

# GOMOS Daily Report 01-JUL-2009

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

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

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

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

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

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

#### [4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

#### [6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

## [Level 2 products](#)

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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	05JUL2009 04:39:44
Data source version	GOMOS/5.00
Start time of products	01JUL2009 00:10:28
Stop time of products	01JUL2009 05:59:18
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

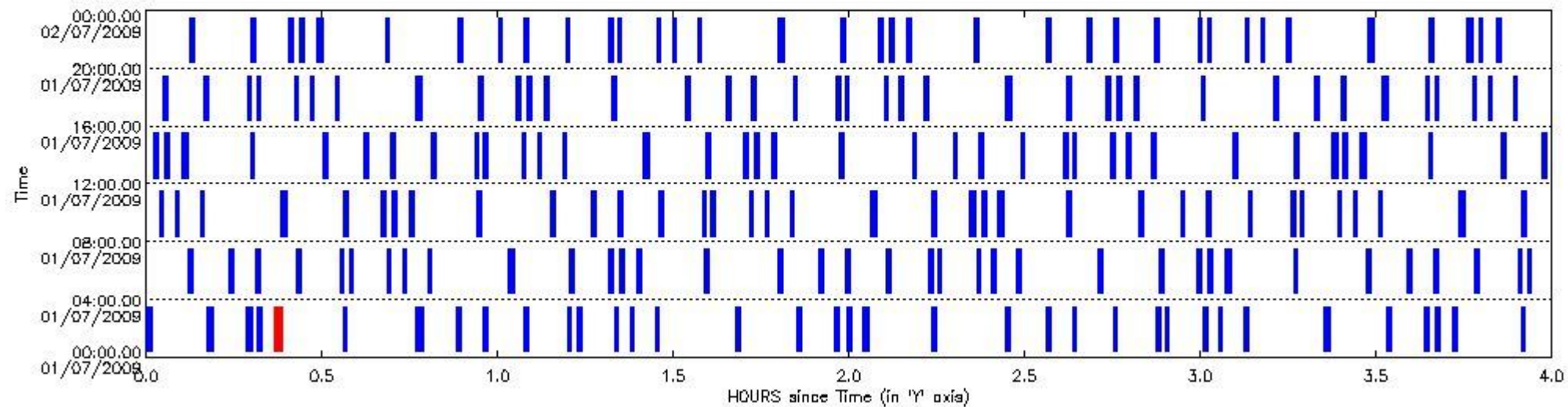
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

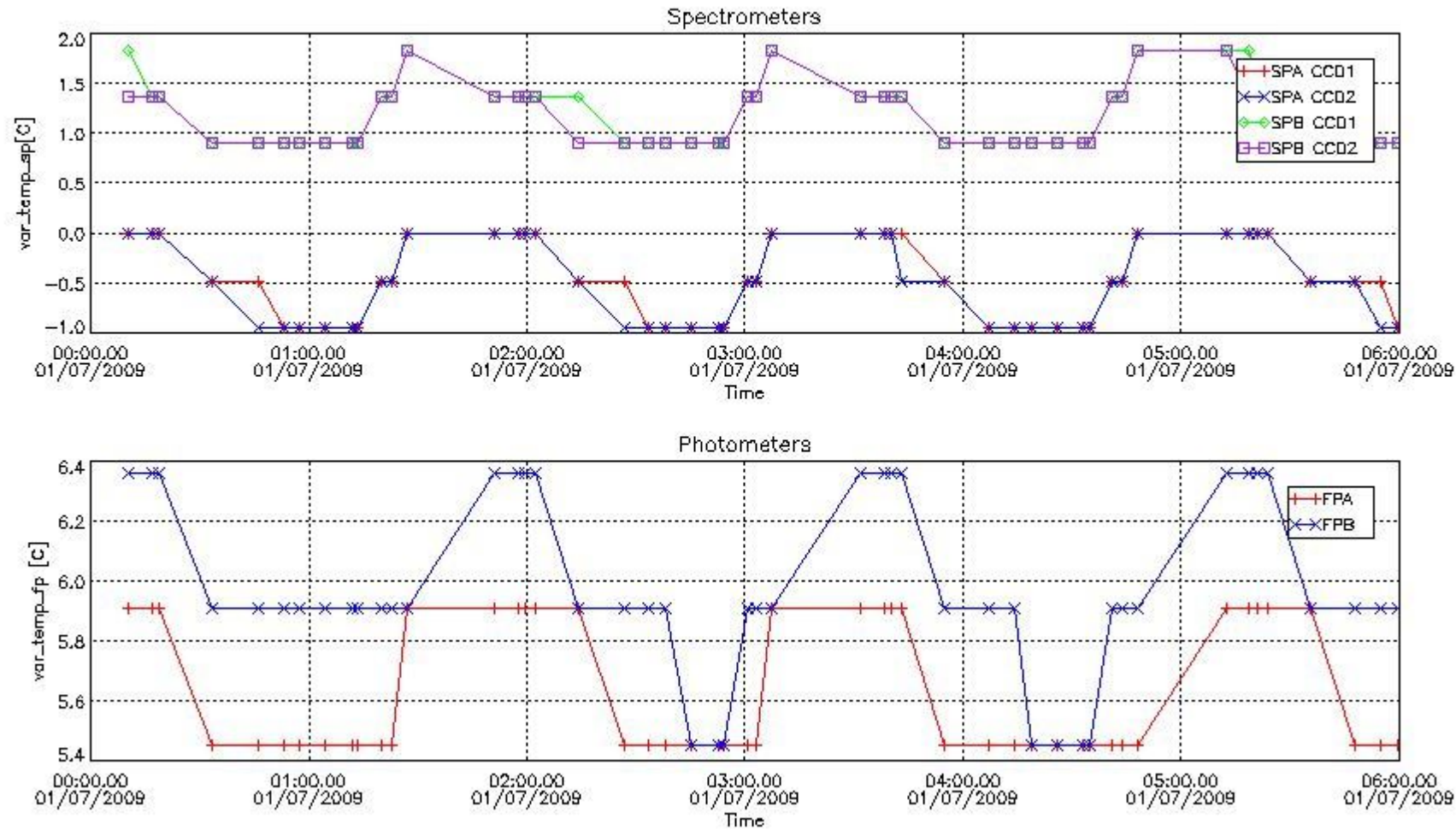
UTC start time	Star name	Star ID	Orbit
01-JUL-2009 00:21:45	GamGru	172	38347

### 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_1PNPDE20090701_001028_000000502080_00217_38347_8770.N1	01-JUL-2009 00:10:28	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	38347	No
2	GOM_TRA_1PNPDE20090701_001657_000000642080_00217_38347_8771.N1	01-JUL-2009 00:16:57	Straylight	63.500	63	Bet Gru	2.1500	2800.0	127	38347	No
3	GOM_TRA_1PNPDE20090701_001853_000000542080_00217_38347_8772.N1	01-JUL-2009 00:18:53	Straylight	54.000	31	Alp Gru	1.7340	15200.	108	38347	No
4	GOM_TRA_1PNPDE20090701_003331_000000452080_00217_38347_8773.N1	01-JUL-2009 00:33:31	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	38347	No
5	GOM_TRA_1PNPDE20090701_004602_000000722080_00217_38347_8774.N1	01-JUL-2009 00:46:02	Bright	72.000	168	17Zet Aql	2.9860	11000.	144	38347	No
6	GOM_TRA_1PNPDE20090701_005302_000000412080_00217_38347_8775.N1	01-JUL-2009 00:53:02	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	38347	No
7	GOM_TRA_1PNPDE20090701_005733_000000502080_00217_38347_8776.N1	01-JUL-2009 00:57:33	Bright	50.000	144	18Del Cyg	2.8600	11000.	100	38347	No
8	GOM_TRA_1PNPDE20090701_010434_000000442080_00217_38347_8777.N1	01-JUL-2009 01:04:34	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38347	No
9	GOM_TRA_1PNPDE20090701_011155_000000422080_00217_38347_8778.N1	01-JUL-2009 01:11:55	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	38347	No
10	GOM_TRA_1PNPDE20090701_011337_000000402080_00217_38347_8779.N1	01-JUL-2009 01:13:37	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	38347	No

11	GOM_TRA_1PNPDE20090701_011957_000000362080_00217_38347_8780.N1	01-JUL-2009 01:19:57	Bright	36.000	73	57Gam1And	2.2600	13100.	72	38347	No
12	GOM_TRA_1PNPDE20090701_012235_000000362080_00217_38347_8781.N1	01-JUL-2009 01:22:35	Twilight	36.000	173	4Bet Tri	3.0040	8900.0	72	38347	No
13	GOM_TRA_1PNPDE20090701_012650_000000392080_00217_38347_8782.N1	01-JUL-2009 01:26:50	Dark	38.500	50	13Alp Ari	2.0070	4250.0	77	38347	No
14	GOM_TRA_1PNPDE20090701_015105_000000482080_00218_38348_8929.N1	01-JUL-2009 01:51:05	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	38348	No
15	GOM_TRA_1PNPDE20090701_015734_000000512080_00218_38348_8930.N1	01-JUL-2009 01:57:34	Straylight	50.500	63	Bet Gru	2.1500	2800.0	101	38348	No
16	GOM_TRA_1PNPDE20090701_015930_000000522080_00218_38348_8931.N1	01-JUL-2009 01:59:30	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38348	No
17	GOM_TRA_1PNPDE20090701_020224_000000572080_00218_38348_8932.N1	01-JUL-2009 02:02:24	Straylight	57.000	172	Gam Gru	3.0030	13100.	114	38348	No
18	GOM_TRA_1PNPDE20090701_021407_000000442080_00218_38348_8933.N1	01-JUL-2009 02:14:07	Bright	43.500	155	41Pi Sgr	2.9000	6600.0	87	38348	No
19	GOM_TRA_1PNPDE20090701_022637_000000462080_00218_38348_8934.N1	01-JUL-2009 02:26:37	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	38348	No
20	GOM_TRA_1PNPDE20090701_023337_000000482080_00218_38348_8935.N1	01-JUL-2009 02:33:37	Bright	47.500	5	3Alp Lyr	0.033000	11000.	95	38348	No
21	GOM_TRA_1PNPDE20090701_023808_000000452080_00218_38348_8936.N1	01-JUL-2009 02:38:08	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	38348	No
22	GOM_TRA_1PNPDE20090701_024509_000000402080_00218_38348_8937.N1	01-JUL-2009 02:45:09	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38348	No
23	GOM_TRA_1PNPDE20090701_025231_000000392080_00218_38348_8938.N1	01-JUL-2009 02:52:31	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	38348	No
24	GOM_TRA_1PNPDE20090701_025403_000000342080_00218_38348_9092.N1	01-JUL-2009 02:54:03	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	38348	No
25	GOM_TRA_1PNPDE20090701_030033_000000352080_00218_38348_9093.N1	01-JUL-2009 03:00:33	Bright	34.500	73	57Gam1And	2.2600	13100.	69	38348	No
26	GOM_TRA_1PNPDE20090701_030311_000000352080_00218_38348_9094.N1	01-JUL-2009 03:03:11	Twilight	35.000	173	4Bet Tri	3.0040	8900.0	70	38348	No
27	GOM_TRA_1PNPDE20090701_030726_000000402080_00218_38348_9095.N1	01-JUL-2009 03:07:26	Dark	39.500	50	13Alp Ari	2.0070	4250.0	79	38348	No
28	GOM_TRA_1PNPDE20090701_033142_000000482080_00219_38349_9096.N1	01-JUL-2009 03:31:42	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	38349	No
29	GOM_TRA_1PNPDE20090701_033811_000000532080_00219_38349_9097.N1	01-JUL-2009 03:38:11	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	38349	No
30	GOM_TRA_1PNPDE20090701_034007_000000512080_00219_38349_9098.N1	01-JUL-2009 03:40:07	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	38349	No
31	GOM_TRA_1PNPDE20090701_034301_000000562080_00219_38349_9099.N1	01-JUL-2009 03:43:01	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	38349	No
32	GOM_TRA_1PNPDE20090701_035443_000000442080_00219_38349_9100.N1	01-JUL-2009 03:54:43	Bright	44.000	155	41Pi Sgr	2.9000	6600.0	88	38349	No
33	GOM_TRA_1PNPDE20090701_040713_000000512080_00219_38349_9101.N1	01-JUL-2009 04:07:13	Bright	51.000	168	17Zet Aql	2.9860	11000.	102	38349	No
34	GOM_TRA_1PNPDE20090701_041413_000000402080_00219_38349_9102.N1	01-JUL-2009 04:14:13	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	38349	No
35	GOM_TRA_1PNPDE20090701_041843_000000492080_00219_38349_9103.N1	01-JUL-2009 04:18:43	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	38349	No
36	GOM_TRA_1PNPDE20090701_042544_000000442080_00219_38349_9104.N1	01-JUL-2009 04:25:44	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38349	No
37	GOM_TRA_1PNPDE20090701_043306_000000412080_00219_38349_9268.N1	01-JUL-2009 04:33:06	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	38349	No
38	GOM_TRA_1PNPDE20090701_043439_000000362080_00219_38349_9269.N1	01-JUL-2009 04:34:39	Bright	35.500	110	37Del Cas	2.6780	8900.0	71	38349	No
39	GOM_TRA_1PNPDE20090701_044109_000000372080_00219_38349_9270.N1	01-JUL-2009 04:41:09	Bright	36.500	73	57Gam1And	2.2600	13100.	73	38349	No
40	GOM_TRA_1PNPDE20090701_044347_000000372080_00219_38349_9271.N1	01-JUL-2009 04:43:47	Twilight	36.500	173	4Bet Tri	3.0040	8900.0	73	38349	No
41	GOM_TRA_1PNPDE20090701_044803_000000402080_00219_38349_9272.N1	01-JUL-2009 04:48:03	Dark	39.500	50	13Alp Ari	2.0070	4250.0	79	38349	No
42	GOM_TRA_1PNPDE20090701_051219_000000492080_00220_38350_9273.N1	01-JUL-2009 05:12:19	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	38350	No
43	GOM_TRA_1PNPDE20090701_051848_000000522080_00220_38350_9274.N1	01-JUL-2009 05:18:48	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	38350	No
44	GOM_TRA_1PNPDE20090701_052044_000000492080_00220_38350_9275.N1	01-JUL-2009 05:20:44	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38350	No
45	GOM_TRA_1PNPDE20090701_052338_000000582080_00220_38350_9276.N1	01-JUL-2009 05:23:38	Straylight	57.500	172	Gam Gru	3.0030	13100.	115	38350	No
46	GOM_TRA_1PNPDE20090701_053520_000000432080_00220_38350_9277.N1	01-JUL-2009 05:35:20	Bright	43.000	155	41Pi Sgr	2.9000	6600.0	86	38350	No
47	GOM_TRA_1PNPDE20090701_054748_000000502080_00220_38350_9278.N1	01-JUL-2009 05:47:48	Bright	49.500	168	17Zet Aql	2.9860	11000.	99	38350	No
48	GOM_TRA_1PNPDE20090701_055448_000000462080_00220_38350_9279.N1	01-JUL-2009 05:54:48	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	38350	No
49	GOM_TRA_1PNPDE20090701_055918_000000492080_00220_38350_9280.N1	01-JUL-2009 05:59:18	Bright	49.000	144	18Del Cyg	2.8600	11000.	98	38350	No

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



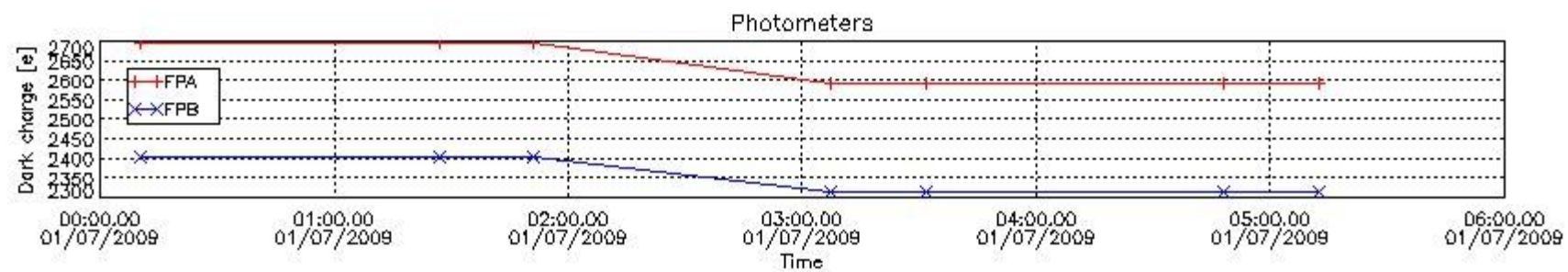
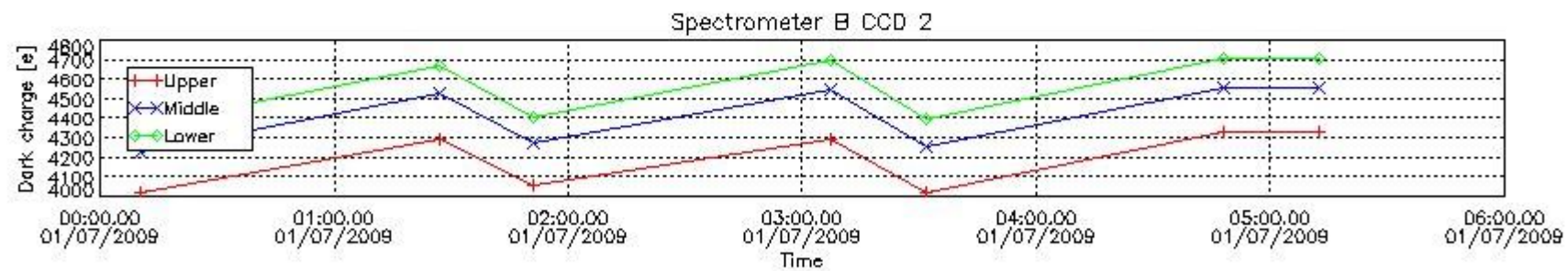
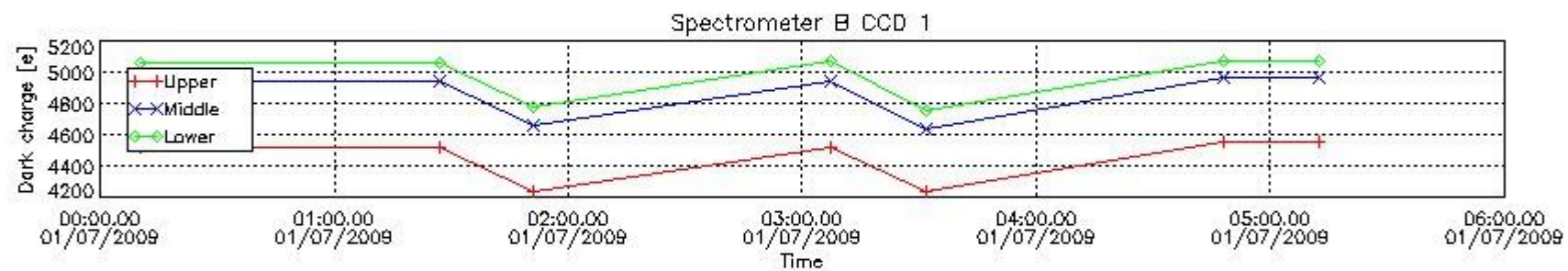
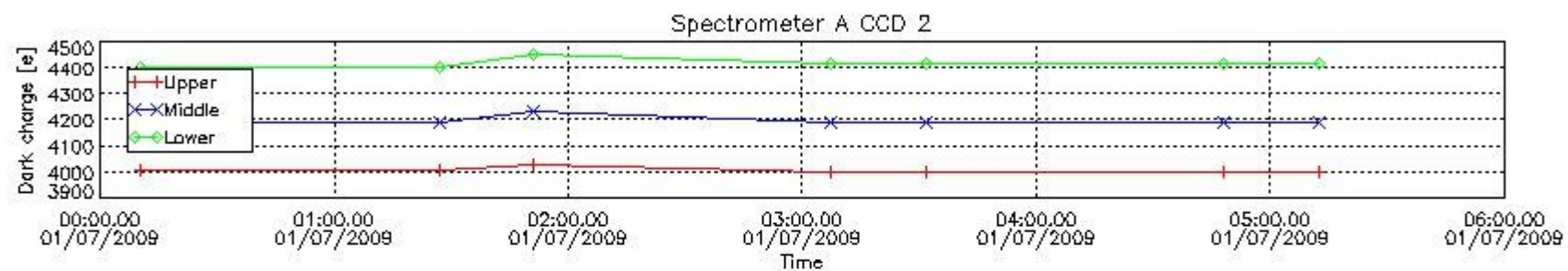
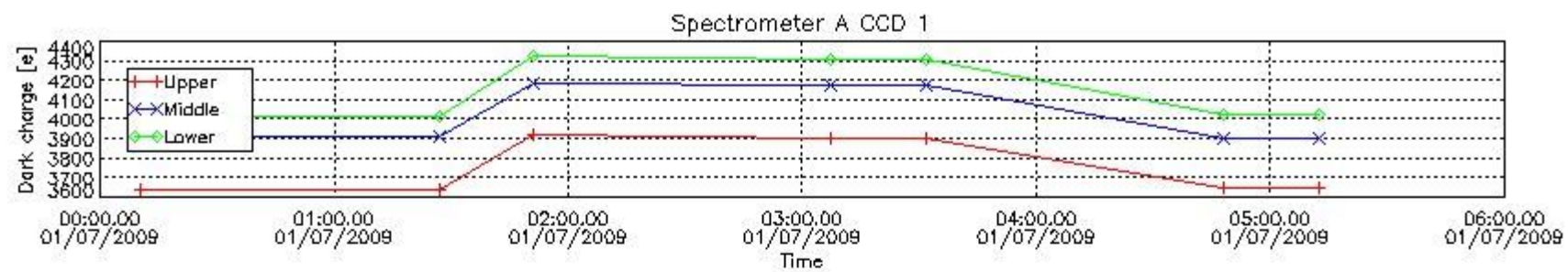
#### 4. Overview of dark signal processing per product

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



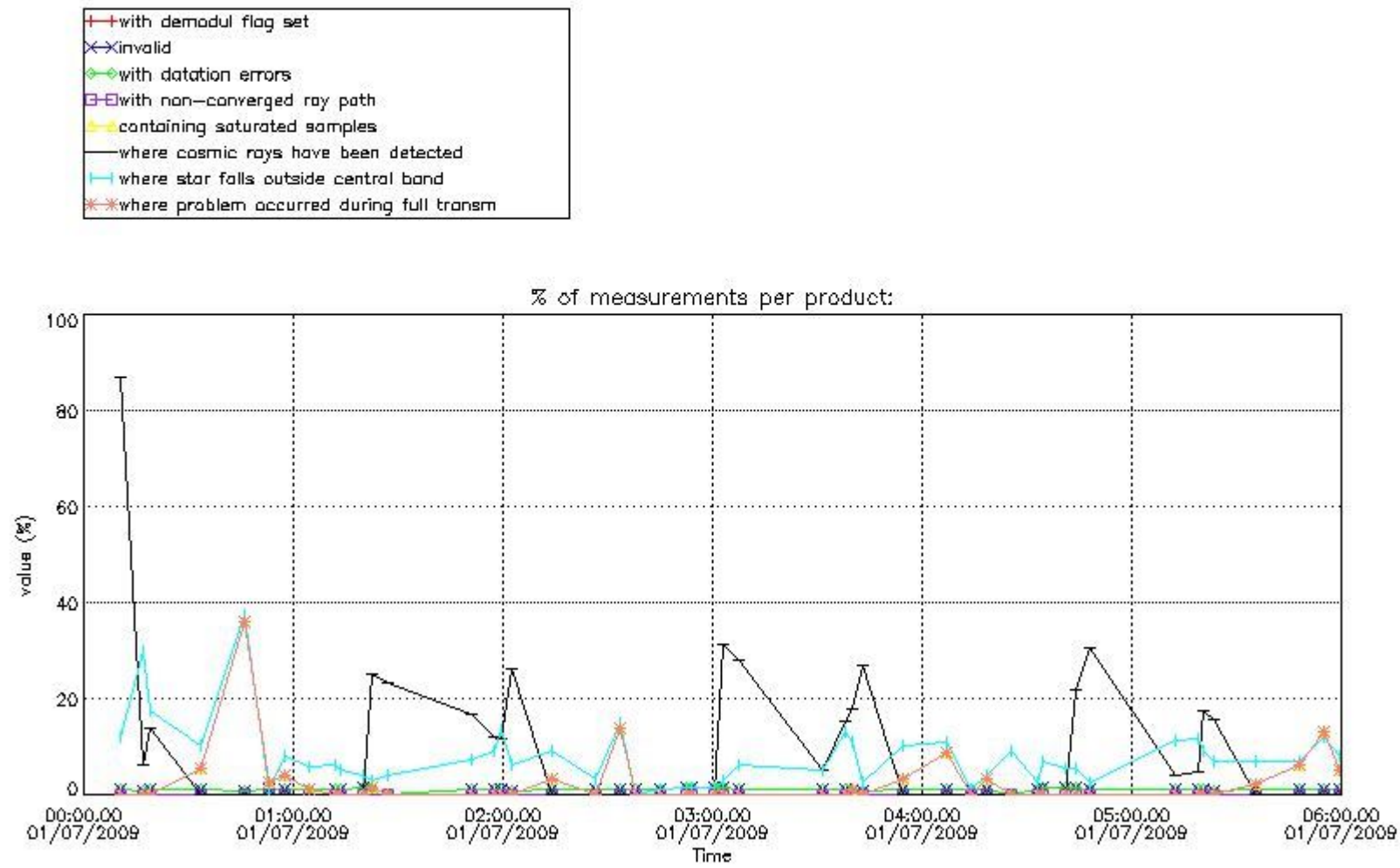
## 5. Demodulation flag and quality information monitoring

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.

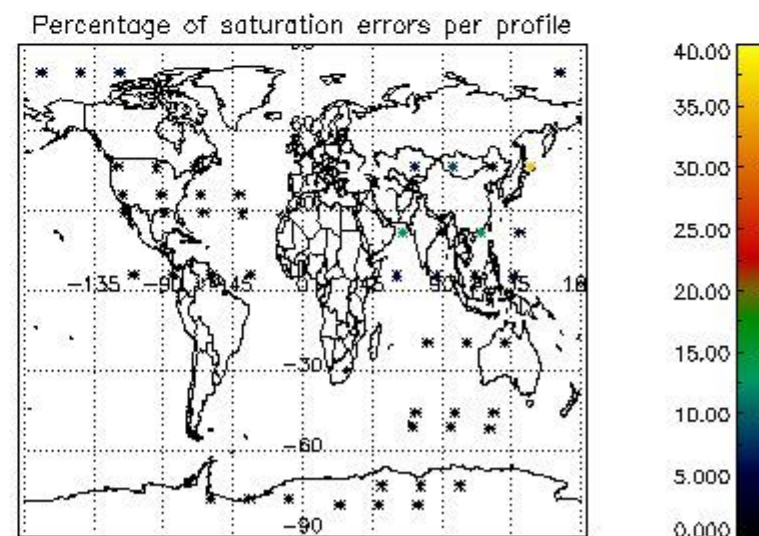
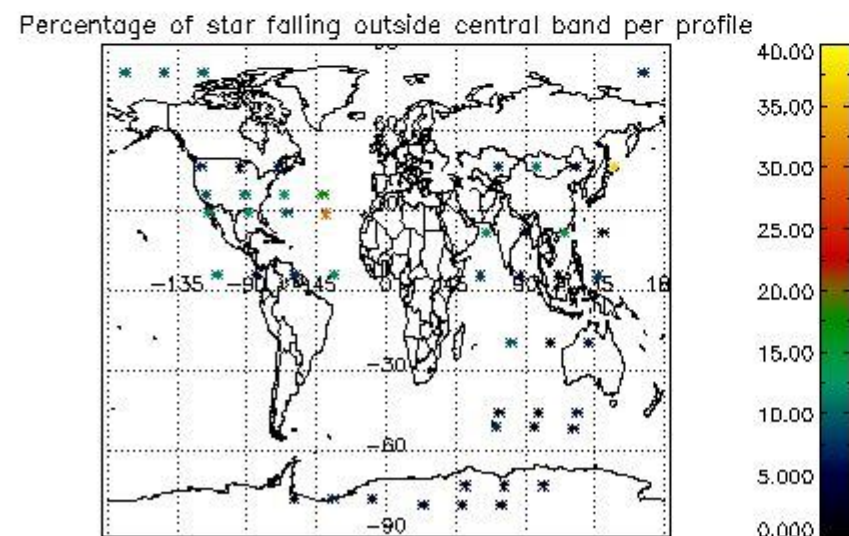
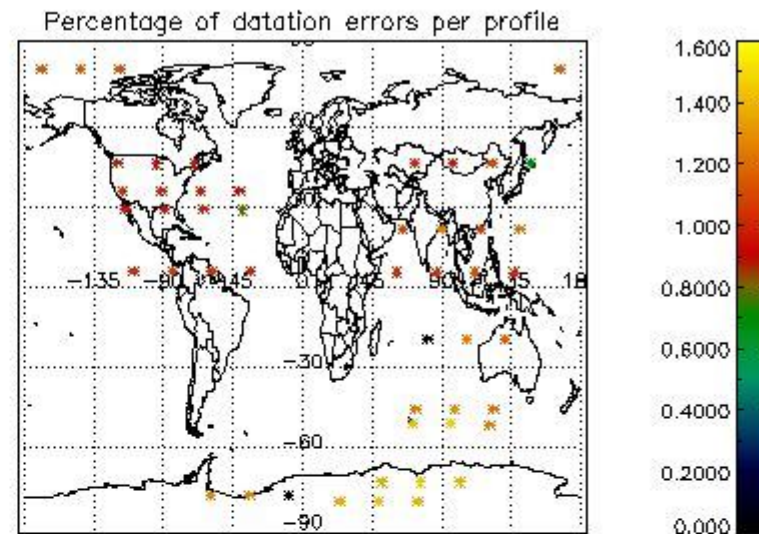
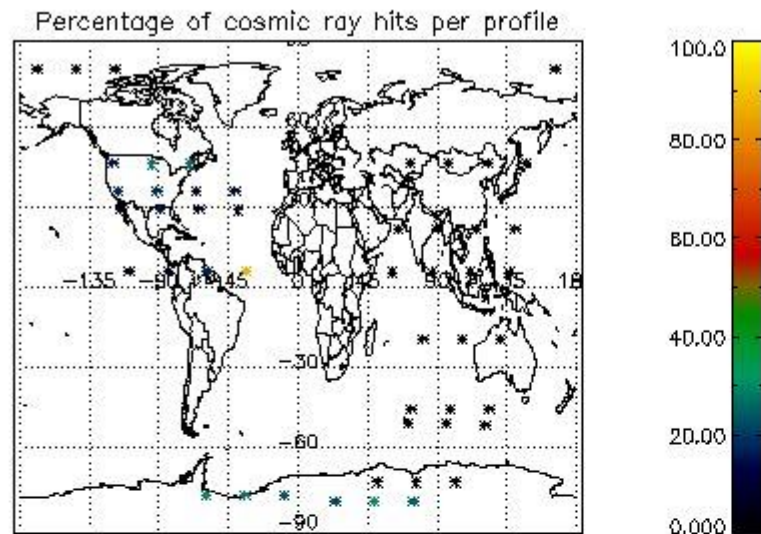
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.4490 %
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)



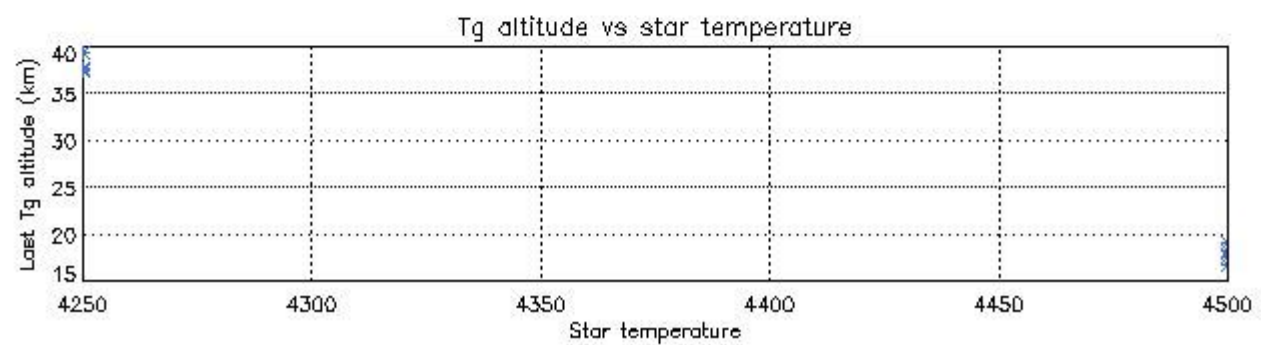
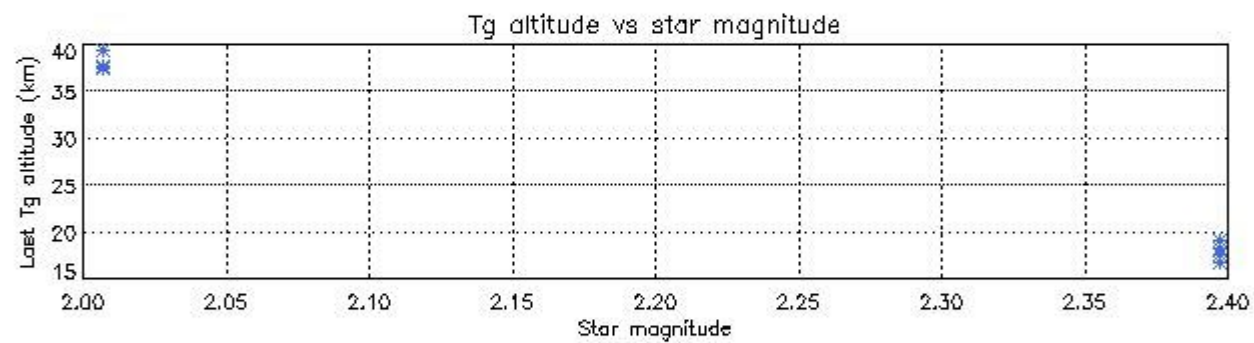
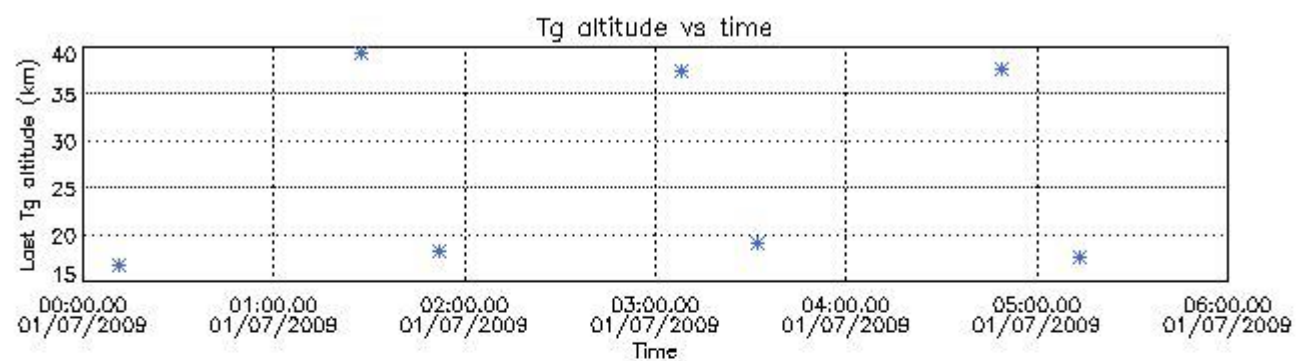
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	26.512	26.221	NaN
St. deviation:	10.861	9.2993	NaN
Maximum:	39.293	42.839	NaN
Minimum:	16.637	3.5221	NaN
Number of data:	7.0000	28.000	NaN

### 6.2 Plot for DARK limb products

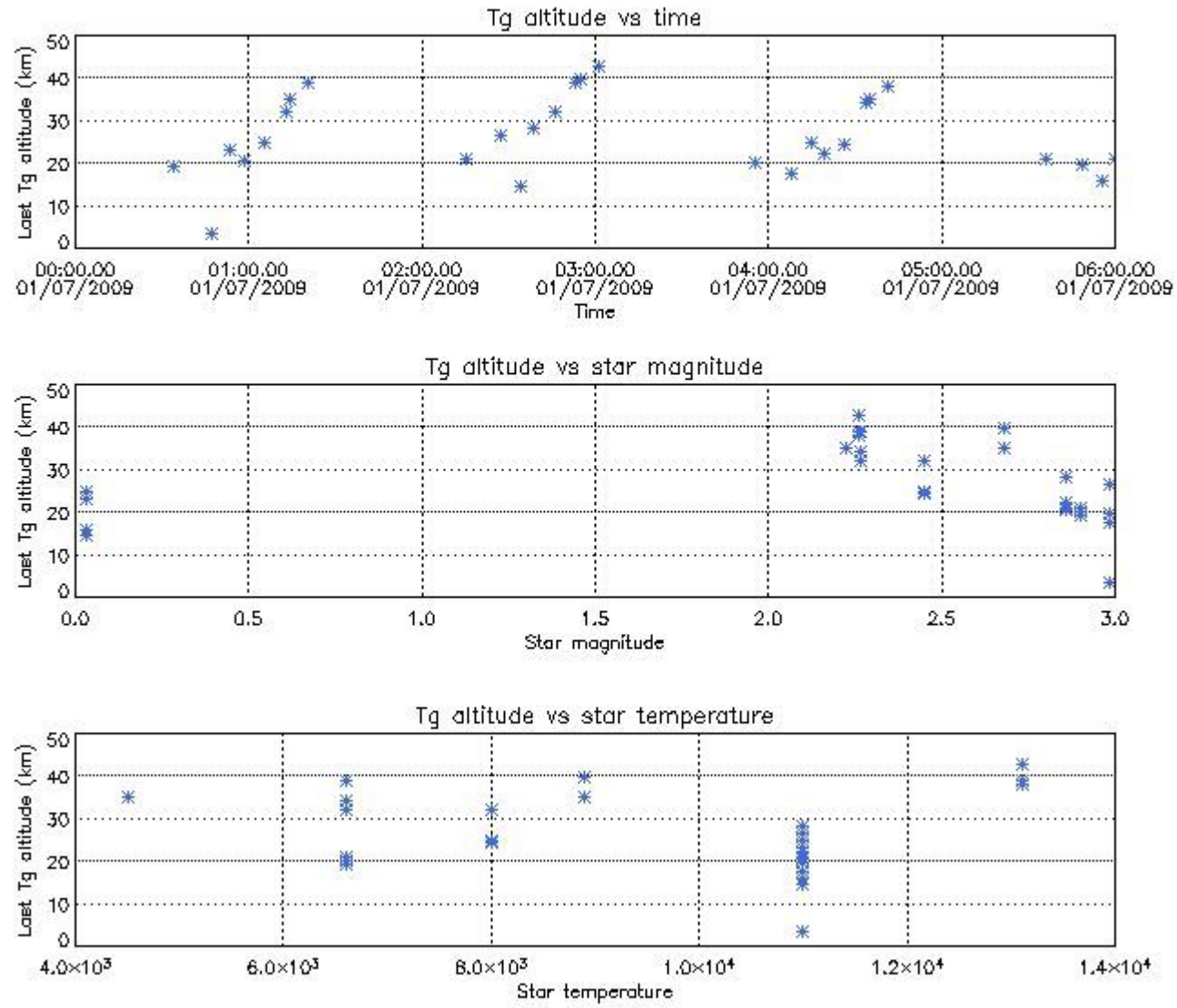
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

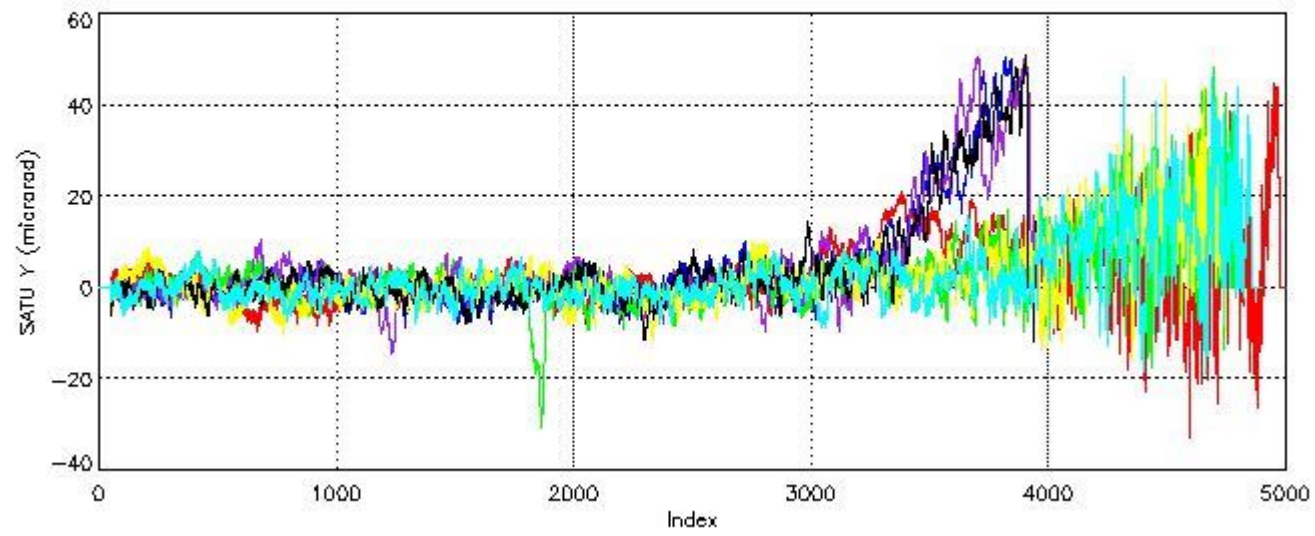
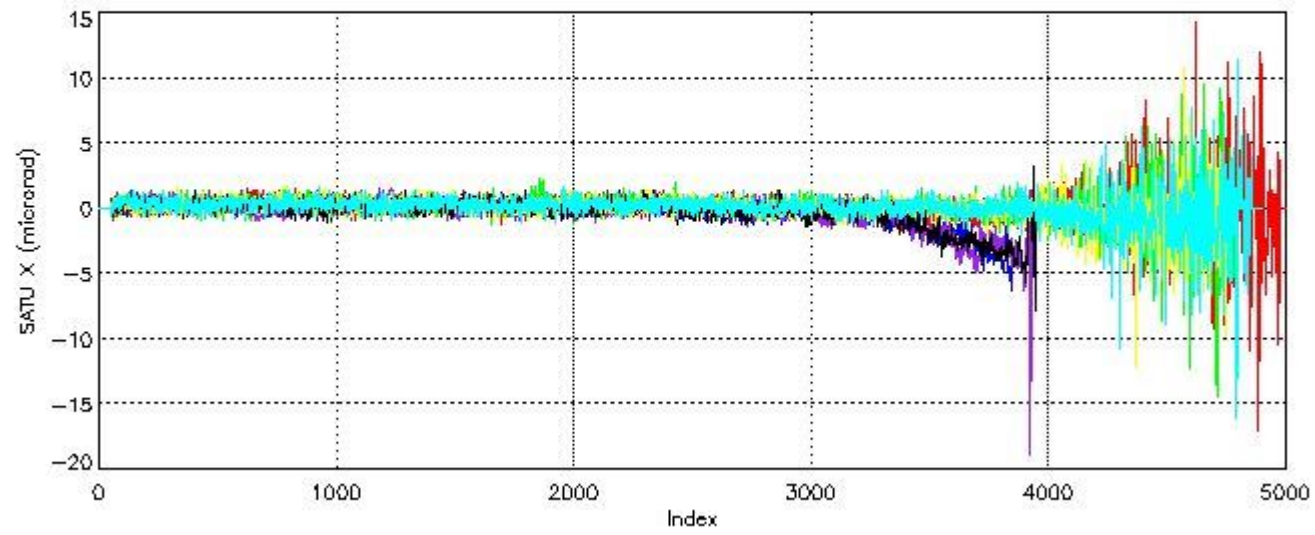


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.22591	-0.27096	0.30369	-0.39298
St. deviation:	0.38374	2.6468	0.99050	2.9026
Maximum:	1.7000	10.500	6.3000	12.200
Minimum:	-1.1000	-10.400	-5.7000	-13.200

Number of data:	7950.0	7950.0	30050.	30050.
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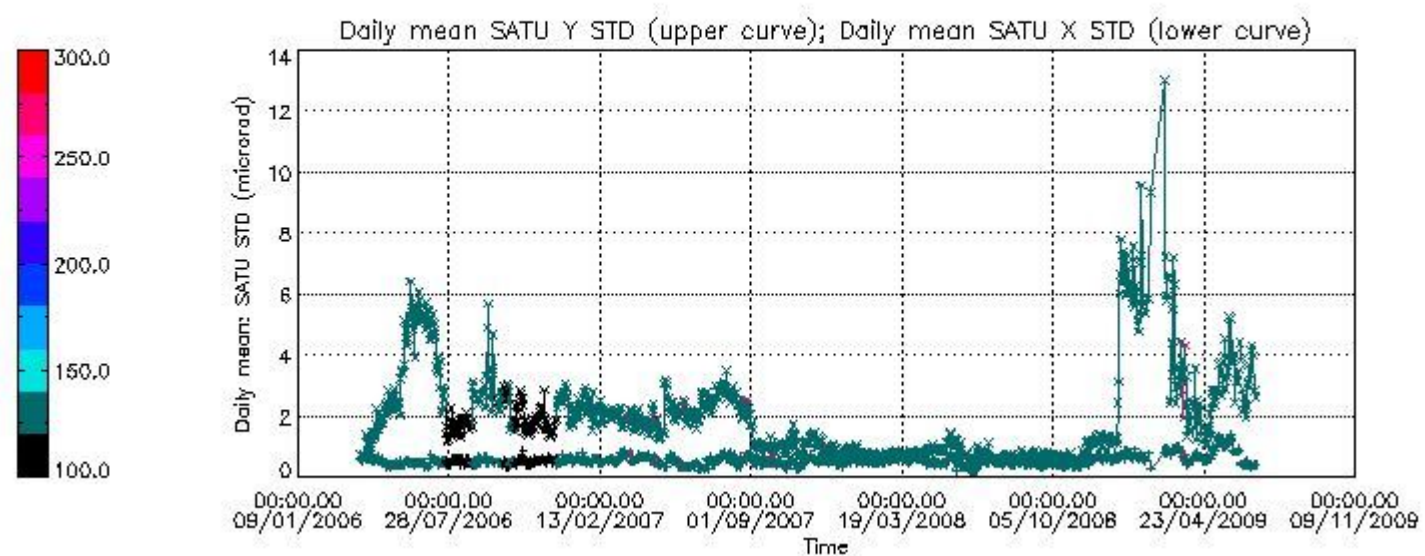
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

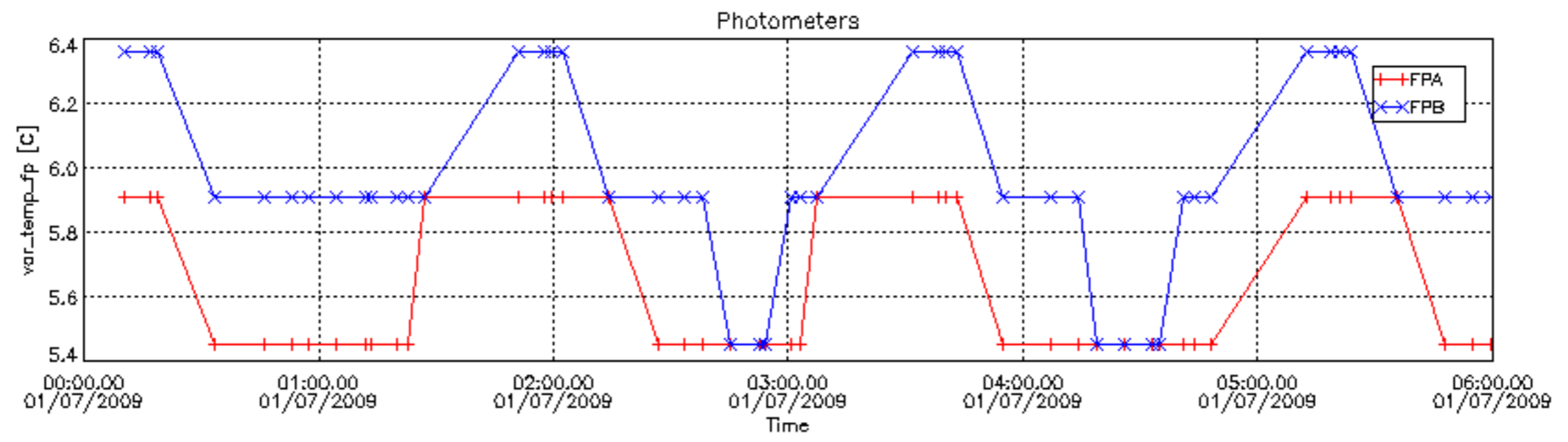
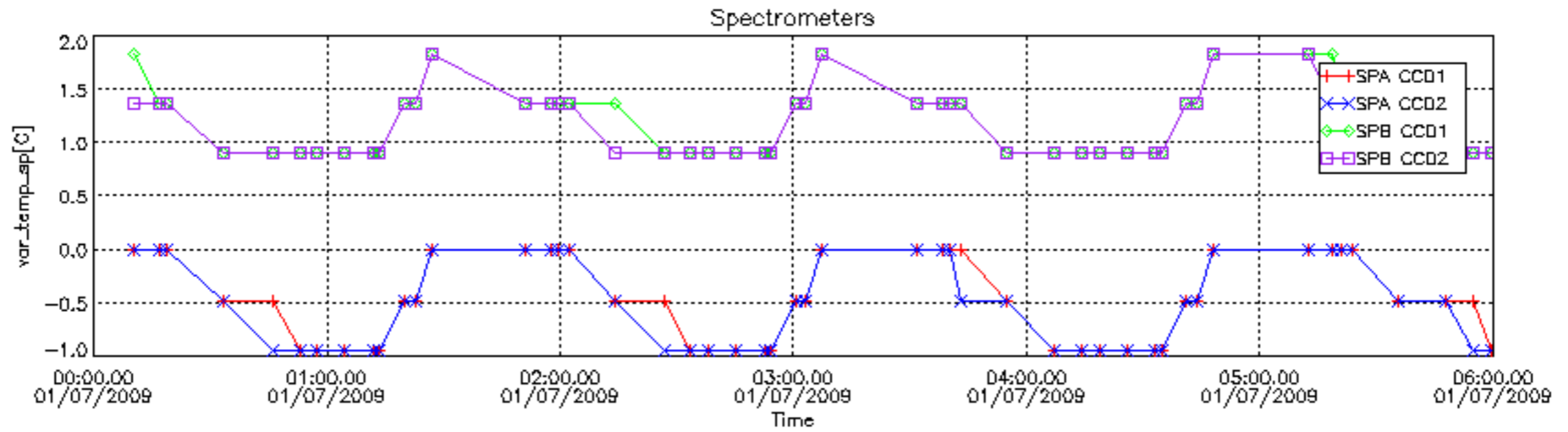


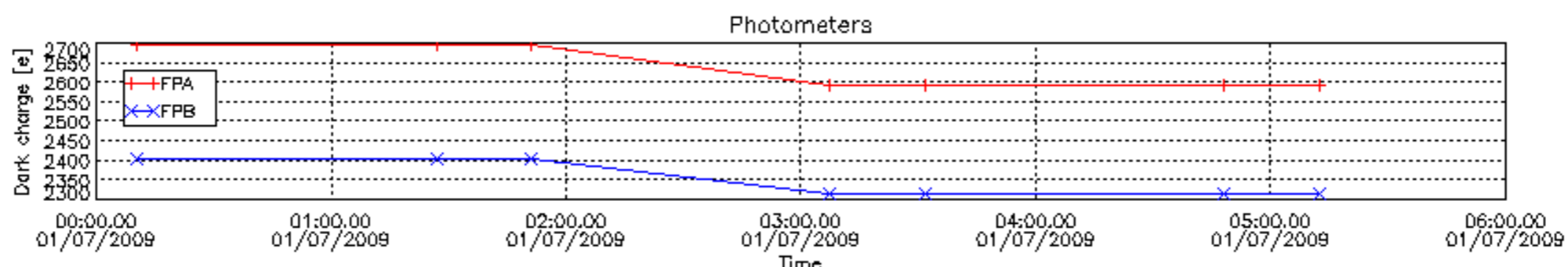
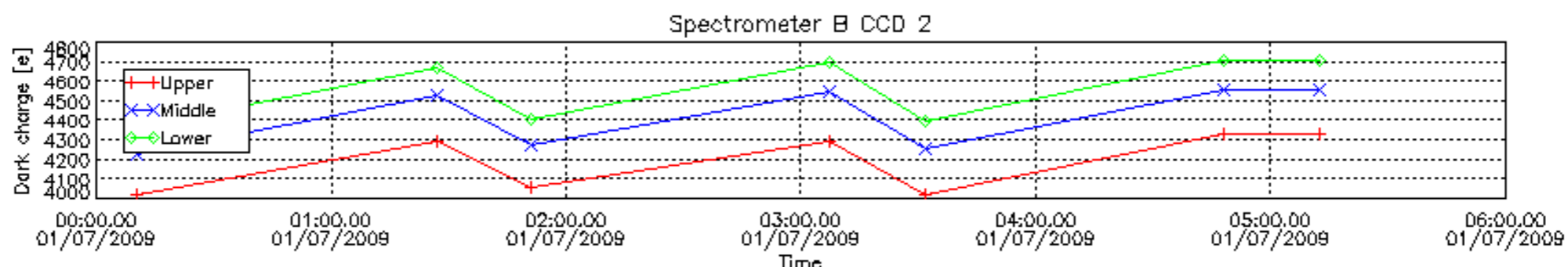
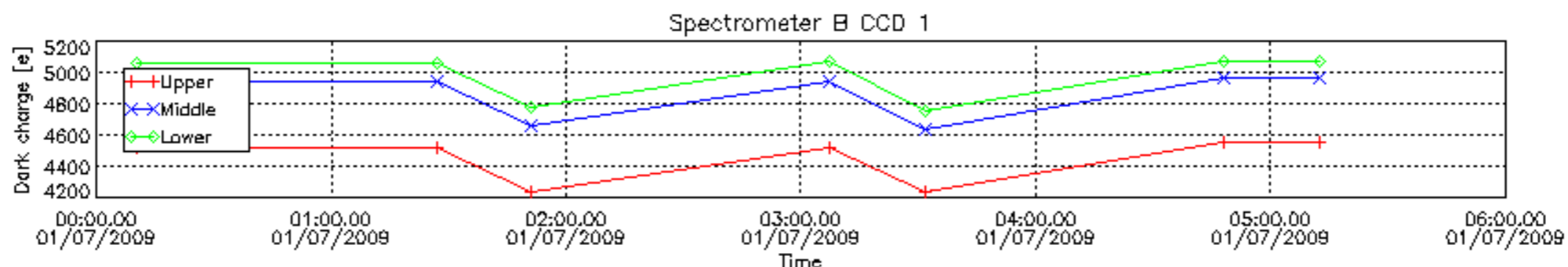
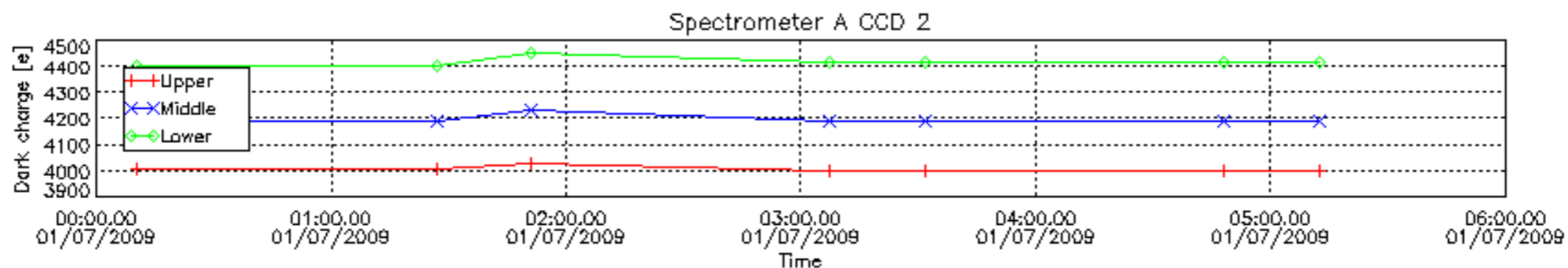
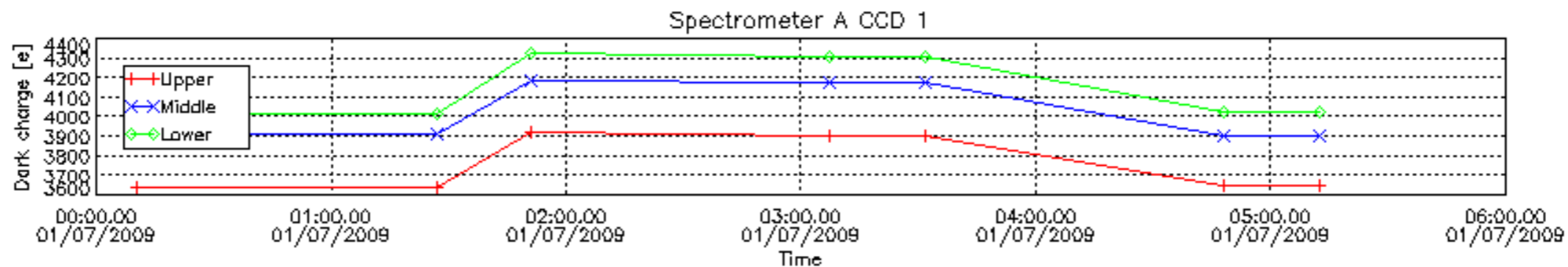
### 8. Auxiliary Data Files used for the production reported in section 2.4

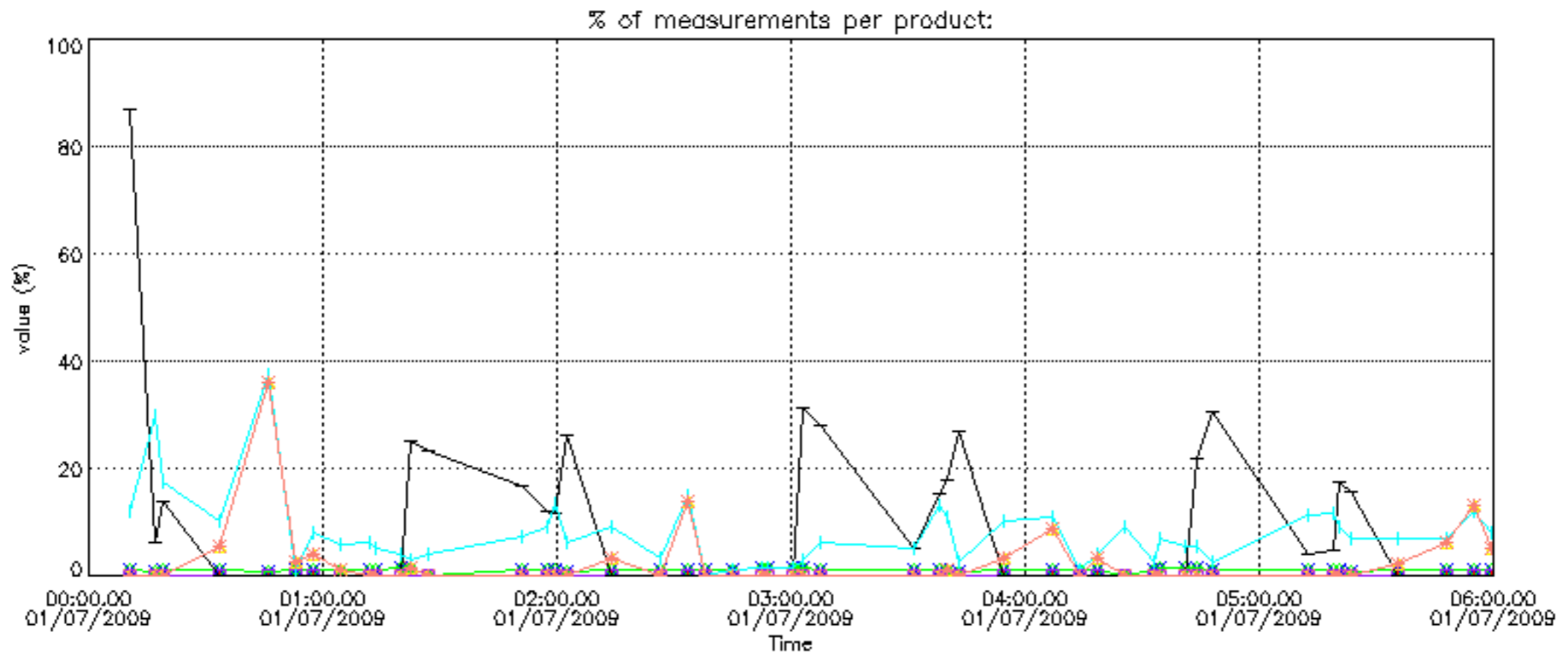
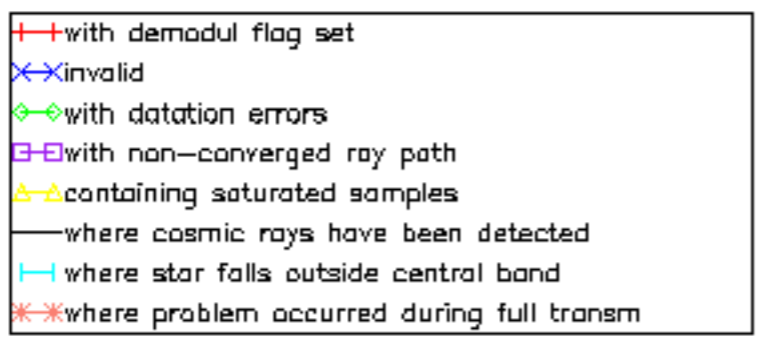
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-JUL-2009 00:10:28
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090623_092031_20090621_000000_20100101_000000	1	01-JUL-2009 00:10:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-JUL-2009 00:10:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-JUL-2009 00:10:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-JUL-2009 00:10:28
ECMWF_FILE	AUX_ECF_AXNECM20090630_064112_20090630_210000_20090701_090000	1	01-JUL-2009 00:10:28
OPTIONAL_ECMWF_FILE	MISSING	1	01-JUL-2009 00:10:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090630_221347_000057382080_00215_38345_8259.N1	1	01-JUL-2009 00:10:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090630_235444_000057382080_00216_38346_8260.N1	14	01-JUL-2009 01:51:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090701_013541_000041442080_00217_38347_8261.N1	24	01-JUL-2009 02:54:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090701_025004_000057382080_00218_38348_8262.N1	37	01-JUL-2009 04:33:06

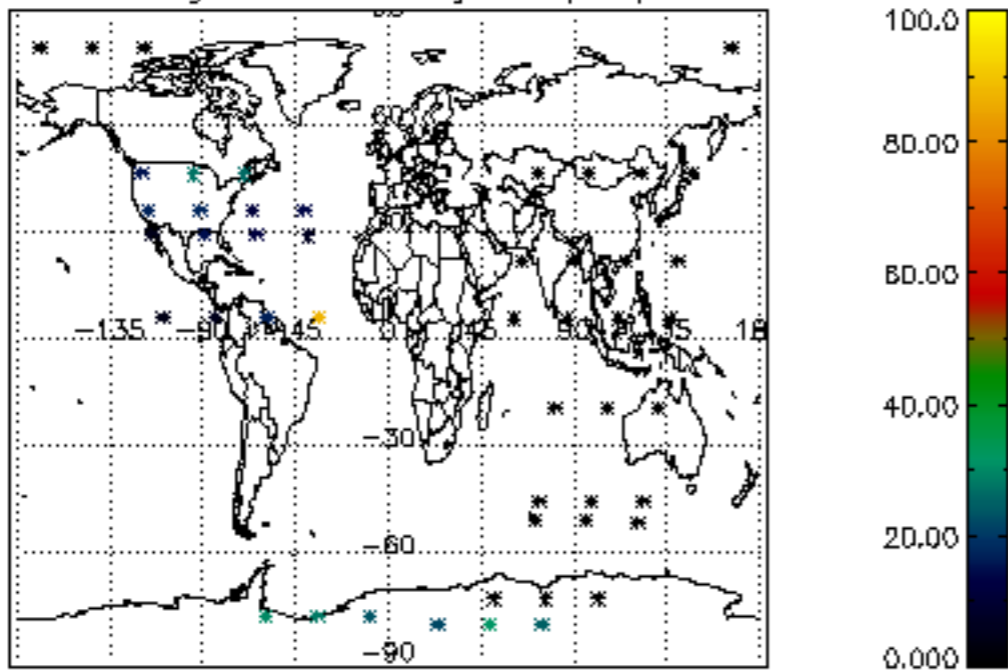




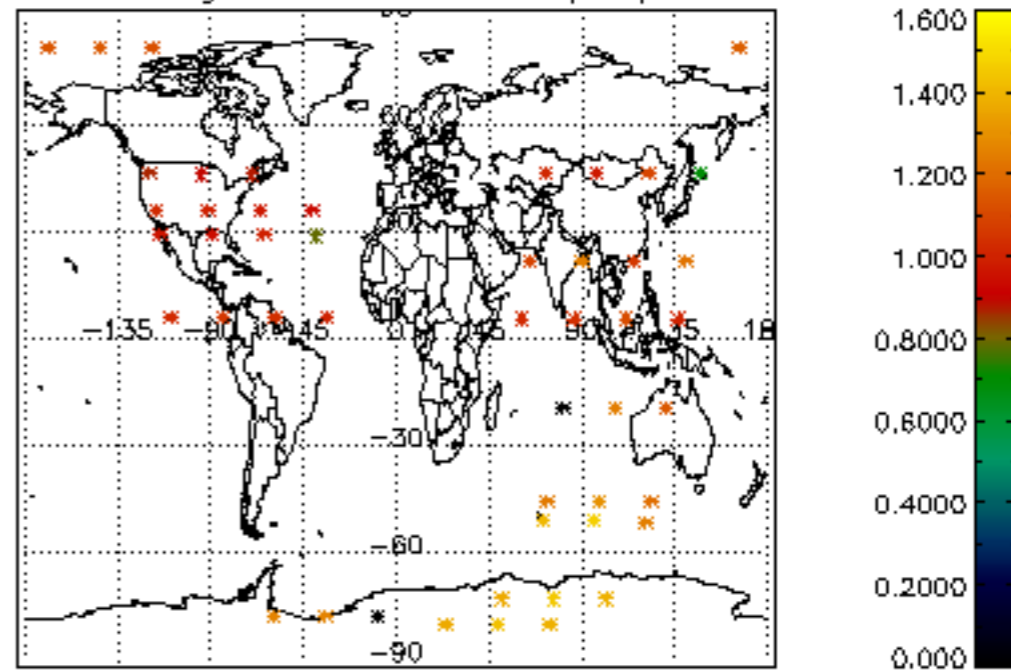




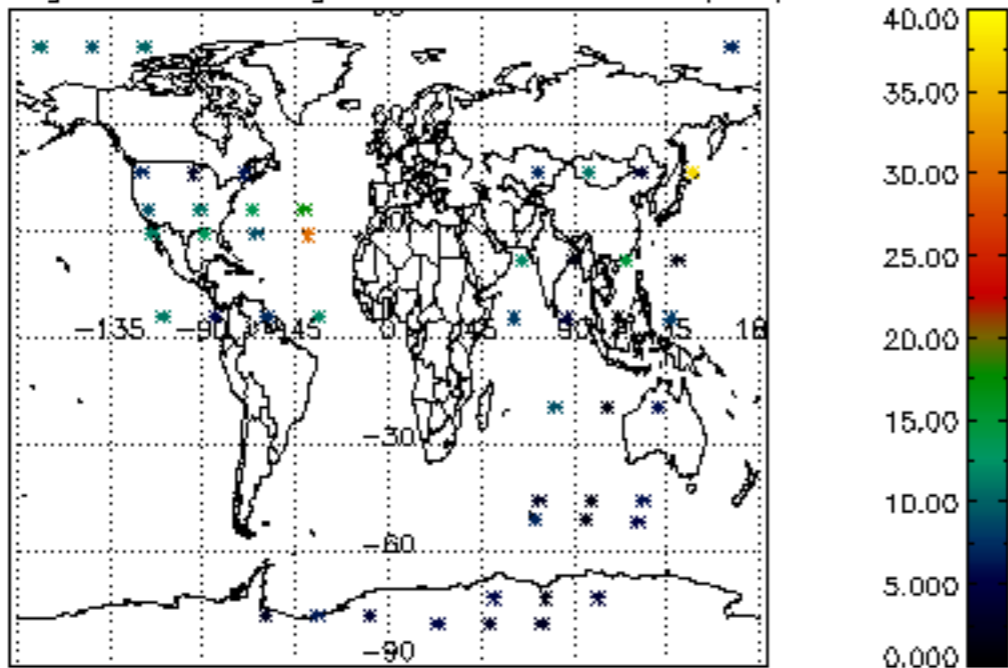
Percentage of cosmic ray hits per profile



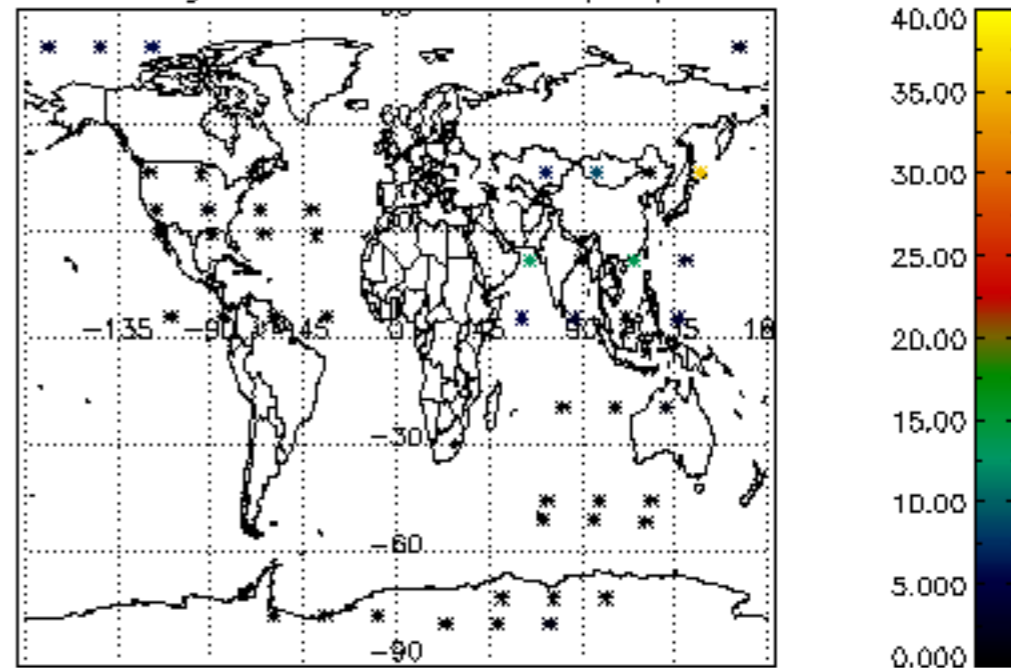
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

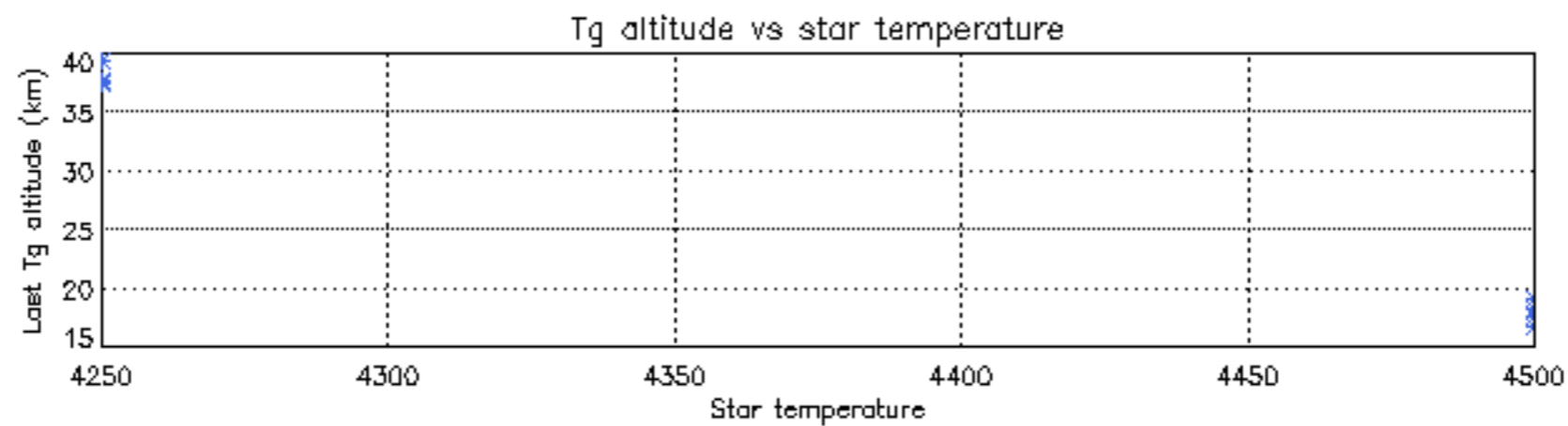
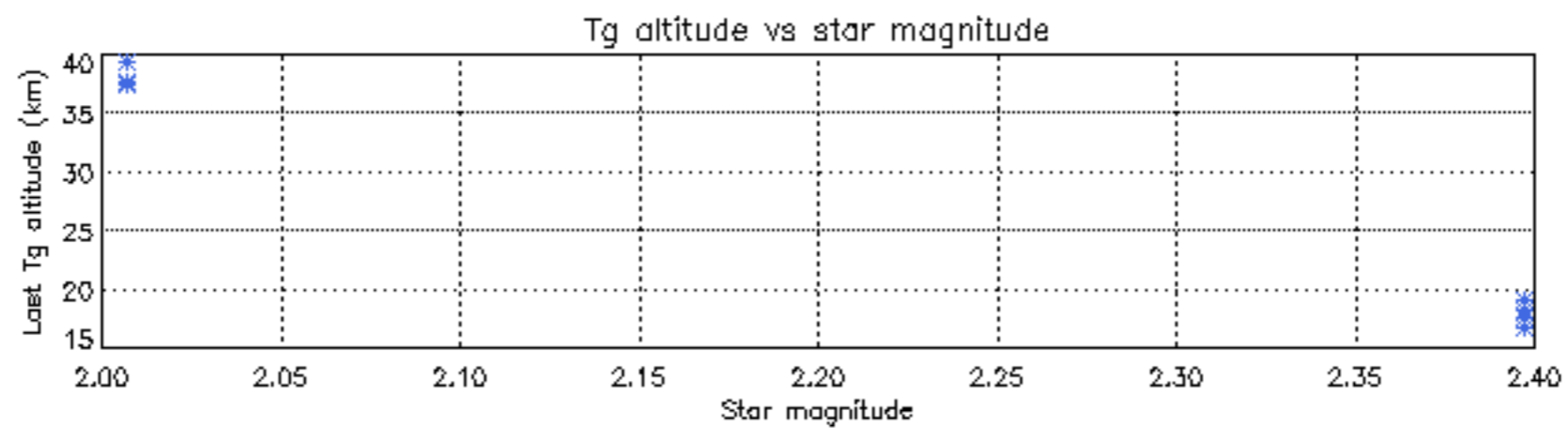
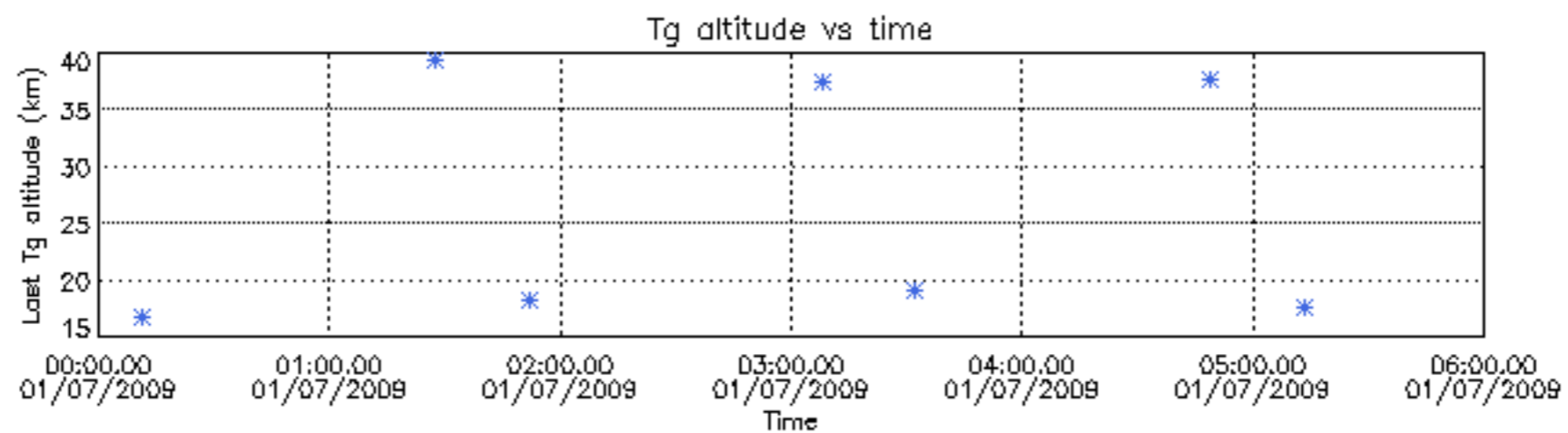


Percentage of saturation errors per profile

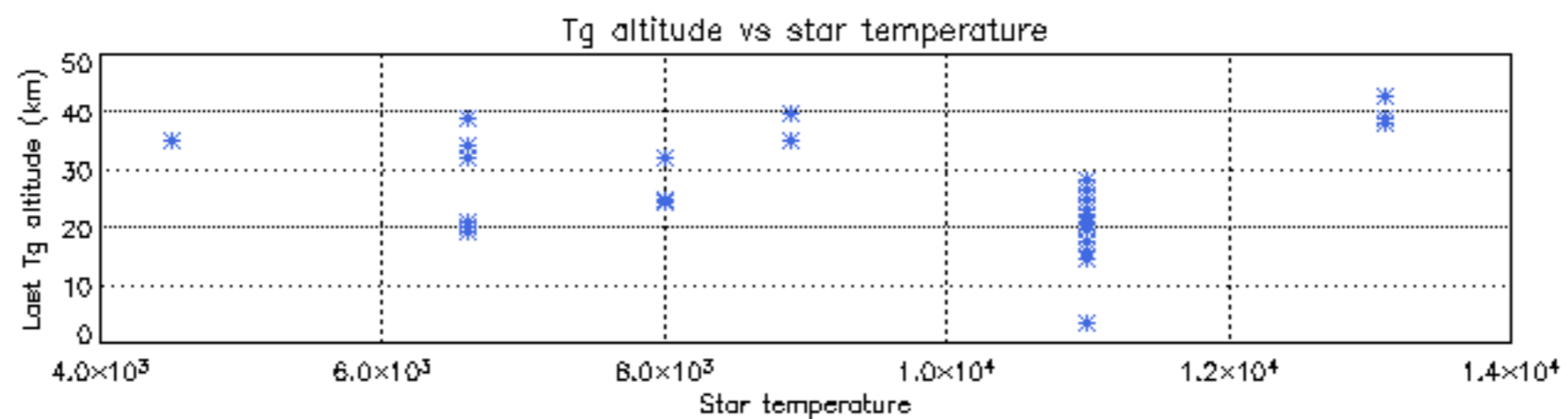
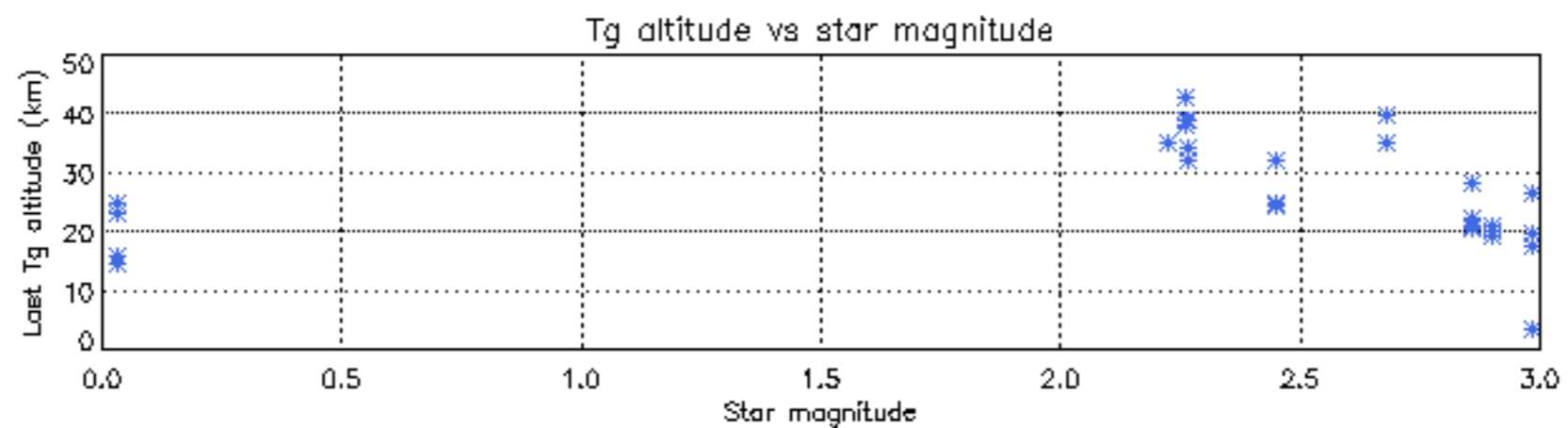
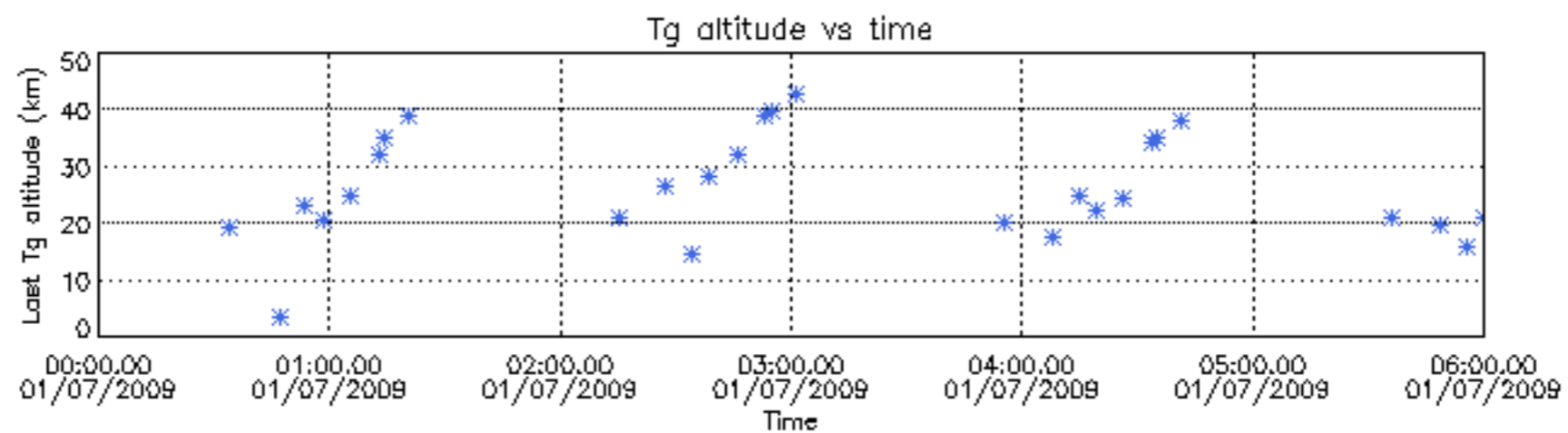


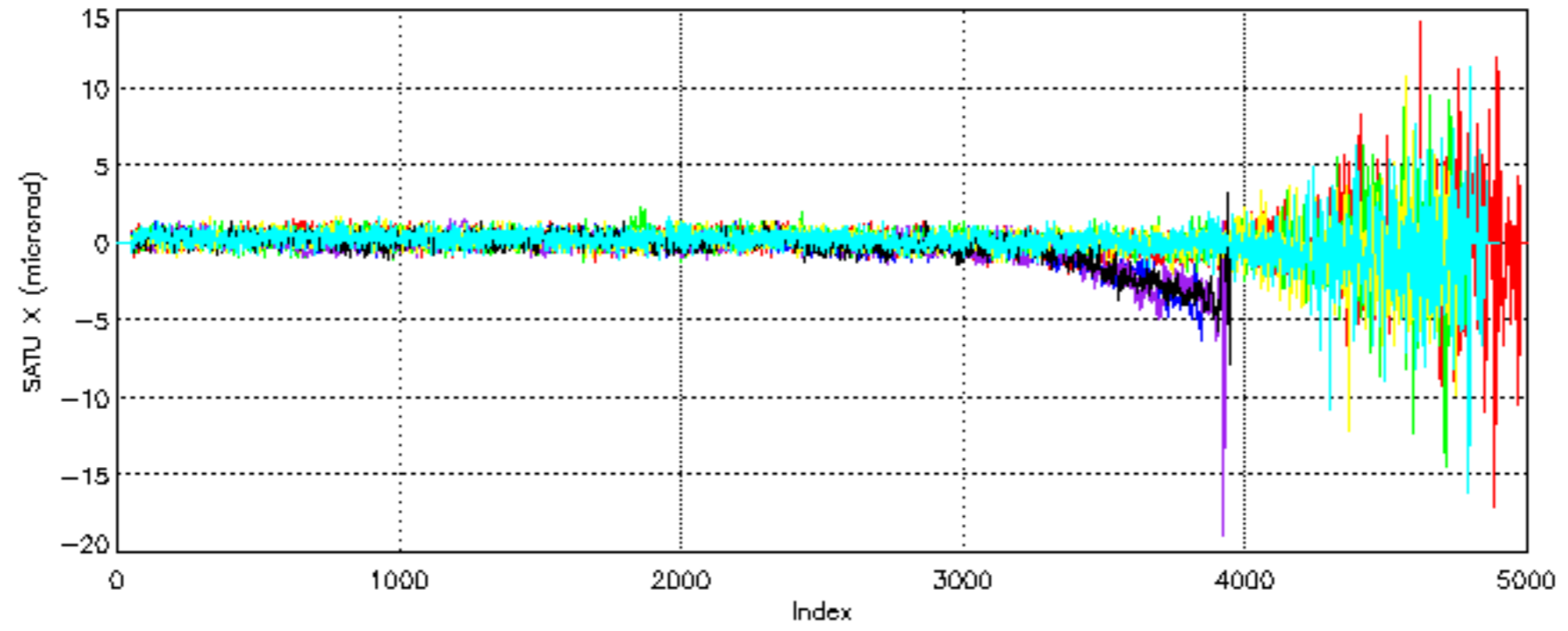


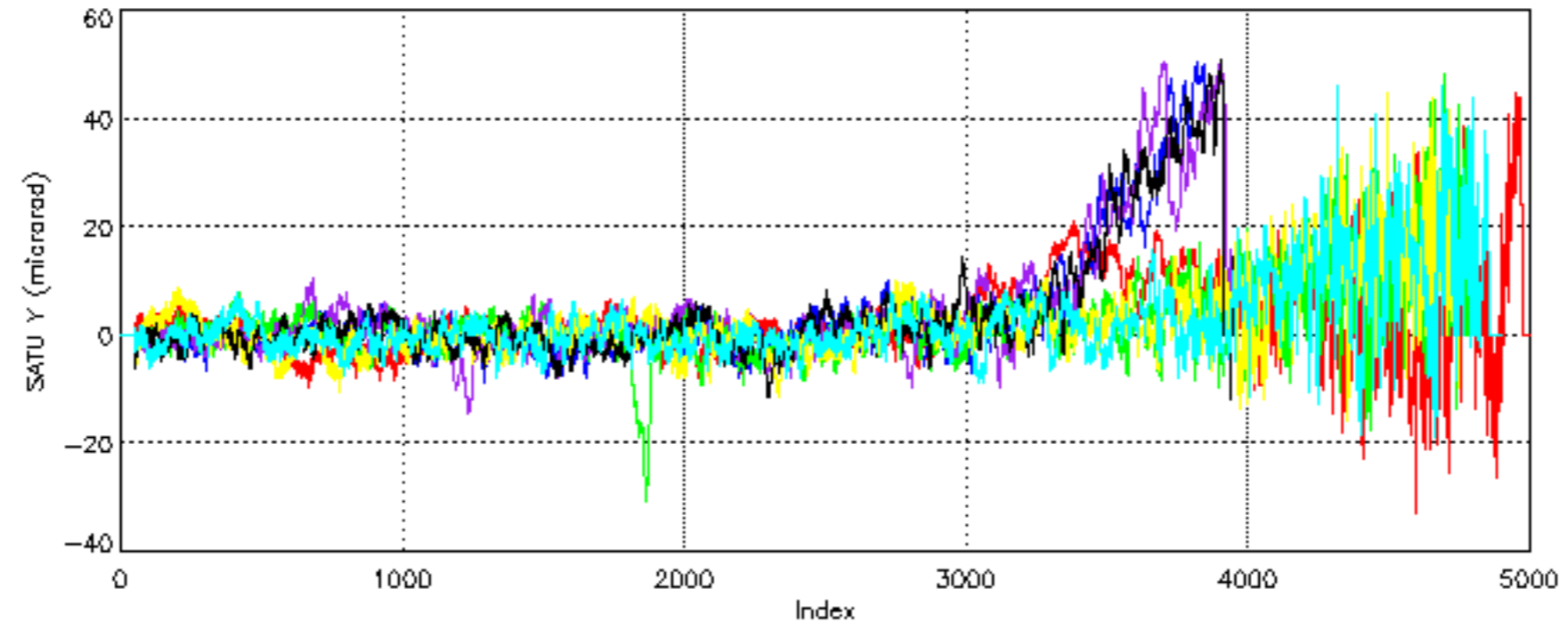
Tangent altitude at which the star is lost

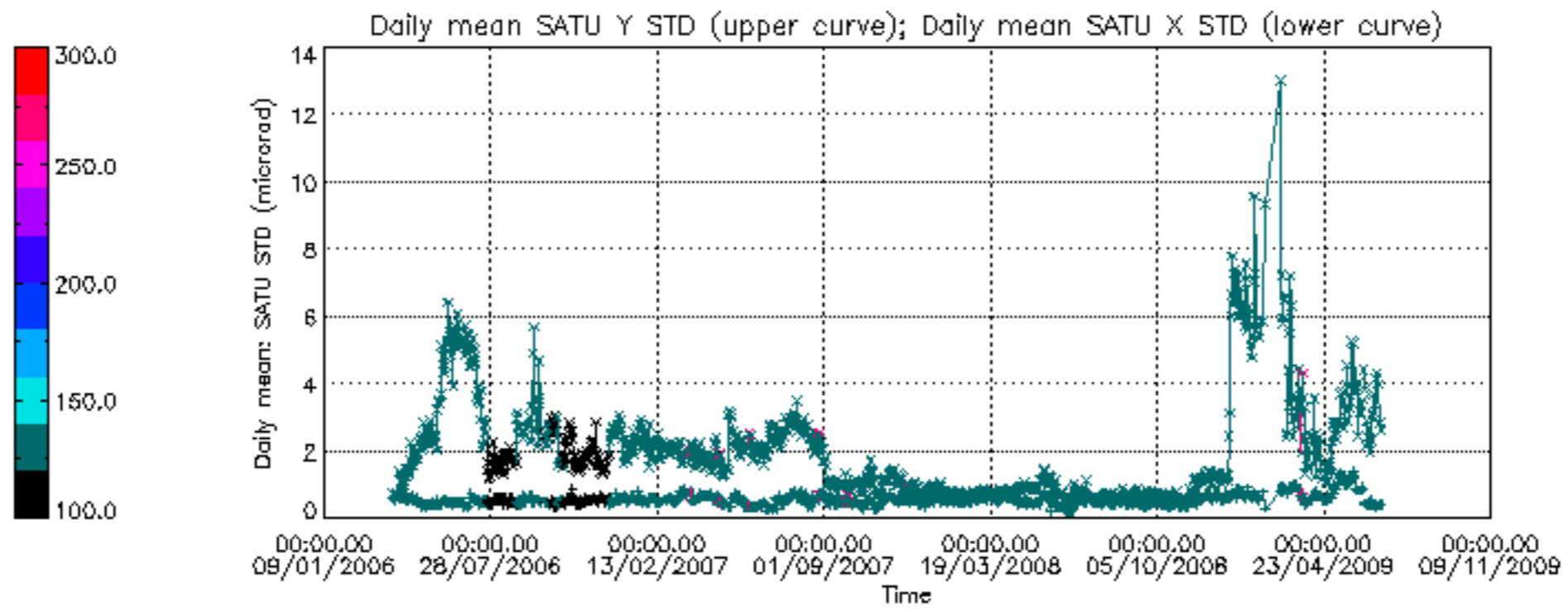


Tangent altitude at which the star is lost









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 5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
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 8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
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 5; 790.6; 01-JUL-2009 22:09:48; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38360  
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 10; 3334.6; 01-JUL-2009 22:52:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38360  
 11; 3778.2; 01-JUL-2009 22:59:35; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38360  
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 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361  
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 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361  
 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361  
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4; 2890.7; 03-JUL-2009 16:39:46; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38385
5; 3318.4; 03-JUL-2009 16:46:54; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38385
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7; 4263.9; 03-JUL-2009 18:43:15; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38386
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7; 2204.4; 05-JUL-2009 00:19:42; Bright; 67.0; 168; 17Zet Aql ; 2.99; 11000;occ; 134; 0;38404
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5; 3757.5; 04-JUL-2009 14:42:00; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38398
6; 3861.4; 04-JUL-2009 14:43:44; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38398
7; 4263.0; 04-JUL-2009 14:50:25; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38398
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13; 2625.1; 05-JUL-2009 07:09:07; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;38408
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3; 2622.1; 05-JUL-2009 20:33:51; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;38416
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5; 3298.2; 05-JUL-2009 20:45:07; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38416
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7; 3855.4; 05-JUL-2009 20:54:24; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38416
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9; 4429.6; 05-JUL-2009 21:03:59; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38416
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3; 553.5; 05-JUL-2009 21:39:58; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38417
4; 664.5; 05-JUL-2009 21:41:49; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38417
5; 847.7; 05-JUL-2009 21:44:53; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38417
6; 2199.5; 05-JUL-2009 22:07:24; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38417
7; 2621.5; 05-JUL-2009 22:14:26; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;38417
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9; 3297.5; 05-JUL-2009 22:25:42; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38417
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13; 4429.9; 05-JUL-2009 22:44:35; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38417
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4; 665.2; 05-JUL-2009 23:22:26; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38418  
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11; 3854.7; 06-JUL-2009 00:15:35; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;38418  
12; 4261.0; 06-JUL-2009 00:22:22; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38418  
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6; 163.2; 05-JUL-2009 08:08:41; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;38409  
7; 546.3; 05-JUL-2009 08:15:04; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38409  
8; 657.9; 05-JUL-2009 08:16:55; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38409  
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3; 2872.5; 05-JUL-2009 08:53:50; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38409  
4; 3302.3; 05-JUL-2009 09:01:00; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38409  
5; 3751.5; 05-JUL-2009 09:08:29; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38409  
6; 3857.8; 05-JUL-2009 09:10:15; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;38409  
7; 4261.8; 05-JUL-2009 09:16:59; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38409  
8; 4429.4; 05-JUL-2009 09:19:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38409  
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3; 2871.8; 05-JUL-2009 10:34:25; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38410  
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6; 3857.6; 05-JUL-2009 10:50:51; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38410  
7; 4261.6; 05-JUL-2009 10:57:35; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;38410  
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4; 3301.0; 05-JUL-2009 12:22:10; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38411  
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 4; 3291.1; 06-JUL-2009 13:30:59; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38426
 5; 3741.4; 06-JUL-2009 13:38:29; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;38426
 6; 3851.9; 06-JUL-2009 13:40:20; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38426
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 6; 3851.3; 06-JUL-2009 17:01:31; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38428
 7; 4259.8; 06-JUL-2009 17:08:20; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38428
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 9; 5016.6; 06-JUL-2009 17:20:57; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;38428
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11; 6220.9; 06-JUL-2009 17:41:01; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38428
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13; 6710.7; 06-JUL-2009 17:49:11; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38428
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 3; 2857.3; 06-JUL-2009 18:25:33; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38429
 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
 5; 3739.4; 06-JUL-2009 18:40:15; Bright; 72.0; 74; 11Bet Cas ; 2.27; 6600;occ; 144; 0;38429
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 7; 4259.8; 06-JUL-2009 18:48:56; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;38429
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 9; 5017.0; 06-JUL-2009 19:01:33; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;38429
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13; 6711.4; 06-JUL-2009 19:29:47; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38429
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 3; 569.6; 07-JUL-2009 02:10:25; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;38434
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 7; 570.4; 07-JUL-2009 03:51:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38435
 8; 679.6; 07-JUL-2009 03:52:51; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38435
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11; 2853.3; 07-JUL-2009 04:29:05; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38435
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 9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
10; 865.7; 07-JUL-2009 05:36:33; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38436
11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
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 7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
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 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
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 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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4; 3721.5; 08-JUL-2009 20:57:55; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38459
5; 3840.0; 08-JUL-2009 20:59:54; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38459
6; 4298.1; 08-JUL-2009 21:07:32; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38459
7; 4432.5; 08-JUL-2009 21:09:46; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38459
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3; 593.2; 08-JUL-2009 21:46:23; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38460
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5; 887.6; 08-JUL-2009 21:51:17; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38460
6; 2183.6; 08-JUL-2009 22:12:53; Bright; 42.5; 168; 17Zet Aql ; 2.99; 11000;occ; 85; 0;38460
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9; 3720.6; 08-JUL-2009 22:38:30; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38460
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5; 888.4; 08-JUL-2009 23:31:54; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38461
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7; 586.1; 08-JUL-2009 08:21:28; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38452
8; 693.5; 08-JUL-2009 08:23:16; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38452
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4; 3725.7; 08-JUL-2009 09:13:48; Bright; 59.5; 74; 11Bet Cas ; 2.27; 6600;occ; 119; 0;38452
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 3; 694.6; 08-JUL-2009 10:03:53; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38453
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 5; 4256.8; 08-JUL-2009 12:43:51; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38454
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9; 703.5; 09-JUL-2009 04:30:37; Dark ; 57.5; 31; Alp Gru ; 1.73; 15200;occ; 115; 0;38464
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4; 3712.6; 09-JUL-2009 20:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38473
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4; 3251.7; 10-JUL-2009 21:27:27; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38488
5; 3703.1; 10-JUL-2009 21:34:59; Bright; 60.5; 74; 11Bet Cas ; 2.27; 6600;occ; 121; 0;38488
6; 3829.0; 10-JUL-2009 21:37:05; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38488
7; 4050.4; 10-JUL-2009 21:40:46; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;38488

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6; 2174.6; 11-JUL-2009 00:30:42; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;38490  
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6; 4253.2; 10-JUL-2009 08:19:21; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38480  
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8; 4434.1; 11-JUL-2009 09:31:21; Dark ; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;38495

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5; 3695.4; 11-JUL-2009 17:42:02; Bright; 73.0; 74; 11Bet Cas ; 2.27; 6600;occ; 146; 0;38500
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12; 6788.3; 13-JUL-2009 14:09:09; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38526  
13; 6980.1; 13-JUL-2009 14:12:21; Dark ; 52.5; 172; Gam Gru ; 3.00; 13100;occ; 105; 0;38526  
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3; 2946.0; 13-JUL-2009 16:26:19; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;38528  
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6; 3812.4; 13-JUL-2009 16:40:45; Bright; 66.0; 110; 37Del Cas ; 2.68; 8900;occ; 132; 0;38528  
7; 4044.7; 13-JUL-2009 16:44:37; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 81; 0;38528  
8; 4123.7; 13-JUL-2009 16:45:56; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38528  
9; 4245.3; 13-JUL-2009 16:47:58; Bright; 62.5; 73; 57Gam1And ; 2.26; 13100;occ; 125; 0;38528  
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13; 6690.4; 13-JUL-2009 17:28:43; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38528  
14; 6789.9; 13-JUL-2009 17:30:23; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38528  
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3; 2945.2; 13-JUL-2009 18:06:54; Bright; 53.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 106; 0;38529  
4; 3226.8; 13-JUL-2009 18:11:36; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38529  
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6; 3811.8; 13-JUL-2009 18:21:20; Bright; 51.0; 110; 37Del Cas ; 2.68; 8900;occ; 102; 0;38529  
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8; 4123.3; 13-JUL-2009 18:26:32; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38529  
9; 4245.0; 13-JUL-2009 18:28:34; Bright; 61.5; 73; 57Gam1And ; 2.26; 13100;occ; 123; 0;38529  
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7; 4044.6; 13-JUL-2009 20:05:49; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;38530  
8; 4123.1; 13-JUL-2009 20:07:08; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38530  
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5; 949.6; 14-JUL-2009 01:56:38; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38534  
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9;	3223.7;	14-JUL-2009	02:34:32;	Bright;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	38534	
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2;	-1913.0;	14-JUL-2009	02:49:31;	Bright;	40.5;	35;	33Alp Per	;	1.79;	6250;occ;	81;	0;	38534	
3;	-1791.9;	14-JUL-2009	02:51:32;	Bright;	49.0;	73;	57Gam1And	;	2.26;	13100;occ;	98;	0;	38534	
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5;	-610.7;	14-JUL-2009	03:11:13;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	38534
6;	303.8;	14-JUL-2009	03:26:28;	Dark	;	55.5;	84;	Alp Phe	;	2.40;	4500;occ;	111;	0;	38535
7;	659.3;	14-JUL-2009	03:32:23;	Dark	;	53.0;	63;	Bet Gru	;	2.15;	2800;occ;	106;	0;	38535
8;	758.2;	14-JUL-2009	03:34:02;	Dark	;	48.5;	31;	Alp Gru	;	1.73;	15200;occ;	97;	0;	38535
9;	950.2;	14-JUL-2009	03:37:14;	Dark	;	52.5;	172;	Gam Gru	;	3.00;	13100;occ;	105;	0;	38535
10;	2163.5;	14-JUL-2009	03:57:28;	Bright;	42.0;	168;	17Zet Aql	;	2.99;	11000;occ;	84;	0;	38535	
11;	2790.0;	14-JUL-2009	04:07:54;	Bright;	41.0;	144;	18Del Cyg	;	2.86;	11000;occ;	82;	0;	38535	
12;	2939.7;	14-JUL-2009	04:10:24;	Bright;	46.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	93;	0;	38535	
13;	3223.2;	14-JUL-2009	04:15:07;	Bright;	44.5;	89;	5Alp Cep	;	2.45;	8000;occ;	89;	0;	38535	
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7;	-609.8;	14-JUL-2009	04:51:50;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;	38535
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9;	660.1;	14-JUL-2009	05:13:00;	Dark	;	54.0;	63;	Bet Gru	;	2.15;	2800;occ;	108;	0;	38536
10;	759.0;	14-JUL-2009	05:14:39;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	38536
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12;	2163.2;	14-JUL-2009	05:38:03;	Bright;	40.0;	168;	17Zet Aql	;	2.99;	11000;occ;	80;	0;	38536	
13;	2789.5;	14-JUL-2009	05:48:30;	Bright;	42.5;	144;	18Del Cyg	;	2.86;	11000;occ;	85;	0;	38536	
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3;	-1992.4;	14-JUL-2009	06:09:24;	Bright;	47.0;	160;	23Gam Per	;	2.93;	4700;occ;	94;	0;	38536	
4;	-1913.1;	14-JUL-2009	06:10:43;	Bright;	42.5;	35;	33Alp Per	;	1.79;	6250;occ;	85;	0;	38536	
5;	-1792.2;	14-JUL-2009	06:12:44;	Bright;	43.0;	73;	57Gam1And	;	2.26;	13100;occ;	86;	0;	38536	
6;	-953.4;	14-JUL-2009	06:26:43;	Dark	;	57.5;	94;	92Alp Cet	;	2.53;	3100;occ;	115;	0;	38536
7;	-608.9;	14-JUL-2009	06:32:27;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	38536
8;	306.1;	14-JUL-2009	06:47:42;	Dark	;	52.5;	84;	Alp Phe	;	2.40;	4500;occ;	105;	0;	38537
9;	661.0;	14-JUL-2009	06:53:37;	Dark	;	65.0;	63;	Bet Gru	;	2.15;	2800;occ;	130;	0;	38537
10;	759.7;	14-JUL-2009	06:55:16;	Dark	;	55.0;	31;	Alp Gru	;	1.73;	15200;occ;	110;	0;	38537
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2;	2789.0;	14-JUL-2009	07:29:05;	Bright;	43.0;	144;	18Del Cyg	;	2.86;	11000;occ;	86;	0;	38537	
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4;	3222.0;	14-JUL-2009	07:36:18;	Bright;	40.0;	89;	5Alp Cep	;	2.45;	8000;occ;	80;	0;	38537	
5;	3670.7;	14-JUL-2009	07:43:47;	Bright;	49.5;	74;	11Bet Cas	;	2.27;	6600;occ;	99;	0;	38537	
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7;	4043.6;	14-JUL-2009	07:50:00;	Bright;	60.0;	160;	23Gam Per	;	2.93;	4700;occ;	120;	0;	38537	
8;	4122.8;	14-JUL-2009	07:51:19;	Bright;	59.0;	35;	33Alp Per	;	1.79;	6250;occ;	118;	0;	38537	
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13;	6697.9;	14-JUL-2009	08:34:14;	Dark	;	65.0;	63;	Bet Gru	;	2.15;	2800;occ;	130;	0;	38537
14;	6796.4;	14-JUL-2009	08:35:53;	Dark	;	52.5;	31;	Alp Gru	;	1.73;	15200;occ;	105;	0;	38537
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2;	2788.5;	14-JUL-2009	09:09:41;	Bright;	41.5;	144;	18Del Cyg	;	2.86;	11000;occ;	83;	0;	38538	
3;	2937.0;	14-JUL-2009	09:12:09;	Bright;	52.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	104;	0;	38538	
4;	3221.4;	14-JUL-2009	09:16:54;	Bright;	41.0;	89;	5Alp Cep	;	2.45;	8000;occ;	82;	0;	38538	

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7;	4043.3;	14-JUL-2009	09:30:35;	Bright;	40.5;	160;	23Gam Per	;	2.93;	4700;occ;	81;	0;	38538	
8;	4122.7;	14-JUL-2009	09:31:55;	Bright;	59.0;	35;	33Alp Per	;	1.79;	6250;occ;	118;	0;	38538	
9;	4243.4;	14-JUL-2009	09:33:56;	Bright;	37.0;	73;	57Gam1And	;	2.26;	13100;occ;	74;	0;	38538	
10;	5084.1;	14-JUL-2009	09:47:56;	Dark	;	59.0;	94;	92Alp Cet	;	2.53;	3100;occ;	118;	0;	38538
11;	5428.7;	14-JUL-2009	09:53:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	38538
12;	6344.1;	14-JUL-2009	10:08:56;	Dark	;	51.5;	84;	Alp Phe	;	2.40;	4500;occ;	103;	0;	38538
13;	6698.7;	14-JUL-2009	10:14:51;	Dark	;	65.5;	63;	Bet Gru	;	2.15;	2800;occ;	131;	0;	38538
14;	6797.1;	14-JUL-2009	10:16:29;	Dark	;	48.0;	31;	Alp Gru	;	1.73;	15200;occ;	96;	0;	38538
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4;	3220.9;	14-JUL-2009	10:57:29;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;	38539	
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7;	4043.2;	14-JUL-2009	11:11:11;	Bright;	40.0;	160;	23Gam Per	;	2.93;	4700;occ;	80;	0;	38539	
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6; 1000.0; 18-JUL-2009 21:38:48; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38603
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9; 4288.1; 25-JUL-2009 10:29:17; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38696
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3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
4; 3134.4; 25-JUL-2009 11:50:39; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38697
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13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
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3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698

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6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699  
7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699  
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4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700  
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4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701  
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6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701  
7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701  
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 5; -1752.4; 28-JUL-2009 03:52:33; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38735  
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 12; 889.5; 28-JUL-2009 04:36:35; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38736  
 13; 1080.3; 28-JUL-2009 04:39:46; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38736  
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 5; 2705.8; 28-JUL-2009 20:12:15; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;38745
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6; 1100.3; 30-JUL-2009 22:03:28; Dark ; 44.0; 172; Gam Gru ; 3.00; 13100;occ; 88; 0;38775
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6; 3092.4; 31-JUL-2009 20:24:27; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38788
7; 3481.2; 31-JUL-2009 20:30:56; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38788
8; 3598.7; 31-JUL-2009 20:32:53; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38788
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10; 4079.4; 31-JUL-2009 20:40:54; Bright; 48.0; 35; 33Alp Per ; 1.79; 6250;occ; 96; 0;38788
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12; 4500.9; 31-JUL-2009 20:47:55; Dark ; 52.0; 150; 44Zet Per ; 2.89; 28000;occ; 104; 0;38788
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