

# GOMOS Daily Report 29-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	03JUN2009 14:29:37
Data source version	GOMOS/5.00
Start time of products	29MAY2009 00:06:29
Stop time of products	29MAY2009 23:54:37
Store outputs in DB	Yes
Nb of level 1b prods	71
Nb of prods with errors	0

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

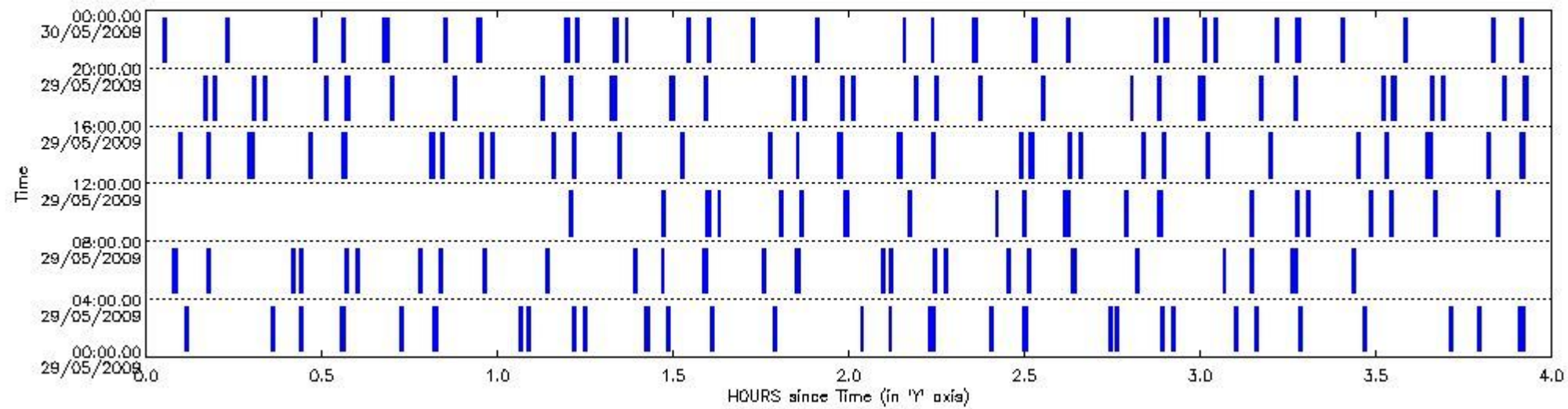
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

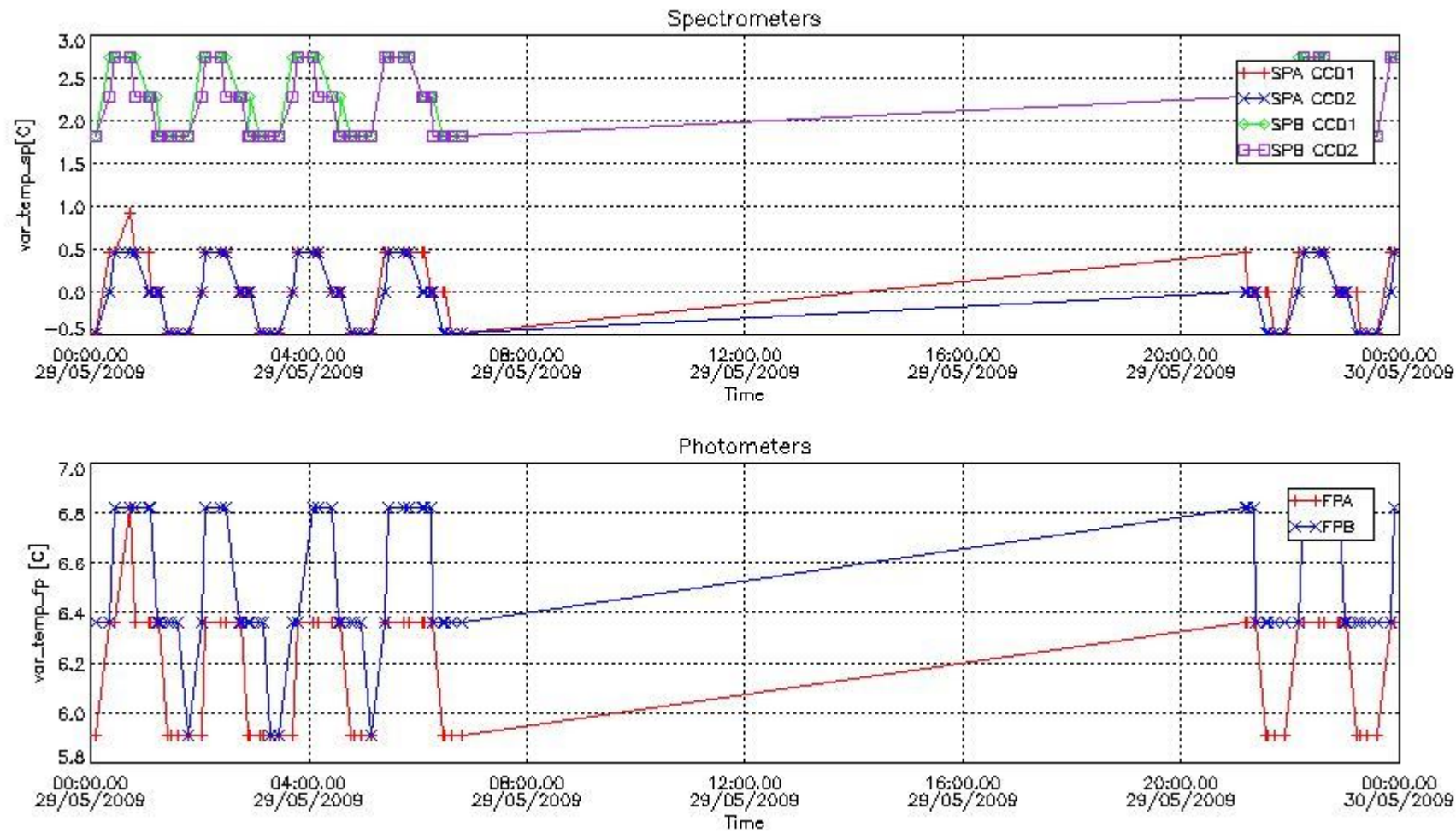
No missing products.

### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090529_000629_000000332079_00245_37874_5616.N1	29-MAY-2009 00:06:29	Twilight	32.500	89	5Alp Cep	2.4510	8000.0	65	37874	No
2	GOM_TRA_1PNPDE20090529_002123_000000282079_00245_37874_5617.N1	29-MAY-2009 00:21:23	Twilight	28.000	58	21Alp And	2.0730	11000.	56	37874	No
3	GOM_TRA_1PNPDE20090529_002608_000000292079_00245_37874_5618.N1	29-MAY-2009 00:26:08	Dark	29.000	140	88Gam Peg	2.8340	26000.	58	37874	No
4	GOM_TRA_1PNPDE20090529_004318_000000392079_00245_37874_5761.N1	29-MAY-2009 00:43:18	Dark	38.500	18	24Alp PsA	1.1660	9700.0	77	37874	No
5	GOM_TRA_1PNPDE20090529_004901_000000422079_00246_37875_5762.N1	29-MAY-2009 00:49:01	Dark	41.500	172	Gam Gru	3.0030	13100.	83	37875	No
6	GOM_TRA_1PNPDE20090529_010339_000000332079_00246_37875_5763.N1	29-MAY-2009 01:03:39	Straylight	33.000	178	lot1Sco	3.0220	6550.0	66	37875	No
7	GOM_TRA_1PNPDE20090529_010457_000000332079_00246_37875_5764.N1	29-MAY-2009 01:04:57	Twilight	32.500	25	35Lam Sco	1.6200	28000.	65	37875	No
8	GOM_TRA_1PNPDE20090529_011238_000000352079_00246_37875_5765.N1	29-MAY-2009 01:12:38	Bright	34.500	86	35Eta Oph	2.4300	10200.	69	37875	No
9	GOM_TRA_1PNPDE20090529_011433_000000322079_00246_37875_5766.N1	29-MAY-2009 01:14:33	Bright	31.500	98	13Zet Oph	2.5710	30000.	63	37875	No
10	GOM_TRA_1PNPDE20090529_012511_000000352079_00246_37875_5767.N1	29-MAY-2009 01:25:11	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	37875	No
11	GOM_TRA_1PNPDE20090529_012842_000000362079_00246_37875_5768.N1	29-MAY-2009 01:28:42	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	37875	No
12	GOM_TRA_1PNPDE20090529_013617_000000352079_00246_37875_5769.N1	29-MAY-2009 01:36:17	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	37875	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).

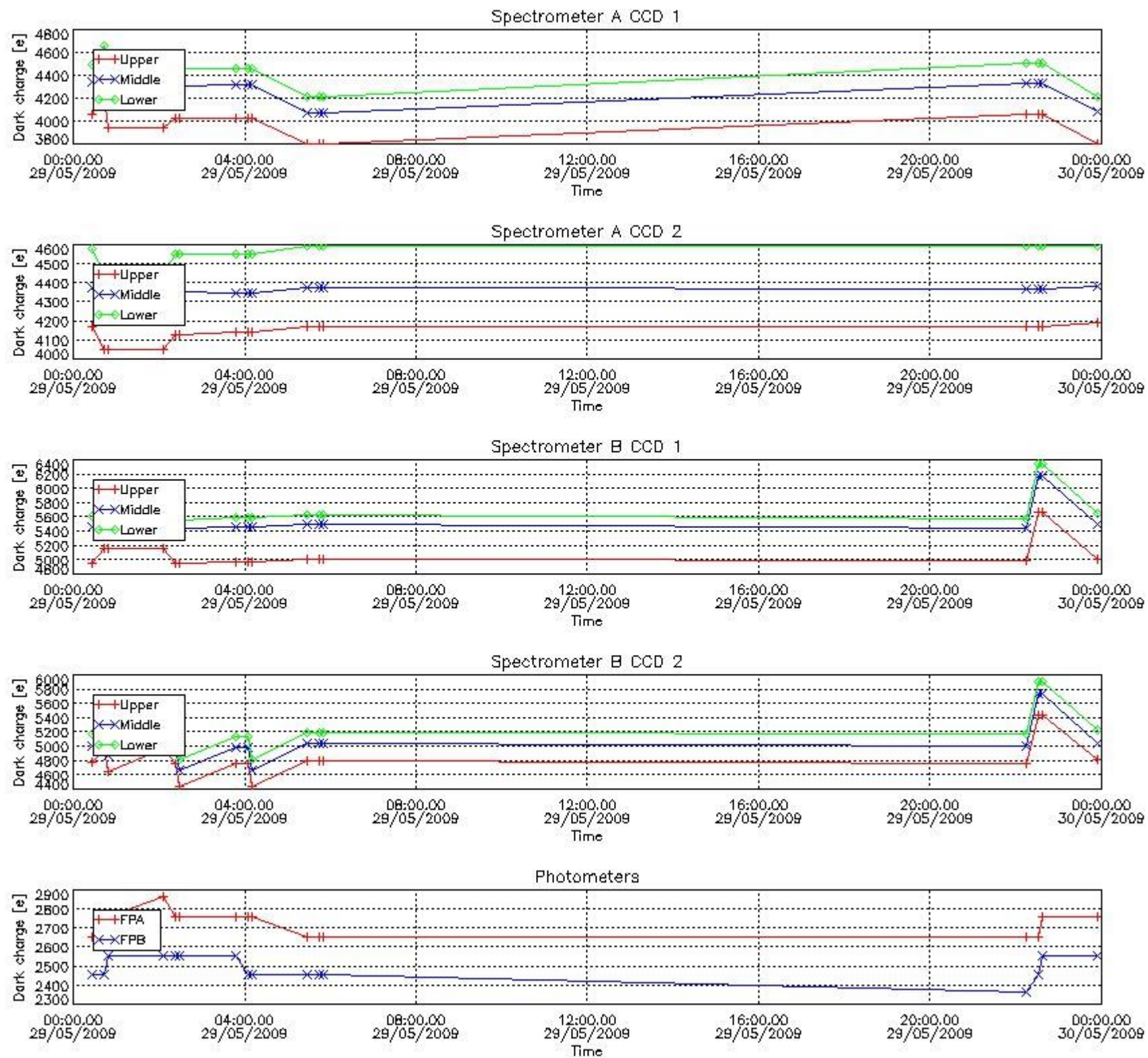
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090529_004318_000000392079_00245_37874_5761.N1	DC map used
GOM_TRA_1PNPDE20090529_004901_000000422079_00246_37875_5762.N1	DC map used
GOM_TRA_1PNPDE20090529_010339_000000332079_00246_37875_5763.N1	DC map used
GOM_TRA_1PNPDE20090529_010457_000000332079_00246_37875_5764.N1	DC map used
GOM_TRA_1PNPDE20090529_011238_000000352079_00246_37875_5765.N1	DC map used
GOM_TRA_1PNPDE20090529_011433_000000322079_00246_37875_5766.N1	DC map used
GOM_TRA_1PNPDE20090529_012511_000000352079_00246_37875_5767.N1	DC map used
GOM_TRA_1PNPDE20090529_012842_000000362079_00246_37875_5768.N1	DC map used
GOM_TRA_1PNPDE20090529_013617_000000352079_00246_37875_5769.N1	DC map used
GOM_TRA_1PNPDE20090529_014704_000000322079_00246_37875_5770.N1	DC map used

GOM_TRA_1PNPDE20090529_020159_000000282079_00246_37875_5771.N1	DC map used
GOM_TRA_1PNPDE20090529_020644_000000292079_00246_37875_5772.N1	DC map used

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



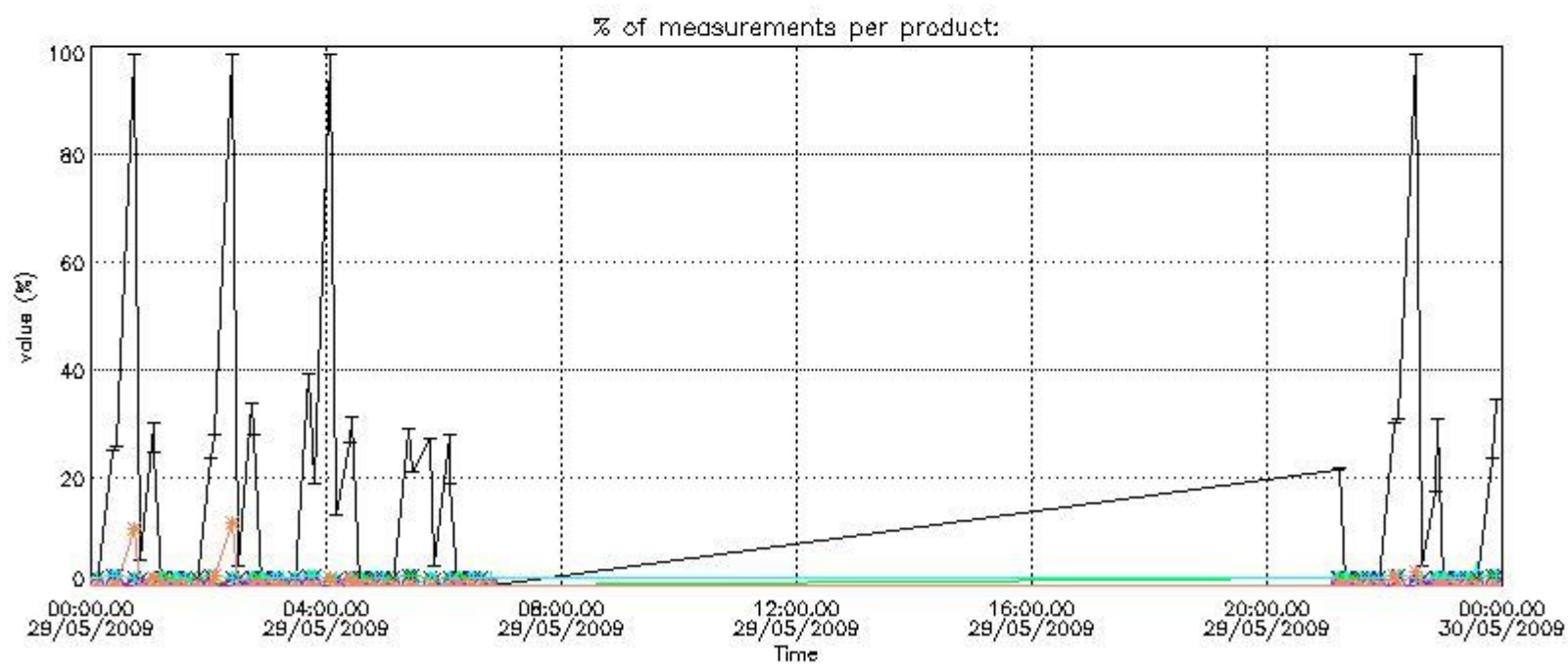
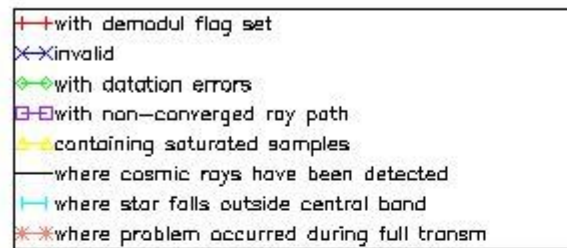
5. Demodulation flag and quality information monitoring

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.

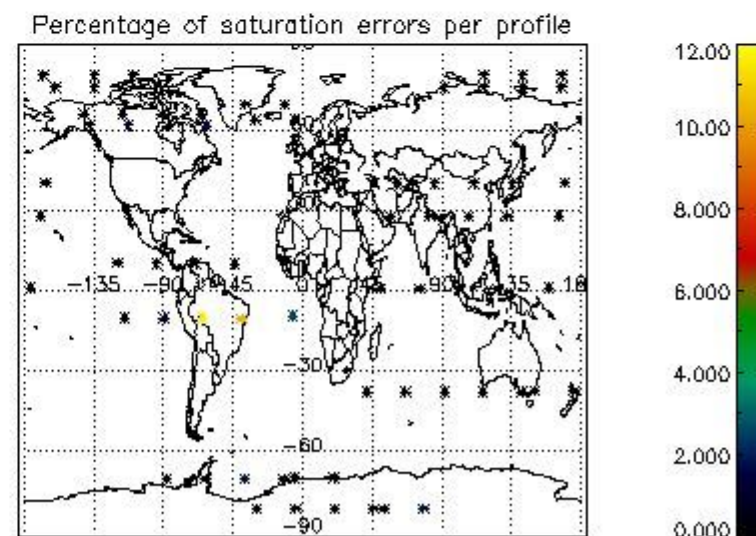
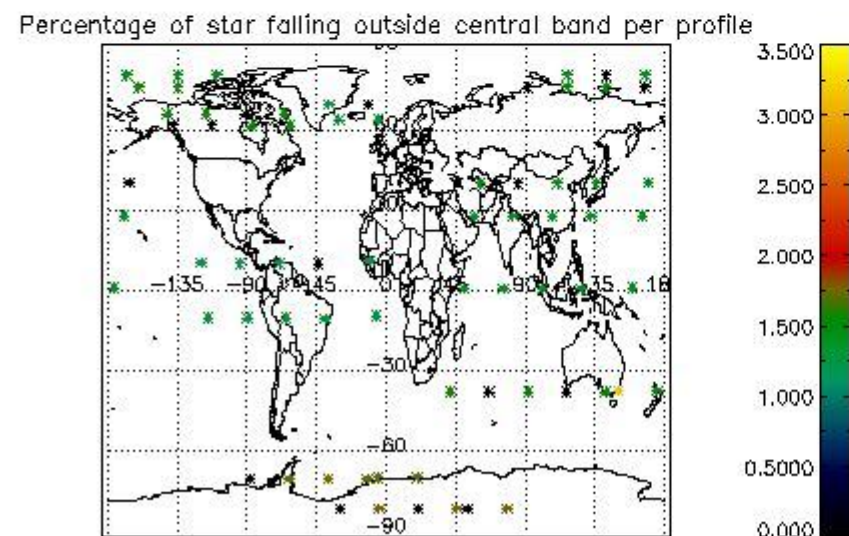
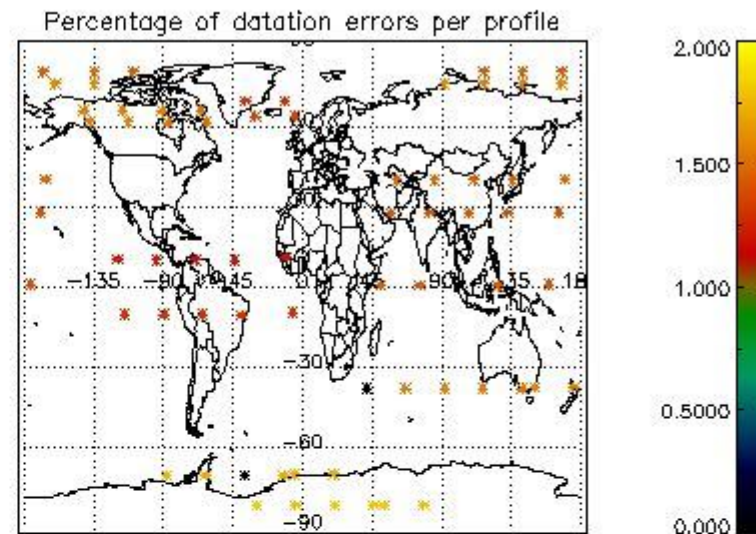
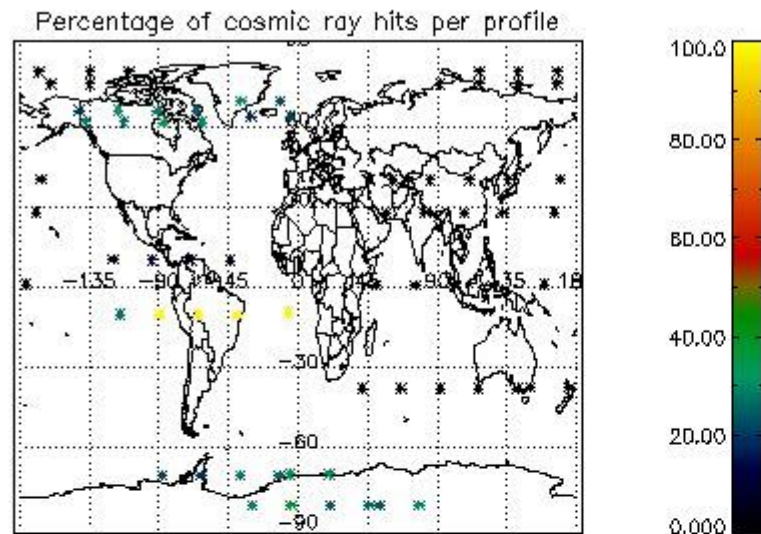
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	33.8028 %
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)



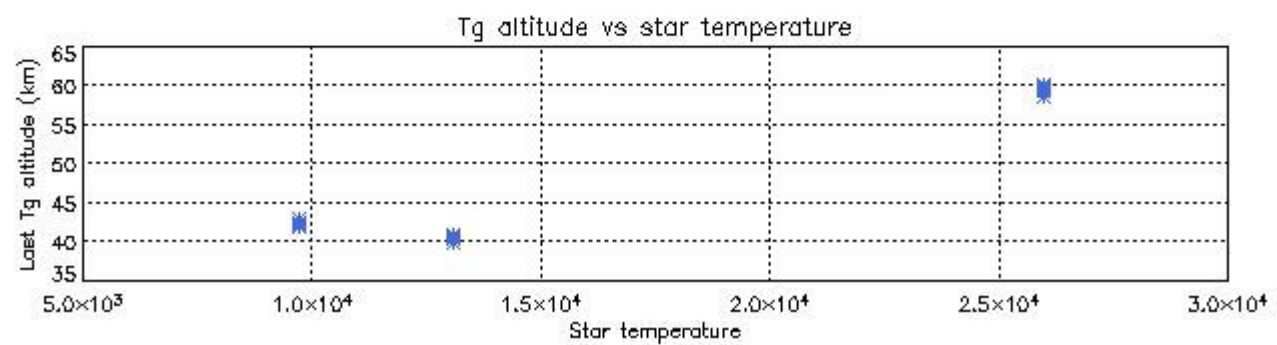
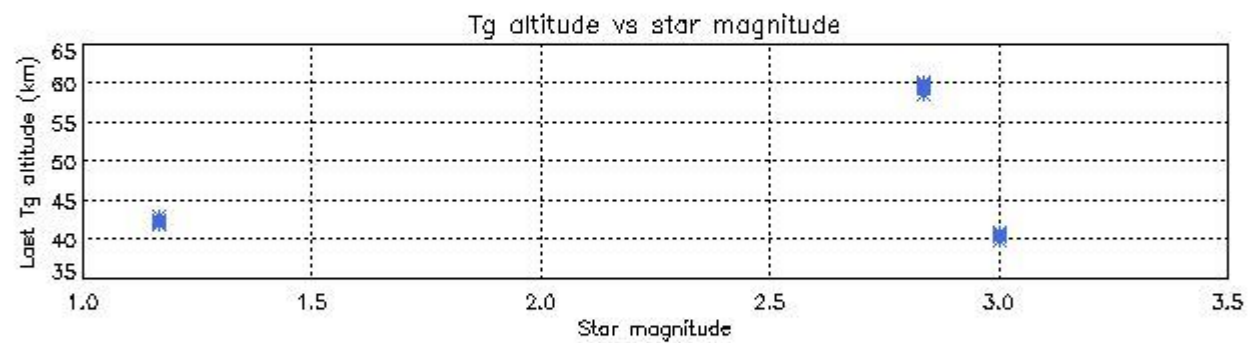
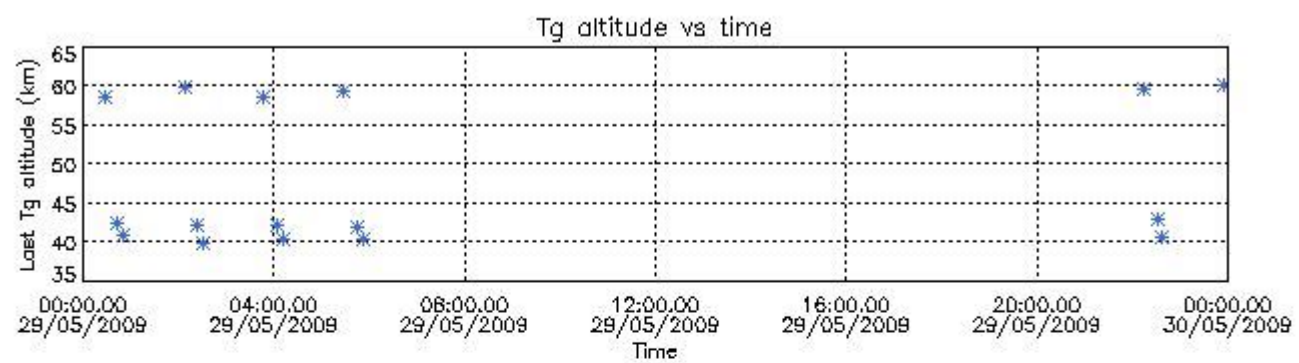
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	48.147	43.788	NaN
St. deviation:	9.0391	2.0329	NaN
Maximum:	60.023	46.590	NaN
Minimum:	39.909	40.872	NaN
Number of data:	16.000	30.000	NaN

### 6.2 Plot for DARK limb products

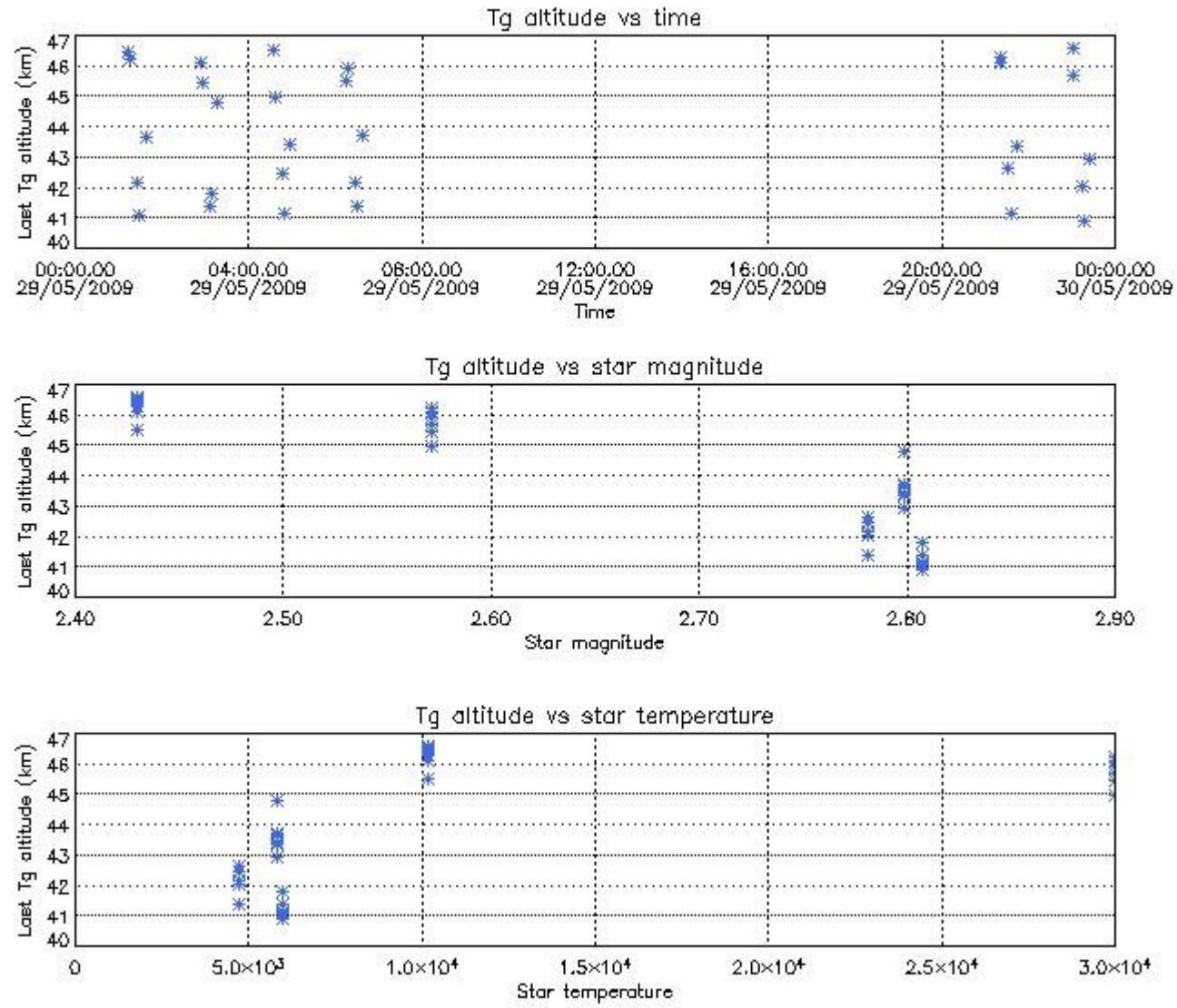
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

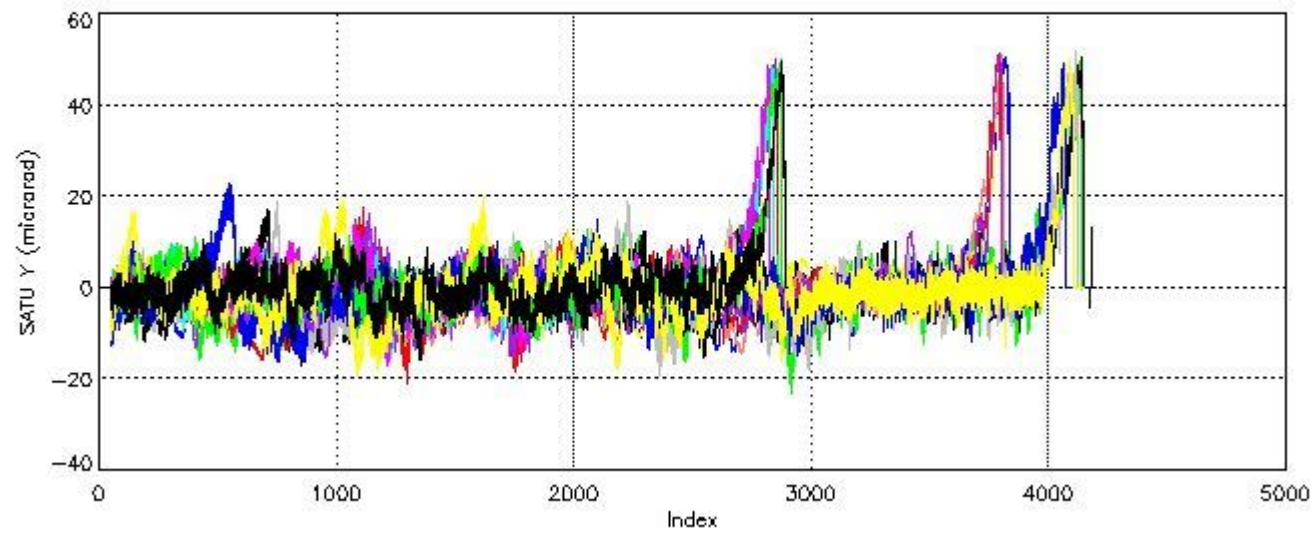
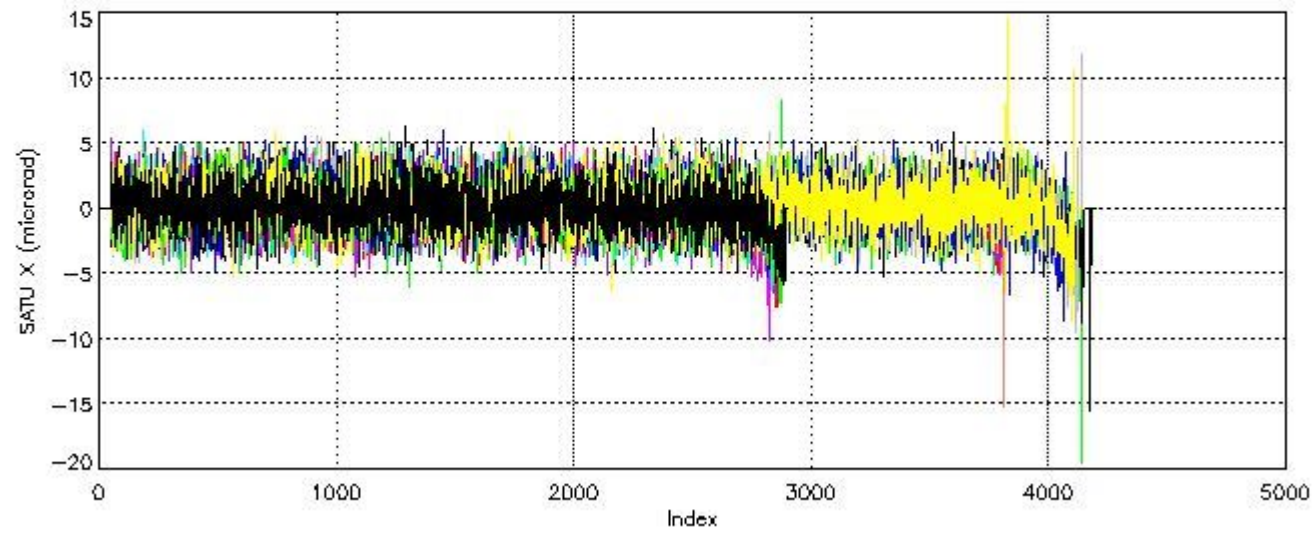


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.31032	-1.3771	0.40583	-1.4719
St. deviation:	1.2043	4.1245	0.98481	3.7274
Maximum:	6.2000	22.700	4.9000	16.800
Minimum:	-5.2000	-19.300	-4.7000	-18.300

Number of data:	18950.	18950.	31500.	31500.
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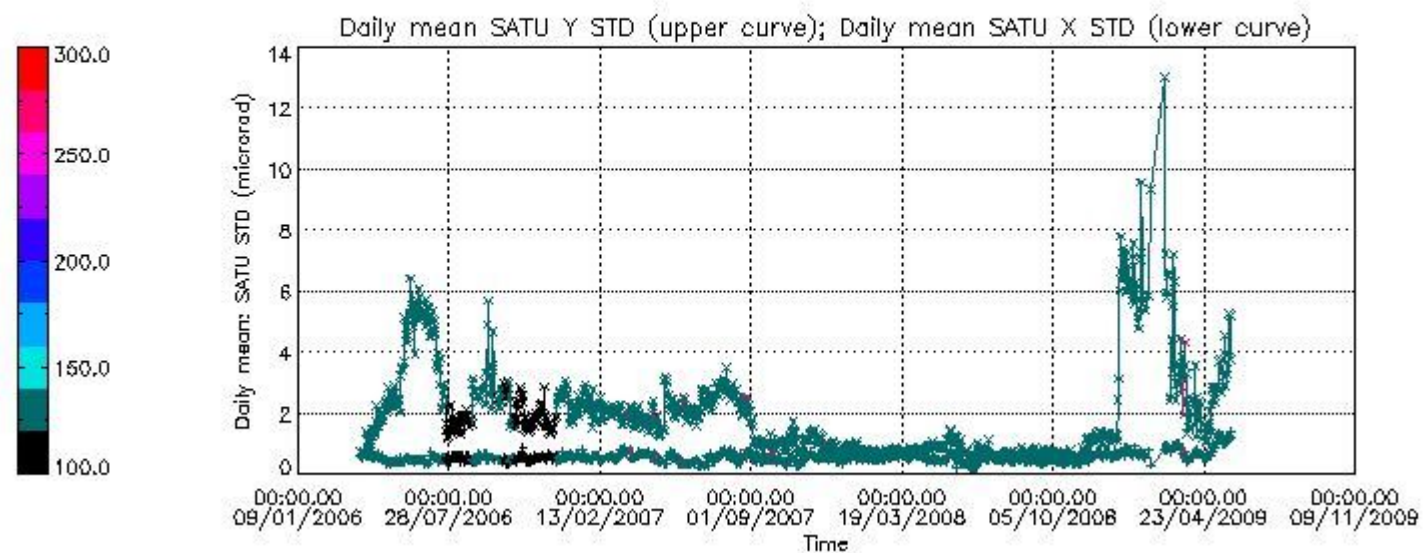
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

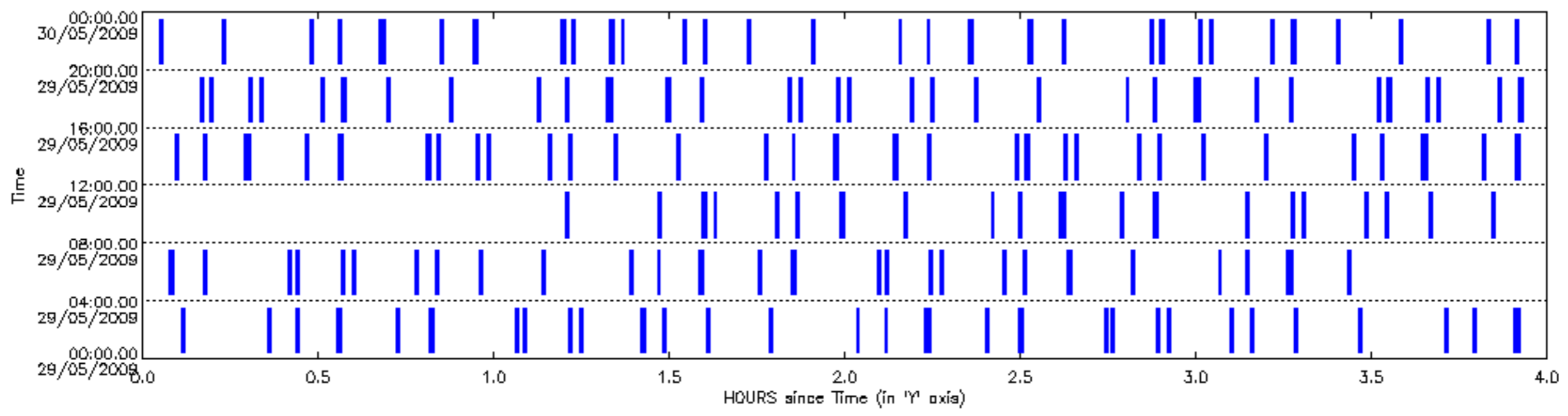
Lower curve: STD of SATU X axis

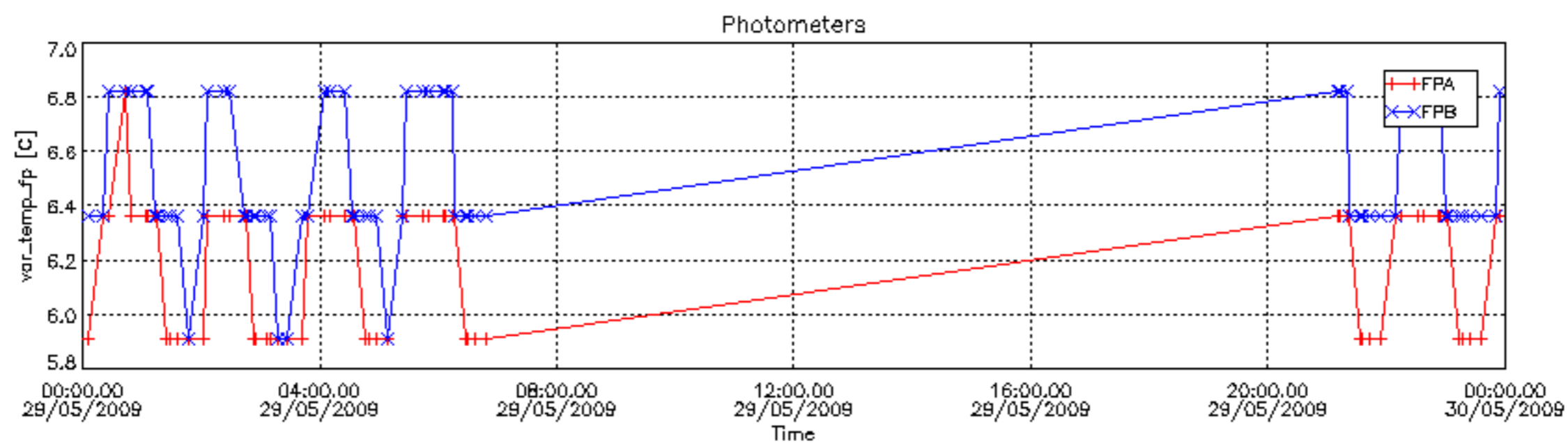
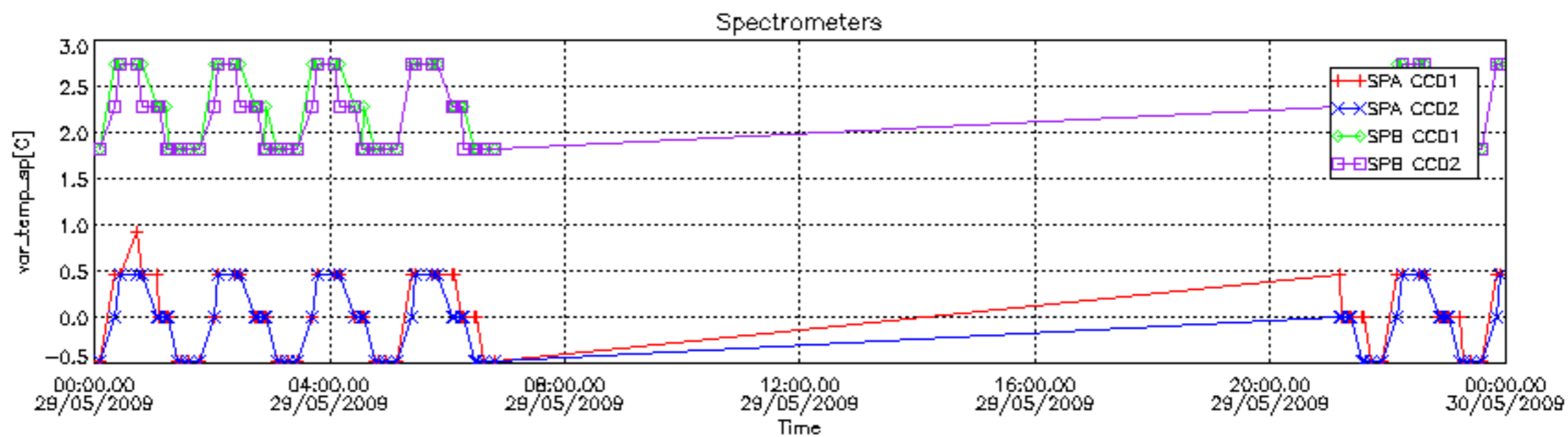


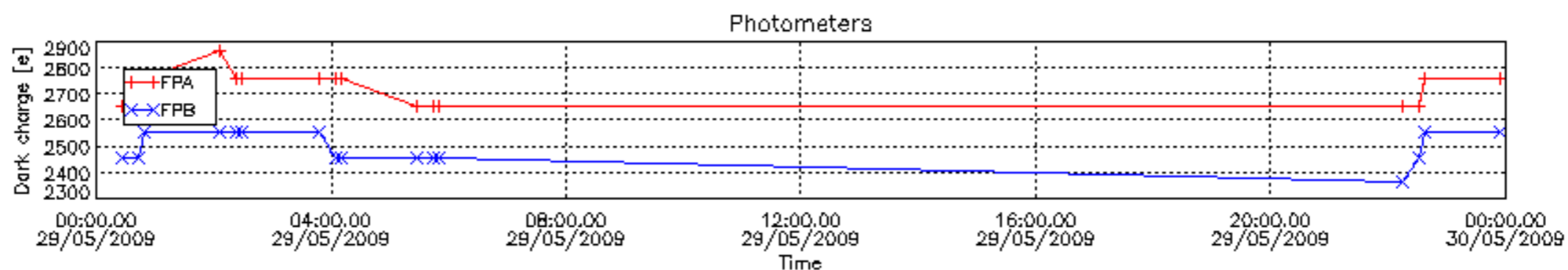
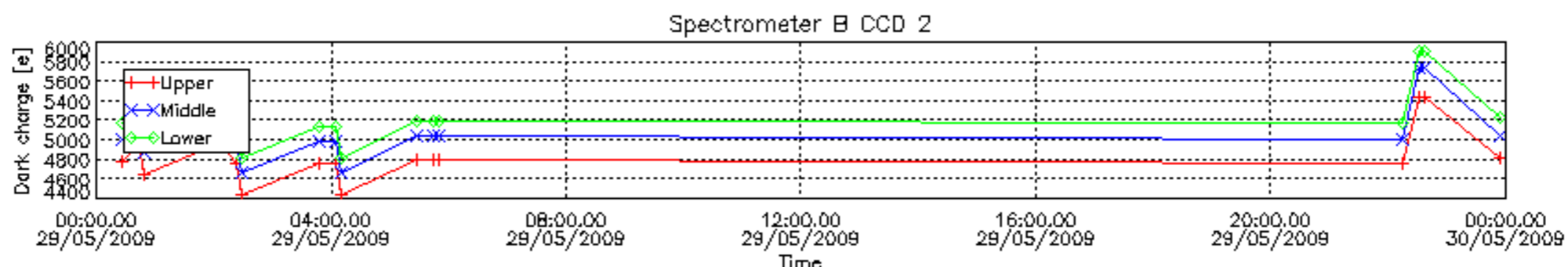
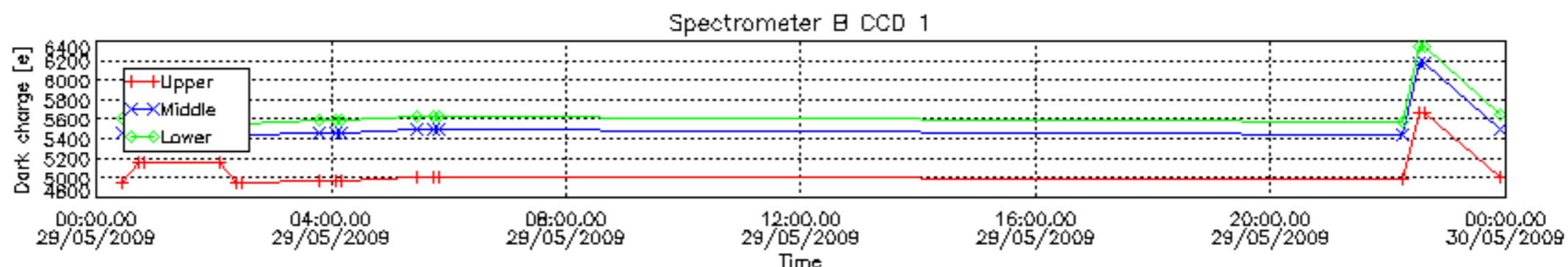
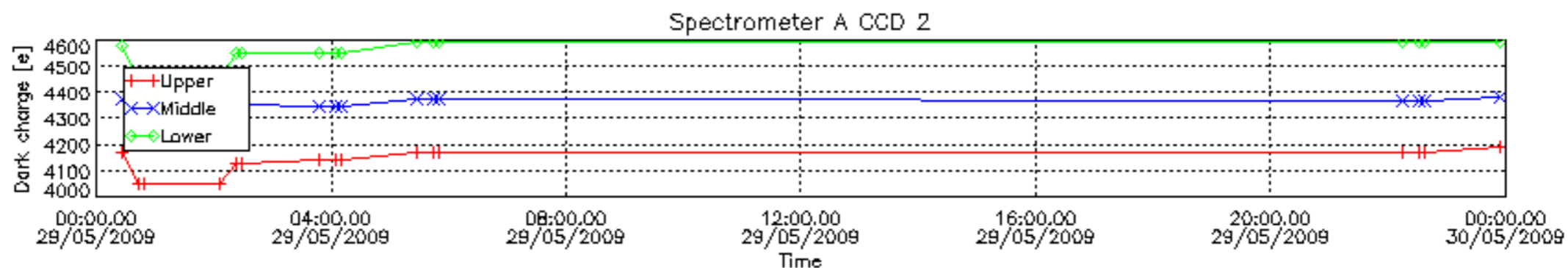
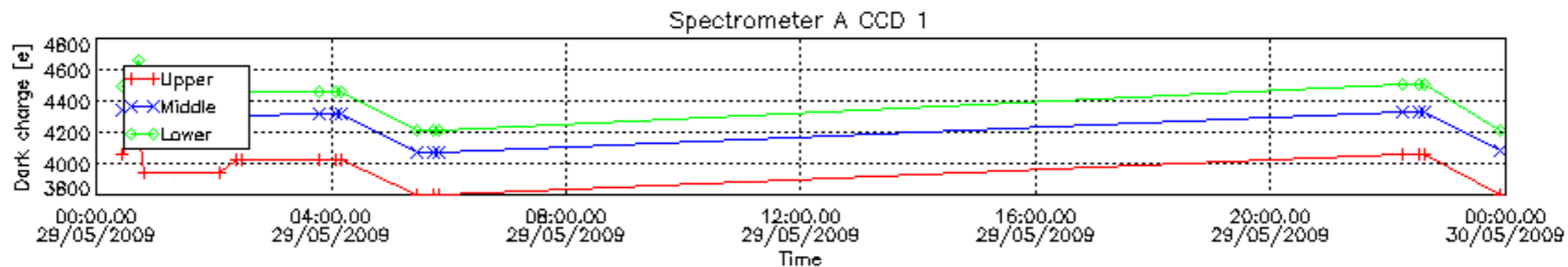
### 8. Auxiliary Data Files used for the production reported in section 2.4

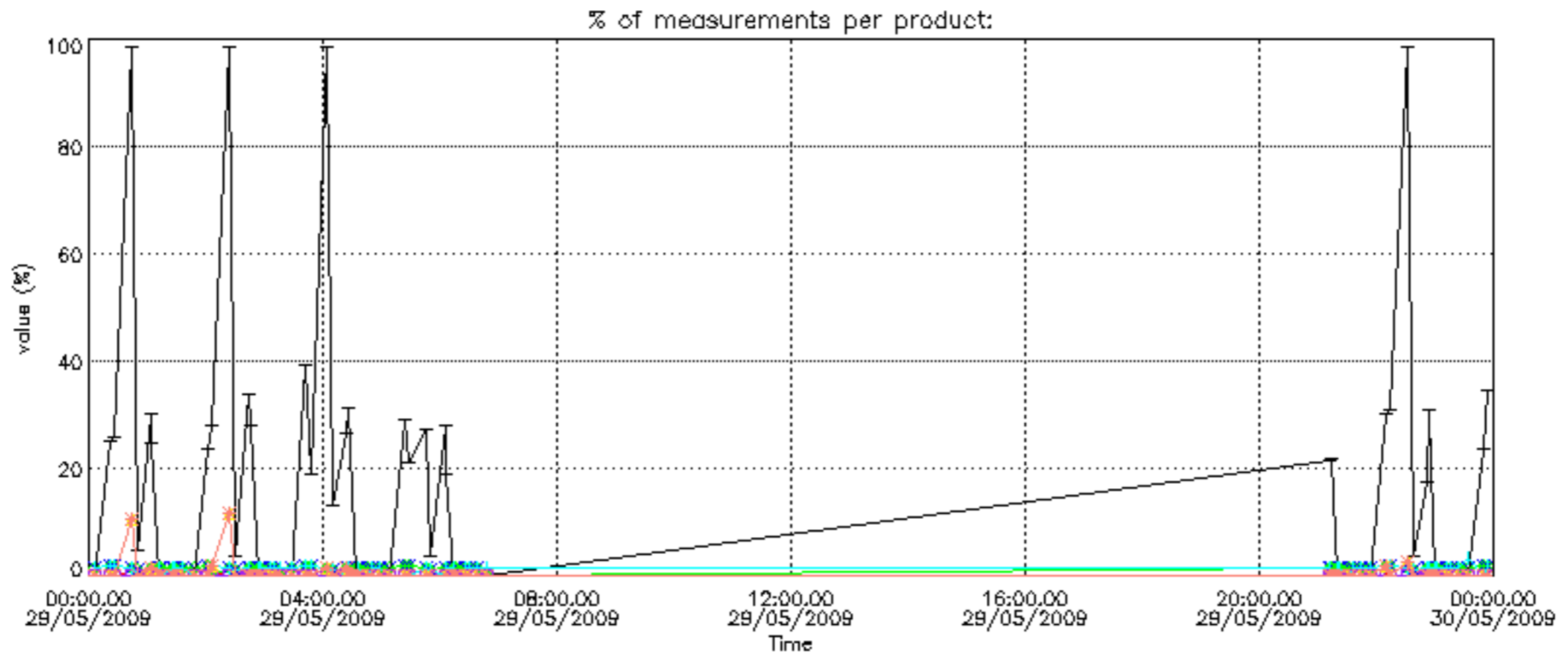
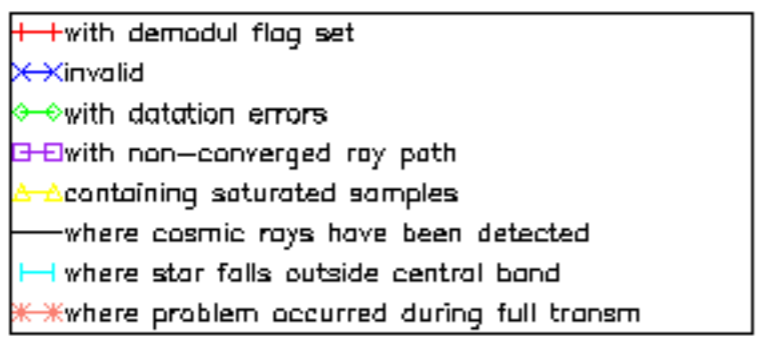
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-MAY-2009 00:06:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090526_074004_20090517_000000_20100101_000000	1	29-MAY-2009 00:06:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-MAY-2009 00:06:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-MAY-2009 00:06:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-MAY-2009 00:06:29
ECMWF_FILE	AUX_ECF_AXNECM20090528_064112_20090528_210000_20090529_090000	1	29-MAY-2009 00:06:29
ECMWF_FILE	AUX_ECF_AXNECM20090528_182112_20090529_030000_20090529_150000	25	29-MAY-2009 03:27:40
ECMWF_FILE	AUX_ECF_AXNECM20090529_064112_20090529_210000_20090530_090000	50	29-MAY-2009 21:11:30
OPTIONAL_ECMWF_FILE	MISSING	1	29-MAY-2009 00:06:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090528_210350_000060572079_00243_37872_8038.N1	1	29-MAY-2009 00:06:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090528_225006_000057382079_00244_37873_8039.N1	4	29-MAY-2009 00:43:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090529_003103_000054192079_00245_37874_8040.N1	16	29-MAY-2009 02:23:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090529_020641_000044632079_00246_37875_8041.N1	25	29-MAY-2009 03:27:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090529_032623_000057382079_00247_37876_8042.N1	37	29-MAY-2009 05:08:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090529_210342_000041442079_00258_37887_8044.N1	50	29-MAY-2009 21:11:30

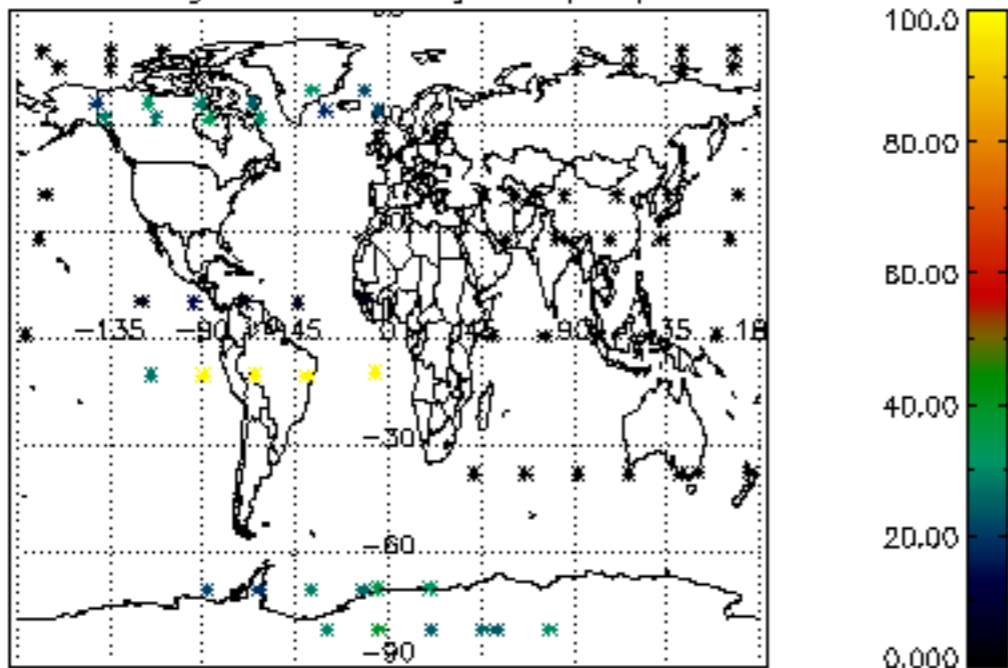




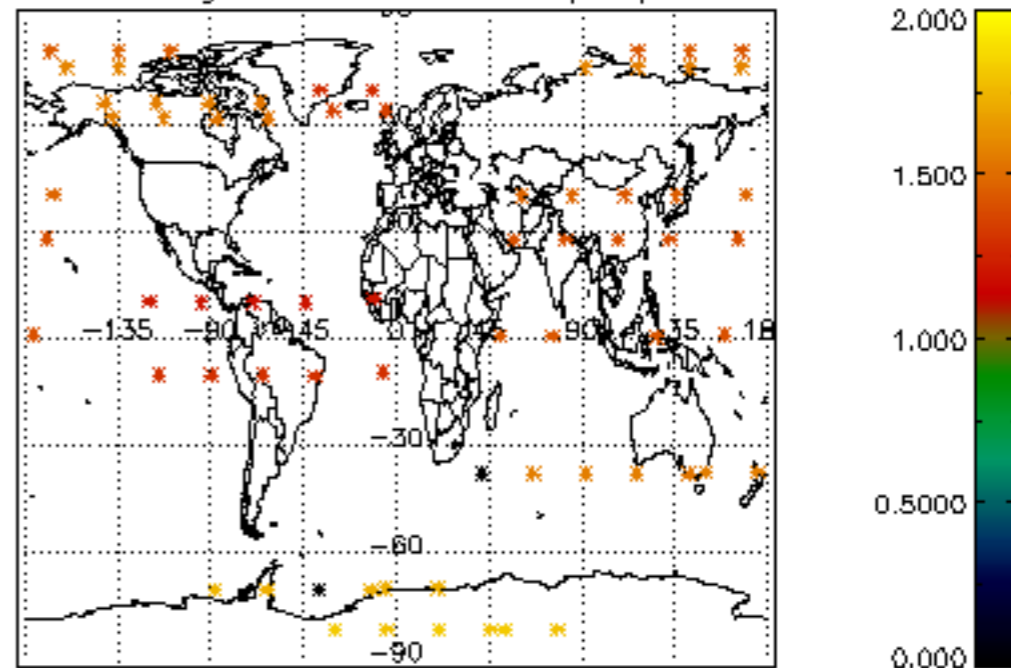




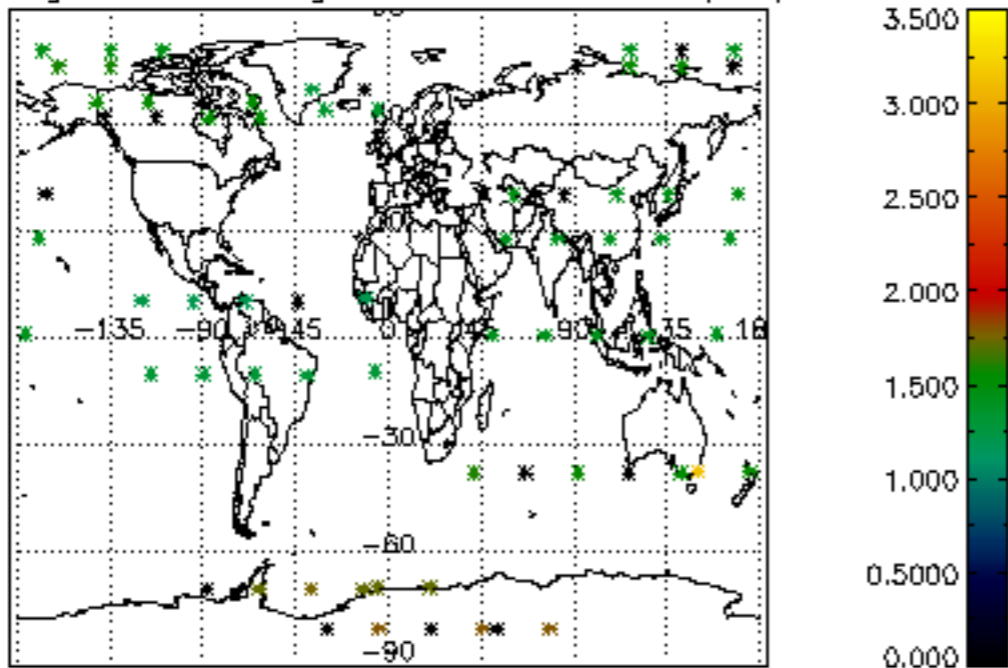
Percentage of cosmic ray hits per profile



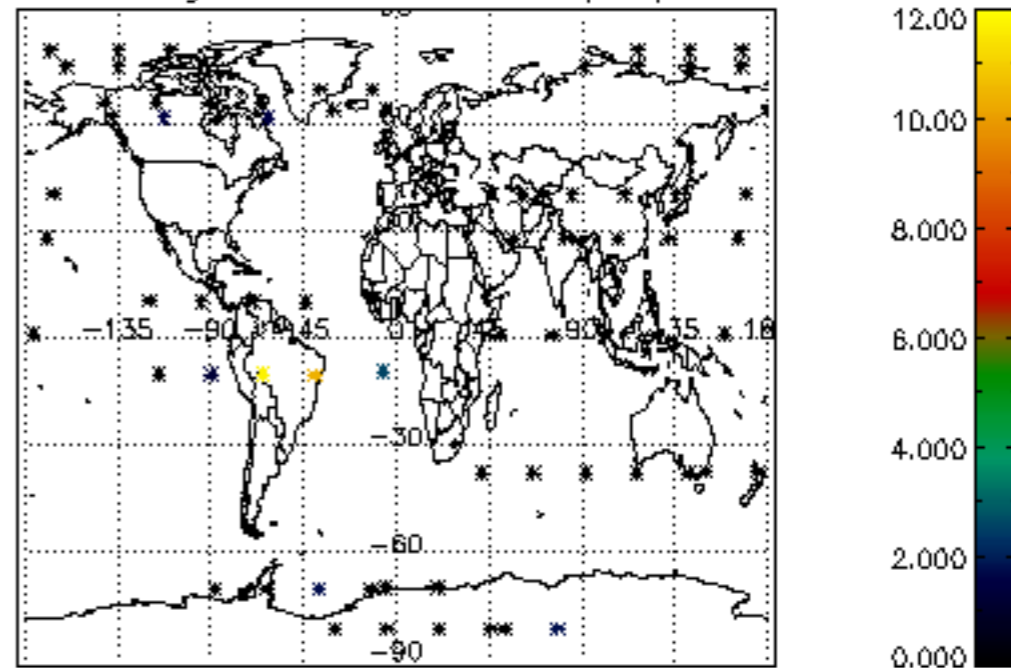
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

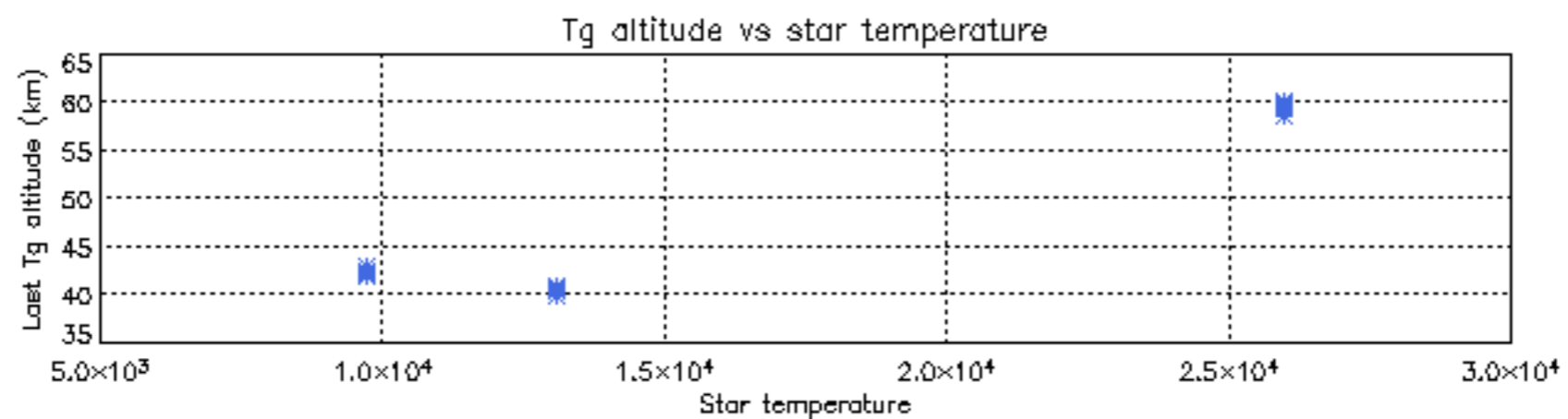
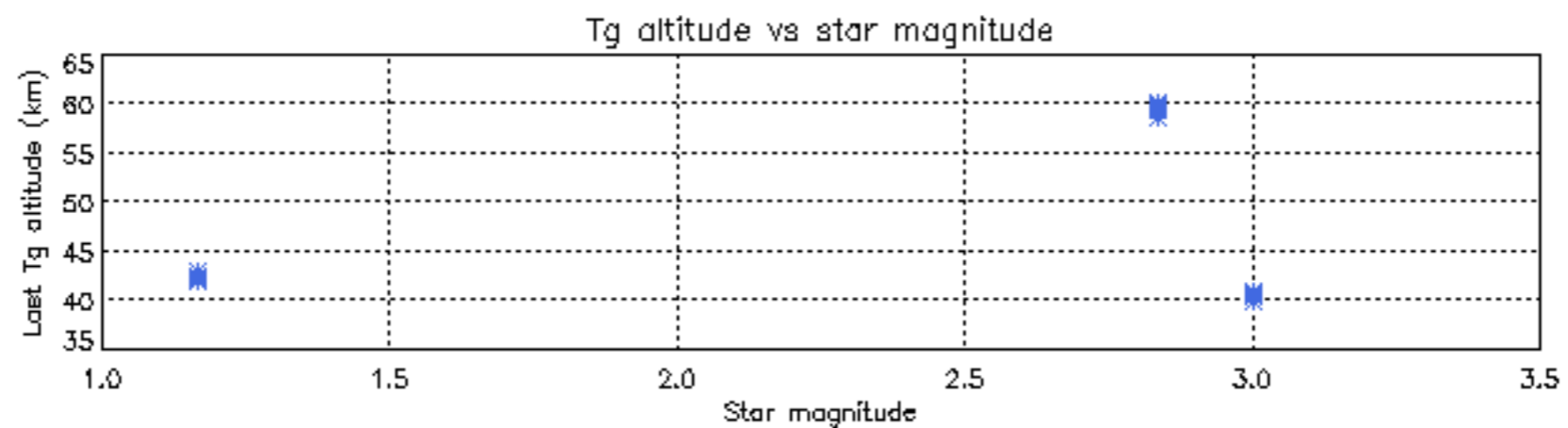
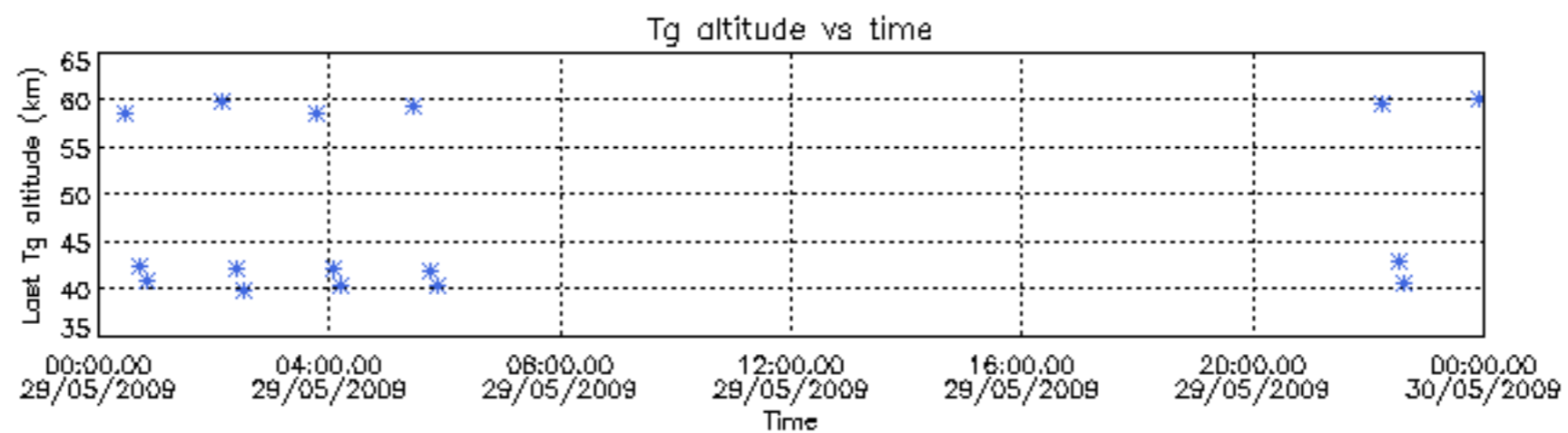


Percentage of saturation errors per profile

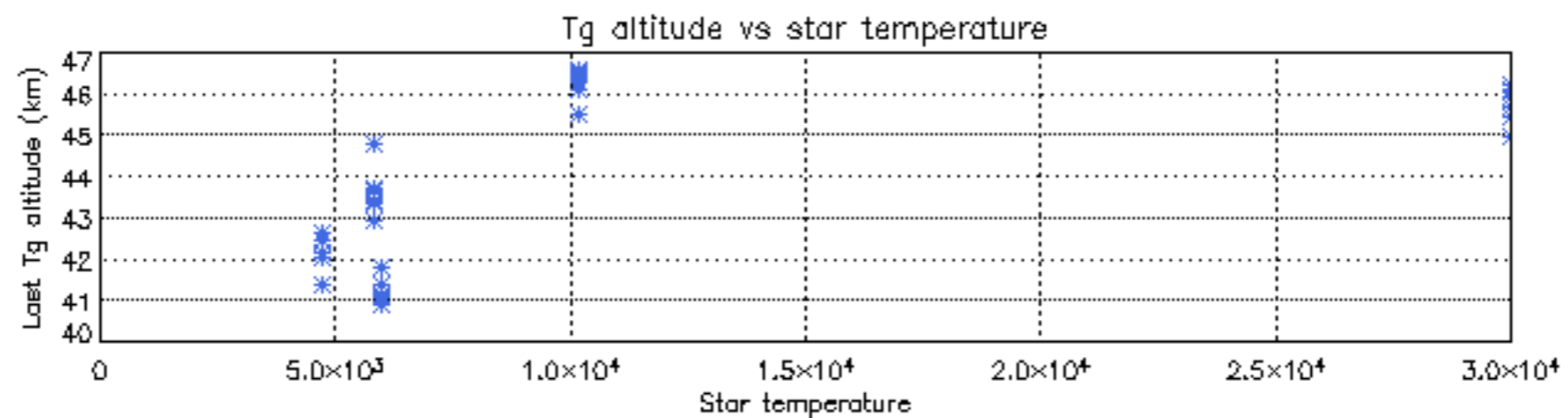
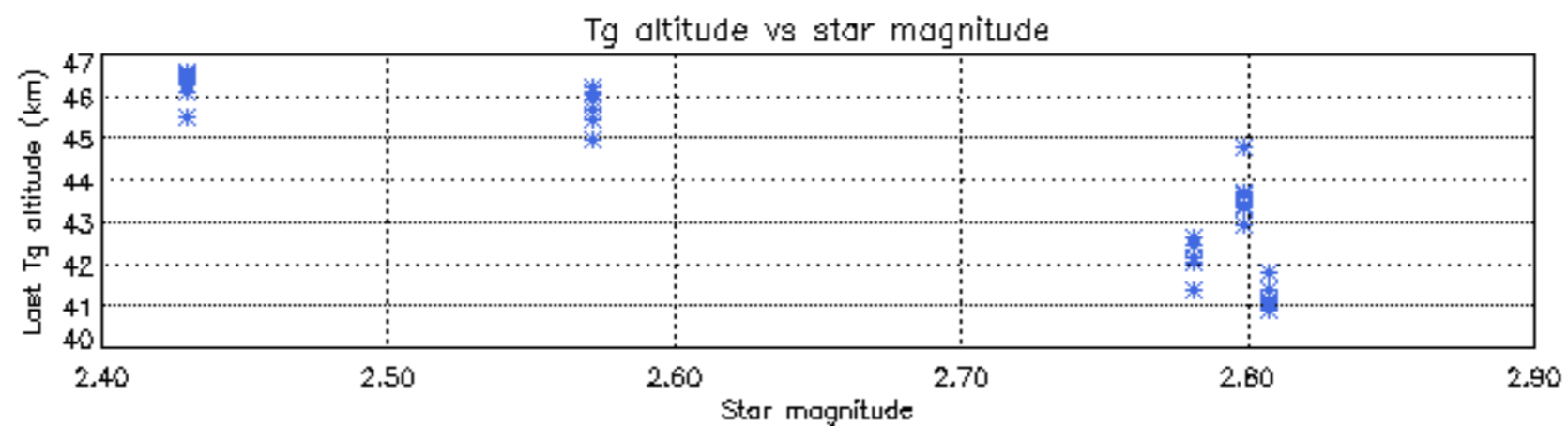
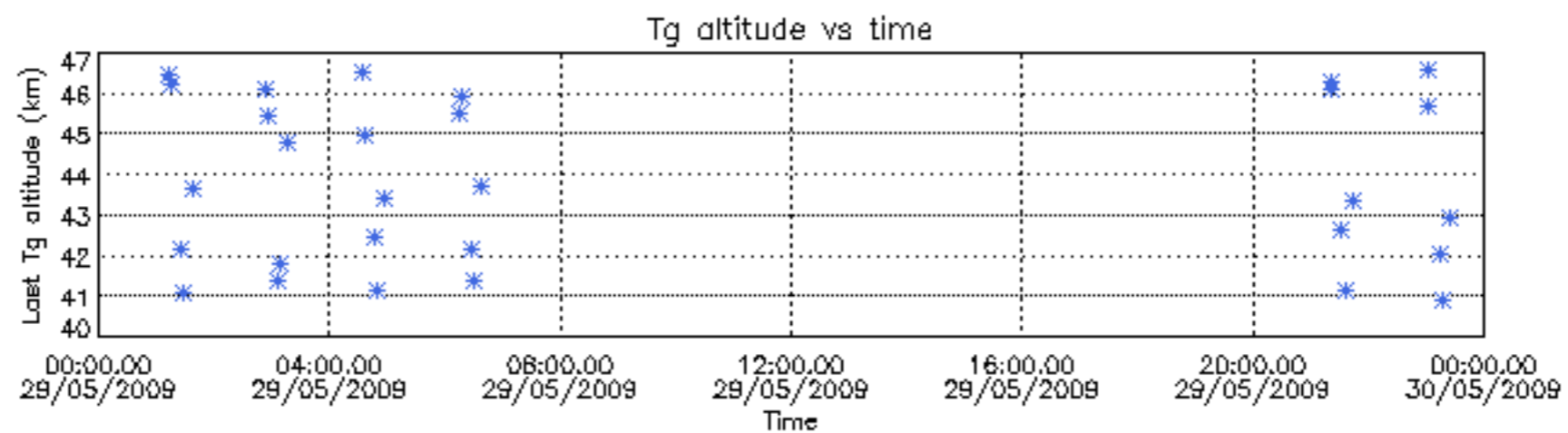


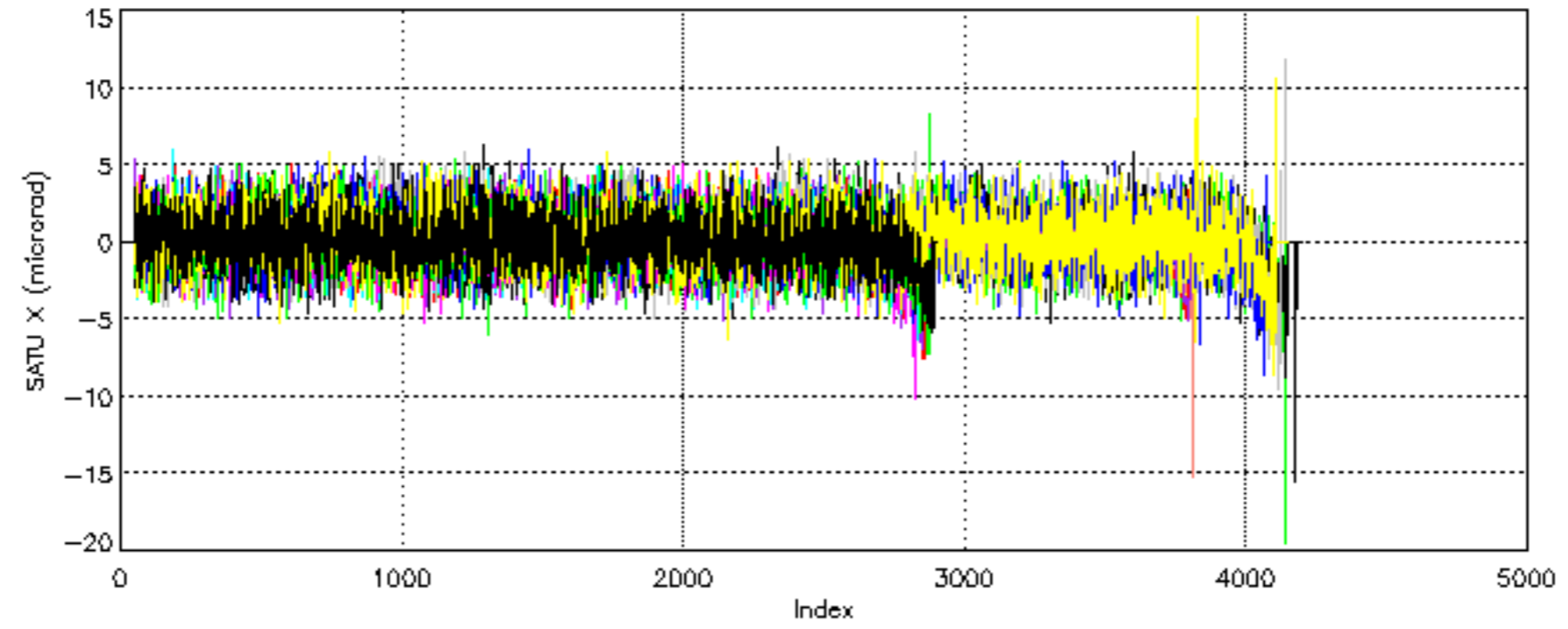


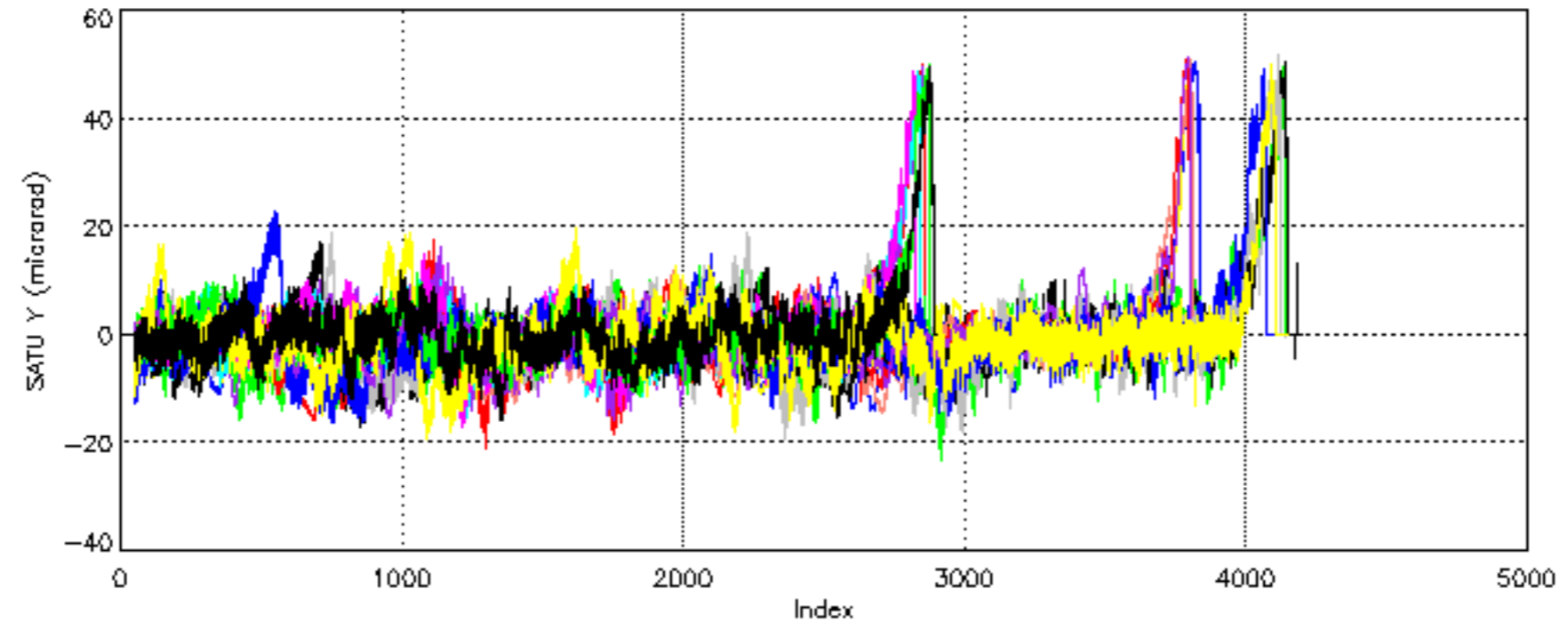
Tangent altitude at which the star is lost

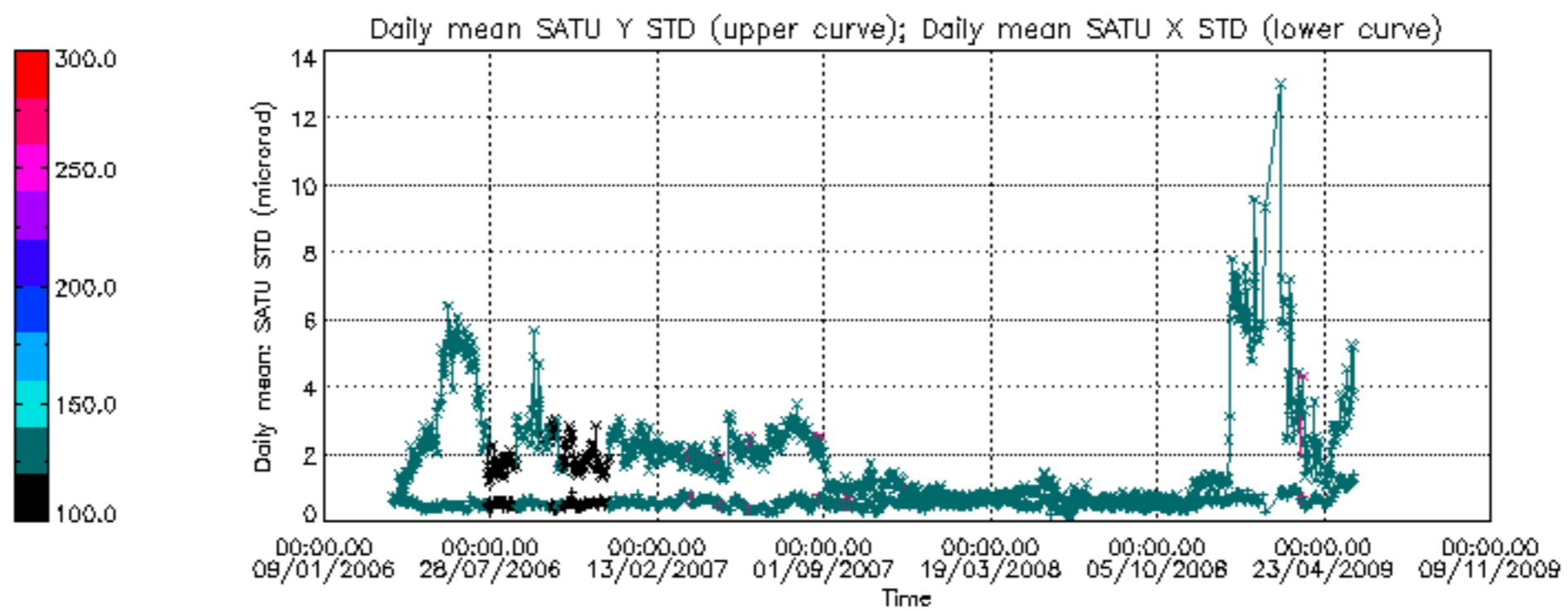


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090501\_001529\_000058432078\_00345\_37473\_7694.N1

1; -633.7; 01-MAY-2009 00:15:29; Dark ; 60.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 121; 0;37473  
 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  
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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
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4; 3179.4; 04-MAY-2009 13:08:58; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;37524
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4; 2430.3; 04-MAY-2009 16:17:41; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37526
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2; 808.3; 05-MAY-2009 23:42:02; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37545  
3; 917.8; 05-MAY-2009 23:43:51; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37545  
4; 1088.5; 05-MAY-2009 23:46:42; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37545  
5; 1299.2; 05-MAY-2009 23:50:13; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;37545  
6; 1420.9; 05-MAY-2009 23:52:14; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37545  
7; 1725.8; 05-MAY-2009 23:57:19; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37545  
8; 2422.7; 06-MAY-2009 00:08:56; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37545  
9; 2610.2; 06-MAY-2009 00:12:04; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37545  
10; 3166.9; 06-MAY-2009 00:21:20; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37545  
11; 3805.5; 06-MAY-2009 00:31:59; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37545  
12; 4550.3; 06-MAY-2009 00:44:24; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37545  
13; 4799.0; 06-MAY-2009 00:48:33; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37545

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

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

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5; 3172.8; 05-MAY-2009 07:35:27; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37535
6; 3808.9; 05-MAY-2009 07:46:03; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37535
7; 4548.4; 05-MAY-2009 07:58:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37535
8; 5233.5; 05-MAY-2009 08:09:48; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37535
9; 5636.2; 05-MAY-2009 08:16:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37535
10; 6837.4; 05-MAY-2009 08:36:32; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37535
11; 6946.2; 05-MAY-2009 08:38:20; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37535
12; 7118.9; 05-MAY-2009 08:41:13; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37535
13; 7331.1; 05-MAY-2009 08:44:45; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37535
14; 7454.7; 05-MAY-2009 08:46:49; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
15; 7761.8; 05-MAY-2009 08:51:56; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37535
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1; 2426.7; 05-MAY-2009 09:03:37; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;37536
2; 2610.2; 05-MAY-2009 09:06:40; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;37536
3; 3172.2; 05-MAY-2009 09:16:02; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;37536
4; 3808.2; 05-MAY-2009 09:26:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37536
5; 4548.6; 05-MAY-2009 09:38:59; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37536
6; 4795.8; 05-MAY-2009 09:43:06; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37536
7; 5234.4; 05-MAY-2009 09:50:25; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37536
8; 5637.5; 05-MAY-2009 09:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37536
9; 6838.1; 05-MAY-2009 10:17:08; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37536
10; 6947.2; 05-MAY-2009 10:18:57; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37536
11; 7119.6; 05-MAY-2009 10:21:50; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37536
12; 7331.7; 05-MAY-2009 10:25:22; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37536
13; 7454.9; 05-MAY-2009 10:27:25; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37536
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1; 1725.8; 05-MAY-2009 10:32:32; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37537
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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1; 1725.7; 05-MAY-2009 12:13:08; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37538
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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1; 1725.6; 05-MAY-2009 13:53:43; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37539
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
4; 1725.8; 05-MAY-2009 17:14:56; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37541
5; 2424.5; 05-MAY-2009 17:26:34; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;37541
6; 2608.6; 05-MAY-2009 17:29:38; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37541
7; 3169.7; 05-MAY-2009 17:38:59; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37541
8; 3807.4; 05-MAY-2009 17:49:37; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37541
9; 4549.8; 05-MAY-2009 18:02:00; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37541
10; 4797.9; 05-MAY-2009 18:06:08; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37541
11; 5239.2; 05-MAY-2009 18:13:29; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37541
12; 5644.3; 05-MAY-2009 18:20:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37541
13; 6842.4; 05-MAY-2009 18:40:12; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;37541
14; 6951.7; 05-MAY-2009 18:42:01; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;37541
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2; 1297.8; 05-MAY-2009 18:48:24; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37542
3; 1420.1; 05-MAY-2009 18:50:26; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37542
4; 1725.7; 05-MAY-2009 18:55:32; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37542
5; 2423.9; 05-MAY-2009 19:07:10; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37542
6; 2607.9; 05-MAY-2009 19:10:14; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;37542
7; 3168.8; 05-MAY-2009 19:19:35; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37542
8; 3806.7; 05-MAY-2009 19:30:12; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;37542
9; 4549.7; 05-MAY-2009 19:42:36; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37542
10; 4798.1; 05-MAY-2009 19:46:44; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37542
11; 5240.3; 05-MAY-2009 19:54:06; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37542
12; 5645.7; 05-MAY-2009 20:00:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37542
13; 6843.0; 05-MAY-2009 20:20:49; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37542
14; 6952.3; 05-MAY-2009 20:22:38; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37542
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2; 809.4; 06-MAY-2009 01:22:39; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;37546
3; 919.2; 06-MAY-2009 01:24:29; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37546
4; 1089.4; 06-MAY-2009 01:27:19; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;37546
5; 1299.6; 06-MAY-2009 01:30:49; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;37546
6; 1421.3; 06-MAY-2009 01:32:51; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37546
7; 1725.6; 06-MAY-2009 01:37:55; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37546
8; 2422.1; 06-MAY-2009 01:49:32; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37546
9; 2517.8; 06-MAY-2009 01:51:07; Bright; 49.0; 67; 5Alp CrB ; 2.22; 11000;occ; 98; 0;37546
10; 3166.1; 06-MAY-2009 02:01:56; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37546
11; 3804.8; 06-MAY-2009 02:12:34; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37546
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3; -384.8; 06-MAY-2009 02:43:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37546
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5; 919.8; 06-MAY-2009 03:05:05; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37547
6; 1089.6; 06-MAY-2009 03:07:55; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37547
7; 1299.7; 06-MAY-2009 03:11:25; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37547
8; 1421.5; 06-MAY-2009 03:13:27; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37547
9; 1725.4; 06-MAY-2009 03:18:31; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37547
10; 2422.4; 06-MAY-2009 03:30:08; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;37547

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4; 1424.4; 06-MAY-2009 19:59:29; Dark ; 45.0; 80; 7Del Sco ; 2.32; 30000;occ; 90; 0;37557
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 9; 4830.5; 28-MAY-2009 17:43:42; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37870  
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 6; 2341.6; 28-MAY-2009 18:42:49; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;37871  
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 9; 3655.8; 28-MAY-2009 19:04:43; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37871  
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 11; 4831.0; 28-MAY-2009 19:24:19; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37871  
 12; 5244.1; 28-MAY-2009 19:31:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37871  
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 3; 1047.4; 29-MAY-2009 01:03:39; Dark ; 33.0; 178; Iot1Sco ; 3.02; 6550;occ; 66; 0;37875  
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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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 7; 1701.4; 29-MAY-2009 02:55:08; Bright; 32.0; 98; 13Zet Oph ; 2.57; 30000;occ; 64; 0;37876  
 8; 2339.1; 29-MAY-2009 03:05:46; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;37876  
 9; 2550.6; 29-MAY-2009 03:09:18; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37876  
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 3; -1202.7; 29-MAY-2009 03:47:20; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37876  
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6; 174.5; 29-MAY-2009 05:50:54; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;37878
7; 1049.4; 29-MAY-2009 06:05:28; Dark ; 32.0; 178; Iot1Sco ; 3.02; 6550;occ; 64; 0;37878
8; 1127.4; 29-MAY-2009 06:06:47; Dark ; 32.0; 25; 35Lam Sco ; 1.62; 28000;occ; 64; 0;37878
9; 1587.2; 29-MAY-2009 06:14:26; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;37878
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13; 3003.5; 29-MAY-2009 06:38:03; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;37878
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3; 1587.8; 29-MAY-2009 21:19:50; Bright; 34.5; 86; 35Eta Oph ; 2.43; 10200;occ; 69; 0;37887
4; 1701.5; 29-MAY-2009 21:21:44; Bright; 31.5; 98; 13Zet Oph ; 2.57; 30000;occ; 63; 0;37887
5; 2334.3; 29-MAY-2009 21:32:17; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;37887
6; 2544.1; 29-MAY-2009 21:35:47; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37887
7; 2996.5; 29-MAY-2009 21:43:19; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37887
8; 3646.7; 29-MAY-2009 21:54:09; Bright; 32.0; 89; 5Alp Cep ; 2.45; 8000;occ; 64; 0;37887
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4; 1087.8; 29-MAY-2009 22:52:06; Dark ; 37.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 74; 0;37888
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7; 1701.6; 29-MAY-2009 23:02:20; Bright; 31.5; 98; 13Zet Oph ; 2.57; 30000;occ; 63; 0;37888
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