

# GOMOS Daily Report 02-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 04:52:33
Data source version	GOMOS/5.00
Start time of products	02MAY2009 00:07:06
Stop time of products	02MAY2009 05:10:43
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)

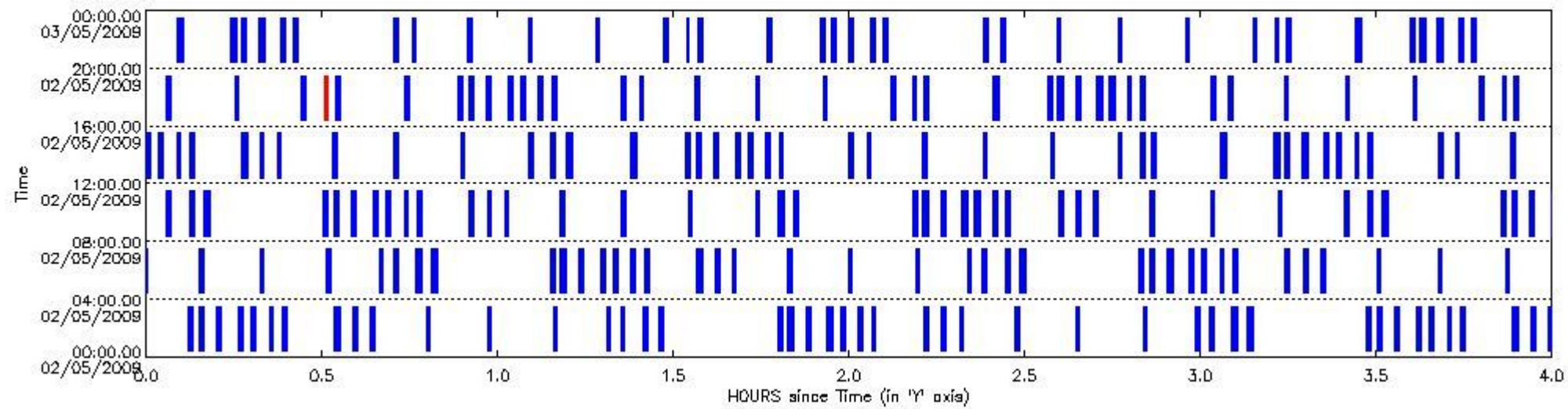
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

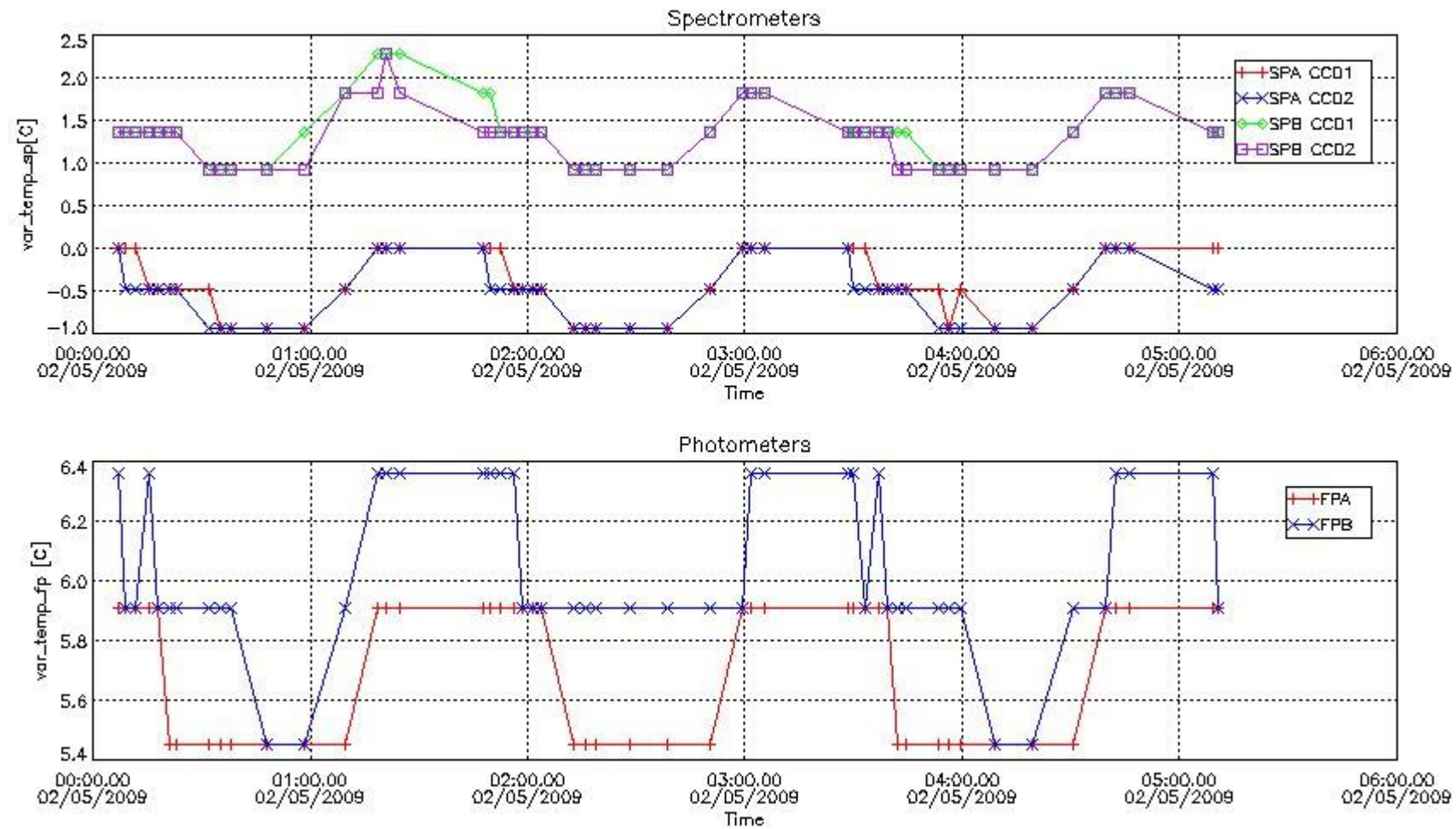
UTC start time	Star name	Star ID	Orbit
02-MAY-2009 16:30:22	22BetAqr	154	37497

### 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_1PNPDE20090502_000706_000000502078_00360_37488_7328.N1	02-MAY-2009 00:07:06	Straylight	50.000	40	The Sco	1.8590	7100.0	100	37488	No
2	GOM_TRA_1PNPDE20090502_000852_000000552078_00360_37488_7329.N1	02-MAY-2009 00:08:52	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	37488	No
3	GOM_TRA_1PNPDE20090502_001156_000000522078_00360_37488_7330.N1	02-MAY-2009 00:11:56	Straylight	51.500	75	26Eps Sco	2.2910	4250.0	103	37488	No
4	GOM_TRA_1PNPDE20090502_001539_000000542078_00360_37488_7331.N1	02-MAY-2009 00:15:39	Twilight_stray	54.000	16	21Alp Sco	1.0200	3000.0	108	37488	No
5	GOM_TRA_1PNPDE20090502_001751_000000502078_00360_37488_7332.N1	02-MAY-2009 00:17:51	Twilight_stray	50.000	80	7Del Sco	2.3160	30000.	100	37488	No
6	GOM_TRA_1PNPDE20090502_002058_000000412078_00360_37488_7333.N1	02-MAY-2009 00:20:58	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	37488	No
7	GOM_TRA_1PNPDE20090502_002313_000000462078_00360_37488_7334.N1	02-MAY-2009 00:23:13	Bright	46.000	104	27Bet Lib	2.6140	13100.	92	37488	No
8	GOM_TRA_1PNPDE20090502_003206_000000592078_00360_37488_7335.N1	02-MAY-2009 00:32:06	Bright	59.000	3	16Alp Boo	-0.050000	4250.0	118	37488	No
9	GOM_TRA_1PNPDE20090502_003513_000000462078_00360_37488_7336.N1	02-MAY-2009 00:35:13	Bright	46.000	83		2.3780	11000.	92	37488	No
10	GOM_TRA_1PNPDE20090502_003815_000000382078_00360_37488_7337.N1	02-MAY-2009 00:38:15	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	37488	No

11	GOM_TRA_1PNPDE20090502_004746_000000432078_00360_37488_7338.N1	02-MAY-2009 00:47:46	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	37488	No
12	GOM_TRA_1PNPDE20090502_005809_000000372078_00360_37488_7339.N1	02-MAY-2009 00:58:09	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37488	No
13	GOM_TRA_1PNPDE20090502_010936_000000352078_00360_37488_7340.N1	02-MAY-2009 01:09:36	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	37488	No
14	GOM_TRA_1PNPDE20090502_011831_000000402078_00360_37488_7341.N1	02-MAY-2009 01:18:31	Dark	40.000	61	8Eps Peg	2.1000	3900.0	80	37488	No
15	GOM_TRA_1PNPDE20090502_012056_000000442078_00360_37488_7342.N1	02-MAY-2009 01:20:56	Dark	43.500	162	34Alp Aqr	2.9440	5350.0	87	37488	No
16	GOM_TRA_1PNPDE20090502_012447_000000552078_00360_37488_7460.N1	02-MAY-2009 01:24:47	Dark	54.500	154	22Bet Aqr	2.8990	5700.0	109	37488	No
17	GOM_TRA_1PNPDE20090502_014743_000000502078_00361_37489_7461.N1	02-MAY-2009 01:47:43	Straylight	50.000	40	The Sco	1.8590	7100.0	100	37489	No
18	GOM_TRA_1PNPDE20090502_014929_000000552078_00361_37489_7462.N1	02-MAY-2009 01:49:29	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	37489	No
19	GOM_TRA_1PNPDE20090502_015233_000000522078_00361_37489_7463.N1	02-MAY-2009 01:52:33	Straylight	51.500	75	26Eps Sco	2.2910	4250.0	103	37489	No
20	GOM_TRA_1PNPDE20090502_015615_000000542078_00361_37489_7464.N1	02-MAY-2009 01:56:15	Tw_i_and_stray	53.500	16	21Alp Sco	1.0200	3000.0	107	37489	No
21	GOM_TRA_1PNPDE20090502_015827_000000502078_00361_37489_7465.N1	02-MAY-2009 01:58:27	Tw_i_and_stray	49.500	80	7Del Sco	2.3160	30000.	99	37489	No
22	GOM_TRA_1PNPDE20090502_020134_000000412078_00361_37489_7466.N1	02-MAY-2009 02:01:34	Bright	40.500	122	9Alp2Lib	2.7470	9700.0	81	37489	No
23	GOM_TRA_1PNPDE20090502_020349_000000472078_00361_37489_7467.N1	02-MAY-2009 02:03:49	Bright	46.500	104	27Bet Lib	2.6140	13100.	93	37489	No
24	GOM_TRA_1PNPDE20090502_021242_000000592078_00361_37489_7468.N1	02-MAY-2009 02:12:42	Bright	59.000	3	16Alp Boo	-0.050000	4250.0	118	37489	No
25	GOM_TRA_1PNPDE20090502_021549_000000422078_00361_37489_7469.N1	02-MAY-2009 02:15:49	Bright	42.000	83		2.3780	11000.	84	37489	No
26	GOM_TRA_1PNPDE20090502_021850_000000422078_00361_37489_7470.N1	02-MAY-2009 02:18:50	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	37489	No
27	GOM_TRA_1PNPDE20090502_022821_000000442078_00361_37489_7471.N1	02-MAY-2009 02:28:21	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	37489	No
28	GOM_TRA_1PNPDE20090502_023845_000000372078_00361_37489_7472.N1	02-MAY-2009 02:38:45	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37489	No
29	GOM_TRA_1PNPDE20090502_025013_000000352078_00361_37489_7643.N1	02-MAY-2009 02:50:13	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	37489	No
30	GOM_TRA_1PNPDE20090502_025908_000000402078_00361_37489_7644.N1	02-MAY-2009 02:59:08	Dark	40.000	61	8Eps Peg	2.1000	3900.0	80	37489	No
31	GOM_TRA_1PNPDE20090502_030133_000000442078_00361_37489_7645.N1	02-MAY-2009 03:01:33	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	37489	No
32	GOM_TRA_1PNPDE20090502_030524_000000552078_00361_37489_7646.N1	02-MAY-2009 03:05:24	Dark	54.500	154	22Bet Aqr	2.8990	5700.0	109	37489	No
33	GOM_TRA_1PNPDE20090502_032820_000000502078_00362_37490_7647.N1	02-MAY-2009 03:28:20	Straylight	50.000	40	The Sco	1.8590	7100.0	100	37490	No
34	GOM_TRA_1PNPDE20090502_033006_000000552078_00362_37490_7648.N1	02-MAY-2009 03:30:06	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	37490	No
35	GOM_TRA_1PNPDE20090502_033309_000000522078_00362_37490_7649.N1	02-MAY-2009 03:33:09	Straylight	51.500	75	26Eps Sco	2.2910	4250.0	103	37490	No
36	GOM_TRA_1PNPDE20090502_033652_000000542078_00362_37490_7650.N1	02-MAY-2009 03:36:52	Tw_i_and_stray	53.500	16	21Alp Sco	1.0200	3000.0	107	37490	No
37	GOM_TRA_1PNPDE20090502_033903_000000502078_00362_37490_7651.N1	02-MAY-2009 03:39:03	Tw_i_and_stray	49.500	80	7Del Sco	2.3160	30000.	99	37490	No
38	GOM_TRA_1PNPDE20090502_034210_000000422078_00362_37490_7652.N1	02-MAY-2009 03:42:10	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	37490	No
39	GOM_TRA_1PNPDE20090502_034425_000000472078_00362_37490_7653.N1	02-MAY-2009 03:44:25	Bright	46.500	104	27Bet Lib	2.6140	13100.	93	37490	No
40	GOM_TRA_1PNPDE20090502_035317_000000592078_00362_37490_7654.N1	02-MAY-2009 03:53:17	Bright	59.000	3	16Alp Boo	-0.050000	4250.0	118	37490	No
41	GOM_TRA_1PNPDE20090502_035624_000000442078_00362_37490_7655.N1	02-MAY-2009 03:56:24	Bright	44.000	83		2.3780	11000.	88	37490	No
42	GOM_TRA_1PNPDE20090502_035926_000000402078_00362_37490_7656.N1	02-MAY-2009 03:59:26	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	37490	No
43	GOM_TRA_1PNPDE20090502_040857_000000452078_00362_37490_7657.N1	02-MAY-2009 04:08:57	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	37490	No
44	GOM_TRA_1PNPDE20090502_041920_000000372078_00362_37490_7801.N1	02-MAY-2009 04:19:20	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37490	No
45	GOM_TRA_1PNPDE20090502_043049_000000352078_00362_37490_7802.N1	02-MAY-2009 04:30:49	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	37490	No
46	GOM_TRA_1PNPDE20090502_043945_000000322078_00362_37490_7803.N1	02-MAY-2009 04:39:45	Dark	32.000	61	8Eps Peg	2.1000	3900.0	64	37490	No
47	GOM_TRA_1PNPDE20090502_044210_000000442078_00362_37490_7804.N1	02-MAY-2009 04:42:10	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	37490	No
48	GOM_TRA_1PNPDE20090502_044601_000000552078_00362_37490_7805.N1	02-MAY-2009 04:46:01	Dark	55.000	154	22Bet Aqr	2.8990	5700.0	110	37490	No
49	GOM_TRA_1PNPDE20090502_050857_000000512078_00363_37491_7806.N1	02-MAY-2009 05:08:57	Straylight	50.500	40	The Sco	1.8590	7100.0	101	37491	No
50	GOM_TRA_1PNPDE20090502_051043_000000562078_00363_37491_7807.N1	02-MAY-2009 05:10:43	Straylight	55.500	25	35Lam Sco	1.6200	28000.	111	37491	No

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



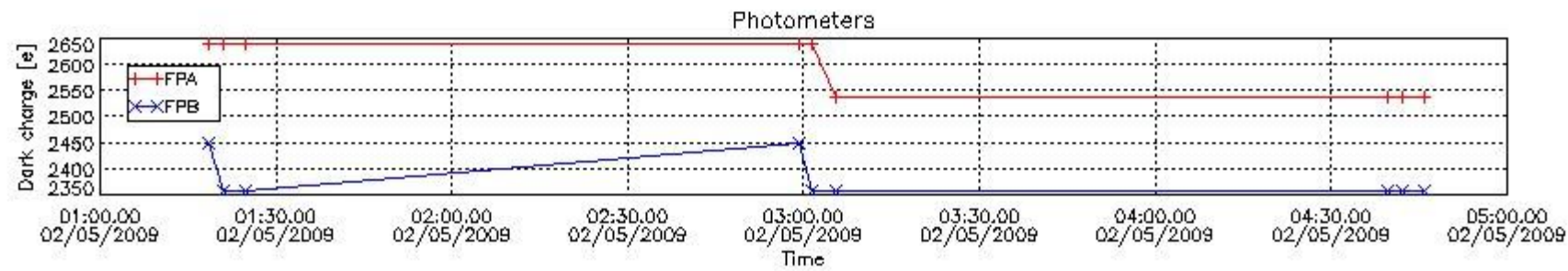
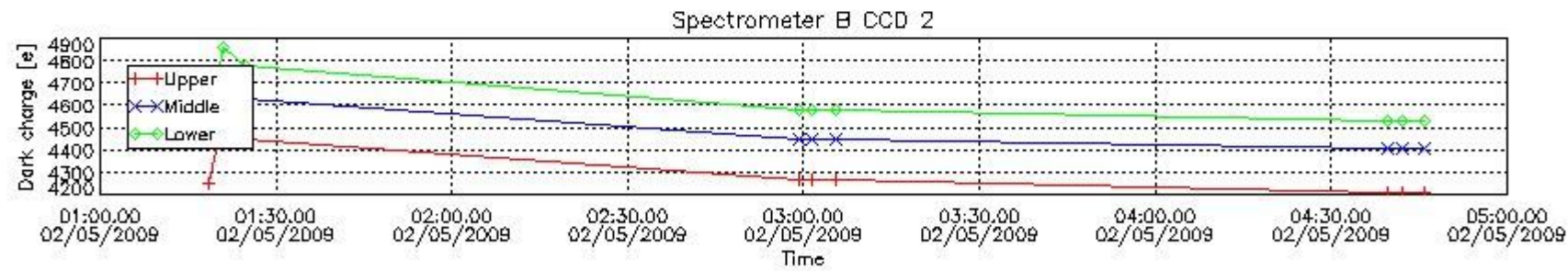
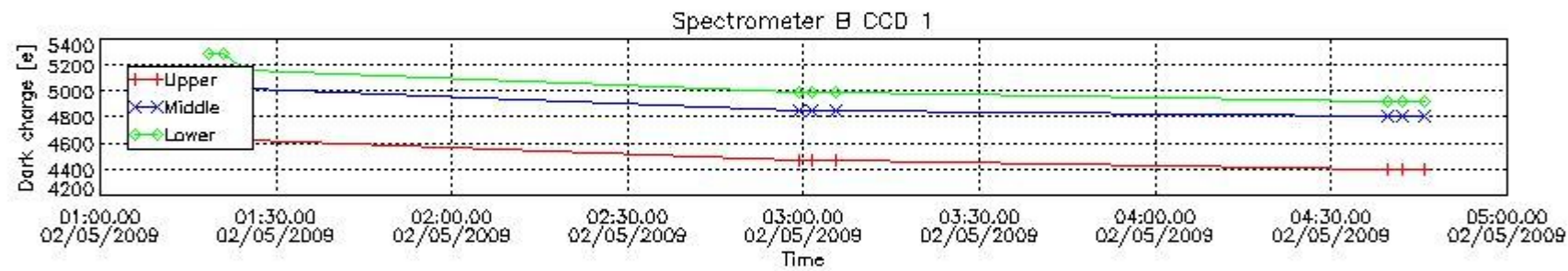
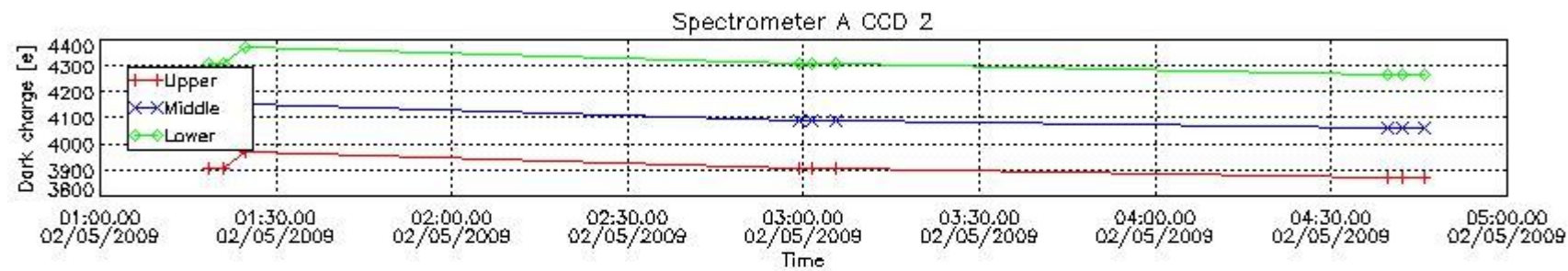
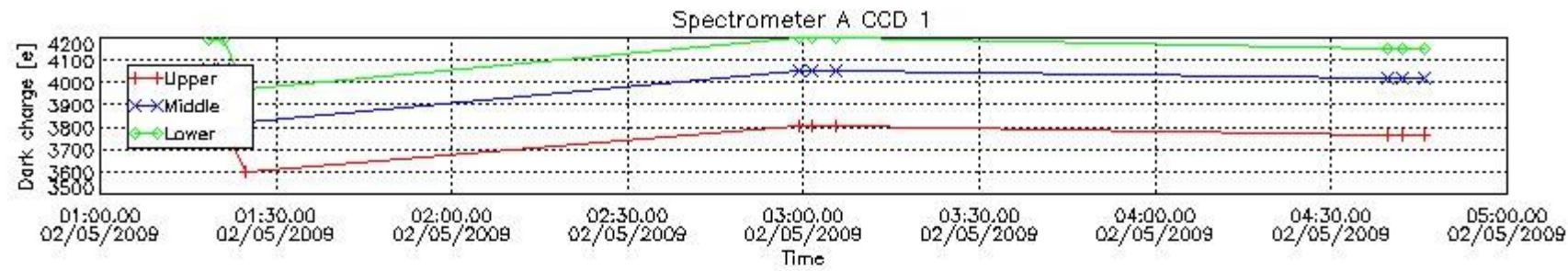
#### 4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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

##### 4.1 All products used the DSA observation for the DC computation

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



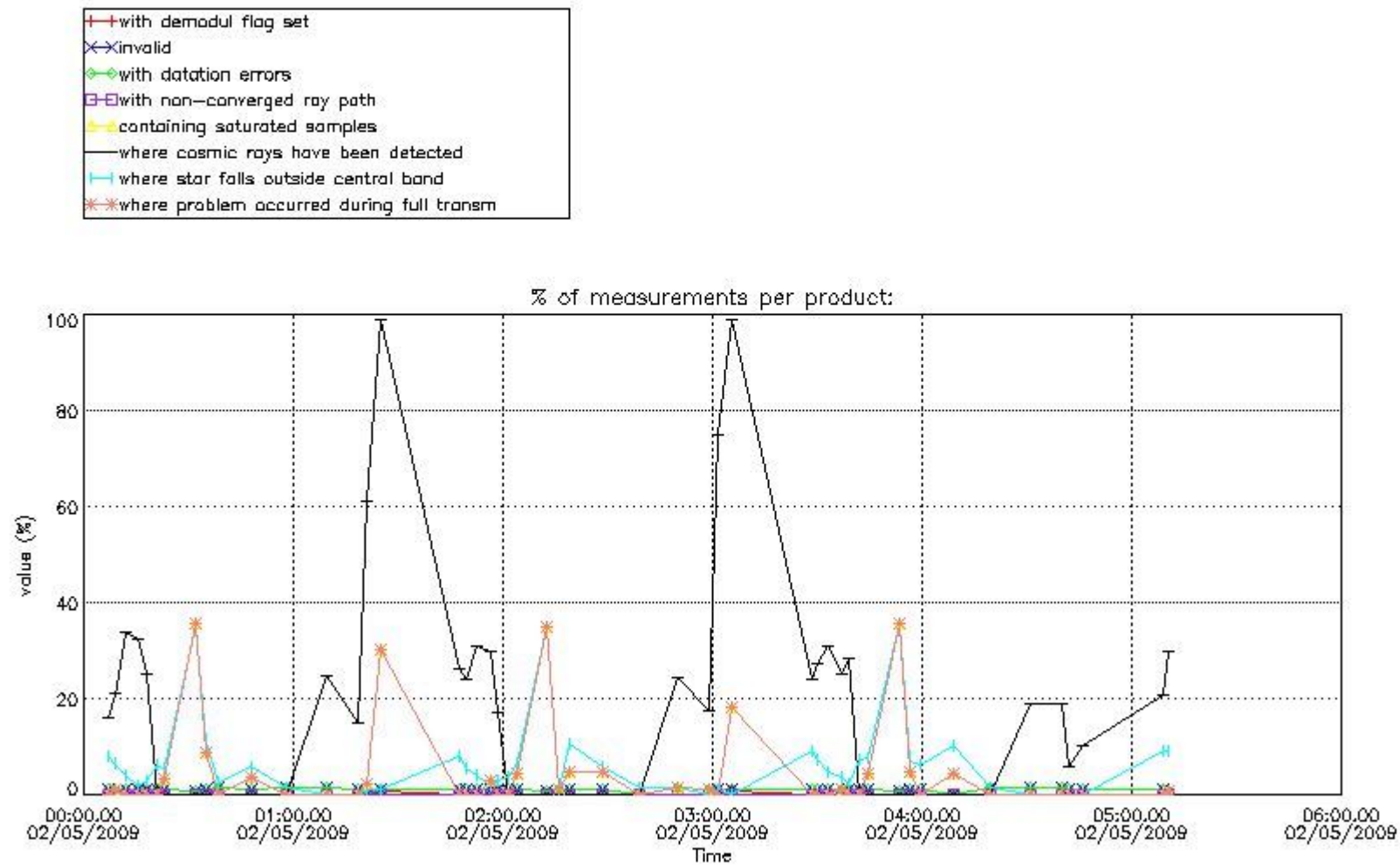
## 5. Demodulation flag and quality information monitoring

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

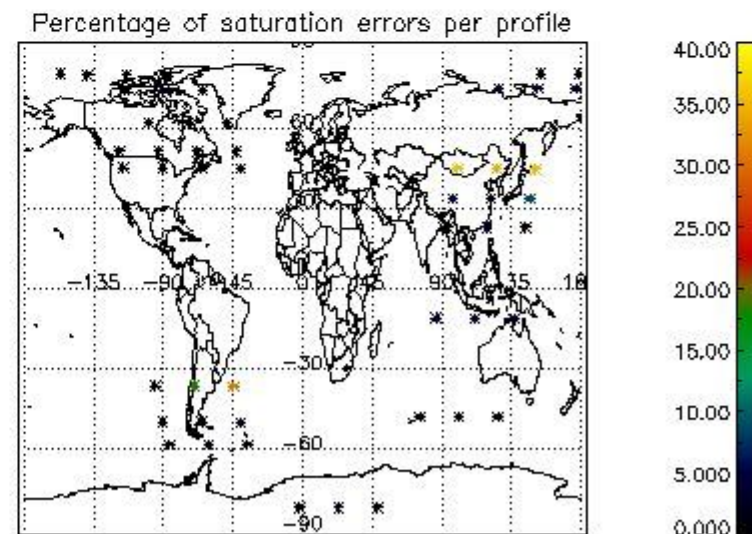
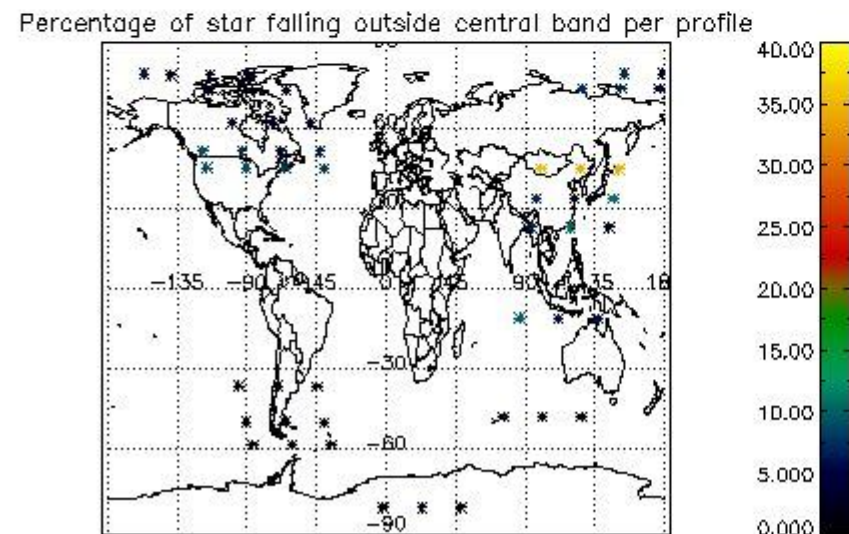
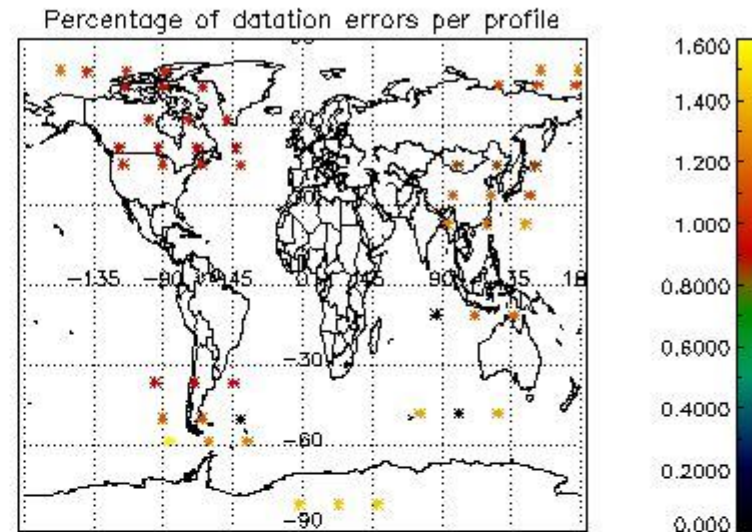
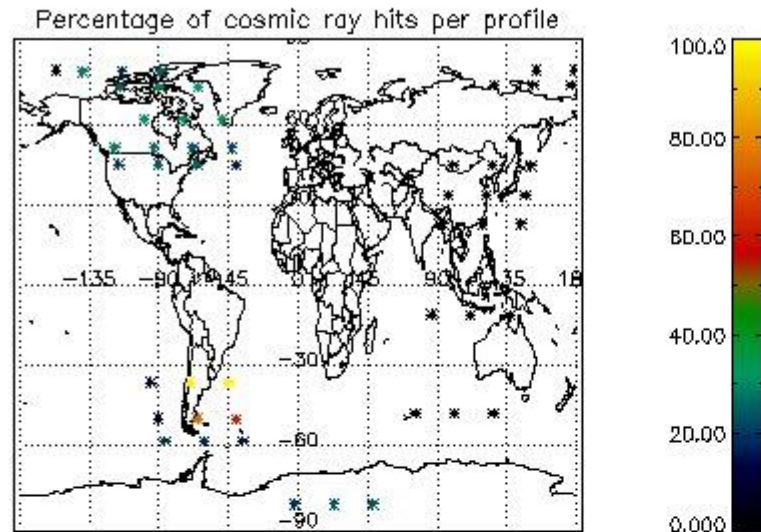
### 5.1 Percentage of products during reporting period with:

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



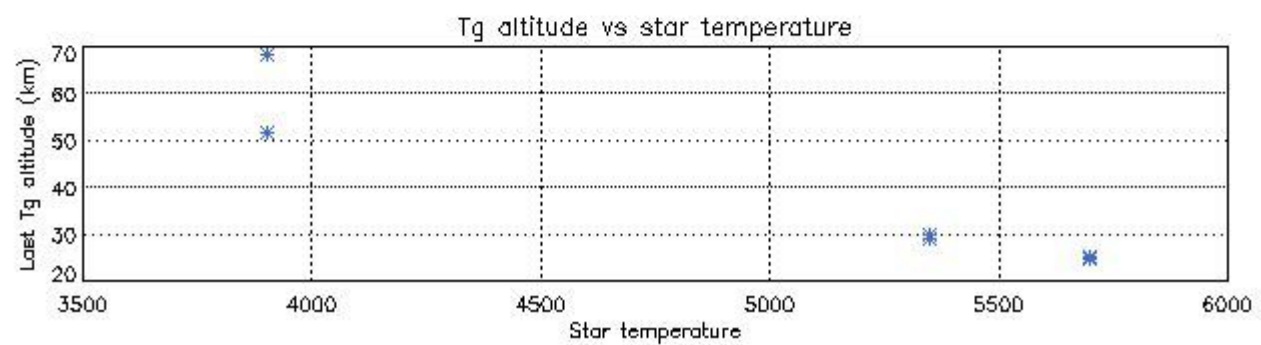
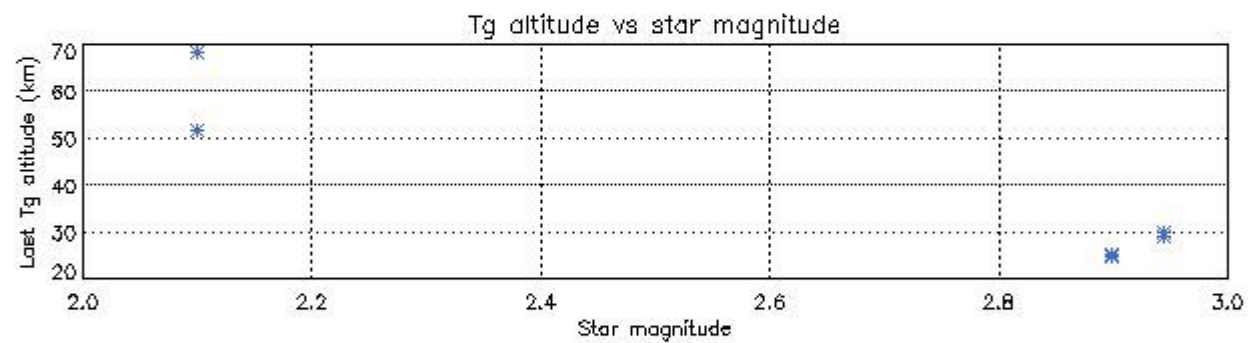
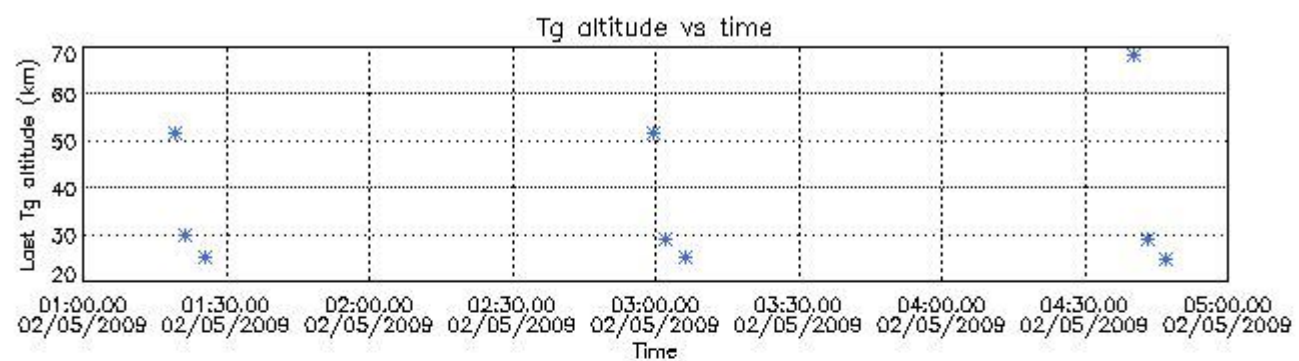
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	37.187	22.616	NaN
St. deviation:	15.819	9.3573	NaN
Maximum:	68.254	37.732	NaN
Minimum:	24.806	4.1267	NaN
Number of data:	9.0000	24.000	NaN

### 6.2 Plot for DARK limb products

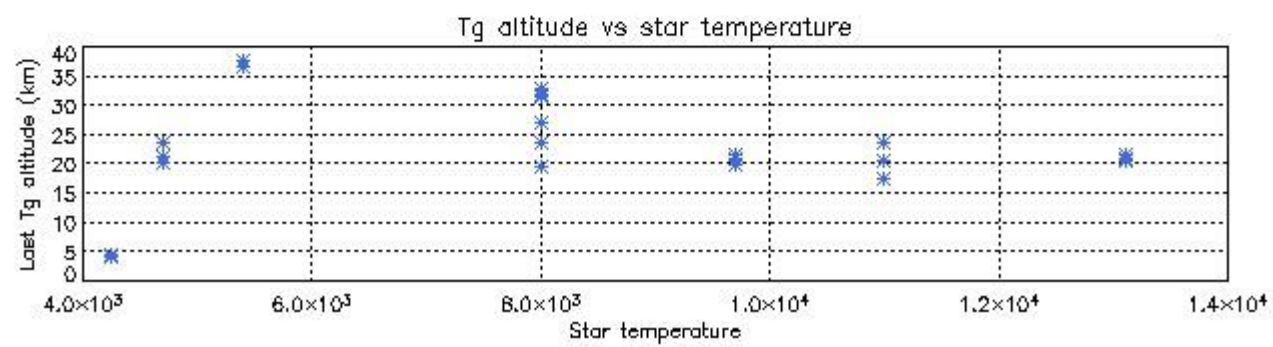
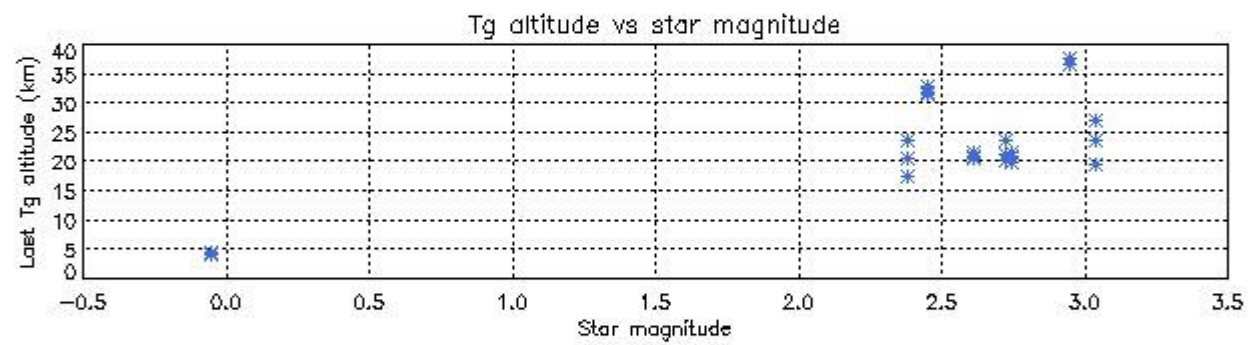
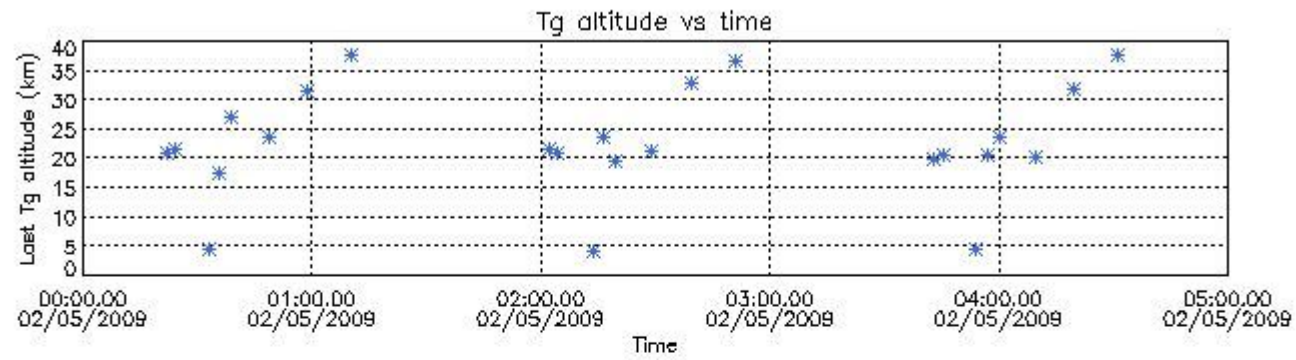
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

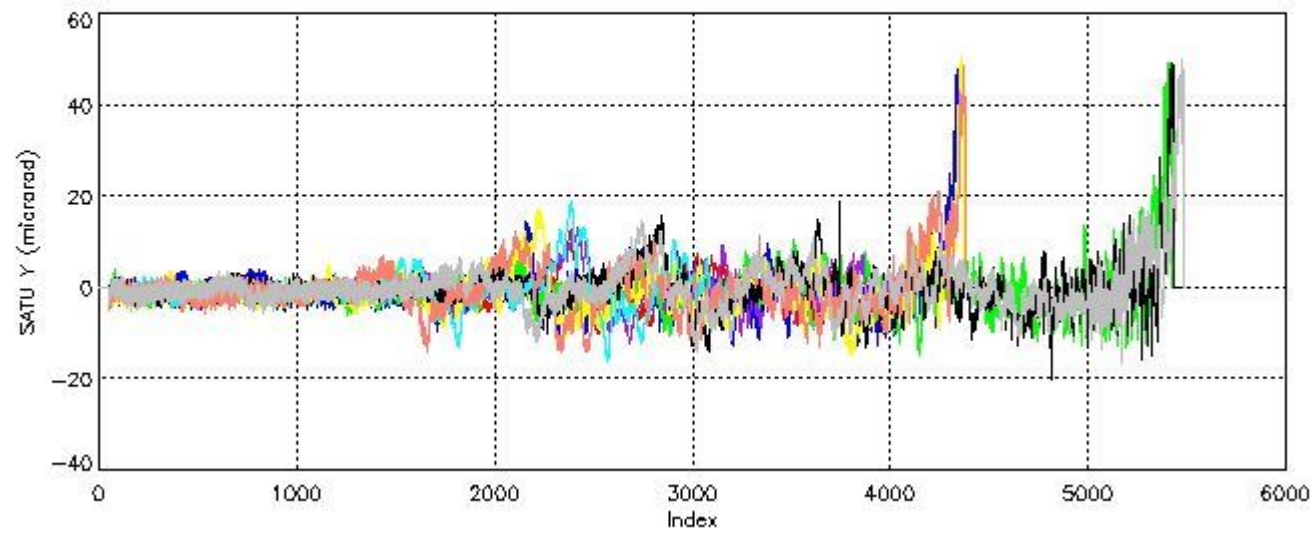
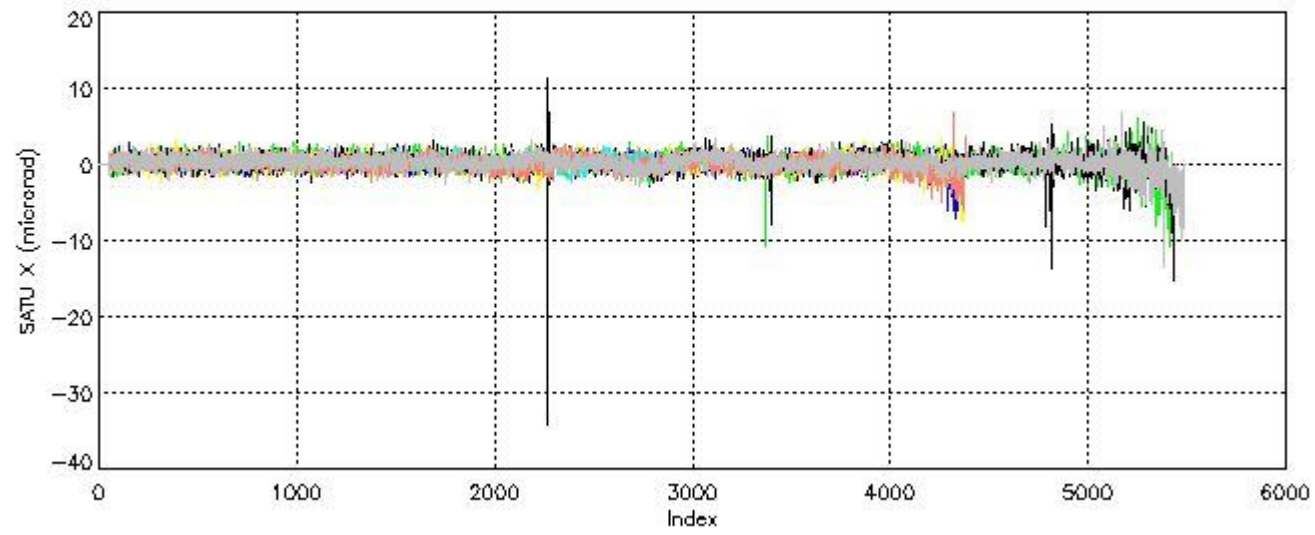


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.37570	-1.0177	0.34694	-1.4511
St. deviation:	0.59269	1.3377	0.89710	2.2450
Maximum:	3.1000	5.3000	5.8000	9.0000
Minimum:	-2.5000	-6.1000	-5.0000	-13.800

Number of data:	11900.	11900.	23650.	23650.
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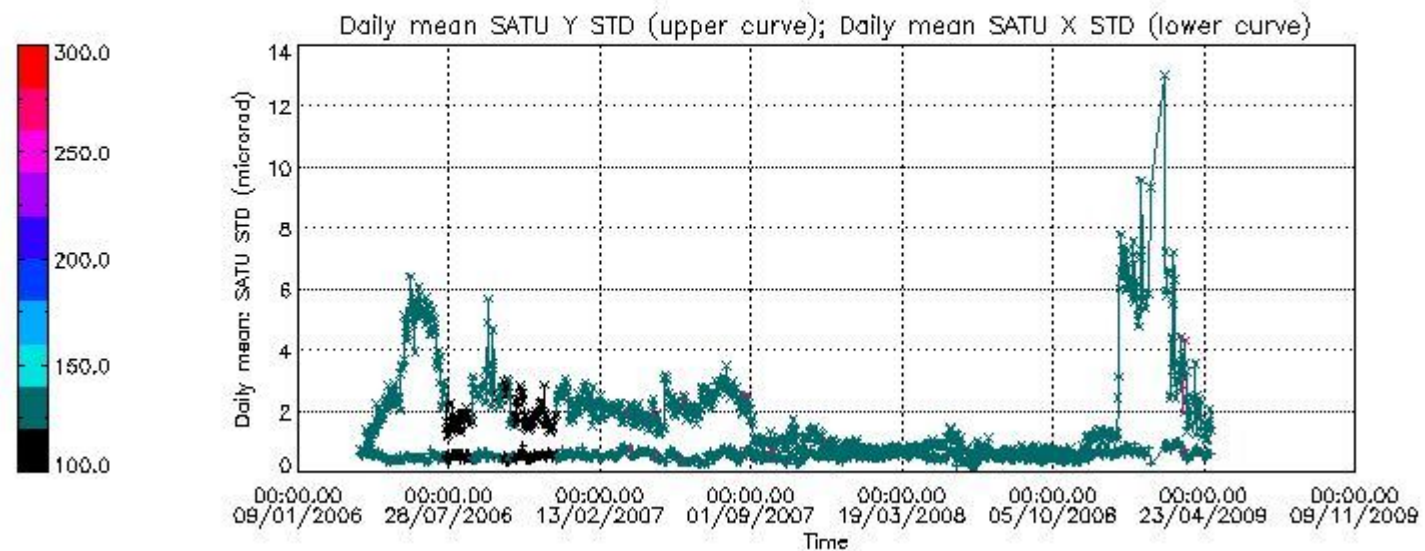
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

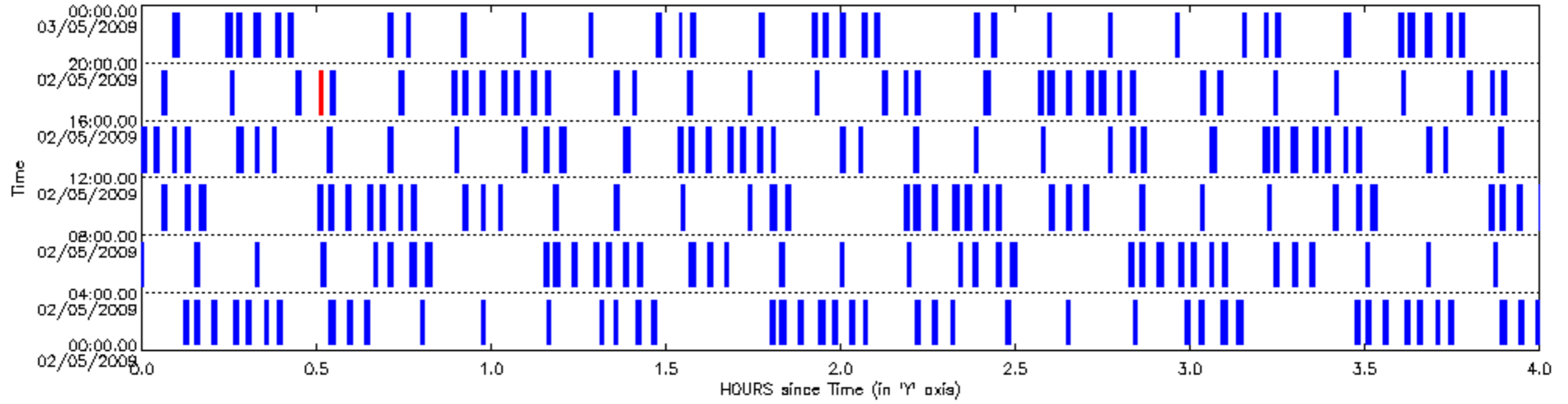
Lower curve: STD of SATU X axis

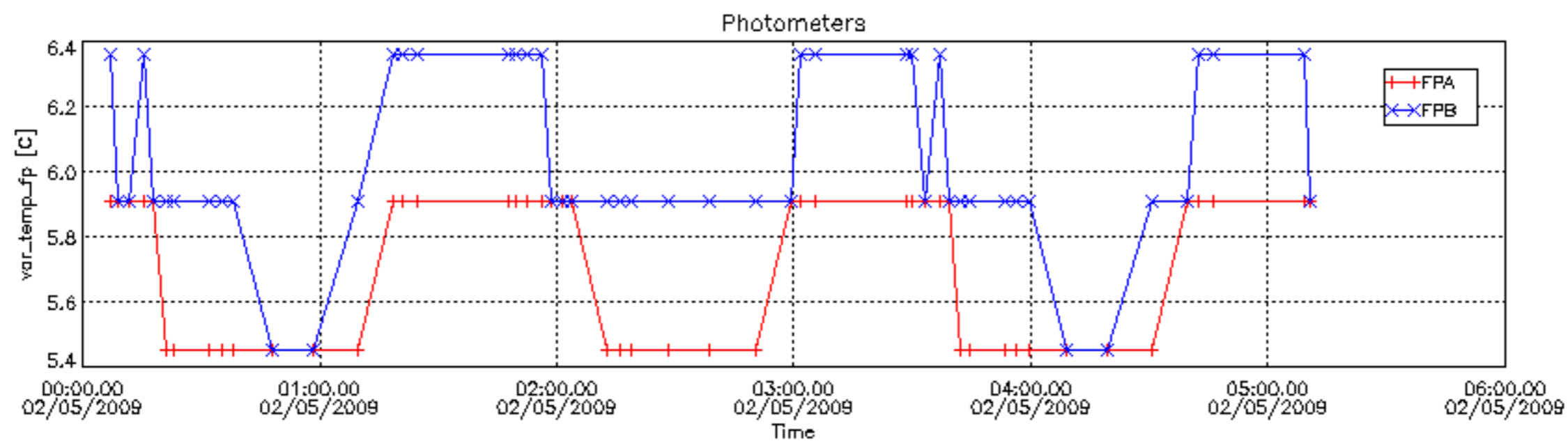
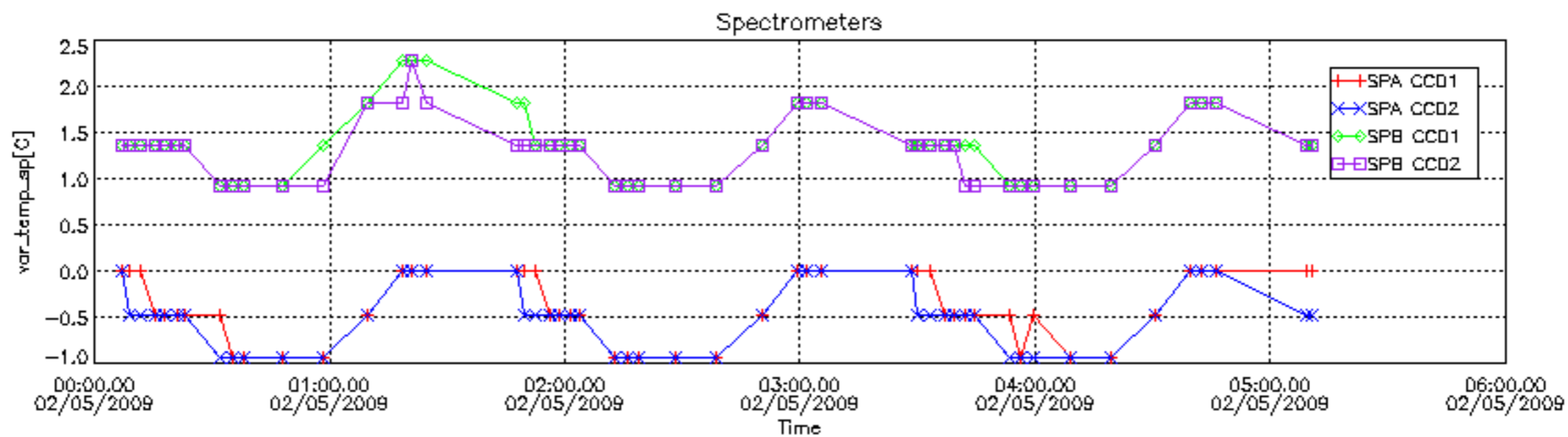


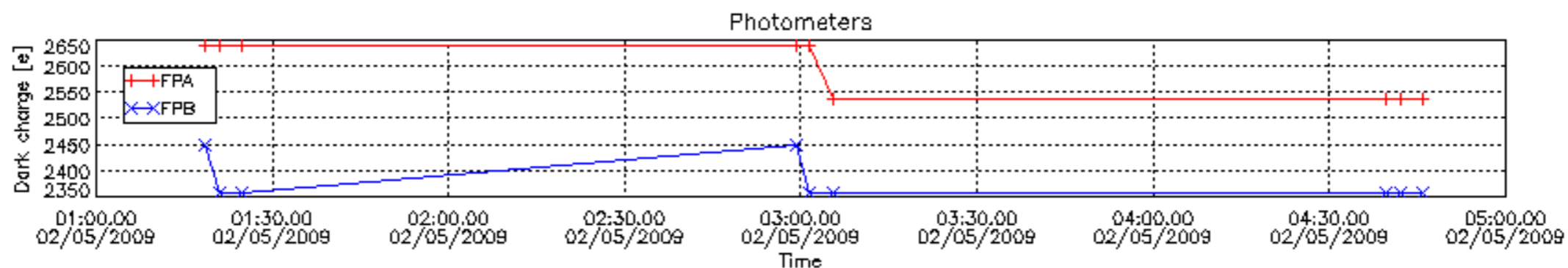
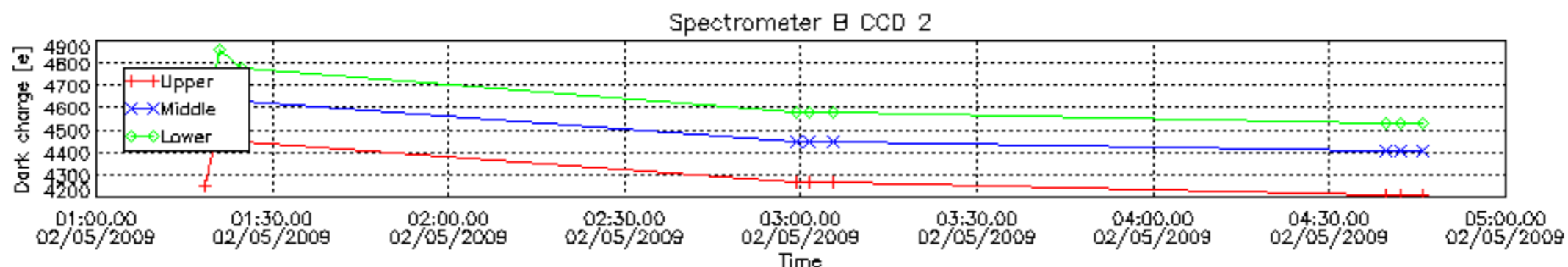
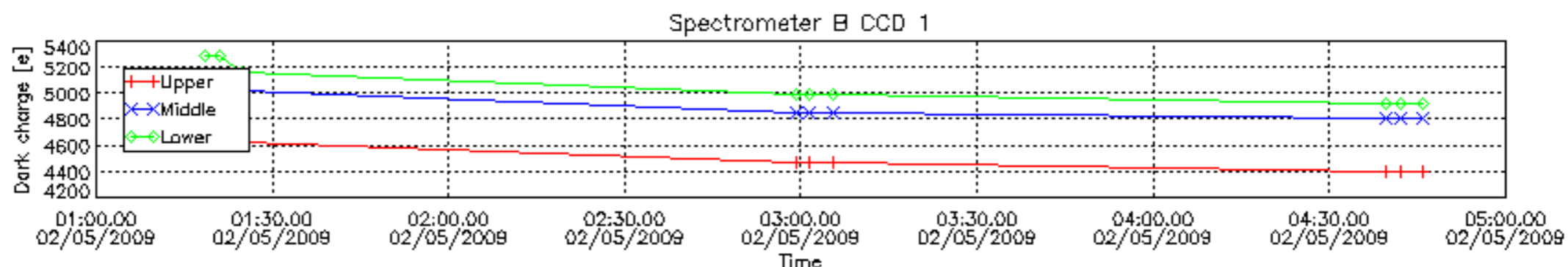
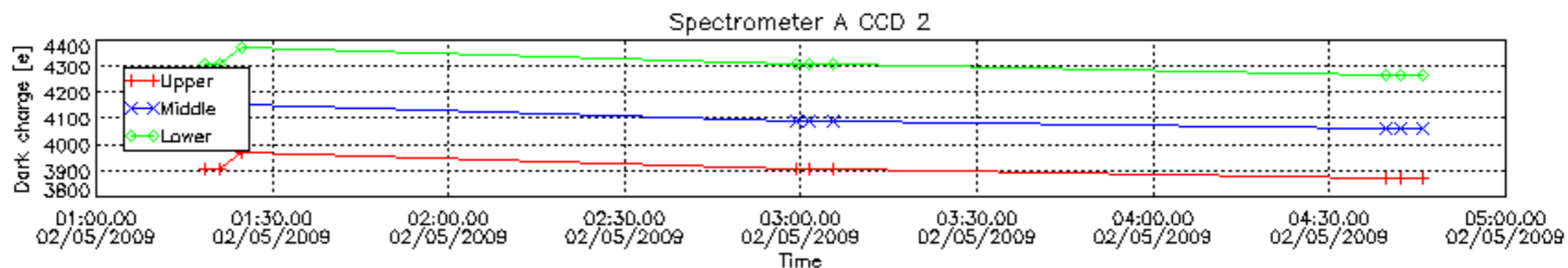
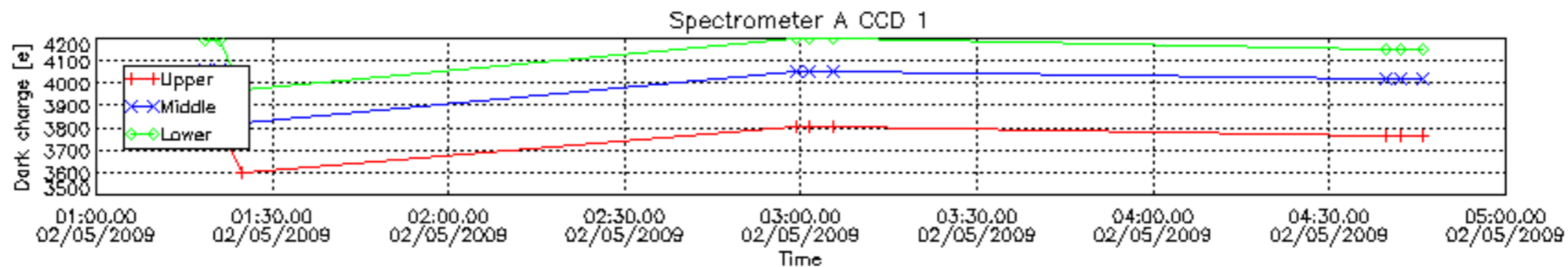
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	02-MAY-2009 00:07:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090430_144945_20090428_000000_20100101_000000	1	02-MAY-2009 00:07:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-MAY-2009 00:07:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-MAY-2009 00:07:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-MAY-2009 00:07:06
ECMWF_FILE	AUX_ECF_AXNECM20090501_064113_20090501_210000_20090502_090000	1	02-MAY-2009 00:07:06
ECMWF_FILE	AUX_ECF_AXNECM20090501_182113_20090502_030000_20090502_150000	44	02-MAY-2009 04:19:20
OPTIONAL_ECMWF_FILE	MISSING	1	02-MAY-2009 00:07:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090501_215518_000060572078_00358_37486_7859.N1	1	02-MAY-2009 00:07:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090501_234134_000057382078_00359_37487_7860.N1	16	02-MAY-2009 01:24:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090502_023654_000054192078_00361_37489_7862.N1	29	02-MAY-2009 02:50:13

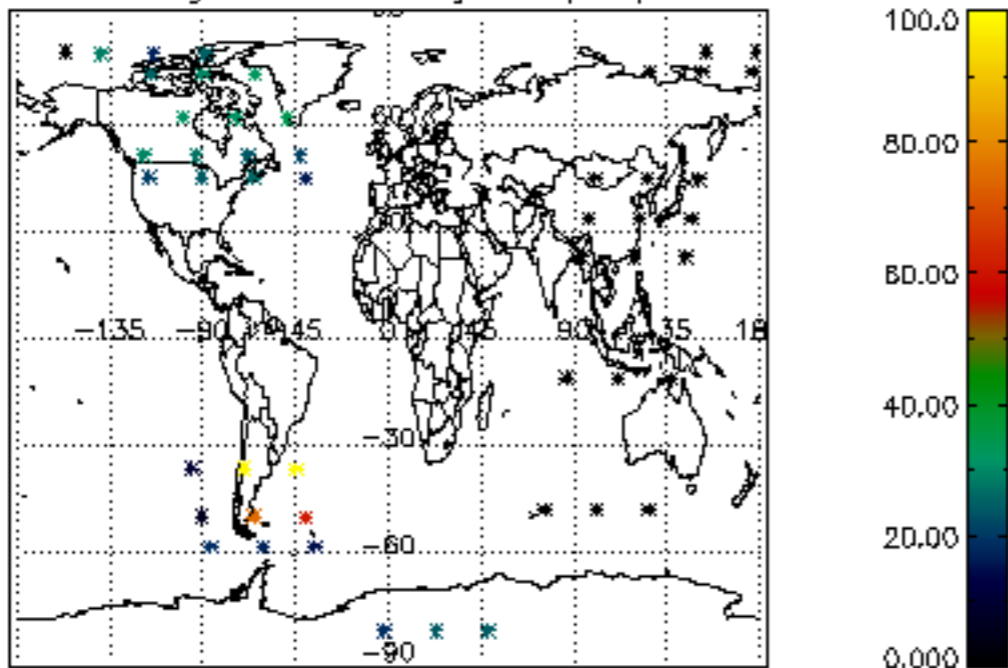




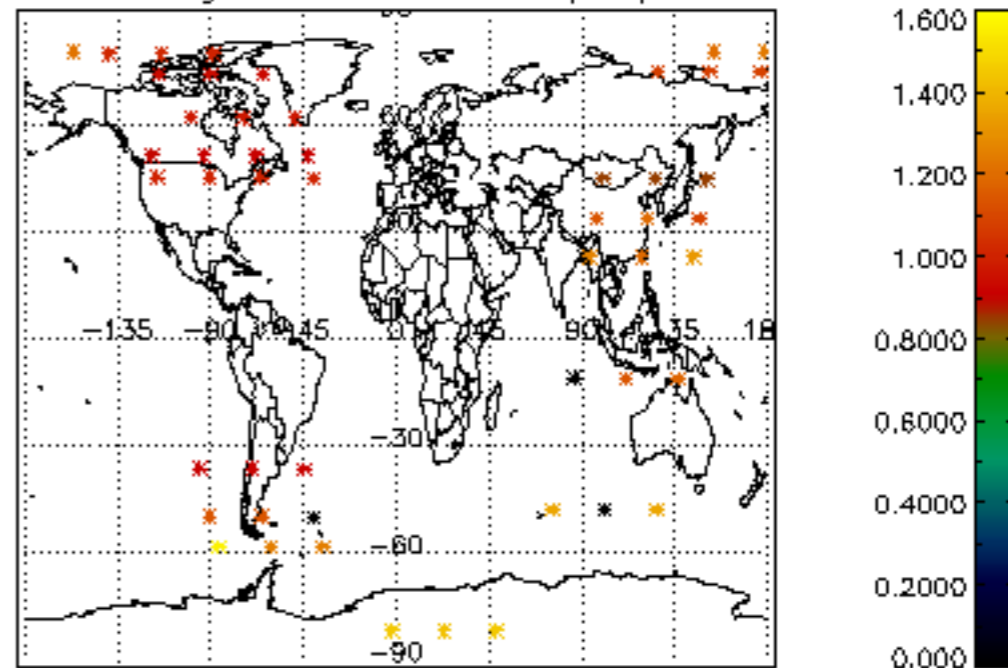




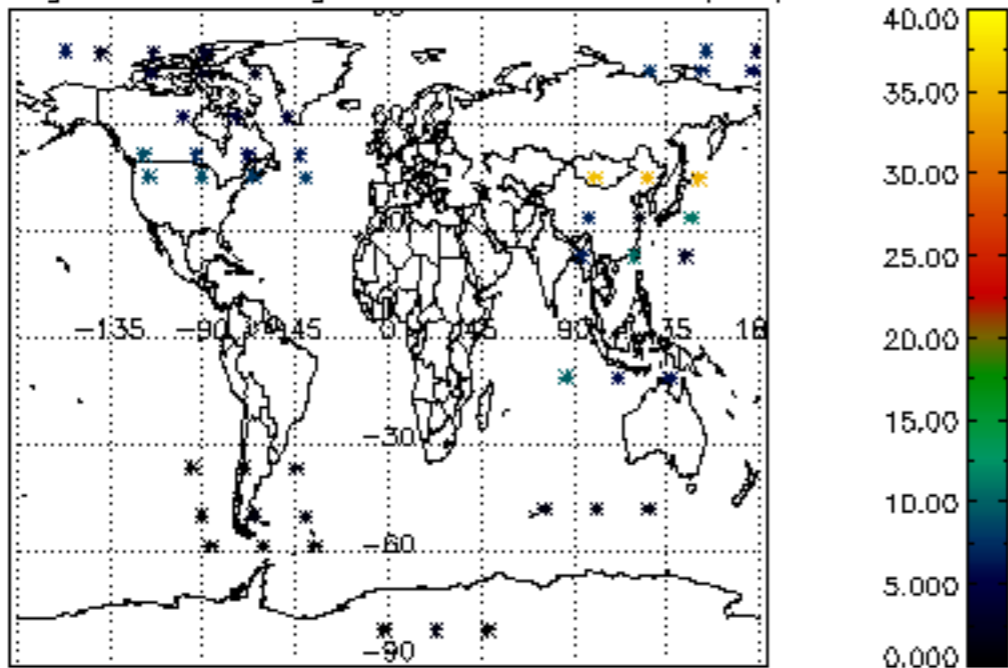
Percentage of cosmic ray hits per profile



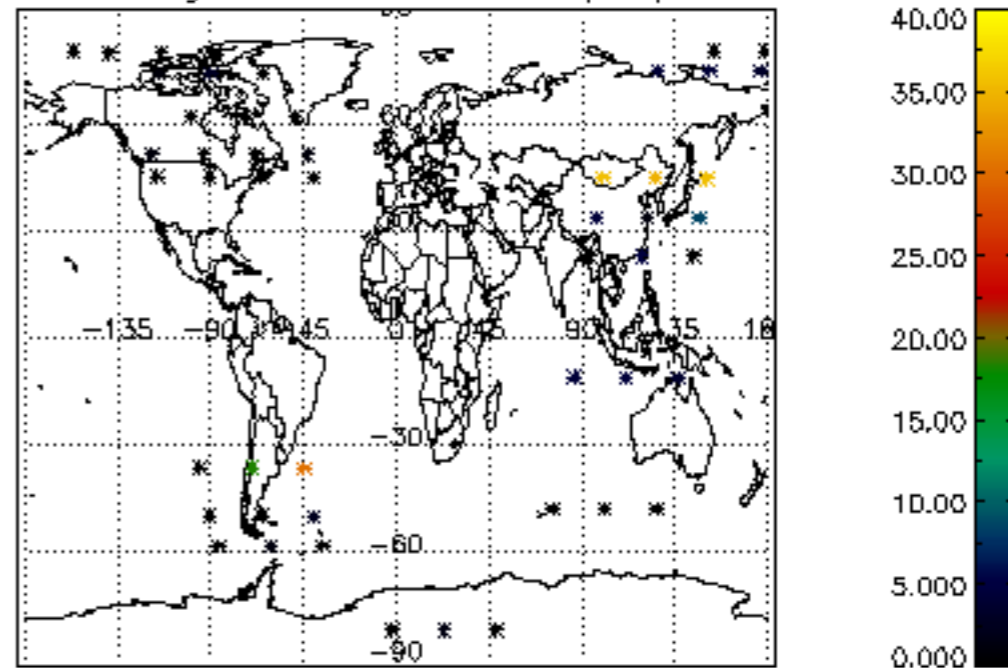
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

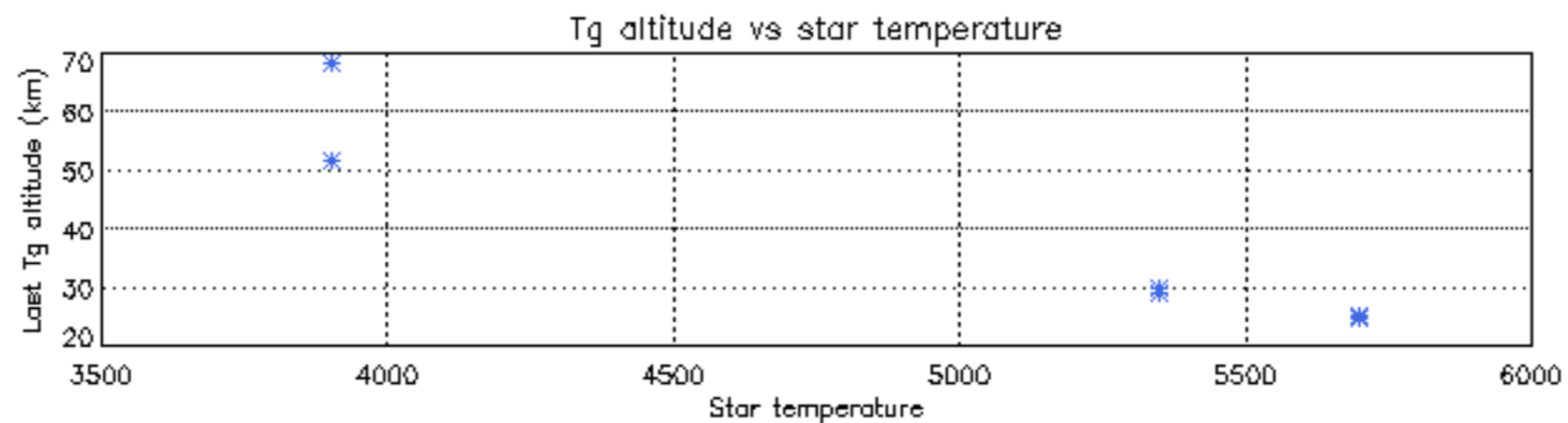
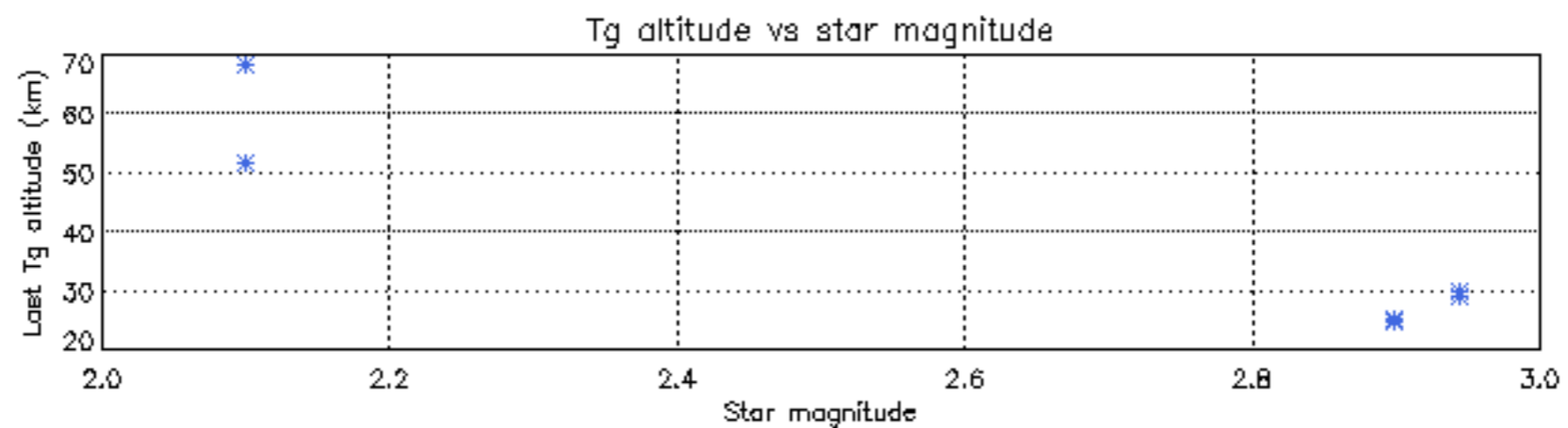
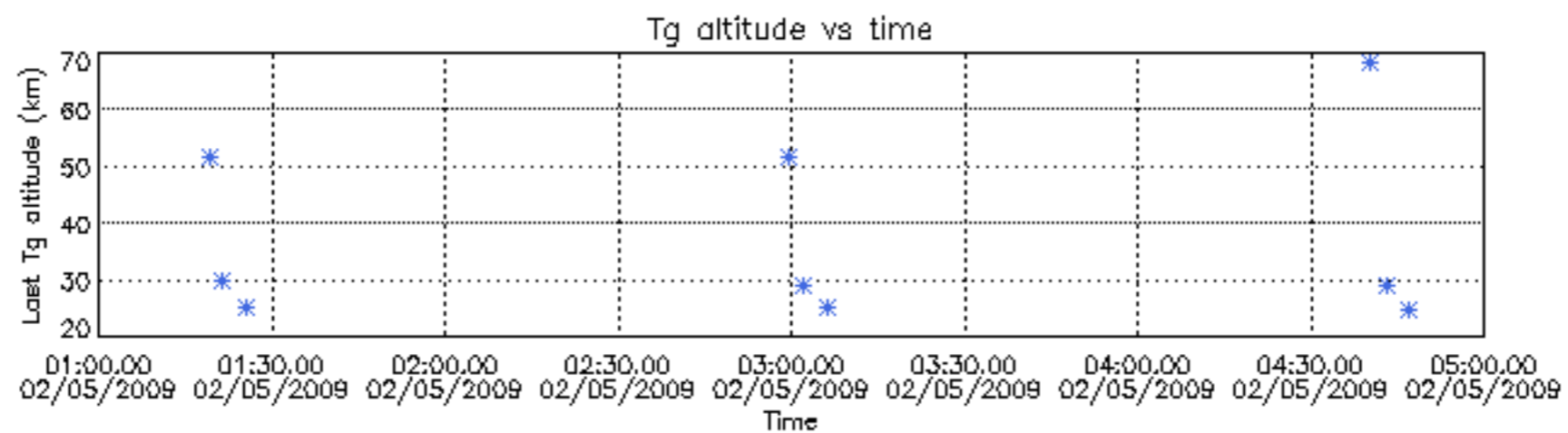


Percentage of saturation errors per profile

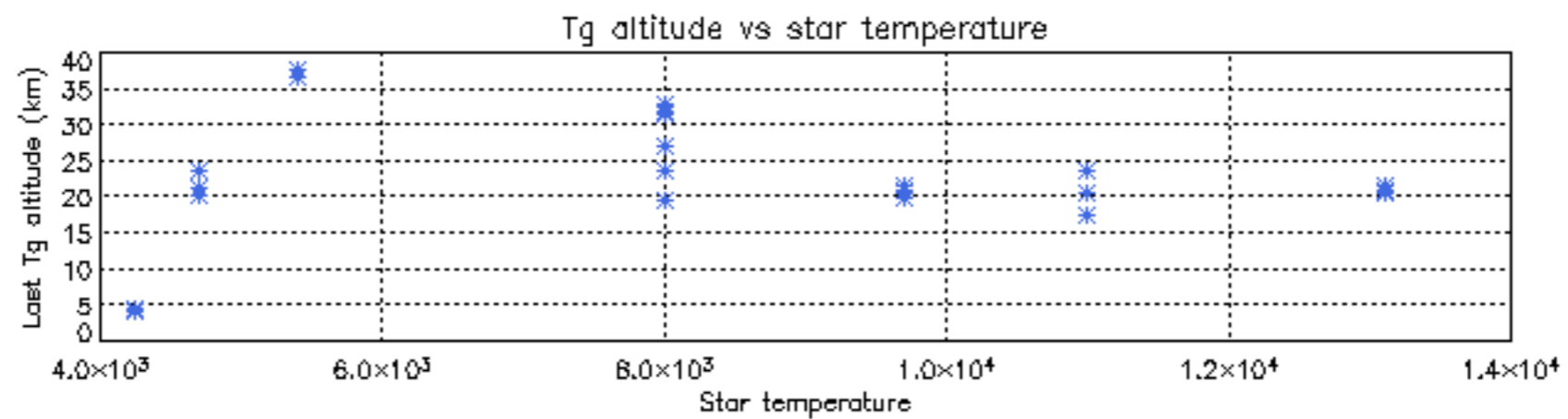
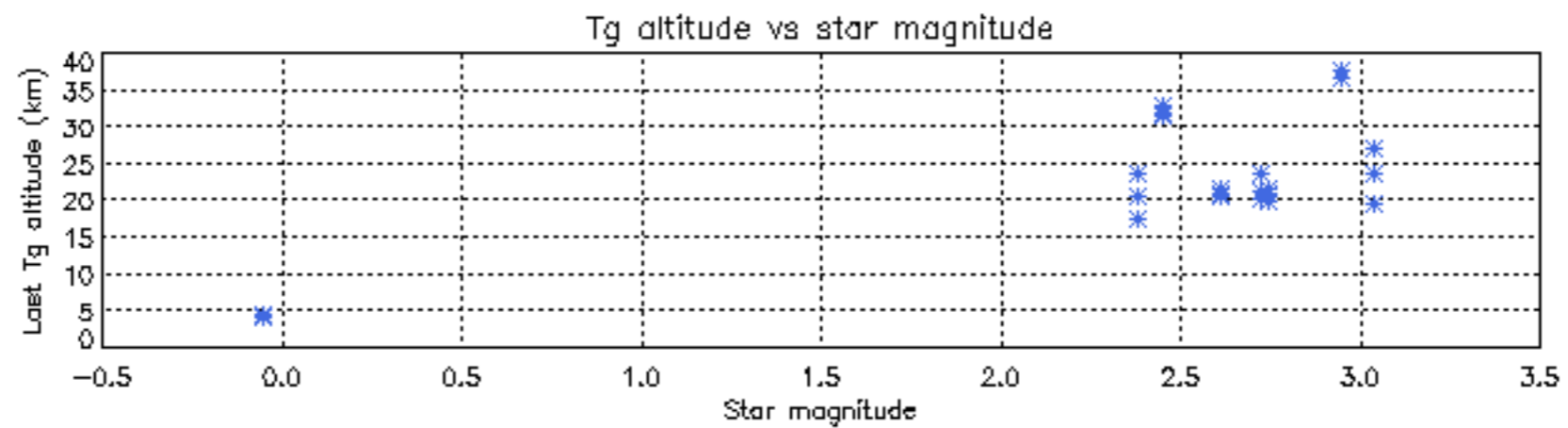
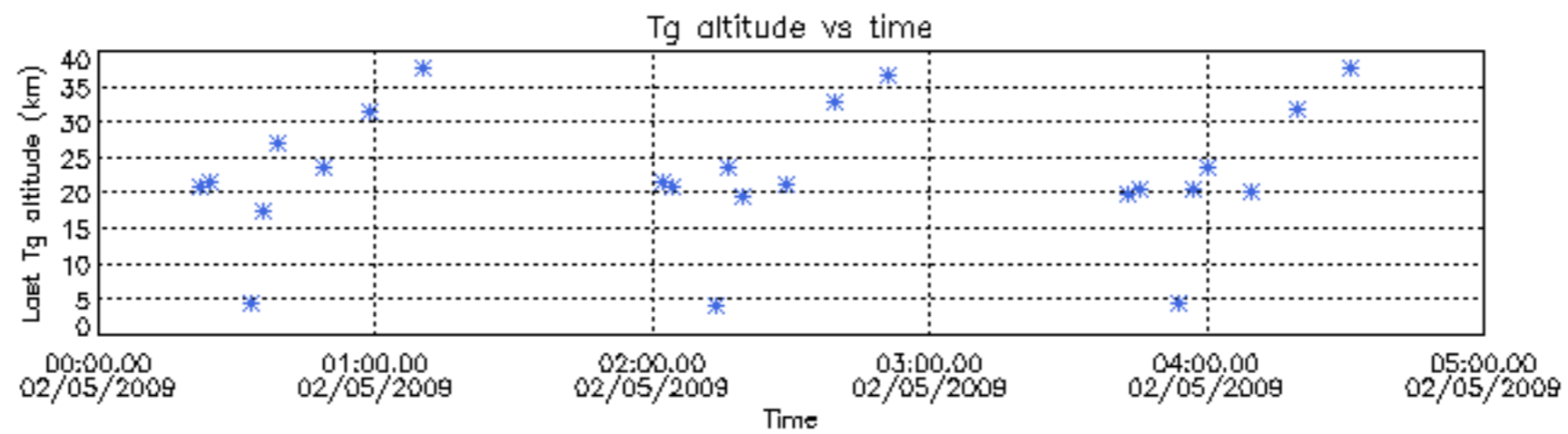


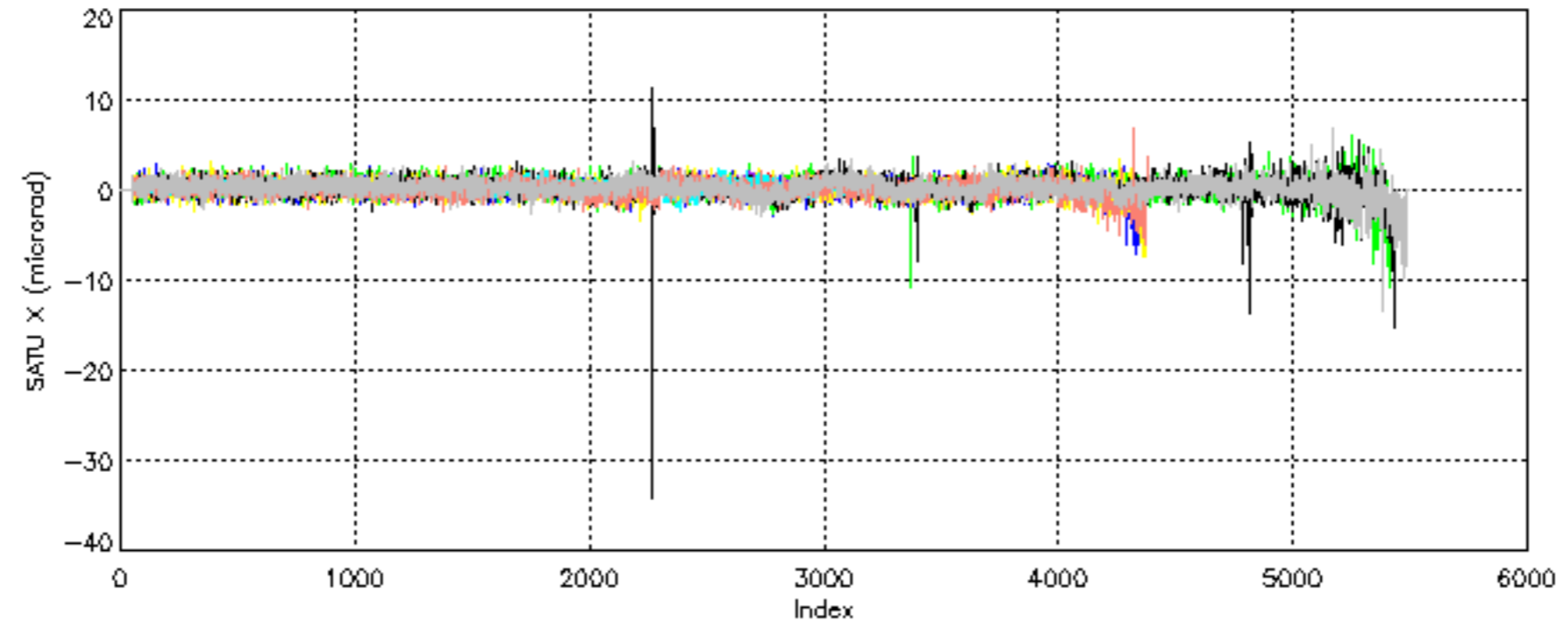


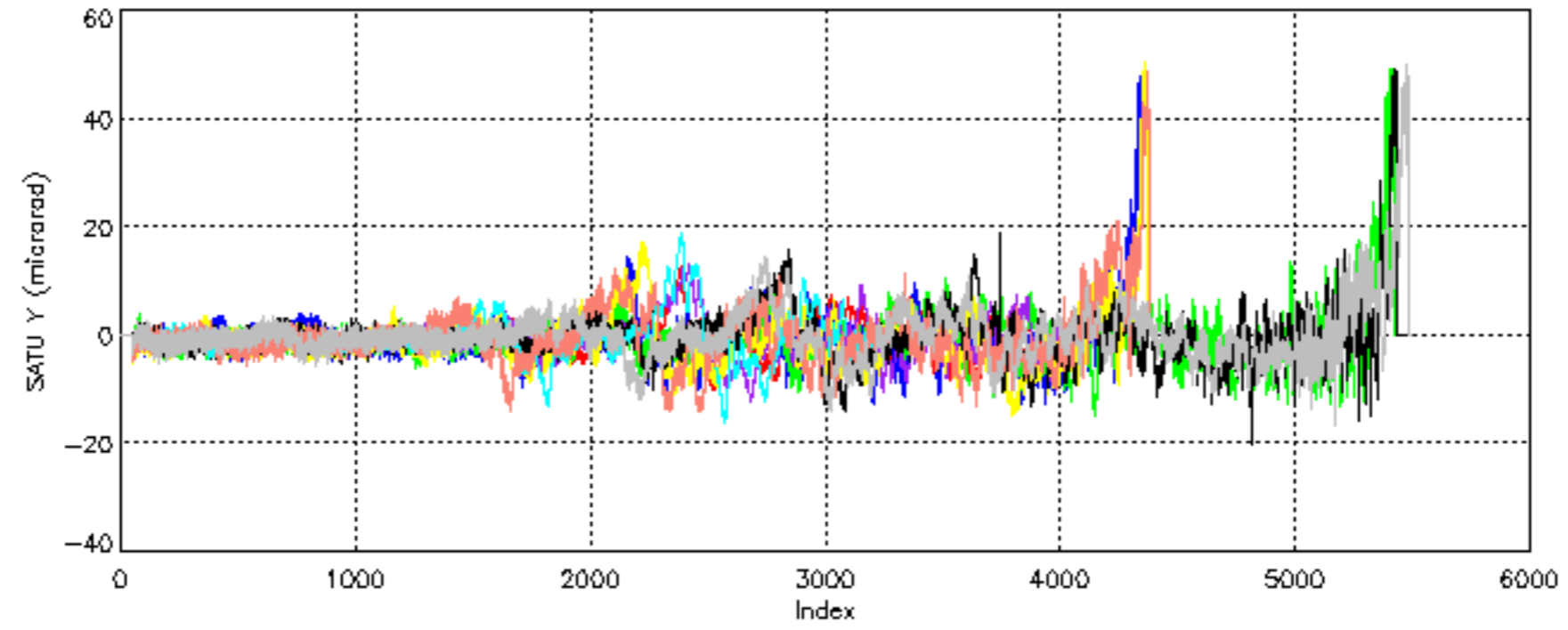
Tangent altitude at which the star is lost

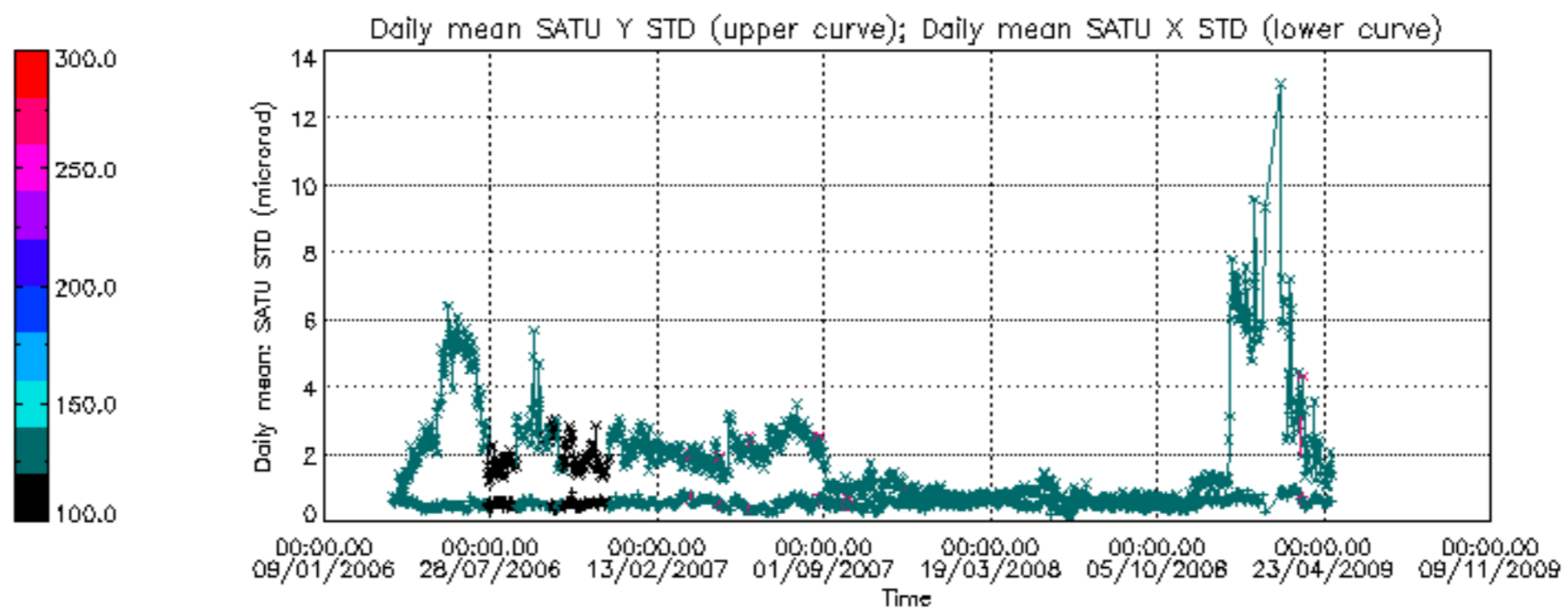


Tangent altitude at which the star is lost









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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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1; -856.4; 01-MAY-2009 01:52:22; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37474  
 2; -632.3; 01-MAY-2009 01:56:06; Dark ; 59.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 118; 0;37474  
 3; -475.7; 01-MAY-2009 01:58:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37474  
 4; 749.7; 01-MAY-2009 02:19:08; Dark ; 58.5; 40; The Sco ; 1.86; 7100;occ; 117; 0;37475  
 5; 855.0; 01-MAY-2009 02:20:53; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37475  
 6; 1041.9; 01-MAY-2009 02:24:00; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37475  
 7; 1266.8; 01-MAY-2009 02:27:45; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37475  
 8; 1401.0; 01-MAY-2009 02:29:59; Dark ; 56.5; 80; 7Del Sco ; 2.32; 30000;occ; 113; 0;37475  
 9; 1590.9; 01-MAY-2009 02:33:09; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37475  
 10; 1728.2; 01-MAY-2009 02:35:26; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;37475  
 11; 2264.0; 01-MAY-2009 02:44:22; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;37475  
 12; 2454.5; 01-MAY-2009 02:47:33; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37475  
 13; 2635.1; 01-MAY-2009 02:50:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37475  
 14; 3209.1; 01-MAY-2009 03:00:07; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37475  
 15; 3827.8; 01-MAY-2009 03:10:26; Bright; 51.5; 89; 5Alp Cep ; 2.45; 8000;occ; 103; 0;37475

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 2; -1001.3; 01-MAY-2009 03:30:33; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37475  
 3; -855.6; 01-MAY-2009 03:32:58; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37475  
 4; -631.1; 01-MAY-2009 03:36:43; Dark ; 58.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 117; 0;37475  
 5; -474.5; 01-MAY-2009 03:39:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37475  
 6; 751.0; 01-MAY-2009 03:59:45; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;37476  
 7; 855.7; 01-MAY-2009 04:01:30; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37476  
 8; 1042.8; 01-MAY-2009 04:04:37; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;37476  
 9; 1267.4; 01-MAY-2009 04:08:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37476  
 10; 1401.5; 01-MAY-2009 04:10:36; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;37476  
 11; 1590.8; 01-MAY-2009 04:13:45; Bright; 52.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 105; 0;37476  
 12; 1728.3; 01-MAY-2009 04:16:02; Bright; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;37476  
 13; 2263.9; 01-MAY-2009 04:24:58; Bright; 40.5; 3; 16Alp Boo ; -0.05; 4250;occ; 81; 0;37476  
 14; 2454.3; 01-MAY-2009 04:28:08; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37476  
 15; 2634.9; 01-MAY-2009 04:31:09; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37476  
 16; 3208.5; 01-MAY-2009 04:40:43; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;37476

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 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  
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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  
 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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17; 3207.9; 01-MAY-2009 06:21:18; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37477
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2; 1050.0; 01-MAY-2009 20:50:44; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;37486
3; 1272.3; 01-MAY-2009 20:54:26; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37486
4; 1404.7; 01-MAY-2009 20:56:38; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37486
5; 1592.1; 01-MAY-2009 20:59:46; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37486
6; 1727.8; 01-MAY-2009 21:02:01; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37486
7; 2261.0; 01-MAY-2009 21:10:55; Bright; 39.0; 3; 16Alp Boo ; -0.05; 4250;occ; 78; 0;37486
8; 2448.9; 01-MAY-2009 21:14:02; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37486
9; 2630.2; 01-MAY-2009 21:17:04; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37486
10; 3202.2; 01-MAY-2009 21:26:36; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37486
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
11; 2447.9; 02-MAY-2009 00:35:13; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37488
12; 2629.4; 02-MAY-2009 00:38:15; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37488
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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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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
8; 6813.7; 03-MAY-2009 09:39:22; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37507
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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7; 5208.3; 03-MAY-2009 10:53:12; Dark ; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;37508
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5; 3817.2; 03-MAY-2009 12:10:37; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37509
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5; 788.3; 04-MAY-2009 05:46:44; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37520  
6; 896.5; 04-MAY-2009 05:48:32; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37520  
7; 1072.7; 04-MAY-2009 05:51:28; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;37520  
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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  
9; 3810.7; 04-MAY-2009 21:42:29; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37529  
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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  
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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  
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3; 906.0; 05-MAY-2009 00:15:16; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37531  
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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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6; 897.2; 04-MAY-2009 07:29:08; Dark ; 54.5; 25; 35Lam Sco ; 1.62; 28000;occ; 109; 0;37521  
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8; 1288.6; 04-MAY-2009 07:35:40; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;37521  
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4; 3181.2; 04-MAY-2009 08:07:12; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;37521  
5; 3813.2; 04-MAY-2009 08:17:44; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37521  
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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  
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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  
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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  
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  
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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
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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  
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3; 2424.6; 05-MAY-2009 15:45:58; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37540
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7; 4549.5; 05-MAY-2009 16:21:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37540
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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
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9; 5278.0; 08-MAY-2009 08:16:17; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;37578
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4; 2492.8; 08-MAY-2009 12:31:40; Bright; 45.0; 67; 5Alp CrB ; 2.22; 11000;occ; 90; 0;37581
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6; 3792.4; 08-MAY-2009 12:53:19; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37581
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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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5; 4557.5; 08-MAY-2009 14:46:40; Dark ; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;37582
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7; 5282.7; 08-MAY-2009 14:58:46; Dark ; 51.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 102; 0;37582
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9; 6874.5; 08-MAY-2009 15:25:17; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 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
9; 5704.7; 08-MAY-2009 16:46:24; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37583
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13;	4579.8;	16-MAY-2009	00:30:31;	Dark	;	57.0;	93;	53Bet Peg	;	2.52;	3100;	occ;	114;	0;	37688
14;	4862.9;	16-MAY-2009	00:35:15;	Dark	;	56.5;	90;	54Alp Peg	;	2.49;	11000;	occ;	113;	0;	37688
15;	5214.9;	16-MAY-2009	00:41:07;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	37688

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1;	913.0;	16-MAY-2009	01:10:01;	Dark	;	55.0;	40;	The Sco	;	1.86;	7100;	occ;	110;	0;	37689
2;	1025.2;	16-MAY-2009	01:11:53;	Dark	;	51.0;	25;	35Lam Sco	;	1.62;	28000;	occ;	102;	0;	37689
3;	1165.4;	16-MAY-2009	01:14:13;	Dark	;	52.0;	75;	26Eps Sco	;	2.29;	4250;	occ;	104;	0;	37689
4;	1350.7;	16-MAY-2009	01:17:18;	Dark	;	3.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	6;	0;	37689
5;	1507.5;	16-MAY-2009	01:19:55;	Bright;		46.5;	97;	8Bet1Sco	;	2.56;	30000;	occ;	93;	0;	37689
6;	1705.9;	16-MAY-2009	01:23:13;	Bright;		52.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	105;	0;	37689
7;	1856.3;	16-MAY-2009	01:25:44;	Bright;		49.5;	120;	1Del Oph	;	2.73;	3200;	occ;	99;	0;	37689
8;	2046.4;	16-MAY-2009	01:28:54;	Bright;		44.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	88;	0;	37689
9;	2432.0;	16-MAY-2009	01:35:20;	Bright;		42.5;	67;	5Alp CrB	;	2.22;	11000;	occ;	85;	0;	37689
10;	3091.3;	16-MAY-2009	01:46:19;	Bright;		41.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	83;	0;	37689
11;	3748.2;	16-MAY-2009	01:57:16;	Bright;		43.0;	89;	5Alp Cep	;	2.45;	8000;	occ;	86;	0;	37689
12;	4580.1;	16-MAY-2009	02:11:08;	Dark	;	69.0;	93;	53Bet Peg	;	2.52;	3100;	occ;	138;	0;	37689
13;	4863.3;	16-MAY-2009	02:15:51;	Dark	;	55.5;	90;	54Alp Peg	;	2.49;	11000;	occ;	111;	0;	37689

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2;	-45.2;	16-MAY-2009	02:34:38;	Dark	;	47.0;	172;	Gam Gru	;	3.00;	13100;	occ;	94;	0;	37689
3;	914.0;	16-MAY-2009	02:50:37;	Dark	;	50.0;	40;	The Sco	;	1.86;	7100;	occ;	100;	0;	37690
4;	1025.9;	16-MAY-2009	02:52:29;	Dark	;	52.0;	25;	35Lam Sco	;	1.62;	28000;	occ;	104;	0;	37690
5;	1165.9;	16-MAY-2009	02:54:49;	Dark	;	52.0;	75;	26Eps Sco	;	2.29;	4250;	occ;	104;	0;	37690
6;	1351.5;	16-MAY-2009	02:57:55;	Dark	;	59.0;	16;	21Alp Sco	;	1.02;	3000;	occ;	118;	0;	37690
7;	1507.7;	16-MAY-2009	03:00:31;	Bright;		45.5;	97;	8Bet1Sco	;	2.56;	30000;	occ;	91;	0;	37690
8;	1706.1;	16-MAY-2009	03:03:50;	Bright;		53.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	107;	0;	37690
9;	1856.3;	16-MAY-2009	03:06:20;	Bright;		49.5;	120;	1Del Oph	;	2.73;	3200;	occ;	99;	0;	37690
10;	2046.8;	16-MAY-2009	03:09:30;	Bright;		43.5;	102;	24Alp Ser	;	2.60;	4250;	occ;	87;	0;	37690
11;	2431.2;	16-MAY-2009	03:15:55;	Bright;		45.0;	67;	5Alp CrB	;	2.22;	11000;	occ;	90;	0;	37690
12;	3091.1;	16-MAY-2009	03:26:55;	Bright;		42.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	84;	0;	37690

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1;	-2288.4;	16-MAY-2009	03:37:51;	Bright;		43.5;	89;	5Alp Cep	;	2.45;	8000;	occ;	87;	0;	37690
2;	-1455.7;	16-MAY-2009	03:51:44;	Dark	;	59.0;	93;	53Bet Peg	;	2.52;	3100;	occ;	118;	0;	37690
3;	-1172.0;	16-MAY-2009	03:56:27;	Dark	;	52.0;	90;	54Alp Peg	;	2.49;	11000;	occ;	104;	0;	37690
4;	-819.0;	16-MAY-2009	04:02:20;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	37690
5;	-43.9;	16-MAY-2009	04:15:15;	Dark	;	46.0;	172;	Gam Gru	;	3.00;	13100;	occ;	92;	0;	37690
6;	914.8;	16-MAY-2009	04:31:14;	Dark	;	50.0;	40;	The Sco	;	1.86;	7100;	occ;	100;	0;	37691
7;	1026.5;	16-MAY-2009	04:33:06;	Dark	;	48.5;	25;	35Lam Sco	;	1.62;	28000;	occ;	97;	0;	37691
8;	1166.5;	16-MAY-2009	04:35:26;	Dark	;	47.5;	75;	26Eps Sco	;	2.29;	4250;	occ;	95;	0;	37691
9;	1351.6;	16-MAY-2009	04:38:31;	Dark	;	60.5;	16;	21Alp Sco	;	1.02;	3000;	occ;	121;	0;	37691
10;	1507.9;	16-MAY-2009	04:41:07;	Bright;		43.5;	97;	8Bet1Sco	;	2.56;	30000;	occ;	87;	0;	37691
11;	1705.8;	16-MAY-2009	04:44:25;	Bright;		52.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	105;	0;	37691
12;	1856.1;	16-MAY-2009	04:46:56;	Bright;		50.5;	120;	1Del Oph	;	2.73;	3200;	occ;	101;	0;	37691
13;	2046.6;	16-MAY-2009	04:50:06;	Bright;		44.5;	102;	24Alp Ser	;	2.60;	4250;	occ;	89;	0;	37691
14;	2431.0;	16-MAY-2009	04:56:30;	Bright;		43.5;	67;	5Alp CrB	;	2.22;	11000;	occ;	87;	0;	37691
15;	3090.6;	16-MAY-2009	05:07:30;	Bright;		41.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	83;	0;	37691

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2;	-1455.4;	16-MAY-2009	05:32:20;	Dark	;	70.0;	93;	53Bet Peg	;	2.52;	3100;	occ;	140;	0;	37691
3;	-1171.5;	16-MAY-2009	05:37:04;	Dark	;	56.0;	90;	54Alp Peg	;	2.49;	11000;	occ;	112;	0;	37691
4;	-818.0;	16-MAY-2009	05:42:57;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	37691
5;	-43.4;	16-MAY-2009	05:55:52;	Dark	;	46.0;	172;	Gam Gru	;	3.00;	13100;	occ;	92;	0;	37691
6;	915.4;	16-MAY-2009	06:11:51;	Dark	;	51.0;	40;	The Sco	;	1.86;	7100;	occ;	102;	0;	37692
7;	1027.0;	16-MAY-2009	06:13:42;	Dark	;	56.5;	25;	35Lam Sco	;	1.62;	28000;	occ;	113;	0;	37692
8;	1166.9;	16-MAY-2009	06:16:02;	Dark	;	52.5;	75;	26Eps Sco	;	2.29;	4250;	occ;	105;	0;	37692

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9; 1352.1; 16-MAY-2009 06:19:07; Dark ; 64.0; 16; 21Alp Sco ; 1.02; 3000;occ; 128; 0;37692
10; 1508.1; 16-MAY-2009 06:21:44; Bright; 48.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 96; 0;37692
11; 1706.0; 16-MAY-2009 06:25:01; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;37692
12; 1855.9; 16-MAY-2009 06:27:31; Bright; 49.0; 120; 1Del Oph ; 2.73; 3200;occ; 98; 0;37692
13; 2046.2; 16-MAY-2009 06:30:42; Bright; 44.0; 102; 24Alp Ser ; 2.60; 4250;occ; 88; 0;37692
14; 2430.6; 16-MAY-2009 06:37:06; Bright; 41.5; 67; 5Alp CrB ; 2.22; 11000;occ; 83; 0;37692
15; 3090.2; 16-MAY-2009 06:48:06; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;37692
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 3; 1170.6; 16-MAY-2009 19:40:53; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;37700
 4; 1354.5; 16-MAY-2009 19:43:57; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;37700
 5; 1509.5; 16-MAY-2009 19:46:32; Bright; 47.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 94; 0;37700
 6; 1705.2; 16-MAY-2009 19:49:48; Bright; 52.5; 98; 13Zet Oph ; 2.57; 30000;occ; 105; 0;37700
 7; 1854.3; 16-MAY-2009 19:52:17; Bright; 49.0; 120; 1Del Oph ; 2.73; 3200;occ; 98; 0;37700
 8; 2043.9; 16-MAY-2009 19:55:27; Bright; 42.5; 102; 24Alp Ser ; 2.60; 4250;occ; 85; 0;37700
 9; 2426.8; 16-MAY-2009 20:01:50; Bright; 43.0; 67; 5Alp CrB ; 2.22; 11000;occ; 86; 0;37700
10; 3086.3; 16-MAY-2009 20:12:49; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;37700
11; 3743.0; 16-MAY-2009 20:23:46; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;37700
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 3; 1032.8; 16-MAY-2009 21:19:12; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37701
 4; 1170.9; 16-MAY-2009 21:21:30; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;37701
 5; 1354.6; 16-MAY-2009 21:24:33; Dark ; 65.0; 16; 21Alp Sco ; 1.02; 3000;occ; 130; 0;37701
 6; 1509.6; 16-MAY-2009 21:27:08; Bright; 44.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 89; 0;37701
 7; 1705.2; 16-MAY-2009 21:30:24; Bright; 51.5; 98; 13Zet Oph ; 2.57; 30000;occ; 103; 0;37701
 8; 1854.0; 16-MAY-2009 21:32:53; Bright; 48.5; 120; 1Del Oph ; 2.73; 3200;occ; 97; 0;37701
 9; 2043.8; 16-MAY-2009 21:36:03; Bright; 43.0; 102; 24Alp Ser ; 2.60; 4250;occ; 86; 0;37701
10; 2426.3; 16-MAY-2009 21:42:25; Bright; 43.0; 67; 5Alp CrB ; 2.22; 11000;occ; 86; 0;37701
11; 3085.9; 16-MAY-2009 21:53:25; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37701
12; 3742.6; 16-MAY-2009 22:04:21; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;37701
13; 4582.8; 16-MAY-2009 22:18:22; Dark ; 62.0; 93; 53Bet Peg ; 2.52; 3100;occ; 124; 0;37701
14; 4869.6; 16-MAY-2009 22:23:08; Dark ; 57.0; 90; 54Alp Peg ; 2.49; 11000;occ; 114; 0;37701
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 3; 1033.4; 16-MAY-2009 22:59:48; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;37702
 4; 1171.5; 16-MAY-2009 23:02:06; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 0;37702
 5; 1355.0; 16-MAY-2009 23:05:10; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;37702
 6; 1509.6; 16-MAY-2009 23:07:44; Bright; 43.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 87; 0;37702
 7; 1705.1; 16-MAY-2009 23:11:00; Bright; 52.5; 98; 13Zet Oph ; 2.57; 30000;occ; 105; 0;37702
 8; 1854.2; 16-MAY-2009 23:13:29; Bright; 48.0; 120; 1Del Oph ; 2.73; 3200;occ; 96; 0;37702
 9; 2043.3; 16-MAY-2009 23:16:38; Bright; 43.0; 102; 24Alp Ser ; 2.60; 4250;occ; 86; 0;37702
10; 2425.7; 16-MAY-2009 23:23:00; Bright; 43.5; 67; 5Alp CrB ; 2.22; 11000;occ; 87; 0;37702
11; 3085.2; 16-MAY-2009 23:34:00; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;37702
12; 3742.2; 16-MAY-2009 23:44:57; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;37702
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 3; 1171.7; 17-MAY-2009 00:42:42; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;37703
 4; 1355.3; 17-MAY-2009 00:45:46; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;37703
 5; 1510.0; 17-MAY-2009 00:48:21; Bright; 44.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 89; 0;37703
 6; 1705.1; 17-MAY-2009 00:51:36; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;37703
 7; 1853.8; 17-MAY-2009 00:54:04; Bright; 48.5; 120; 1Del Oph ; 2.73; 3200;occ; 97; 0;37703
 8; 2043.3; 17-MAY-2009 00:57:14; Bright; 43.0; 102; 24Alp Ser ; 2.60; 4250;occ; 86; 0;37703
 9; 2425.3; 17-MAY-2009 01:03:36; Bright; 42.0; 67; 5Alp CrB ; 2.22; 11000;occ; 84; 0;37703
10; 3084.9; 17-MAY-2009 01:14:35; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;37703
11; 3741.8; 17-MAY-2009 01:25:32; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;37703
12; 4583.3; 17-MAY-2009 01:39:34; Dark ; 53.0; 93; 53Bet Peg ; 2.52; 3100;occ; 106; 0;37703
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13; 4871.0; 17-MAY-2009 01:44:21; Dark ; 54.0; 90; 54Alp Peg ; 2.49; 11000;occ; 108; 0;37703
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4; 1034.7; 17-MAY-2009 02:21:01; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37704
5; 1172.3; 17-MAY-2009 02:23:19; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37704
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11; 2424.9; 17-MAY-2009 02:44:11; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;37704
12; 3084.5; 17-MAY-2009 02:55:11; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37704
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3; -1164.3; 17-MAY-2009 03:24:58; Dark ; 57.0; 90; 54Alp Peg ; 2.49; 11000;occ; 114; 0;37704
4; -159.9; 17-MAY-2009 03:41:42; Dark ; 43.5; 0; ; 0.00; 0;occ; 87; 0;37704
5; -29.5; 17-MAY-2009 03:43:53; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;37704
6; 923.3; 17-MAY-2009 03:59:46; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;37705
7; 1035.4; 17-MAY-2009 04:01:38; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;37705
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