

# GOMOS Daily Report 09-JUN-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	12JUN2009 04:36:28
Data source version	GOMOS/5.00
Start time of products	09JUN2009 00:00:49
Stop time of products	09JUN2009 21:12:28
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)

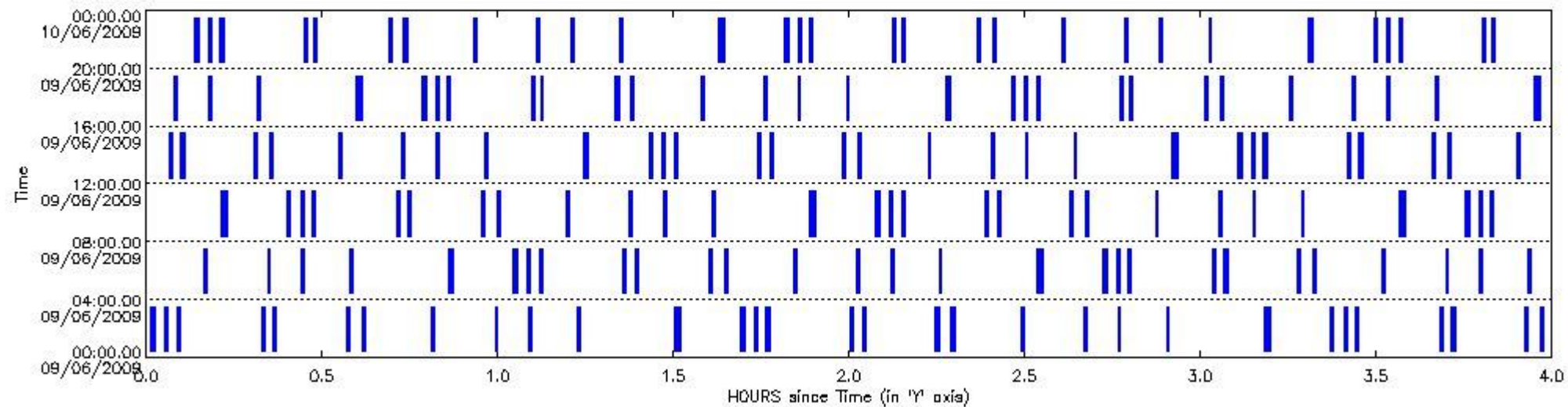
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

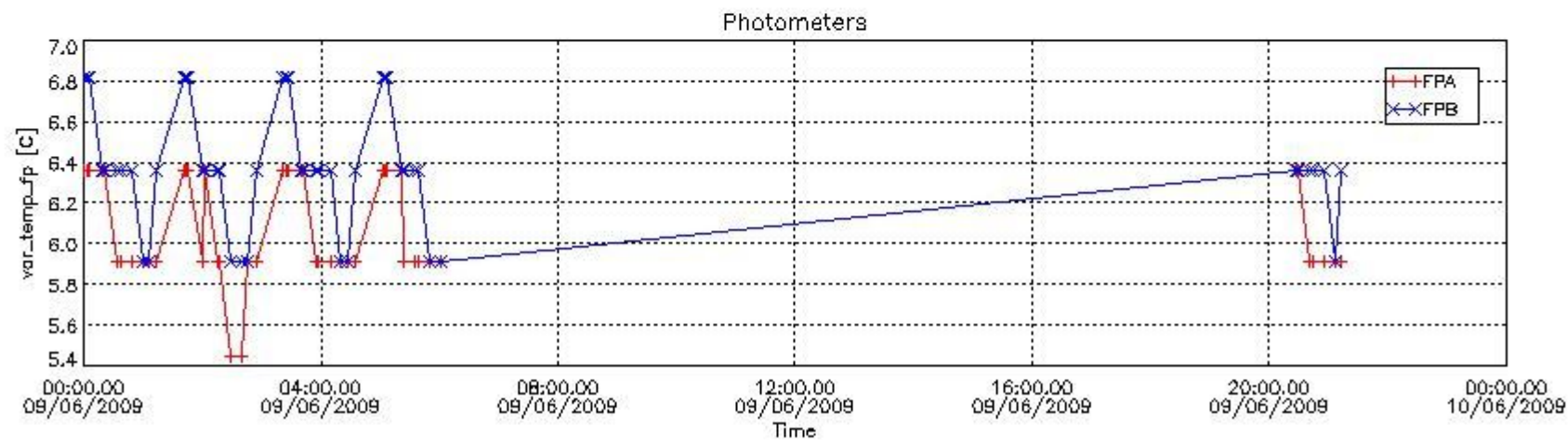
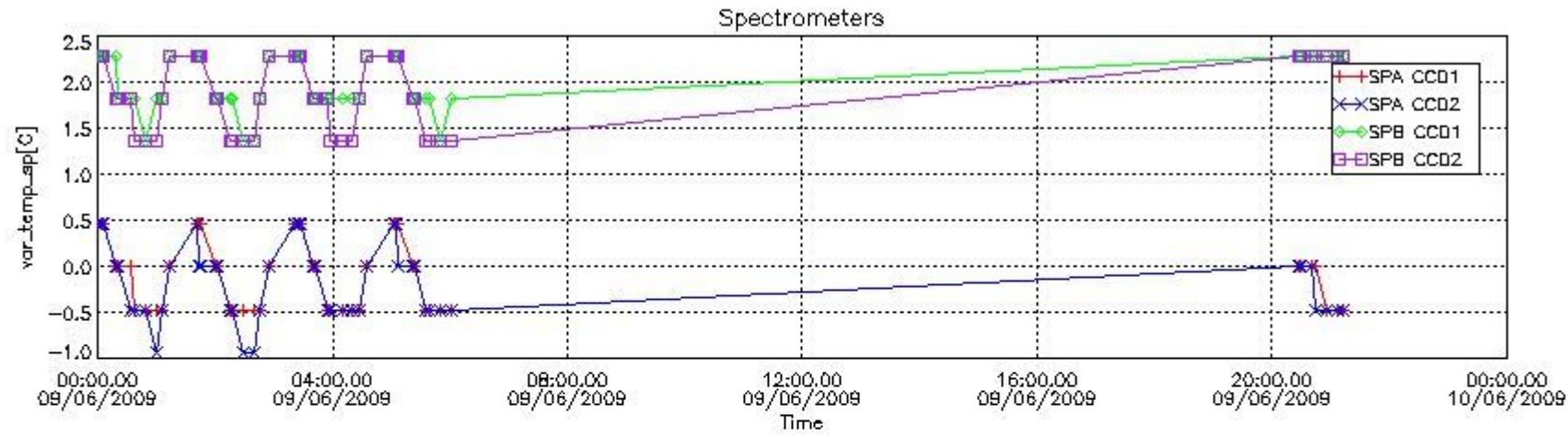
No missing products.

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

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090609_000049_000000432079_00403_38032_1532.N1	09-JUN-2009 00:00:49	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	38032	No
2	GOM_TRA_1PNPDE20090609_000313_000000332079_00403_38032_1533.N1	09-JUN-2009 00:03:13	Dark	33.000	63	Bet Gru	2.1500	2800.0	66	38032	No
3	GOM_TRA_1PNPDE20090609_000513_000000342079_00403_38032_1534.N1	09-JUN-2009 00:05:13	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38032	No
4	GOM_TRA_1PNPDE20090609_001938_000000312079_00403_38032_1535.N1	09-JUN-2009 00:19:38	Tw_i_and_stray	31.000	38	20Eps Sgr	1.8360	11000.	62	38032	No
5	GOM_TRA_1PNPDE20090609_002137_000000382079_00403_38032_1536.N1	09-JUN-2009 00:21:37	Tw_i_and_stray	37.500	57	34Sig Sgr	2.0660	26000.	75	38032	No
6	GOM_TRA_1PNPDE20090609_003410_000000362079_00403_38032_1537.N1	09-JUN-2009 00:34:10	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38032	No
7	GOM_TRA_1PNPDE20090609_003650_000000352079_00403_38032_1538.N1	09-JUN-2009 00:36:50	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38032	No
8	GOM_TRA_1PNPDE20090609_004844_000000312079_00403_38032_1539.N1	09-JUN-2009 00:48:44	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38032	No
9	GOM_TRA_1PNPDE20090609_005930_000000312079_00403_38032_1540.N1	09-JUN-2009 00:59:30	Tw_i_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	38032	No
10	GOM_TRA_1PNPDE20090609_010520_000000252079_00403_38032_1541.N1	09-JUN-2009 01:05:20	Tw_i_and_stray	25.000	74	11Bet Cas	2.2680	6600.0	50	38032	No
11	GOM_TRA_1PNPDE20090609_011337_000000232079_00403_38032_1542.N1	09-JUN-2009 01:13:37	Tw_i_and_stray	23.000	53	43Bet And	2.0480	3300.0	46	38032	No
12	GOM_TRA_1PNPDE20090609_014126_000000432079_00404_38033_1666.N1	09-JUN-2009 01:41:26	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	38033	No

13	GOM_TRA_1PNPDE20090609_014350_000000332079_00404_38033_1667.N1	09-JUN-2009 01:43:50	Dark	33.000	63	Bet Gru	2.1500	2800.0	66	38033	No
14	GOM_TRA_1PNPDE20090609_014549_000000352079_00404_38033_1668.N1	09-JUN-2009 01:45:49	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38033	No
15	GOM_TRA_1PNPDE20090609_020014_000000322079_00404_38033_1669.N1	09-JUN-2009 02:00:14	Tw_i_and_stray	31.500	38	20Eps Sgr	1.8360	11000.	63	38033	No
16	GOM_TRA_1PNPDE20090609_020213_000000382079_00404_38033_1670.N1	09-JUN-2009 02:02:13	Tw_i_and_stray	37.500	57	34Sig Sgr	2.0660	26000.	75	38033	No
17	GOM_TRA_1PNPDE20090609_021446_000000362079_00404_38033_1671.N1	09-JUN-2009 02:14:46	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38033	No
18	GOM_TRA_1PNPDE20090609_021725_000000352079_00404_38033_1672.N1	09-JUN-2009 02:17:25	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	38033	No
19	GOM_TRA_1PNPDE20090609_022919_000000312079_00404_38033_1673.N1	09-JUN-2009 02:29:19	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38033	No
20	GOM_TRA_1PNPDE20090609_024005_000000312079_00404_38033_1674.N1	09-JUN-2009 02:40:05	Tw_i_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	38033	No
21	GOM_TRA_1PNPDE20090609_024556_000000262079_00404_38033_1820.N1	09-JUN-2009 02:45:56	Tw_i_and_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	38033	No
22	GOM_TRA_1PNPDE20090609_025413_000000242079_00404_38033_1821.N1	09-JUN-2009 02:54:13	Tw_i_and_stray	24.000	53	43Bet And	2.0480	3300.0	48	38033	No
23	GOM_TRA_1PNPDE20090609_032204_000000432079_00405_38034_1822.N1	09-JUN-2009 03:22:04	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	38034	No
24	GOM_TRA_1PNPDE20090609_032426_000000342079_00405_38034_1823.N1	09-JUN-2009 03:24:26	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38034	No
25	GOM_TRA_1PNPDE20090609_032627_000000352079_00405_38034_1824.N1	09-JUN-2009 03:26:27	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38034	No
26	GOM_TRA_1PNPDE20090609_034050_000000322079_00405_38034_1825.N1	09-JUN-2009 03:40:50	Tw_i_and_stray	31.500	38	20Eps Sgr	1.8360	11000.	63	38034	No
27	GOM_TRA_1PNPDE20090609_034250_000000382079_00405_38034_1826.N1	09-JUN-2009 03:42:50	Tw_i_and_stray	37.500	57	34Sig Sgr	2.0660	26000.	75	38034	No
28	GOM_TRA_1PNPDE20090609_035522_000000362079_00405_38034_1827.N1	09-JUN-2009 03:55:22	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	38034	No
29	GOM_TRA_1PNPDE20090609_035801_000000352079_00405_38034_1828.N1	09-JUN-2009 03:58:01	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38034	No
30	GOM_TRA_1PNPDE20090609_040955_000000312079_00405_38034_1829.N1	09-JUN-2009 04:09:55	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38034	No
31	GOM_TRA_1PNPDE20090609_042041_000000312079_00405_38034_1830.N1	09-JUN-2009 04:20:41	Tw_i_and_stray	30.500	89	5Alp Cep	2.4510	8000.0	61	38034	No
32	GOM_TRA_1PNPDE20090609_042631_000000262079_00405_38034_2022.N1	09-JUN-2009 04:26:31	Tw_i_and_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	38034	No
33	GOM_TRA_1PNPDE20090609_043449_000000242079_00405_38034_2023.N1	09-JUN-2009 04:34:49	Tw_i_and_stray	24.000	53	43Bet And	2.0480	3300.0	48	38034	No
34	GOM_TRA_1PNPDE20090609_050241_000000442079_00406_38035_2024.N1	09-JUN-2009 05:02:41	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	38035	No
35	GOM_TRA_1PNPDE20090609_050503_000000342079_00406_38035_2025.N1	09-JUN-2009 05:05:03	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38035	No
36	GOM_TRA_1PNPDE20090609_050703_000000352079_00406_38035_2026.N1	09-JUN-2009 05:07:03	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38035	No
37	GOM_TRA_1PNPDE20090609_052127_000000312079_00406_38035_2027.N1	09-JUN-2009 05:21:27	Tw_i_and_stray	30.500	38	20Eps Sgr	1.8360	11000.	61	38035	No
38	GOM_TRA_1PNPDE20090609_052326_000000382079_00406_38035_2028.N1	09-JUN-2009 05:23:26	Tw_i_and_stray	37.500	57	34Sig Sgr	2.0660	26000.	75	38035	No
39	GOM_TRA_1PNPDE20090609_053557_000000352079_00406_38035_2029.N1	09-JUN-2009 05:35:57	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	38035	No
40	GOM_TRA_1PNPDE20090609_053836_000000352079_00406_38035_2030.N1	09-JUN-2009 05:38:36	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38035	No
41	GOM_TRA_1PNPDE20090609_055030_000000312079_00406_38035_2031.N1	09-JUN-2009 05:50:30	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38035	No
42	GOM_TRA_1PNPDE20090609_060116_000000302079_00406_38035_2032.N1	09-JUN-2009 06:01:16	Tw_i_and_stray	30.000	89	5Alp Cep	2.4510	8000.0	60	38035	No
43	GOM_TRA_1PNPDE20090609_202654_000000312079_00415_38044_2477.N1	09-JUN-2009 20:26:54	Tw_i_and_stray	31.000	38	20Eps Sgr	1.8360	11000.	62	38044	No
44	GOM_TRA_1PNPDE20090609_202829_000000322079_00415_38044_2478.N1	09-JUN-2009 20:28:29	Tw_i_and_stray	31.500	116	19Del Sgr	2.7000	4100.0	63	38044	No
45	GOM_TRA_1PNPDE20090609_204117_000000352079_00415_38044_2479.N1	09-JUN-2009 20:41:17	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	38044	No
46	GOM_TRA_1PNPDE20090609_204356_000000352079_00415_38044_2480.N1	09-JUN-2009 20:43:56	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	38044	No
47	GOM_TRA_1PNPDE20090609_205549_000000312079_00415_38044_2481.N1	09-JUN-2009 20:55:49	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38044	No
48	GOM_TRA_1PNPDE20090609_210633_000000312079_00415_38044_2482.N1	09-JUN-2009 21:06:33	Tw_i_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	38044	No
49	GOM_TRA_1PNPDE20090609_211228_000000262079_00415_38044_2483.N1	09-JUN-2009 21:12:28	Tw_i_and_stray	25.500	74	11Bet Cas	2.2680	6600.0	51	38044	No

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



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

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

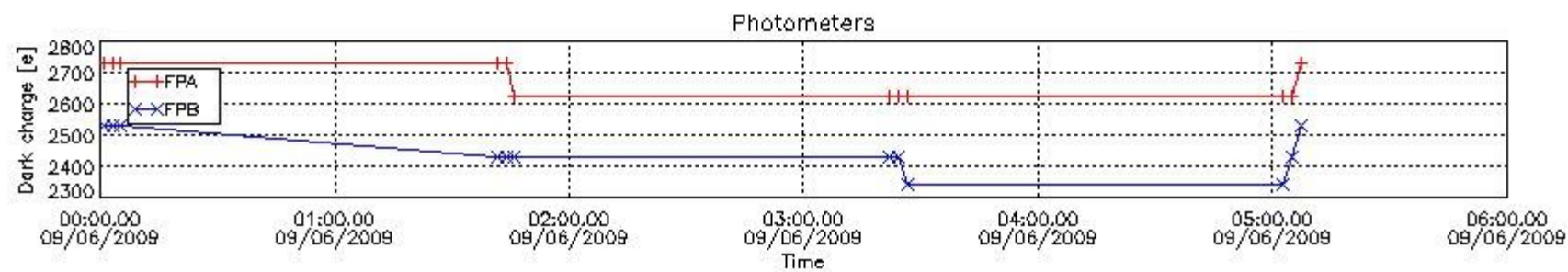
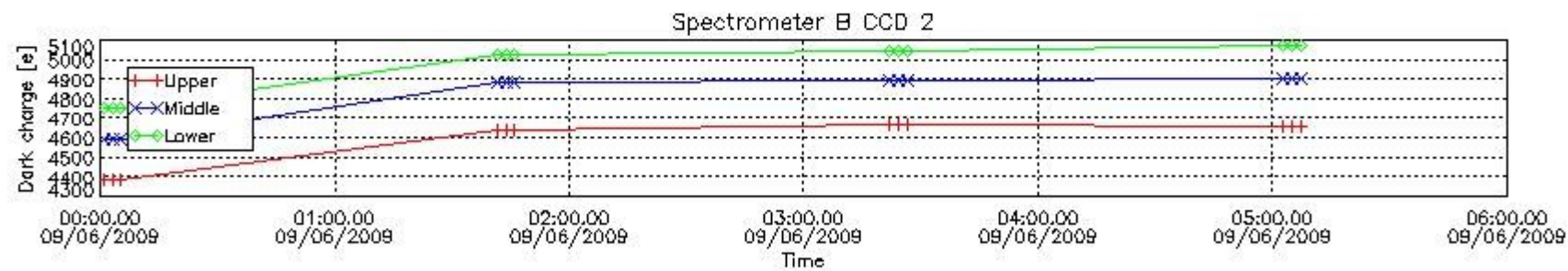
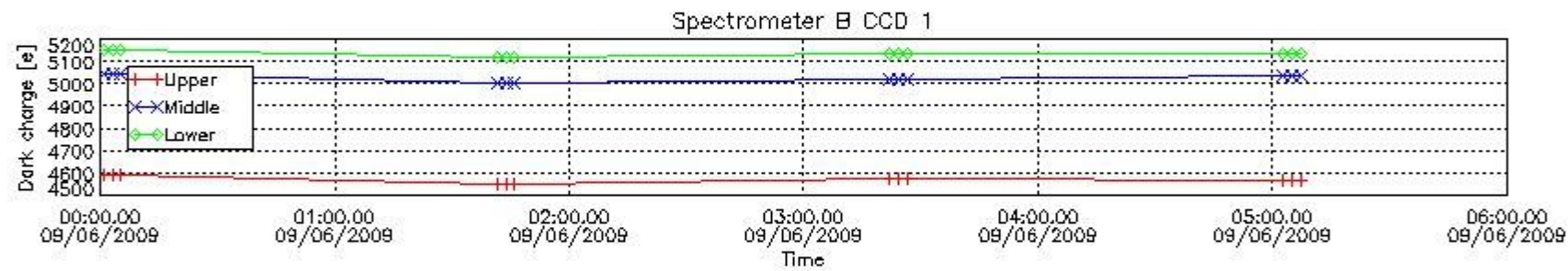
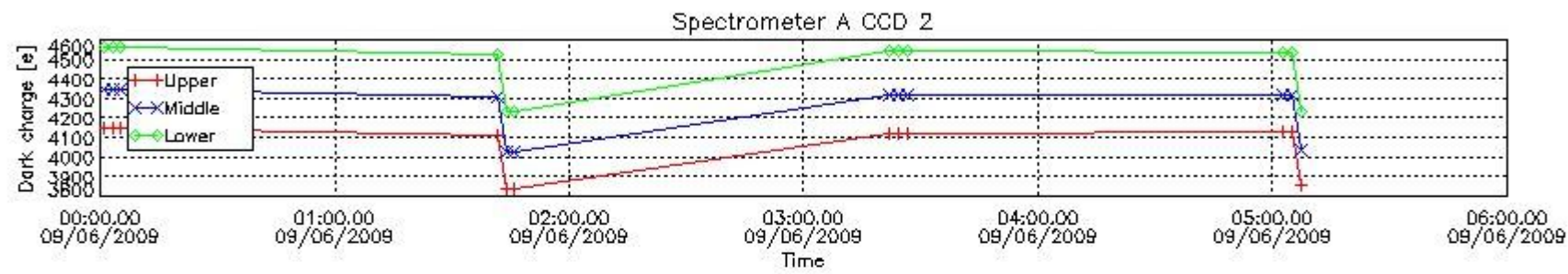
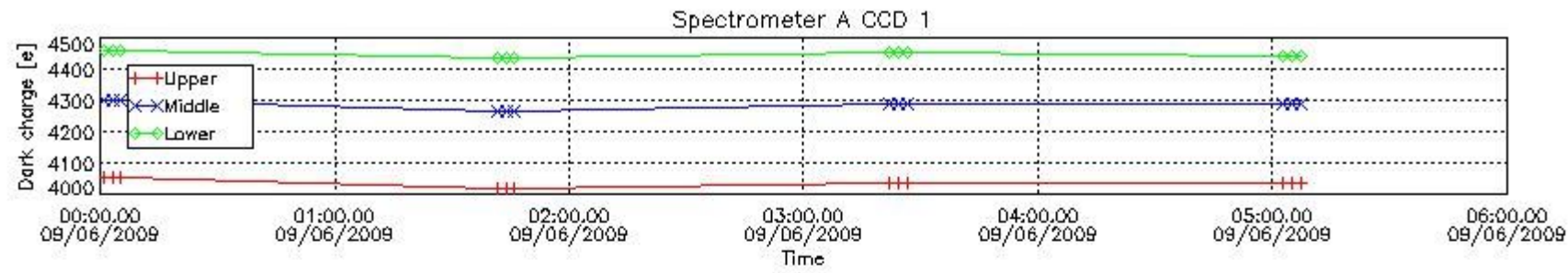
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090609_202654_000000312079_00415_38044_2477.N1	DC map used
GOM_TRA_1PNPDE20090609_202829_000000322079_00415_38044_2478.N1	DC map used
GOM_TRA_1PNPDE20090609_204117_000000352079_00415_38044_2479.N1	DC map used
GOM_TRA_1PNPDE20090609_204356_000000352079_00415_38044_2480.N1	DC map used
GOM_TRA_1PNPDE20090609_205549_000000312079_00415_38044_2481.N1	DC map used
GOM_TRA_1PNPDE20090609_210633_000000312079_00415_38044_2482.N1	DC map used
GOM_TRA_1PNPDE20090609_211228_000000262079_00415_38044_2483.N1	DC map used

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





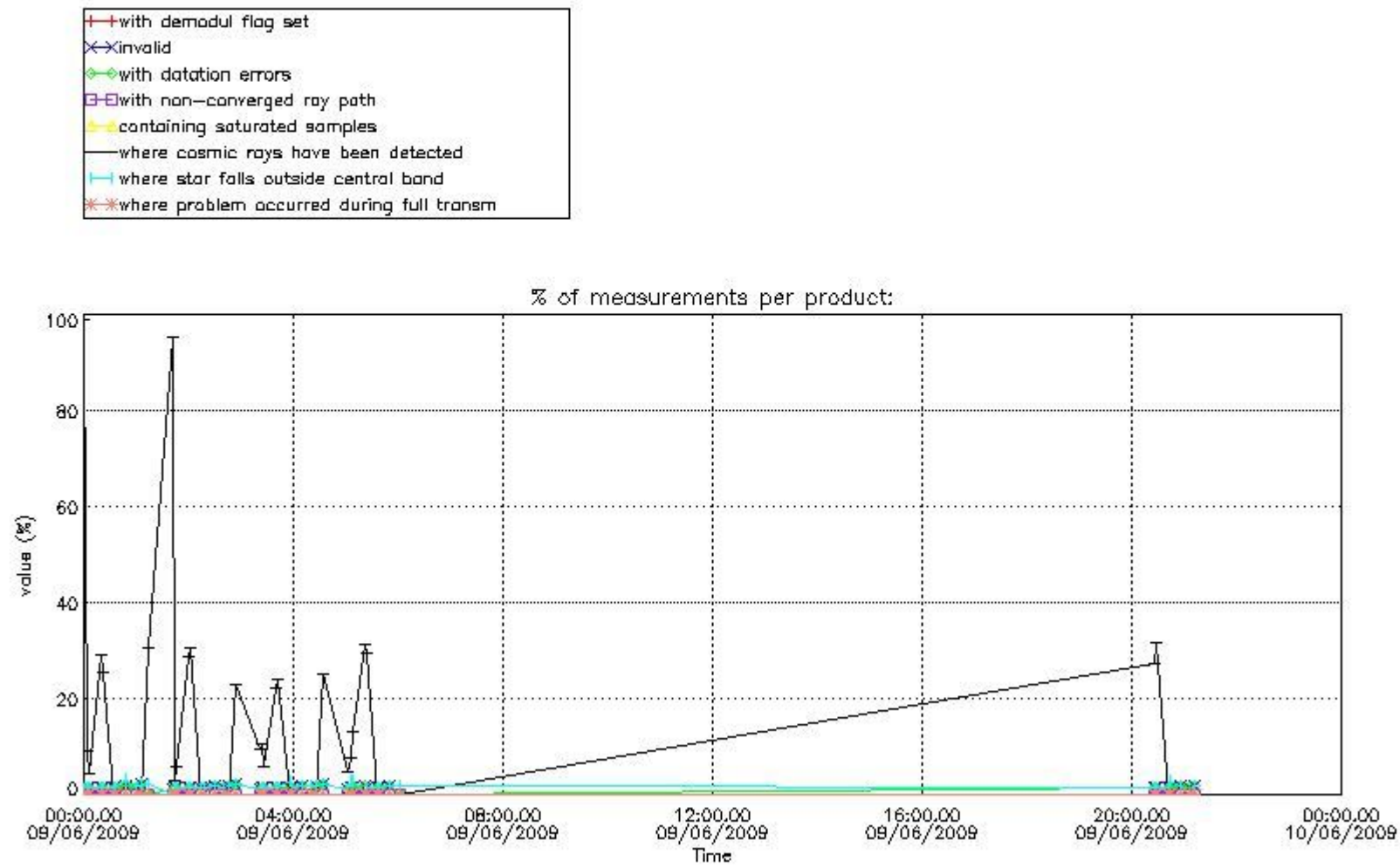
## 5. Demodulation flag and quality information monitoring

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

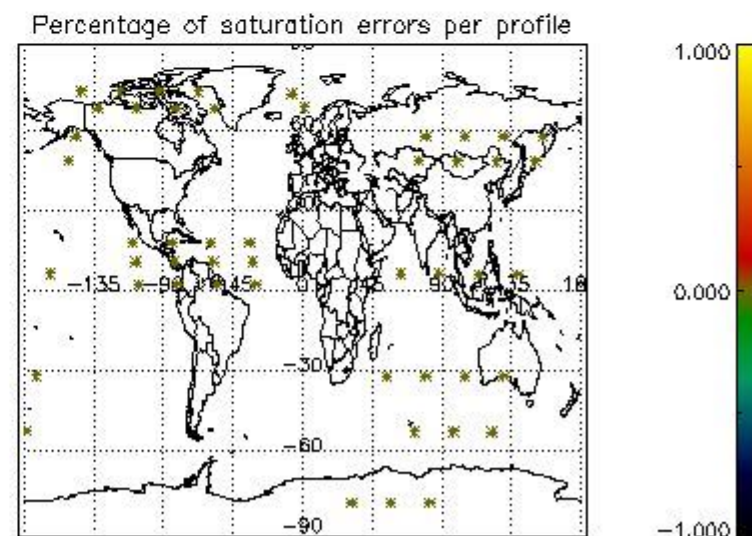
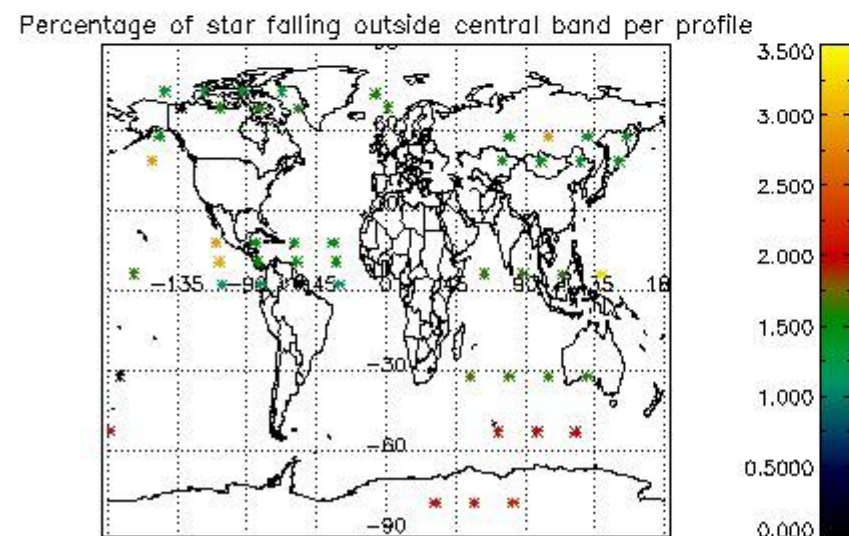
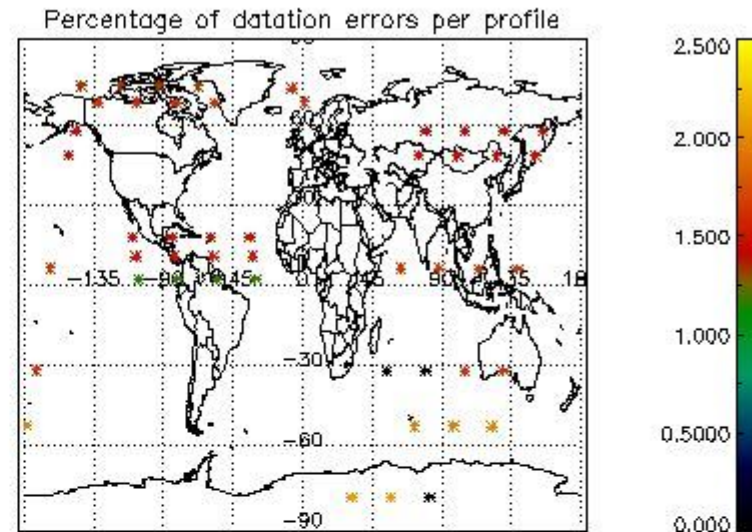
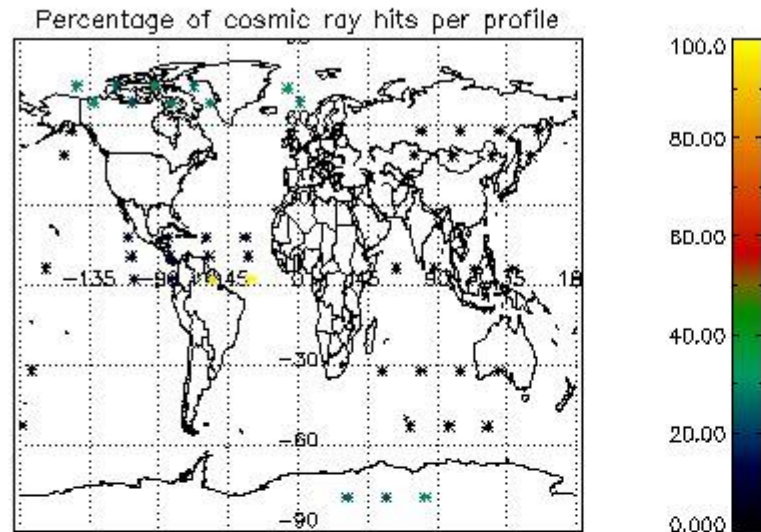
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.7755 %
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)

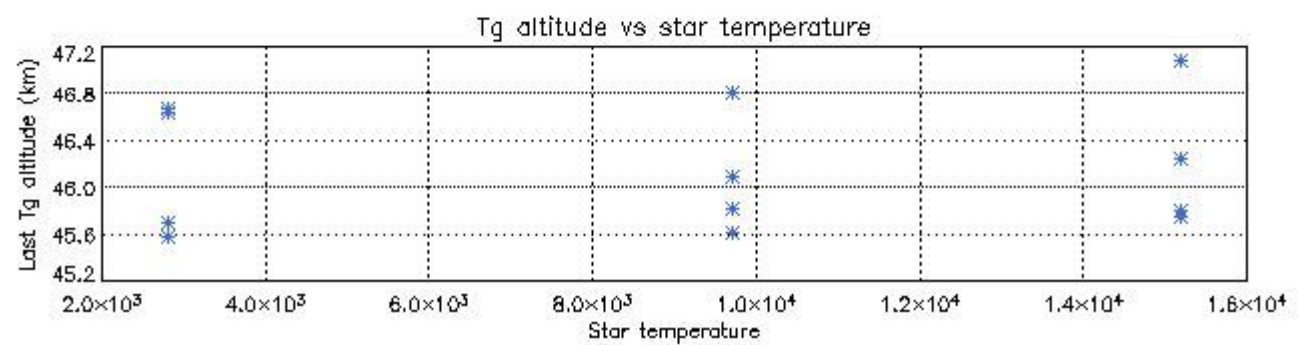
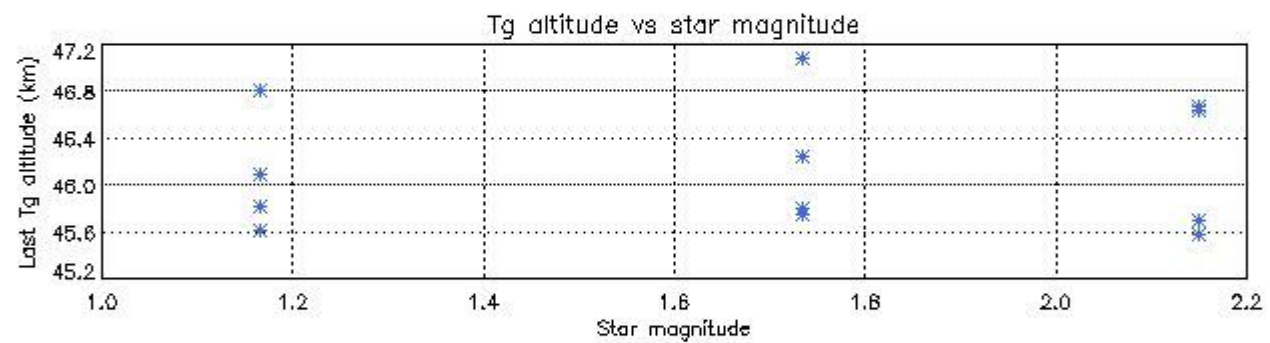
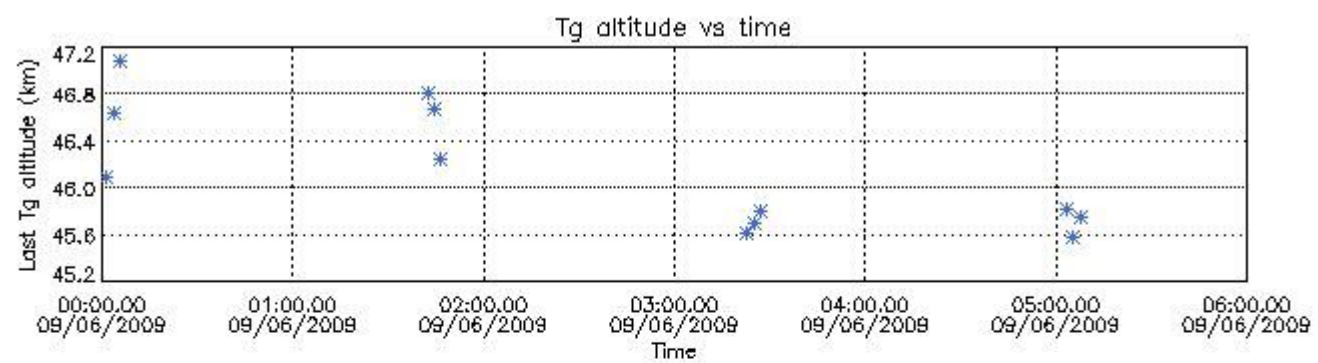
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	46.149	48.764	NaN
St. deviation:	0.52482	0.59629	NaN
Maximum:	47.081	49.565	NaN
Minimum:	45.576	47.578	NaN
Number of data:	12.000	15.000	NaN

### 6.2 Plot for DARK limb products



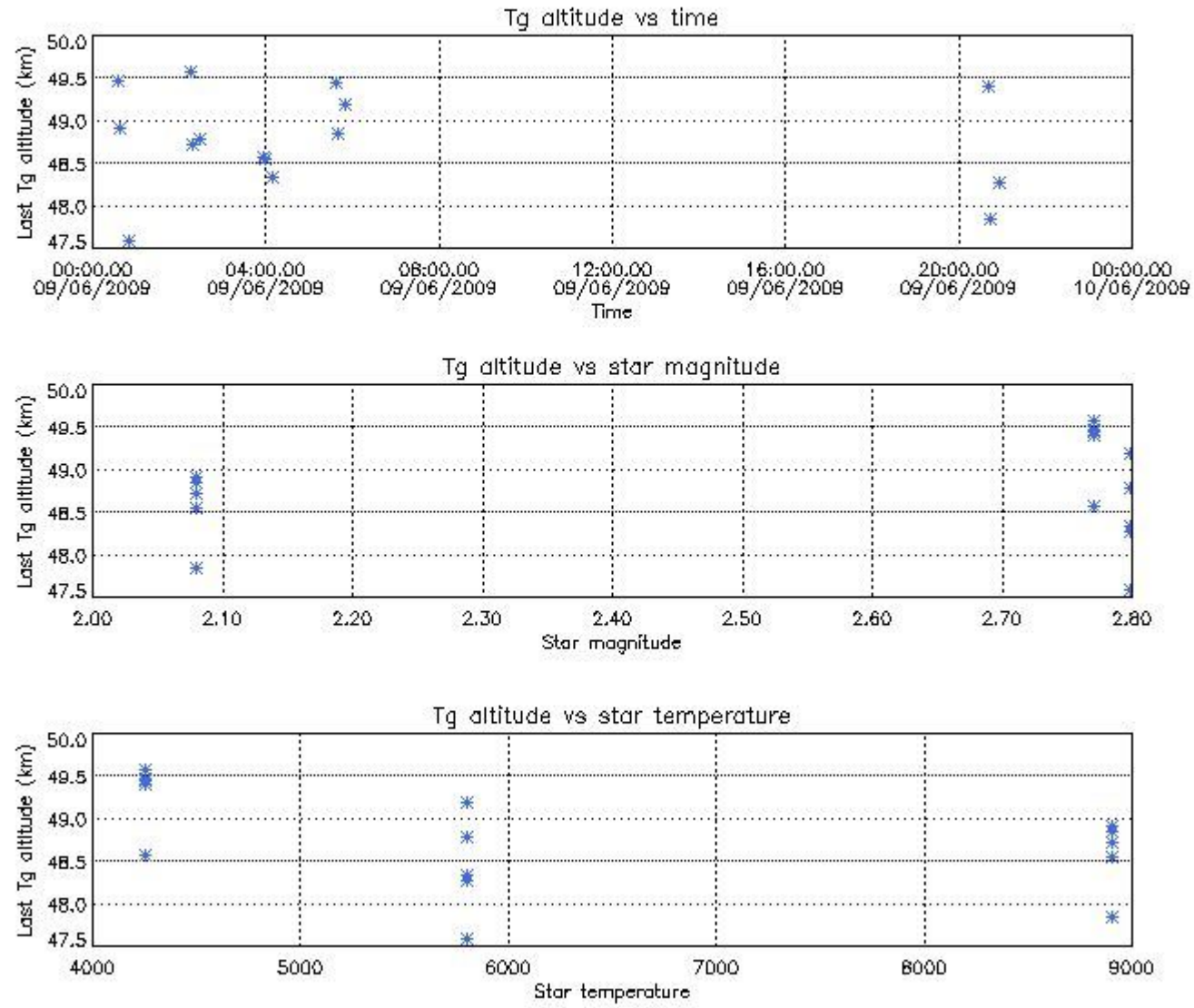
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

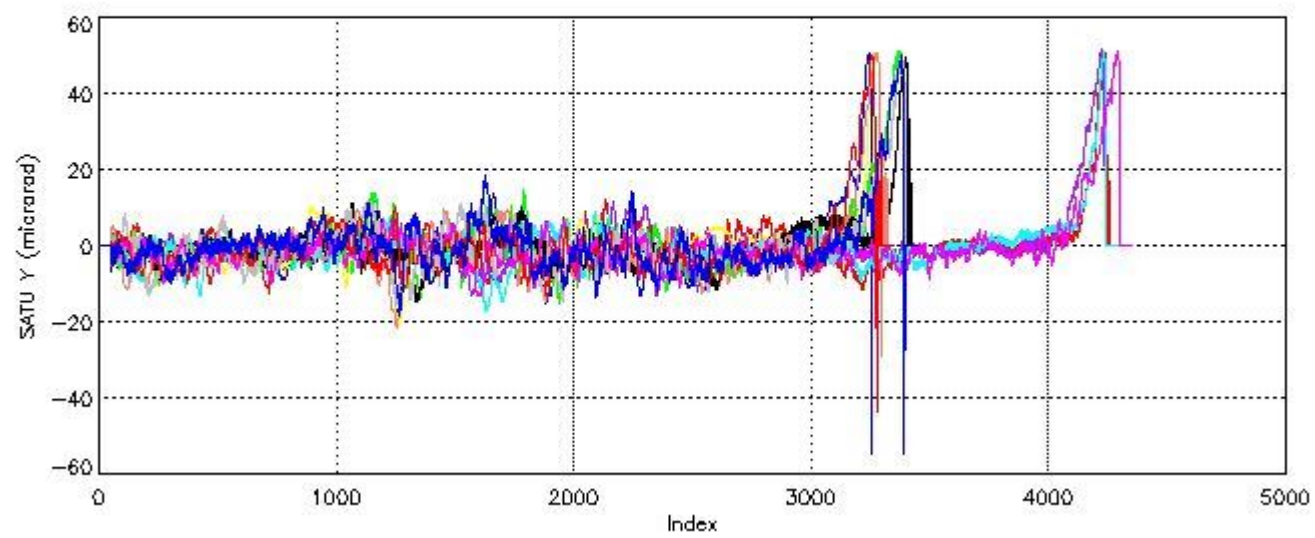
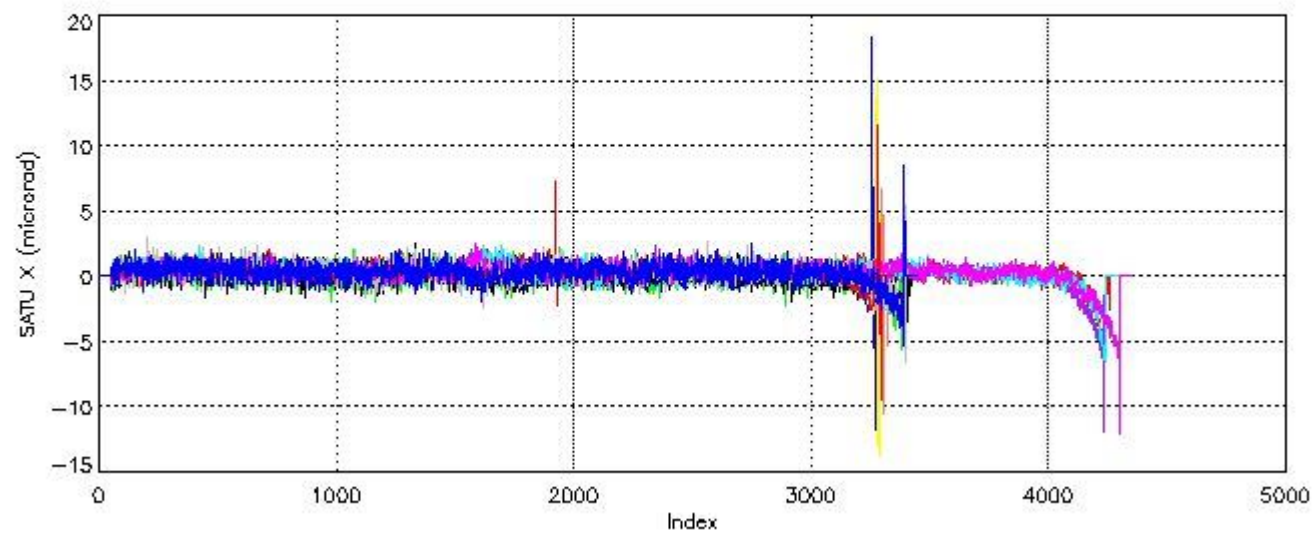


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.32066	-1.0499	0.33656	-0.89846
St. deviation:	0.40810	3.4512	0.80086	3.2839
Maximum:	2.9000	13.600	3.8000	11.700
Minimum:	-1.9000	-13.300	-2.8000	-19.800

Number of data:	14750.	14750.	16150.	16150.
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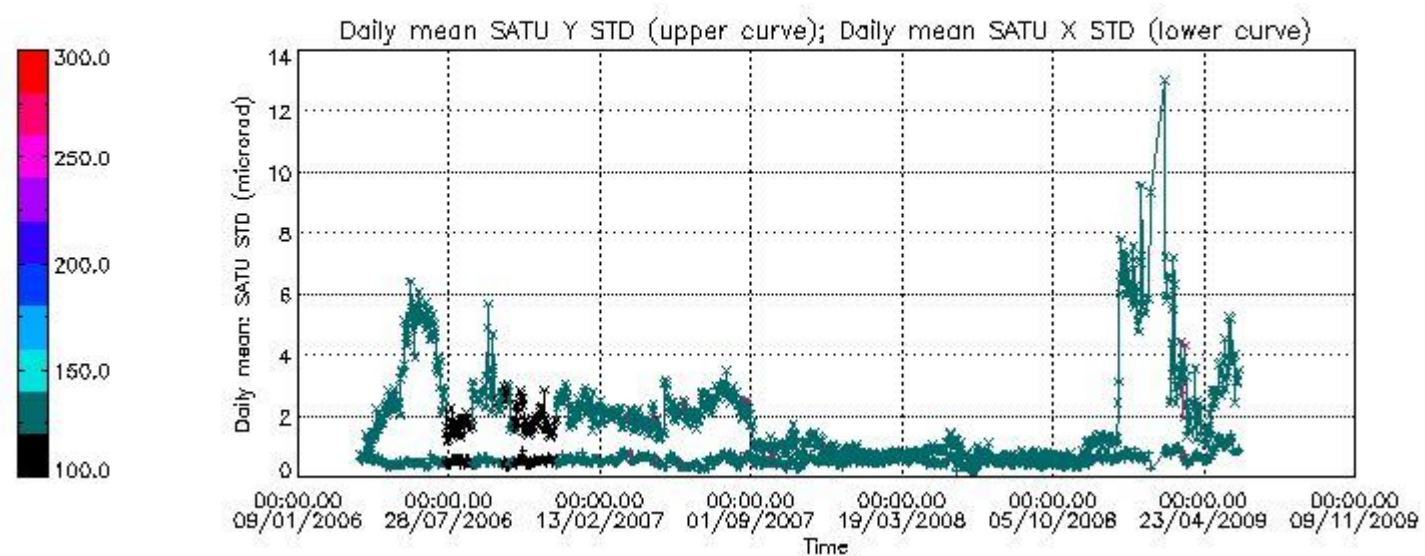
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

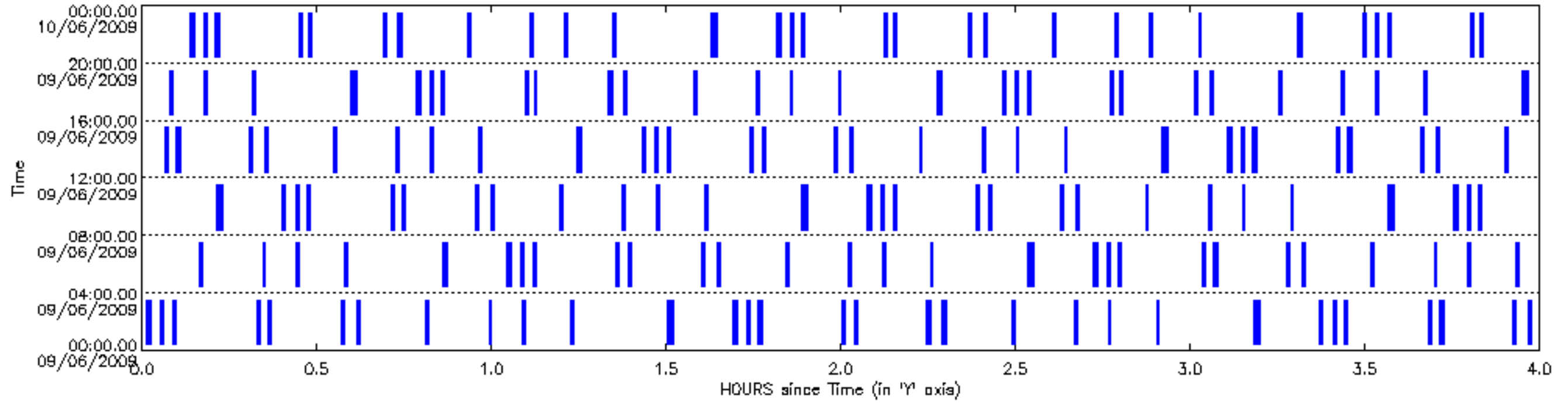
Lower curve: STD of SATU X axis



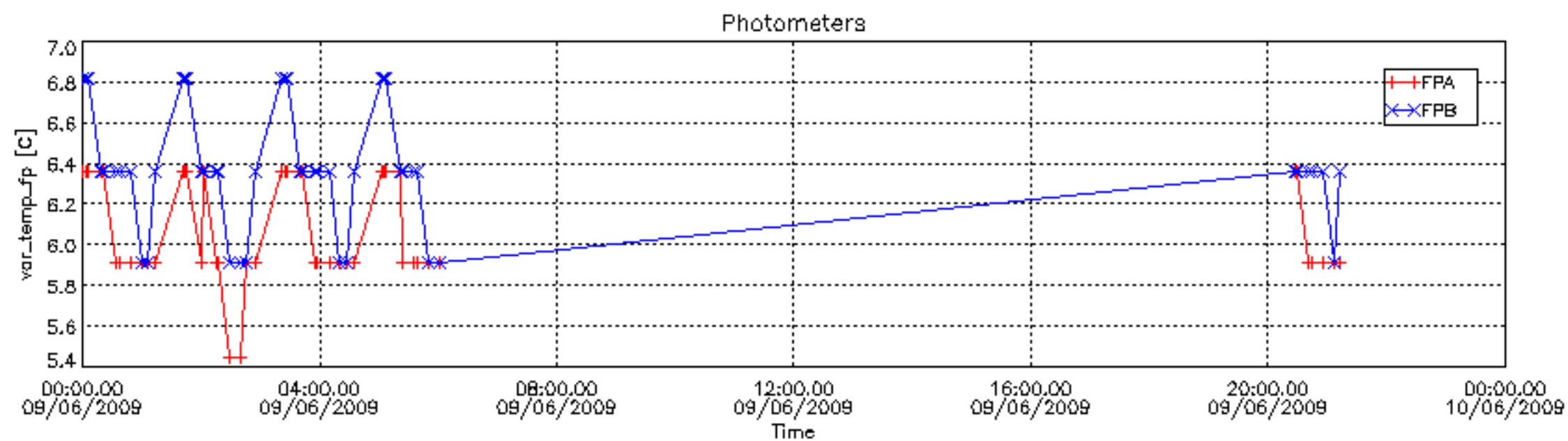
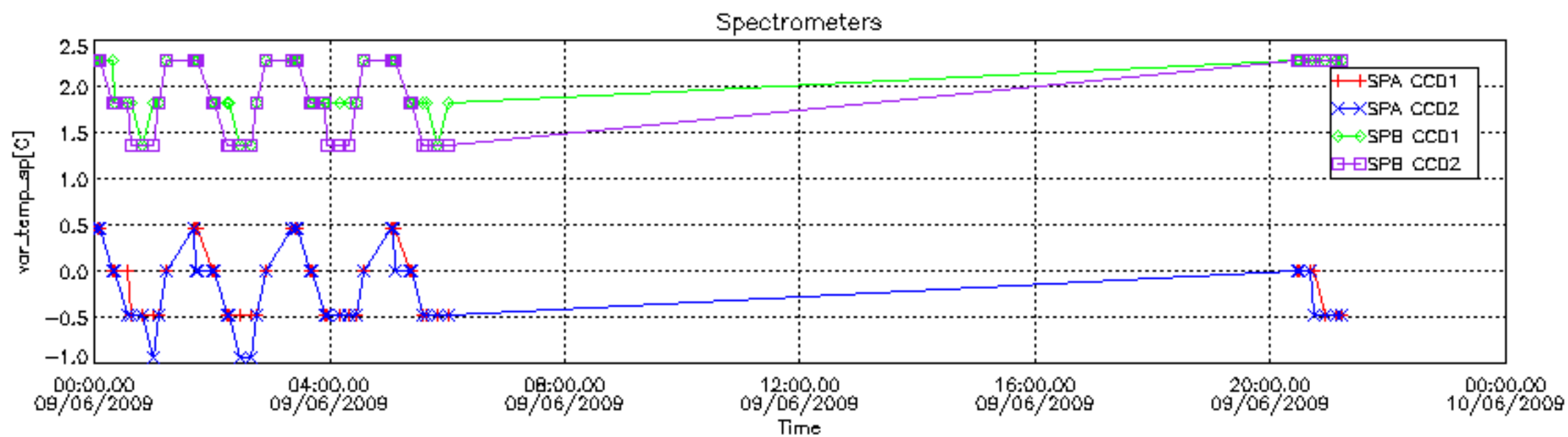
### 8. Auxiliary Data Files used for the production reported in section 2.4

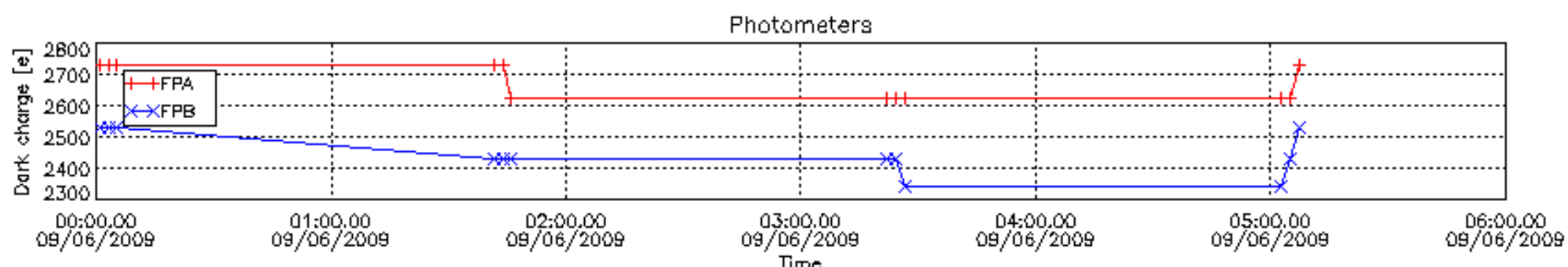
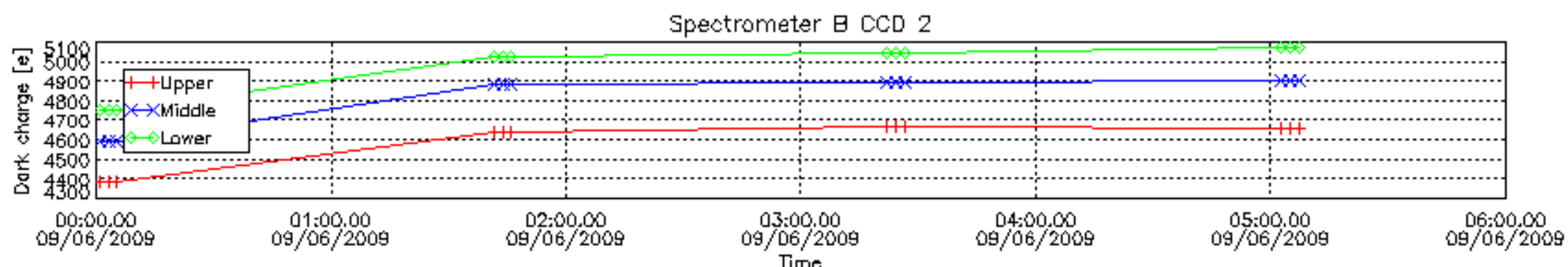
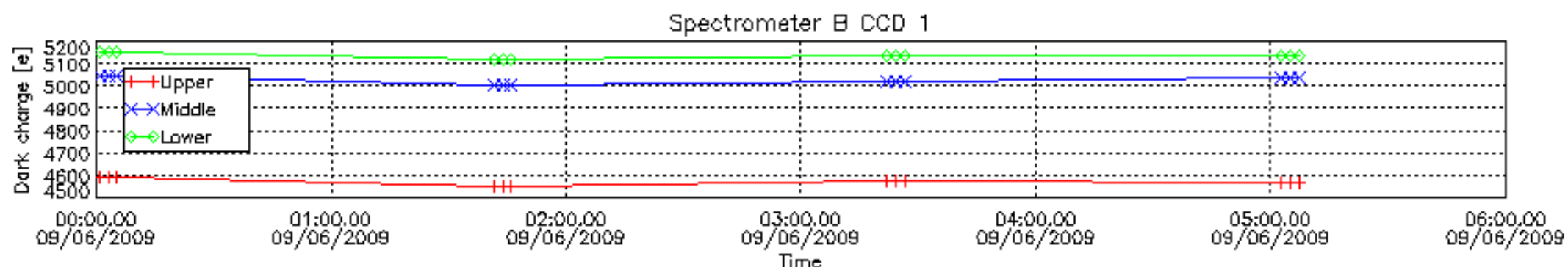
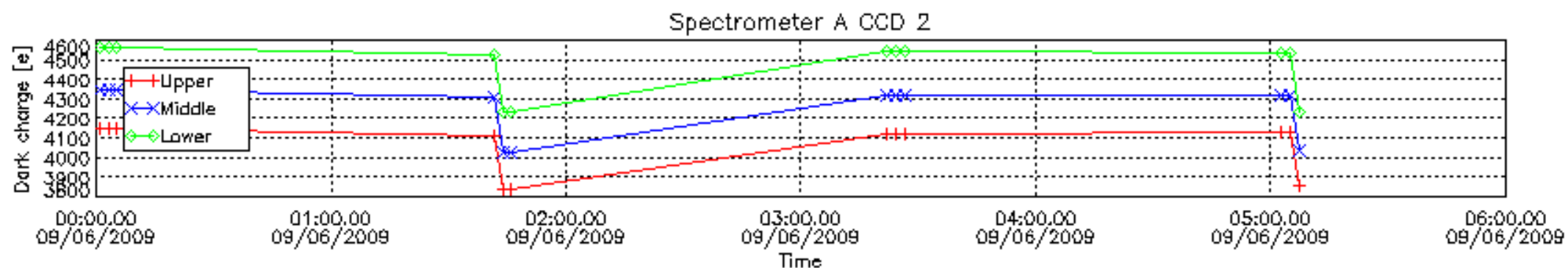
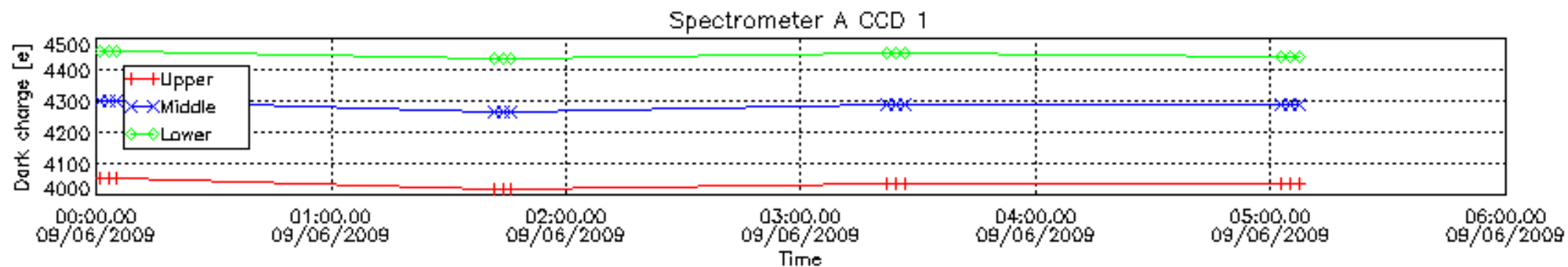
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

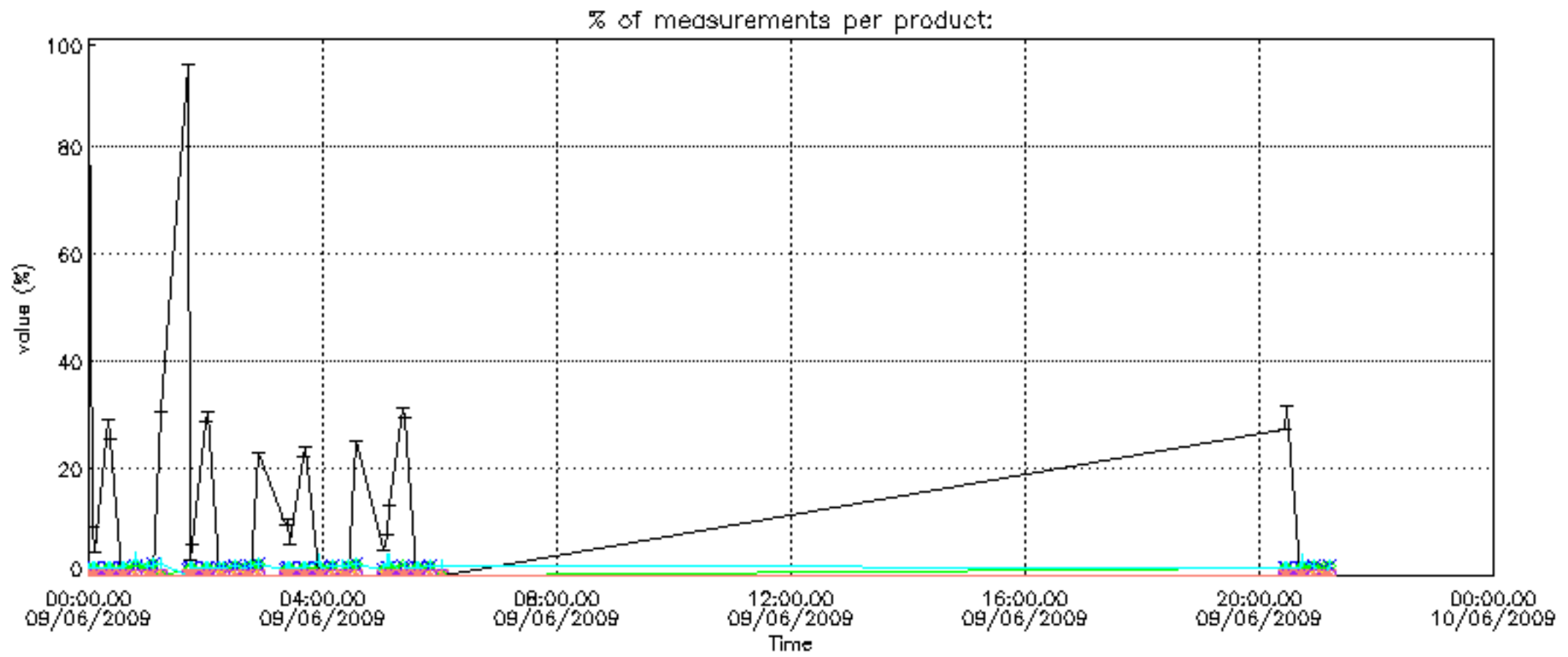
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090608_084241_20090606_000000_20100101_000000	1	09-JUN-2009 00:00:49
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-JUN-2009 00:00:49
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-JUN-2009 00:00:49
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-JUN-2009 00:00:49
ECMWF_FILE	AUX_ECF_AXNECM20090608_064112_20090608_210000_20090609_090000	1	09-JUN-2009 00:00:49
ECMWF_FILE	AUX_ECF_AXNECM20090608_182830_20090609_030000_20090609_150000	32	09-JUN-2009 04:26:31
ECMWF_FILE	AUX_ECF_AXNECM20090609_064114_20090609_150000_20090610_030000	43	09-JUN-2009 20:26:54
OPTIONAL_ECMWF_FILE	MISSING	1	09-JUN-2009 00:00:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090608_220048_000060572079_00401_38030_8113.N1	1	09-JUN-2009 00:00:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090608_234704_000057382079_00402_38031_8114.N1	12	09-JUN-2009 01:41:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090609_012242_000044632079_00403_38032_8115.N1	21	09-JUN-2009 02:45:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090609_024224_000054192079_00404_38033_8116.N1	32	09-JUN-2009 04:26:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090609_201943_000038252079_00415_38044_8118.N1	43	09-JUN-2009 20:26:54



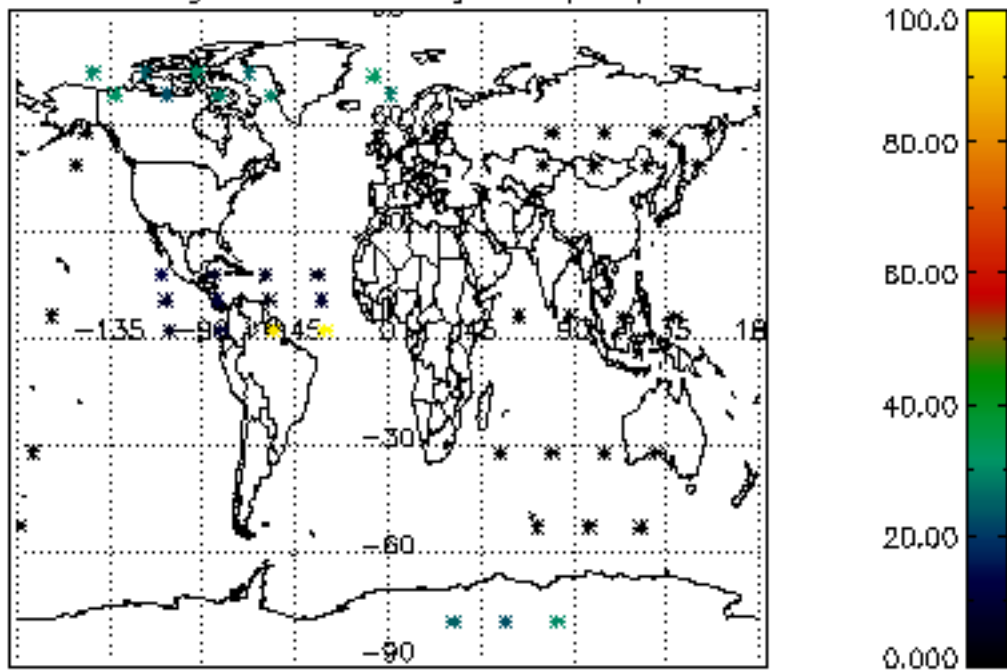




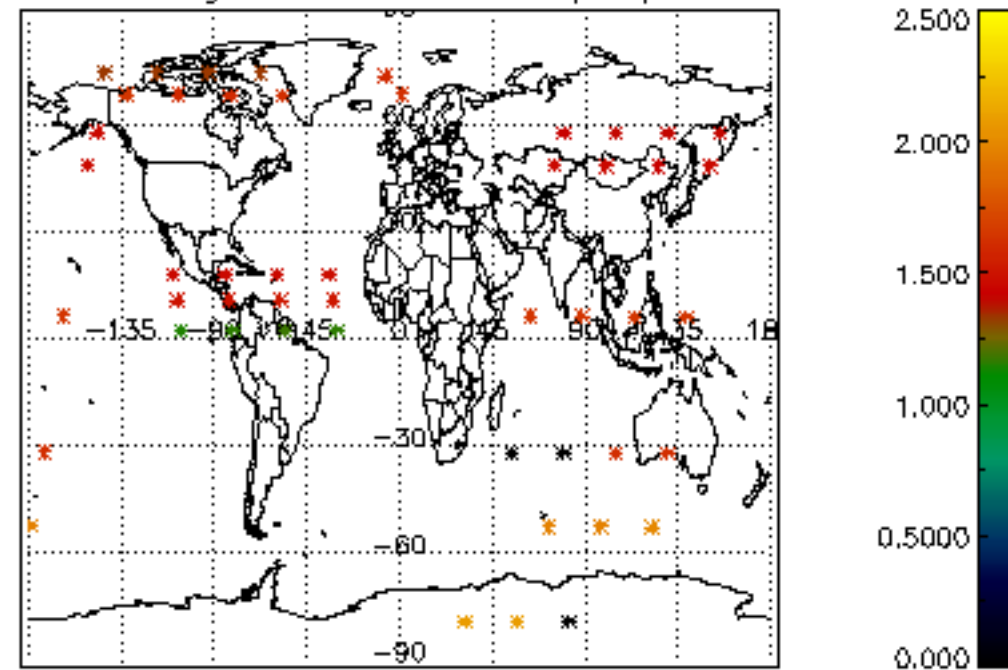




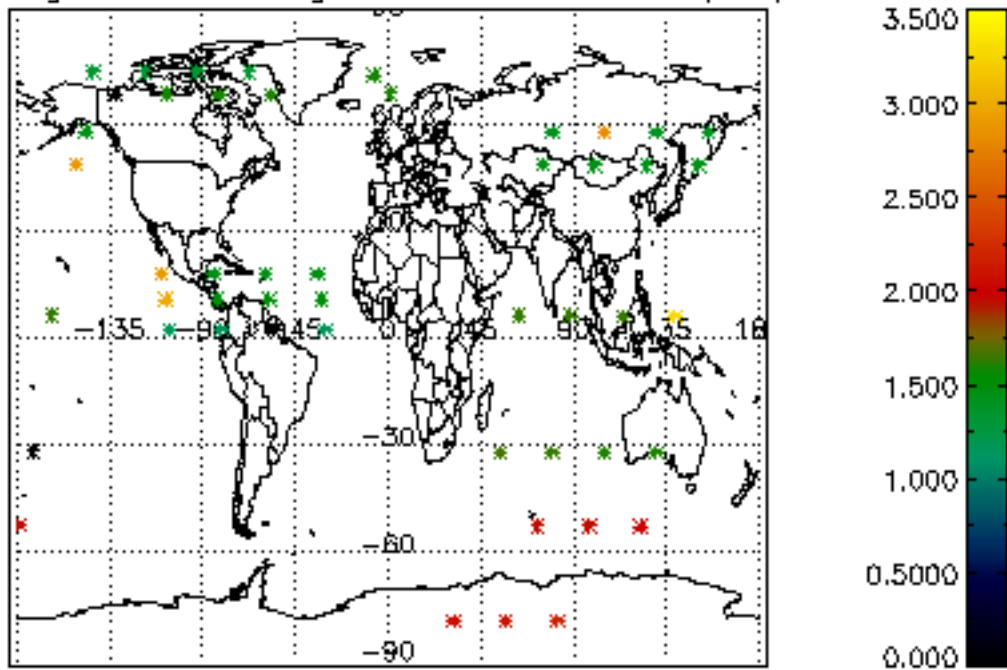
Percentage of cosmic ray hits per profile



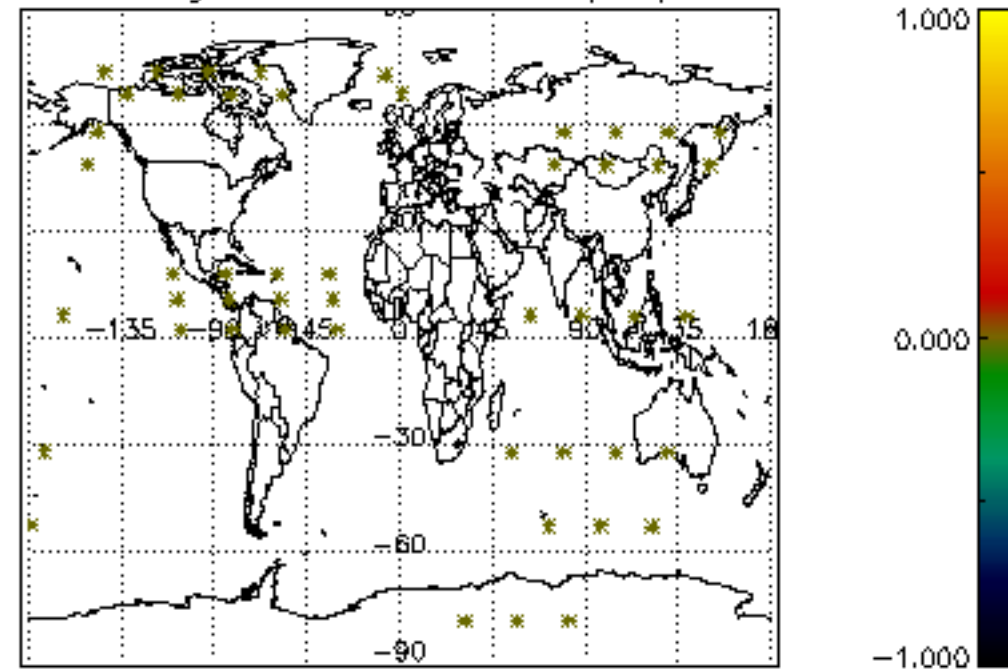
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

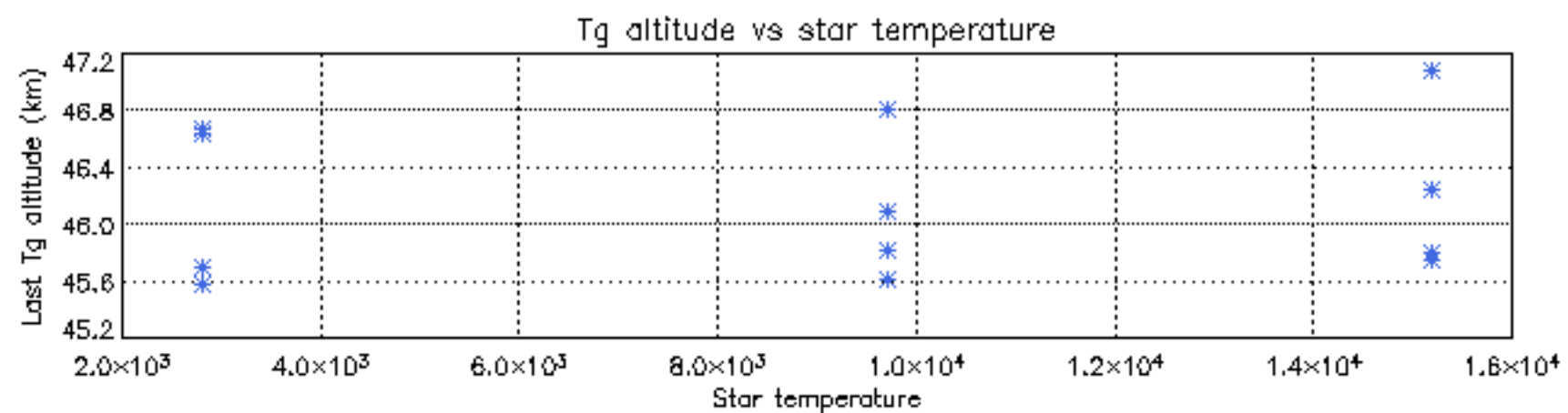
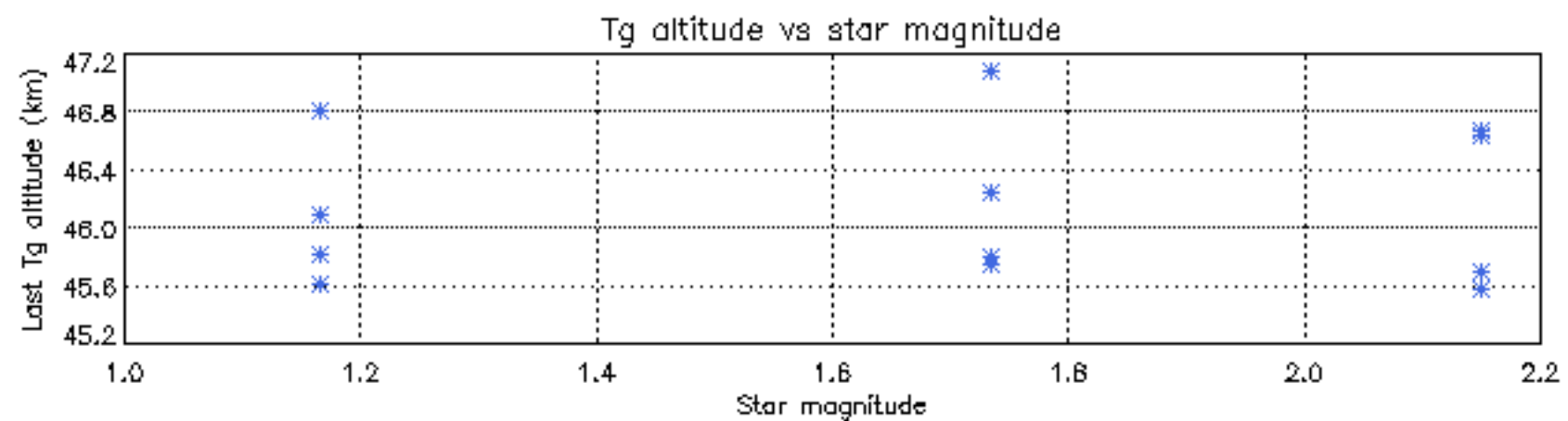
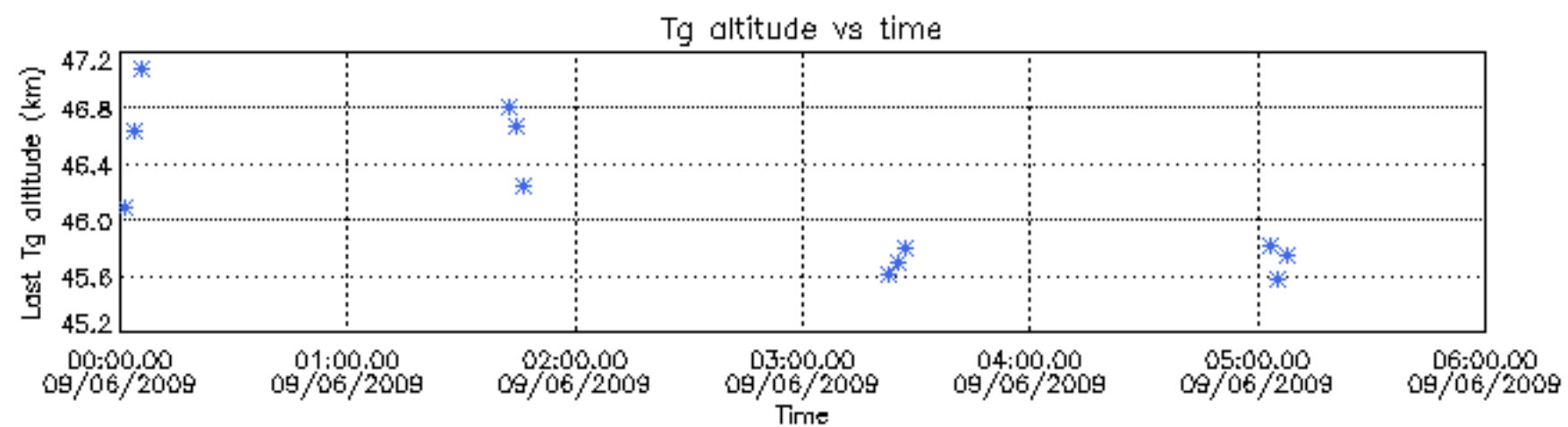


Percentage of saturation errors per profile

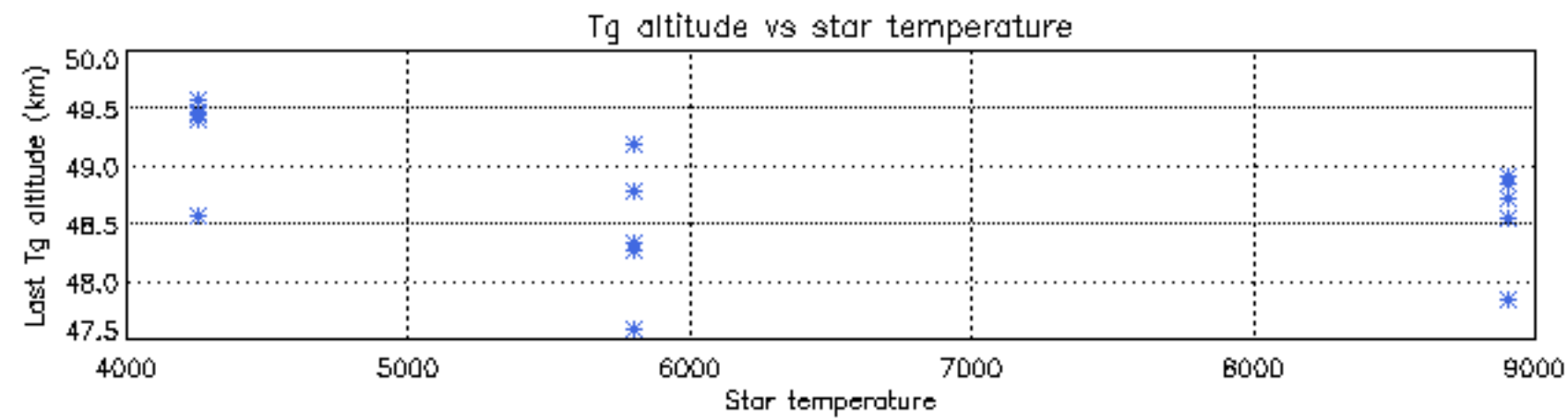
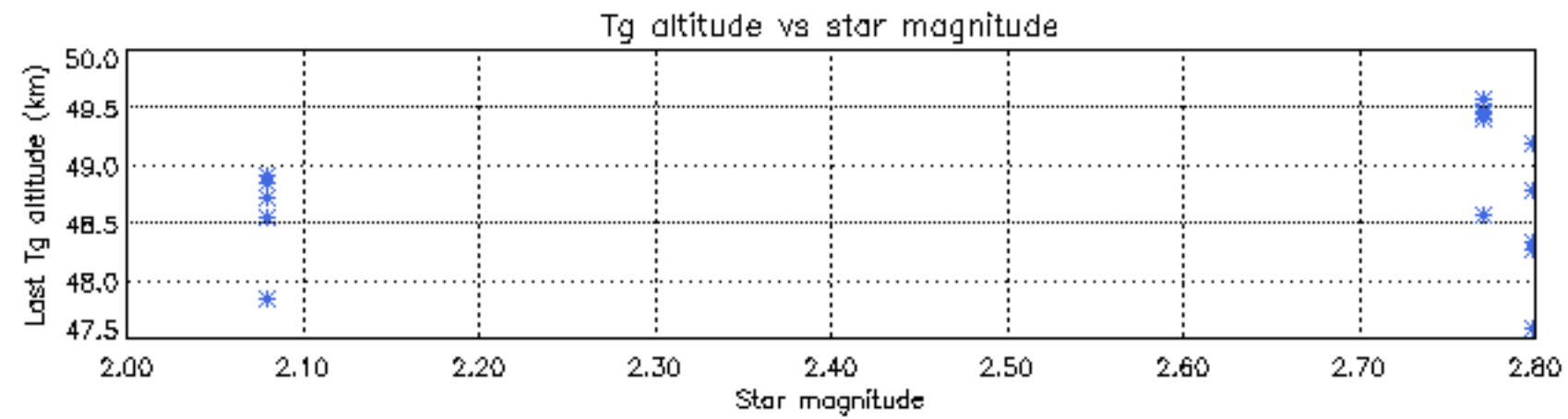
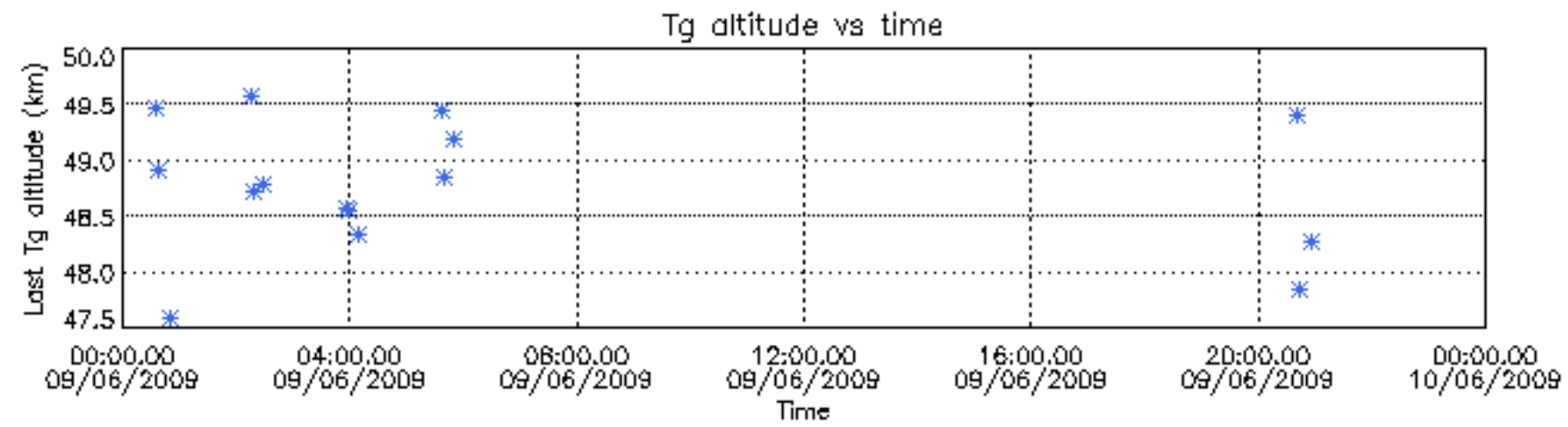


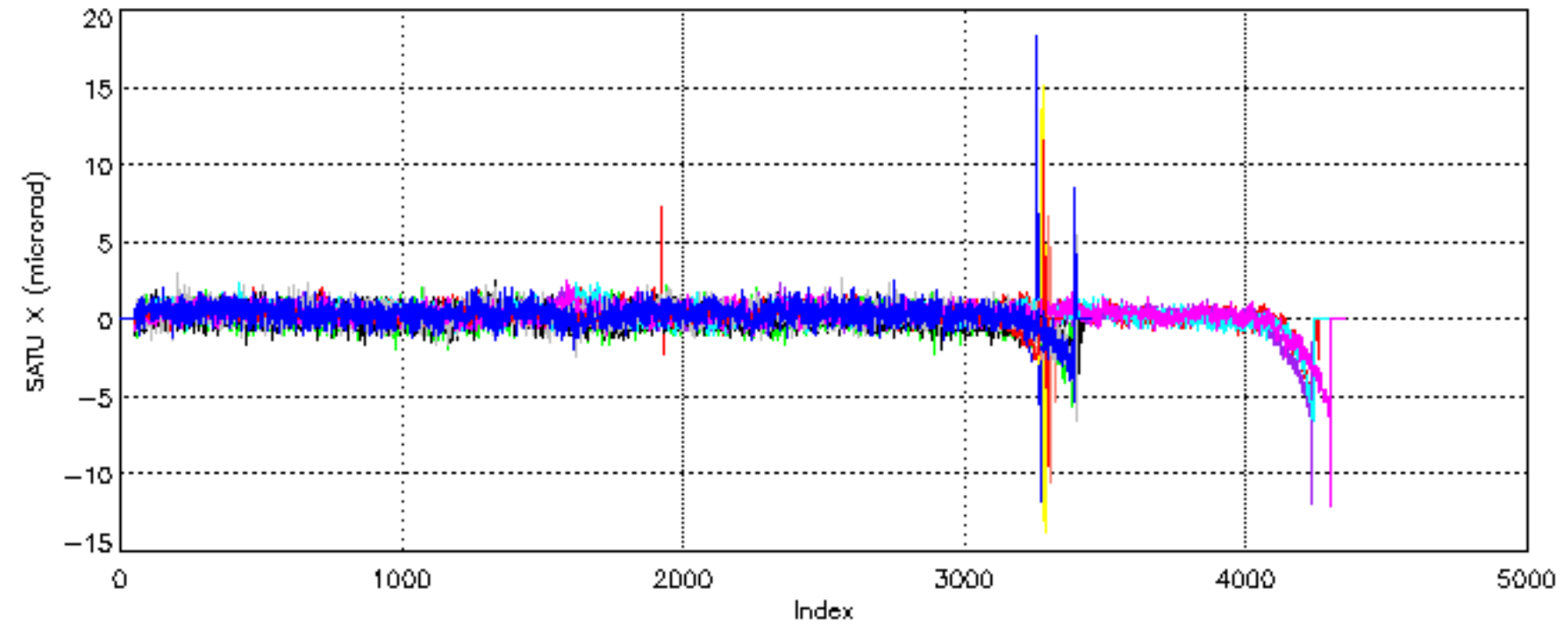


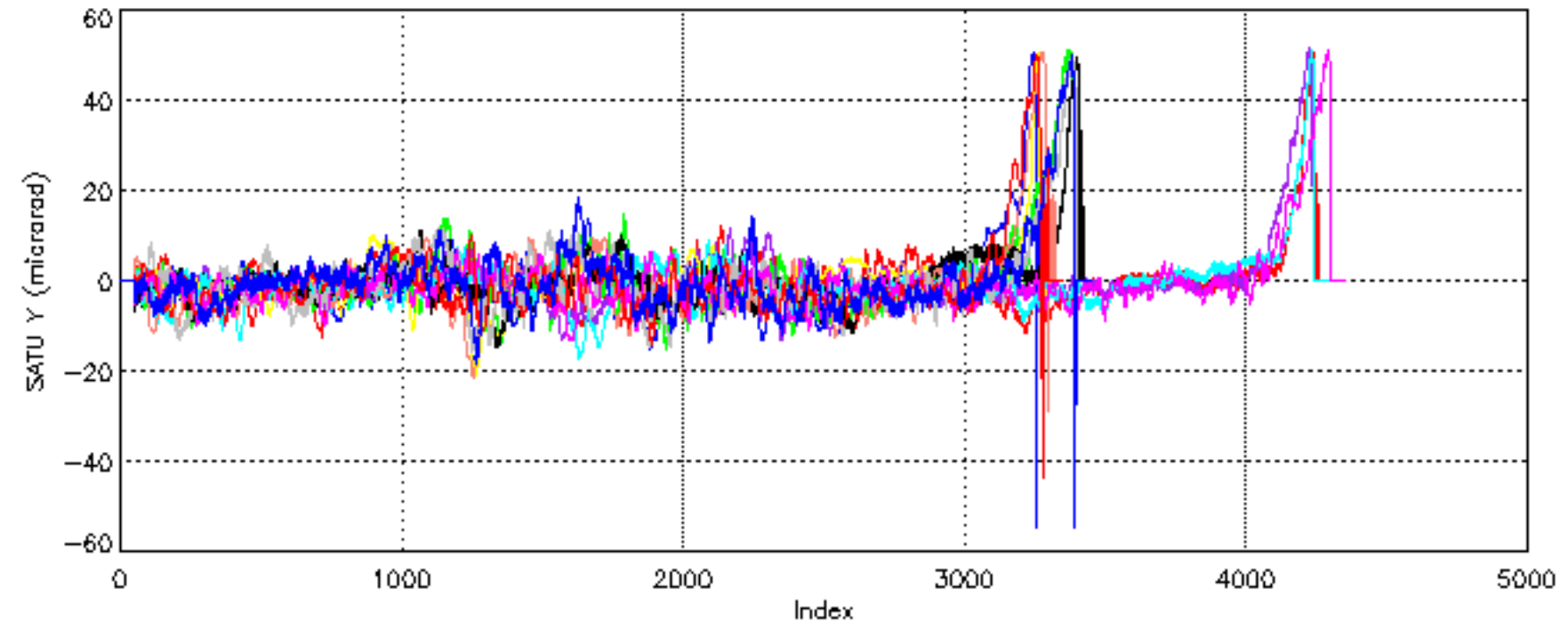
Tangent altitude at which the star is lost



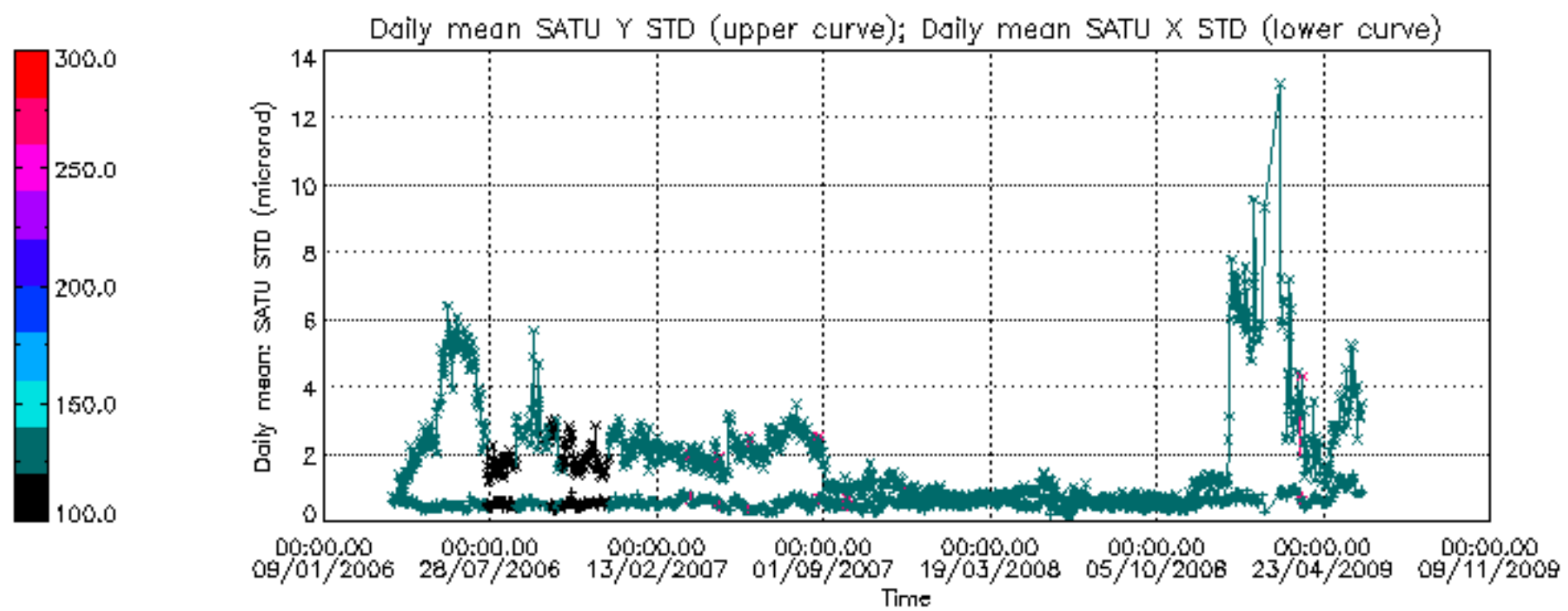
Tangent altitude at which the star is lost











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 3; 2526.3; 01-JUN-2009 08:16:27; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37922  
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 7; 4557.1; 01-JUN-2009 08:50:17; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37922  
 8; 4855.4; 01-JUN-2009 08:55:16; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37922  
 9; 5286.1; 01-JUN-2009 09:02:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37922  
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 12; 7144.4; 01-JUN-2009 09:33:25; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37922  
 13; 7246.1; 01-JUN-2009 09:35:06; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37922  
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 3; 2525.6; 01-JUN-2009 09:57:02; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37923  
 4; 2973.2; 01-JUN-2009 10:04:29; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37923  
 5; 3625.8; 01-JUN-2009 10:15:22; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37923  
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 5; 3623.7; 01-JUN-2009 15:17:07; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37926
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 8; 4857.8; 01-JUN-2009 15:37:42; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37926
 9; 5289.7; 01-JUN-2009 15:44:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37926
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 3; 2524.0; 01-JUN-2009 16:39:24; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37927
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 3; 1592.2; 01-JUN-2009 18:04:28; Bright; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;37928
 4; 2318.8; 01-JUN-2009 18:16:35; Bright; 31.5; 127; 27Bet Her ; 2.78; 4700;occ; 63; 0;37928
 5; 2523.4; 01-JUN-2009 18:19:59; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37928

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8; 3931.6; 01-JUN-2009 18:43:27; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37928
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7; 2313.2; 02-JUN-2009 22:46:40; Bright; 30.0; 127; 27Bet Her ; 2.78; 4700;occ; 60; 0;37945
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10; 3612.1; 02-JUN-2009 23:08:19; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37945
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4; 3617.1; 02-JUN-2009 09:43:36; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37937
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9; 6245.1; 02-JUN-2009 10:27:24; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37937
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4; 2945.8; 04-JUN-2009 13:30:59; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37968
5; 3597.9; 04-JUN-2009 13:41:51; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37968
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8; 4887.8; 05-JUN-2009 10:10:32; Dark ; 31.0; 140; 88Gam Peg ; 2.83; 26000;occ; 62; 0;37980
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13; 7274.3; 05-JUN-2009 10:50:19; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37980
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4; 1144.6; 06-JUN-2009 01:54:08; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;37990
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6; 1598.6; 06-JUN-2009 02:01:42; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;37990
7; 2220.0; 06-JUN-2009 02:12:04; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;37990
8; 2497.0; 06-JUN-2009 02:16:41; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;37990
9; 2933.2; 06-JUN-2009 02:23:57; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37990
10; 3584.2; 06-JUN-2009 02:34:48; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37990
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8; 1145.4; 06-JUN-2009 03:34:45; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;37991
9; 1242.7; 06-JUN-2009 03:36:22; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37991
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12; 2496.4; 06-JUN-2009 03:57:16; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37991
13; 2932.6; 06-JUN-2009 04:04:32; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37991
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5; -682.4; 06-JUN-2009 04:44:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37991
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8; 1145.9; 06-JUN-2009 05:15:21; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;37992
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13; 2495.9; 06-JUN-2009 05:37:51; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37992
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2; 1269.2; 06-JUN-2009 20:22:48; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38001
3; 1333.0; 06-JUN-2009 20:23:52; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38001
4; 1599.8; 06-JUN-2009 20:28:19; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38001
5; 2050.8; 06-JUN-2009 20:35:50; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38001
6; 2213.5; 06-JUN-2009 20:38:32; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38001
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8; 2927.1; 06-JUN-2009 20:50:26; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;38001
9; 3577.4; 06-JUN-2009 21:01:16; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38001
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11; 4401.9; 06-JUN-2009 21:15:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38001
12; 4574.2; 06-JUN-2009 21:17:53; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38001
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 3; 1150.2; 06-JUN-2009 22:01:25; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;38002  
 4; 1269.4; 06-JUN-2009 22:03:24; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38002  
 5; 1333.1; 06-JUN-2009 22:04:28; Dark ; 35.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 71; 0;38002  
 6; 1599.4; 06-JUN-2009 22:08:54; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38002  
 7; 2050.5; 06-JUN-2009 22:16:25; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38002  
 8; 2213.1; 06-JUN-2009 22:19:08; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38002  
 9; 2493.1; 06-JUN-2009 22:23:48; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38002  
 10; 2926.8; 06-JUN-2009 22:31:02; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38002  
 11; 3576.7; 06-JUN-2009 22:41:52; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38002  
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 3; 271.5; 06-JUN-2009 23:27:22; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38003  
 4; 1151.2; 06-JUN-2009 23:42:02; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38003  
 5; 1270.2; 06-JUN-2009 23:44:01; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38003  
 6; 1333.7; 06-JUN-2009 23:45:04; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38003  
 7; 1599.8; 06-JUN-2009 23:49:31; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38003  
 8; 2049.9; 06-JUN-2009 23:57:01; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38003  
 9; 2212.4; 06-JUN-2009 23:59:43; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38003  
 10; 2492.3; 07-JUN-2009 00:04:23; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38003  
 11; 2926.5; 07-JUN-2009 00:11:37; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38003  
 12; 3576.1; 07-JUN-2009 00:22:27; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38003  
 13; 3914.9; 07-JUN-2009 00:28:06; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;38003  
 14; 4402.1; 07-JUN-2009 00:36:13; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38003  
 15; 4574.6; 07-JUN-2009 00:39:05; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38003  
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 3; 2495.6; 06-JUN-2009 07:18:27; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37993  
 4; 2931.4; 06-JUN-2009 07:25:43; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37993  
 5; 3582.5; 06-JUN-2009 07:36:34; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37993  
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 7; 4401.2; 06-JUN-2009 07:50:13; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;37993  
 8; 4572.4; 06-JUN-2009 07:53:04; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;37993  
 9; 4896.1; 06-JUN-2009 07:58:28; Dark ; 31.5; 140; 88Gam Peg ; 2.83; 26000;occ; 63; 0;37993  
 10; 5355.8; 06-JUN-2009 08:06:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37993  
 11; 6016.4; 06-JUN-2009 08:17:08; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;37993  
 12; 6298.9; 06-JUN-2009 08:21:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37993  
 13; 7182.5; 06-JUN-2009 08:36:34; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;37993  
 14; 7279.9; 06-JUN-2009 08:38:11; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37993  
 15; 7635.3; 06-JUN-2009 08:44:07; Bright; 28.0; 86; 35Eta Oph ; 2.43; 10200;occ; 56; 0;37993

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 3; 272.5; 07-JUN-2009 01:07:59; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38004  
 4; 1151.5; 07-JUN-2009 01:22:38; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38004  
 5; 1270.4; 07-JUN-2009 01:24:37; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38004  
 6; 1334.3; 07-JUN-2009 01:25:41; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38004  
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 9; 2212.0; 07-JUN-2009 01:40:19; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38004  
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 11; 2925.8; 07-JUN-2009 01:52:12; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38004  
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 3; -1461.0; 07-JUN-2009 02:19:42; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38004  
 4; -1132.7; 07-JUN-2009 02:25:10; Dark ; 32.0; 140; 88Gam Peg ; 2.83; 26000;occ; 64; 0;38004



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11; 7210.7; 10-JUN-2009 13:12:58; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38053
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4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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13; 2895.6; 11-JUN-2009 06:27:38; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38064
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3; 2895.2; 11-JUN-2009 08:08:14; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38065
4; 3535.5; 11-JUN-2009 08:18:54; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38065
5; 3898.7; 11-JUN-2009 08:24:57; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38065
6; 4406.8; 11-JUN-2009 08:33:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38065
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
4; 3535.0; 11-JUN-2009 09:59:29; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38066
5; 3898.3; 11-JUN-2009 10:05:33; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;38066
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3; 89.9; 11-JUN-2009 10:42:40; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38067
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5; 334.5; 11-JUN-2009 10:46:45; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38067
6; 427.0; 11-JUN-2009 10:48:17; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38067
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3; 2023.1; 11-JUN-2009 21:18:29; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38073

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6; 3530.5; 11-JUN-2009 21:43:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38073
7; 3895.9; 11-JUN-2009 21:49:42; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38073
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5; 341.4; 11-JUN-2009 22:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38074
6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
7; 1183.0; 11-JUN-2009 22:45:05; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38074
8; 1302.2; 11-JUN-2009 22:47:04; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38074
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6; 437.5; 12-JUN-2009 00:13:15; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38075
7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
8; 1302.8; 12-JUN-2009 00:27:40; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38075
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10; 2177.9; 12-JUN-2009 00:42:16; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38075
11; 2891.0; 12-JUN-2009 00:54:09; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38075
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13; 3895.4; 12-JUN-2009 01:10:53; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38075
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4; 2179.3; 11-JUN-2009 19:40:29; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38072
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4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
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7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
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6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
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11; 2021.9; 12-JUN-2009 04:00:51; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38077
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7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
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6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
9; 2018.4; 12-JUN-2009 22:27:23; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38088
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12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
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 9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142  
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8; 416.5; 17-JUN-2009 05:57:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38150
9; 538.4; 17-JUN-2009 05:59:51; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38150
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11; 1331.8; 17-JUN-2009 06:13:04; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38150
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13; 2003.0; 17-JUN-2009 06:24:16; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38150
14; 2152.3; 17-JUN-2009 06:26:45; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38150
15; 2783.2; 17-JUN-2009 06:37:16; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38150
16; 2887.4; 17-JUN-2009 06:39:00; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38150
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5; 2150.0; 17-JUN-2009 21:32:06; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38159
6; 2775.4; 17-JUN-2009 21:42:31; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38159
7; 2883.0; 17-JUN-2009 21:44:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38159

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5; 551.8; 17-JUN-2009 22:46:04; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38160
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7; 1335.0; 17-JUN-2009 22:59:07; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38160
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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
6; 3870.7; 17-JUN-2009 08:35:59; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38151
7; 3955.5; 17-JUN-2009 08:37:24; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38151
8; 4412.6; 17-JUN-2009 08:45:01; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38151
9; 4688.0; 17-JUN-2009 08:49:36; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38151
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13; 6454.4; 17-JUN-2009 09:19:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38151
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5; 3477.1; 17-JUN-2009 10:10:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38152
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13; 6455.7; 17-JUN-2009 10:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38152

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13; 2000.4; 18-JUN-2009 04:12:00; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38163
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16; 2881.4; 18-JUN-2009 04:26:41; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38163
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 9; 556.9; 18-JUN-2009 05:28:32; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38164
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11; 1336.7; 18-JUN-2009 05:41:32; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38164
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13; 2000.2; 18-JUN-2009 05:52:36; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38164
14; 2148.8; 18-JUN-2009 05:55:04; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;occ; 60; 0;38164
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 3; 1442.9; 18-JUN-2009 20:48:42; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;38173
 4; 1998.5; 18-JUN-2009 20:57:57; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38173
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 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174  
 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174  
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 9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174  
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 19; 6622.6; 19-JUN-2009 20:02:49; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38186

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 4; 333.1; 20-JUN-2009 01:00:23; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38190  
 5; 456.2; 20-JUN-2009 01:02:26; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38190  
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 7; 1227.5; 20-JUN-2009 01:15:17; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38190  
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 9; 1447.4; 20-JUN-2009 01:18:57; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38190  
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 11; 2142.4; 20-JUN-2009 01:30:32; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38190  
 12; 2750.3; 20-JUN-2009 01:40:40; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38190  
 13; 2869.2; 20-JUN-2009 01:42:39; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38190  
 14; 3451.1; 20-JUN-2009 01:52:21; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38190  
 15; 3856.2; 20-JUN-2009 01:59:06; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38190  
 16; 3944.5; 20-JUN-2009 02:00:34; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38190  
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 19; 4635.3; 20-JUN-2009 02:12:05; Dark ; 22.5; 50; 13Alp Ari ; 2.01; 4250;occ; 45; 0;38190

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 8; 1314.6; 20-JUN-2009 02:57:20; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38191  
 9; 1447.2; 20-JUN-2009 02:59:33; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38191  
 10; 1995.1; 20-JUN-2009 03:08:41; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38191  
 11; 2142.2; 20-JUN-2009 03:11:08; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38191  
 12; 2749.3; 20-JUN-2009 03:21:15; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38191  
 13; 2868.5; 20-JUN-2009 03:23:14; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38191  
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 4; -1621.2; 20-JUN-2009 03:49:00; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38191  
 5; -1400.6; 20-JUN-2009 03:52:41; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38191  
 6; -504.1; 20-JUN-2009 04:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38191  
 7; -403.0; 20-JUN-2009 04:09:18; Dark ; 36.5; 52; 16Bet Cet ; 2.04; 4500;occ; 73; 0;38191  
 8; -48.3; 20-JUN-2009 04:15:13; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38191  
 9; 334.9; 20-JUN-2009 04:21:36; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38192  
 10; 457.6; 20-JUN-2009 04:23:39; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38192  
 11; 593.4; 20-JUN-2009 04:25:55; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38192  
 12; 1227.8; 20-JUN-2009 04:36:29; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38192

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13; 1315.1; 20-JUN-2009 04:37:57; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38192
14; 1447.7; 20-JUN-2009 04:40:09; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38192
15; 1995.2; 20-JUN-2009 04:49:17; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38192
16; 2142.2; 20-JUN-2009 04:51:44; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38192
17; 2748.4; 20-JUN-2009 05:01:50; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38192
18; 2846.0; 20-JUN-2009 05:03:27; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38192
19; 3449.7; 20-JUN-2009 05:13:31; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38192
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 3; -1764.9; 20-JUN-2009 05:27:13; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38192
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 8; -47.4; 20-JUN-2009 05:55:50; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38192
 9; 335.6; 20-JUN-2009 06:02:13; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38193
10; 458.7; 20-JUN-2009 06:04:16; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38193
11; 594.6; 20-JUN-2009 06:06:32; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38193
12; 1228.2; 20-JUN-2009 06:17:06; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38193
13; 1315.5; 20-JUN-2009 06:18:33; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38193
14; 1448.0; 20-JUN-2009 06:20:45; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38193
15; 1994.8; 20-JUN-2009 06:29:52; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38193
16; 2141.8; 20-JUN-2009 06:32:19; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38193
17; 2747.6; 20-JUN-2009 06:42:25; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38193
18; 2845.4; 20-JUN-2009 06:44:03; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38193
19; 3449.1; 20-JUN-2009 06:54:07; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38193
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 3; 1449.6; 20-JUN-2009 19:45:35; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38201
 4; 1993.8; 20-JUN-2009 19:54:39; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38201
 5; 2140.0; 20-JUN-2009 19:57:05; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38201
 6; 2741.3; 20-JUN-2009 20:07:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38201
 7; 2842.9; 20-JUN-2009 20:08:48; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38201
 8; 3443.5; 20-JUN-2009 20:18:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38201
 9; 3851.6; 20-JUN-2009 20:25:37; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38201
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11; 4271.0; 20-JUN-2009 20:32:36; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38201
12; 4415.4; 20-JUN-2009 20:35:00; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38201
13; 4637.9; 20-JUN-2009 20:38:43; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38201
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 3; -39.9; 20-JUN-2009 21:01:21; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38201
 4; 344.2; 20-JUN-2009 21:07:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38202
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 7; 1230.6; 20-JUN-2009 21:22:31; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38202
 8; 1318.3; 20-JUN-2009 21:23:59; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38202
 9; 1449.9; 20-JUN-2009 21:26:11; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38202
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11; 2139.8; 20-JUN-2009 21:37:41; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38202
12; 2740.4; 20-JUN-2009 21:47:41; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38202
13; 2842.6; 20-JUN-2009 21:49:23; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38202
14; 3442.8; 20-JUN-2009 21:59:24; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38202
15; 3851.5; 20-JUN-2009 22:06:12; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38202
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17; 4415.2; 20-JUN-2009 22:15:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38202
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 3; -38.8; 20-JUN-2009 22:41:58; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38202
 4; 345.4; 20-JUN-2009 22:48:22; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38203
 5; 468.5; 20-JUN-2009 22:50:25; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38203
 6; 606.9; 20-JUN-2009 22:52:44; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38203
 7; 1231.0; 20-JUN-2009 23:03:08; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38203

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 13; 2842.0; 20-JUN-2009 23:29:59; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38203  
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 4;-1621.0; 20-JUN-2009 07:10:12; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38193  
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 11; 595.7; 20-JUN-2009 07:47:09; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194  
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 13; 1315.6; 20-JUN-2009 07:59:09; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194  
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 9; 4414.9; 20-JUN-2009 08:50:48; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38194  
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 14; 6373.7; 20-JUN-2009 09:23:27; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38194  
 15; 6496.4; 20-JUN-2009 09:25:30; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38194  
 16; 6632.6; 20-JUN-2009 09:27:46; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194  
 17; 7264.5; 20-JUN-2009 09:38:18; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38194  
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 19; 7484.2; 20-JUN-2009 09:41:58; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38194

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2;-2120.8; 26-JUN-2009 03:52:10; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38277
3;-1970.7; 26-JUN-2009 03:54:41; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38277
4;-1765.9; 26-JUN-2009 03:58:05; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38277
5;-1616.5; 26-JUN-2009 04:00:35; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38277
6;-1377.5; 26-JUN-2009 04:04:34; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38277
7; -589.3; 26-JUN-2009 04:17:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38277
8; 29.3; 26-JUN-2009 04:28:01; Dark ; 33.0; 84; Alp Phe ; 2.40; 4500;occ; 66; 0;38278
9; 419.3; 26-JUN-2009 04:34:30; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38278
10; 539.7; 26-JUN-2009 04:36:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38278
11; 1255.3; 26-JUN-2009 04:48:26; Dark ; 26.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 53; 0;38278
12; 1339.1; 26-JUN-2009 04:49:50; Dark ; 27.0; 116; 19Del Sgr ; 2.70; 4100;occ; 54; 0;38278
13; 1467.4; 26-JUN-2009 04:51:59; Bright; 31.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 63; 0;38278
14; 1985.2; 26-JUN-2009 05:00:36; Bright; 27.5; 126; 60Bet Oph ; 2.77; 4250;occ; 55; 0;38278
15; 2127.6; 26-JUN-2009 05:02:59; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38278
16; 2689.2; 26-JUN-2009 05:12:20; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;38278
17; 2822.6; 26-JUN-2009 05:14:34; Bright; 27.0; 130; 23Bet Dra ; 2.80; 5800;occ; 54; 0;38278
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3;-1970.8; 26-JUN-2009 05:35:16; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38278
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5;-1616.6; 26-JUN-2009 05:41:11; Dark ; 24.0; 173; 4Bet Tri ; 3.00; 8900;occ; 48; 0;38278
6;-1377.3; 26-JUN-2009 05:45:10; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38278
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3; 2721.5; 26-JUN-2009 20:18:16; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;38287
4; 3319.4; 26-JUN-2009 20:28:14; Bright; 52.5; 0; ; 0.00; 0;occ; 105; 0;38287
5; 3535.3; 26-JUN-2009 20:31:50; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;38287
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2; 2241.9; 29-JUN-2009 20:16:01; Bright; 47.0; 168; 17Zet Aql ; 2.99; 11000;occ; 94; 0;38330
3; 2660.0; 29-JUN-2009 20:22:59; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;38330
4; 2938.0; 29-JUN-2009 20:27:37; Bright; 51.0; 144; 18Del Cyg ; 2.86; 11000;occ; 102; 0;38330
5; 3354.9; 29-JUN-2009 20:34:34; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38330
6; 3793.5; 29-JUN-2009 20:41:53; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38330
7; 3894.1; 29-JUN-2009 20:43:34; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;38330
8; 4267.8; 29-JUN-2009 20:49:47; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38330
9; 4423.7; 29-JUN-2009 20:52:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38330
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3; 471.4; 29-JUN-2009 21:27:07; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;38331
4; 588.9; 29-JUN-2009 21:29:04; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38331
5; 759.2; 29-JUN-2009 21:31:55; Dark ; 58.5; 172; Gam Gru ; 3.00; 13100;occ; 117; 0;38331
6; 1477.7; 29-JUN-2009 21:43:53; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38331
7; 2241.1; 29-JUN-2009 21:56:36; Bright; 51.5; 168; 17Zet Aql ; 2.99; 11000;occ; 103; 0;38331

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11; 3792.9; 29-JUN-2009 22:22:28; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38331
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13; 4267.7; 29-JUN-2009 22:30:23; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38331
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3; 472.5; 29-JUN-2009 23:07:44; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38332
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5; 760.5; 29-JUN-2009 23:12:32; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38332
6; 1478.0; 29-JUN-2009 23:24:29; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38332
7; 2240.4; 29-JUN-2009 23:37:12; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;38332
8; 2659.1; 29-JUN-2009 23:44:10; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38332
9; 2935.9; 29-JUN-2009 23:48:47; Bright; 50.5; 144; 18Del Cyg ; 2.86; 11000;occ; 101; 0;38332
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13; 4267.6; 30-JUN-2009 00:10:59; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38332
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3; 582.7; 29-JUN-2009 09:44:47; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38324
4; 751.3; 29-JUN-2009 09:47:35; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38324
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3; 2943.1; 29-JUN-2009 10:24:07; Bright; 50.5; 144; 18Del Cyg ; 2.86; 11000;occ; 101; 0;38324
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5; 3796.6; 29-JUN-2009 10:38:20; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;38324
6; 3896.5; 29-JUN-2009 10:40:00; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;38324
7; 4268.1; 29-JUN-2009 10:46:12; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;38324
8; 4423.2; 29-JUN-2009 10:48:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38324
9; 4672.5; 29-JUN-2009 10:52:56; Dark ; 42.0; 50; 13Alp Ari ; 2.01; 4250;occ; 84; 0;38324
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12; 6501.4; 29-JUN-2009 11:23:25; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;38324
13; 6619.4; 29-JUN-2009 11:25:23; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;38324
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3; 2942.1; 29-JUN-2009 12:04:42; Bright; 52.0; 144; 18Del Cyg ; 2.86; 11000;occ; 104; 0;38325
4; 3358.5; 29-JUN-2009 12:11:38; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38325
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8; 4423.5; 29-JUN-2009 12:29:23; Dark ; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;38325
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13; 6620.4; 29-JUN-2009 13:06:00; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38325
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4; 3357.7; 29-JUN-2009 13:52:13; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38326
5; 3795.8; 29-JUN-2009 13:59:31; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;38326

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3; 2661.2; 29-JUN-2009 17:01:49; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;38328
4; 2939.7; 29-JUN-2009 17:06:27; Bright; 51.5; 144; 18Del Cyg ; 2.86; 11000;occ; 103; 0;38328
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6; 3794.7; 29-JUN-2009 17:20:42; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38328
7; 3895.4; 29-JUN-2009 17:22:23; Bright; 41.5; 68; 18Alp Cas ; 2.22; 4500;occ; 83; 0;38328
8; 4267.8; 29-JUN-2009 17:28:35; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38328
9; 4423.6; 29-JUN-2009 17:31:11; Dark ; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;38328
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9; 4423.7; 29-JUN-2009 19:11:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38329
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6; 1478.2; 30-JUN-2009 01:05:05; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;38333
7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
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