

# GOMOS Daily Report 03-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	08MAY2009 04:48:13
Data source version	GOMOS/5.00
Start time of products	03MAY2009 00:03:30
Stop time of products	03MAY2009 06:58:23
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)

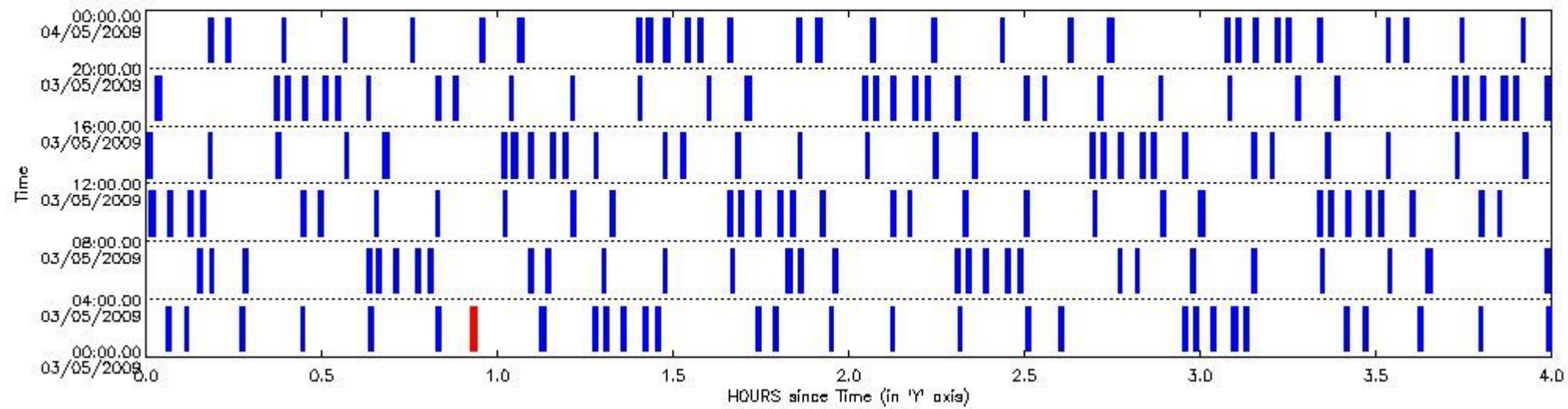
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

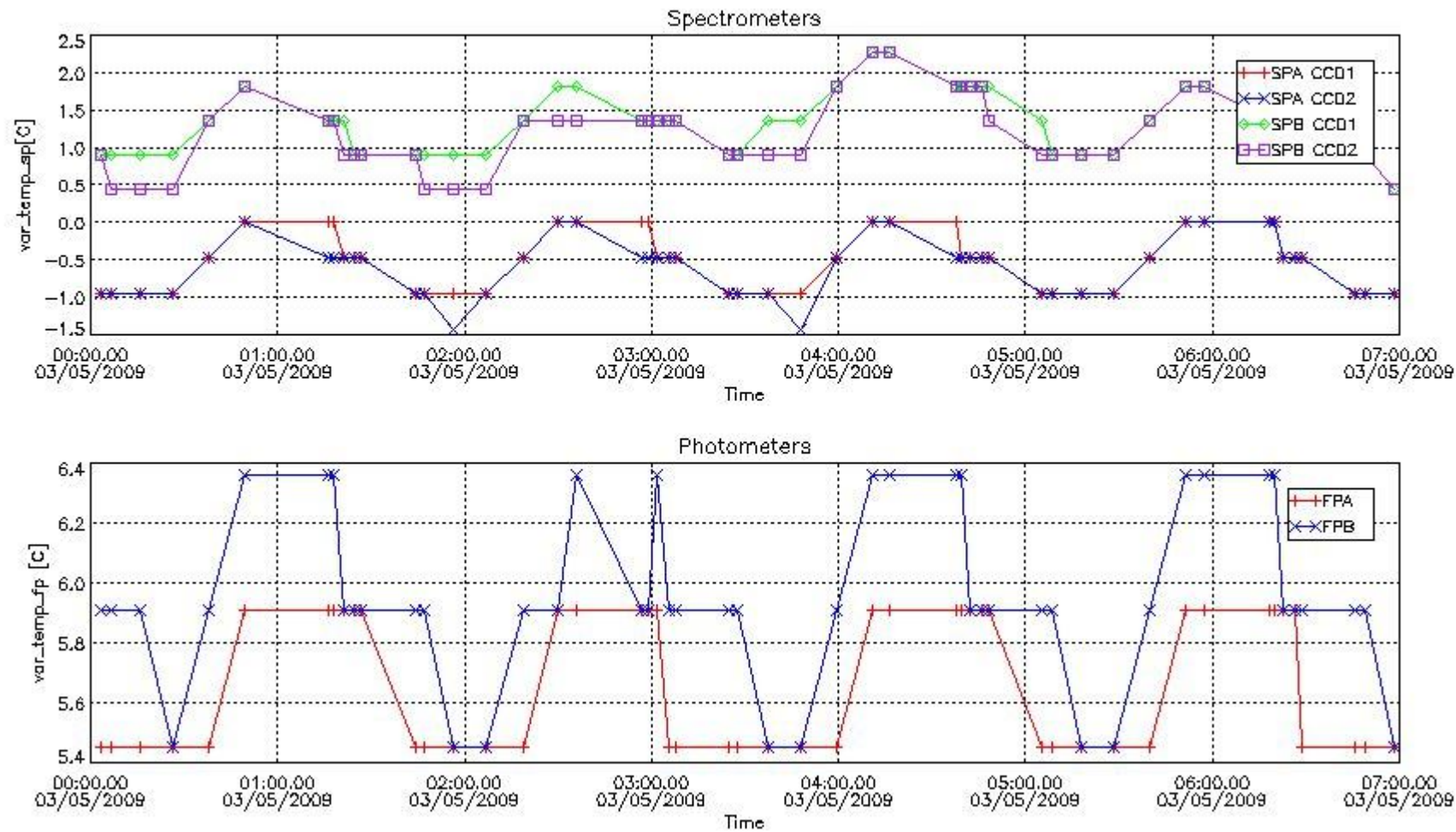
UTC start time	Star name	Star ID	Orbit
03-MAY-2009 00:55:19	49DelCap	142	37502

### 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_1PNPDE20090503_000330_000000422078_00374_37502_8589.N1	03-MAY-2009 00:03:30	Bright	41.500	83		2.3780	11000.	83	37502	No
2	GOM_TRA_1PNPDE20090503_000632_000000422078_00374_37502_8590.N1	03-MAY-2009 00:06:32	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	37502	No
3	GOM_TRA_1PNPDE20090503_001601_000000432078_00374_37502_8591.N1	03-MAY-2009 00:16:01	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	37502	No
4	GOM_TRA_1PNPDE20090503_002628_000000372078_00374_37502_8592.N1	03-MAY-2009 00:26:28	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37502	No
5	GOM_TRA_1PNPDE20090503_003802_000000352078_00374_37502_8593.N1	03-MAY-2009 00:38:02	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	37502	No
6	GOM_TRA_1PNPDE20090503_004931_000000442078_00374_37502_8594.N1	03-MAY-2009 00:49:31	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	37502	No
7	GOM_TRA_1PNPDE20090503_011618_000000492078_00375_37503_8715.N1	03-MAY-2009 01:16:18	Straylight	49.000	40	The Sco	1.8590	7100.0	98	37503	No
8	GOM_TRA_1PNPDE20090503_011805_000000542078_00375_37503_8716.N1	03-MAY-2009 01:18:05	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	37503	No
9	GOM_TRA_1PNPDE20090503_012106_000000502078_00375_37503_8717.N1	03-MAY-2009 01:21:06	Straylight	49.500	75	26Eps Sco	2.2910	4250.0	99	37503	No
10	GOM_TRA_1PNPDE20090503_012445_000000522078_00375_37503_8718.N1	03-MAY-2009 01:24:45	Twilight_stray	52.000	16	21Alp Sco	1.0200	3000.0	104	37503	No

11	GOM_TRA_1PNPDE20090503_012654_000000482078_00375_37503_8719.N1	03-MAY-2009 01:26:54	Twilight	48.000	80	7Del Sco	2.3160	30000.	96	37503	No
12	GOM_TRA_1PNPDE20090503_014405_000000472078_00375_37503_8720.N1	03-MAY-2009 01:44:05	Bright	46.500	83		2.3780	11000.	93	37503	No
13	GOM_TRA_1PNPDE20090503_014707_000000402078_00375_37503_8721.N1	03-MAY-2009 01:47:07	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	37503	No
14	GOM_TRA_1PNPDE20090503_015636_000000412078_00375_37503_8722.N1	03-MAY-2009 01:56:36	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	37503	No
15	GOM_TRA_1PNPDE20090503_020703_000000362078_00375_37503_8723.N1	03-MAY-2009 02:07:03	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	37503	No
16	GOM_TRA_1PNPDE20090503_021838_000000352078_00375_37503_8878.N1	03-MAY-2009 02:18:38	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	37503	No
17	GOM_TRA_1PNPDE20090503_023008_000000452078_00375_37503_8879.N1	03-MAY-2009 02:30:08	Dark	44.500	162	34Alp Aqr	2.9440	5350.0	89	37503	No
18	GOM_TRA_1PNPDE20090503_023556_000000482078_00375_37503_8880.N1	03-MAY-2009 02:35:56	Dark	47.500	142	49Del Cap	2.8500	8900.0	95	37503	No
19	GOM_TRA_1PNPDE20090503_025655_000000502078_00376_37504_8881.N1	03-MAY-2009 02:56:55	Straylight	49.500	40	The Sco	1.8590	7100.0	99	37504	No
20	GOM_TRA_1PNPDE20090503_025842_000000542078_00376_37504_8882.N1	03-MAY-2009 02:58:42	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	37504	No
21	GOM_TRA_1PNPDE20090503_030143_000000502078_00376_37504_8883.N1	03-MAY-2009 03:01:43	Straylight	49.500	75	26Eps Sco	2.2910	4250.0	99	37504	No
22	GOM_TRA_1PNPDE20090503_030521_000000532078_00376_37504_8884.N1	03-MAY-2009 03:05:21	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	37504	No
23	GOM_TRA_1PNPDE20090503_030730_000000492078_00376_37504_8885.N1	03-MAY-2009 03:07:30	Twilight	48.500	80	7Del Sco	2.3160	30000.	97	37504	No
24	GOM_TRA_1PNPDE20090503_032440_000000442078_00376_37504_8886.N1	03-MAY-2009 03:24:40	Bright	44.000	83		2.3780	11000.	88	37504	No
25	GOM_TRA_1PNPDE20090503_032742_000000492078_00376_37504_8887.N1	03-MAY-2009 03:27:42	Bright	49.000	180	27Gam Boo	3.0400	8000.0	98	37504	No
26	GOM_TRA_1PNPDE20090503_033712_000000432078_00376_37504_8888.N1	03-MAY-2009 03:37:12	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	37504	No
27	GOM_TRA_1PNPDE20090503_034739_000000372078_00376_37504_9061.N1	03-MAY-2009 03:47:39	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37504	No
28	GOM_TRA_1PNPDE20090503_035914_000000352078_00376_37504_9062.N1	03-MAY-2009 03:59:14	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	37504	No
29	GOM_TRA_1PNPDE20090503_041045_000000452078_00376_37504_9063.N1	03-MAY-2009 04:10:45	Dark	44.500	162	34Alp Aqr	2.9440	5350.0	89	37504	No
30	GOM_TRA_1PNPDE20090503_041632_000000482078_00376_37504_9064.N1	03-MAY-2009 04:16:32	Dark	48.000	142	49Del Cap	2.8500	8900.0	96	37504	No
31	GOM_TRA_1PNPDE20090503_043732_000000492078_00377_37505_9065.N1	03-MAY-2009 04:37:32	Straylight	49.000	40	The Sco	1.8590	7100.0	98	37505	No
32	GOM_TRA_1PNPDE20090503_043919_000000542078_00377_37505_9066.N1	03-MAY-2009 04:39:19	Straylight	53.500	25	35Lam Sco	1.6200	28000.	107	37505	No
33	GOM_TRA_1PNPDE20090503_044219_000000502078_00377_37505_9067.N1	03-MAY-2009 04:42:19	Straylight	49.500	75	26Eps Sco	2.2910	4250.0	99	37505	No
34	GOM_TRA_1PNPDE20090503_044558_000000522078_00377_37505_9068.N1	03-MAY-2009 04:45:58	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	37505	No
35	GOM_TRA_1PNPDE20090503_044806_000000482078_00377_37505_9069.N1	03-MAY-2009 04:48:06	Twilight	48.000	80	7Del Sco	2.3160	30000.	96	37505	No
36	GOM_TRA_1PNPDE20090503_050516_000000472078_00377_37505_9070.N1	03-MAY-2009 05:05:16	Bright	47.000	83		2.3780	11000.	94	37505	No
37	GOM_TRA_1PNPDE20090503_050818_000000422078_00377_37505_9071.N1	03-MAY-2009 05:08:18	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	37505	No
38	GOM_TRA_1PNPDE20090503_051747_000000432078_00377_37505_9072.N1	03-MAY-2009 05:17:47	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	37505	No
39	GOM_TRA_1PNPDE20090503_052815_000000372078_00377_37505_9242.N1	03-MAY-2009 05:28:15	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37505	No
40	GOM_TRA_1PNPDE20090503_053950_000000352078_00377_37505_9243.N1	03-MAY-2009 05:39:50	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	37505	No
41	GOM_TRA_1PNPDE20090503_055122_000000452078_00377_37505_9244.N1	03-MAY-2009 05:51:22	Dark	45.000	162	34Alp Aqr	2.9440	5350.0	90	37505	No
42	GOM_TRA_1PNPDE20090503_055710_000000482078_00377_37505_9245.N1	03-MAY-2009 05:57:10	Dark	47.500	142	49Del Cap	2.8500	8900.0	95	37505	No
43	GOM_TRA_1PNPDE20090503_061808_000000492078_00378_37506_9246.N1	03-MAY-2009 06:18:08	Straylight	49.000	40	The Sco	1.8590	7100.0	98	37506	No
44	GOM_TRA_1PNPDE20090503_061956_000000532078_00378_37506_9247.N1	03-MAY-2009 06:19:56	Straylight	53.000	25	35Lam Sco	1.6200	28000.	106	37506	No
45	GOM_TRA_1PNPDE20090503_062256_000000502078_00378_37506_9248.N1	03-MAY-2009 06:22:56	Straylight	49.500	75	26Eps Sco	2.2910	4250.0	99	37506	No
46	GOM_TRA_1PNPDE20090503_062634_000000522078_00378_37506_9249.N1	03-MAY-2009 06:26:34	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	37506	No
47	GOM_TRA_1PNPDE20090503_062843_000000482078_00378_37506_9250.N1	03-MAY-2009 06:28:43	Twilight	48.000	80	7Del Sco	2.3160	30000.	96	37506	No
48	GOM_TRA_1PNPDE20090503_064551_000000462078_00378_37506_9251.N1	03-MAY-2009 06:45:51	Bright	46.000	83		2.3780	11000.	92	37506	No
49	GOM_TRA_1PNPDE20090503_064854_000000402078_00378_37506_9252.N1	03-MAY-2009 06:48:54	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	37506	No
50	GOM_TRA_1PNPDE20090503_065823_000000412078_00378_37506_9253.N1	03-MAY-2009 06:58:23	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	37506	No

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



#### 4. Overview of dark signal processing per product

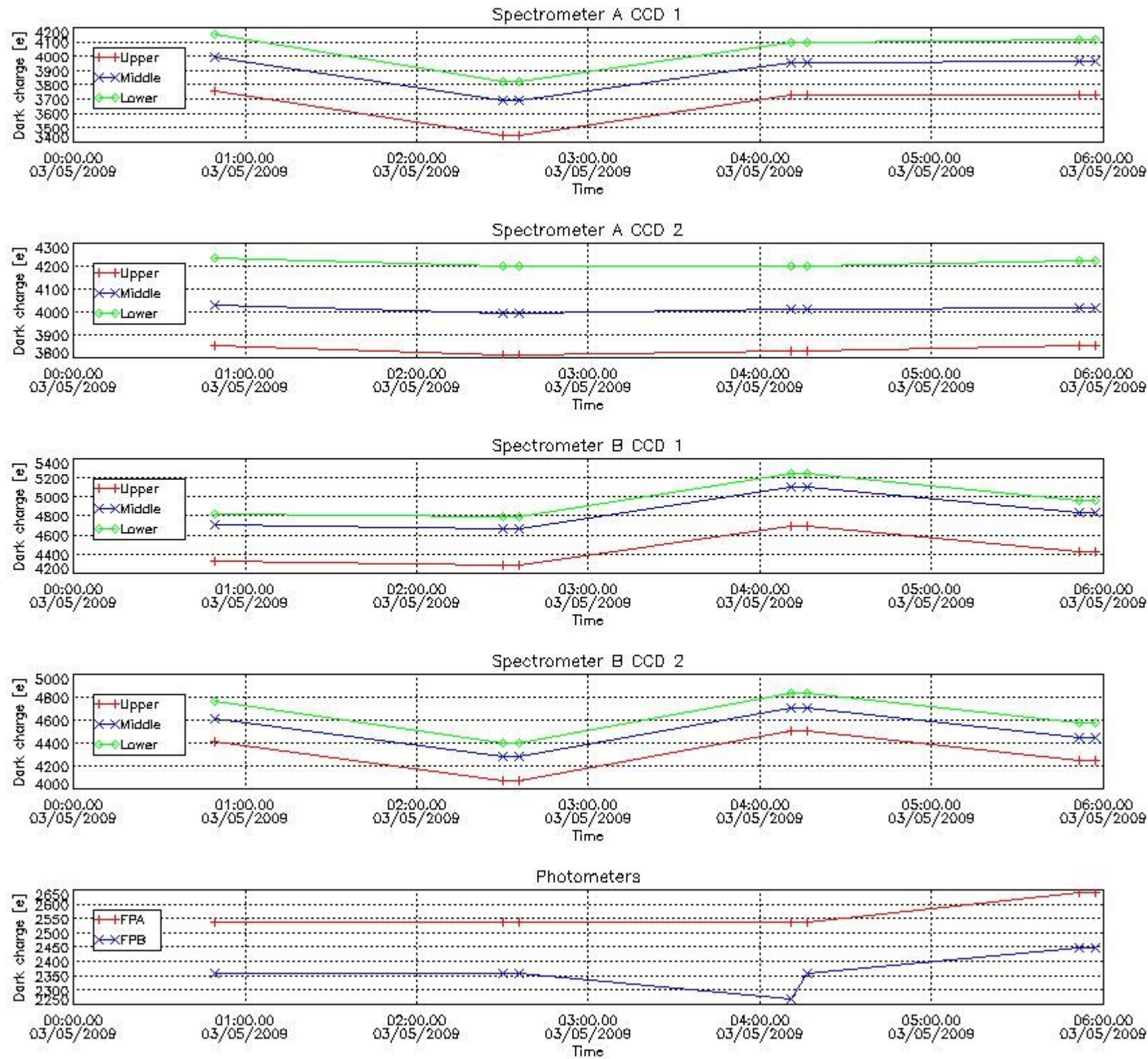
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090503_021838_000000352078_00375_37503_8878.N1	DC map used
GOM_TRA_1PNPDE20090503_023008_000000452078_00375_37503_8879.N1	DC map used
GOM_TRA_1PNPDE20090503_023556_000000482078_00375_37503_8880.N1	DC map used
GOM_TRA_1PNPDE20090503_025655_000000502078_00376_37504_8881.N1	DC map used
GOM_TRA_1PNPDE20090503_025842_000000542078_00376_37504_8882.N1	DC map used
GOM_TRA_1PNPDE20090503_030143_000000502078_00376_37504_8883.N1	DC map used
GOM_TRA_1PNPDE20090503_030521_000000532078_00376_37504_8884.N1	DC map used
GOM_TRA_1PNPDE20090503_030730_000000492078_00376_37504_8885.N1	DC map used
GOM_TRA_1PNPDE20090503_032440_000000442078_00376_37504_8886.N1	DC map used
GOM_TRA_1PNPDE20090503_032742_000000492078_00376_37504_8887.N1	DC map used
GOM_TRA_1PNPDE20090503_033712_000000432078_00376_37504_8888.N1	DC map used

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



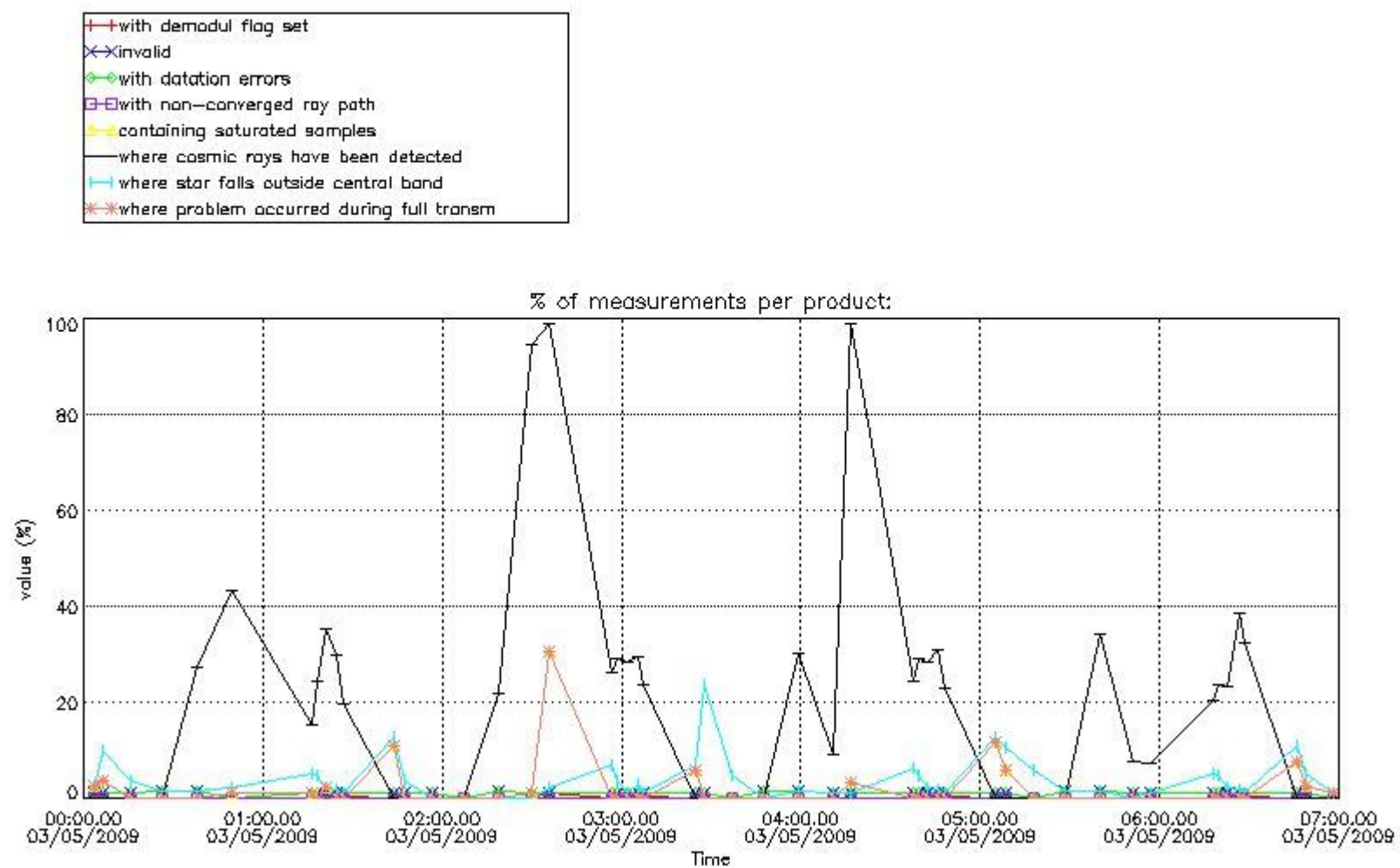
## 5. Demodulation flag and quality information monitoring

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

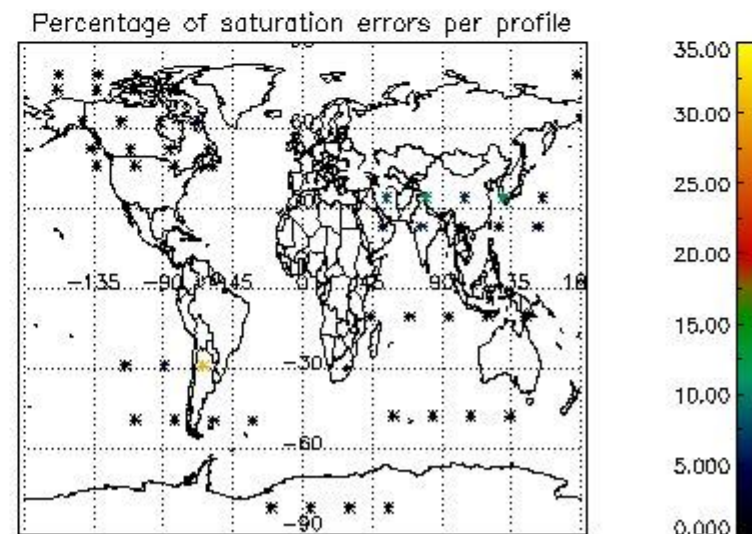
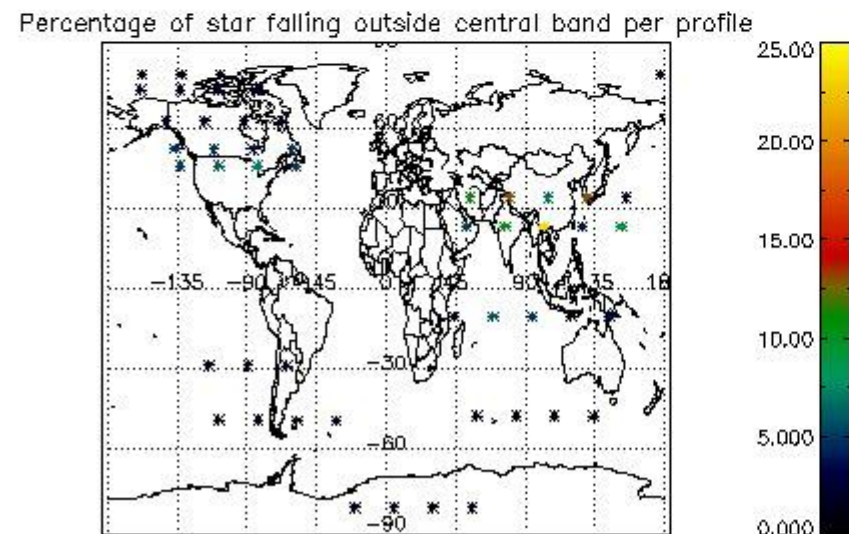
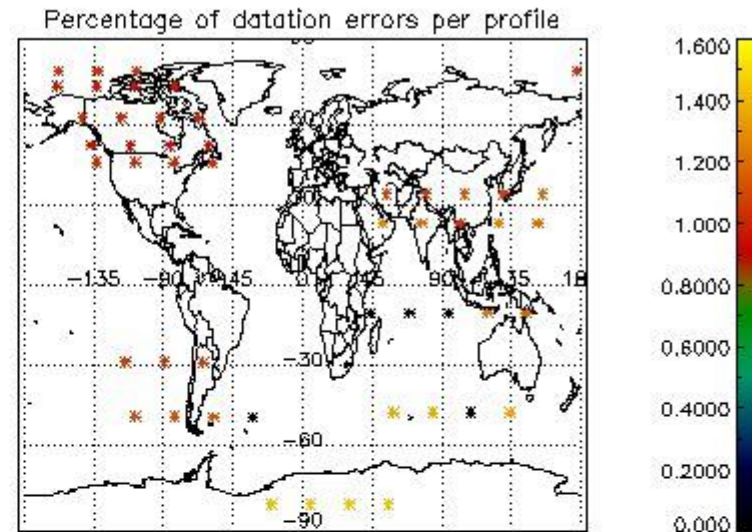
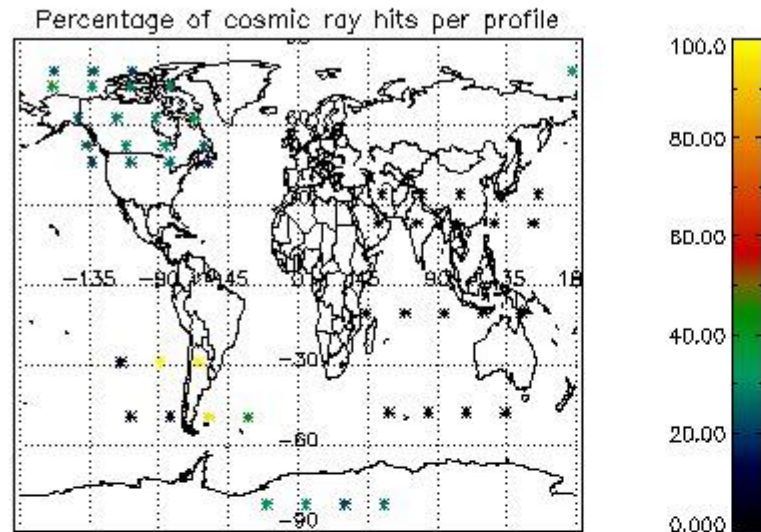
### 5.1 Percentage of products during reporting period with:

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

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)



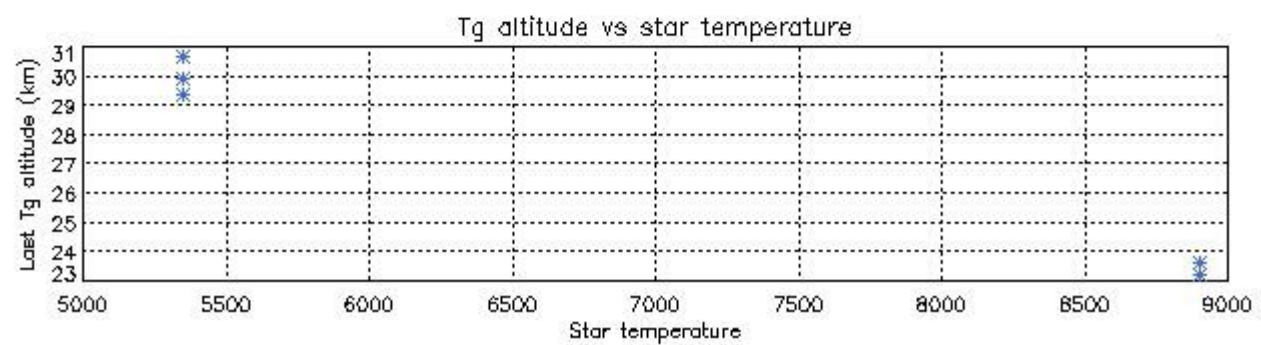
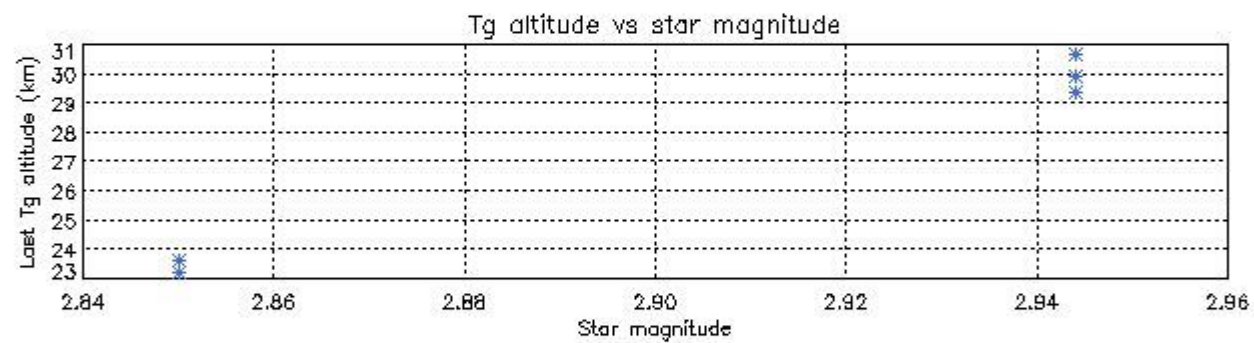
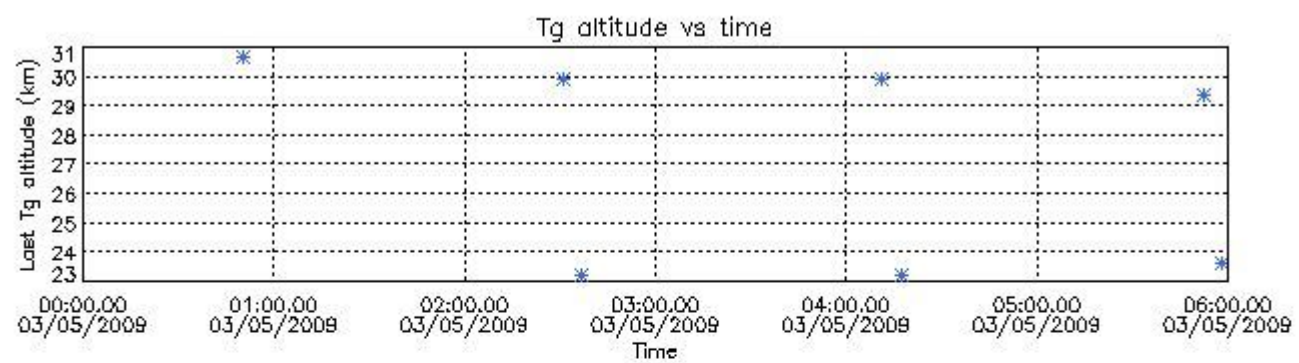
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	27.126	26.011	NaN
St. deviation:	3.5591	8.0731	NaN
Maximum:	30.667	38.650	NaN
Minimum:	23.212	12.562	NaN
Number of data:	7.0000	23.000	NaN

### 6.2 Plot for DARK limb products

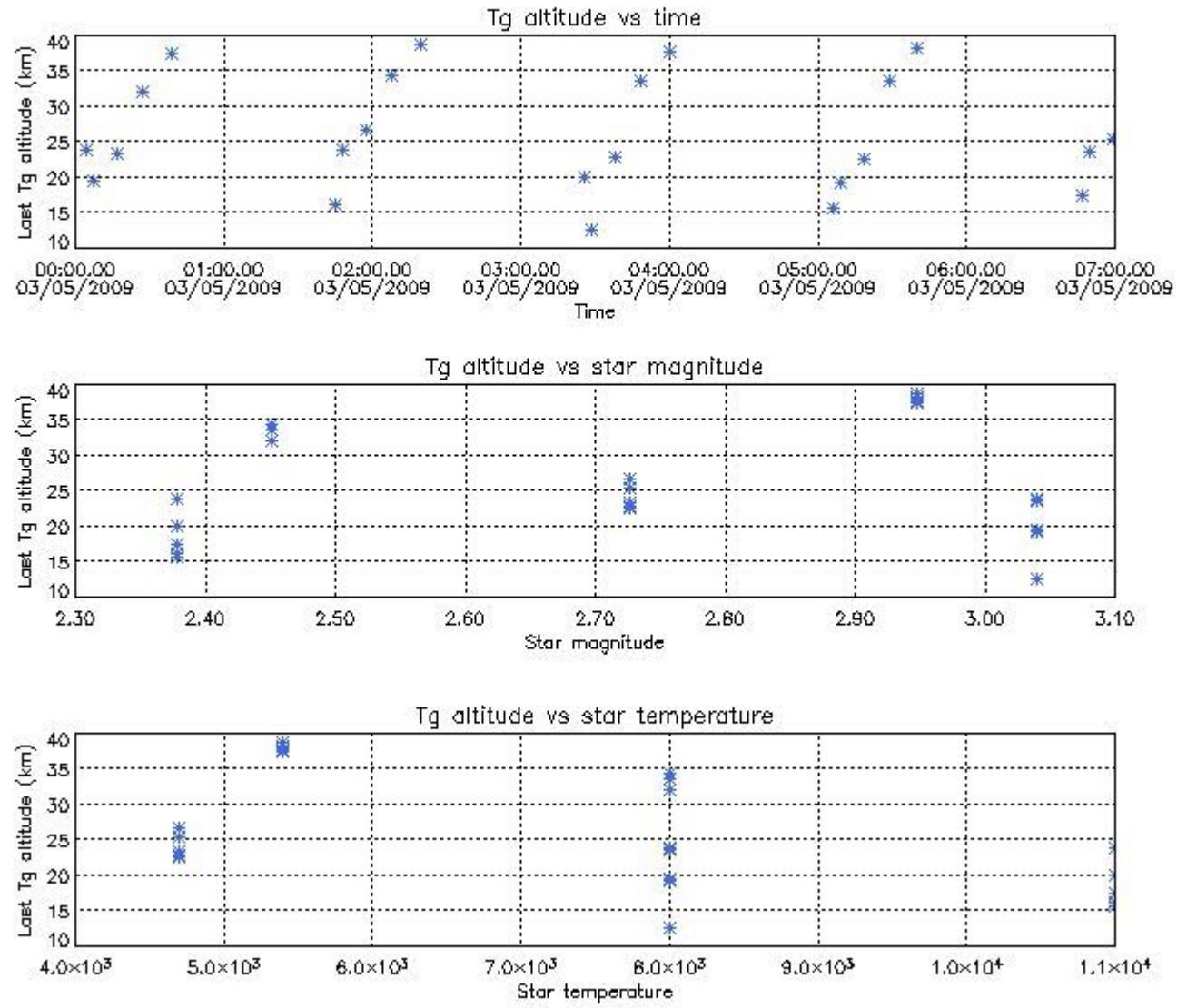
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

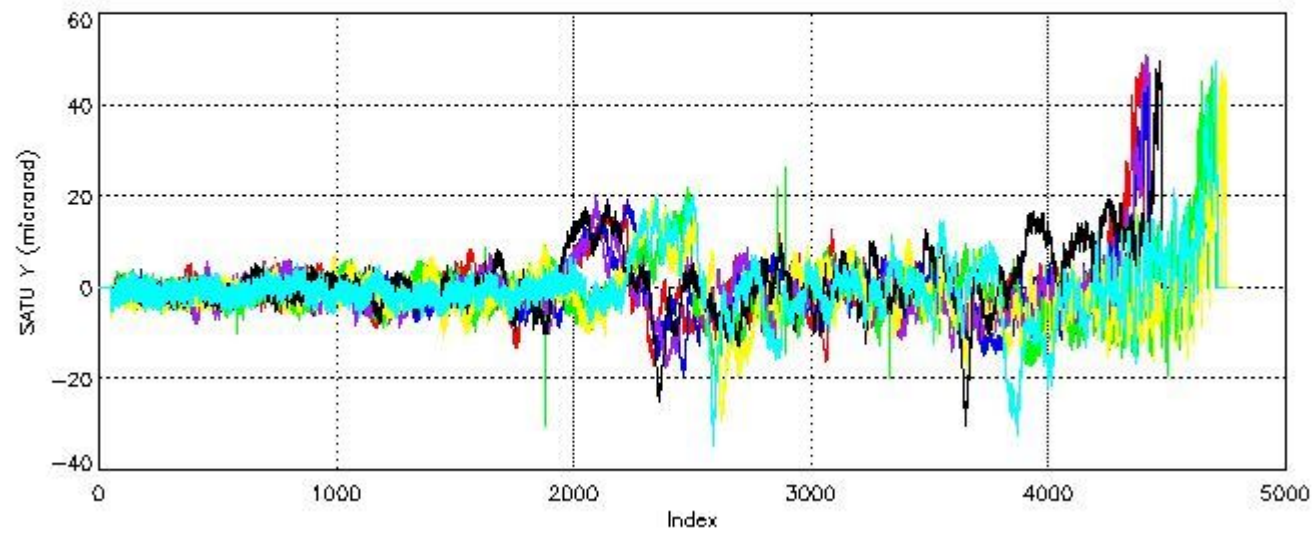
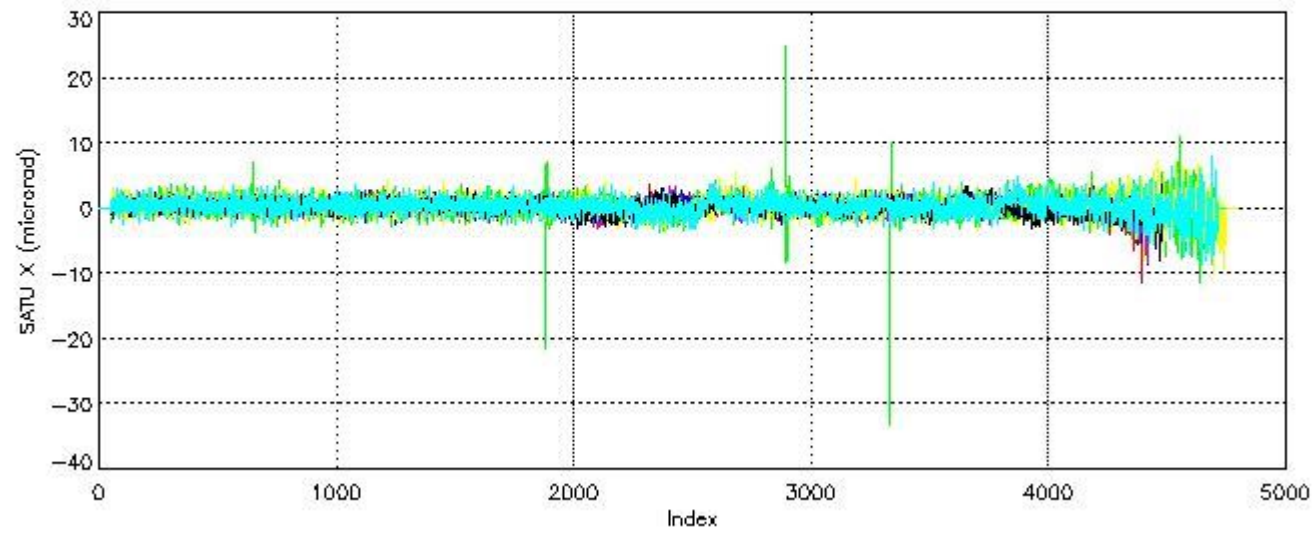


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.36087	-0.77669	0.32936	-1.1626
St. deviation:	0.85924	2.2616	0.90869	2.5825
Maximum:	7.1000	7.1000	5.9000	11.400
Minimum:	-3.7000	-10.200	-4.8000	-15.700

Number of data:	8400.0	8400.0	23200.	23200.
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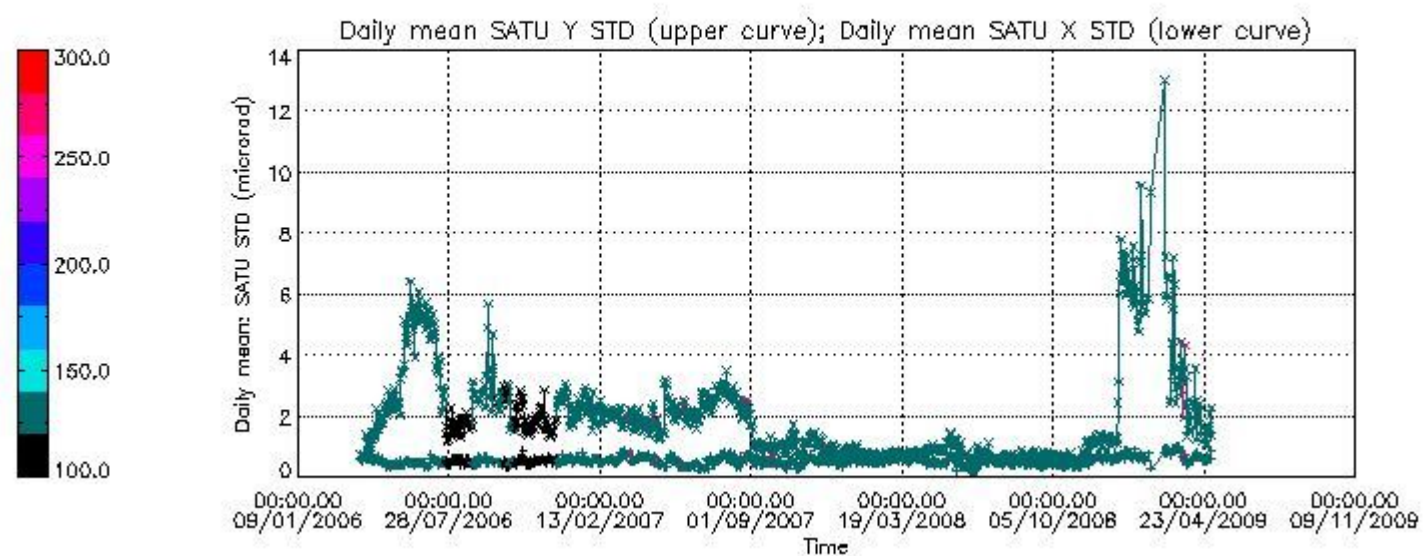
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

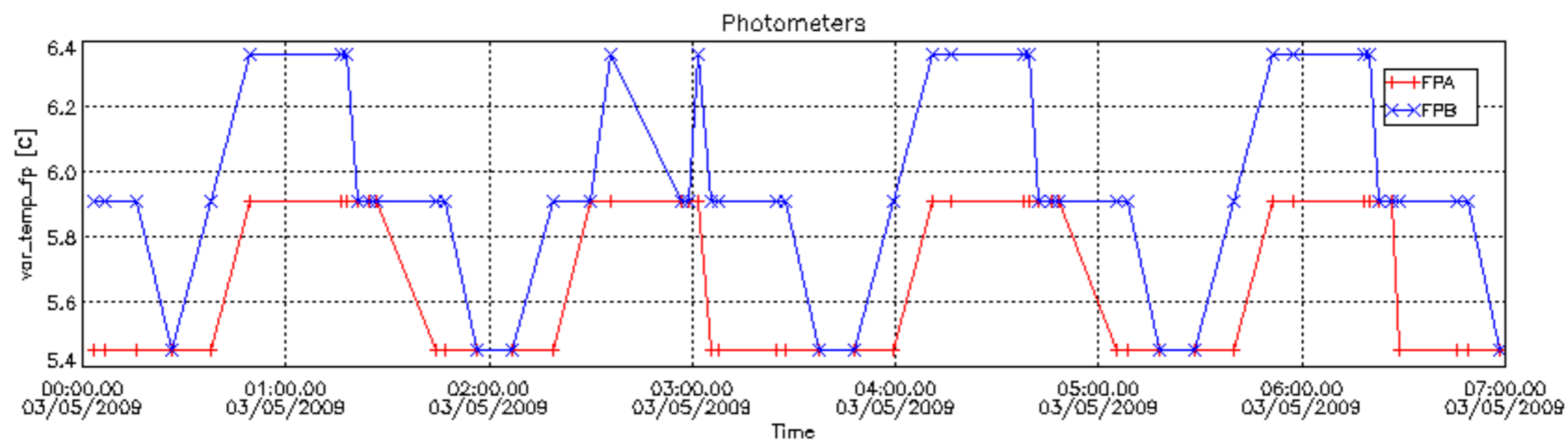
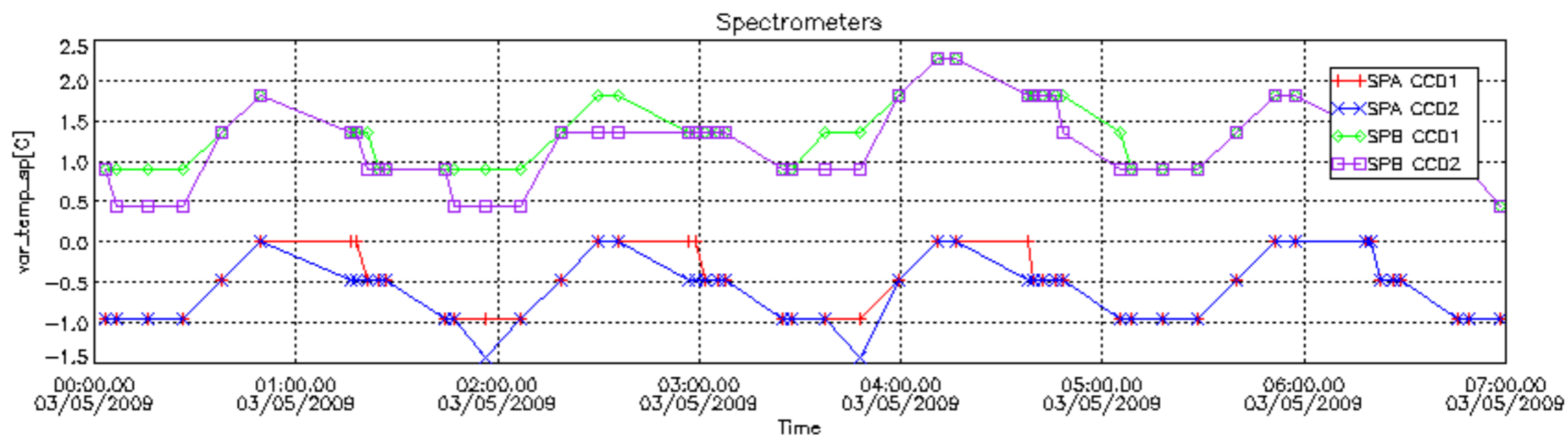


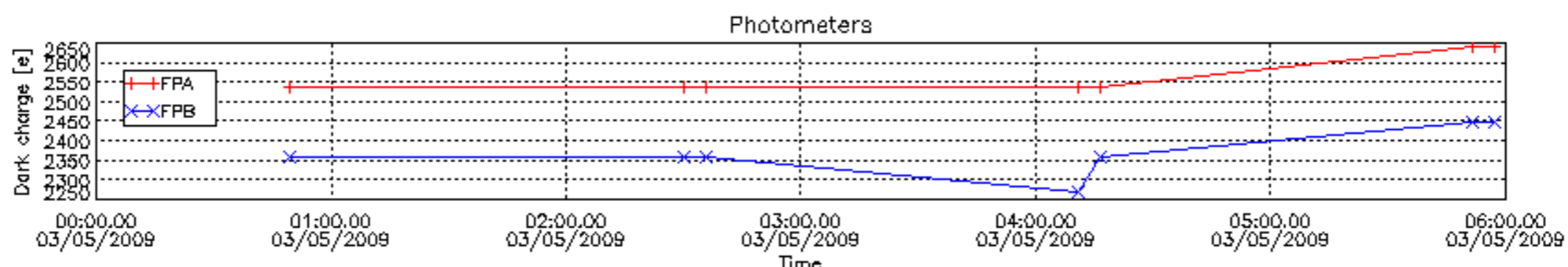
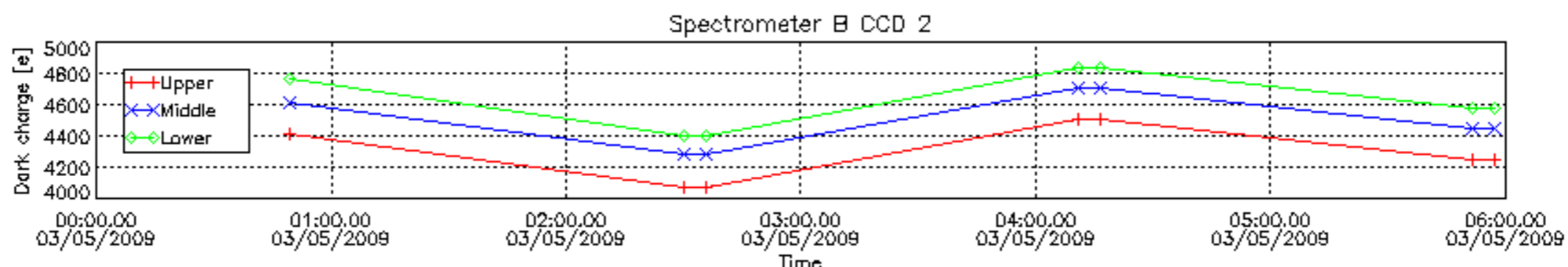
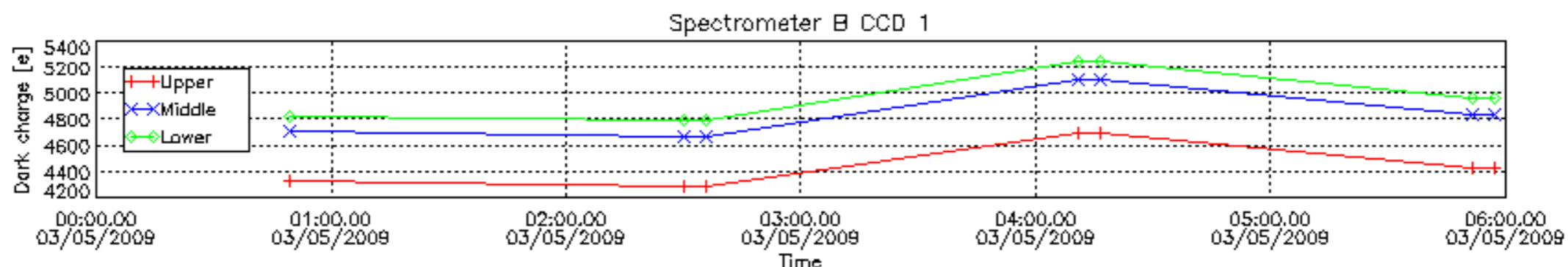
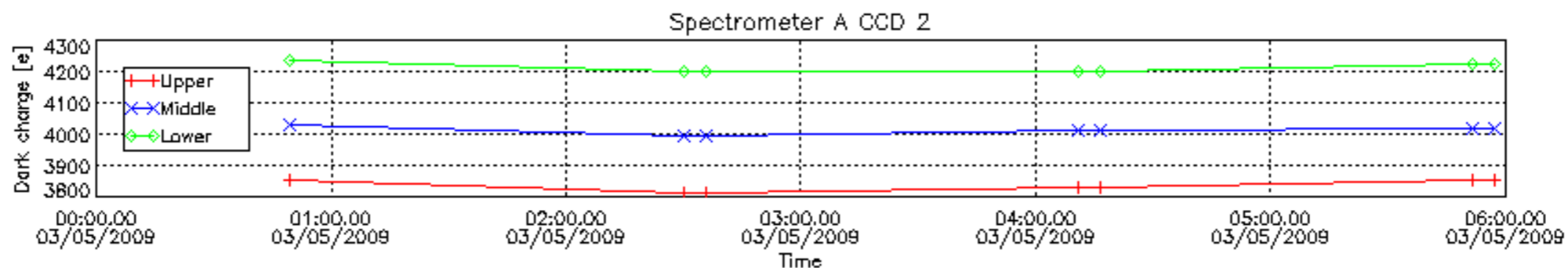
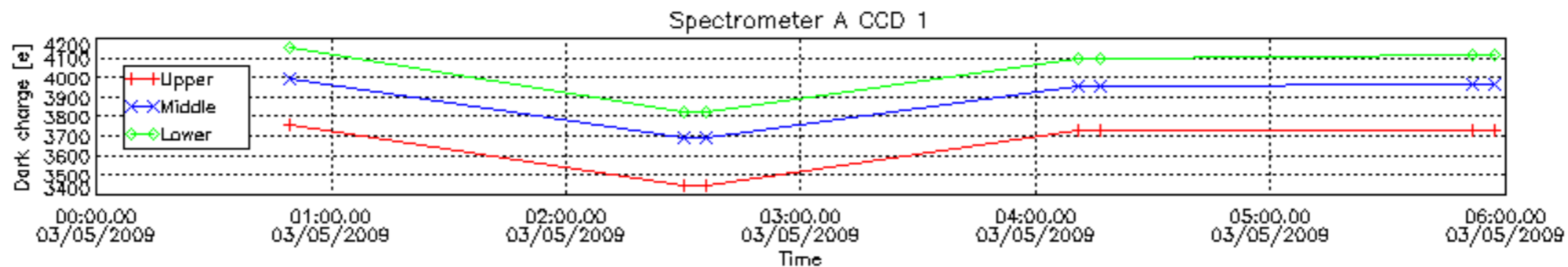
### 8. Auxiliary Data Files used for the production reported in section 2.4

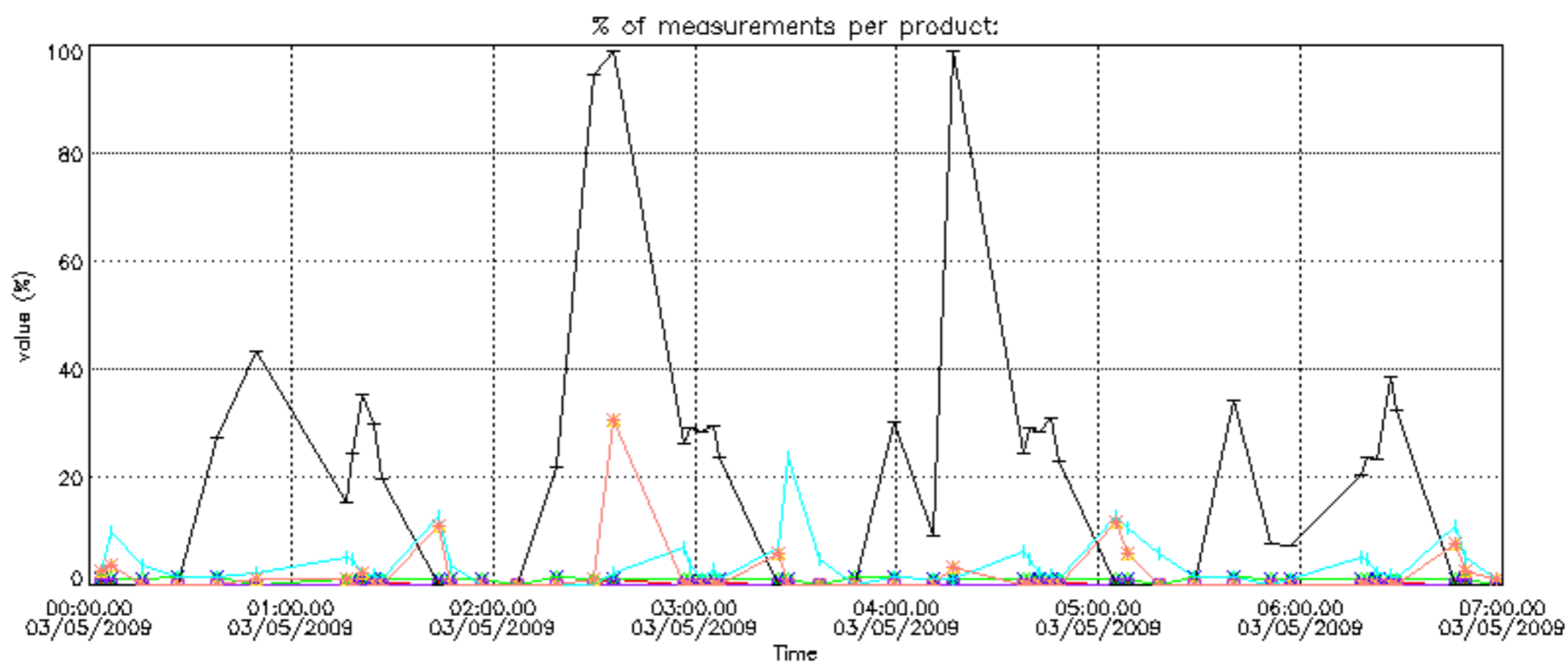
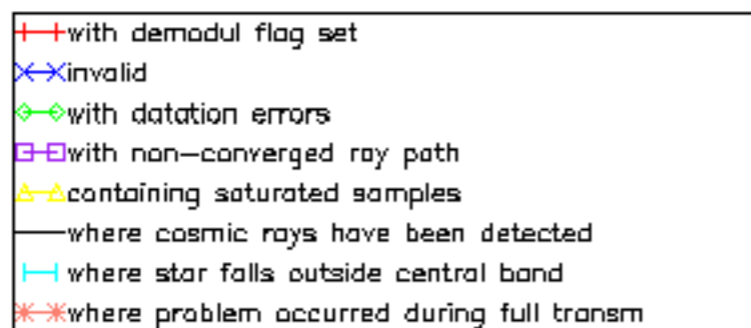
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-MAY-2009 00:03:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090430_144945_20090428_000000_20100101_000000	1	03-MAY-2009 00:03:30
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-MAY-2009 00:03:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-MAY-2009 00:03:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-MAY-2009 00:03:30
ECMWF_FILE	AUX_ECF_AXNECM20090502_064112_20090502_210000_20090503_090000	1	03-MAY-2009 00:03:30
ECMWF_FILE	AUX_ECF_AXNECM20090502_184112_20090503_030000_20090503_150000	27	03-MAY-2009 03:47:39
OPTIONAL_ECMWF_FILE	MISSING	1	03-MAY-2009 00:03:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090502_212317_000060572078_00372_37500_7865.N1	1	03-MAY-2009 00:03:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090502_230933_000057382078_00373_37501_7866.N1	7	03-MAY-2009 01:16:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090503_005030_000041442078_00374_37502_7867.N1	16	03-MAY-2009 02:18:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090503_020453_000054192078_00375_37503_7868.N1	27	03-MAY-2009 03:47:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090503_034031_000057382078_00376_37504_7869.N1	39	03-MAY-2009 05:28:15

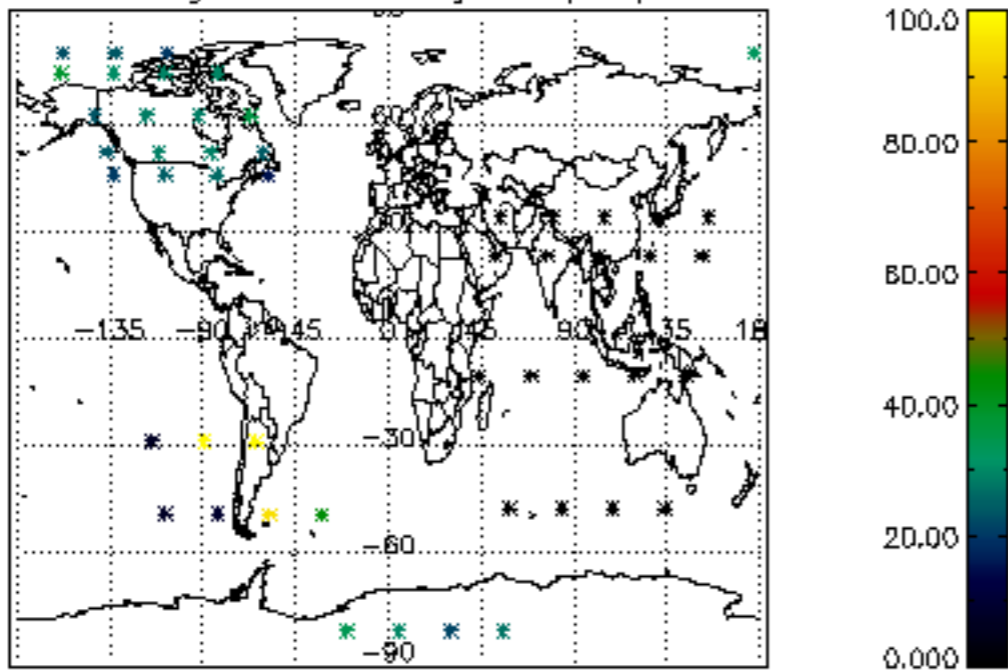




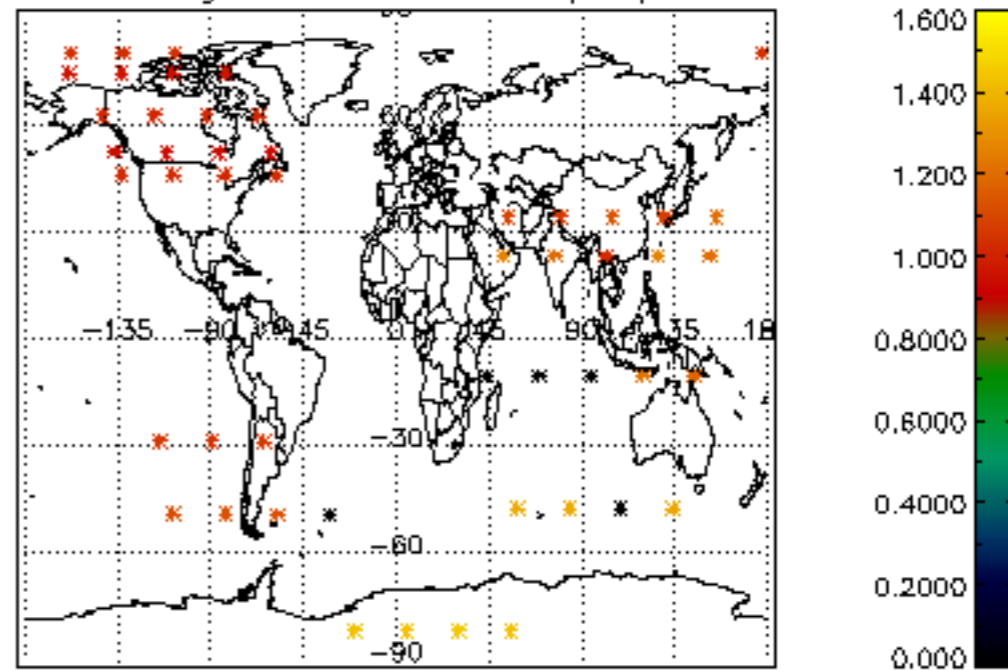




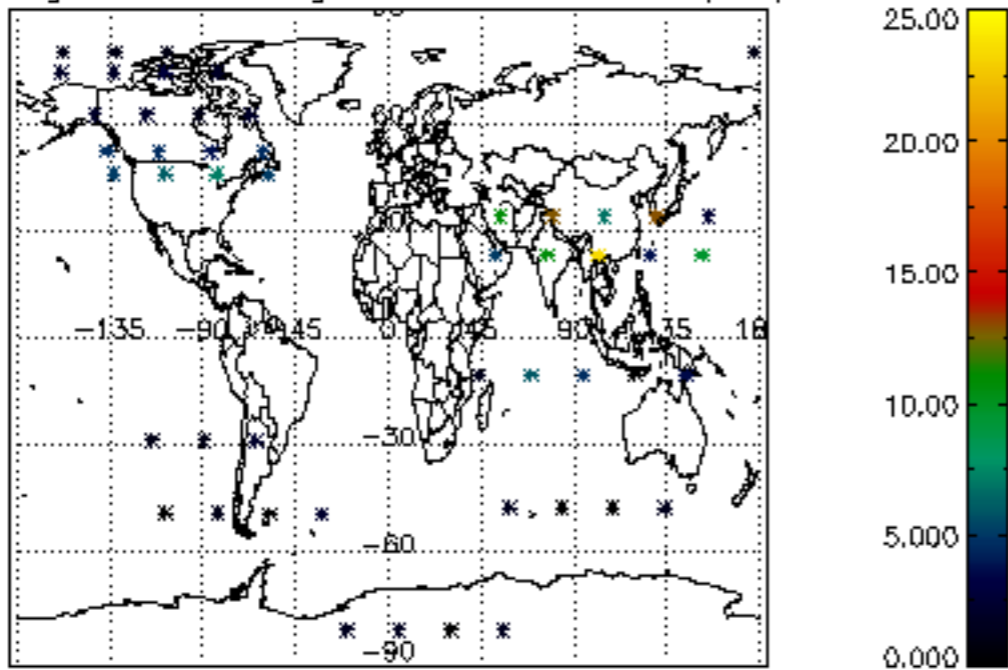
Percentage of cosmic ray hits per profile



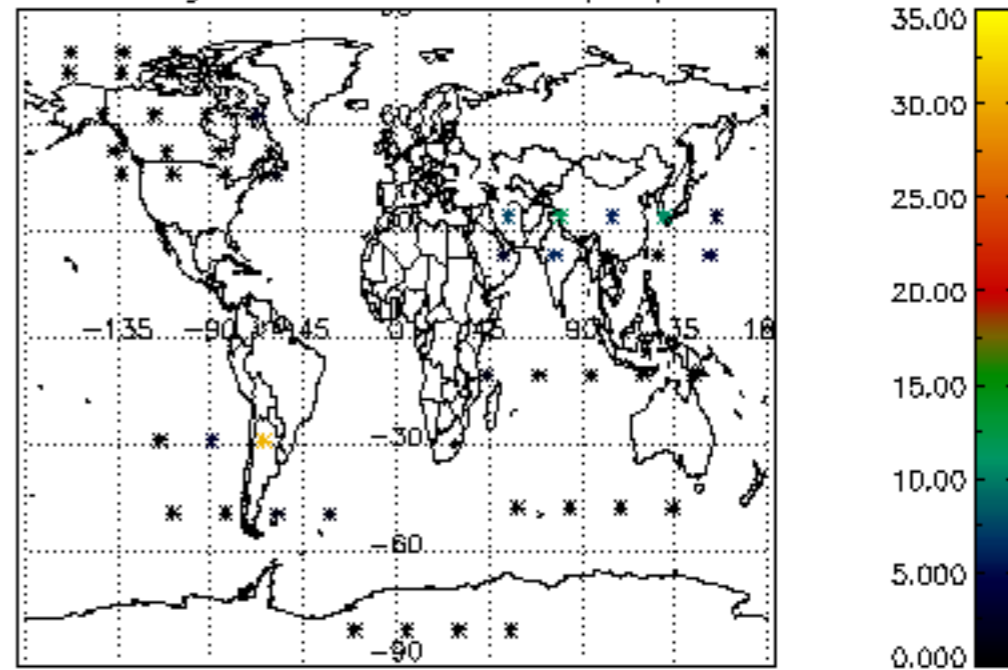
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

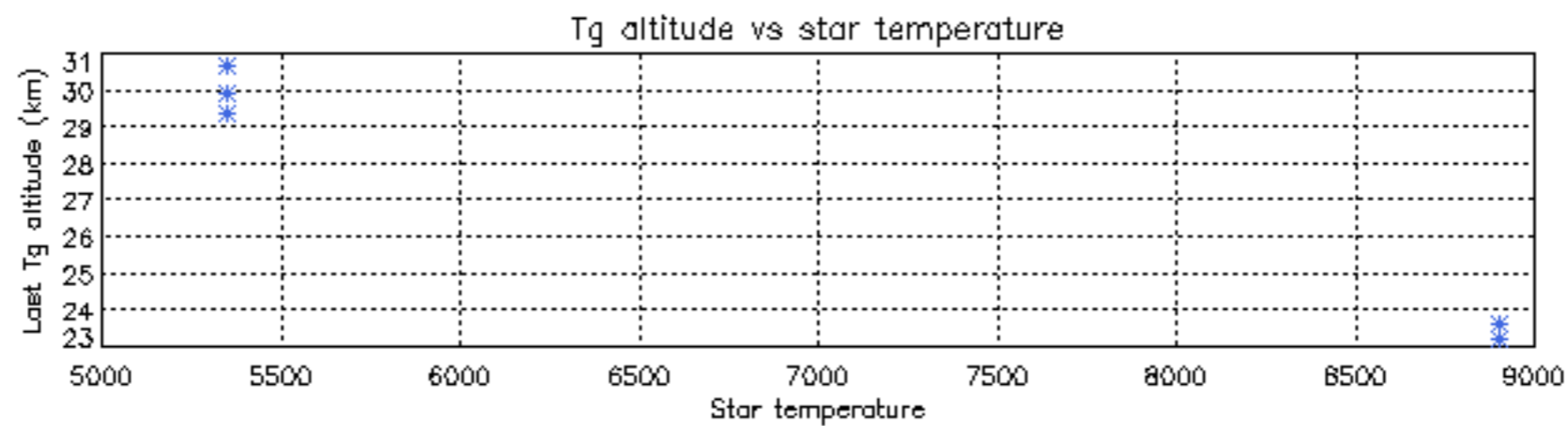
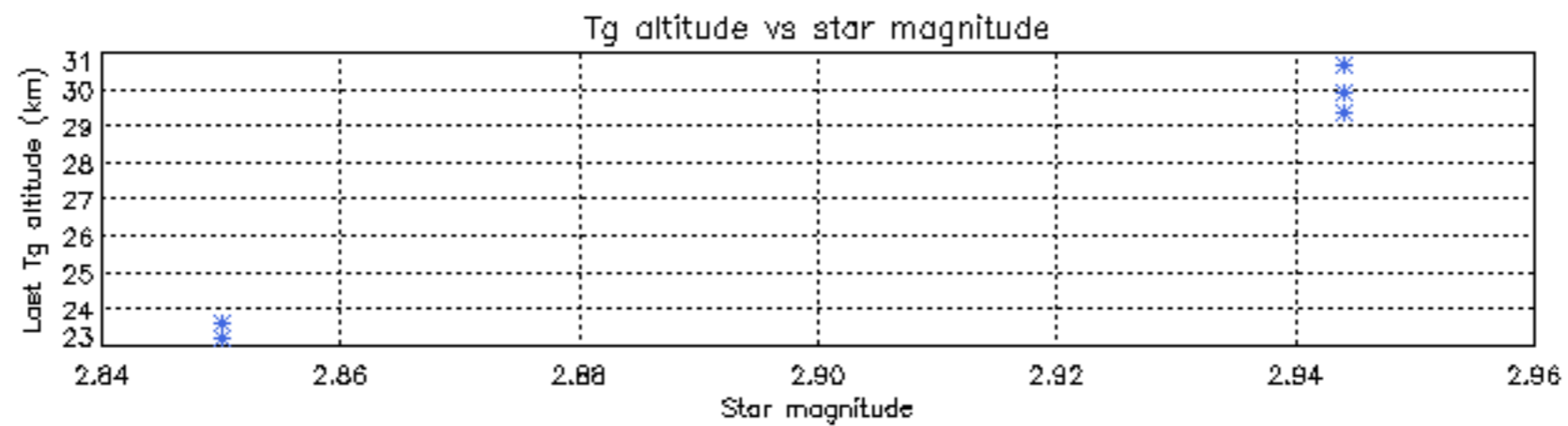
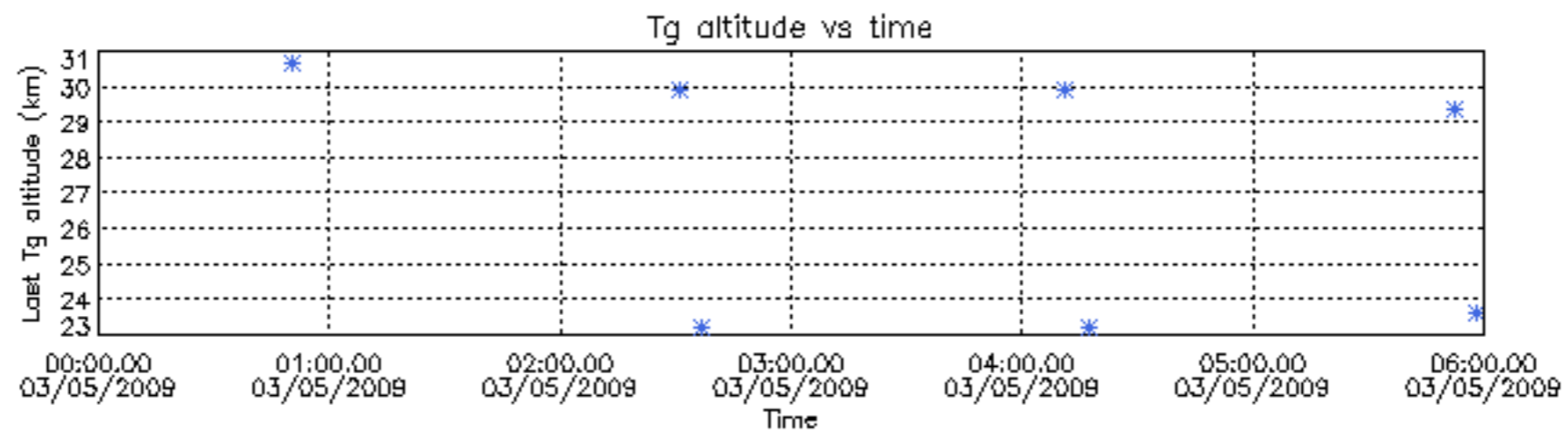


Percentage of saturation errors per profile

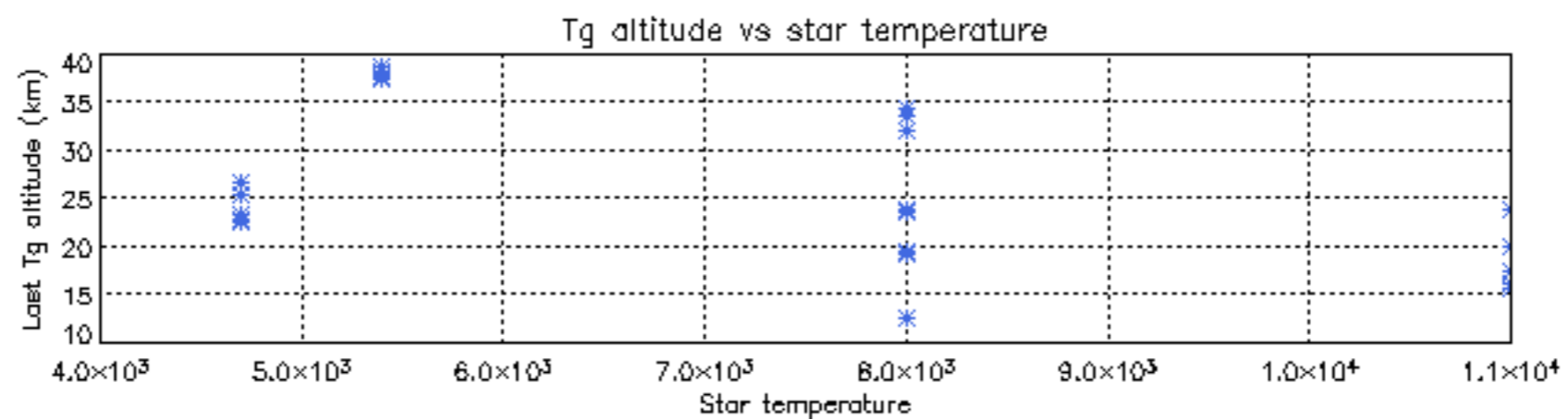
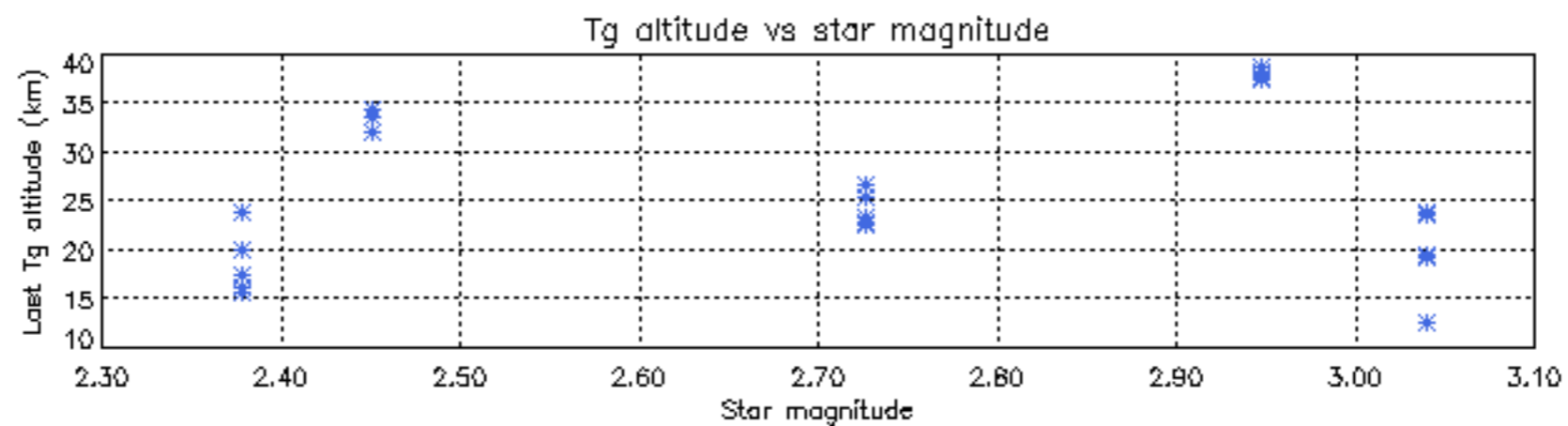
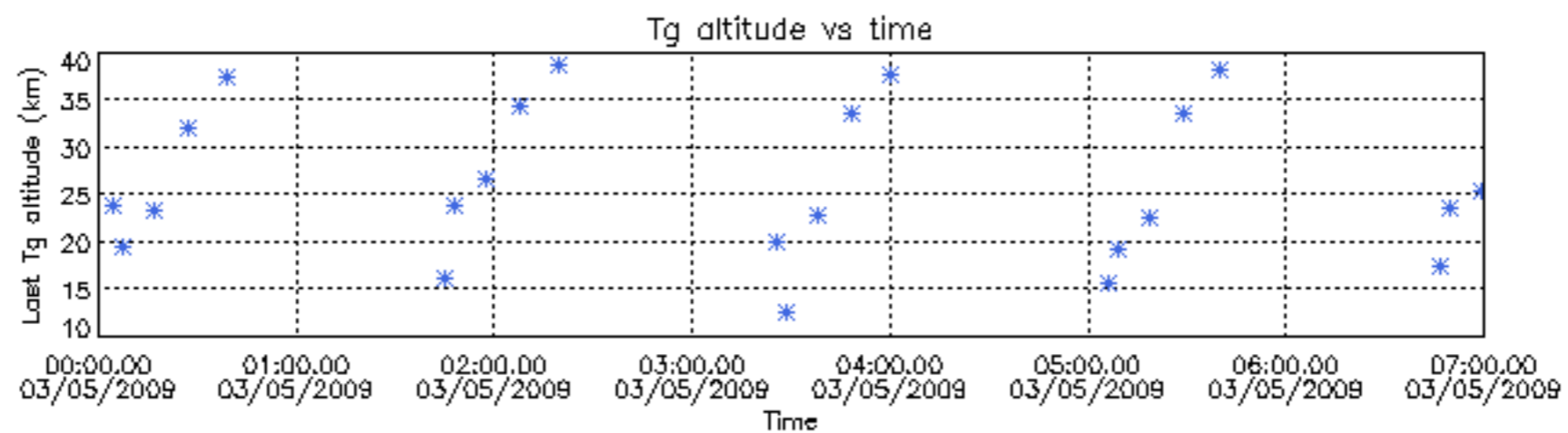


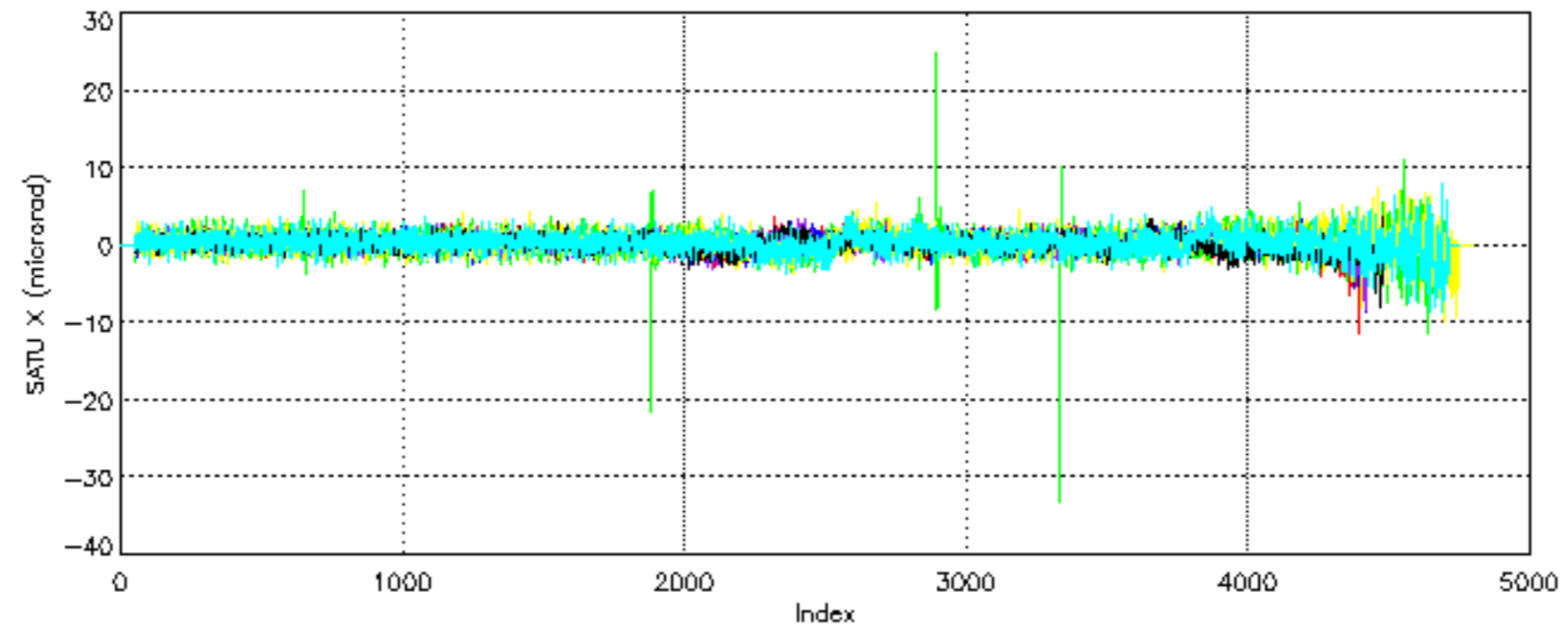


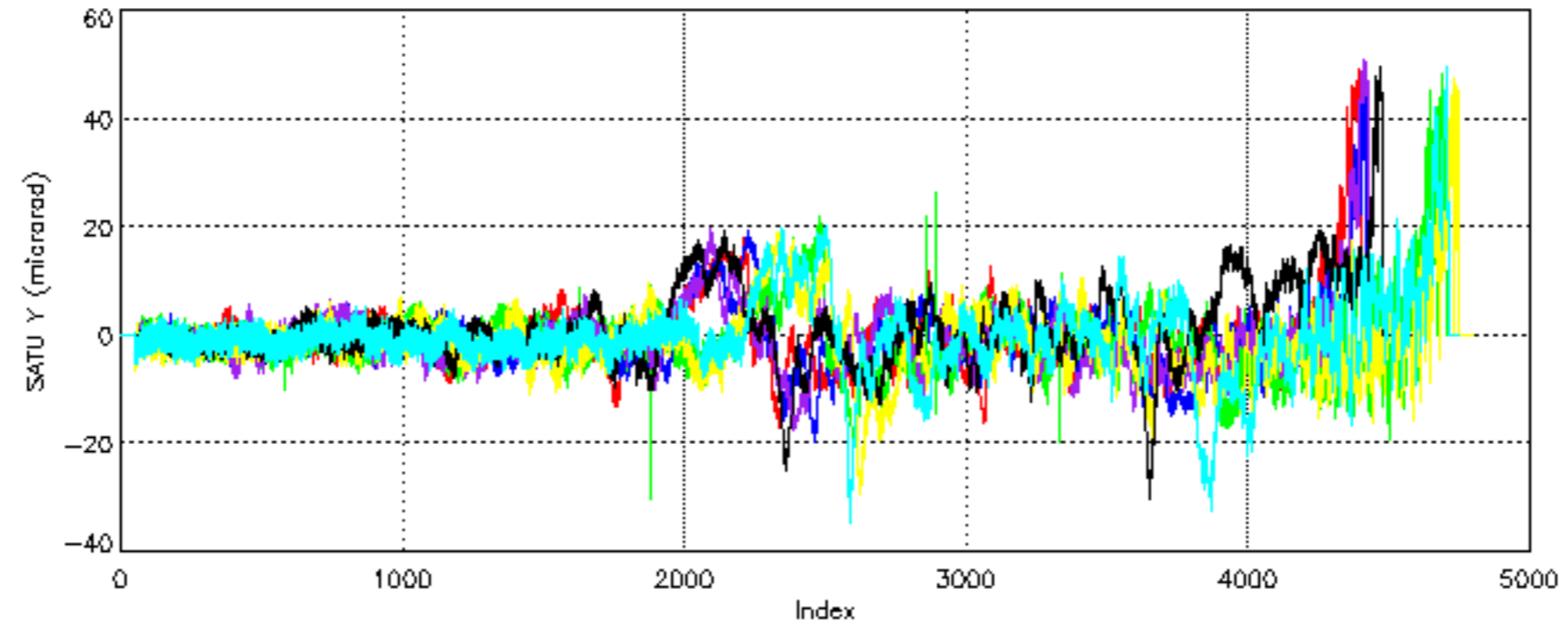
Tangent altitude at which the star is lost

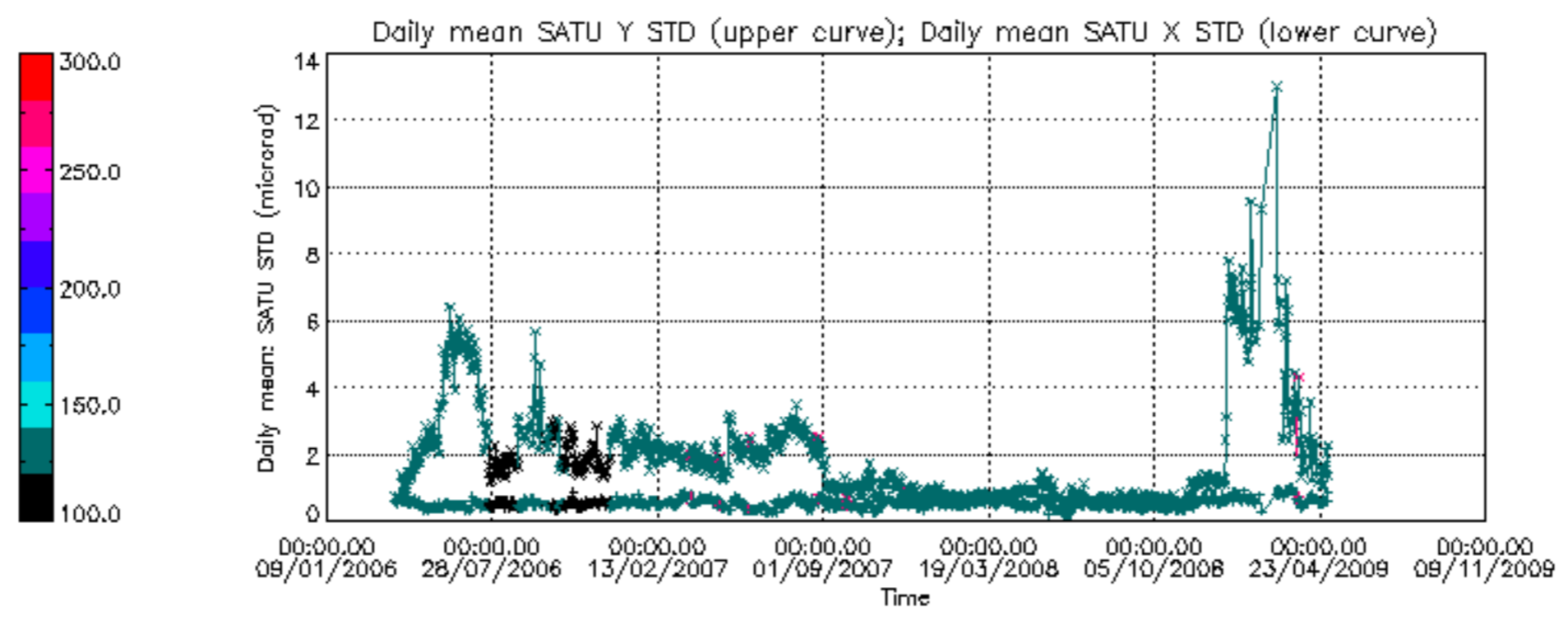


Tangent altitude at which the star is lost









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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  
 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  
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 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  
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 10; 1267.9; 01-MAY-2009 05:48:58; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37477  
 11; 1401.8; 01-MAY-2009 05:51:12; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37477  
 12; 1591.3; 01-MAY-2009 05:54:21; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37477  
 13; 1728.1; 01-MAY-2009 05:56:38; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37477  
 14; 2263.7; 01-MAY-2009 06:05:34; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37477  
 15; 2453.6; 01-MAY-2009 06:08:44; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37477  
 16; 2634.5; 01-MAY-2009 06:11:45; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37477

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2; 1050.0; 01-MAY-2009 20:50:44; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;37486
3; 1272.3; 01-MAY-2009 20:54:26; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37486
4; 1404.7; 01-MAY-2009 20:56:38; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37486
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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
11; 3824.5; 01-MAY-2009 21:36:58; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37486
12; 4511.0; 01-MAY-2009 21:48:25; Dark ; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;37486
13; 5044.1; 01-MAY-2009 21:57:18; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;37486
14; 5189.4; 01-MAY-2009 21:59:43; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;37486
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2; -617.2; 01-MAY-2009 22:03:32; Dark ; 54.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 109; 0;37486
3; -461.7; 01-MAY-2009 22:06:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37486
4; 760.0; 01-MAY-2009 22:26:29; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;37487
5; 866.0; 01-MAY-2009 22:28:15; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37487
6; 1050.2; 01-MAY-2009 22:31:20; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37487
7; 1272.9; 01-MAY-2009 22:35:02; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37487
8; 1405.0; 01-MAY-2009 22:37:14; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37487
9; 1592.3; 01-MAY-2009 22:40:22; Bright; 41.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 82; 0;37487
10; 1727.9; 01-MAY-2009 22:42:37; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37487
11; 2260.8; 01-MAY-2009 22:51:30; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37487
12; 2448.5; 01-MAY-2009 22:54:38; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37487
13; 2629.7; 01-MAY-2009 22:57:39; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37487
14; 3201.4; 01-MAY-2009 23:07:11; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37487
15; 3824.1; 01-MAY-2009 23:17:34; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37487
16; 4511.0; 01-MAY-2009 23:29:00; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37487
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4; 867.0; 02-MAY-2009 00:08:52; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;37488
5; 1050.8; 02-MAY-2009 00:11:56; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;37488
6; 1273.3; 02-MAY-2009 00:15:39; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37488
7; 1405.3; 02-MAY-2009 00:17:51; Dark ; 50.0; 80; 7Del Sco ; 2.32; 30000;occ; 100; 0;37488
8; 1592.5; 02-MAY-2009 00:20:58; Bright; 41.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 82; 0;37488
9; 1727.7; 02-MAY-2009 00:23:13; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;37488
10; 2260.5; 02-MAY-2009 00:32:06; Bright; 59.0; 3; 16Alp Boo ; -0.05; 4250;occ; 118; 0;37488
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3; 2444.5; 02-MAY-2009 13:59:57; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;37496
4; 2626.1; 02-MAY-2009 14:02:59; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37496
5; 3196.3; 02-MAY-2009 14:12:29; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;37496
6; 3821.4; 02-MAY-2009 14:22:54; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37496
7; 4512.7; 02-MAY-2009 14:34:25; Dark ; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;37496
8; 5197.8; 02-MAY-2009 14:45:51; Dark ; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;37496
9; 5432.0; 02-MAY-2009 14:49:45; Dark ; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;37496
10; 5543.6; 02-MAY-2009 14:51:36; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;37496
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3; -403.8; 05-MAY-2009 03:14:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37532
4; 798.7; 05-MAY-2009 03:34:41; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37533
5; 907.5; 05-MAY-2009 03:36:30; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37533
6; 1081.0; 05-MAY-2009 03:39:23; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37533
7; 1293.7; 05-MAY-2009 03:42:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37533
8; 1417.5; 05-MAY-2009 03:45:00; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37533
9; 1726.6; 05-MAY-2009 03:50:09; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37533
10; 2427.7; 05-MAY-2009 04:01:50; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37533
11; 2528.5; 05-MAY-2009 04:03:31; Bright; 48.0; 67; 5Alp CrB ; 2.22; 11000;occ; 96; 0;37533
12; 2611.4; 05-MAY-2009 04:04:54; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37533
13; 3174.0; 05-MAY-2009 04:14:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37533
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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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2; -388.9; 05-MAY-2009 21:41:29; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37543  
3; 807.6; 05-MAY-2009 22:01:25; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37544  
4; 917.3; 05-MAY-2009 22:03:15; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37544  
5; 1087.9; 05-MAY-2009 22:06:06; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37544  
6; 1298.7; 05-MAY-2009 22:09:36; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37544  
7; 1420.7; 05-MAY-2009 22:11:38; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37544  
8; 1725.8; 05-MAY-2009 22:16:43; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37544  
9; 2423.3; 05-MAY-2009 22:28:21; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37544  
10; 2607.6; 05-MAY-2009 22:31:25; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37544  
11; 3167.4; 05-MAY-2009 22:40:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37544  
12; 3805.8; 05-MAY-2009 22:51:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37544  
13; 4549.9; 05-MAY-2009 23:03:48; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37544  
14; 4798.6; 05-MAY-2009 23:07:56; Dark ; 34.0; 90; 54Alp Peg ; 2.49; 11000;occ; 68; 0;37544

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

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

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

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

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2; 1725.6; 05-MAY-2009 15:34:19; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37540
3; 2424.6; 05-MAY-2009 15:45:58; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37540
4; 2608.5; 05-MAY-2009 15:49:02; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37540
5; 3170.6; 05-MAY-2009 15:58:24; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37540
6; 3806.9; 05-MAY-2009 16:09:01; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37540
7; 4549.5; 05-MAY-2009 16:21:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37540
8; 4797.3; 05-MAY-2009 16:25:31; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37540
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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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3; 3146.4; 08-MAY-2009 14:23:09; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37582
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8; 5283.8; 08-MAY-2009 16:39:23; Dark ; 51.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 102; 0;37583
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 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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5; 2981.2; 31-MAY-2009 13:57:26; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;37911
6; 3632.7; 31-MAY-2009 14:08:17; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37911
7; 3934.9; 31-MAY-2009 14:13:20; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;37911
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9; 4850.1; 31-MAY-2009 14:28:35; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37911
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7; 3631.3; 31-MAY-2009 17:29:28; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37913  
8; 3934.6; 31-MAY-2009 17:34:31; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37913  
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11; 5278.3; 31-MAY-2009 17:56:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37913  
12; 5910.2; 31-MAY-2009 18:07:27; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;37913  
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