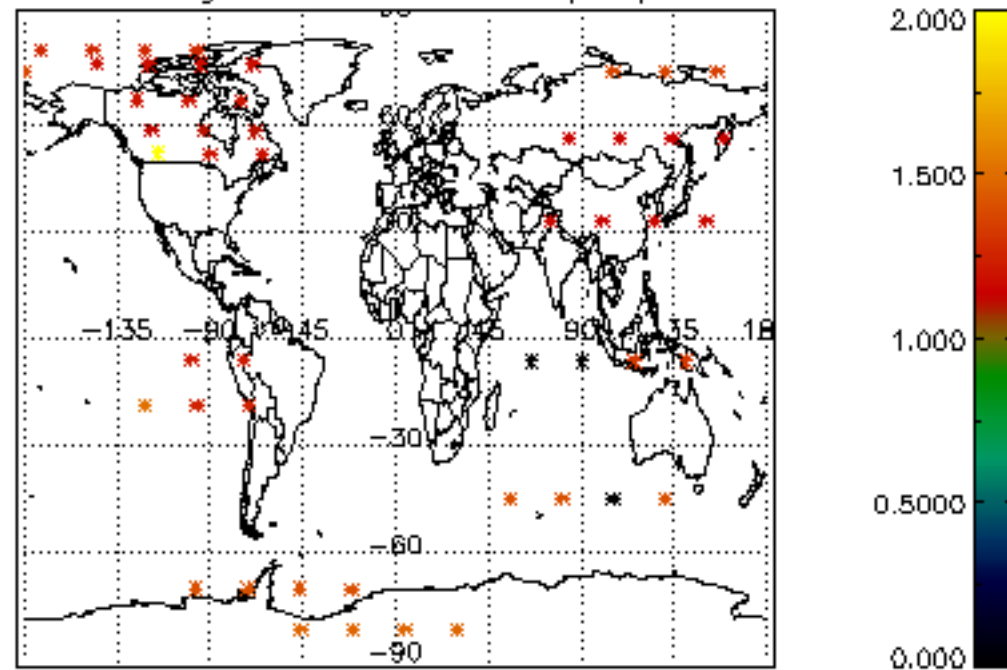




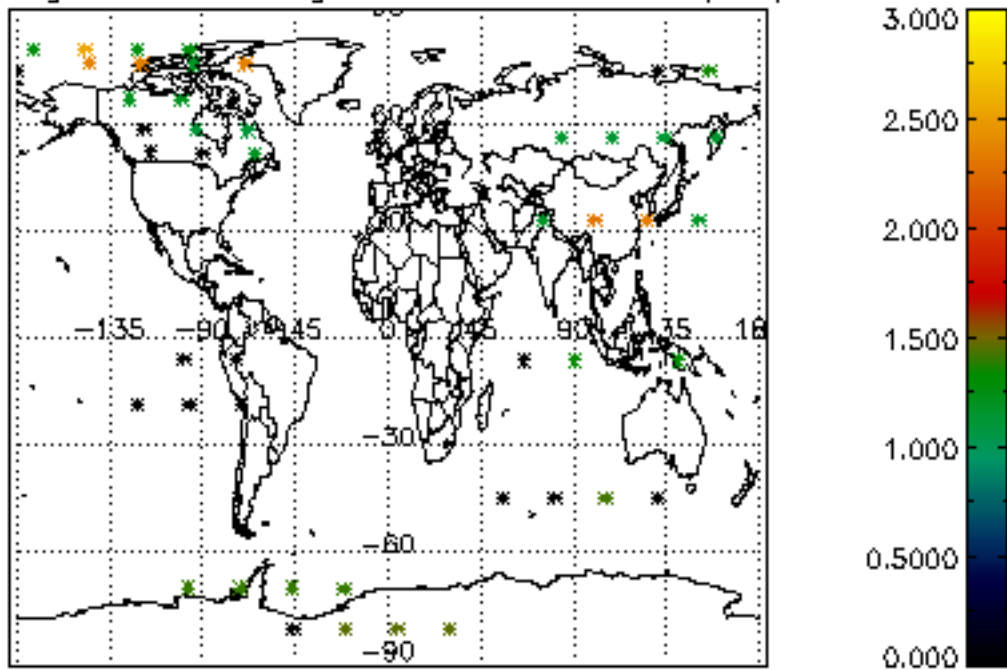
Percentage of cosmic ray hits per profile



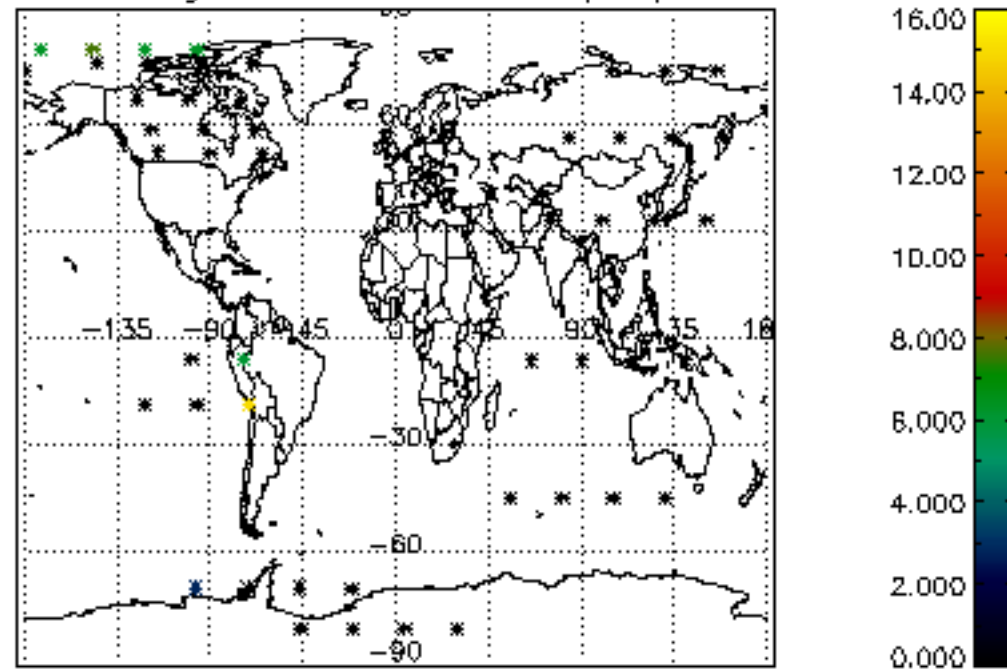
Percentage of datation errors per profile



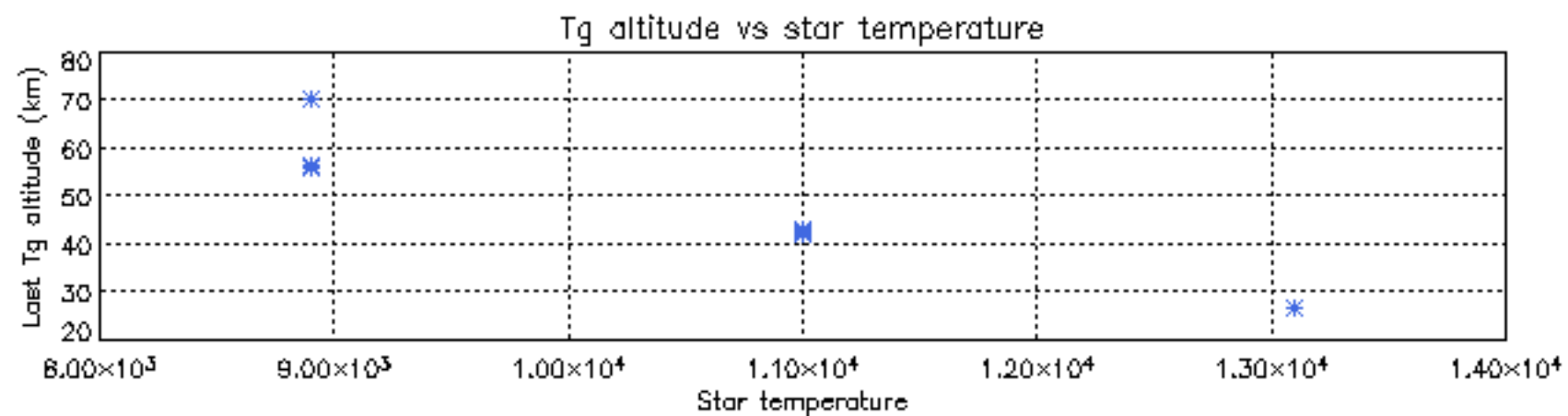
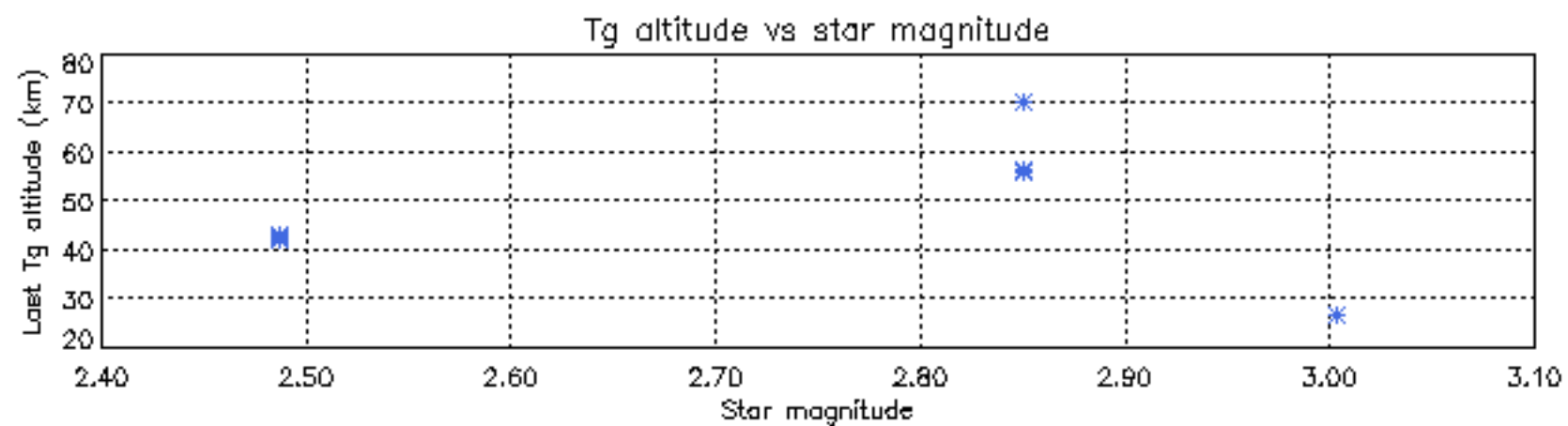
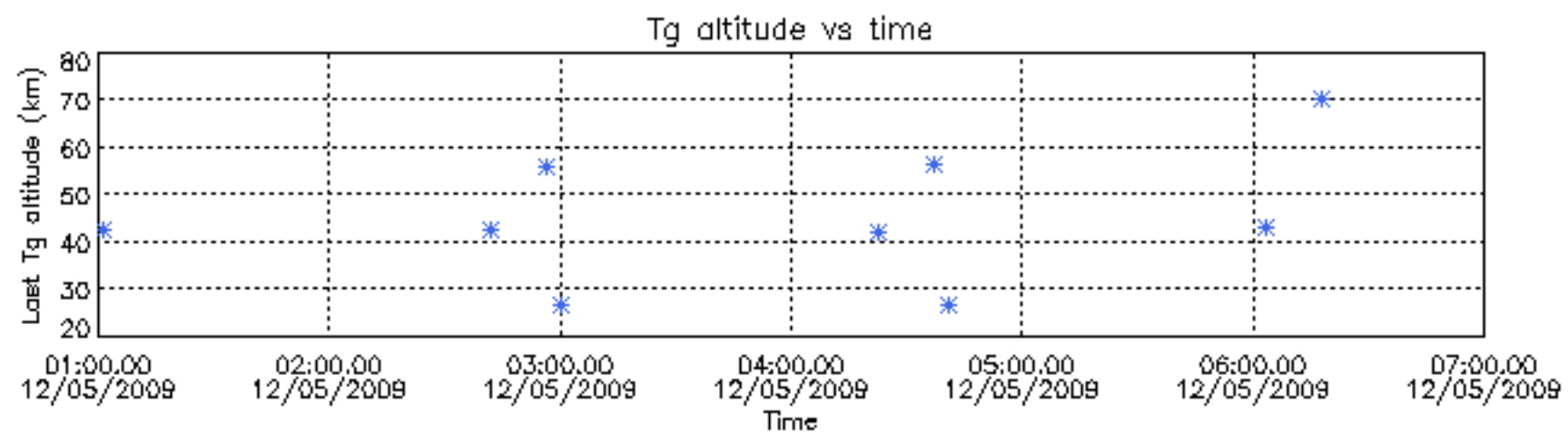
Percentage of star falling outside central band per profile



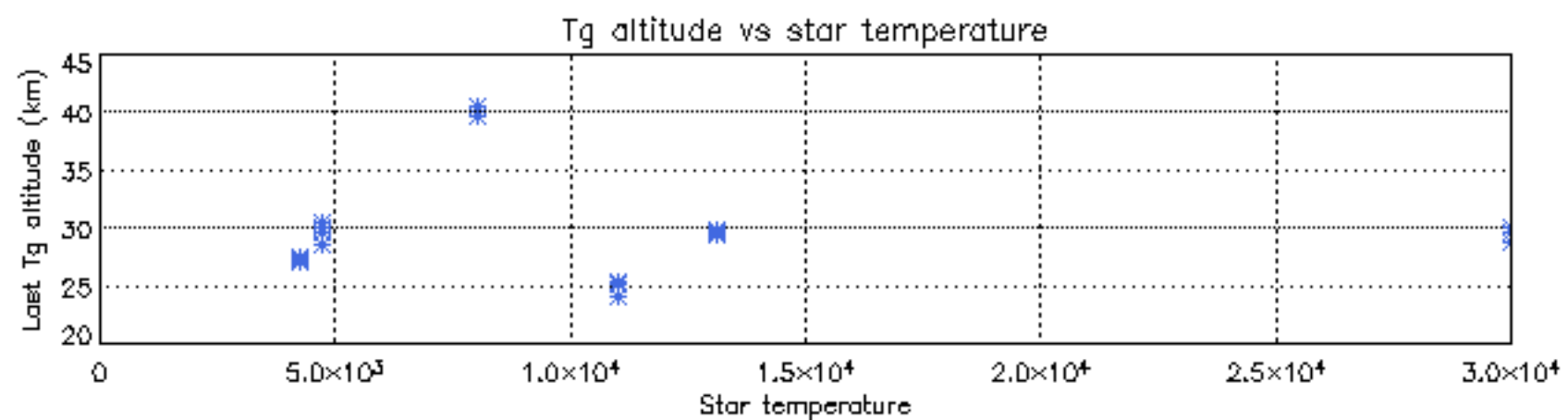
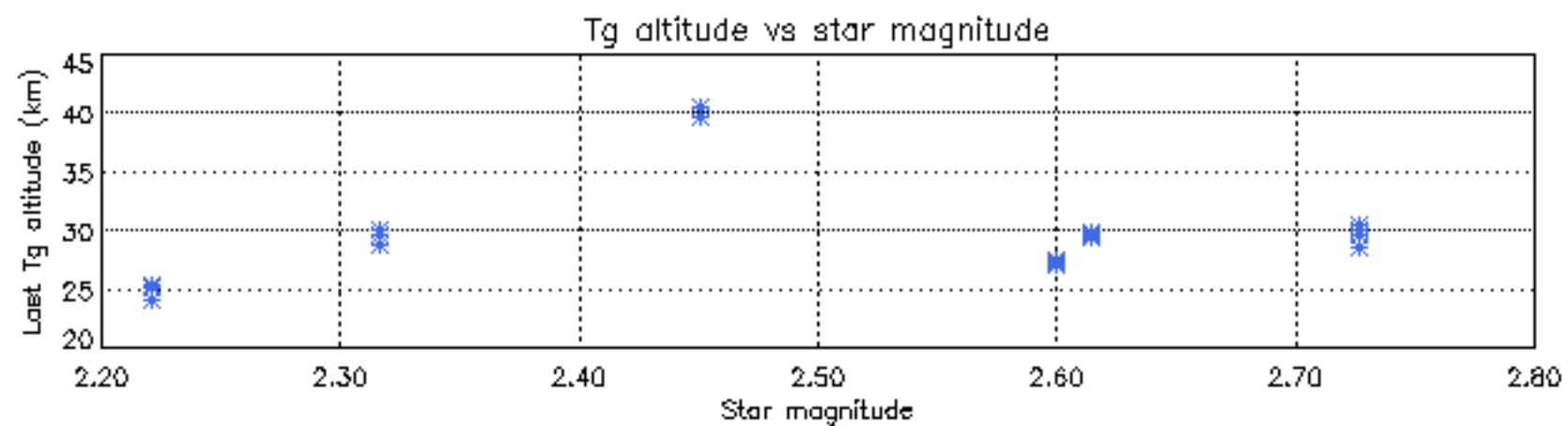
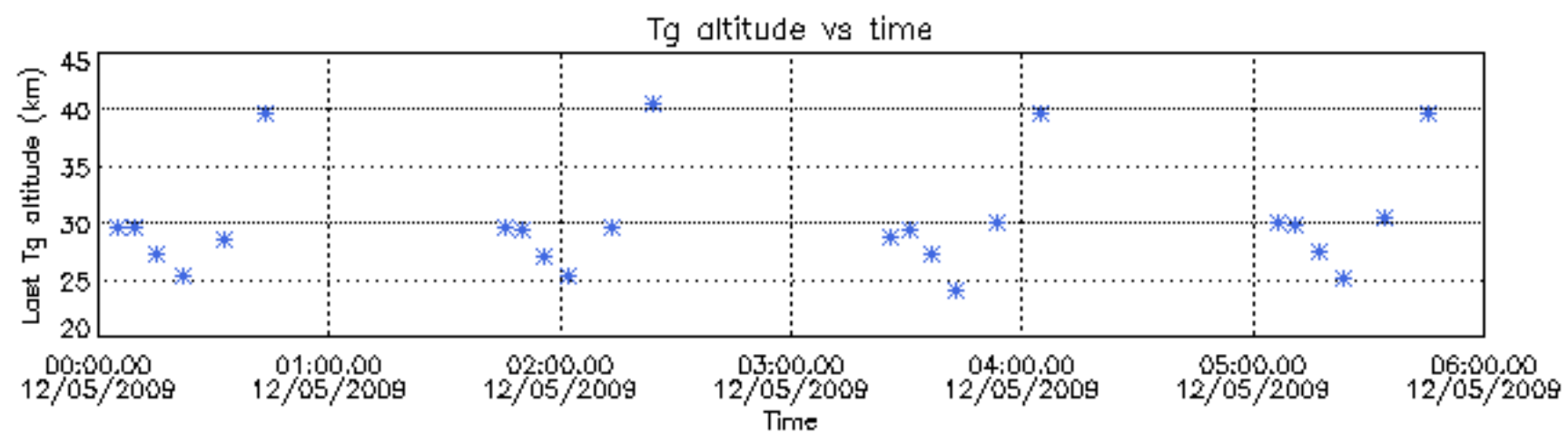
Percentage of saturation errors per profile

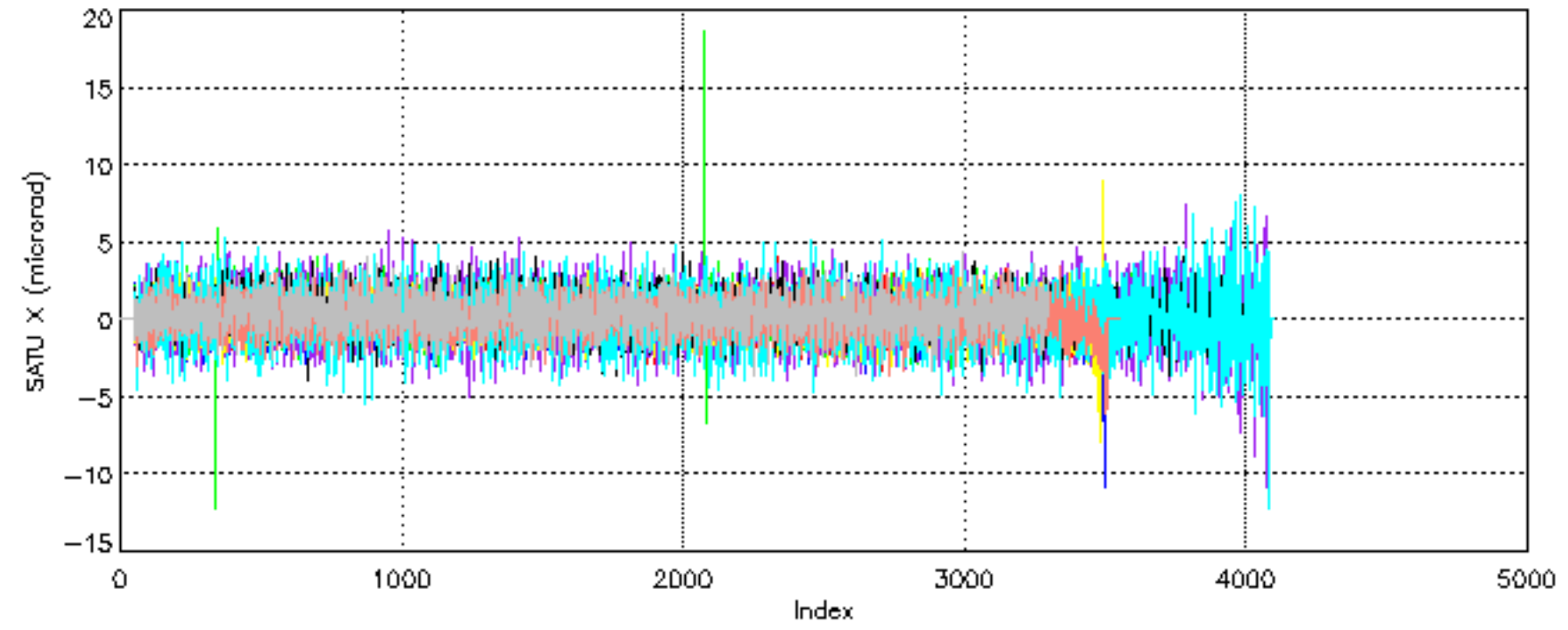


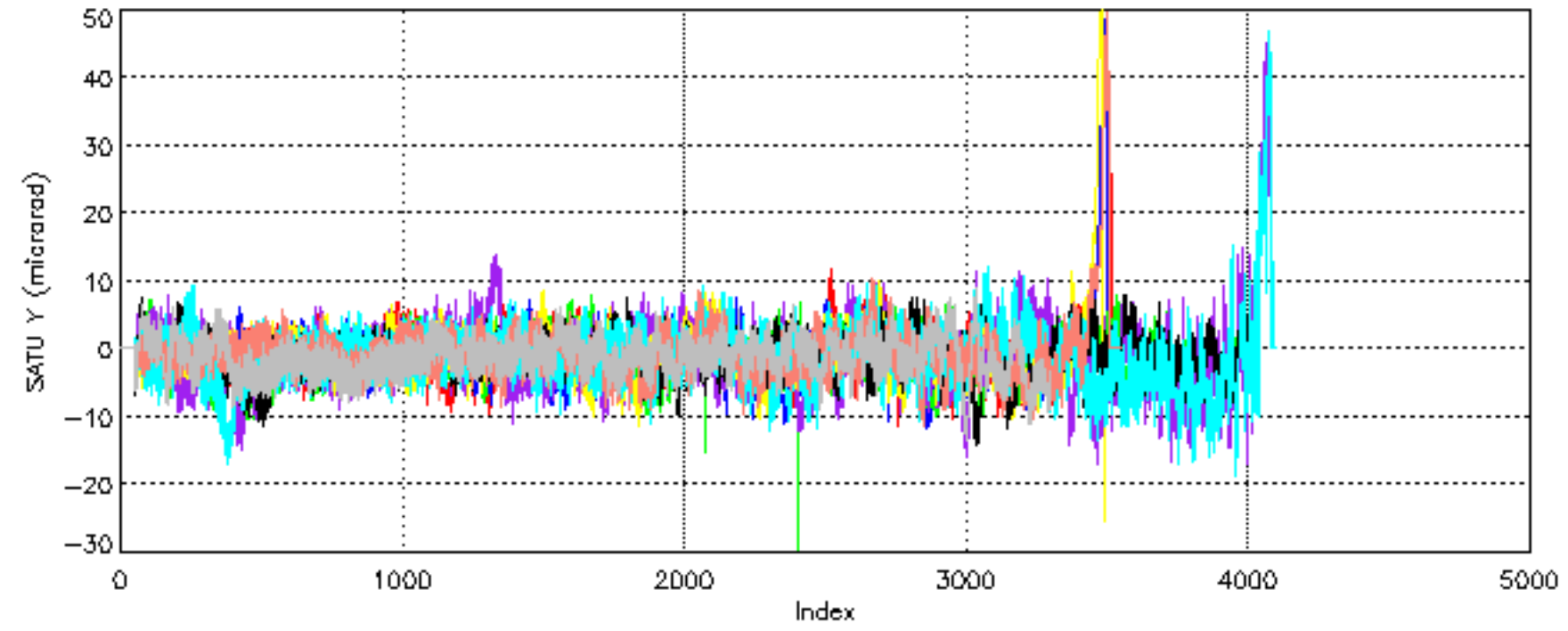
Tangent altitude at which the star is lost

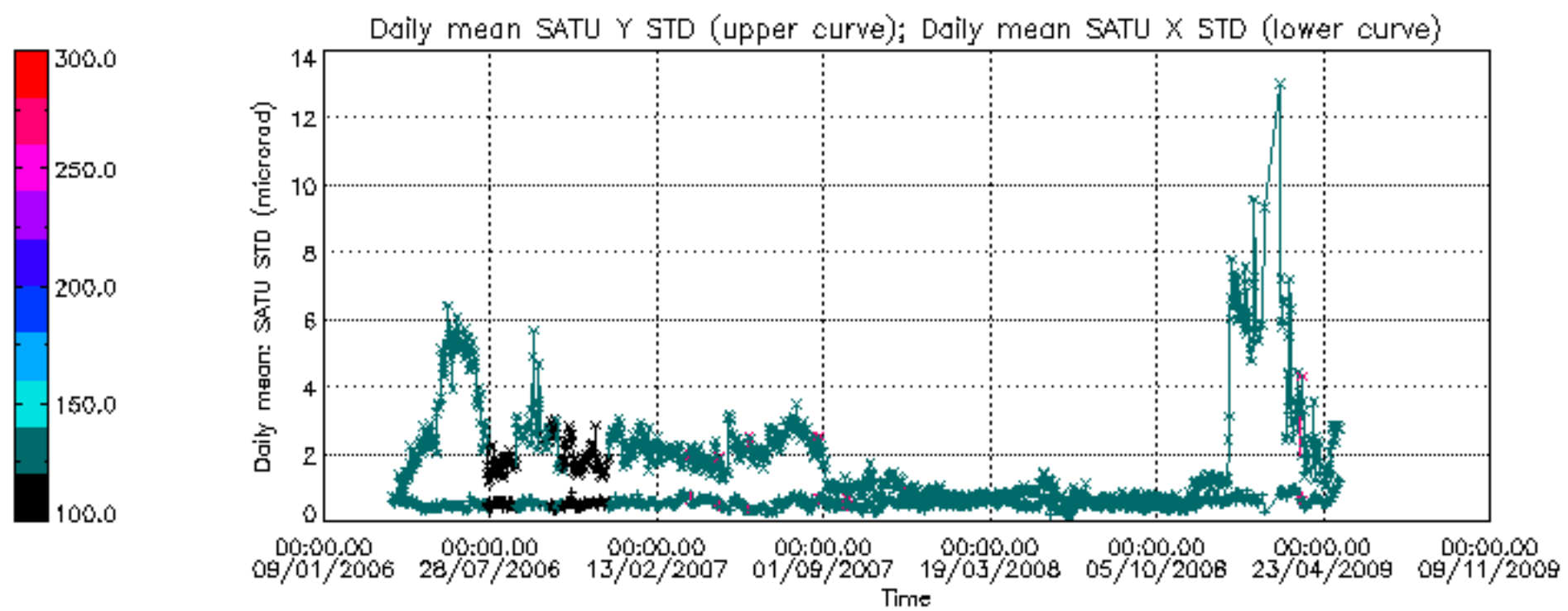


Tangent altitude at which the star is lost









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 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
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 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
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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
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 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
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 16; 2634.5; 01-MAY-2009 06:11:45; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37477

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3; 1272.3; 01-MAY-2009 20:54:26; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37486
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9; 2630.2; 01-MAY-2009 21:17:04; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37486
10; 3202.2; 01-MAY-2009 21:26:36; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37486
11; 3824.5; 01-MAY-2009 21:36:58; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37486
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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
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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
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13; 2629.7; 01-MAY-2009 22:57:39; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37487
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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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5; 1050.8; 02-MAY-2009 00:11:56; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37488
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3; -844.0; 02-MAY-2009 03:01:33; Dark ; 44.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 88; 0;37489
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6; 762.7; 02-MAY-2009 03:28:20; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;37490
7; 868.9; 02-MAY-2009 03:30:06; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37490
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3; -988.3; 02-MAY-2009 04:39:45; Dark ; 32.0; 61; 8Eps Peg ; 2.10; 3900;occ; 64; 0;37490
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7; 3193.5; 02-MAY-2009 20:54:50; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37500
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3; -488.3; 02-MAY-2009 21:34:04; Dark ; 48.5; 142; 49Del Cap ; 2.85; 8900;occ; 97; 0;37500
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 9; 2441.2; 03-MAY-2009 00:03:30; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;37502
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 3; 2445.9; 02-MAY-2009 07:17:35; Bright; 48.0; 83; ; 2.38; 11000;occ; 96; 0;37492
 4; 2627.5; 02-MAY-2009 07:20:37; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37492
 5; 3199.1; 02-MAY-2009 07:30:08; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37492
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 12; 6907.6; 02-MAY-2009 08:31:57; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37492
 13; 7090.4; 02-MAY-2009 08:35:00; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37492
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 16; 7628.8; 02-MAY-2009 08:43:58; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37492
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 3; 2445.4; 02-MAY-2009 08:58:10; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;37493
 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
 6; 3822.2; 02-MAY-2009 09:21:07; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37493
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 9; 5428.0; 02-MAY-2009 09:47:53; Dark ; 55.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 110; 0;37493
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8; 5196.1; 02-MAY-2009 11:24:37; Dark ; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;37494
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 3; 3189.7; 03-MAY-2009 08:38:58; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37507

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5; 4514.2; 03-MAY-2009 09:01:02; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37507
6; 5207.4; 03-MAY-2009 09:12:35; Dark ; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;37507
7; 5599.9; 03-MAY-2009 09:19:08; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37507
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9; 6921.4; 03-MAY-2009 09:41:10; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37507
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4; 3188.7; 03-MAY-2009 10:19:33; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37508
5; 3817.4; 03-MAY-2009 10:30:01; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37508
6; 4514.2; 03-MAY-2009 10:41:38; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37508
7; 5208.3; 03-MAY-2009 10:53:12; Dark ; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;37508
8; 5601.1; 03-MAY-2009 10:59:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37508
9; 6814.5; 03-MAY-2009 11:19:59; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37508
10; 6922.4; 03-MAY-2009 11:21:46; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37508
11; 7101.2; 03-MAY-2009 11:24:45; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37508
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3; 2620.5; 03-MAY-2009 11:50:40; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37509
4; 3187.8; 03-MAY-2009 12:00:08; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37509
5; 3817.2; 03-MAY-2009 12:10:37; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37509
6; 4514.5; 03-MAY-2009 12:22:14; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37509
7; 5209.2; 03-MAY-2009 12:33:49; Dark ; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;37509
8; 5602.3; 03-MAY-2009 12:40:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37509
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10; 6923.1; 03-MAY-2009 13:02:23; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37509
11; 7101.9; 03-MAY-2009 13:05:22; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37509
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3; 2620.1; 03-MAY-2009 13:31:16; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37510
4; 3187.5; 03-MAY-2009 13:40:43; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;37510
5; 3816.9; 03-MAY-2009 13:51:13; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37510
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8; 5603.6; 03-MAY-2009 14:20:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37510
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11; 7102.7; 03-MAY-2009 14:45:58; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37510
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3; 2437.4; 03-MAY-2009 15:08:49; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37511
4; 2619.9; 03-MAY-2009 15:11:52; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37511
5; 3186.9; 03-MAY-2009 15:21:19; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37511
6; 3816.9; 03-MAY-2009 15:31:49; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37511
7; 4515.1; 03-MAY-2009 15:43:27; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37511
8; 5211.2; 03-MAY-2009 15:55:03; Dark ; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;37511
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5; 2436.7; 03-MAY-2009 16:49:24; Bright; 47.0; 83; ; 2.38; 11000;occ; 94; 0;37512
6; 2619.3; 03-MAY-2009 16:52:27; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;37512
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8; 3816.3; 03-MAY-2009 17:12:24; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37512
9; 4515.1; 03-MAY-2009 17:24:03; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37512
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8; 3816.0; 03-MAY-2009 18:53:00; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37513
9; 4515.3; 03-MAY-2009 19:04:39; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37513
10; 5212.8; 03-MAY-2009 19:16:17; Dark ; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;37513
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4; 894.5; 04-MAY-2009 02:27:18; Dark ; 54.5; 25; 35Lam Sco ; 1.62; 28000;occ; 109; 0;37518
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8; 3175.9; 04-MAY-2009 21:31:55; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37529
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3; 796.3; 04-MAY-2009 22:32:51; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;37530
4; 904.8; 04-MAY-2009 22:34:39; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37530
5; 1078.9; 04-MAY-2009 22:37:33; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37530
6; 1292.3; 04-MAY-2009 22:41:07; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37530
7; 1416.7; 04-MAY-2009 22:43:11; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37530
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
10; 2530.8; 04-MAY-2009 23:01:45; Bright; 42.0; 67; 5Alp CrB ; 2.22; 11000;occ; 84; 0;37530
11; 2612.3; 04-MAY-2009 23:03:07; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37530
12; 3175.8; 04-MAY-2009 23:12:30; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37530
13; 3810.3; 04-MAY-2009 23:23:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37530
14; 4547.3; 04-MAY-2009 23:35:22; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37530
15; 5228.4; 04-MAY-2009 23:46:43; Dark ; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;37530

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2; 797.2; 05-MAY-2009 00:13:28; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37531
3; 906.0; 05-MAY-2009 00:15:16; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37531
4; 1079.7; 05-MAY-2009 00:18:10; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37531
5; 1292.7; 05-MAY-2009 00:21:43; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37531
6; 1417.1; 05-MAY-2009 00:23:48; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37531
7; 1726.1; 05-MAY-2009 00:28:57; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37531
8; 2428.4; 05-MAY-2009 00:40:39; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;37531
9; 2529.9; 05-MAY-2009 00:42:20; Bright; 42.0; 67; 5Alp CrB ; 2.22; 11000;occ; 84; 0;37531
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11; 3175.0; 05-MAY-2009 00:53:05; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;37531
12; 3810.0; 05-MAY-2009 01:03:40; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37531
13; 4547.5; 05-MAY-2009 01:15:58; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37531
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3; -816.7; 04-MAY-2009 07:00:34; Dark ; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;37520
4; -419.5; 04-MAY-2009 07:07:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37520
5; 789.1; 04-MAY-2009 07:27:20; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;37521
6; 897.2; 04-MAY-2009 07:29:08; Dark ; 54.5; 25; 35Lam Sco ; 1.62; 28000;occ; 109; 0;37521
7; 1073.3; 04-MAY-2009 07:32:05; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;37521
8; 1288.6; 04-MAY-2009 07:35:40; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;37521
9; 1414.5; 04-MAY-2009 07:37:46; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;37521

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2; 2432.8; 04-MAY-2009 07:54:44; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;37521
3; 2615.8; 04-MAY-2009 07:57:47; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37521
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
7; 5220.0; 04-MAY-2009 08:41:11; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37521
8; 5617.7; 04-MAY-2009 08:47:49; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37521
9; 6825.8; 04-MAY-2009 09:07:57; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;37521
10; 6934.0; 04-MAY-2009 09:09:45; Dark ; 54.5; 25; 35Lam Sco ; 1.62; 28000;occ; 109; 0;37521
11; 7109.9; 04-MAY-2009 09:12:41; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;37521
12; 7325.0; 04-MAY-2009 09:16:16; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;37521
13; 7450.8; 04-MAY-2009 09:18:22; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;37521
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2; 2432.1; 04-MAY-2009 09:35:19; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37522
3; 2615.3; 04-MAY-2009 09:38:22; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37522
4; 3180.7; 04-MAY-2009 09:47:48; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;37522
5; 3812.9; 04-MAY-2009 09:58:20; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37522
6; 4516.7; 04-MAY-2009 10:10:04; Dark ; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;37522
7; 5220.9; 04-MAY-2009 10:21:48; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37522
8; 5619.0; 04-MAY-2009 10:28:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37522
9; 6826.7; 04-MAY-2009 10:48:34; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;37522
10; 6934.8; 04-MAY-2009 10:50:22; Dark ; 54.0; 25; 35Lam Sco ; 1.62; 28000;occ; 108; 0;37522
11; 7110.6; 04-MAY-2009 10:53:18; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37522
12; 7325.6; 04-MAY-2009 10:56:53; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;37522
13; 7451.0; 04-MAY-2009 10:58:58; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37522
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2; 2431.4; 04-MAY-2009 12:56:30; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;37524
3; 2614.7; 04-MAY-2009 12:59:34; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;37524
4; 3179.4; 04-MAY-2009 13:08:58; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;37524
5; 3812.5; 04-MAY-2009 13:19:31; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;37524
6; 4546.3; 04-MAY-2009 13:31:45; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37524
7; 5222.8; 04-MAY-2009 13:43:02; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37524
8; 5621.6; 04-MAY-2009 13:49:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37524
9; 6828.4; 04-MAY-2009 14:09:47; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;37524
10; 6936.7; 04-MAY-2009 14:11:36; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37524
11; 7111.9; 04-MAY-2009 14:14:31; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37524
12; 7326.4; 04-MAY-2009 14:18:05; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37524
13; 7451.5; 04-MAY-2009 14:20:10; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37524
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3; 2431.3; 04-MAY-2009 14:37:06; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37525
4; 2614.4; 04-MAY-2009 14:40:09; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37525
5; 3178.9; 04-MAY-2009 14:49:34; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37525
6; 3812.5; 04-MAY-2009 15:00:07; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37525
7; 4546.6; 04-MAY-2009 15:12:21; Dark ; 33.5; 93; 53Bet Peg ; 2.52; 3100;occ; 67; 0;37525
8; 5223.9; 04-MAY-2009 15:23:39; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37525
9; 5622.9; 04-MAY-2009 15:30:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37525
10; 6829.4; 04-MAY-2009 15:50:24; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;37525
11; 6937.8; 04-MAY-2009 15:52:13; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37525
12; 7113.1; 04-MAY-2009 15:55:08; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37525
13; 7327.1; 04-MAY-2009 15:58:42; Dark ; 3.0; 16; 21Alp Sco ; 1.02; 3000;occ; 6; 0;37525
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2; 1416.1; 04-MAY-2009 16:00:47; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37526
3; 1726.3; 04-MAY-2009 16:05:57; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;37526
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
6; 2613.8; 04-MAY-2009 16:20:45; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37526
7; 3178.0; 04-MAY-2009 16:30:09; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37526
8; 3811.7; 04-MAY-2009 16:40:42; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37526
9; 4546.8; 04-MAY-2009 16:52:57; Dark ; 33.5; 93; 53Bet Peg ; 2.52; 3100;occ; 67; 0;37526
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4; 902.2; 04-MAY-2009 17:32:49; Dark ; 54.5; 25; 35Lam Sco ; 1.62; 28000;occ; 109; 0;37527
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7; 2613.2; 04-MAY-2009 19:41:56; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37528
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4; 798.7; 05-MAY-2009 03:34:41; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37533
5; 907.5; 05-MAY-2009 03:36:30; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37533
6; 1081.0; 05-MAY-2009 03:39:23; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37533
7; 1293.7; 05-MAY-2009 03:42:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37533
8; 1417.5; 05-MAY-2009 03:45:00; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37533
9; 1726.6; 05-MAY-2009 03:50:09; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37533
10; 2427.7; 05-MAY-2009 04:01:50; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37533
11; 2528.5; 05-MAY-2009 04:03:31; Bright; 48.0; 67; 5Alp CrB ; 2.22; 11000;occ; 96; 0;37533
12; 2611.4; 05-MAY-2009 04:04:54; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37533
13; 3174.0; 05-MAY-2009 04:14:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37533
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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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 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
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 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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 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
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 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
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 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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 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
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 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
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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
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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
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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
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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
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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
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6; 1089.6; 06-MAY-2009 03:07:55; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37547
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9; 2417.3; 06-MAY-2009 23:37:14; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37559

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 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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