

# GOMOS Daily Report 20-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	23JUN2009 04:37:02
Data source version	GOMOS/5.00
Start time of products	20JUN2009 00:00:05
Stop time of products	20JUN2009 04:36:29
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

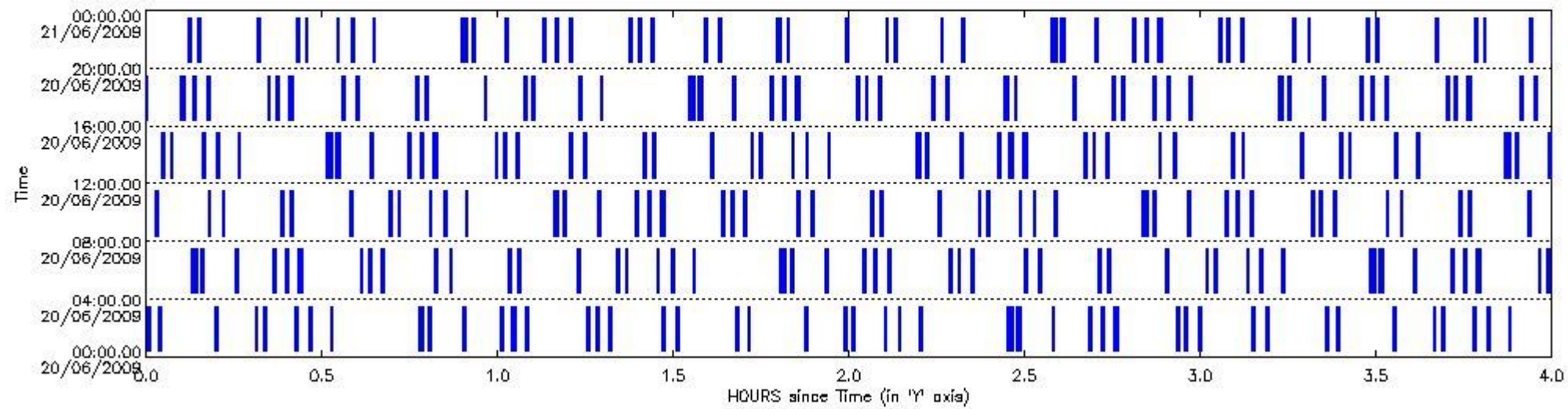
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

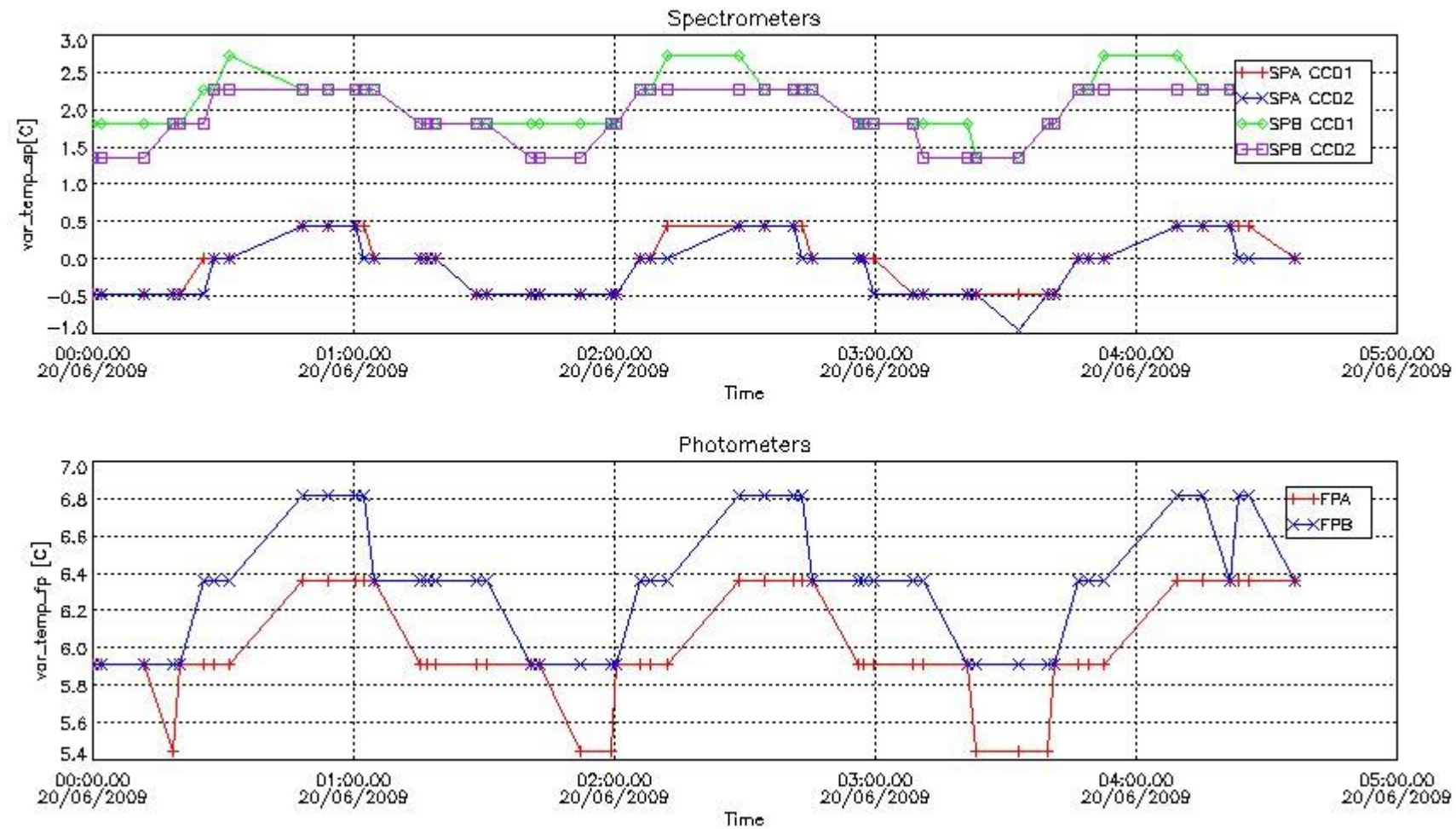
No missing products.

### 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_1PNPDE20090620_000005_000000362080_00059_38189_4392.N1	20-JUN-2009 00:00:05	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	38189	No
2	GOM_TRA_1PNPDE20090620_000203_000000292080_00059_38189_4393.N1	20-JUN-2009 00:02:03	Bright	29.000	69	33Gam Dra	2.2310	3800.0	58	38189	No
3	GOM_TRA_1PNPDE20090620_001145_000000322080_00059_38189_4394.N1	20-JUN-2009 00:11:45	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38189	No
4	GOM_TRA_1PNPDE20090620_001830_000000272080_00059_38189_4395.N1	20-JUN-2009 00:18:30	Twilight	27.000	74	11Bet Cas	2.2680	6600.0	54	38189	No
5	GOM_TRA_1PNPDE20090620_001958_000000262080_00059_38189_4396.N1	20-JUN-2009 00:19:58	Twilight	26.000	68	18Alp Cas	2.2250	4500.0	52	38189	No
6	GOM_TRA_1PNPDE20090620_002525_000000232080_00059_38189_4397.N1	20-JUN-2009 00:25:25	Twilight	22.500	73	57Gam1And	2.2600	13100.	45	38189	No
7	GOM_TRA_1PNPDE20090620_002749_000000272080_00059_38189_4398.N1	20-JUN-2009 00:27:49	Twilight	27.000	53	43Bet And	2.0480	3300.0	54	38189	No
8	GOM_TRA_1PNPDE20090620_003129_000000232080_00059_38189_4399.N1	20-JUN-2009 00:31:29	Twilight	23.000	50	13Alp Ari	2.0070	4250.0	46	38189	No
9	GOM_TRA_1PNPDE20090620_004804_000000372080_00059_38189_4540.N1	20-JUN-2009 00:48:04	Dark	36.500	52	16Bet Cet	2.0370	4500.0	73	38189	No
10	GOM_TRA_1PNPDE20090620_005400_000000312080_00059_38189_4541.N1	20-JUN-2009 00:54:00	Dark	30.500	84	Alp Phe	2.3970	4500.0	61	38189	No
11	GOM_TRA_1PNPDE20090620_010023_000000342080_00060_38190_4542.N1	20-JUN-2009 01:00:23	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38190	No
12	GOM_TRA_1PNPDE20090620_010226_000000342080_00060_38190_4543.N1	20-JUN-2009 01:02:26	Straylight	34.000	31	Alp Gru	1.7340	15200.	68	38190	No

13	GOM_TRA_1PNPDE20090620_010440_000000422080_00060_38190_4544.N1	20-JUN-2009 01:04:40	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38190	No
14	GOM_TRA_1PNPDE20090620_011517_000000282080_00060_38190_4545.N1	20-JUN-2009 01:15:17	Twilight	28.000	38	20Eps Sgr	1.8360	11000.	56	38190	No
15	GOM_TRA_1PNPDE20090620_011644_000000292080_00060_38190_4546.N1	20-JUN-2009 01:16:44	Twilight	28.500	116	19Del Sgr	2.7000	4100.0	57	38190	No
16	GOM_TRA_1PNPDE20090620_011857_000000352080_00060_38190_4547.N1	20-JUN-2009 01:18:57	Twilight	35.000	155	41Pi Sgr	2.9000	6600.0	70	38190	No
17	GOM_TRA_1PNPDE20090620_012805_000000292080_00060_38190_4548.N1	20-JUN-2009 01:28:05	Twilight	29.000	126	60Bet Oph	2.7700	4250.0	58	38190	No
18	GOM_TRA_1PNPDE20090620_013032_000000302080_00060_38190_4549.N1	20-JUN-2009 01:30:32	Bright	29.500	59	55Alp Oph	2.0800	8900.0	59	38190	No
19	GOM_TRA_1PNPDE20090620_014040_000000352080_00060_38190_4550.N1	20-JUN-2009 01:40:40	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	38190	No
20	GOM_TRA_1PNPDE20090620_014239_000000302080_00060_38190_4551.N1	20-JUN-2009 01:42:39	Bright	29.500	69	33Gam Dra	2.2310	3800.0	59	38190	No
21	GOM_TRA_1PNPDE20090620_015221_000000322080_00060_38190_4552.N1	20-JUN-2009 01:52:21	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38190	No
22	GOM_TRA_1PNPDE20090620_015906_000000272080_00060_38190_4553.N1	20-JUN-2009 01:59:06	Twilight	27.000	74	11Bet Cas	2.2680	6600.0	54	38190	No
23	GOM_TRA_1PNPDE20090620_020034_000000262080_00060_38190_4554.N1	20-JUN-2009 02:00:34	Twilight	26.000	68	18Alp Cas	2.2250	4500.0	52	38190	No
24	GOM_TRA_1PNPDE20090620_020601_000000232080_00060_38190_4555.N1	20-JUN-2009 02:06:01	Twilight	22.500	73	57Gam1And	2.2600	13100.	45	38190	No
25	GOM_TRA_1PNPDE20090620_020824_000000272080_00060_38190_4556.N1	20-JUN-2009 02:08:24	Twilight	27.000	53	43Bet And	2.0480	3300.0	54	38190	No
26	GOM_TRA_1PNPDE20090620_021205_000000232080_00060_38190_4557.N1	20-JUN-2009 02:12:05	Twilight	22.500	50	13Alp Ari	2.0070	4250.0	45	38190	No
27	GOM_TRA_1PNPDE20090620_022841_000000372080_00060_38190_4656.N1	20-JUN-2009 02:28:41	Dark	36.500	52	16Bet Cet	2.0370	4500.0	73	38190	No
28	GOM_TRA_1PNPDE20090620_023437_000000312080_00060_38190_4657.N1	20-JUN-2009 02:34:37	Dark	30.500	84	Alp Phe	2.3970	4500.0	61	38190	No
29	GOM_TRA_1PNPDE20090620_024059_000000352080_00061_38191_4658.N1	20-JUN-2009 02:40:59	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38191	No
30	GOM_TRA_1PNPDE20090620_024302_000000342080_00061_38191_4659.N1	20-JUN-2009 02:43:02	Straylight	34.000	31	Alp Gru	1.7340	15200.	68	38191	No
31	GOM_TRA_1PNPDE20090620_024518_000000422080_00061_38191_4660.N1	20-JUN-2009 02:45:18	Straylight	41.500	172	Gam Gru	3.0030	13100.	83	38191	No
32	GOM_TRA_1PNPDE20090620_025553_000000282080_00061_38191_4661.N1	20-JUN-2009 02:55:53	Twilight	28.000	38	20Eps Sgr	1.8360	11000.	56	38191	No
33	GOM_TRA_1PNPDE20090620_025720_000000292080_00061_38191_4662.N1	20-JUN-2009 02:57:20	Twilight	28.500	116	19Del Sgr	2.7000	4100.0	57	38191	No
34	GOM_TRA_1PNPDE20090620_025933_000000362080_00061_38191_4663.N1	20-JUN-2009 02:59:33	Twilight	35.500	155	41Pi Sgr	2.9000	6600.0	71	38191	No
35	GOM_TRA_1PNPDE20090620_030841_000000302080_00061_38191_4664.N1	20-JUN-2009 03:08:41	Twilight	29.500	126	60Bet Oph	2.7700	4250.0	59	38191	No
36	GOM_TRA_1PNPDE20090620_031108_000000302080_00061_38191_4665.N1	20-JUN-2009 03:11:08	Bright	29.500	59	55Alp Oph	2.0800	8900.0	59	38191	No
37	GOM_TRA_1PNPDE20090620_032115_000000362080_00061_38191_4666.N1	20-JUN-2009 03:21:15	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	38191	No
38	GOM_TRA_1PNPDE20090620_032314_000000302080_00061_38191_4667.N1	20-JUN-2009 03:23:14	Bright	29.500	69	33Gam Dra	2.2310	3800.0	59	38191	No
39	GOM_TRA_1PNPDE20090620_033256_000000312080_00061_38191_4668.N1	20-JUN-2009 03:32:56	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38191	No
40	GOM_TRA_1PNPDE20090620_033941_000000272080_00061_38191_4829.N1	20-JUN-2009 03:39:41	Twilight	27.000	74	11Bet Cas	2.2680	6600.0	54	38191	No
41	GOM_TRA_1PNPDE20090620_034110_000000262080_00061_38191_4830.N1	20-JUN-2009 03:41:10	Twilight	26.000	68	18Alp Cas	2.2250	4500.0	52	38191	No
42	GOM_TRA_1PNPDE20090620_034636_000000232080_00061_38191_4831.N1	20-JUN-2009 03:46:36	Twilight	22.500	73	57Gam1And	2.2600	13100.	45	38191	No
43	GOM_TRA_1PNPDE20090620_034900_000000272080_00061_38191_4832.N1	20-JUN-2009 03:49:00	Twilight	27.000	53	43Bet And	2.0480	3300.0	54	38191	No
44	GOM_TRA_1PNPDE20090620_035241_000000242080_00061_38191_4833.N1	20-JUN-2009 03:52:41	Twilight	23.500	50	13Alp Ari	2.0070	4250.0	47	38191	No
45	GOM_TRA_1PNPDE20090620_040918_000000372080_00061_38191_4834.N1	20-JUN-2009 04:09:18	Dark	36.500	52	16Bet Cet	2.0370	4500.0	73	38191	No
46	GOM_TRA_1PNPDE20090620_041513_000000312080_00061_38191_4835.N1	20-JUN-2009 04:15:13	Dark	31.000	84	Alp Phe	2.3970	4500.0	62	38191	No
47	GOM_TRA_1PNPDE20090620_042136_000000342080_00062_38192_4836.N1	20-JUN-2009 04:21:36	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38192	No
48	GOM_TRA_1PNPDE20090620_042339_000000352080_00062_38192_4837.N1	20-JUN-2009 04:23:39	Straylight	34.500	31	Alp Gru	1.7340	15200.	69	38192	No
49	GOM_TRA_1PNPDE20090620_042555_000000422080_00062_38192_4838.N1	20-JUN-2009 04:25:55	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38192	No
50	GOM_TRA_1PNPDE20090620_043629_000000282080_00062_38192_4839.N1	20-JUN-2009 04:36:29	Twilight	28.000	38	20Eps Sgr	1.8360	11000.	56	38192	No

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



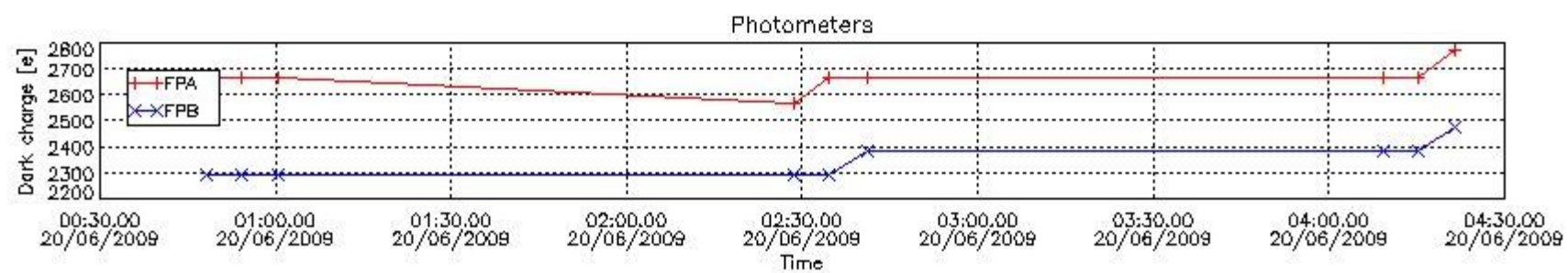
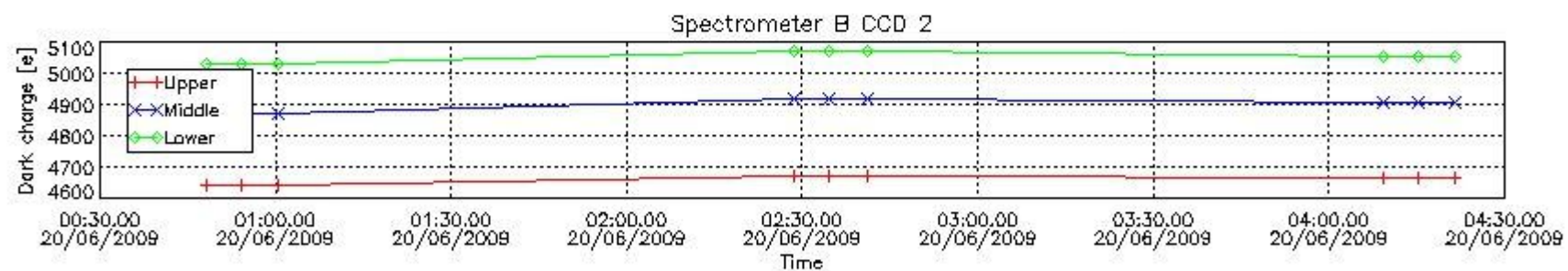
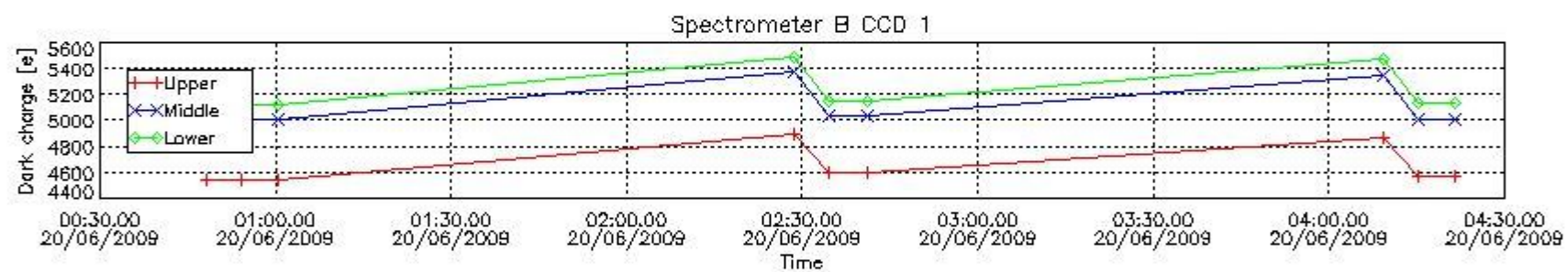
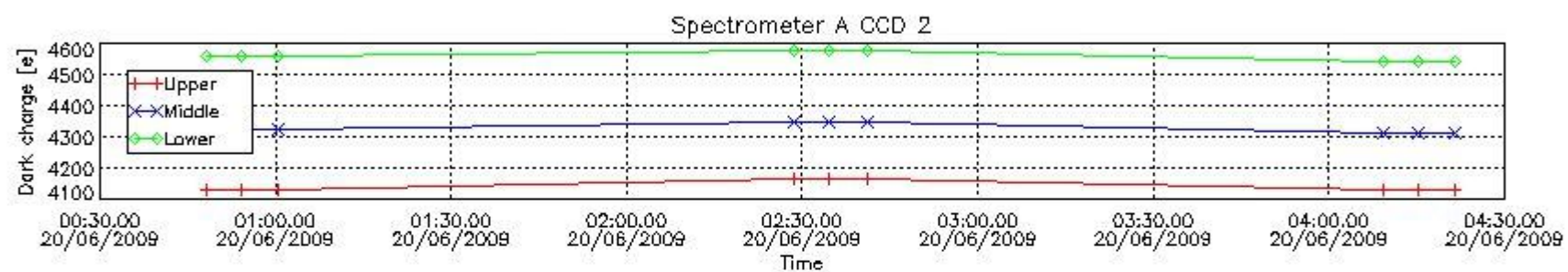
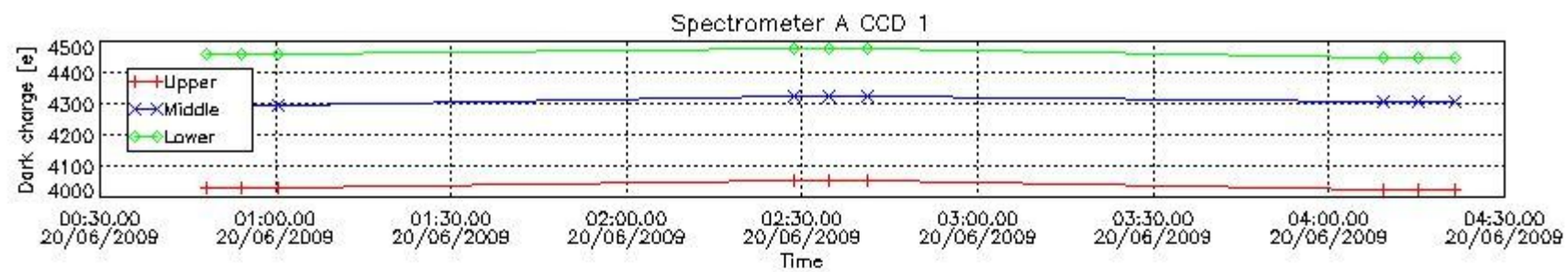
#### 4. Overview of dark signal processing per product

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



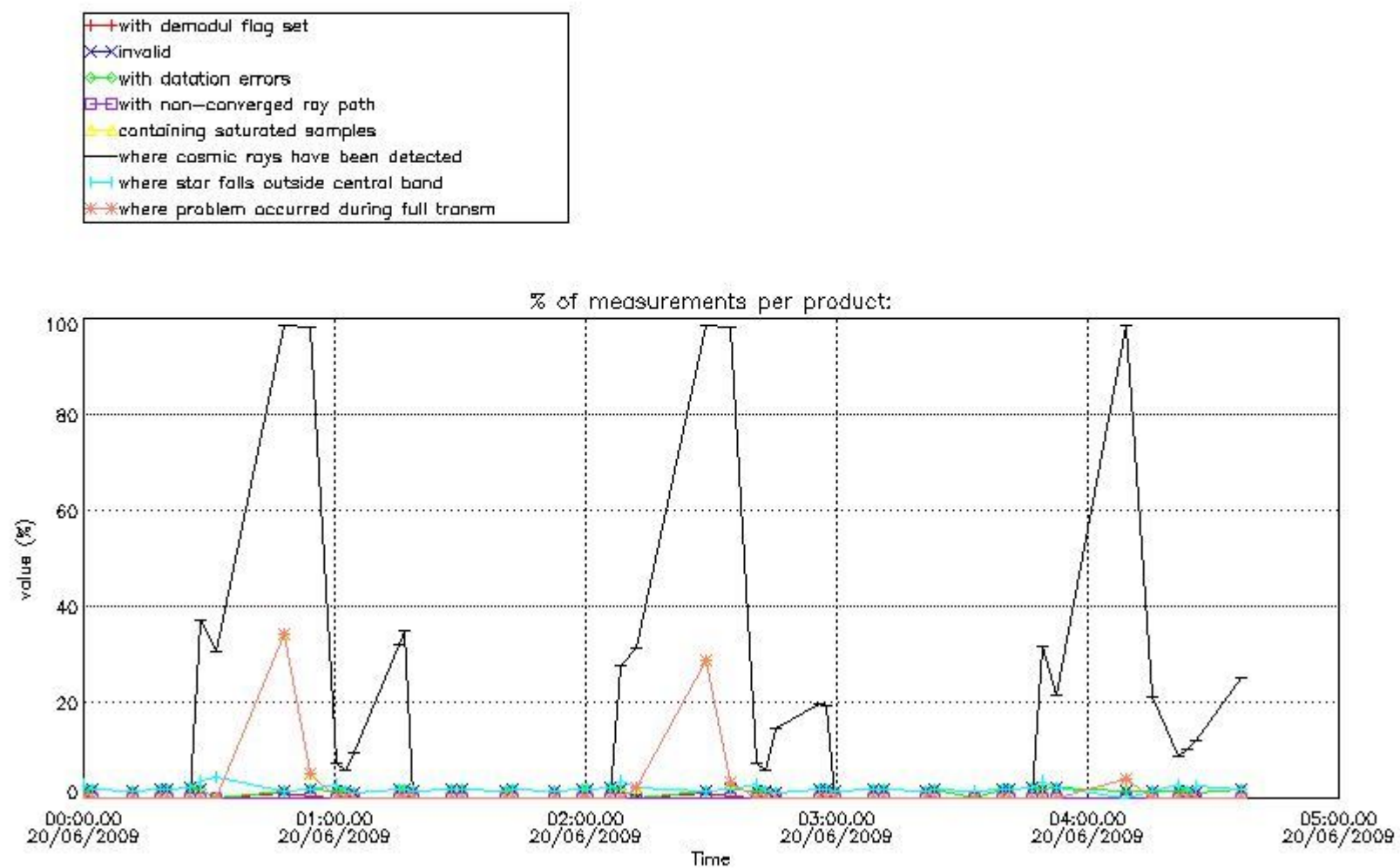
## 5. Demodulation flag and quality information monitoring

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.

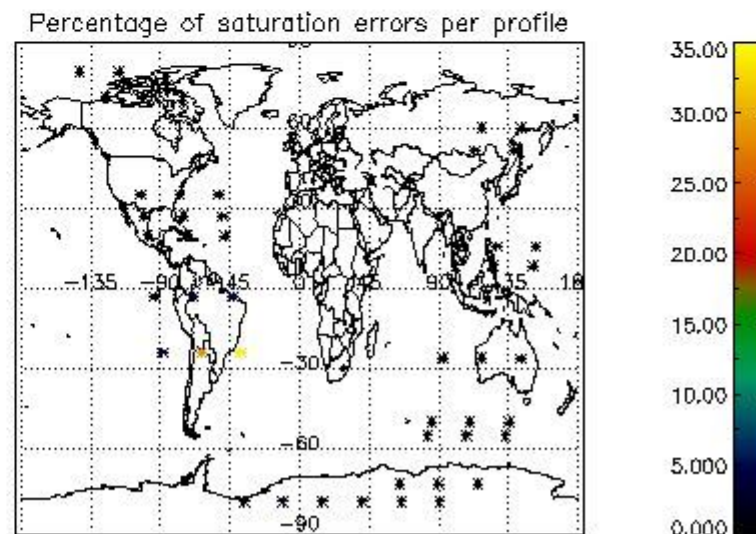
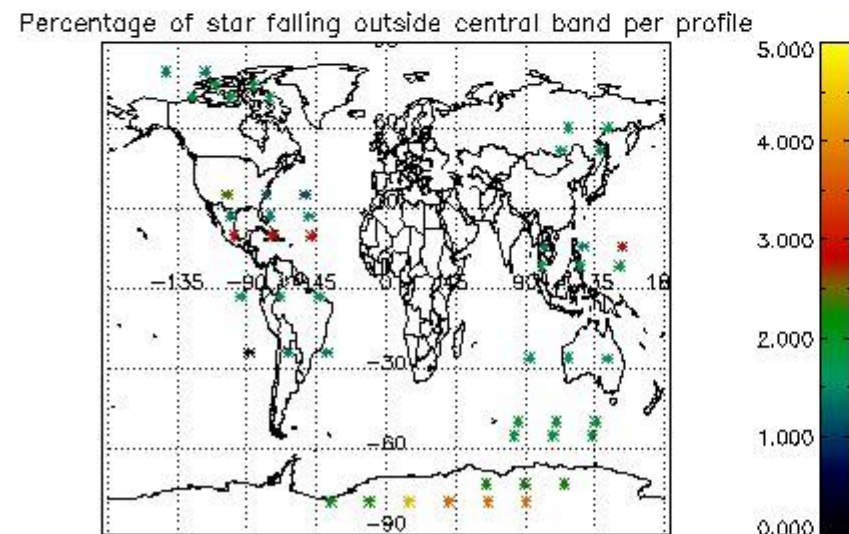
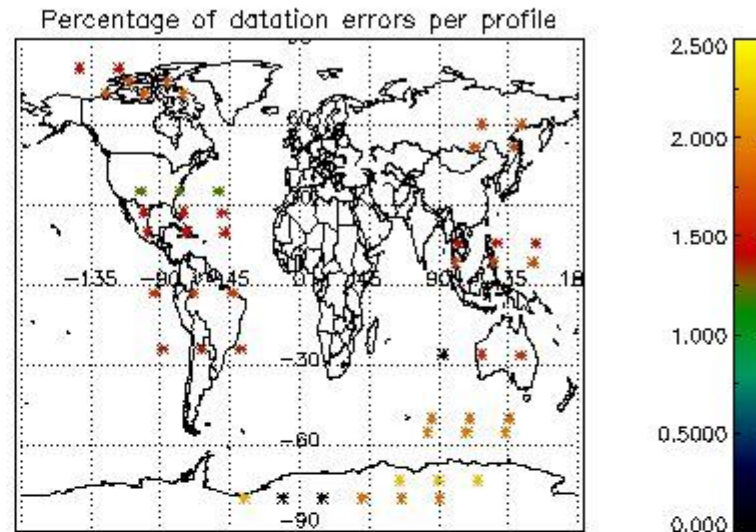
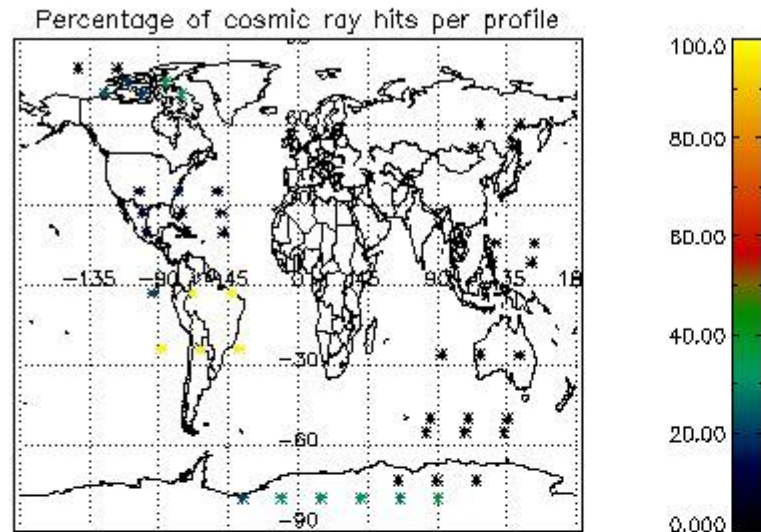
### 5.1 Percentage of products during reporting period with:

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

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



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



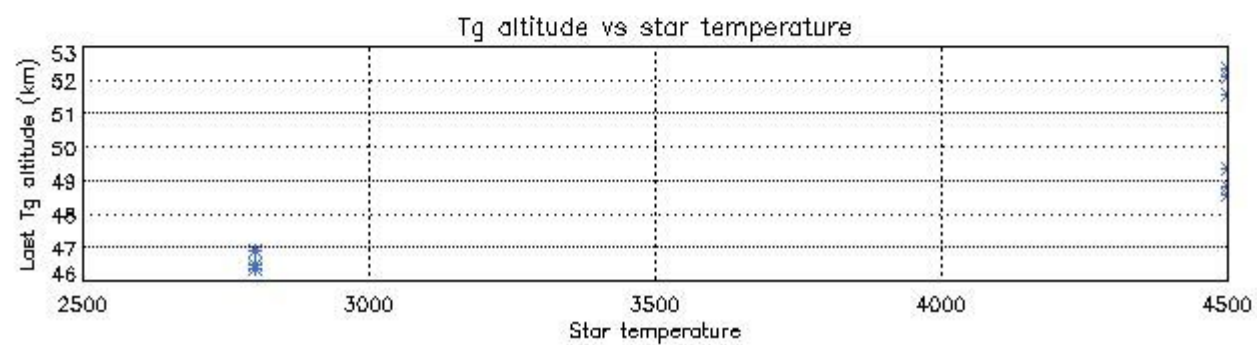
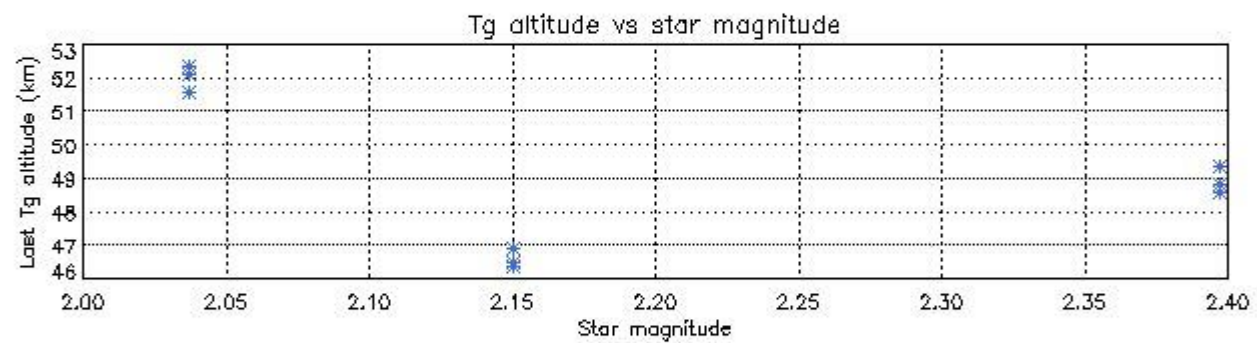
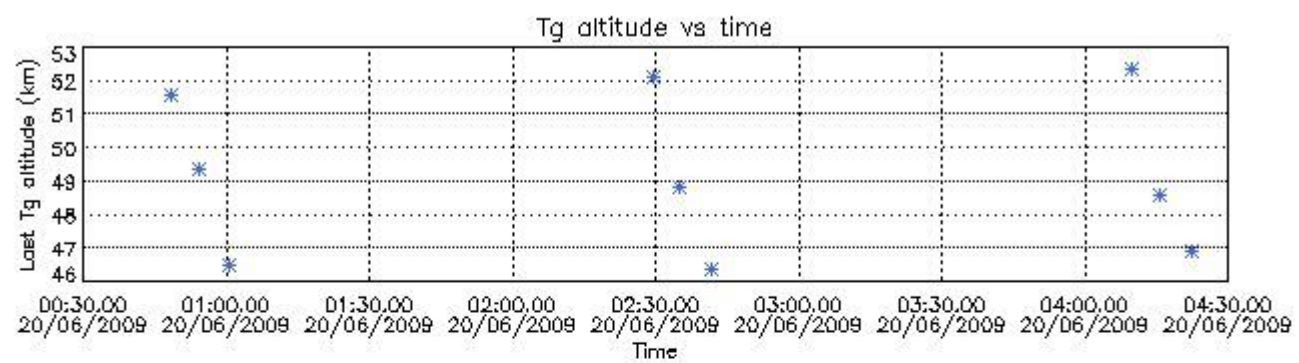
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	49.164	48.363	67.718
St. deviation:	2.3753	1.0166	1.0078
Maximum:	52.337	49.324	68.699
Minimum:	46.385	46.750	66.685
Number of data:	9.0000	8.0000	3.0000

### 6.2 Plot for DARK limb products

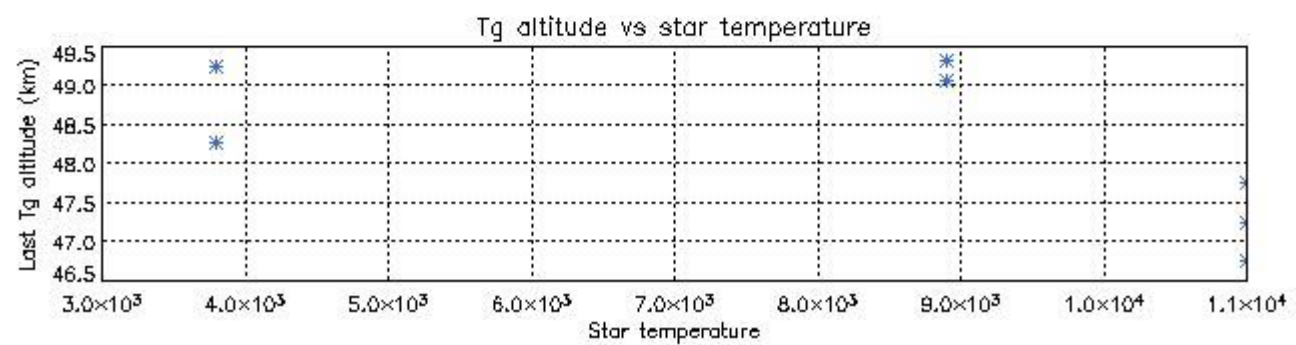
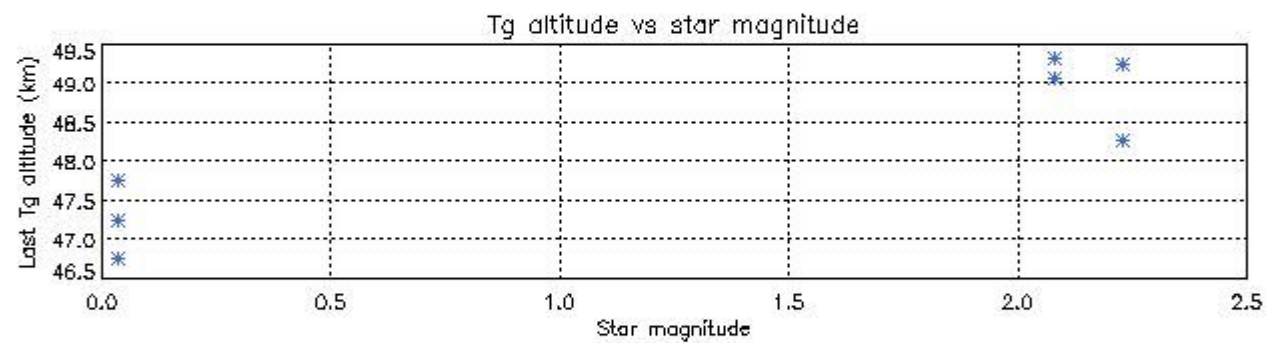
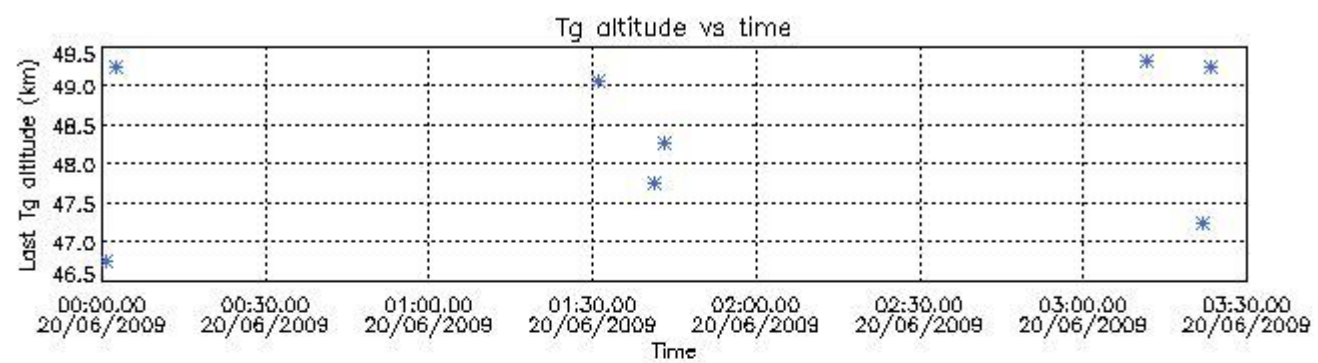
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

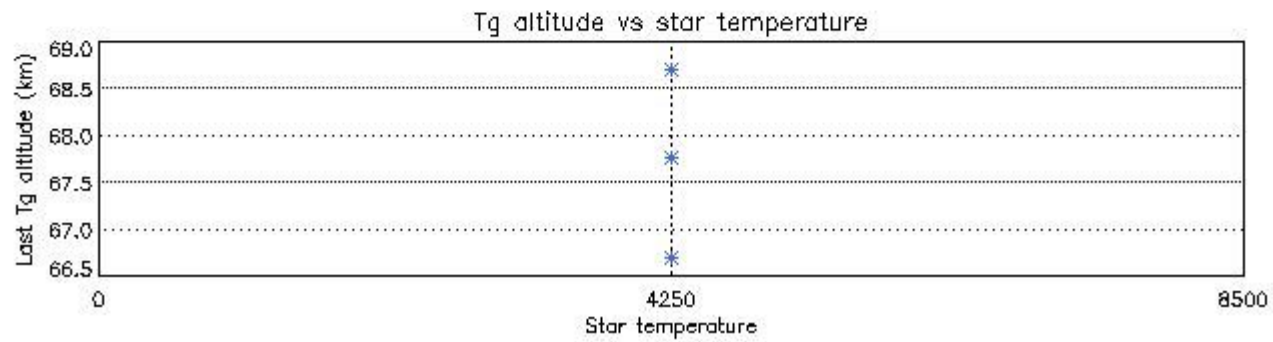
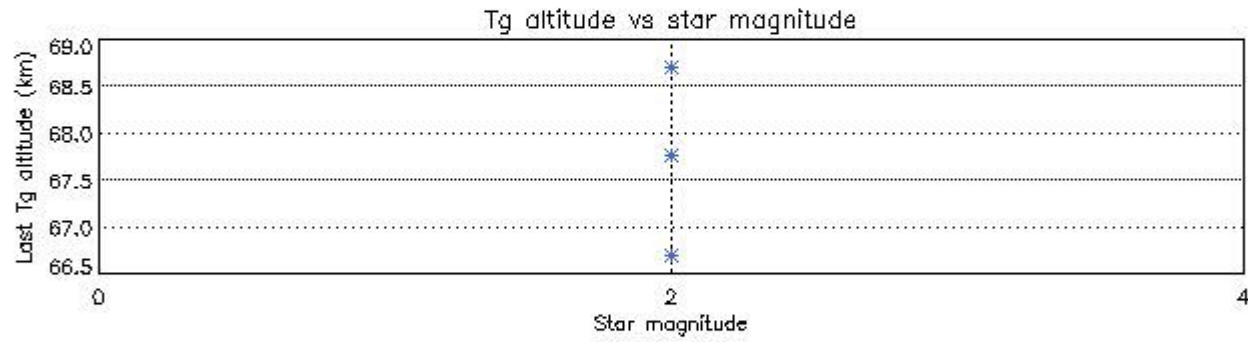
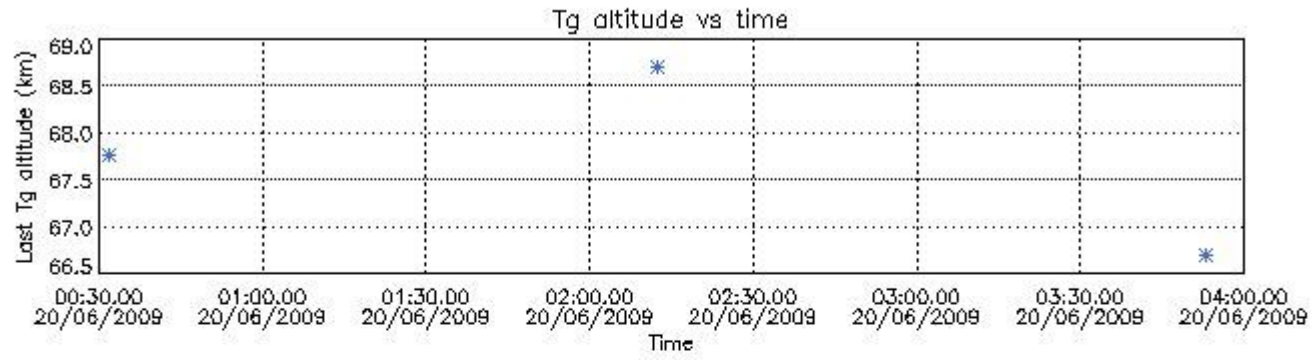


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

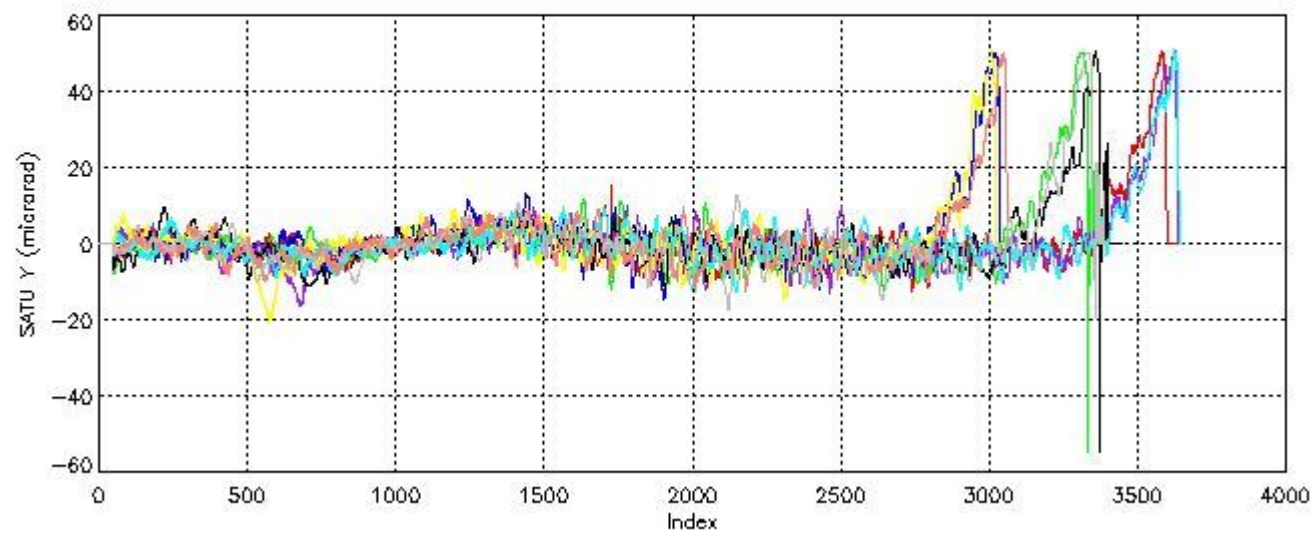
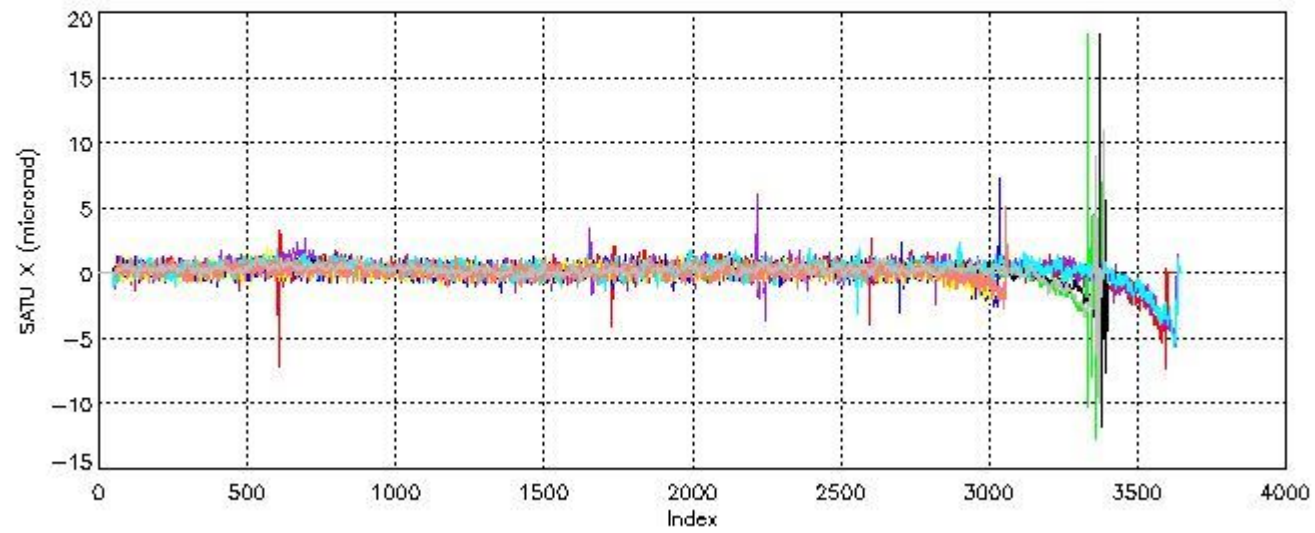


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.33689	-1.3988	0.31846	-1.1088
St. deviation:	0.35245	3.0885	0.44093	2.3343
Maximum:	3.3000	9.5000	2.9000	8.7000
Minimum:	-7.1000	-20.800	-2.3000	-16.300

Number of data:	10300.	10300.	8050.0	8050.0
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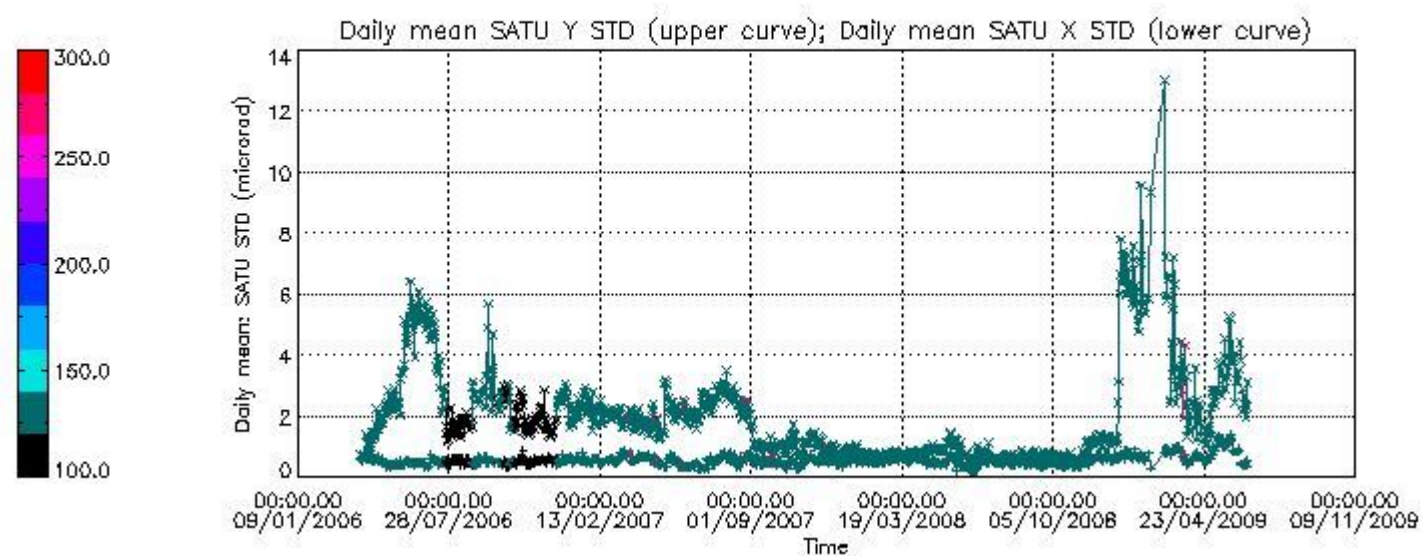
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

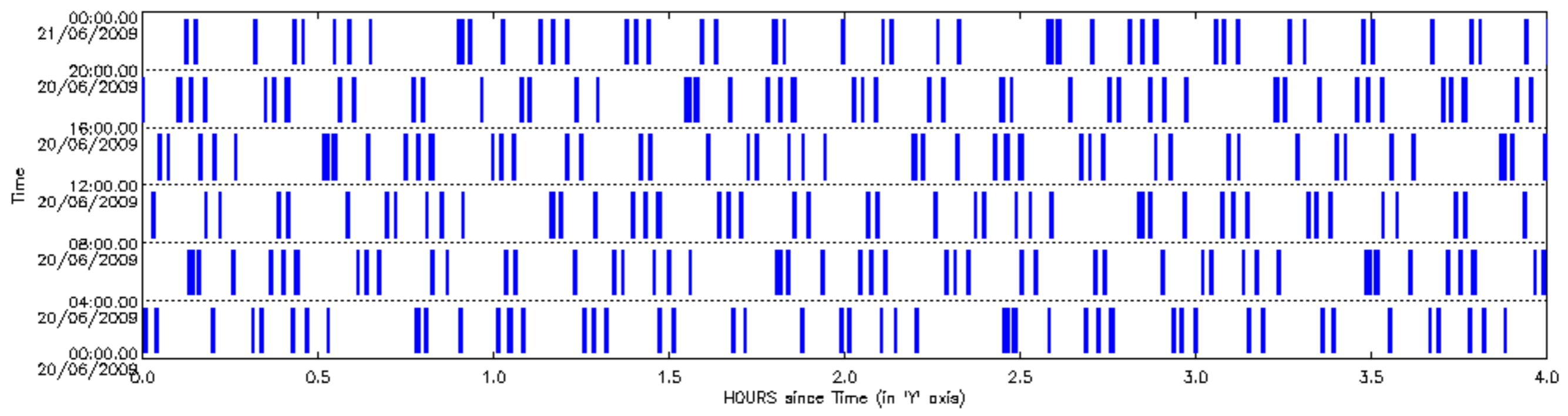
Lower curve: STD of SATU X axis

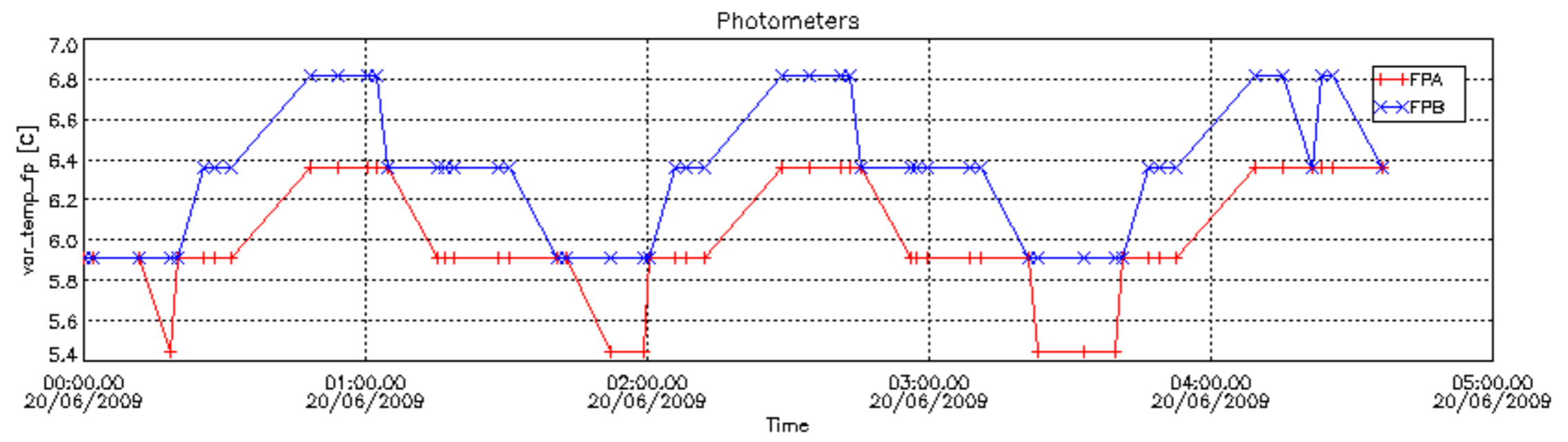
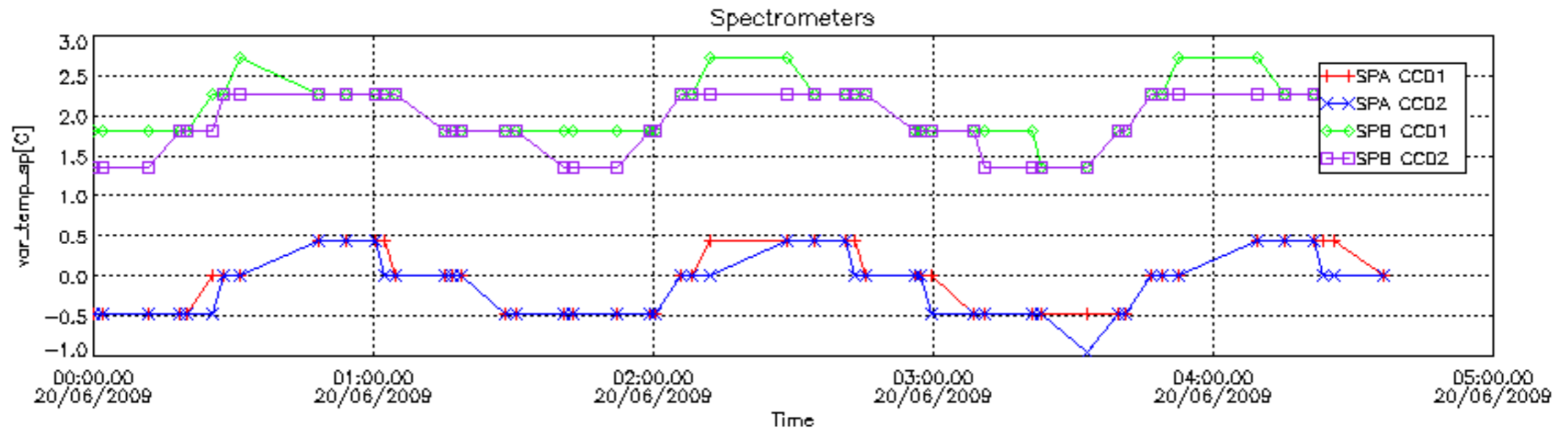


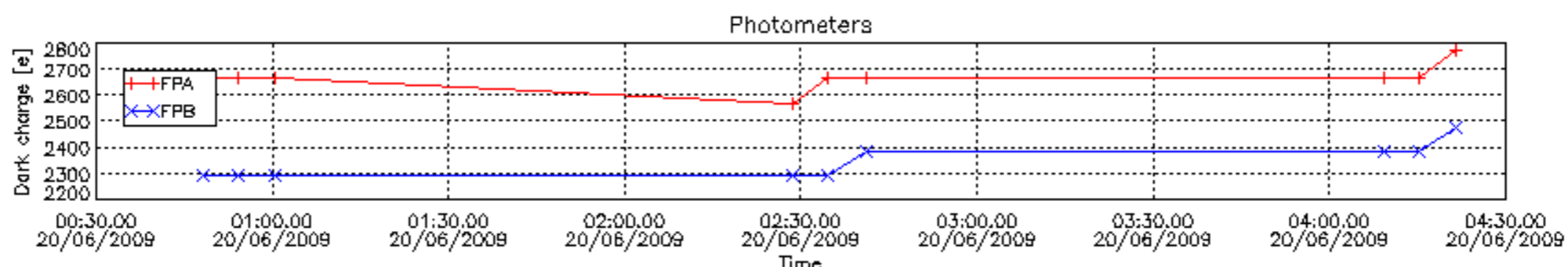
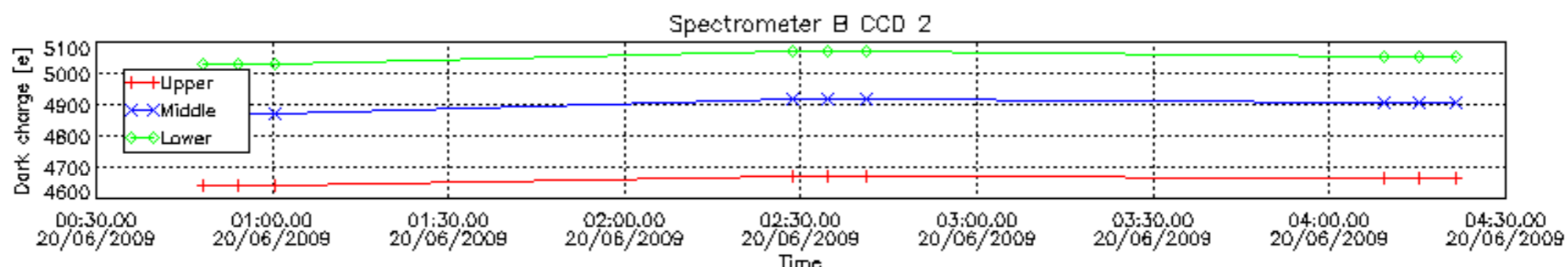
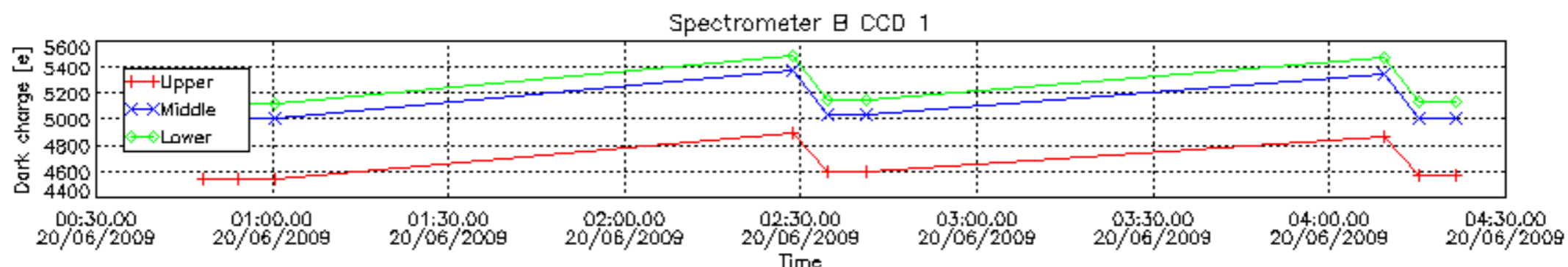
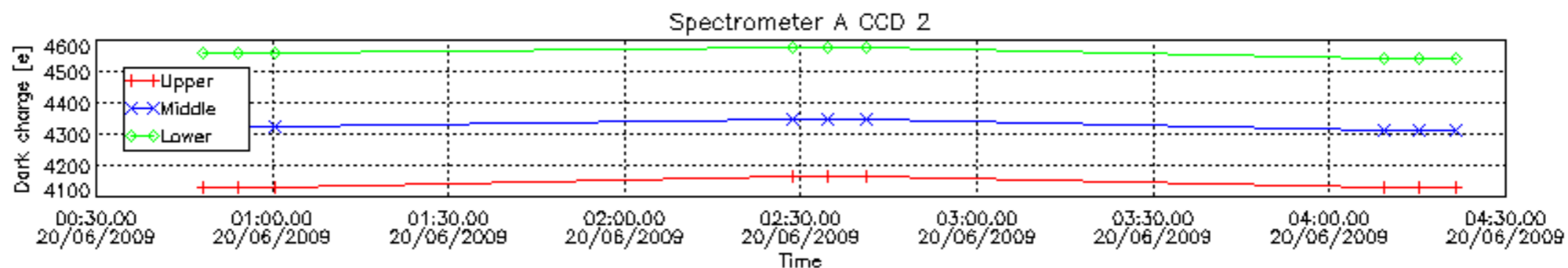
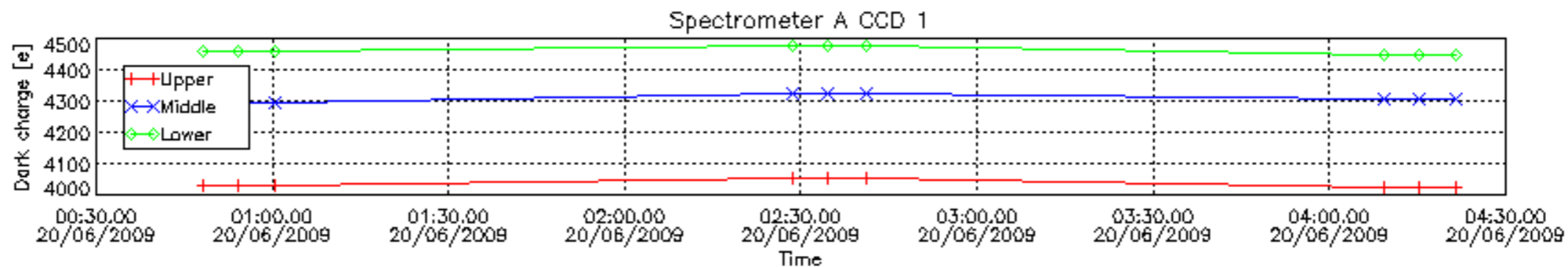
### 8. Auxiliary Data Files used for the production reported in section 2.4

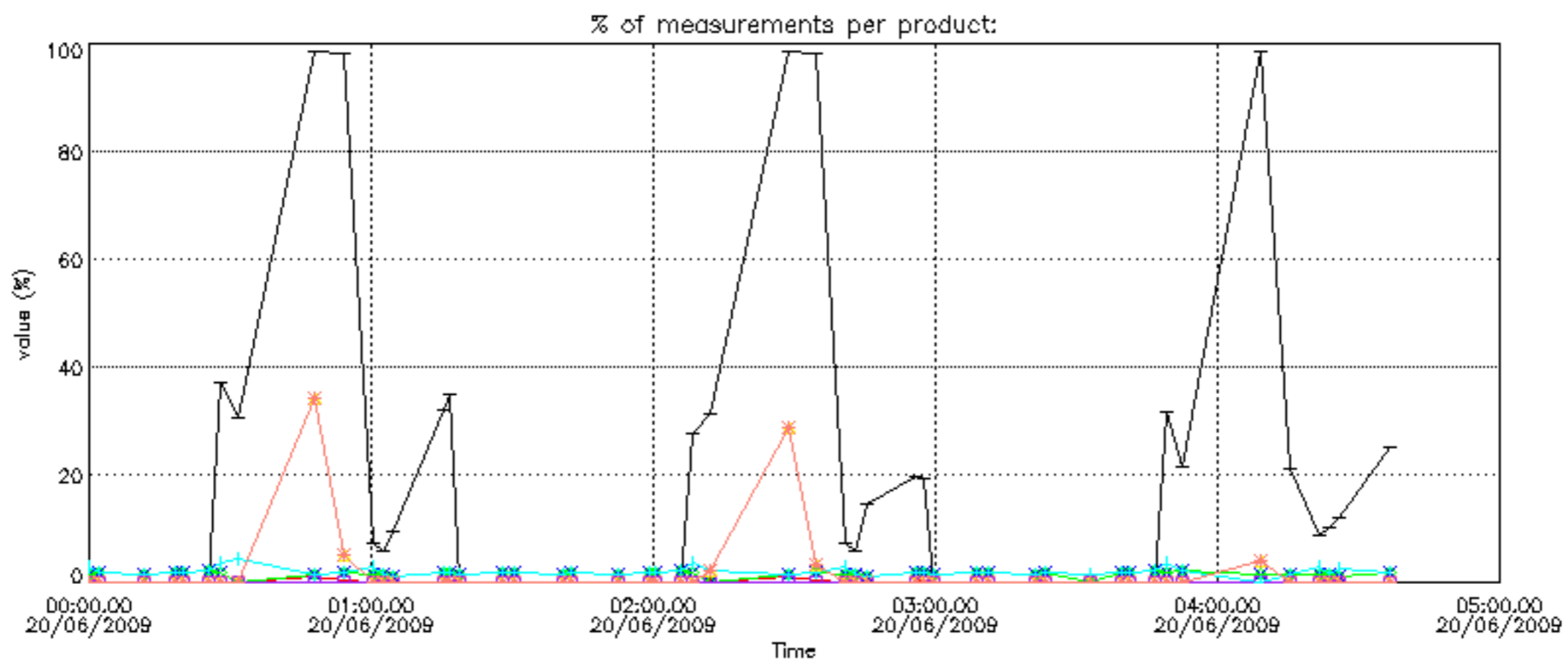
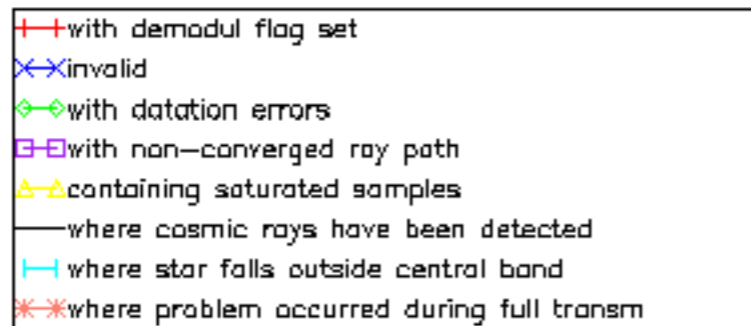
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-JUN-2009 00:00:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090615_121800_20090613_000000_20100101_000000	1	20-JUN-2009 00:00:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-JUN-2009 00:00:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-JUN-2009 00:00:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-JUN-2009 00:00:05
ECMWF_FILE	AUX_ECF_AXNECM20090619_084959_20090619_210000_20090620_090000	1	20-JUN-2009 00:00:05
ECMWF_FILE	AUX_ECF_AXNECM20090619_184113_20090620_030000_20090620_150000	40	20-JUN-2009 03:39:41
OPTIONAL_ECMWF_FILE	MISSING	1	20-JUN-2009 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090619_211649_000057382080_00057_38187_8185.N1	1	20-JUN-2009 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090619_225746_000057382080_00058_38188_8186.N1	9	20-JUN-2009 00:48:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090620_003843_000057382080_00059_38189_8187.N1	27	20-JUN-2009 02:28:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090620_021421_000044632080_00060_38190_8188.N1	40	20-JUN-2009 03:39:41



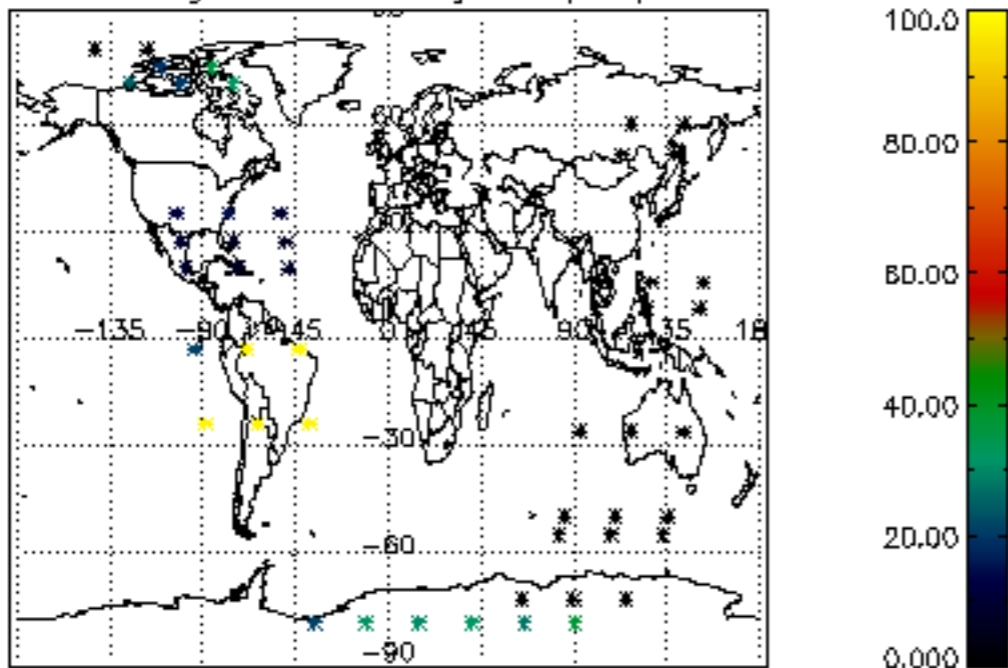




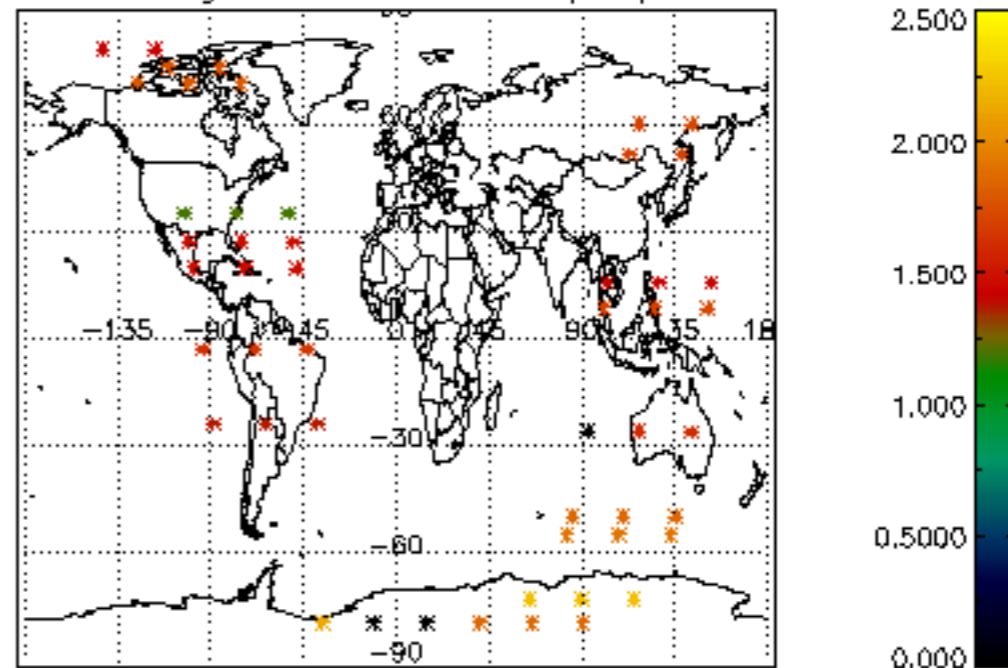




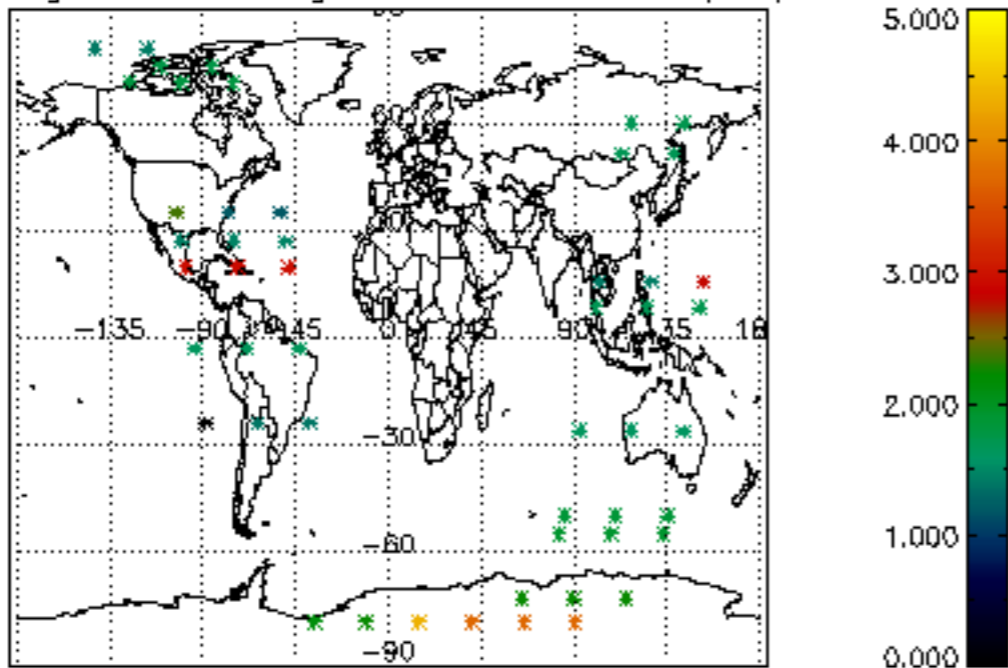
Percentage of cosmic ray hits per profile



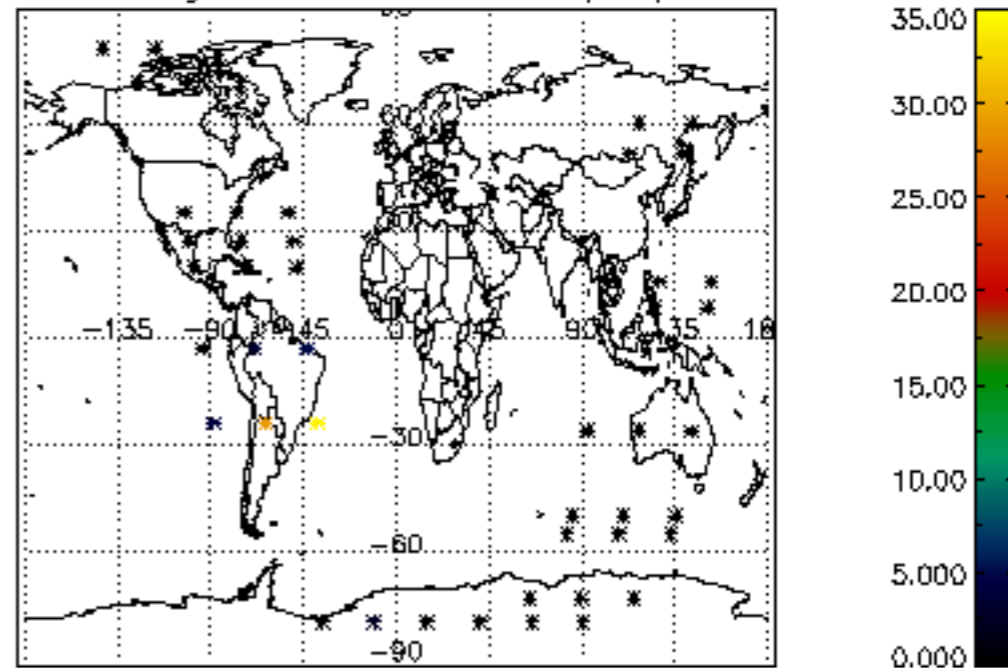
Percentage of datation errors per profile



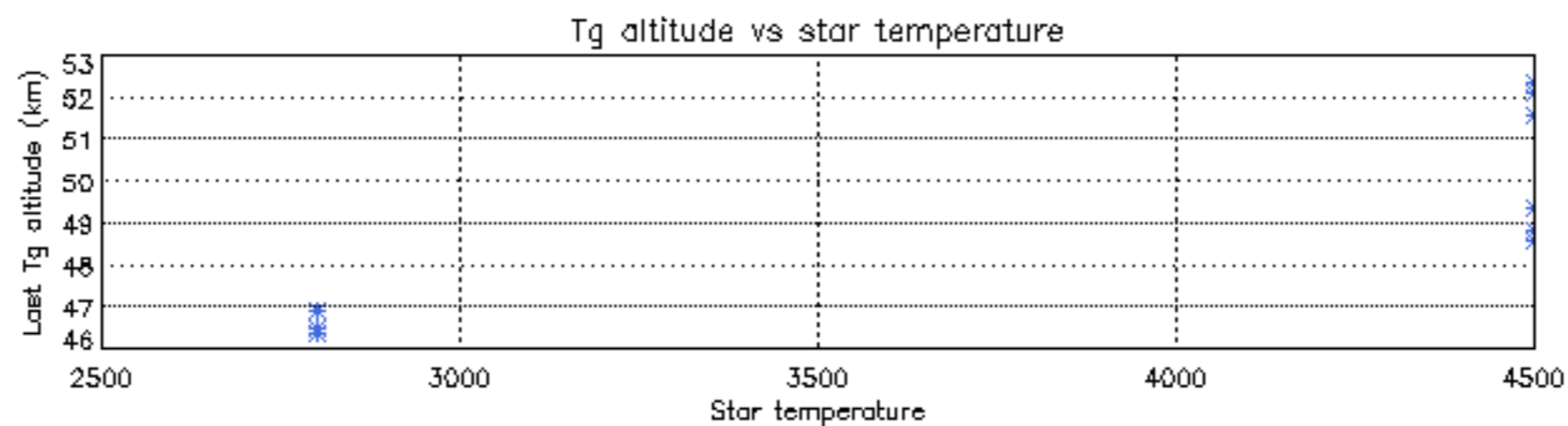
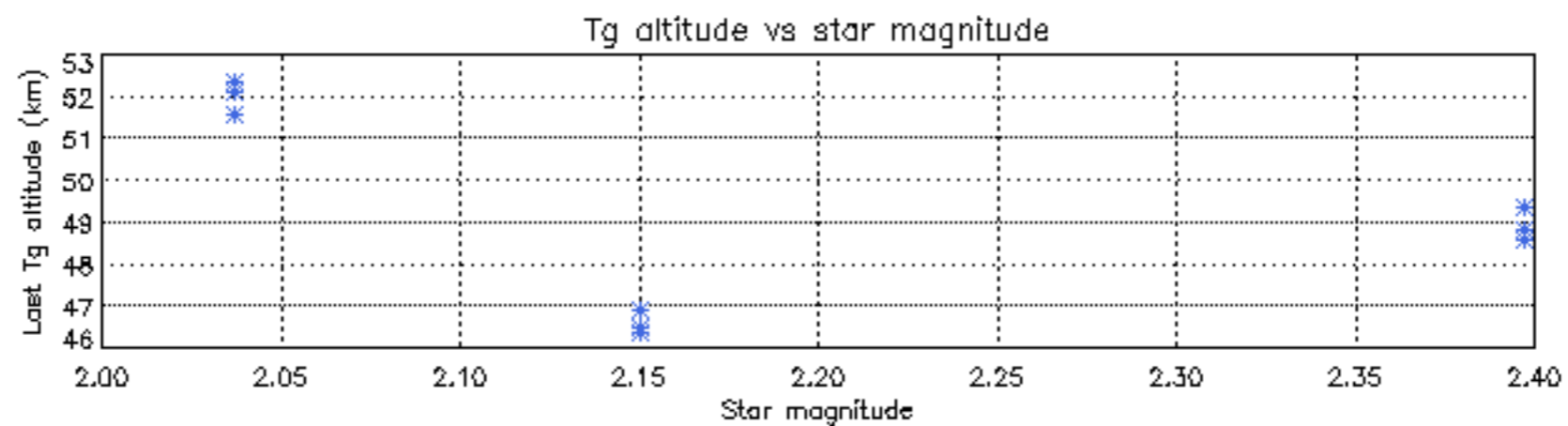
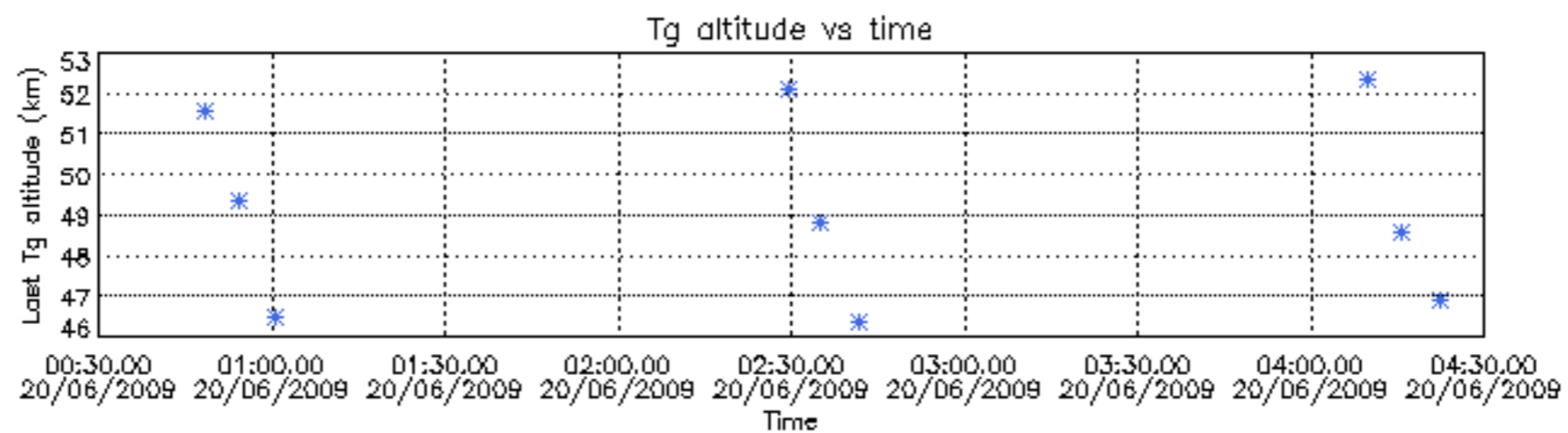
Percentage of star falling outside central band per profile



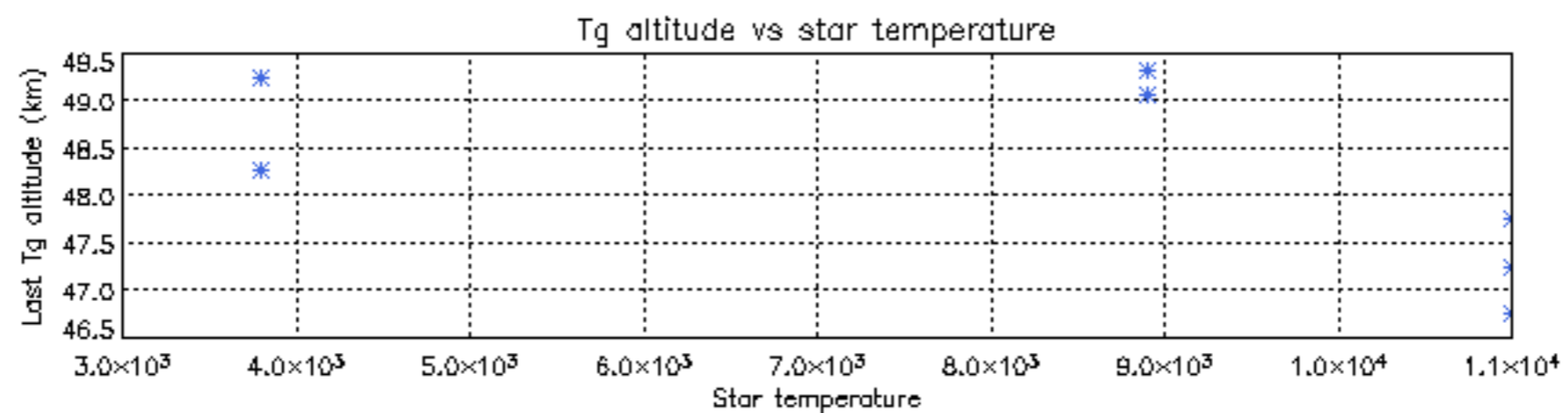
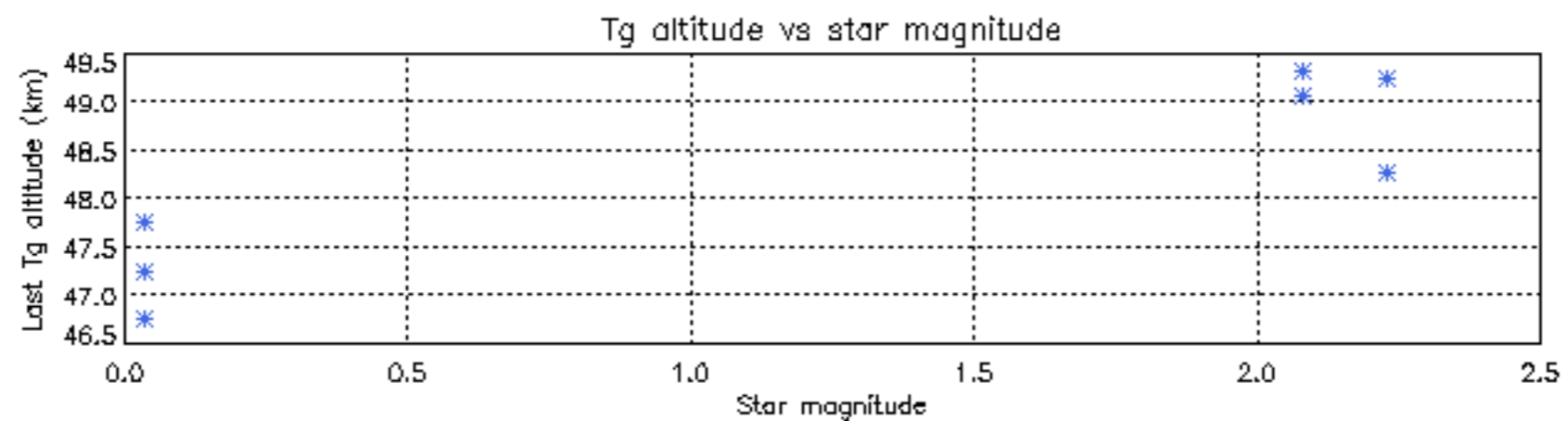
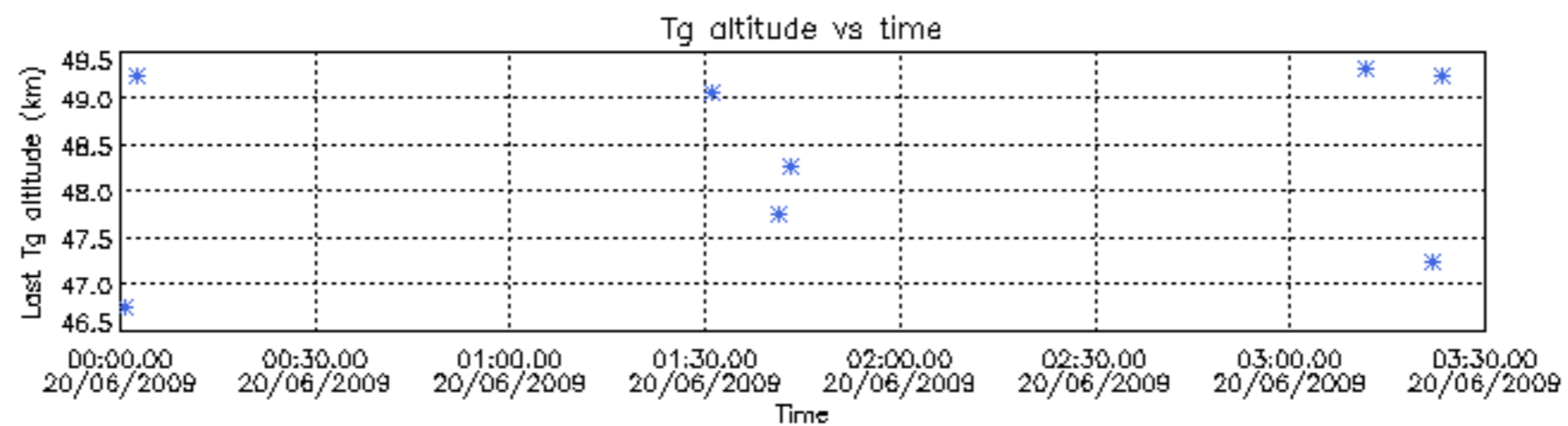
Percentage of saturation errors per profile



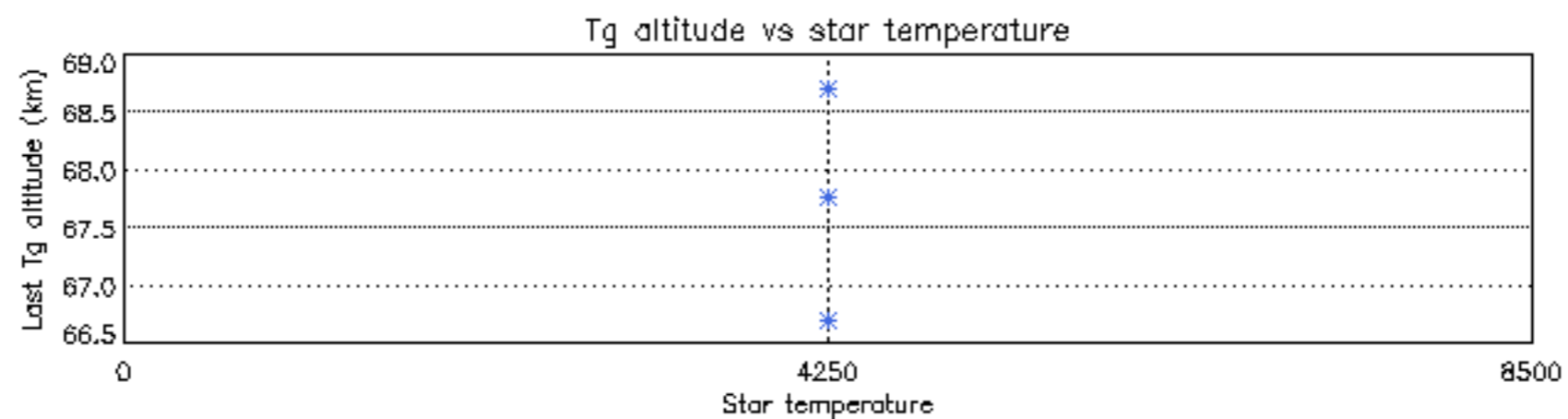
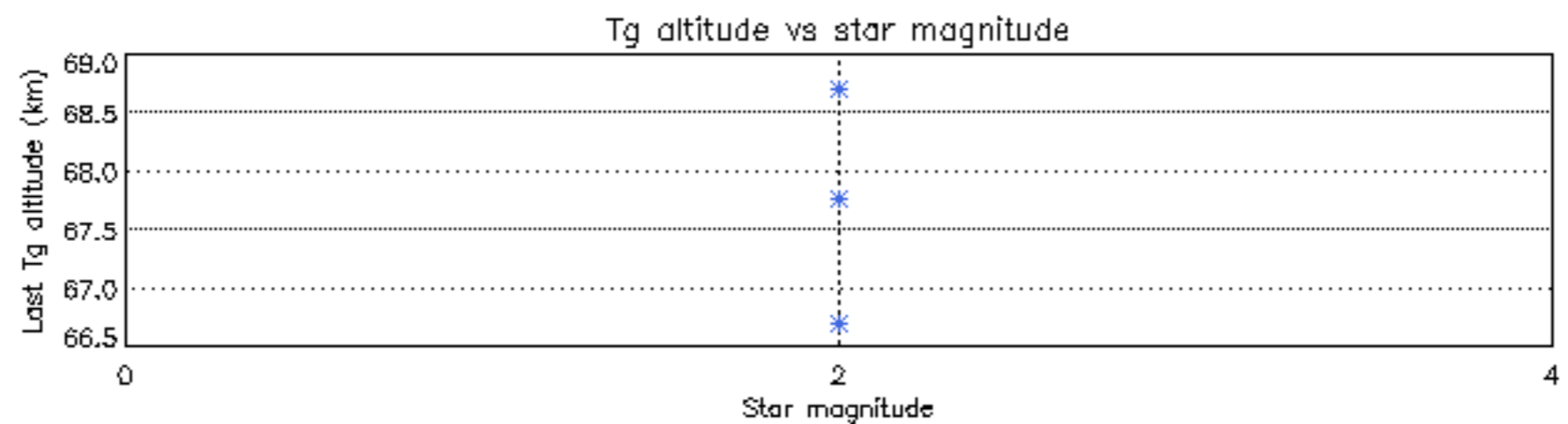
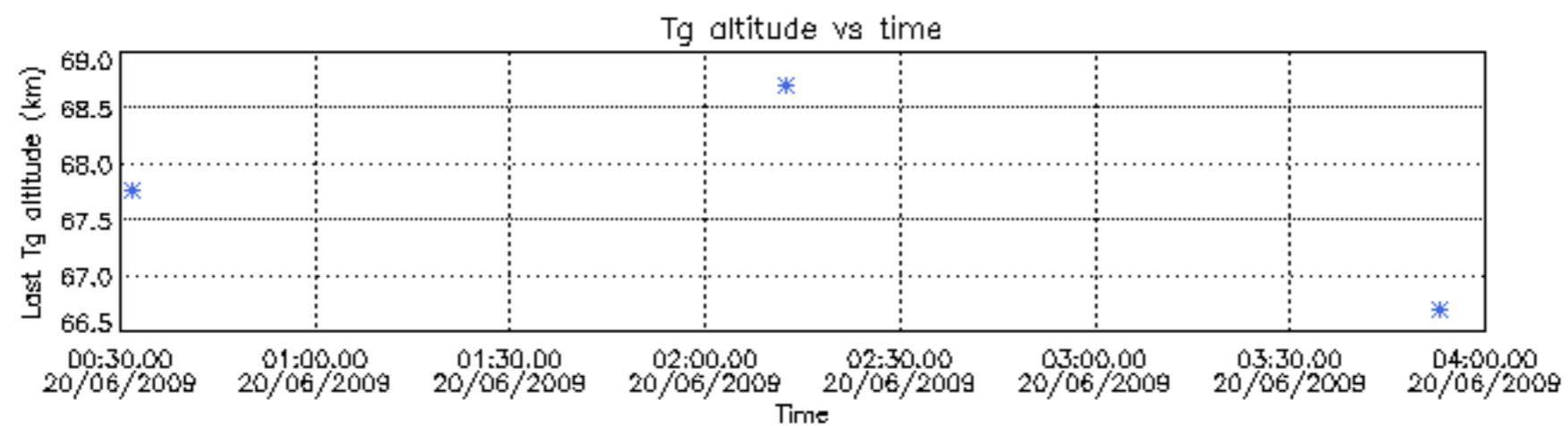
Tangent altitude at which the star is lost

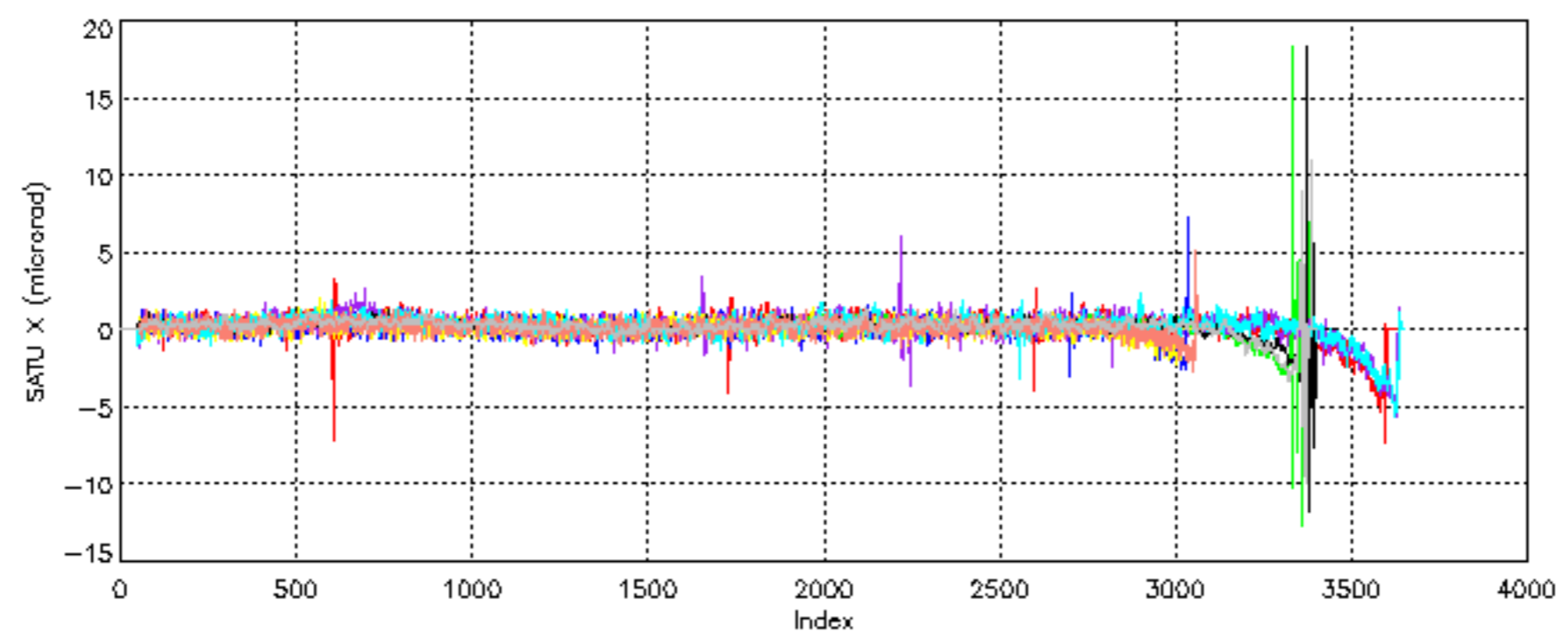


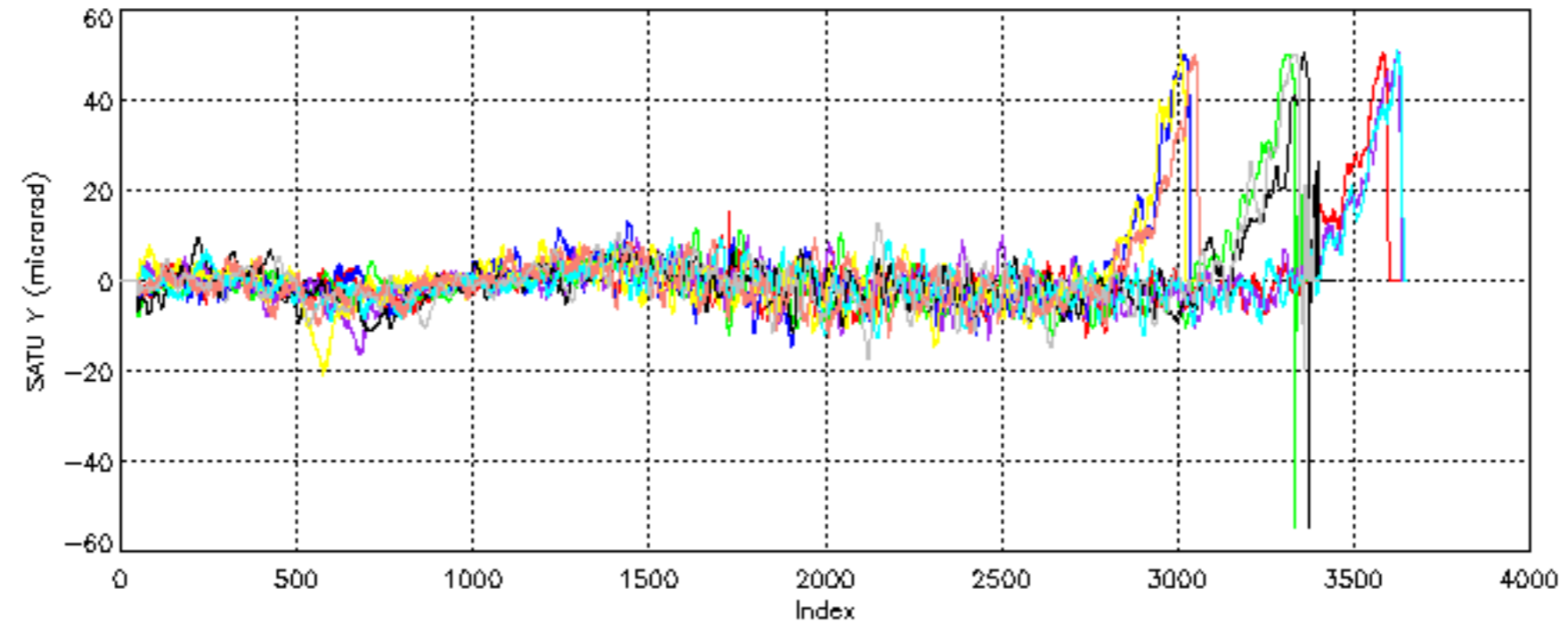
Tangent altitude at which the star is lost

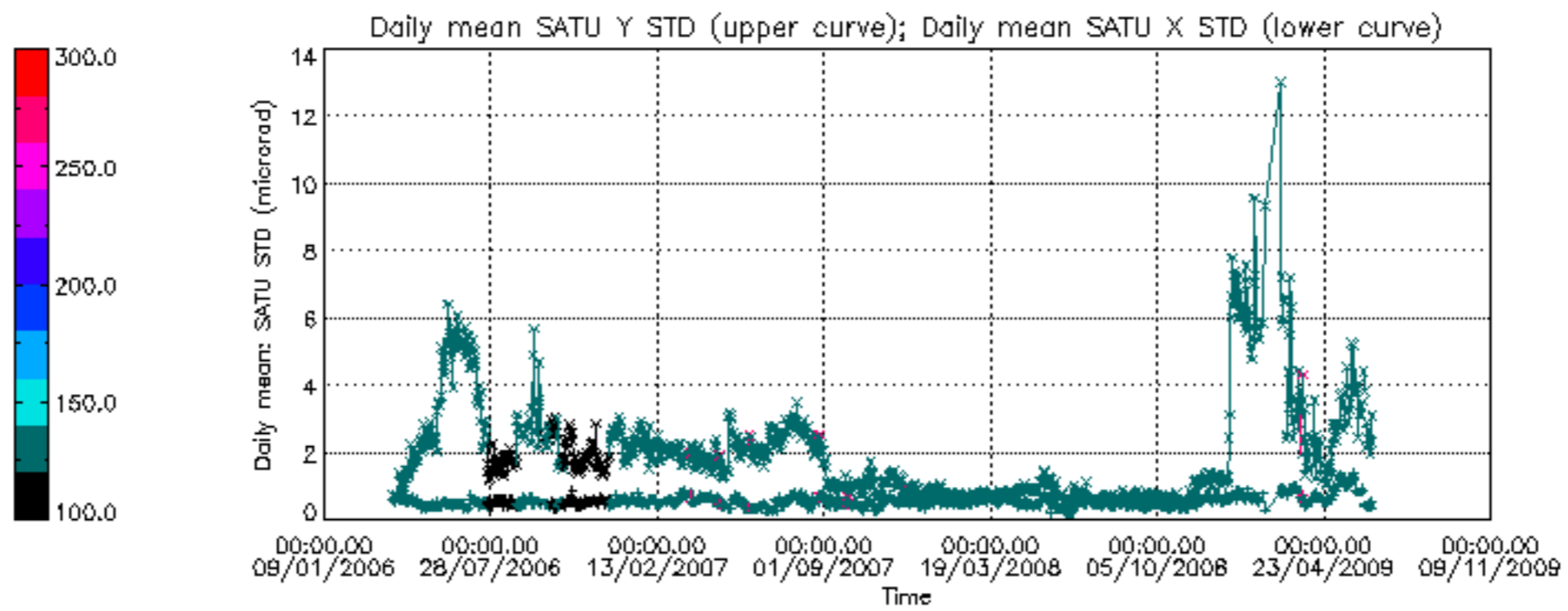


Tangent altitude at which the star is lost









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4; 1207.7; 01-JUN-2009 01:12:04; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37918
5; 1591.4; 01-JUN-2009 01:18:28; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37918
6; 1702.8; 01-JUN-2009 01:20:19; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37918
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9; 2976.6; 01-JUN-2009 01:41:33; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37918
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4; 1106.4; 01-JUN-2009 02:50:59; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37919
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5; -719.5; 05-JUN-2009 06:56:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37978
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3; 1237.8; 05-JUN-2009 09:09:42; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37980
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3; 2500.8; 05-JUN-2009 09:30:45; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37980
4; 2939.1; 05-JUN-2009 09:38:03; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37980
5; 3590.5; 05-JUN-2009 09:48:55; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37980
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7; 4569.5; 05-JUN-2009 10:05:14; Dark ; 28.5; 58; 21Alp And ; 2.07; 11000;occ; 57; 0;37980
8; 4887.8; 05-JUN-2009 10:10:32; Dark ; 31.0; 140; 88Gam Peg ; 2.83; 26000;occ; 62; 0;37980
9; 5317.9; 05-JUN-2009 10:17:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37980
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11; 6286.4; 05-JUN-2009 10:33:51; Dark ; 33.5; 31; Alp Gru ; 1.73; 15200;occ; 67; 0;37980
12; 7176.3; 05-JUN-2009 10:48:41; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;37980
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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3; 2500.5; 05-JUN-2009 11:11:21; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37981

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5; 3589.9; 05-JUN-2009 11:29:30; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37981
6; 3920.1; 05-JUN-2009 11:35:00; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37981
7; 4569.7; 05-JUN-2009 11:45:50; Dark ; 29.0; 58; 21Alp And ; 2.07; 11000;occ; 58; 0;37981
8; 4888.5; 05-JUN-2009 11:51:09; Dark ; 31.0; 140; 88Gam Peg ; 2.83; 26000;occ; 62; 0;37981
9; 5318.6; 05-JUN-2009 11:58:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37981
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11; 6287.1; 05-JUN-2009 12:14:27; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37981
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3; 258.8; 06-JUN-2009 01:39:22; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37990
4; 1144.6; 06-JUN-2009 01:54:08; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;37990
5; 1242.5; 06-JUN-2009 01:55:46; Dark ; 33.0; 116; 19Del Sgr ; 2.70; 4100;occ; 66; 0;37990
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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5; -683.5; 06-JUN-2009 03:04:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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11; 2219.0; 06-JUN-2009 03:52:38; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;37991
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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11; 2055.1; 06-JUN-2009 05:30:31; Bright; 26.0; 126; 60Bet Oph ; 2.77; 4250;occ; 52; 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
14; 2932.0; 06-JUN-2009 05:45:07; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 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
7; 2492.9; 06-JUN-2009 20:43:12; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38001
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
10; 3915.5; 06-JUN-2009 21:06:54; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;38001
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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 13; 4401.8; 06-JUN-2009 22:55:37; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38002  
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 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  
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 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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 8; 2049.3; 07-JUN-2009 01:37:36; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38004  
 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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 2; -1634.0; 07-JUN-2009 02:16:48; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38004  
 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

5; -668.1; 07-JUN-2009 02:32:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38004  
6; -3.7; 07-JUN-2009 02:43:59; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;38004  
7; 273.5; 07-JUN-2009 02:48:36; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38005  
8; 1152.1; 07-JUN-2009 03:03:15; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38005  
9; 1270.9; 07-JUN-2009 03:05:13; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38005  
10; 1334.3; 07-JUN-2009 03:06:17; Dark ; 35.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 71; 0;38005  
11; 1600.2; 07-JUN-2009 03:10:43; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38005  
12; 2049.1; 07-JUN-2009 03:18:12; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38005  
13; 2211.2; 07-JUN-2009 03:20:54; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38005  
14; 2491.8; 07-JUN-2009 03:25:34; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38005  
15; 2925.3; 07-JUN-2009 03:32:48; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38005  
16; 3574.8; 07-JUN-2009 03:43:37; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38005

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2; -1633.7; 07-JUN-2009 03:57:25; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38005  
3; -1460.8; 07-JUN-2009 04:00:18; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38005  
4; -1132.0; 07-JUN-2009 04:05:47; Dark ; 32.0; 140; 88Gam Peg ; 2.83; 26000;occ; 64; 0;38005  
5; -666.9; 07-JUN-2009 04:13:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38005  
6; -2.1; 07-JUN-2009 04:24:36; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;38005  
7; 274.8; 07-JUN-2009 04:29:13; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38006  
8; 1152.8; 07-JUN-2009 04:43:51; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38006  
9; 1271.4; 07-JUN-2009 04:45:50; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38006  
10; 1600.1; 07-JUN-2009 04:51:19; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38006  
11; 2048.6; 07-JUN-2009 04:58:47; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38006  
12; 2210.8; 07-JUN-2009 05:01:29; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38006  
13; 2490.9; 07-JUN-2009 05:06:09; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;38006  
14; 2924.8; 07-JUN-2009 05:13:23; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38006  
15; 3574.1; 07-JUN-2009 05:24:13; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38006

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2; -1633.5; 07-JUN-2009 05:38:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38006  
3; -1460.5; 07-JUN-2009 05:40:54; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38006  
4; -1131.5; 07-JUN-2009 05:46:23; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38006  
5; -665.8; 07-JUN-2009 05:54:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38006  
6; -1.0; 07-JUN-2009 06:05:13; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38006  
7; 275.5; 07-JUN-2009 06:09:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38007  
8; 1152.9; 07-JUN-2009 06:24:27; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38007  
9; 1271.7; 07-JUN-2009 06:26:26; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38007  
10; 1600.4; 07-JUN-2009 06:31:55; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38007  
11; 2048.1; 07-JUN-2009 06:39:23; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38007  
12; 2210.2; 07-JUN-2009 06:42:05; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38007  
13; 2490.7; 07-JUN-2009 06:46:45; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38007  
14; 2924.0; 07-JUN-2009 06:53:59; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38007  
15; 3573.5; 07-JUN-2009 07:04:48; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38007

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2; 1275.8; 07-JUN-2009 19:51:18; Dark ; 38.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 76; 0;38015  
3; 1600.7; 07-JUN-2009 19:56:43; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38015  
4; 2044.2; 07-JUN-2009 20:04:06; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;38015  
5; 2205.7; 07-JUN-2009 20:06:48; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;38015  
6; 2487.9; 07-JUN-2009 20:11:30; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38015  
7; 2919.8; 07-JUN-2009 20:18:42; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38015  
8; 3568.2; 07-JUN-2009 20:29:30; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38015  
9; 3911.9; 07-JUN-2009 20:35:14; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;38015  
10; 4402.9; 07-JUN-2009 20:43:25; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38015  
11; 4577.5; 07-JUN-2009 20:46:20; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38015  
12; 4910.5; 07-JUN-2009 20:51:52; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38015

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2; 12.5; 07-JUN-2009 21:10:50; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38016  
3; 284.5; 07-JUN-2009 21:15:22; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38016  
4; 1157.3; 07-JUN-2009 21:29:55; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38016  
5; 1276.2; 07-JUN-2009 21:31:54; Dark ; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;38016  
6; 1600.7; 07-JUN-2009 21:37:19; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38016  
7; 2044.3; 07-JUN-2009 21:44:42; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;38016  
8; 2205.5; 07-JUN-2009 21:47:23; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;38016  
9; 2487.4; 07-JUN-2009 21:52:05; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38016  
10; 2919.2; 07-JUN-2009 21:59:17; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38016



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12; 3911.5; 07-JUN-2009 22:15:49; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38016
13; 4402.9; 07-JUN-2009 22:24:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38016
14; 4577.5; 07-JUN-2009 22:26:55; Dark ; 30.5; 58; 21Alp And ; 2.07; 11000;occ; 61; 0;38016
15; 4911.1; 07-JUN-2009 22:32:29; Dark ; 33.0; 140; 88Gam Peg ; 2.83; 26000;occ; 66; 0;38016
16; 5381.5; 07-JUN-2009 22:40:19; Dark ; 28.0; 0; ; 0.00; 0;occ; 56; 0;38016
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 2; 13.6; 07-JUN-2009 22:51:27; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38017
 3; 285.0; 07-JUN-2009 22:55:59; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38017
 4; 1157.5; 07-JUN-2009 23:10:31; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38017
 5; 1276.6; 07-JUN-2009 23:12:30; Dark ; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;38017
 6; 1605.0; 07-JUN-2009 23:17:59; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;38017
 7; 2043.6; 07-JUN-2009 23:25:17; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;38017
 8; 2204.9; 07-JUN-2009 23:27:59; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;38017
 9; 2487.6; 07-JUN-2009 23:32:41; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38017
10; 2918.7; 07-JUN-2009 23:39:52; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38017
11; 3566.9; 07-JUN-2009 23:50:41; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38017
12; 3911.3; 07-JUN-2009 23:56:25; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38017
13; 4402.7; 08-JUN-2009 00:04:37; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38017
14; 4577.6; 08-JUN-2009 00:07:31; Dark ; 30.5; 58; 21Alp And ; 2.07; 11000;occ; 61; 0;38017
15; 4911.8; 08-JUN-2009 00:13:06; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38017
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 2;-1633.5; 07-JUN-2009 07:18:37; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38007
 3;-1460.4; 07-JUN-2009 07:21:30; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38007
 4;-1130.6; 07-JUN-2009 07:27:00; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38007
 5; -664.6; 07-JUN-2009 07:34:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38007
 6; 0.5; 07-JUN-2009 07:45:51; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38008
 7; 276.5; 07-JUN-2009 07:50:27; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38008
 8; 1153.6; 07-JUN-2009 08:05:04; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38008
 9; 1272.5; 07-JUN-2009 08:07:03; Dark ; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;38008
10; 1600.2; 07-JUN-2009 08:12:31; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38008
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 2; 2209.9; 07-JUN-2009 08:22:40; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;38008
 3; 2490.6; 07-JUN-2009 08:27:21; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38008
 4; 2923.8; 07-JUN-2009 08:34:34; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38008
 5; 3572.9; 07-JUN-2009 08:45:23; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38008
 6; 3913.6; 07-JUN-2009 08:51:04; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38008
 7; 4402.3; 07-JUN-2009 08:59:13; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38008
 8; 4575.8; 07-JUN-2009 09:02:06; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38008
 9; 4905.9; 07-JUN-2009 09:07:36; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38008
10; 5372.4; 07-JUN-2009 09:15:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38008
11; 6038.0; 07-JUN-2009 09:26:28; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38008
12; 6313.4; 07-JUN-2009 09:31:04; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38008
13; 7189.5; 07-JUN-2009 09:45:40; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;38008
14; 7308.6; 07-JUN-2009 09:47:39; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38008
15; 7636.6; 07-JUN-2009 09:53:07; Bright; 28.0; 86; 35Eta Oph ; 2.43; 10200;occ; 56; 0;38008
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 2; 2209.1; 07-JUN-2009 10:03:15; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;38009
 3; 2490.1; 07-JUN-2009 10:07:56; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38009
 4; 2922.8; 07-JUN-2009 10:15:09; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;38009
 5; 3572.2; 07-JUN-2009 10:25:59; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38009
 6; 3913.4; 07-JUN-2009 10:31:40; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38009
 7; 4402.6; 07-JUN-2009 10:39:49; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38009
 8; 4576.2; 07-JUN-2009 10:42:43; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38009
 9; 4906.5; 07-JUN-2009 10:48:13; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38009
10; 5373.5; 07-JUN-2009 10:56:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38009
11; 6039.3; 07-JUN-2009 11:07:06; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;38009
12; 6314.3; 07-JUN-2009 11:11:41; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38009
13; 7190.4; 07-JUN-2009 11:26:17; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38009
14; 7309.4; 07-JUN-2009 11:28:16; Dark ; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;38009
15; 7636.4; 07-JUN-2009 11:33:43; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38009
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 2; 2046.8; 07-JUN-2009 11:41:09; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;38010

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3; 2208.5; 07-JUN-2009 11:43:51; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;38010
4; 2490.1; 07-JUN-2009 11:48:32; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38010
5; 2922.8; 07-JUN-2009 11:55:45; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38010
6; 3913.2; 07-JUN-2009 12:12:15; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38010
7; 4402.5; 07-JUN-2009 12:20:25; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38010
8; 4576.3; 07-JUN-2009 12:23:19; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38010
9; 4907.4; 07-JUN-2009 12:28:50; Dark ; 32.5; 140; 88Gam Peg ; 2.83; 26000;occ; 65; 0;38010
10; 5374.6; 07-JUN-2009 12:36:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38010
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12; 6315.3; 07-JUN-2009 12:52:18; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38010
13; 7191.0; 07-JUN-2009 13:06:53; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38010
14; 7309.9; 07-JUN-2009 13:08:52; Dark ; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;38010
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3; 2207.8; 07-JUN-2009 13:24:26; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38011
4; 2489.5; 07-JUN-2009 13:29:08; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38011
5; 2922.1; 07-JUN-2009 13:36:20; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38011
6; 3571.1; 07-JUN-2009 13:47:09; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38011
7; 3912.9; 07-JUN-2009 13:52:51; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38011
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9; 4576.4; 07-JUN-2009 14:03:54; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38011
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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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5; 3898.7; 11-JUN-2009 08:24:57; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 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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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
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13; 3895.7; 11-JUN-2009 23:30:18; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38074
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7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
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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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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; -619.2; 13-JUN-2009 07:47:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38093
4; -508.3; 13-JUN-2009 07:48:52; Dark ; 32.0; 52; 16Bet Cet ; 2.04; 4500;occ; 64; 0;38093
5; 132.7; 13-JUN-2009 07:59:33; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38094
6; 239.2; 13-JUN-2009 08:01:20; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38094
7; 360.9; 13-JUN-2009 08:03:21; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38094
8; 463.5; 13-JUN-2009 08:05:04; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38094
9; 1191.4; 13-JUN-2009 08:17:12; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38094
10; 1310.5; 13-JUN-2009 08:19:11; Dark ; 35.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 70; 0;38094
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2; 2170.6; 13-JUN-2009 08:33:31; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;38094
3; 2882.3; 13-JUN-2009 08:45:23; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38094
4; 3516.6; 13-JUN-2009 08:55:57; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38094
5; 3889.7; 13-JUN-2009 09:02:10; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38094
6; 4409.0; 13-JUN-2009 09:10:50; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38094
7; 5417.7; 13-JUN-2009 09:27:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38094
8; 5528.9; 13-JUN-2009 09:29:29; Dark ; 32.0; 52; 16Bet Cet ; 2.04; 4500;occ; 64; 0;38094
9; 6170.5; 13-JUN-2009 09:40:11; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38094
10; 6275.3; 13-JUN-2009 09:41:56; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38094
11; 6397.8; 13-JUN-2009 09:43:58; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38094
12; 6500.7; 13-JUN-2009 09:45:41; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38094
13; 7227.7; 13-JUN-2009 09:57:48; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38094
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3; 2881.9; 13-JUN-2009 10:25:58; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38095
4; 3515.8; 13-JUN-2009 10:36:32; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38095
5; 3889.4; 13-JUN-2009 10:42:46; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38095
6; 4409.0; 13-JUN-2009 10:51:25; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38095
7; 5418.7; 13-JUN-2009 11:08:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38095
8; 5529.6; 13-JUN-2009 11:10:06; Dark ; 32.0; 52; 16Bet Cet ; 2.04; 4500;occ; 64; 0;38095
9; 6172.1; 13-JUN-2009 11:20:48; Dark ; 41.0; 18; 24Alp PsA ; 1.17; 9700;occ; 82; 0;38095
10; 6276.4; 13-JUN-2009 11:22:33; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38095
11; 6398.8; 13-JUN-2009 11:24:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38095
12; 6502.0; 13-JUN-2009 11:26:18; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38095
13; 7228.5; 13-JUN-2009 11:38:25; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38095
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2; 2169.8; 13-JUN-2009 11:54:42; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;38096
3; 2881.5; 13-JUN-2009 12:06:34; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38096
4; 3515.0; 13-JUN-2009 12:17:07; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38096
5; 3888.8; 13-JUN-2009 12:23:21; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38096
6; 4409.1; 13-JUN-2009 12:32:01; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38096
7; 5419.7; 13-JUN-2009 12:48:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38096
8; 5530.6; 13-JUN-2009 12:50:43; Dark ; 32.0; 52; 16Bet Cet ; 2.04; 4500;occ; 64; 0;38096

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11; 6400.2; 13-JUN-2009 13:05:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38096
12; 6503.4; 13-JUN-2009 13:06:56; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38096
13; 7228.4; 13-JUN-2009 13:19:01; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38096
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3; 2881.0; 13-JUN-2009 13:47:09; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38097
4; 3514.5; 13-JUN-2009 13:57:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38097
5; 3888.7; 13-JUN-2009 14:03:57; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38097
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7; 5420.8; 13-JUN-2009 14:29:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38097
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9; 6175.5; 13-JUN-2009 14:42:04; Dark ; 38.0; 18; 24Alp PsA ; 1.17; 9700;occ; 76; 0;38097
10; 6278.6; 13-JUN-2009 14:43:47; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38097
11; 6401.1; 13-JUN-2009 14:45:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38097
12; 6505.0; 13-JUN-2009 14:47:33; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38097
13; 7228.9; 13-JUN-2009 14:59:37; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38097
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3; 2880.9; 13-JUN-2009 15:27:45; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38098
4; 3513.9; 13-JUN-2009 15:38:18; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38098
5; 3888.6; 13-JUN-2009 15:44:33; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38098
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9; 6177.1; 13-JUN-2009 16:22:41; Dark ; 38.0; 18; 24Alp PsA ; 1.17; 9700;occ; 76; 0;38098
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11; 6402.1; 13-JUN-2009 16:26:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38098
12; 6506.2; 13-JUN-2009 16:28:10; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38098
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4; 2014.9; 13-JUN-2009 18:34:31; Bright; 32.5; 126; 60Bet Oph ; 2.77; 4250;occ; 65; 0;38100
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7; 480.8; 14-JUN-2009 05:53:08; Dark ; 43.0; 172; Gam Gru ; 3.00; 13100;occ; 86; 0;38107
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 3; -1624.0; 16-JUN-2009 07:36:01; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38136  
 4; -1034.2; 16-JUN-2009 07:45:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38136  
 5; -465.2; 16-JUN-2009 07:55:20; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38136  
 6; 281.0; 16-JUN-2009 08:07:46; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38137  
 7; 403.8; 16-JUN-2009 08:09:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137  
 8; 521.3; 16-JUN-2009 08:11:47; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38137  
 9; 1239.8; 16-JUN-2009 08:23:45; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137  
 10; 1327.2; 16-JUN-2009 08:25:13; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137  
 11; 1433.8; 16-JUN-2009 08:26:59; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38137

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1; 2005.8; 16-JUN-2009 08:36:31; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38137  
 2; 2156.2; 16-JUN-2009 08:39:02; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38137  
 3; 2794.7; 16-JUN-2009 08:49:40; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38137  
 4; 2893.8; 16-JUN-2009 08:51:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38137  
 5; 3487.6; 16-JUN-2009 09:01:13; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38137  
 6; 3875.5; 16-JUN-2009 09:07:41; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38137  
 7; 3959.3; 16-JUN-2009 09:09:05; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38137  
 8; 4412.0; 16-JUN-2009 09:16:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38137  
 9; 5002.2; 16-JUN-2009 09:26:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38137  
 10; 5572.2; 16-JUN-2009 09:35:58; Dark ; 33.5; 52; 16Bet Cet ; 2.04; 4500;occ; 67; 0;38137  
 11; 6317.5; 16-JUN-2009 09:48:23; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38137  
 12; 6440.8; 16-JUN-2009 09:50:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137  
 13; 6558.5; 16-JUN-2009 09:52:24; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38137  
 14; 7275.9; 16-JUN-2009 10:04:21; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137  
 15; 7363.4; 16-JUN-2009 10:05:49; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137  
 16; 7469.8; 16-JUN-2009 10:07:35; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38137

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 2; 2155.9; 16-JUN-2009 10:19:37; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38138  
 3; 2794.0; 16-JUN-2009 10:30:15; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38138  
 4; 2893.3; 16-JUN-2009 10:31:55; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38138  
 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138  
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138  
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138  
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138  
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138  
 10; 5572.7; 16-JUN-2009 11:16:34; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38138  
 11; 6318.5; 16-JUN-2009 11:29:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38138  
 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138  
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138  
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138  
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138  
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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 2; 2155.6; 16-JUN-2009 12:00:13; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38139  
 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139  
 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139  
 5; 3486.1; 16-JUN-2009 12:22:23; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38139  
 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139  
 7; 3958.5; 16-JUN-2009 12:30:16; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38139  
 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139  
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139  
 10; 5574.0; 16-JUN-2009 12:57:11; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38139  
 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139  
 12; 6442.7; 16-JUN-2009 13:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38139  
 13; 6561.6; 16-JUN-2009 13:13:39; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38139  
 14; 7276.7; 16-JUN-2009 13:25:34; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38139  
 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139  
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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 2; 2005.2; 16-JUN-2009 13:38:18; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38140  
 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140  
 4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140  
 5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140

6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140  
7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140  
8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140  
9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140  
10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140  
11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140  
12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140  
13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140  
14; 6563.0; 16-JUN-2009 14:54:16; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38140  
15; 7277.2; 16-JUN-2009 15:06:10; Dark ; 20.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 41; 0;38140

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1; 1241.2; 16-JUN-2009 15:06:10; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38141  
2; 1328.4; 16-JUN-2009 15:07:37; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38141  
3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141  
4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141  
5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141  
6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141  
7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141  
8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141  
9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141  
10; 3958.3; 16-JUN-2009 15:51:27; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38141  
11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141  
12; 5004.4; 16-JUN-2009 16:08:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38141  
13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141  
14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141  
15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141  
16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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1; 1241.6; 16-JUN-2009 16:46:47; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38142  
2; 1329.0; 16-JUN-2009 16:48:14; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38142  
3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142  
4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142  
5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142  
6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142  
7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142  
8; 3484.2; 16-JUN-2009 17:24:09; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38142  
9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142  
10; 3958.0; 16-JUN-2009 17:32:03; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38142  
11; 4412.2; 16-JUN-2009 17:39:37; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38142  
12; 5470.4; 16-JUN-2009 17:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38142  
13; 5577.4; 16-JUN-2009 17:59:02; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38142  
14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142  
15; 6445.9; 16-JUN-2009 18:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38142  
16; 6565.6; 16-JUN-2009 18:15:31; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38142

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2; 1329.2; 16-JUN-2009 18:28:50; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38143  
3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143  
4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143  
5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143  
6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143  
7; 2890.9; 16-JUN-2009 18:54:52; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38143  
8; 3483.5; 16-JUN-2009 19:04:45; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38143  
9; 3873.6; 16-JUN-2009 19:11:15; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38143  
10; 3957.9; 16-JUN-2009 19:12:39; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38143  
11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143  
12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143  
13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143  
14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143  
15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143  
16; 6566.8; 16-JUN-2009 19:56:08; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38143

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3; 290.3; 17-JUN-2009 00:53:55; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38147  
4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147  
5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147  
6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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8; 1436.8; 17-JUN-2009 01:13:01; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38147
9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
10; 2153.3; 17-JUN-2009 01:24:58; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38147
11; 2785.7; 17-JUN-2009 01:35:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38147
12; 2888.9; 17-JUN-2009 01:37:14; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38147
13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
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15; 3956.6; 17-JUN-2009 01:55:01; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38147
16; 4412.5; 17-JUN-2009 02:02:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38147
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2; -453.3; 17-JUN-2009 02:22:07; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38147
3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
4; 414.4; 17-JUN-2009 02:36:35; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38148
5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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3; -1623.5; 17-JUN-2009 03:43:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38148
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 3; 304.0; 18-JUN-2009 00:22:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38161
 4; 427.1; 18-JUN-2009 00:24:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38161
 5; 553.2; 18-JUN-2009 00:26:41; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38161
 6; 1249.5; 18-JUN-2009 00:38:17; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38161
 7; 1335.4; 18-JUN-2009 00:39:43; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38161
 8; 1439.9; 18-JUN-2009 00:41:28; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38161
 9; 2000.7; 18-JUN-2009 00:50:48; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38161
10; 2149.6; 18-JUN-2009 00:53:17; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;occ; 60; 0;38161
11; 2773.6; 18-JUN-2009 01:03:41; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38161

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13; 3471.1; 18-JUN-2009 01:15:19; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38161
14; 3866.9; 18-JUN-2009 01:21:55; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38161
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16; 4413.2; 18-JUN-2009 01:31:01; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38161
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 4; 428.2; 18-JUN-2009 02:05:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38162
 5; 554.2; 18-JUN-2009 02:07:18; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38162
 6; 1250.0; 18-JUN-2009 02:18:54; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38162
 7; 1335.7; 18-JUN-2009 02:20:19; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38162
 8; 1440.4; 18-JUN-2009 02:22:04; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38162
 9; 2000.4; 18-JUN-2009 02:31:24; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38162
10; 2149.3; 18-JUN-2009 02:33:53; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;occ; 60; 0;38162
11; 2772.7; 18-JUN-2009 02:44:16; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38162
12; 2881.8; 18-JUN-2009 02:46:05; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38162
13; 3470.6; 18-JUN-2009 02:55:54; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38162
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 3; -1622.7; 18-JUN-2009 03:11:37; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38162
 4; -1344.9; 18-JUN-2009 03:16:15; Dark ; 24.0; 105; 6Bet Ari ; 2.64; 8900;occ; 48; 0;38162
 5; -541.6; 18-JUN-2009 03:29:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38162
 6; -436.9; 18-JUN-2009 03:31:23; Dark ; 35.5; 52; 16Bet Cet ; 2.04; 4500;occ; 71; 0;38162
 7; 306.5; 18-JUN-2009 03:43:46; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38163
 8; 429.5; 18-JUN-2009 03:45:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38163
 9; 555.7; 18-JUN-2009 03:47:55; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38163
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11; 1336.1; 18-JUN-2009 04:00:56; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38163
12; 1440.4; 18-JUN-2009 04:02:40; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38163
13; 2000.4; 18-JUN-2009 04:12:00; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38163
14; 2149.2; 18-JUN-2009 04:14:29; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;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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 3; -1622.5; 18-JUN-2009 04:52:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38163
 4; -1344.5; 18-JUN-2009 04:56:51; Dark ; 24.0; 105; 6Bet Ari ; 2.64; 8900;occ; 48; 0;38163
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 6; -435.7; 18-JUN-2009 05:12:00; Dark ; 35.5; 52; 16Bet Cet ; 2.04; 4500;occ; 71; 0;38163
 7; 307.0; 18-JUN-2009 05:24:22; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38164
 8; 430.3; 18-JUN-2009 05:26:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38164
 9; 556.9; 18-JUN-2009 05:28:32; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38164
10; 1251.2; 18-JUN-2009 05:40:07; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38164
11; 1336.7; 18-JUN-2009 05:41:32; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38164
12; 1441.0; 18-JUN-2009 05:43:16; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38164
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
15; 2771.1; 18-JUN-2009 06:05:27; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38164
16; 2880.9; 18-JUN-2009 06:07:16; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38164
17; 3469.3; 18-JUN-2009 06:17:05; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 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
 5; 2146.5; 18-JUN-2009 21:00:25; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38173
 6; 2763.8; 18-JUN-2009 21:10:43; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38173
 7; 2876.6; 18-JUN-2009 21:12:36; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38173
 8; 3463.0; 18-JUN-2009 21:22:22; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38173
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10; 3949.3; 18-JUN-2009 21:30:28; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38173
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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174  
 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  
 8; 1443.2; 18-JUN-2009 22:29:18; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38174  
 9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174  
 10; 2146.3; 18-JUN-2009 22:41:01; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38174  
 11; 2762.7; 18-JUN-2009 22:51:18; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38174  
 12; 2876.2; 18-JUN-2009 22:53:11; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38174  
 13; 3462.1; 18-JUN-2009 23:02:57; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38174  
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 15; 3949.1; 18-JUN-2009 23:11:04; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38174  
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 4; 440.9; 18-JUN-2009 23:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38175  
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 6; 1255.5; 19-JUN-2009 00:06:46; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38175  
 7; 1340.0; 19-JUN-2009 00:08:11; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38175  
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 12; 2875.6; 19-JUN-2009 00:33:46; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38175  
 13; 3461.2; 19-JUN-2009 00:43:32; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38175  
 14; 3861.7; 19-JUN-2009 00:50:12; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38175  
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 11; 1336.9; 18-JUN-2009 07:22:08; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38165  
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 3; 2770.4; 18-JUN-2009 07:46:02; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;38165  
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 5; 3468.5; 18-JUN-2009 07:57:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38165  
 6; 3865.7; 18-JUN-2009 08:04:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38165  
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3; 2769.5; 18-JUN-2009 09:26:37; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;38166
4; 2879.8; 18-JUN-2009 09:28:27; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38166
5; 3467.8; 18-JUN-2009 09:38:15; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38166
6; 3865.2; 18-JUN-2009 09:44:53; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38166
7; 3951.5; 18-JUN-2009 09:46:19; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38166
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9; 1446.9; 19-JUN-2009 21:57:45; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38188
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 13; 4634.2; 19-JUN-2009 19:29:40; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38186  
 14; 5525.1; 19-JUN-2009 19:44:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38186  
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 16; 5983.6; 19-JUN-2009 19:52:10; Dark ; 30.5; 84; Alp Phe ; 2.40; 4500;occ; 61; 0;38186  
 17; 6366.1; 19-JUN-2009 19:58:32; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38186  
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5; 3877.2; 21-JUN-2009 11:31:25; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38210
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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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