

# GOMOS Daily Report 31-JUL-2009

## Level 0 and Level 1 products

### SUMMARY

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

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

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

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

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

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

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

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

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

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

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

## [Level 2 products](#)

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	03AUG2009 05:20:09
Data source version	GOMOS/5.00
Start time of products	31JUL2009 00:08:51
Stop time of products	31JUL2009 23:54:03
Store outputs in DB	Yes
Nb of level 1b prods	96
Nb of prods with errors	1

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

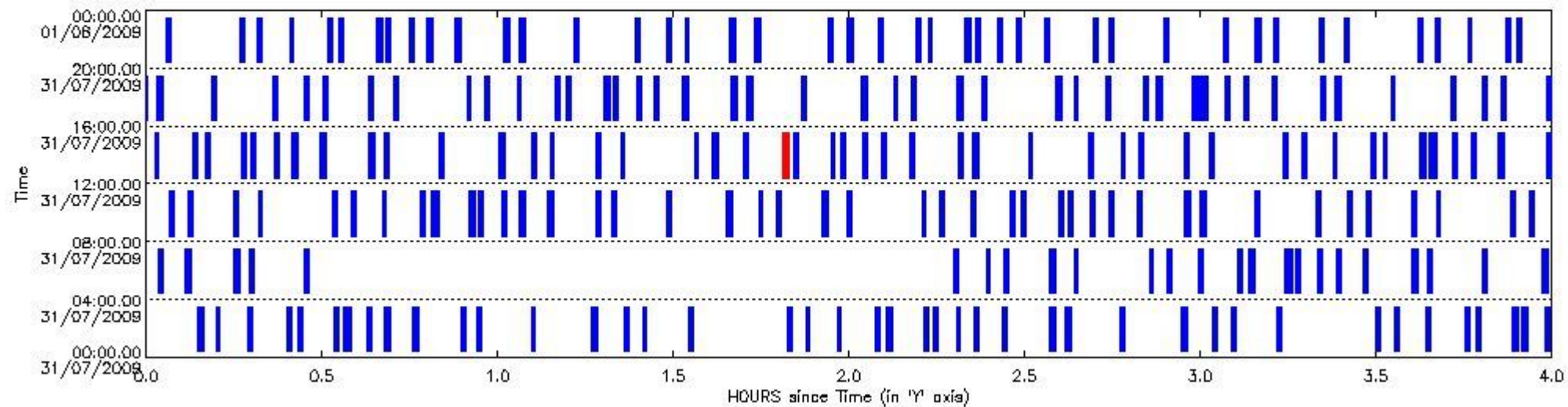
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
31-JUL-2009 13:48:35	11BetCas	74	38784

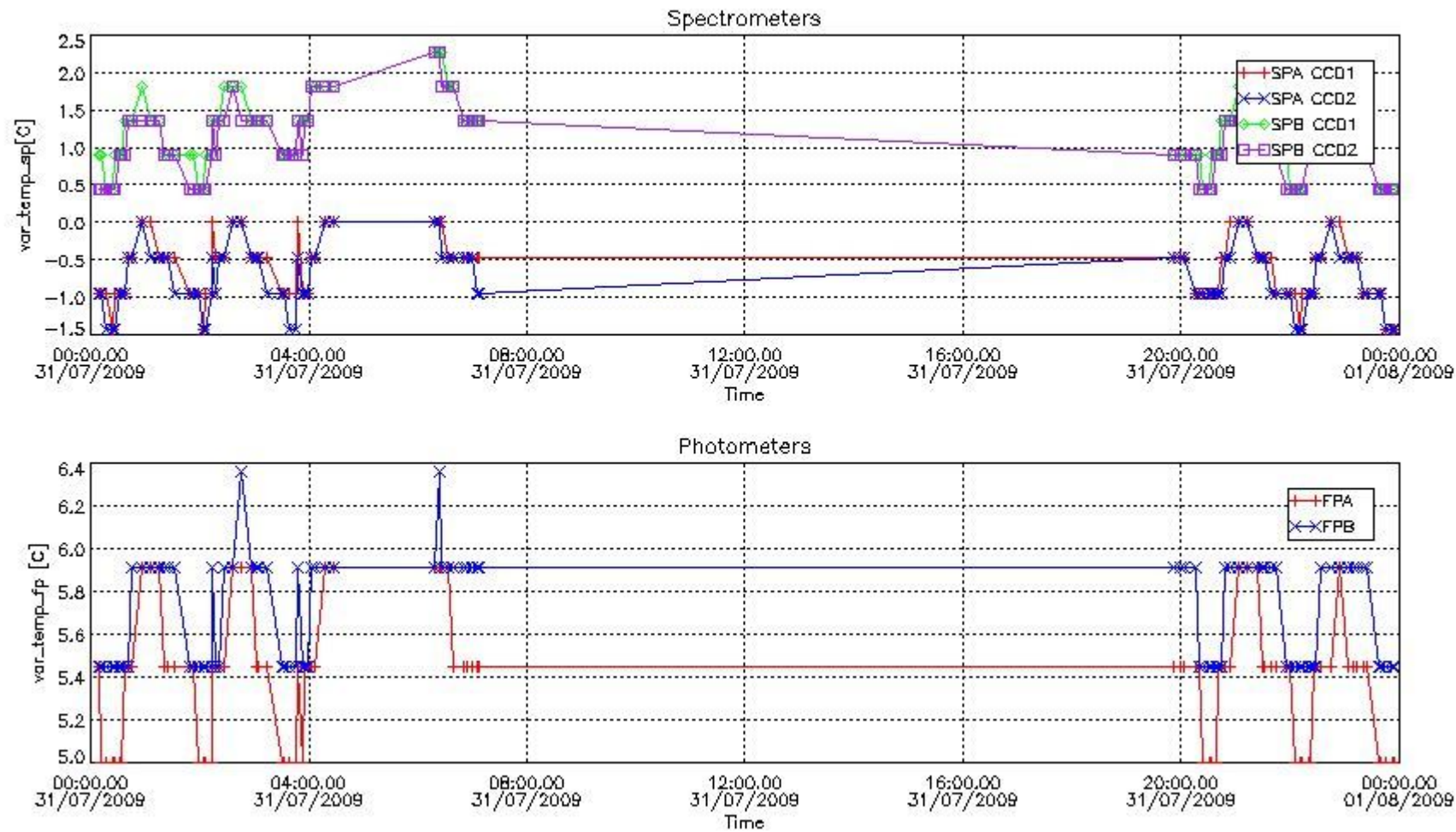
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090731_000851_000000652081_00145_38776_2033.N1	31-JUL-2009 00:08:51	Bright	65.000	92	53Eps Cyg	2.5000	4500.0	130	38776	No
2	GOM_TRA_1PNPDE20090731_001157_000000402081_00145_38776_2034.N1	31-JUL-2009 00:11:57	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	38776	No
3	GOM_TRA_1PNPDE20090731_001721_000000412081_00145_38776_2035.N1	31-JUL-2009 00:17:21	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	38776	No
4	GOM_TRA_1PNPDE20090731_002354_000000522081_00145_38776_2036.N1	31-JUL-2009 00:23:54	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	38776	No
5	GOM_TRA_1PNPDE20090731_002550_000000512081_00145_38776_2037.N1	31-JUL-2009 00:25:50	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	38776	No
6	GOM_TRA_1PNPDE20090731_003207_000000472081_00145_38776_2038.N1	31-JUL-2009 00:32:07	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	38776	No
7	GOM_TRA_1PNPDE20090731_003346_000000682081_00145_38776_2039.N1	31-JUL-2009 00:33:46	Bright	68.000	35	33Alp Per	1.7950	6250.0	136	38776	No
8	GOM_TRA_1PNPDE20090731_003739_000000492081_00145_38776_2040.N1	31-JUL-2009 00:37:39	Bright	49.000	149	45Eps Per	2.8880	30000.	98	38776	No
9	GOM_TRA_1PNPDE20090731_004042_000000542081_00145_38776_2041.N1	31-JUL-2009 00:40:42	Tw_i_and_stray	54.000	150	44Zet Per	2.8900	28000.	108	38776	No
10	GOM_TRA_1PNPDE20090731_004527_000000582081_00145_38776_2042.N1	31-JUL-2009 00:45:27	Dark	58.000	13	87Alp Tau	0.86700	3800.0	116	38776	No



70	GOM_TRA_1PNPDE20090731_212321_000000542081_00158_38789_3218.N1	31-JUL-2009 21:23:21	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	38789	No
71	GOM_TRA_1PNPDE20090731_212849_000000442081_00158_38789_3219.N1	31-JUL-2009 21:28:49	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	38789	No
72	GOM_TRA_1PNPDE20090731_213157_000000452081_00158_38789_3220.N1	31-JUL-2009 21:31:57	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	38789	No
73	GOM_TRA_1PNPDE20090731_213940_000000532081_00158_38789_3221.N1	31-JUL-2009 21:39:40	Bright	53.000	142	49Del Cap	2.8500	8900.0	106	38789	No
74	GOM_TRA_1PNPDE20090731_214355_000000532081_00158_38789_3222.N1	31-JUL-2009 21:43:55	Bright	53.000	154	22Bet Aqr	2.8990	5700.0	106	38789	No
75	GOM_TRA_1PNPDE20090731_215631_000000472081_00158_38789_3223.N1	31-JUL-2009 21:56:31	Bright	46.500	92	53Eps Cyg	2.5000	4500.0	93	38789	No
76	GOM_TRA_1PNPDE20090731_215937_000000612081_00158_38789_3224.N1	31-JUL-2009 21:59:37	Bright	61.000	19	50Alp Cyg	1.2460	10500.	122	38789	No
77	GOM_TRA_1PNPDE20090731_220502_000000422081_00158_38789_3225.N1	31-JUL-2009 22:05:02	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	38789	No
78	GOM_TRA_1PNPDE20090731_221131_000000502081_00158_38789_3226.N1	31-JUL-2009 22:11:31	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38789	No
79	GOM_TRA_1PNPDE20090731_221328_000000462081_00158_38789_3227.N1	31-JUL-2009 22:13:28	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	38789	No
80	GOM_TRA_1PNPDE20090731_221950_000000522081_00158_38789_3228.N1	31-JUL-2009 22:19:50	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	38789	No
81	GOM_TRA_1PNPDE20090731_222129_000000512081_00158_38789_3229.N1	31-JUL-2009 22:21:29	Bright	50.500	35	33Alp Per	1.7950	6250.0	101	38789	No
82	GOM_TRA_1PNPDE20090731_222526_000000502081_00158_38789_3230.N1	31-JUL-2009 22:25:26	Bright	49.500	149	45Eps Per	2.8880	30000.	99	38789	No
83	GOM_TRA_1PNPDE20090731_222831_000000542081_00158_38789_3231.N1	31-JUL-2009 22:28:31	Twilight_stray	54.000	150	44Zet Per	2.8900	28000.	108	38789	No
84	GOM_TRA_1PNPDE20090731_223319_000000612081_00158_38789_3232.N1	31-JUL-2009 22:33:19	Dark	60.500	13	87Alp Tau	0.86700	3800.0	121	38789	No
85	GOM_TRA_1PNPDE20090731_224416_000000542081_00158_38789_3376.N1	31-JUL-2009 22:44:16	Dark	53.500	165	34Gam Eri	2.9500	3200.0	107	38789	No
86	GOM_TRA_1PNPDE20090731_225341_000000452081_00158_38789_3377.N1	31-JUL-2009 22:53:41	Dark	44.500	157	The1Eri	2.9060	9300.0	89	38789	No
87	GOM_TRA_1PNPDE20090731_230358_000000532081_00159_38790_3378.N1	31-JUL-2009 23:03:58	Straylight	53.000	84	Alp Phe	2.3970	4500.0	106	38790	No
88	GOM_TRA_1PNPDE20090731_230925_000000492081_00159_38790_3379.N1	31-JUL-2009 23:09:25	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38790	No
89	GOM_TRA_1PNPDE20090731_231234_000000462081_00159_38790_3380.N1	31-JUL-2009 23:12:34	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	38790	No
90	GOM_TRA_1PNPDE20090731_232016_000000532081_00159_38790_3381.N1	31-JUL-2009 23:20:16	Bright	52.500	142	49Del Cap	2.8500	8900.0	105	38790	No
91	GOM_TRA_1PNPDE20090731_232430_000000592081_00159_38790_3382.N1	31-JUL-2009 23:24:30	Bright	59.000	154	22Bet Aqr	2.8990	5700.0	118	38790	No
92	GOM_TRA_1PNPDE20090731_233706_000000442081_00159_38790_3383.N1	31-JUL-2009 23:37:06	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	38790	No
93	GOM_TRA_1PNPDE20090731_234013_000000402081_00159_38790_3384.N1	31-JUL-2009 23:40:13	Bright	39.500	19	50Alp Cyg	1.2460	10500.	79	38790	No
94	GOM_TRA_1PNPDE20090731_234537_000000372081_00159_38790_3385.N1	31-JUL-2009 23:45:37	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	38790	No
95	GOM_TRA_1PNPDE20090731_235206_000000502081_00159_38790_3386.N1	31-JUL-2009 23:52:06	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38790	No
96	GOM_TRA_1PNPDE20090731_235403_000000492081_00159_38790_3387.N1	31-JUL-2009 23:54:03	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	38790	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).

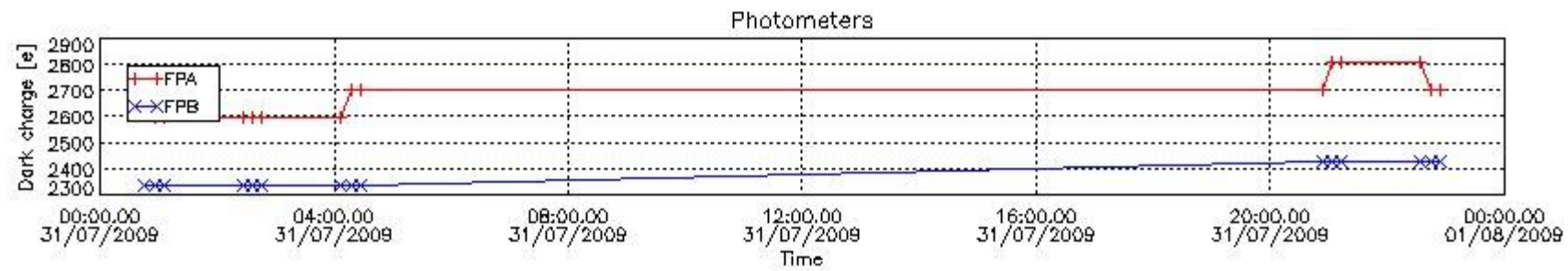
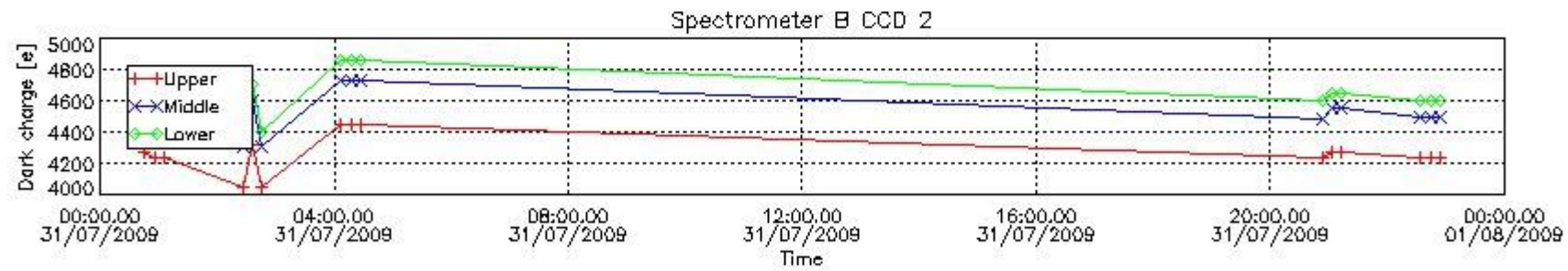
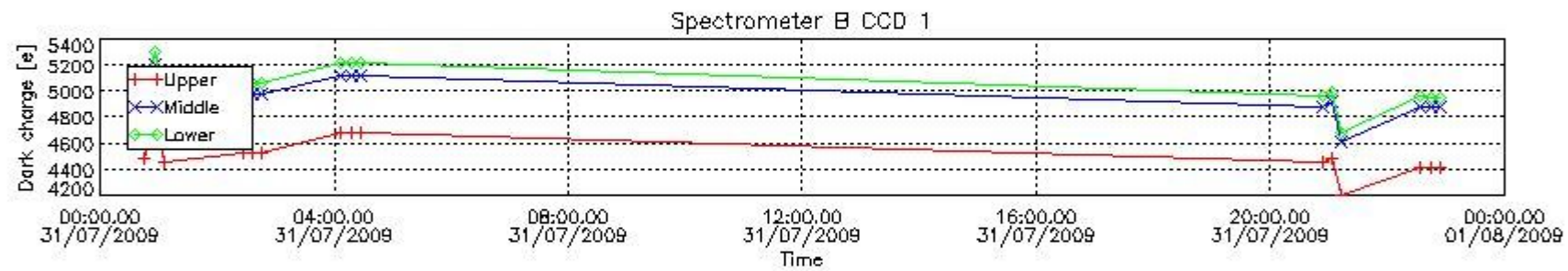
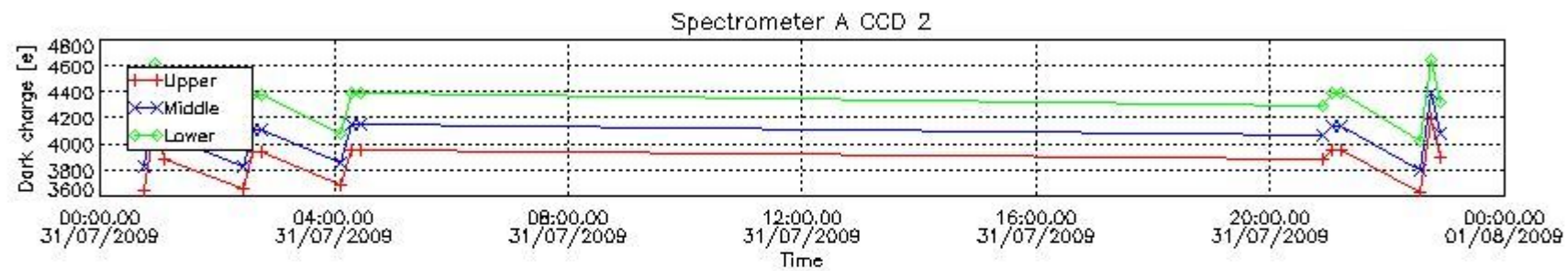
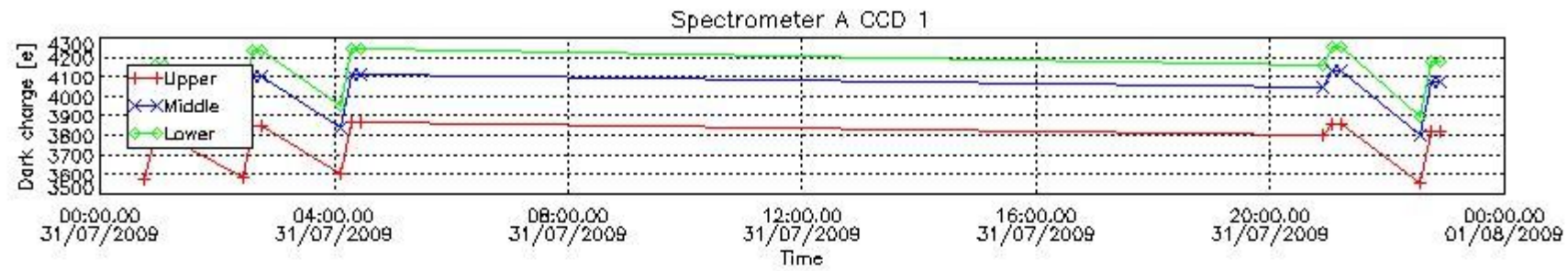
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090731_005617_000000552081_00145_38776_2173.N1	DC map used
GOM_TRA_1PNPDE20090731_010542_000000462081_00145_38776_2174.N1	DC map used
GOM_TRA_1PNPDE20090731_011557_000000672081_00146_38777_2175.N1	DC map used
GOM_TRA_1PNPDE20090731_012131_000000472081_00146_38777_2176.N1	DC map used
GOM_TRA_1PNPDE20090731_012440_000000462081_00146_38777_2177.N1	DC map used
GOM_TRA_1PNPDE20090731_013228_000000552081_00146_38777_2178.N1	DC map used
GOM_TRA_1PNPDE20090731_014926_000000452081_00146_38777_2179.N1	DC map used
GOM_TRA_1PNPDE20090731_015232_000000412081_00146_38777_2180.N1	DC map used
GOM_TRA_1PNPDE20090731_015756_000000372081_00146_38777_2181.N1	DC map used
GOM_TRA_1PNPDE20090731_020429_000000492081_00146_38777_2182.N1	DC map used
GOM_TRA_1PNPDE20090731_020625_000000672081_00146_38777_2183.N1	DC map used
GOM_TRA_1PNPDE20090731_021243_000000472081_00146_38777_2184.N1	DC map used
GOM_TRA_1PNPDE20090731_061748_000000552081_00149_38780_2653.N1	DC map used
GOM_TRA_1PNPDE20090731_062321_000000462081_00149_38780_2654.N1	DC map used

GOM_TRA_1PNPDE20090731_062630_000000452081_00149_38780_2655.N1	DC map used
GOM_TRA_1PNPDE20090731_063416_000000532081_00149_38780_2656.N1	DC map used
GOM_TRA_1PNPDE20090731_063833_000000282081_00149_38780_2657.N1	DC map used
GOM_TRA_1PNPDE20090731_065112_000000452081_00149_38780_2658.N1	DC map used
GOM_TRA_1PNPDE20090731_065419_000000452081_00149_38780_2659.N1	DC map used
GOM_TRA_1PNPDE20090731_065943_000000412081_00149_38780_2660.N1	DC map used
GOM_TRA_1PNPDE20090731_070615_000000532081_00149_38780_2661.N1	DC map used
GOM_TRA_1PNPDE20090731_070811_000000722081_00149_38780_2662.N1	DC map used
GOM_TRA_1PNPDE20090731_195121_000000472081_00157_38788_3062.N1	DC map used
GOM_TRA_1PNPDE20090731_195904_000000532081_00157_38788_3063.N1	DC map used
GOM_TRA_1PNPDE20090731_200319_000000532081_00157_38788_3064.N1	DC map used
GOM_TRA_1PNPDE20090731_201555_000000432081_00157_38788_3065.N1	DC map used
GOM_TRA_1PNPDE20090731_201902_000000402081_00157_38788_3066.N1	DC map used
GOM_TRA_1PNPDE20090731_202427_000000412081_00157_38788_3067.N1	DC map used
GOM_TRA_1PNPDE20090731_203056_000000492081_00157_38788_3068.N1	DC map used
GOM_TRA_1PNPDE20090731_203253_000000482081_00157_38788_3069.N1	DC map used
GOM_TRA_1PNPDE20090731_203915_000000692081_00157_38788_3070.N1	DC map used
GOM_TRA_1PNPDE20090731_204054_000000482081_00157_38788_3071.N1	DC map used
GOM_TRA_1PNPDE20090731_204450_000000482081_00157_38788_3072.N1	DC map used
GOM_TRA_1PNPDE20090731_204755_000000522081_00157_38788_3073.N1	DC map used
GOM_TRA_1PNPDE20090731_205243_000000562081_00157_38788_3074.N1	DC map used

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



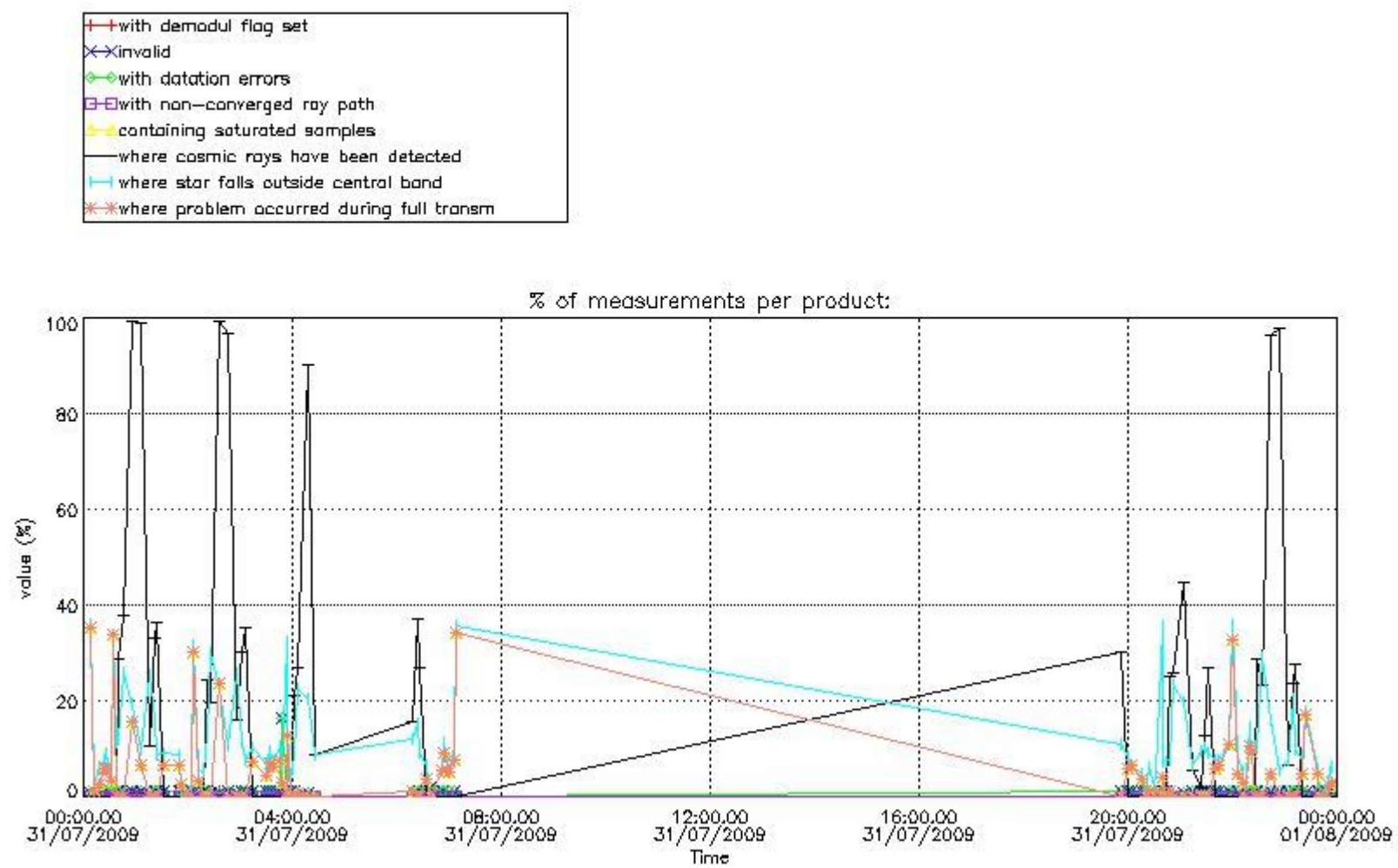
## 5. Demodulation flag and quality information monitoring

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:

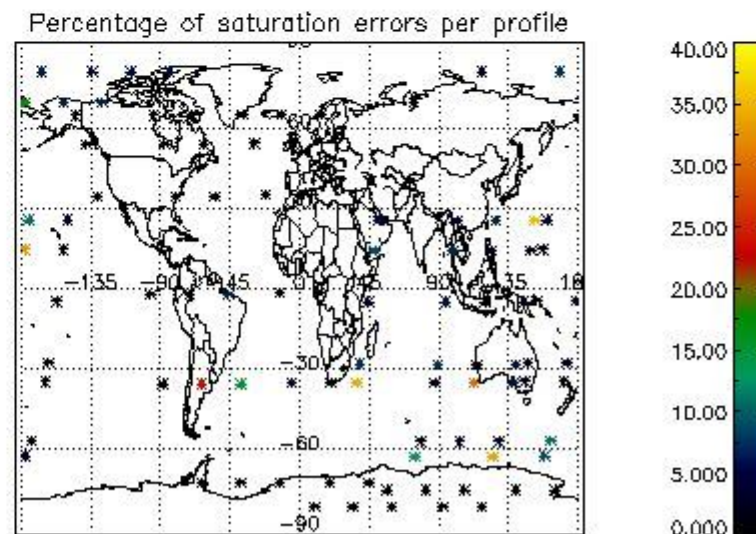
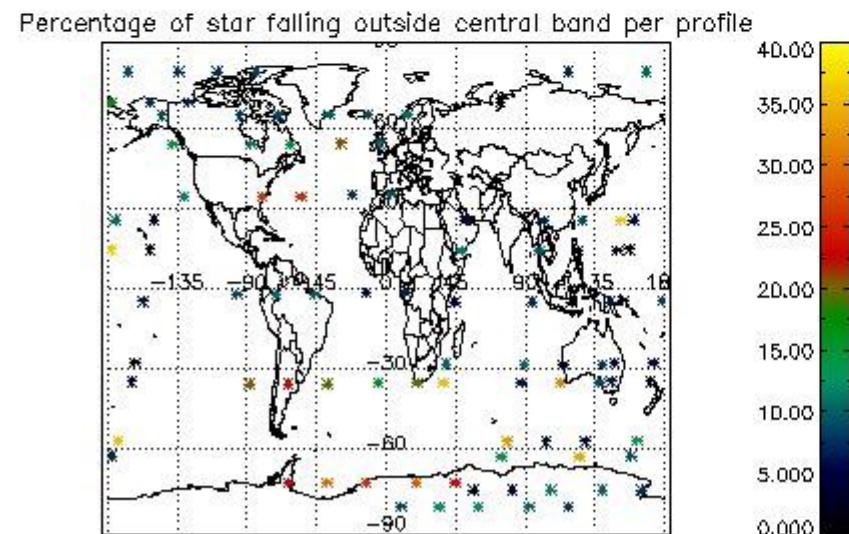
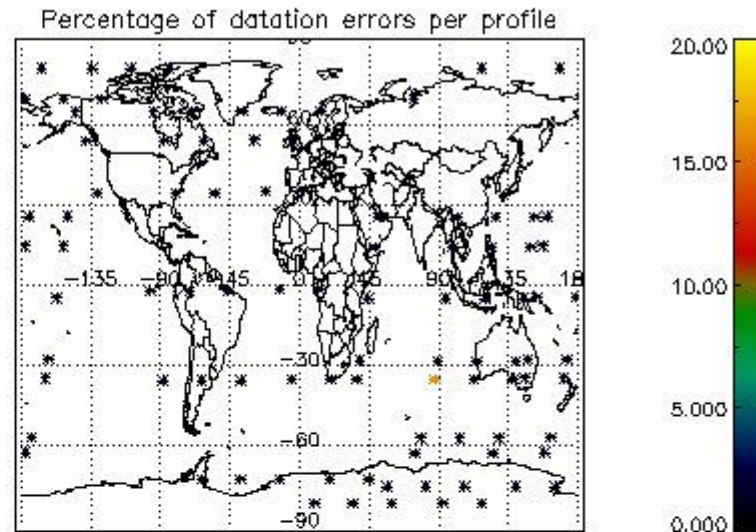
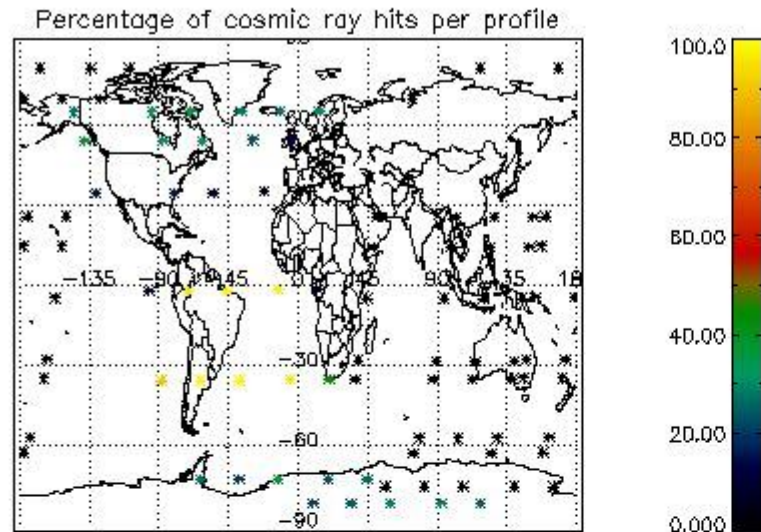
At least one measurement with demodulation flag set:	29.4737 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





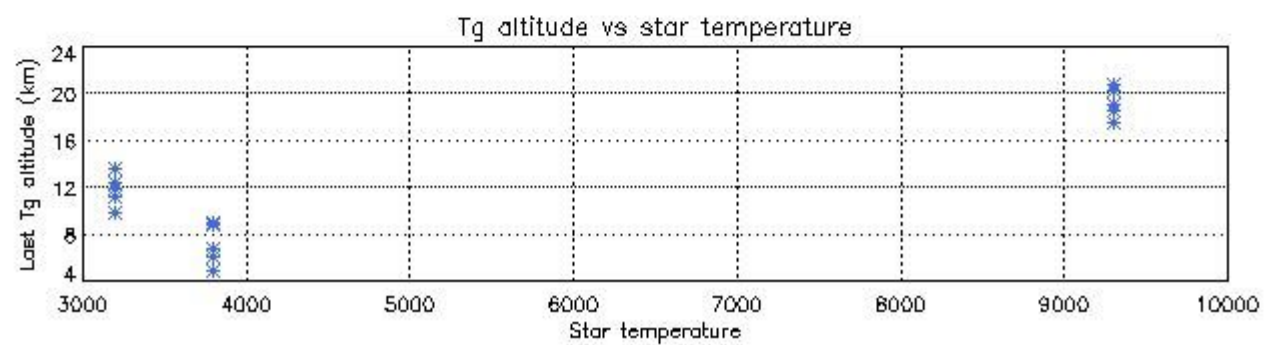
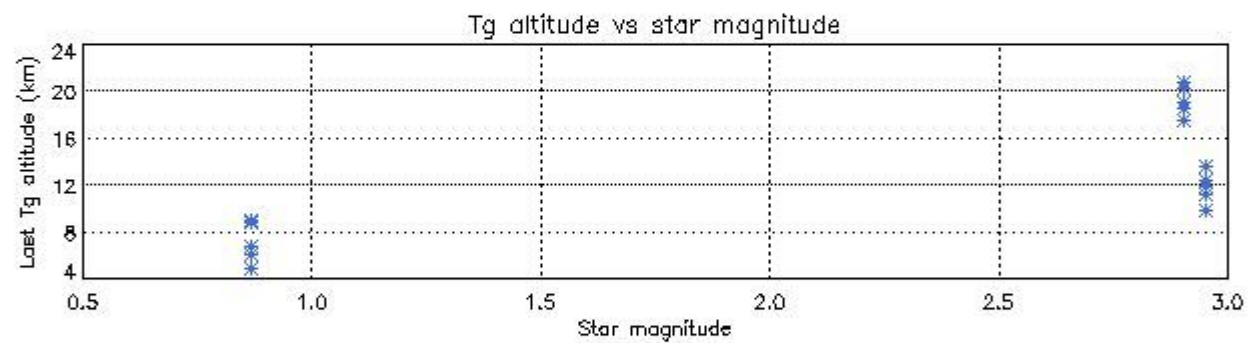
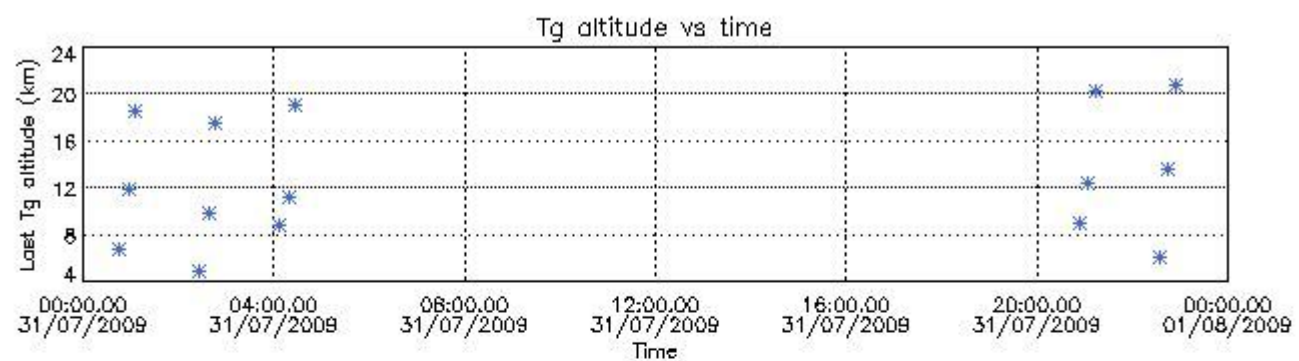
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.700	18.399	NaN
St. deviation:	5.3717	6.0804	NaN
Maximum:	20.837	29.309	NaN
Minimum:	4.8958	2.8128	NaN
Number of data:	15.000	58.000	NaN

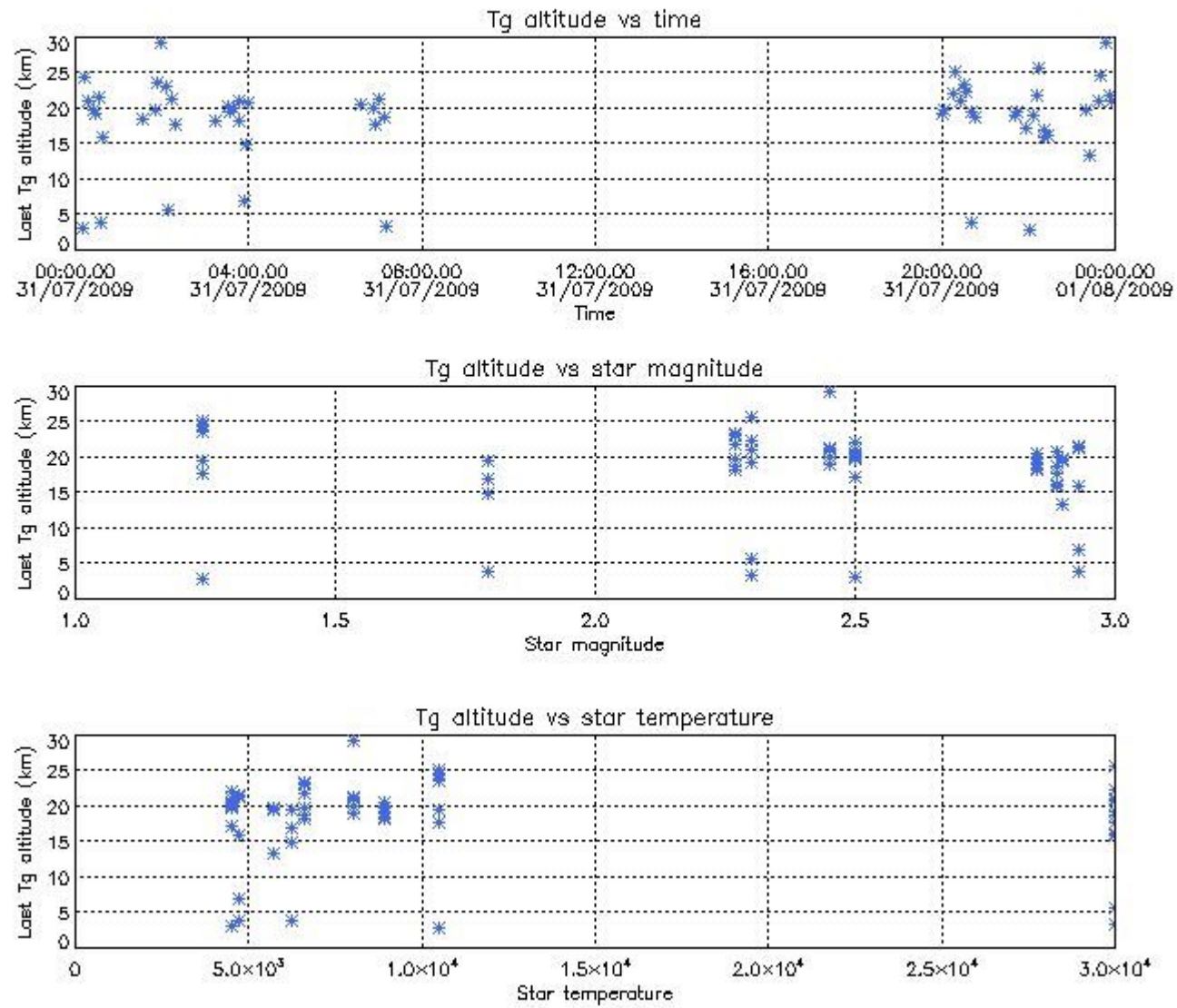
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

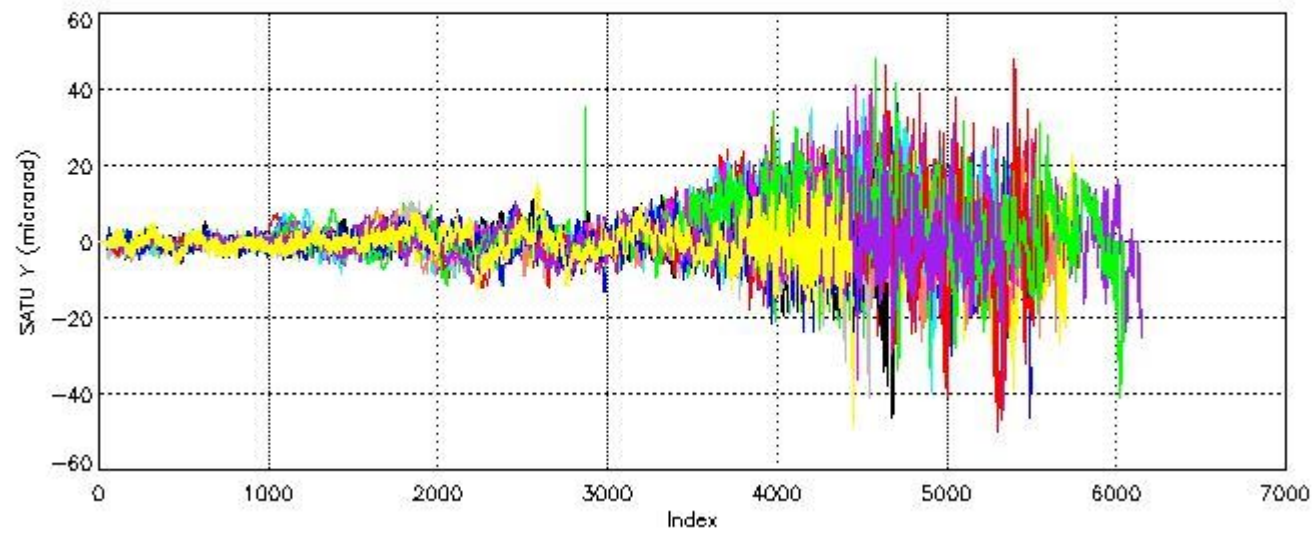
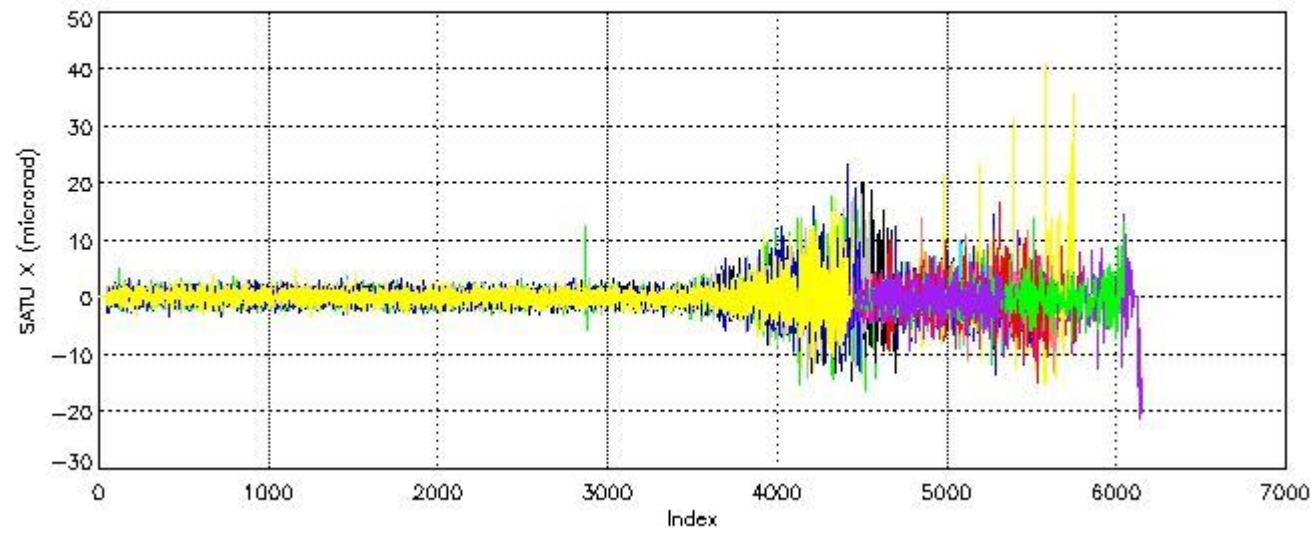


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.18605	-0.52054	0.27497	-0.51987
St. deviation:	0.48857	0.99892	0.81522	1.4143
Maximum:	5.2000	5.4000	6.7000	12.200
Minimum:	-3.5000	-6.1000	-6.4000	-8.5000

Number of data:	16350.	16350.	63200.	63200.
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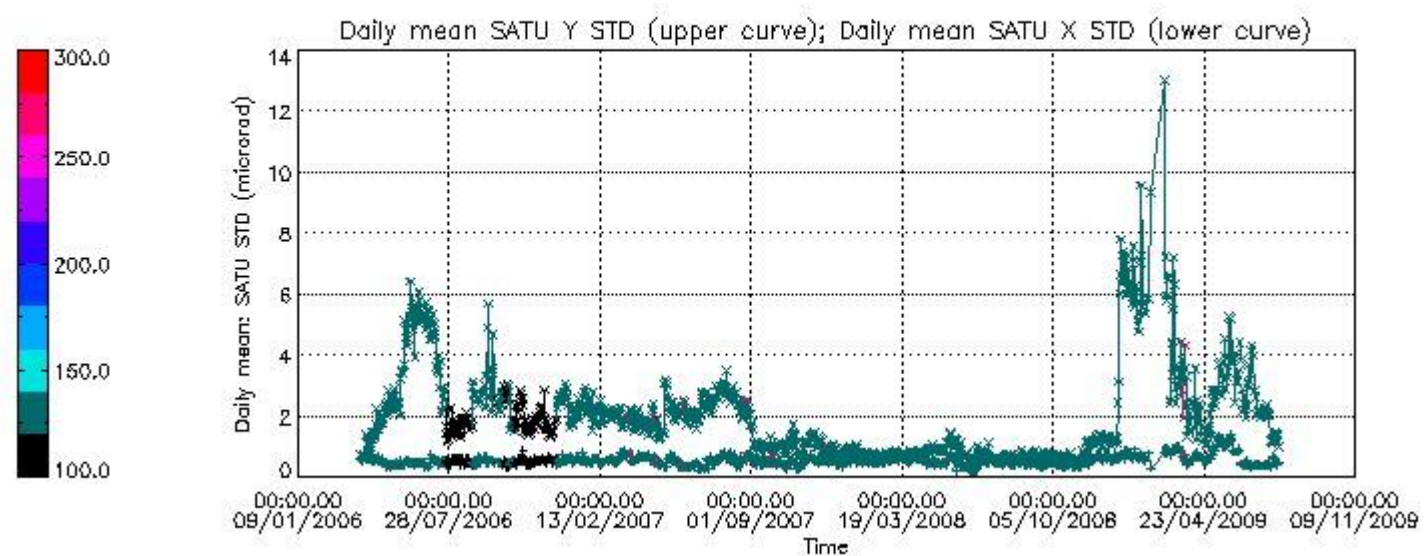
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

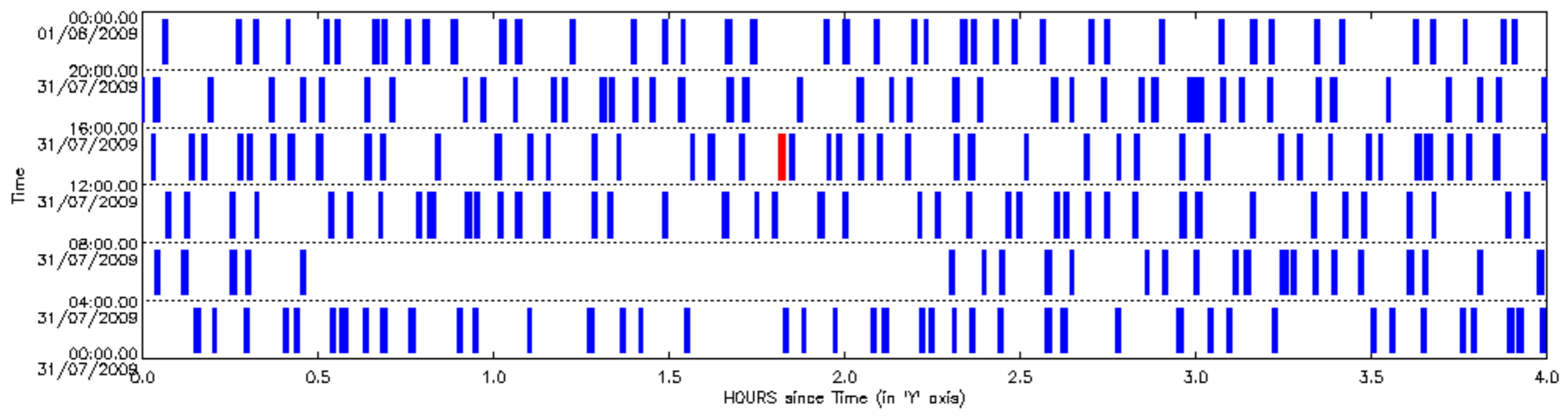
Lower curve: STD of SATU X axis

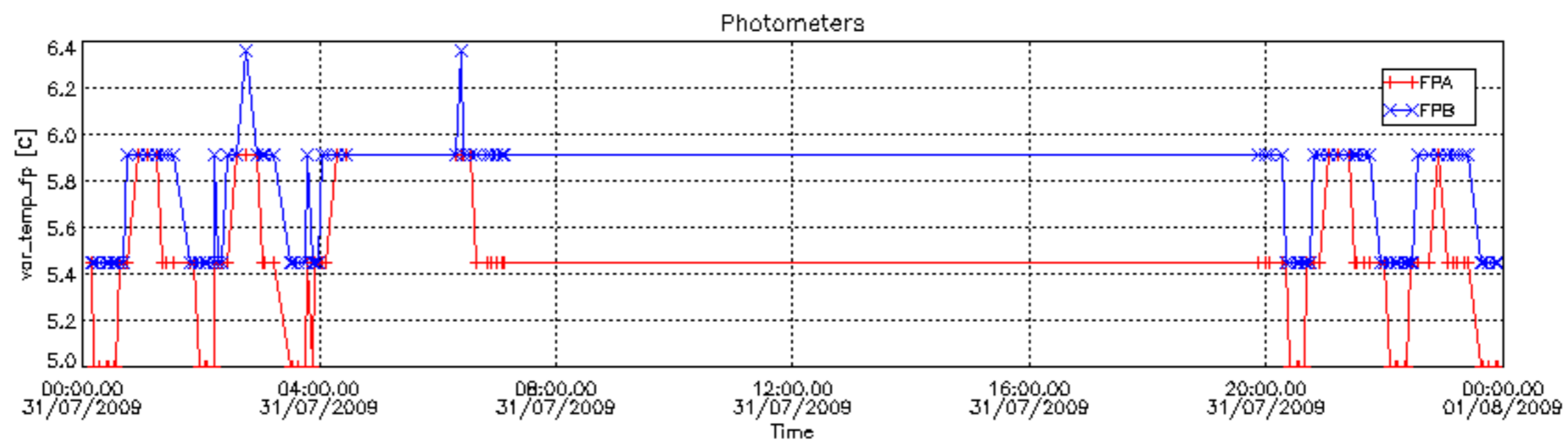
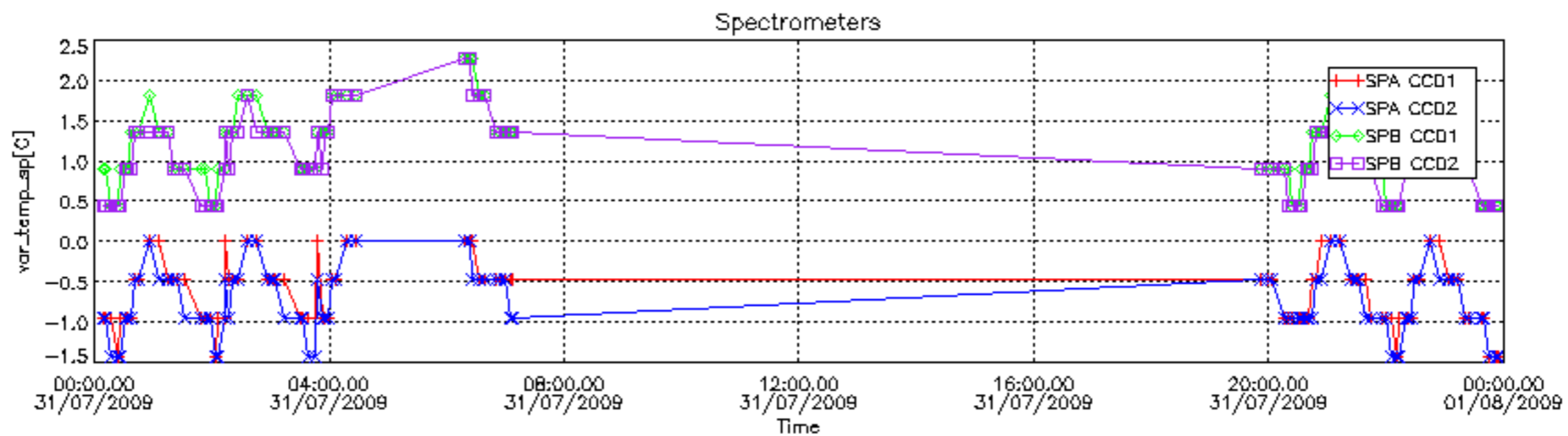


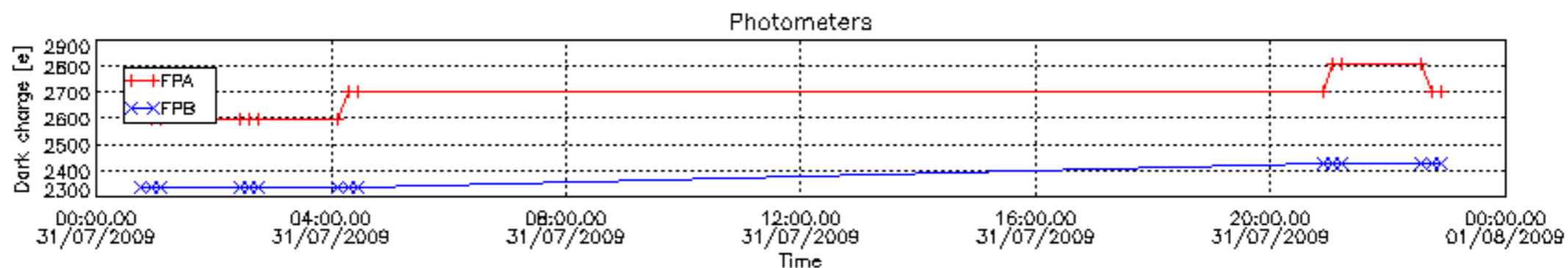
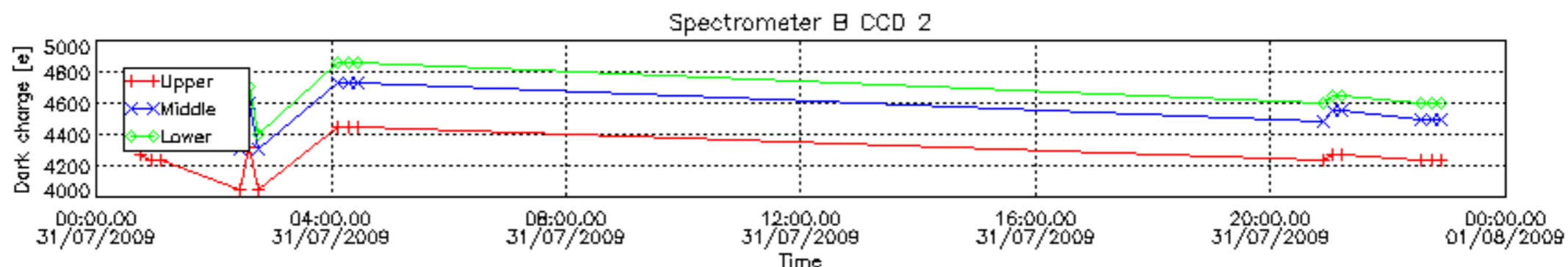
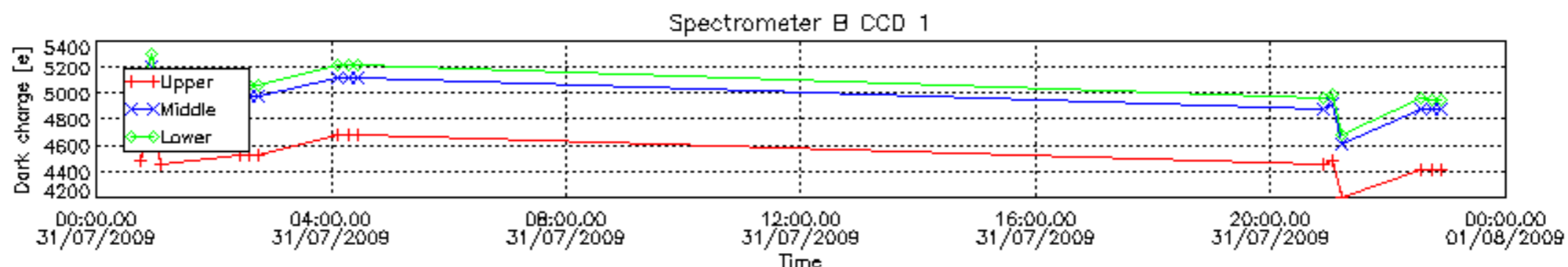
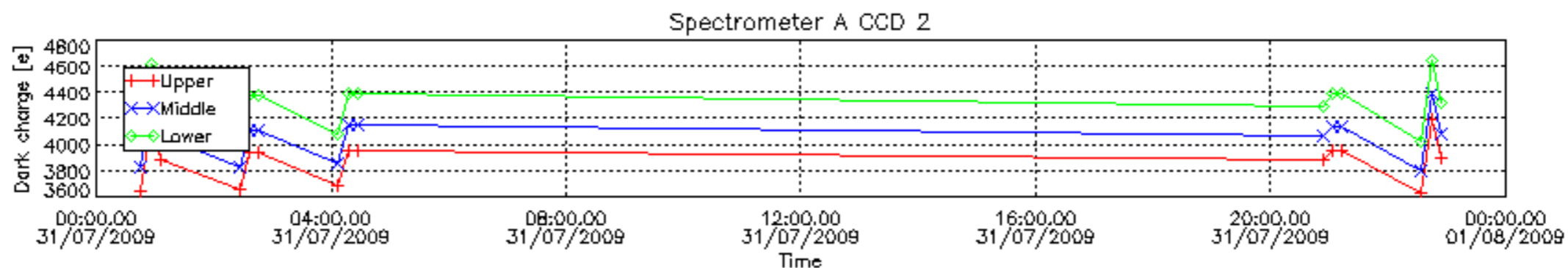
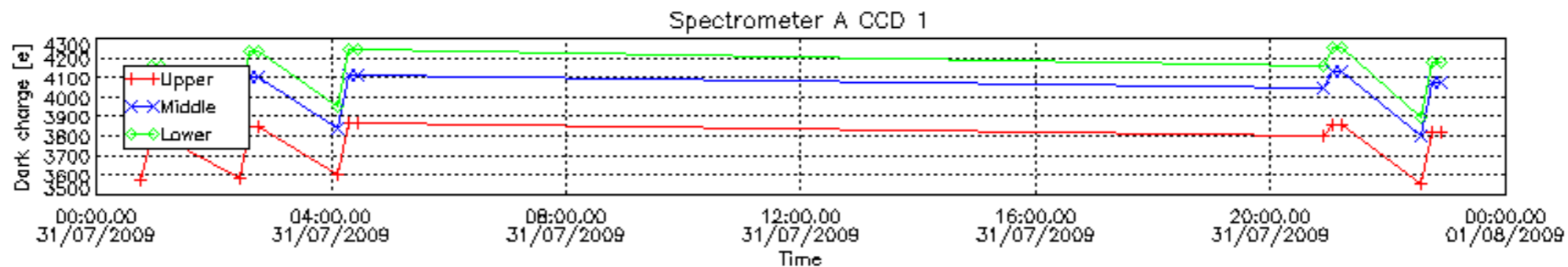
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

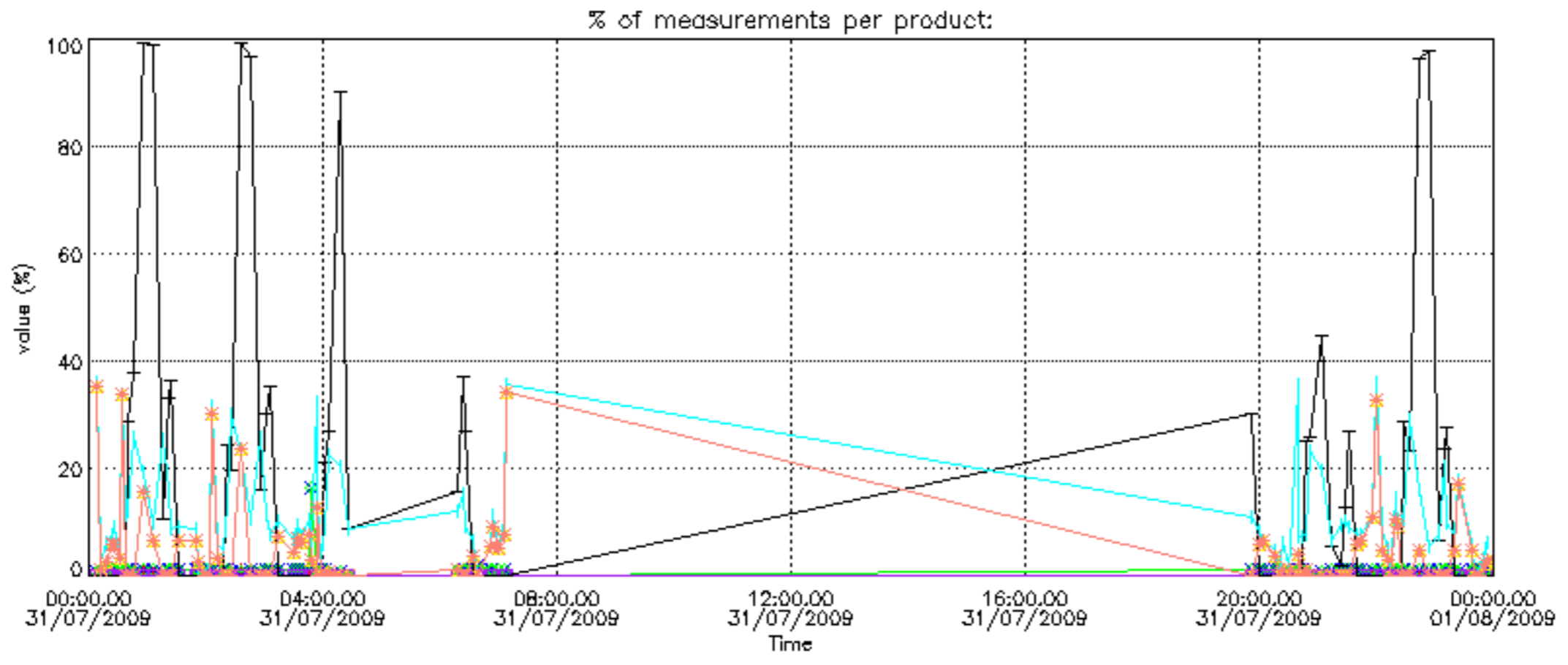
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	31-JUL-2009 00:08:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090730_093840_20090728_000000_20100101_000000	1	31-JUL-2009 00:08:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	31-JUL-2009 00:08:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-JUL-2009 00:08:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	31-JUL-2009 00:08:51
ECMWF_FILE	AUX_ECF_AXNECM20090730_064114_20090730_210000_20090731_090000	1	31-JUL-2009 00:08:51
ECMWF_FILE	AUX_ECF_AXNECM20090730_182710_20090731_030000_20090731_150000	37	31-JUL-2009 03:47:00
ECMWF_FILE	AUX_ECF_AXNECM20090731_064110_20090731_150000_20090801_030000	55	31-JUL-2009 19:51:21
ECMWF_FILE	AUX_ECF_AXNECM20090731_064110_20090731_210000_20090801_090000	68	31-JUL-2009 21:03:39
OPTIONAL_ECMWF_FILE	MISSING	1	31-JUL-2009 00:08:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090730_212714_000060572081_00143_38774_8456.N1	1	31-JUL-2009 00:08:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090730_231329_000057382081_00144_38775_8457.N1	11	31-JUL-2009 00:56:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090731_005427_000044632081_00145_38776_8458.N1	23	31-JUL-2009 02:14:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090731_021408_000051012081_00146_38777_8459.N1	37	31-JUL-2009 03:47:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090731_034428_000057382081_00147_38778_8460.N1	45	31-JUL-2009 06:17:48
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20090731_010110_20090730_182355_20090809_213045	55	31-JUL-2009 19:51:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090731_194609_000035072081_00157_38788_8462.N1	68	31-JUL-2009 21:03:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090731_204954_000063762081_00157_38788_8463.N1	85	31-JUL-2009 22:44:16



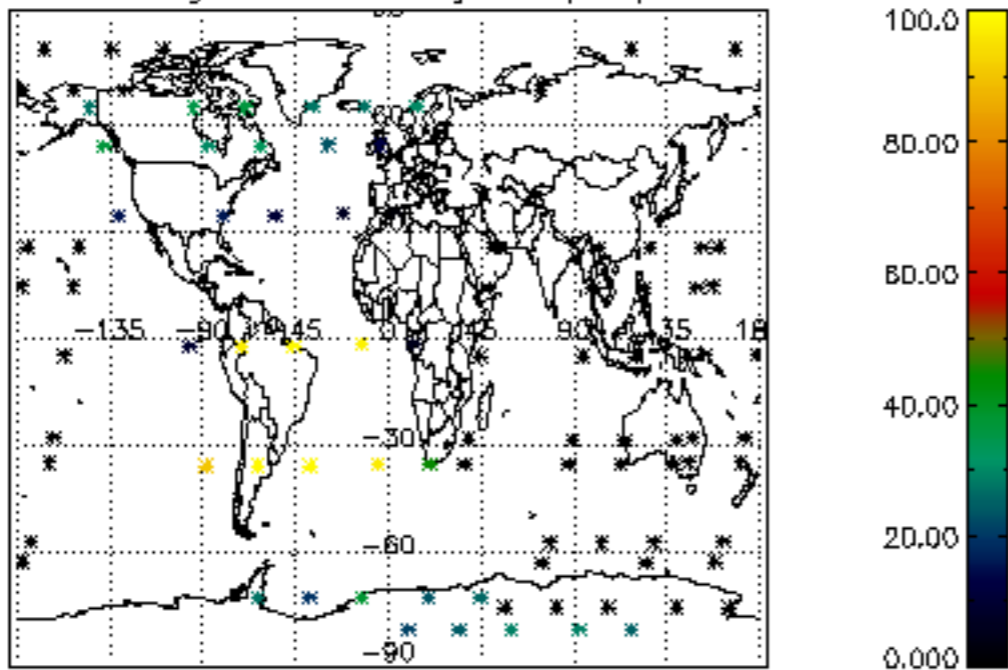




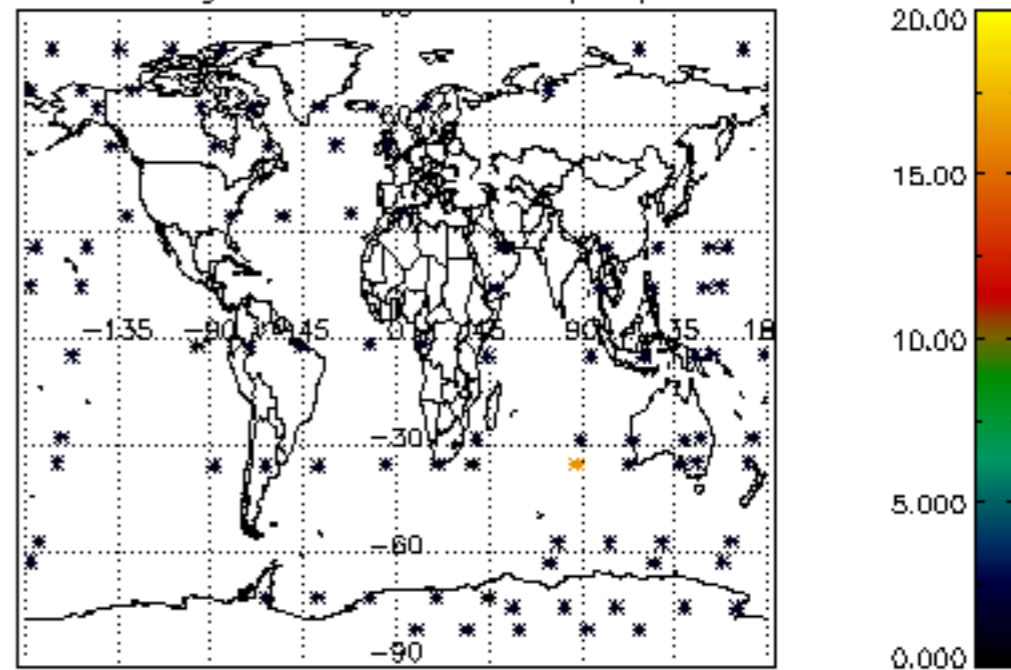




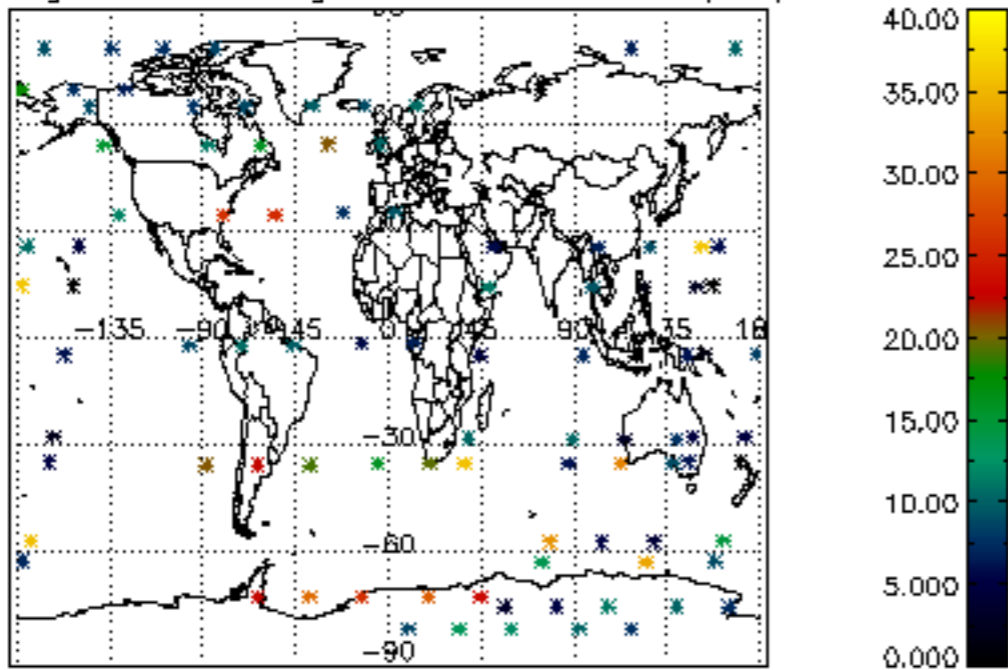
Percentage of cosmic ray hits per profile



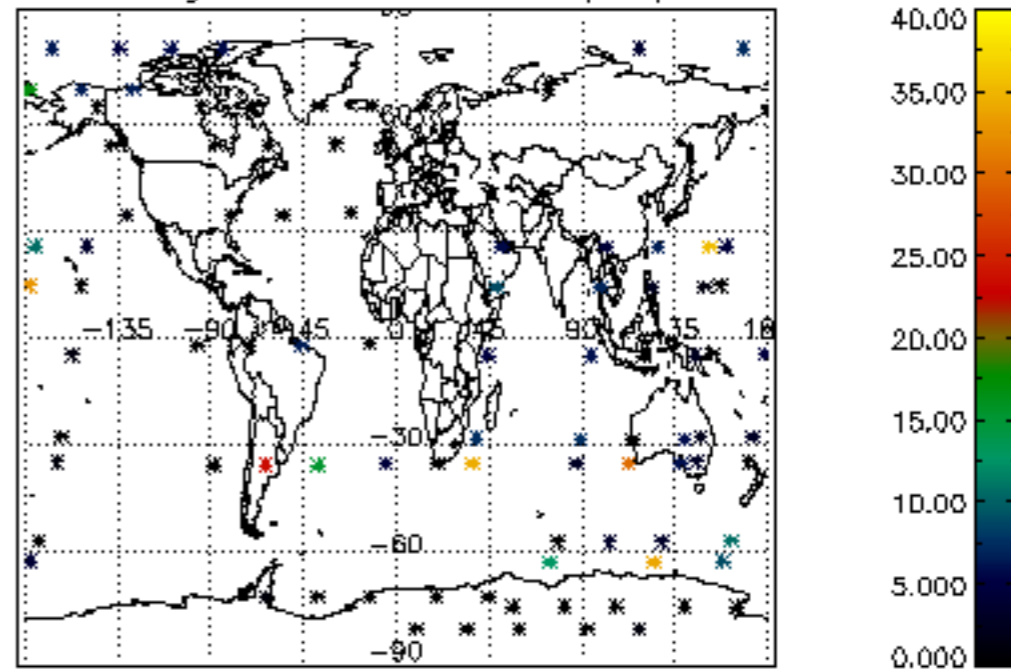
Percentage of datation errors per profile



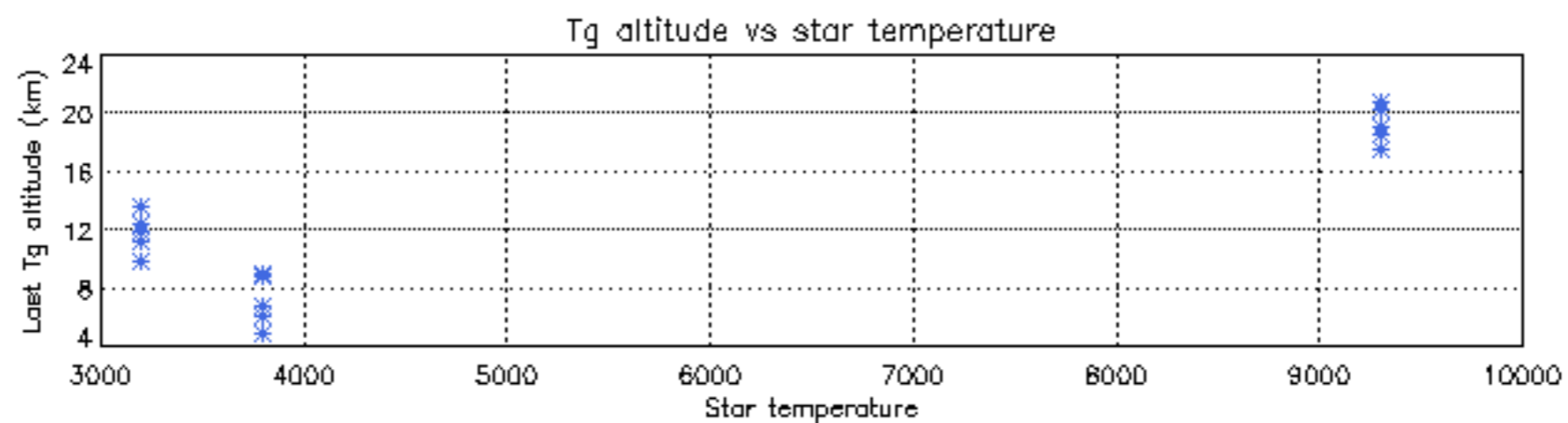
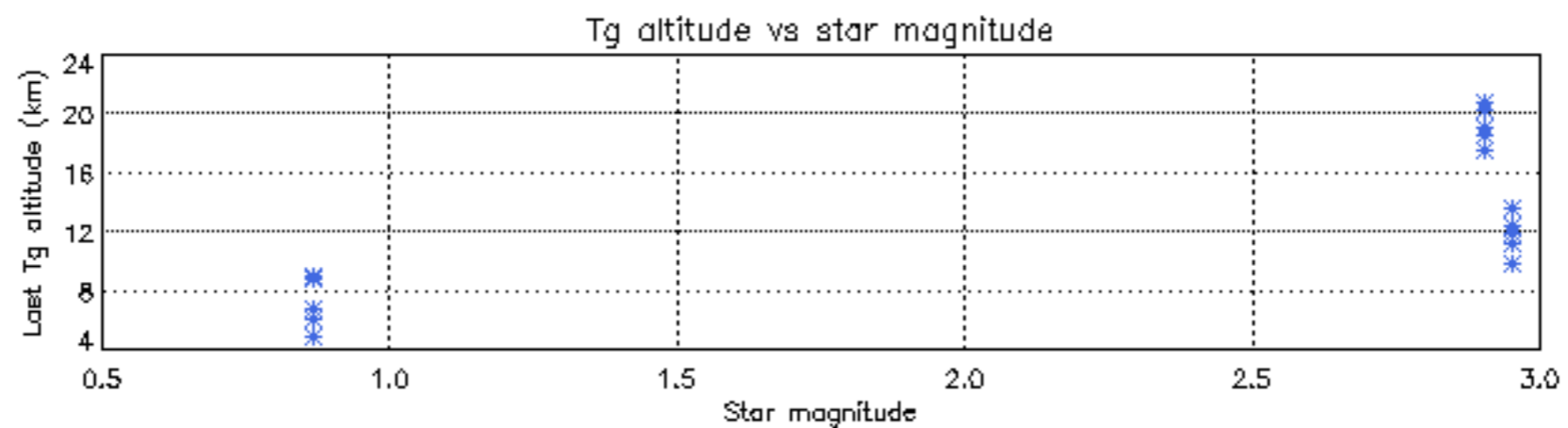
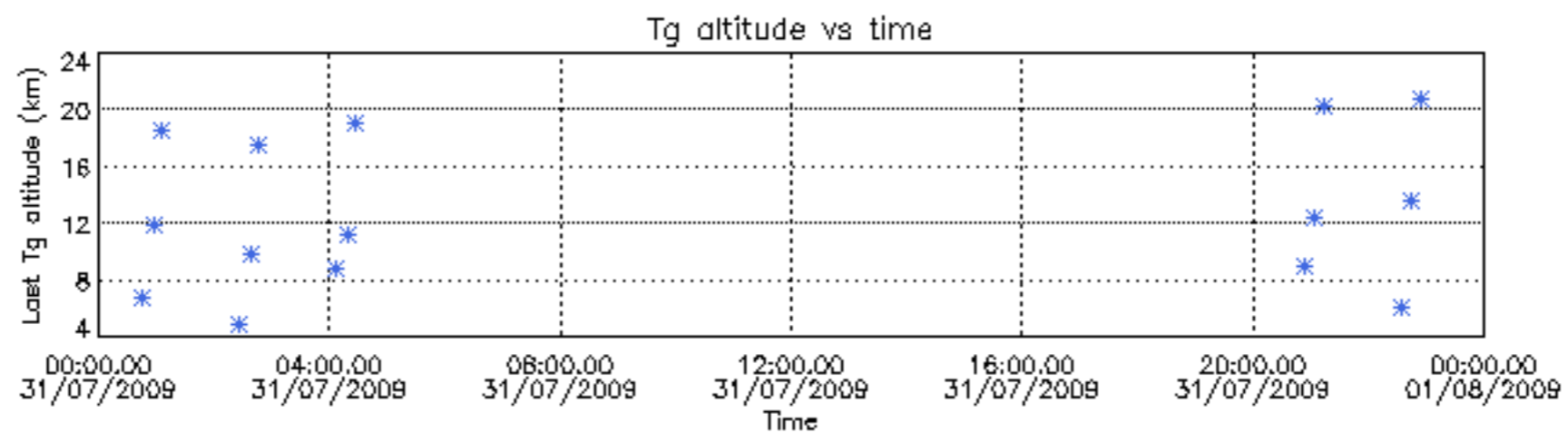
Percentage of star falling outside central band per profile



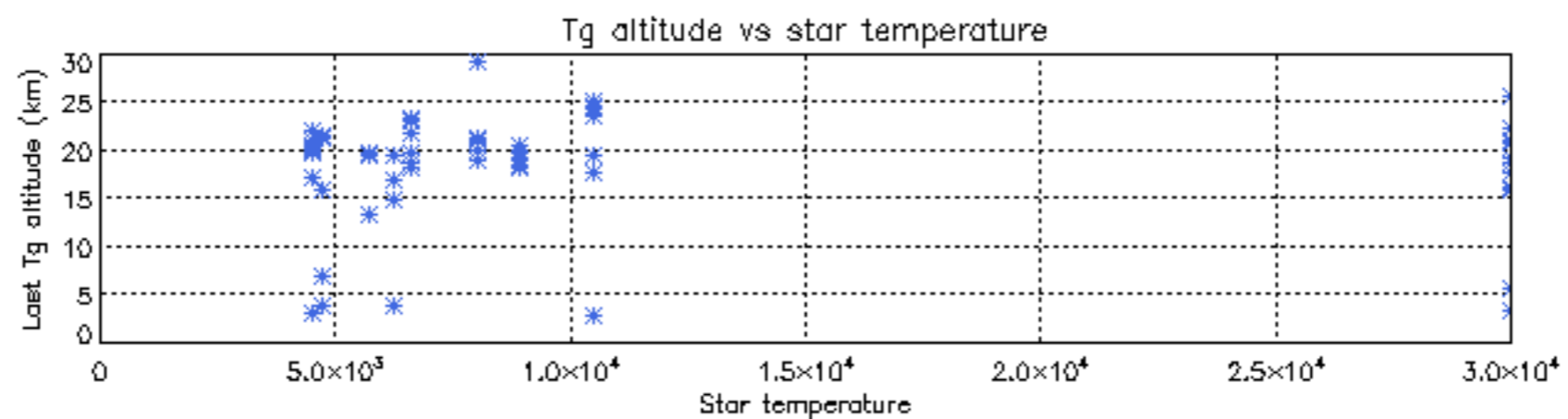
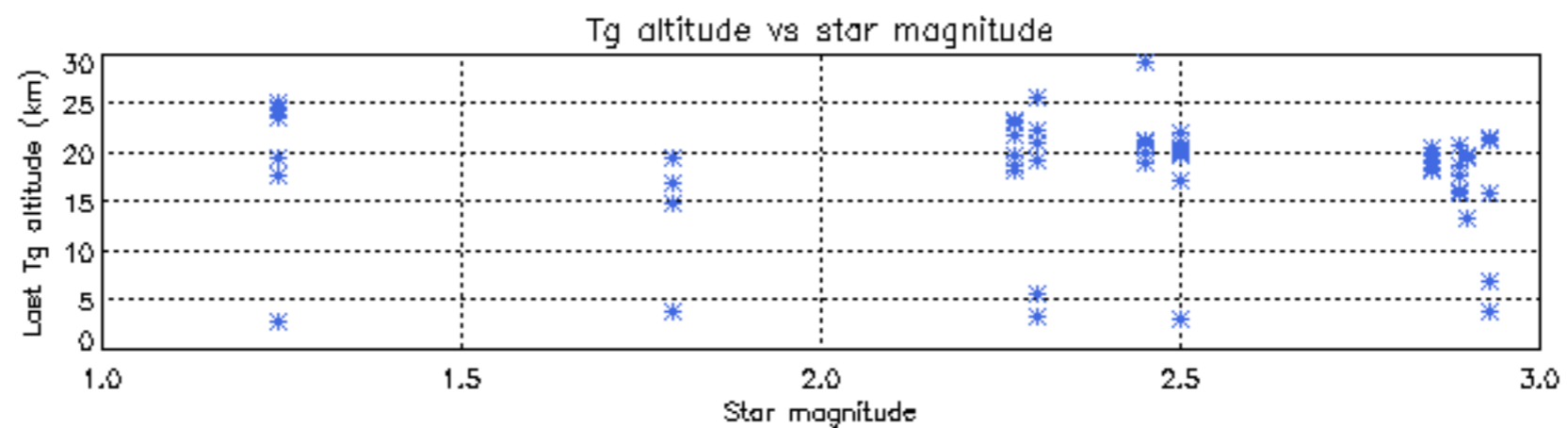
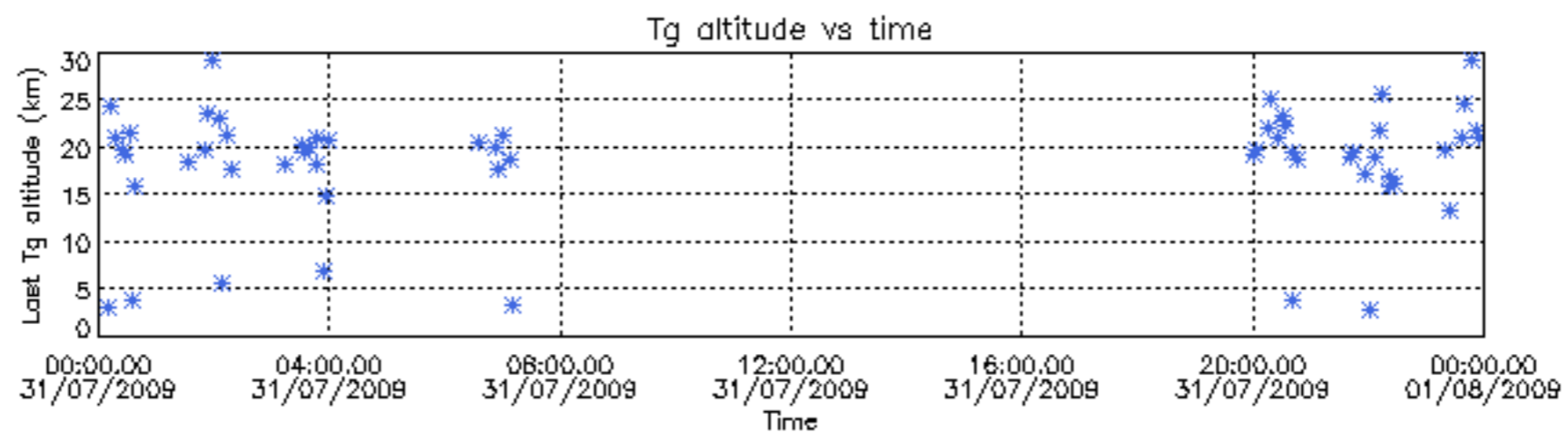
Percentage of saturation errors per profile

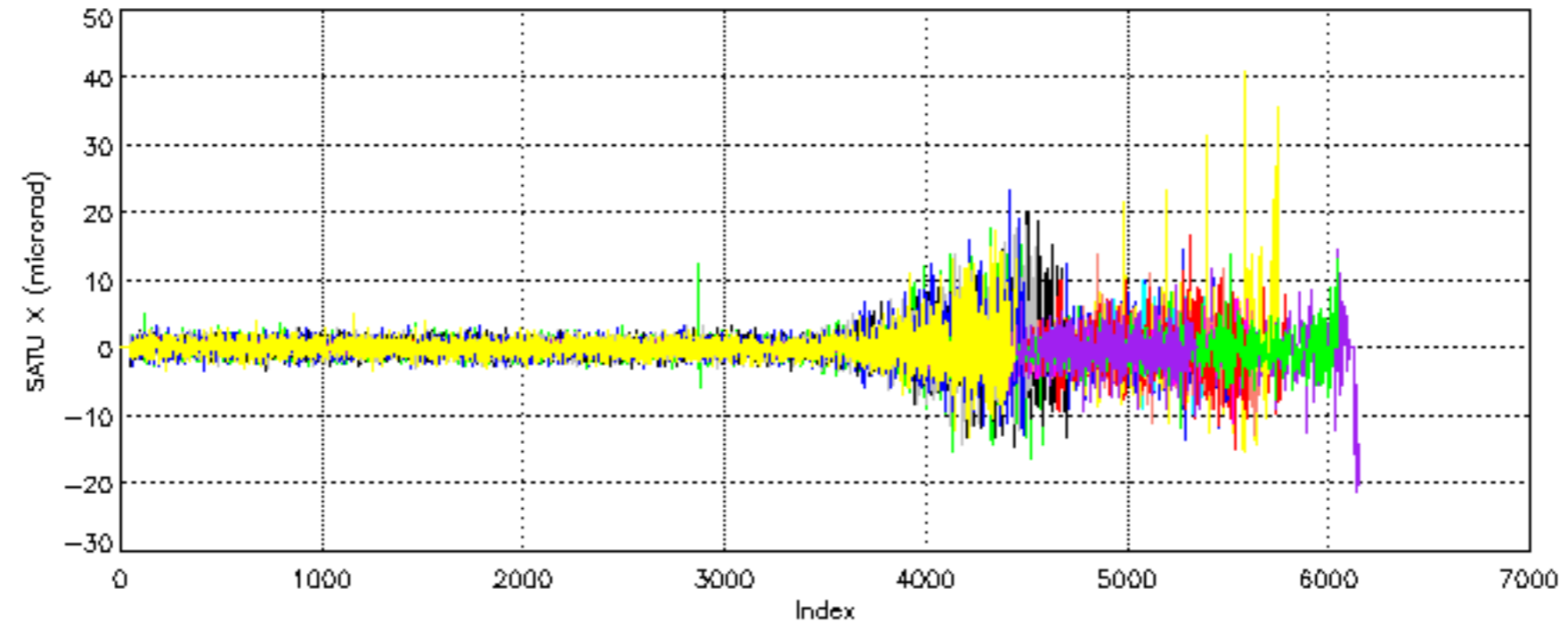


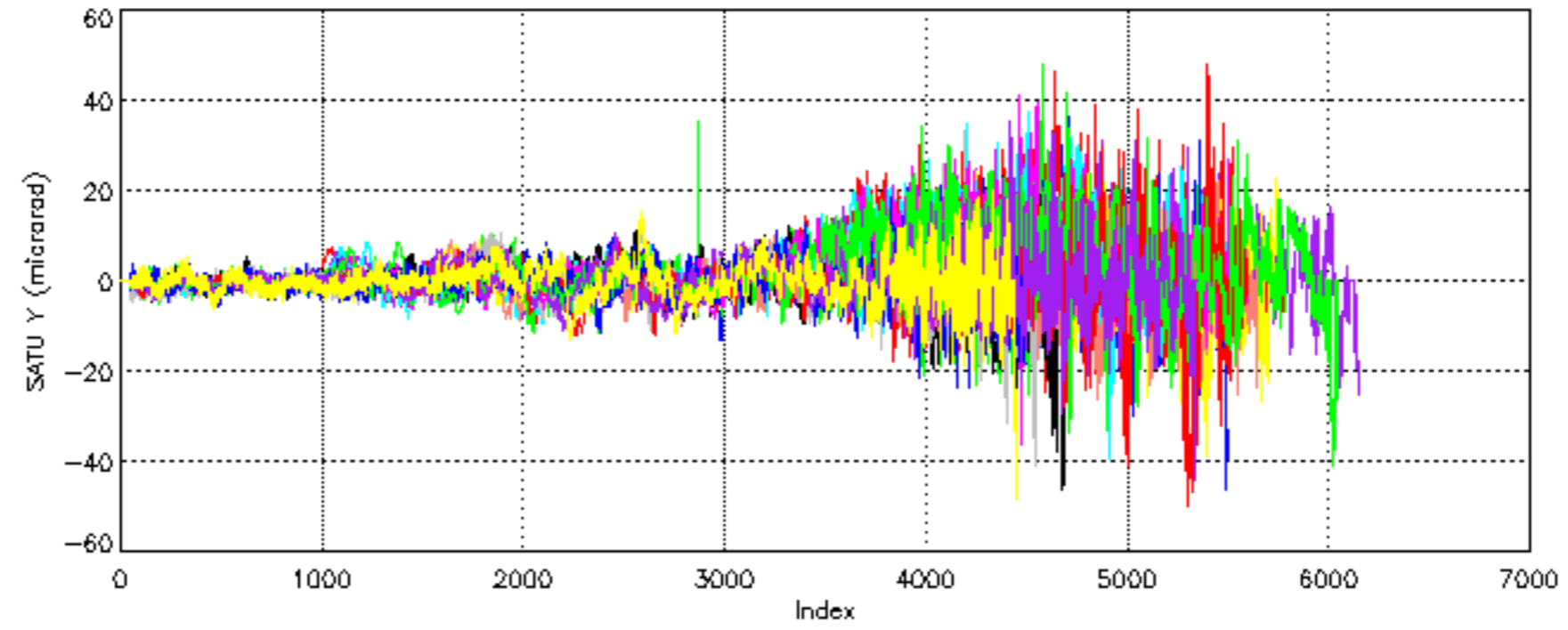
Tangent altitude at which the star is lost

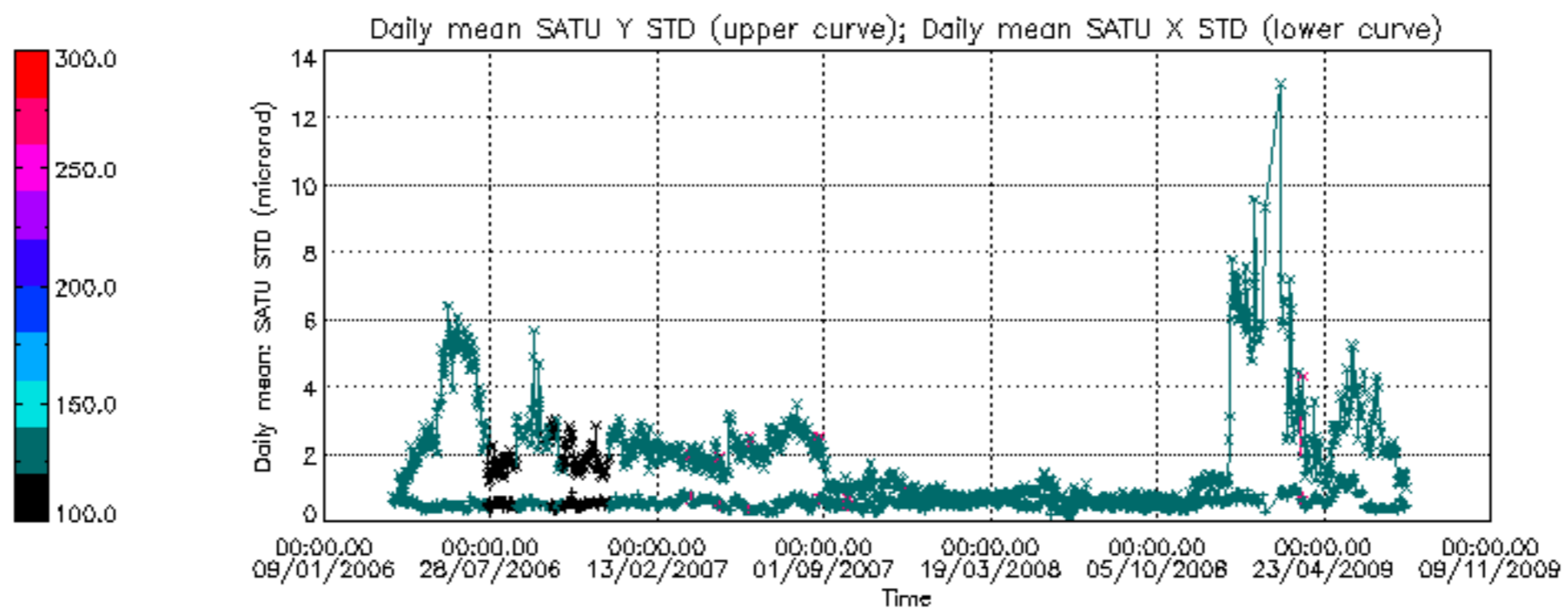


Tangent altitude at which the star is lost









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 3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
 4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
 5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
 6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
 7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
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 9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
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 7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348
 8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
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13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
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 3; 499.5; 01-JUL-2009 22:04:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38360  
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 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361  
 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361  
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3; 2218.5; 02-JUL-2009 20:21:23; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38373
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5; 805.1; 02-JUL-2009 21:38:25; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38374
6; 1486.1; 02-JUL-2009 21:49:46; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38374
7; 2217.8; 02-JUL-2009 22:01:58; Bright; 69.0; 168; 17Zet Aql ; 2.99; 11000;occ; 138; 0;38374
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7; 2210.9; 03-JUL-2009 23:10:50; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38389
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5; 3318.4; 03-JUL-2009 16:46:54; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38385
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4; 2890.0; 03-JUL-2009 18:20:21; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38386
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7; 4263.9; 03-JUL-2009 18:43:15; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38386
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13; 6598.1; 06-JUL-2009 12:45:30; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38425
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 5; 3741.4; 06-JUL-2009 13:38:29; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;38426
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 6; 3851.3; 06-JUL-2009 17:01:31; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38428
 7; 4259.8; 06-JUL-2009 17:08:20; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38428
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 9; 5016.6; 06-JUL-2009 17:20:57; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;38428
10; 5582.0; 06-JUL-2009 17:30:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38428
11; 6220.9; 06-JUL-2009 17:41:01; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38428
12; 6600.8; 06-JUL-2009 17:47:21; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38428
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 3; 2857.3; 06-JUL-2009 18:25:33; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38429
 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
 5; 3739.4; 06-JUL-2009 18:40:15; Bright; 72.0; 74; 11Bet Cas ; 2.27; 6600;occ; 144; 0;38429
 6; 3851.0; 06-JUL-2009 18:42:07; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38429
 7; 4259.8; 06-JUL-2009 18:48:56; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;38429
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 9; 5017.0; 06-JUL-2009 19:01:33; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;38429
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13; 6711.4; 06-JUL-2009 19:29:47; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38429
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4; 677.8; 07-JUL-2009 00:31:37; Dark ; 57.0; 31; Alp Gru ; 1.73; 15200;occ; 114; 0;38433
5; 862.8; 07-JUL-2009 00:34:42; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38433
6; 2192.8; 07-JUL-2009 00:56:52; Bright; 43.0; 168; 17Zet Aql ; 2.99; 11000;occ; 86; 0;38433
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3; 569.6; 07-JUL-2009 02:10:25; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;38434
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5; 863.9; 07-JUL-2009 02:15:19; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38434
6; 2192.5; 07-JUL-2009 02:37:28; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38434
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8; 3286.0; 07-JUL-2009 02:55:41; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38434
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7; 570.4; 07-JUL-2009 03:51:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38435
8; 679.6; 07-JUL-2009 03:52:51; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38435
9; 864.9; 07-JUL-2009 03:55:56; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38435
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9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
10; 865.7; 07-JUL-2009 05:36:33; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38436
11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
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7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
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9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
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 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437  
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13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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 3; 3282.2; 07-JUL-2009 12:59:13; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38440
 4; 3732.9; 07-JUL-2009 13:06:44; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38440
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13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
 5; 3846.8; 07-JUL-2009 14:49:14; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38441
 6; 4258.4; 07-JUL-2009 14:56:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38441
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 8; 4715.8; 07-JUL-2009 15:03:43; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;38441
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13; 6721.3; 07-JUL-2009 15:37:08; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38441
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 3; 3281.0; 07-JUL-2009 16:20:24; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38442
 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
 5; 3846.6; 07-JUL-2009 16:29:49; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38442
 6; 4258.2; 07-JUL-2009 16:36:41; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38442
 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
 8; 4716.1; 07-JUL-2009 16:44:19; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38442
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 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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2; -2192.5; 08-JUL-2009 05:54:34; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38450
3; -1778.5; 08-JUL-2009 06:01:28; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38450
4; -1604.0; 08-JUL-2009 06:04:22; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38450

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7; 209.2; 08-JUL-2009 06:34:35; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38451
8; 585.1; 08-JUL-2009 06:40:51; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;38451
9; 692.6; 08-JUL-2009 06:42:39; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38451
10; 879.4; 08-JUL-2009 06:45:46; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38451
11; 2186.4; 08-JUL-2009 07:07:33; Bright; 40.5; 168; 17Zet Aql ; 2.99; 11000;occ; 81; 0;38451
12; 2842.0; 08-JUL-2009 07:18:28; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38451
13; 3275.2; 08-JUL-2009 07:25:41; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38451
14; 3726.3; 08-JUL-2009 07:33:13; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;38451
15; 3843.1; 08-JUL-2009 07:35:09; Bright; 13.0; 110; 37Del Cas ; 2.68; 8900;occ; 26; 0;38451
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3; 3269.9; 08-JUL-2009 20:50:24; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38459
4; 3721.5; 08-JUL-2009 20:57:55; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38459
5; 3840.0; 08-JUL-2009 20:59:54; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38459
6; 4298.1; 08-JUL-2009 21:07:32; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38459
7; 4432.5; 08-JUL-2009 21:09:46; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38459
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3; 593.2; 08-JUL-2009 21:46:23; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38460
4; 700.0; 08-JUL-2009 21:48:10; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38460
5; 887.6; 08-JUL-2009 21:51:17; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38460
6; 2183.6; 08-JUL-2009 22:12:53; Bright; 42.5; 168; 17Zet Aql ; 2.99; 11000;occ; 85; 0;38460
7; 2835.8; 08-JUL-2009 22:23:45; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38460
8; 3269.3; 08-JUL-2009 22:30:59; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;38460
9; 3720.6; 08-JUL-2009 22:38:30; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38460
10; 3839.5; 08-JUL-2009 22:40:29; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38460
11; 4297.8; 08-JUL-2009 22:48:07; Bright; 35.0; 79; 26Bet Per ; 2.31; 13100;occ; 70; 0;38460
12; 4432.6; 08-JUL-2009 22:50:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38460
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3; 594.3; 08-JUL-2009 23:27:00; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38461
4; 700.8; 08-JUL-2009 23:28:46; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38461
5; 888.4; 08-JUL-2009 23:31:54; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38461
6; 2183.3; 08-JUL-2009 23:53:29; Bright; 42.5; 168; 17Zet Aql ; 2.99; 11000;occ; 85; 0;38461
7; 2835.1; 09-JUL-2009 00:04:21; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38461
8; 3268.9; 09-JUL-2009 00:11:34; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38461
9; 3720.1; 09-JUL-2009 00:19:06; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;38461
10; 3839.1; 09-JUL-2009 00:21:05; Bright; 48.5; 110; 37Del Cas ; 2.68; 8900;occ; 97; 0;38461
11; 4297.9; 09-JUL-2009 00:28:43; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38461
12; 4432.5; 09-JUL-2009 00:30:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38461
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3; -1604.0; 08-JUL-2009 07:44:58; Dark ; 44.0; 173; 4Bet Tri ; 3.00; 8900;occ; 88; 0;38451
4; -1007.0; 08-JUL-2009 07:54:55; Dark ; 41.0; 94; 92Alp Cet ; 2.53; 3100;occ; 82; 0;38451
5; -428.9; 08-JUL-2009 08:04:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38451
6; 210.3; 08-JUL-2009 08:15:12; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;38452
7; 586.1; 08-JUL-2009 08:21:28; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38452
8; 693.5; 08-JUL-2009 08:23:16; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38452
9; 880.5; 08-JUL-2009 08:26:23; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38452
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3; 3274.5; 08-JUL-2009 09:06:17; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38452
4; 3725.7; 08-JUL-2009 09:13:48; Bright; 59.5; 74; 11Bet Cas ; 2.27; 6600;occ; 119; 0;38452
5; 3842.9; 08-JUL-2009 09:15:45; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38452
6; 4256.9; 08-JUL-2009 09:22:39; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38452
7; 4432.1; 08-JUL-2009 09:25:34; Dark ; 44.0; 173; 4Bet Tri ; 3.00; 8900;occ; 88; 0;38452
8; 5029.4; 08-JUL-2009 09:35:32; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;38452
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2; 586.9; 08-JUL-2009 10:02:05; Dark ; 68.0; 63; Bet Gru ; 2.15; 2800;occ; 136; 0;38453  
3; 694.6; 08-JUL-2009 10:03:53; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38453  
4; 881.4; 08-JUL-2009 10:06:59; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38453

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3; 3273.8; 08-JUL-2009 10:46:52; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38453  
4; 3725.1; 08-JUL-2009 10:54:23; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;38453  
5; 3842.3; 08-JUL-2009 10:56:20; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;38453  
6; 4256.8; 08-JUL-2009 11:03:15; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38453  
7; 4432.0; 08-JUL-2009 11:06:10; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;38453  
8; 5030.0; 08-JUL-2009 11:16:08; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38453  
9; 5609.2; 08-JUL-2009 11:25:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38453  
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11; 6623.7; 08-JUL-2009 11:42:42; Dark ; 64.5; 63; Bet Gru ; 2.15; 2800;occ; 129; 0;38453  
12; 6731.3; 08-JUL-2009 11:44:29; Dark ; 56.0; 31; Alp Gru ; 1.73; 15200;occ; 112; 0;38453  
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3; 3724.4; 08-JUL-2009 12:34:58; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;38454  
4; 3841.9; 08-JUL-2009 12:36:56; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38454  
5; 4256.8; 08-JUL-2009 12:43:51; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38454  
6; 4432.1; 08-JUL-2009 12:46:46; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;38454  
7; 5030.5; 08-JUL-2009 12:56:44; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;38454  
8; 5610.3; 08-JUL-2009 13:06:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38454  
9; 6249.4; 08-JUL-2009 13:17:03; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38454  
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11; 6731.9; 08-JUL-2009 13:25:06; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38454  
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3; 3272.7; 08-JUL-2009 14:08:03; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38455  
4; 3723.9; 08-JUL-2009 14:15:34; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38455  
5; 3841.6; 08-JUL-2009 14:17:31; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38455  
6; 4256.7; 08-JUL-2009 14:24:27; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38455  
7; 4432.3; 08-JUL-2009 14:27:22; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38455  
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12; 6732.9; 08-JUL-2009 15:05:43; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38455  
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3; 3272.1; 08-JUL-2009 15:48:38; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38456  
4; 3723.3; 08-JUL-2009 15:56:09; Bright; 60.5; 74; 11Bet Cas ; 2.27; 6600;occ; 121; 0;38456  
5; 3841.2; 08-JUL-2009 15:58:07; Bright; 65.0; 110; 37Del Cas ; 2.68; 8900;occ; 130; 0;38456  
6; 4298.2; 08-JUL-2009 16:05:44; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38456  
7; 4432.4; 08-JUL-2009 16:07:58; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;38456  
8; 5031.9; 08-JUL-2009 16:17:58; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;38456  
9; 5612.7; 08-JUL-2009 16:27:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38456  
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12; 6733.7; 08-JUL-2009 16:46:19; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38456  
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3; 3271.5; 08-JUL-2009 17:29:13; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38457  
4; 3722.8; 08-JUL-2009 17:36:45; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;38457  
5; 3840.9; 08-JUL-2009 17:38:43; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38457  
6; 4298.0; 08-JUL-2009 17:46:20; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38457  
7; 4432.3; 08-JUL-2009 17:48:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38457

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12; 6734.6; 08-JUL-2009 18:26:56; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38457
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5; 3840.4; 08-JUL-2009 19:19:18; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38458
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12; 6735.1; 08-JUL-2009 20:07:33; Dark ; 56.0; 31; Alp Gru ; 1.73; 15200;occ; 112; 0;38458
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9; 4243.2; 14-JUL-2009 11:14:31; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38539  
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13; 6798.6; 14-JUL-2009 13:37:42; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38540  
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3; 2934.4; 14-JUL-2009 14:13:54; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;38541  
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4; 3219.2; 14-JUL-2009 15:59:15; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38542  
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 3; 668.7; 14-JUL-2009 21:59:08; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38546
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 9; 3216.7; 14-JUL-2009 22:41:36; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38546
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 9; 3216.0; 15-JUL-2009 00:22:11; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38547
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13; 4121.8; 15-JUL-2009 00:37:17; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;38547
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 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
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 9; 961.1; 15-JUL-2009 03:05:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38549  
 10; 2109.4; 15-JUL-2009 03:24:57; Bright; 49.5; 11; 53Alp Aql ; 0.76; 8000;occ; 99; 0;38549  
 11; 2782.6; 15-JUL-2009 03:36:10; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38549  
 12; 2927.1; 15-JUL-2009 03:38:34; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38549  
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 4; -1914.3; 15-JUL-2009 03:58:29; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38549  
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 7; -597.5; 15-JUL-2009 04:20:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38549  
 8; 320.8; 15-JUL-2009 04:35:44; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38550  
 9; 672.1; 15-JUL-2009 04:41:35; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38550  
 10; 769.2; 15-JUL-2009 04:43:12; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38550  
 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550  
 12; 2109.0; 15-JUL-2009 05:05:32; Bright; 46.0; 11; 53Alp Aql ; 0.76; 8000;occ; 92; 0;38550  
 13; 2782.0; 15-JUL-2009 05:16:45; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38550  
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 15; 3214.4; 15-JUL-2009 05:23:58; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38550  
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9; 673.0; 15-JUL-2009 06:22:12; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38551
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12; 2108.6; 15-JUL-2009 06:46:08; Bright; 45.0; 11; 53Alp Aql ; 0.76; 8000;occ; 90; 0;38551
13; 2781.3; 15-JUL-2009 06:57:20; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38551
14; 2925.5; 15-JUL-2009 06:59:45; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38551
15; 3213.6; 15-JUL-2009 07:04:33; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38551
16; 3661.2; 15-JUL-2009 07:12:00; Bright; 55.5; 74; 11Bet Cas ; 2.27; 6600;occ; 111; 0;38551
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6; -942.6; 15-JUL-2009 07:35:53; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38551
7; -595.7; 15-JUL-2009 07:41:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38551
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10; 770.6; 15-JUL-2009 08:04:26; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38552
11; 963.1; 15-JUL-2009 08:07:38; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38552
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3; 2924.6; 15-JUL-2009 08:40:20; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38552
4; 3213.1; 15-JUL-2009 08:45:08; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38552
5; 3660.4; 15-JUL-2009 08:52:35; Bright; 56.0; 74; 11Bet Cas ; 2.27; 6600;occ; 112; 0;38552
6; 3802.0; 15-JUL-2009 08:54:57; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38552
7; 4041.0; 15-JUL-2009 08:58:56; Bright; 40.5; 160; 23Gam Per ; 2.93; 4700;occ; 81; 0;38552
8; 4121.2; 15-JUL-2009 09:00:16; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;38552
9; 4297.1; 15-JUL-2009 09:03:12; Bright; 43.0; 79; 26Bet Per ; 2.31; 13100;occ; 86; 0;38552
10; 5094.1; 15-JUL-2009 09:16:29; Dark ; 66.5; 94; 92Alp Cet ; 2.53; 3100;occ; 133; 0;38552
11; 5441.1; 15-JUL-2009 09:22:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38552
12; 6360.4; 15-JUL-2009 09:37:35; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;38552
13; 6710.5; 15-JUL-2009 09:43:26; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38552
14; 6807.3; 15-JUL-2009 09:45:02; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38552
15; 6999.9; 15-JUL-2009 09:48:15; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38552
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3; 2923.7; 15-JUL-2009 10:20:55; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38553
4; 3212.6; 15-JUL-2009 10:25:44; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38553
5; 3659.8; 15-JUL-2009 10:33:11; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38553
6; 3801.5; 15-JUL-2009 10:35:33; Bright; 47.0; 110; 37Del Cas ; 2.68; 8900;occ; 94; 0;38553
7; 4040.7; 15-JUL-2009 10:39:32; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;38553
8; 4121.2; 15-JUL-2009 10:40:52; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;38553
9; 4297.0; 15-JUL-2009 10:43:48; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38553
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13; 6711.2; 15-JUL-2009 11:24:02; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38553
14; 6808.0; 15-JUL-2009 11:25:39; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38553
15; 7000.7; 15-JUL-2009 11:28:52; Dark ; 52.0; 172; Gam Gru ; 3.00; 13100;occ; 104; 0;38553
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3; 2922.8; 15-JUL-2009 12:01:30; Bright; 52.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 105; 0;38554
4; 3211.8; 15-JUL-2009 12:06:19; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38554
5; 3659.0; 15-JUL-2009 12:13:46; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38554
6; 3800.8; 15-JUL-2009 12:16:08; Bright; 44.0; 110; 37Del Cas ; 2.68; 8900;occ; 88; 0;38554
7; 4040.7; 15-JUL-2009 12:20:08; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38554
8; 4121.1; 15-JUL-2009 12:21:28; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38554
9; 4297.0; 15-JUL-2009 12:24:24; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;38554
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12; 6362.5; 15-JUL-2009 12:58:49; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38554
13; 6712.1; 15-JUL-2009 13:04:39; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38554

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3; 2921.9; 15-JUL-2009 13:42:05; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38555
4; 3658.5; 15-JUL-2009 13:54:21; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38555
5; 3800.5; 15-JUL-2009 13:56:43; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;38555
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8; 4297.1; 15-JUL-2009 14:05:00; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;38555
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13; 6809.5; 15-JUL-2009 14:46:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38555
14; 7002.4; 15-JUL-2009 14:50:05; Dark ; 50.5; 172; Gam Gru ; 3.00; 13100;occ; 101; 0;38555
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3; 2777.1; 15-JUL-2009 20:22:04; Bright; 59.0; 144; 18Del Cyg ; 2.86; 11000;occ; 118; 0;38559
4; 2918.6; 15-JUL-2009 20:24:25; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38559
5; 3209.0; 15-JUL-2009 20:29:16; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38559
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7; 2105.0; 15-JUL-2009 21:51:28; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38560
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13; 4039.4; 15-JUL-2009 22:23:42; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;38560
14; 4120.3; 15-JUL-2009 22:25:03; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38560
15; 4296.7; 15-JUL-2009 22:27:59; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38560
16; 4623.9; 15-JUL-2009 22:33:26; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38560
17; 5100.1; 15-JUL-2009 22:41:23; Dark ; 69.0; 94; 92Alp Cet ; 2.53; 3100;occ; 138; 0;38560
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4; -1917.4; 17-JUL-2009 04:35:48; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38578
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3; 704.0; 17-JUL-2009 22:05:29; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;38589
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6; 3757.6; 17-JUL-2009 07:50:59; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38580
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8; 4118.3; 17-JUL-2009 07:56:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38580
9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
10; 4472.6; 17-JUL-2009 08:02:54; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38580
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4; 3196.3; 17-JUL-2009 09:22:13; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38581
5; 3640.2; 17-JUL-2009 09:29:37; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38581
6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
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16; 6828.0; 17-JUL-2009 10:22:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38581
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8; 4118.0; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582
9; 4296.0; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582
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9;-566.7; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582
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 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591  
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591  
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591  
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591  
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6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592  
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13;	5329.9;	21-JUL-2009	11:12:31;	Dark	;	46.5;	165;	34Gam	Eri	;	2.95;	3200;occ;	93;	0;	38639
14;	5528.8;	21-JUL-2009	11:15:50;	Dark	;	59.0;	0;			;	0.00;	0;occ;	118;	0;	38639
15;	6460.6;	21-JUL-2009	11:31:22;	Dark	;	55.0;	84;	Alp	Phe	;	2.40;	4500;occ;	110;	0;	38639
16;	6780.3;	21-JUL-2009	11:36:41;	Dark	;	63.0;	63;	Bet	Gru	;	2.15;	2800;occ;	126;	0;	38639
17;	6867.5;	21-JUL-2009	11:38:08;	Dark	;	47.5;	31;	Alp	Gru	;	1.73;	15200;occ;	95;	0;	38639
18;	7060.4;	21-JUL-2009	11:41:21;	Dark	;	48.0;	172;	Gam	Gru	;	3.00;	13100;occ;	96;	0;	38639
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2;	2740.5;	21-JUL-2009	12:09:57;	Bright;	59.0;	144;	18Del	Cyg	;	2.86;	11000;occ;	118;	0;	38640	
3;	2855.3;	21-JUL-2009	12:11:52;	Bright;	45.5;	19;	50Alp	Cyg	;	1.25;	10500;occ;	91;	0;	38640	
4;	3163.8;	21-JUL-2009	12:17:01;	Bright;	43.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	86;	0;	38640	
5;	3597.3;	21-JUL-2009	12:24:14;	Bright;	49.5;	74;	11Bet	Cas	;	2.27;	6600;occ;	99;	0;	38640	
6;	3693.6;	21-JUL-2009	12:25:50;	Bright;	46.5;	76;	27Gam	Cas	;	2.30;	30000;occ;	93;	0;	38640	
7;	4023.6;	21-JUL-2009	12:31:20;	Bright;	63.0;	160;	23Gam	Per	;	2.93;	4700;occ;	126;	0;	38640	
8;	4110.4;	21-JUL-2009	12:32:47;	Bright;	45.0;	35;	33Alp	Per	;	1.79;	6250;occ;	90;	0;	38640	
9;	4293.0;	21-JUL-2009	12:35:50;	Bright;	53.0;	79;	26Bet	Per	;	2.31;	13100;occ;	106;	0;	38640	
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11;	4644.7;	21-JUL-2009	12:41:42;	Dark	;	48.5;	146;	25Eta	Tau	;	2.87;	15200;occ;	97;	0;	38640
12;	5170.2;	21-JUL-2009	12:50:27;	Dark	;	68.0;	94;	92Alp	Cet	;	2.53;	3100;occ;	136;	0;	38640
13;	5329.8;	21-JUL-2009	12:53:07;	Dark	;	49.5;	165;	34Gam	Eri	;	2.95;	3200;occ;	99;	0;	38640
14;	5529.9;	21-JUL-2009	12:56:27;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	38640
15;	6461.5;	21-JUL-2009	13:11:58;	Dark	;	54.5;	84;	Alp	Phe	;	2.40;	4500;occ;	109;	0;	38640
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18;	7060.9;	21-JUL-2009	13:21:58;	Dark	;	48.0;	172;	Gam	Gru	;	3.00;	13100;occ;	96;	0;	38640
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2;	-497.9;	22-JUL-2009	00:40:46;	Dark	;	59.0;	0;			;	0.00;	0;occ;	118;	0;	38647
3;	433.8;	22-JUL-2009	00:56:18;	Dark	;	54.0;	84;	Alp	Phe	;	2.40;	4500;occ;	108;	0;	38648
4;	750.4;	22-JUL-2009	01:01:34;	Dark	;	65.5;	63;	Bet	Gru	;	2.15;	2800;occ;	131;	0;	38648
5;	836.6;	22-JUL-2009	01:03:01;	Dark	;	46.5;	31;	Alp	Gru	;	1.73;	15200;occ;	93;	0;	38648
6;	1029.7;	22-JUL-2009	01:06:14;	Dark	;	49.0;	172;	Gam	Gru	;	3.00;	13100;occ;	98;	0;	38648
7;	2080.0;	22-JUL-2009	01:23:44;	Bright;		44.0;	11;	53Alp	Aql	;	0.76;	8000;occ;	88;	0;	38648
8;	2737.5;	22-JUL-2009	01:34:42;	Bright;		39.5;	144;	18Del	Cyg	;	2.86;	11000;occ;	79;	0;	38648
9;	2849.8;	22-JUL-2009	01:36:34;	Bright;		48.5;	19;	50Alp	Cyg	;	1.25;	10500;occ;	97;	0;	38648
10;	3159.9;	22-JUL-2009	01:41:44;	Bright;		40.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	80;	0;	38648
11;	3591.5;	22-JUL-2009	01:48:56;	Bright;		49.5;	74;	11Bet	Cas	;	2.27;	6600;occ;	99;	0;	38648
12;	3688.9;	22-JUL-2009	01:50:33;	Bright;		47.0;	76;	27Gam	Cas	;	2.30;	30000;occ;	94;	0;	38648
13;	4021.9;	22-JUL-2009	01:56:06;	Bright;		45.0;	160;	23Gam	Per	;	2.93;	4700;occ;	90;	0;	38648
14;	4109.3;	22-JUL-2009	01:57:33;	Bright;		49.5;	35;	33Alp	Per	;	1.79;	6250;occ;	99;	0;	38648
15;	4292.6;	22-JUL-2009	02:00:37;	Bright;		52.0;	79;	26Bet	Per	;	2.31;	13100;occ;	104;	0;	38648
16;	4481.9;	22-JUL-2009	02:03:46;	Dark	;	46.5;	150;	44Zet	Per	;	2.89;	28000;occ;	93;	0;	38648
17;	4647.1;	22-JUL-2009	02:06:31;	Dark	;	49.5;	146;	25Eta	Tau	;	2.87;	15200;occ;	99;	0;	38648
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2;	-700.6;	22-JUL-2009	02:17:59;	Dark	;	49.5;	165;	34Gam	Eri	;	2.95;	3200;occ;	99;	0;	38648
3;	-496.7;	22-JUL-2009	02:21:23;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	38648
4;	435.0;	22-JUL-2009	02:36:55;	Dark	;	53.5;	84;	Alp	Phe	;	2.40;	4500;occ;	107;	0;	38649
5;	751.2;	22-JUL-2009	02:42:11;	Dark	;	56.0;	63;	Bet	Gru	;	2.15;	2800;occ;	112;	0;	38649
6;	837.1;	22-JUL-2009	02:43:37;	Dark	;	46.5;	31;	Alp	Gru	;	1.73;	15200;occ;	93;	0;	38649
7;	1030.3;	22-JUL-2009	02:46:50;	Dark	;	48.5;	172;	Gam	Gru	;	3.00;	13100;occ;	97;	0;	38649
8;	2079.9;	22-JUL-2009	03:04:20;	Bright;		40.5;	11;	53Alp	Aql	;	0.76;	8000;occ;	81;	0;	38649
9;	2737.1;	22-JUL-2009	03:15:17;	Bright;		39.0;	144;	18Del	Cyg	;	2.86;	11000;occ;	78;	0;	38649
10;	2849.2;	22-JUL-2009	03:17:09;	Bright;		46.0;	19;	50Alp	Cyg	;	1.25;	10500;occ;	92;	0;	38649
11;	3159.3;	22-JUL-2009	03:22:19;	Bright;		41.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	82;	0;	38649
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3;	-2014.3;	22-JUL-2009	03:36:42;	Bright;		42.5;	160;	23Gam	Per	;	2.93;	4700;occ;	85;	0;	38649
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7;	-1388.4;	22-JUL-2009	03:47:07;	Dark	;	48.0;	146;	25Eta	Tau	;	2.87;	15200;occ;	96;	0;	38649
8;	-856.3;	22-JUL-2009	03:56:00;	Dark	;	65.0;	94;	92Alp	Cet	;	2.53;	3100;occ;	130;	0;	38649
9;	-699.4;	22-JUL-2009	03:58:36;	Dark	;	48.5;	165;	34Gam	Eri	;	2.95;	3200;occ;	97;	0;	38649
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11;	436.2;	22-JUL-2009	04:17:32;	Dark	;	55.5;	84;	Alp	Phe	;	2.40;	4500;occ;	111;	0;	38650
12;	752.0;	22-JUL-2009	04:22:48;	Dark	;	53.0;	63;	Bet	Gru	;	2.15;	2800;occ;	106;	0;	38650
13;	838.0;	22-JUL-2009	04:24:14;	Dark	;	47.5;	31;	Alp	Gru	;	1.73;	15200;occ;	95;	0;	38650
14;	1030.9;	22-JUL-2009	04:27:27;	Dark	;	49.0;	172;	Gam	Gru	;	3.00;	13100;occ;	98;	0;	38650
15;	2079.7;	22-JUL-2009	04:44:56;	Bright;		44.0;	11;	53Alp	Aql	;	0.76;	8000;occ;	88;	0;	38650
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3;	-1927.0;	22-JUL-2009	05:18:45;	Bright;		45.5;	35;	33Alp	Per	;	1.79;	6250;occ;	91;	0;	38650
4;	-1743.7;	22-JUL-2009	05:21:48;	Bright;		53.0;	79;	26Bet	Per	;	2.31;	13100;occ;	106;	0;	38650
5;	-1553.9;	22-JUL-2009	05:24:58;	Dark	;	46.5;	150;	44Zet	Per	;	2.89;	28000;occ;	93;	0;	38650
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7;	-855.4;	22-JUL-2009	05:36:37;	Dark	;	65.0;	94;	92Alp	Cet	;	2.53;	3100;occ;	130;	0;	38650
8;	-699.4;	22-JUL-2009	05:39:12;	Dark	;	46.0;	165;	34Gam	Eri	;	2.95;	3200;occ;	92;	0;	38650
9;	-494.3;	22-JUL-2009	05:42:38;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	38650
10;	437.3;	22-JUL-2009	05:58:09;	Dark	;	60.0;	84;	Alp	Phe	;	2.40;	4500;occ;	120;	0;	38651
11;	752.8;	22-JUL-2009	06:03:25;	Dark	;	51.0;	63;	Bet	Gru	;	2.15;	2800;occ;	102;	0;	38651
12;	838.7;	22-JUL-2009	06:04:51;	Dark	;	45.0;	31;	Alp	Gru	;	1.73;	15200;occ;	90;	0;	38651
13;	1031.5;	22-JUL-2009	06:08:03;	Dark	;	48.0;	172;	Gam	Gru	;	3.00;	13100;occ;	96;	0;	38651
14;	2079.3;	22-JUL-2009	06:25:31;	Bright;		43.5;	11;	53Alp	Aql	;	0.76;	8000;occ;	87;	0;	38651
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16;	2847.8;	22-JUL-2009	06:38:20;	Bright;		46.5;	19;	50Alp	Cyg	;	1.25;	10500;occ;	93;	0;	38651
17;	3158.3;	22-JUL-2009	06:43:30;	Bright;		42.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	84;	0;	38651

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6; 3582.1; 22-JUL-2009 21:55:57; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38660
7; 3749.1; 22-JUL-2009 21:58:44; Bright; 69.0; 110; 37Del Cas ; 2.68; 8900;occ; 138; 0;38660
8; 4019.0; 22-JUL-2009 22:03:14; Bright; 43.0; 160; 23Gam Per ; 2.93; 4700;occ; 86; 0;38660
9; 4107.2; 22-JUL-2009 22:04:42; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38660
10; 4291.3; 22-JUL-2009 22:07:47; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;38660
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13; 5190.9; 22-JUL-2009 22:22:46; Dark ; 24.5; 94; 92Alp Cet ; 2.53; 3100;occ; 49; 0;38660
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5; 759.9; 22-JUL-2009 22:49:31; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38661
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9; 2732.3; 22-JUL-2009 23:22:23; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38661
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13; 3748.4; 22-JUL-2009 23:39:19; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;38661
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4; -1743.5; 22-JUL-2009 07:02:24; Bright; 51.0; 79; 26Bet Per ; 2.31; 13100;occ; 102; 0;38651
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16; 2838.0; 23-JUL-2009 06:06:33; Bright; 46.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 92; 0;38665
17; 3150.8; 23-JUL-2009 06:11:46; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38665
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4; 2832.1; 23-JUL-2009 21:11:50; Bright; 66.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 132; 0;38674
5; 3146.1; 23-JUL-2009 21:17:04; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38674
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7; 3672.9; 23-JUL-2009 21:25:51; Bright; 51.0; 76; 27Gam Cas ; 2.30; 30000;occ; 102; 0;38674
8; 4015.2; 23-JUL-2009 21:31:33; Bright; 59.0; 160; 23Gam Per ; 2.93; 4700;occ; 118; 0;38674
9; 4104.7; 23-JUL-2009 21:33:03; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38674
10; 4290.2; 23-JUL-2009 21:36:08; Bright; 51.0; 79; 26Bet Per ; 2.31; 13100;occ; 102; 0;38674
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12; 4654.4; 23-JUL-2009 21:42:13; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38674
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6; 1046.0; 23-JUL-2009 22:22:40; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38675
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8; 2727.2; 23-JUL-2009 22:50:41; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79; 0;38675
9; 2831.4; 23-JUL-2009 22:52:25; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38675
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11; 3570.7; 23-JUL-2009 23:04:45; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38675
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14; 4104.5; 23-JUL-2009 23:13:39; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38675
15; 4290.1; 23-JUL-2009 23:16:44; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38675
16; 4485.2; 23-JUL-2009 23:19:59; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38675
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4; 465.8; 23-JUL-2009 23:53:36; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38676
5; 854.1; 24-JUL-2009 00:00:04; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38676
6; 1046.6; 24-JUL-2009 00:03:17; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38676
7; 2074.0; 24-JUL-2009 00:20:24; Bright; 40.5; 11; 53Alp Aql ; 0.76; 8000;occ; 81; 0;38676
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11; 3569.9; 24-JUL-2009 00:45:20; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38676
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13; 4014.7; 24-JUL-2009 00:52:45; Bright; 57.5; 160; 23Gam Per ; 2.93; 4700;occ; 115; 0;38676
14; 4104.3; 24-JUL-2009 00:54:14; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38676
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3;-2018.4; 23-JUL-2009 06:26:12; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;38665  
4;-1929.7; 23-JUL-2009 06:27:41; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38665  
5;-1744.9; 23-JUL-2009 06:30:46; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38665  
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7;-1384.2; 23-JUL-2009 06:36:47; Dark ; 46.5; 146; 25Eta Tau ; 2.87; 15200;occ; 93; 0;38665  
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4; 3150.3; 23-JUL-2009 07:52:21; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38666  
5; 3577.6; 23-JUL-2009 07:59:28; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38666  
6; 3678.0; 23-JUL-2009 08:01:09; Bright; 51.0; 76; 27Gam Cas ; 2.30; 30000;occ; 102; 0;38666  
7; 4017.2; 23-JUL-2009 08:06:48; Bright; 64.0; 160; 23Gam Per ; 2.93; 4700;occ; 128; 0;38666  
8; 4106.1; 23-JUL-2009 08:08:17; Bright; 43.5; 35; 33Alp Per ; 1.79; 6250;occ; 87; 0;38666  
9; 4290.9; 23-JUL-2009 08:11:22; Bright; 70.0; 79; 26Bet Per ; 2.31; 13100;occ; 140; 0;38666  
10; 4484.2; 23-JUL-2009 08:14:35; Dark ; 47.5; 150; 44Zet Per ; 2.89; 28000;occ; 95; 0;38666  
11; 4652.1; 23-JUL-2009 08:17:23; Dark ; 48.0; 146; 25Eta Tau ; 2.87; 15200;occ; 96; 0;38666  
12; 5347.0; 23-JUL-2009 08:28:58; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38666  
13; 5964.9; 23-JUL-2009 08:39:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38666  
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4; 3149.6; 23-JUL-2009 09:32:56; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38667  
5; 3576.9; 23-JUL-2009 09:40:04; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38667  
6; 3677.5; 23-JUL-2009 09:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38667  
7; 4017.1; 23-JUL-2009 09:47:24; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38667  
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11; 4652.4; 23-JUL-2009 09:57:59; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38667  
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4; 3149.0; 23-JUL-2009 11:13:31; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38668  
5; 3576.1; 23-JUL-2009 11:20:39; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38668  
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12; 5348.2; 23-JUL-2009 11:50:11; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;38668  
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4; 3148.1; 23-JUL-2009 14:34:42; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38670
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5; 3147.1; 23-JUL-2009 17:55:53; Bright; 62.0; 89; 5Alp Cep ; 2.45; 8000;occ; 124; 0;38672
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 3; 2826.9; 24-JUL-2009 10:36:32; Bright; 46.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 93; 0;38682
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 3; 2825.6; 24-JUL-2009 13:57:43; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38684
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 5; 3666.8; 24-JUL-2009 14:11:44; Bright; 51.5; 76; 27Gam Cas ; 2.30; 30000;occ; 103; 0;38684
 6; 4012.6; 24-JUL-2009 14:17:30; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38684

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13; 5582.4; 24-JUL-2009 14:43:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38684  
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6; 3561.5; 24-JUL-2009 19:11:47; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;38687  
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17; 4659.6; 25-JUL-2009 02:12:28; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38691  
18; 4754.9; 25-JUL-2009 02:14:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;38691

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4; 483.9; 25-JUL-2009 02:43:29; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38692  
5; 863.9; 25-JUL-2009 02:49:49; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38692  
6; 1056.2; 25-JUL-2009 02:53:01; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38692  
7; 2071.2; 25-JUL-2009 03:09:56; Bright; 42.5; 11; 53Alp Aql ; 0.76; 8000;occ; 85; 0;38692  
8; 2642.2; 25-JUL-2009 03:19:27; Bright; 47.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 95; 0;38692  
9; 2820.6; 25-JUL-2009 03:22:25; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;38692  
10; 3137.2; 25-JUL-2009 03:27:42; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38692  
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3; -2025.6; 25-JUL-2009 03:42:15; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38692  
4; -1934.5; 25-JUL-2009 03:43:46; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38692  
5; -1747.5; 25-JUL-2009 03:46:53; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38692  
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7; -1376.1; 25-JUL-2009 03:53:05; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38692  
8; -1280.9; 25-JUL-2009 03:54:40; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38692  
9; -670.6; 25-JUL-2009 04:04:50; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38692  
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12; 484.9; 25-JUL-2009 04:24:06; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38693  
13; 864.4; 25-JUL-2009 04:30:25; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38693  
14; 1056.7; 25-JUL-2009 04:33:37; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38693  
15; 2070.9; 25-JUL-2009 04:50:32; Bright; 40.5; 11; 53Alp Aql ; 0.76; 8000;occ; 81; 0;38693  
16; 2641.4; 25-JUL-2009 05:00:02; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38693  
17; 2820.1; 25-JUL-2009 05:03:01; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38693  
18; 3136.6; 25-JUL-2009 05:08:17; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38693  
19; 3556.8; 25-JUL-2009 05:15:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38693

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3; -1934.8; 25-JUL-2009 05:24:22; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38693  
4; -1747.4; 25-JUL-2009 05:27:29; Bright; 51.5; 79; 26Bet Per ; 2.31; 13100;occ; 103; 0;38693  
5; -1548.2; 25-JUL-2009 05:30:49; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38693  
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12; 865.1; 25-JUL-2009 06:11:02; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38694  
13; 1057.3; 25-JUL-2009 06:14:14; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38694  
14; 2070.9; 25-JUL-2009 06:31:08; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38694  
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16; 2819.3; 25-JUL-2009 06:43:36; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38694

17; 3136.1; 25-JUL-2009 06:48:53; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38694  
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4; 2814.4; 25-JUL-2009 20:08:19; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38702  
5; 3131.8; 25-JUL-2009 20:13:36; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38702  
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8; 4007.6; 25-JUL-2009 20:28:12; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38702  
9; 4099.4; 25-JUL-2009 20:29:44; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38702  
10; 4287.5; 25-JUL-2009 20:32:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38702  
11; 4489.2; 25-JUL-2009 20:36:13; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38702  
12; 4663.1; 25-JUL-2009 20:39:07; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38702  
13; 4758.1; 25-JUL-2009 20:40:42; Dark ; 43.5; 13; 87Alp Tau ; 0.87; 3800;occ; 87; 0;38702  
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5; 870.6; 25-JUL-2009 21:16:31; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38703  
6; 1062.3; 25-JUL-2009 21:19:43; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38703  
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9; 2813.7; 25-JUL-2009 21:48:54; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38703  
10; 3131.4; 25-JUL-2009 21:54:12; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38703  
11; 3549.0; 25-JUL-2009 22:01:09; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38703  
12; 3654.9; 25-JUL-2009 22:02:55; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38703  
13; 4007.3; 25-JUL-2009 22:08:47; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38703  
14; 4099.2; 25-JUL-2009 22:10:19; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38703  
15; 4287.2; 25-JUL-2009 22:13:27; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38703  
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17; 4663.3; 25-JUL-2009 22:19:43; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38703  
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5; 871.0; 25-JUL-2009 22:57:07; Dark ; 53.0; 31; Alp Gru ; 1.73; 15200;occ; 106; 0;38704  
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5; -1548.2; 25-JUL-2009 07:11:25; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38694  
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8; -669.3; 25-JUL-2009 07:26:03; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38694  
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2; 2638.4; 25-JUL-2009 11:42:23; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;38697
3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
4; 3134.4; 25-JUL-2009 11:50:39; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38697
5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
6; 3658.7; 25-JUL-2009 11:59:23; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38697
7; 4009.0; 25-JUL-2009 12:05:13; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38697
8; 4100.5; 25-JUL-2009 12:06:45; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38697
9; 4288.0; 25-JUL-2009 12:09:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38697
10; 4488.2; 25-JUL-2009 12:13:13; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38697
11; 4661.3; 25-JUL-2009 12:16:06; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38697
12; 4756.7; 25-JUL-2009 12:17:41; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38697
13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
14; 5599.1; 25-JUL-2009 12:31:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38697
15; 5927.7; 25-JUL-2009 12:37:12; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38697
16; 6526.5; 25-JUL-2009 12:47:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38697
17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
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2; 2637.7; 25-JUL-2009 13:22:58; Bright; 49.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 99; 0;38698
3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698
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 9; 4488.6; 25-JUL-2009 13:53:49; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38698  
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 12; 5369.8; 25-JUL-2009 14:08:30; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38698  
 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698  
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698  
 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698  
 16; 6904.1; 25-JUL-2009 14:34:04; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38698  
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 3; 2816.3; 25-JUL-2009 15:06:33; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38699  
 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699  
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699  
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699  
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699  
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699  
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699  
 10; 4488.8; 25-JUL-2009 15:34:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38699  
 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699  
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699  
 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699  
 14; 5601.8; 25-JUL-2009 15:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38699  
 15; 5929.6; 25-JUL-2009 15:58:26; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38699  
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 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699  
 18; 7096.8; 25-JUL-2009 16:17:53; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38699

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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700  
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700  
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700  
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700  
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700  
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 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700  
 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700  
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700  
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700  
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700  
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700  
 15; 5930.5; 25-JUL-2009 17:39:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38700  
 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38700  
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 3; 2635.6; 25-JUL-2009 18:24:44; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38701  
 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701  
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701  
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701  
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701  
 8; 4007.9; 25-JUL-2009 18:47:36; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38701  
 9; 4099.5; 25-JUL-2009 18:49:08; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38701  
 10; 4287.7; 25-JUL-2009 18:52:16; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38701  
 11; 4489.0; 25-JUL-2009 18:55:37; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38701  
 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701  
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 14; 5372.1; 25-JUL-2009 19:10:20; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38701  
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 17; 6531.2; 25-JUL-2009 19:29:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38701  
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4; 498.5; 26-JUL-2009 00:31:30; Dark ; 62.5; 84; Alp Phe ; 2.40; 4500;occ; 125; 0;38705
5; 871.6; 26-JUL-2009 00:37:44; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38705
6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
7; 2068.9; 26-JUL-2009 00:57:41; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38705
8; 2632.5; 26-JUL-2009 01:07:04; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38705
9; 2812.5; 26-JUL-2009 01:10:04; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38705
10; 3130.4; 26-JUL-2009 01:15:22; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38705
11; 3547.3; 26-JUL-2009 01:22:19; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38705
12; 3653.6; 26-JUL-2009 01:24:06; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38705
13; 4006.8; 26-JUL-2009 01:29:59; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38705
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16; 4489.5; 26-JUL-2009 01:38:01; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38705
17; 4664.0; 26-JUL-2009 01:40:56; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38705
18; 4759.1; 26-JUL-2009 01:42:31; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38705
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3; -101.3; 26-JUL-2009 02:02:06; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38705
4; 499.6; 26-JUL-2009 02:12:07; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38706
5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
10; 3130.0; 26-JUL-2009 02:55:58; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38706
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13; 872.9; 26-JUL-2009 03:58:57; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38707
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12; 873.4; 26-JUL-2009 05:39:33; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38708
13; 1065.1; 26-JUL-2009 05:42:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38708
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16; 2810.8; 26-JUL-2009 06:11:51; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38708
17; 3129.1; 26-JUL-2009 06:17:09; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38708

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4; 3121.9; 27-JUL-2009 07:26:01; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38723
5; 3533.5; 27-JUL-2009 07:32:52; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38723
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13; 5389.0; 27-JUL-2009 08:03:48; Dark ; 52.5; 165; 34Gam Eri ; 2.95; 3200;occ; 105; 0;38723
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4; 3121.4; 27-JUL-2009 09:06:36; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38724
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3; 2800.4; 27-JUL-2009 12:22:27; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38726
4; 3120.4; 27-JUL-2009 12:27:47; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38726
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7;	3629.7;	28-JUL-2009	15:25:51;	Bright;	72.0;	76;	27Gam Cas	; 2.30;	30000;occ;	144;	0;	38742
8;	3995.8;	28-JUL-2009	15:31:57;	Bright;	46.5;	160;	23Gam Per	; 2.93;	4700;occ;	93;	0;	38742
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 16; 6609.7; 30-JUL-2009 18:33:29; Dark ; 60.5; 84; Alp Phe ; 2.40; 4500;occ; 121; 0;38772  
 17; 6946.0; 30-JUL-2009 18:39:05; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38772

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090730\_183925\_000060602081\_00142\_38773\_4612.N1

1; 929.5; 30-JUL-2009 18:39:25; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 39;38773  
 2; 1099.5; 30-JUL-2009 18:42:15; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;38773  
 3; 1568.6; 30-JUL-2009 18:50:04; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;38773  
 4; 2589.4; 30-JUL-2009 19:07:05; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38773  
 5; 2775.1; 30-JUL-2009 19:10:10; Bright; 62.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 124; 0;38773  
 6; 3099.0; 30-JUL-2009 19:15:34; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38773  
 7; 3493.6; 30-JUL-2009 19:22:09; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38773  
 8; 3609.0; 30-JUL-2009 19:24:04; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38773  
 9; 3985.7; 30-JUL-2009 19:30:21; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38773  
 10; 4083.4; 30-JUL-2009 19:31:59; Bright; 49.5; 35; 33Alp Per ; 1.79; 6250;occ; 99; 0;38773  
 11; 4316.3; 30-JUL-2009 19:35:52; Bright; 46.5; 149; 45Eps Per ; 2.89; 30000;occ; 93; 0;38773  
 12; 4499.1; 30-JUL-2009 19:38:54; Dark ; 55.0; 150; 44Zet Per ; 2.89; 28000;occ; 110; 0;38773  
 13; 4783.0; 30-JUL-2009 19:43:38; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;38773  
 14; 5272.5; 30-JUL-2009 19:51:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38773  
 15; 5431.2; 30-JUL-2009 19:54:27; Dark ; 56.0; 165; 34Gam Eri ; 2.95; 3200;occ; 112; 0;38773  
 16; 5996.0; 30-JUL-2009 20:03:51; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38773  
 17; 6610.8; 30-JUL-2009 20:14:06; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38773  
 18; 6946.5; 30-JUL-2009 20:19:42; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;38773

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090731\_005617\_000047332081\_00145\_38776\_8261.N1

1; -601.9; 31-JUL-2009 00:56:17; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38776



2; -37.2; 31-JUL-2009 01:05:42; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;38776  
3; 578.0; 31-JUL-2009 01:15:57; Dark ; 66.5; 84; Alp Phe ; 2.40; 4500;occ; 133; 0;38777  
4; 912.1; 31-JUL-2009 01:21:31; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38777  
5; 1101.4; 31-JUL-2009 01:24:40; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;38777  
6; 1568.9; 31-JUL-2009 01:32:28; Bright; 54.5; 142; 49Del Cap ; 2.85; 8900;occ; 109; 0;38777  
7; 2587.2; 31-JUL-2009 01:49:26; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;38777  
8; 2773.1; 31-JUL-2009 01:52:32; Bright; 40.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 81; 0;38777  
9; 3097.2; 31-JUL-2009 01:57:56; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;38777  
10; 3490.4; 31-JUL-2009 02:04:29; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38777  
11; 3606.2; 31-JUL-2009 02:06:25; Bright; 66.5; 76; 27Gam Cas ; 2.30; 30000;occ; 133; 0;38777  
12; 3984.3; 31-JUL-2009 02:12:43; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38777  
13; 4082.4; 31-JUL-2009 02:14:21; Bright; 49.5; 35; 33Alp Per ; 1.79; 6250;occ; 99; 0;38777

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090731\_021435\_000055842081\_00146\_38777\_8262.N1  
1;-1940.0; 31-JUL-2009 02:14:35; Bright; 50.0; 35; 33Alp Per ; 1.79; 6250;occ; 100; 27;38777  
2;-1719.8; 31-JUL-2009 02:18:15; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95; 0;38777  
3;-1536.2; 31-JUL-2009 02:21:19; Dark ; 53.5; 150; 44Zet Per ; 2.89; 28000;occ; 107; 0;38777  
4;-1251.4; 31-JUL-2009 02:26:03; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;38777  
5; -759.7; 31-JUL-2009 02:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38777  
6; -601.0; 31-JUL-2009 02:36:54; Dark ; 57.5; 165; 34Gam Eri ; 2.95; 3200;occ; 115; 0;38777  
7; -36.3; 31-JUL-2009 02:46:19; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;38777  
8; 579.2; 31-JUL-2009 02:56:34; Dark ; 65.5; 84; Alp Phe ; 2.40; 4500;occ; 131; 0;38778  
9; 912.7; 31-JUL-2009 03:02:08; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38778  
10; 1101.8; 31-JUL-2009 03:05:17; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;38778  
11; 1569.1; 31-JUL-2009 03:13:04; Bright; 54.5; 142; 49Del Cap ; 2.85; 8900;occ; 109; 0;38778  
12; 2586.6; 31-JUL-2009 03:30:01; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38778  
13; 2772.8; 31-JUL-2009 03:33:08; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38778  
14; 3096.8; 31-JUL-2009 03:38:32; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38778  
15; 3489.7; 31-JUL-2009 03:45:04; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38778  
16; 3605.5; 31-JUL-2009 03:47:00; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;38778

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090731\_034708\_000024332081\_00147\_38778\_8263.N1  
1;-2423.0; 31-JUL-2009 03:47:08; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 15;38778  
2;-2052.1; 31-JUL-2009 03:53:19; Bright; 63.0; 160; 23Gam Per ; 2.93; 4700;occ; 126; 0;38778  
3;-1953.8; 31-JUL-2009 03:54:57; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38778  
4;-1719.8; 31-JUL-2009 03:58:51; Bright; 45.5; 149; 45Eps Per ; 2.89; 30000;occ; 91; 0;38778  
5;-1536.3; 31-JUL-2009 04:01:54; Dark ; 52.0; 150; 44Zet Per ; 2.89; 28000;occ; 104; 0;38778  
6;-1251.2; 31-JUL-2009 04:06:40; Dark ; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;38778  
7; -758.7; 31-JUL-2009 04:14:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38778  
8; -600.1; 31-JUL-2009 04:17:31; Dark ; 56.5; 165; 34Gam Eri ; 2.95; 3200;occ; 113; 0;38778  
9; -35.2; 31-JUL-2009 04:26:56; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38778

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090731\_061748\_000030942081\_00149\_38780\_8264.N1  
1; 581.2; 31-JUL-2009 06:17:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38780  
2; 913.9; 31-JUL-2009 06:23:21; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38780  
3; 1102.7; 31-JUL-2009 06:26:30; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;38780  
4; 1569.2; 31-JUL-2009 06:34:16; Bright; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;38780  
5; 1826.3; 31-JUL-2009 06:38:33; Bright; 28.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 56; 0;38780  
6; 2585.6; 31-JUL-2009 06:51:12; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38780  
7; 2771.8; 31-JUL-2009 06:54:19; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38780  
8; 3095.8; 31-JUL-2009 06:59:43; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38780  
9; 3487.8; 31-JUL-2009 07:06:15; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38780  
10; 3604.3; 31-JUL-2009 07:08:11; Bright; 71.5; 76; 27Gam Cas ; 2.30; 30000;occ; 143; 0;38780

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090731\_195121\_000037372081\_00157\_38788\_8265.N1  
1; 1106.6; 31-JUL-2009 19:51:21; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38788  
2; 1570.0; 31-JUL-2009 19:59:04; Bright; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;38788  
3; 1824.5; 31-JUL-2009 20:03:19; Bright; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;38788  
4; 2581.1; 31-JUL-2009 20:15:55; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;38788  
5; 2767.6; 31-JUL-2009 20:19:02; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;38788  
6; 3092.4; 31-JUL-2009 20:24:27; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38788  
7; 3481.2; 31-JUL-2009 20:30:56; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38788  
8; 3598.7; 31-JUL-2009 20:32:53; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38788  
9; 3980.2; 31-JUL-2009 20:39:15; Bright; 69.0; 160; 23Gam Per ; 2.93; 4700;occ; 138; 0;38788  
10; 4079.4; 31-JUL-2009 20:40:54; Bright; 48.0; 35; 33Alp Per ; 1.79; 6250;occ; 96; 0;38788  
11; 4315.6; 31-JUL-2009 20:44:50; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95; 0;38788  
12; 4500.9; 31-JUL-2009 20:47:55; Dark ; 52.0; 150; 44Zet Per ; 2.89; 28000;occ; 104; 0;38788  
13; 4788.5; 31-JUL-2009 20:52:43; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;38788

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090731\_210101\_000060942081\_00157\_38788\_8266.N1  
1; -749.0; 31-JUL-2009 21:01:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38788  
2; -590.8; 31-JUL-2009 21:03:39; Dark ; 56.0; 165; 34Gam Eri ; 2.95; 3200;occ; 112; 0;38788  
3; -25.9; 31-JUL-2009 21:13:04; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38788

4;	590.9;	31-JUL-2009	21:23:21;	Dark ;	53.5;	84;	Alp Phe ;	2.40;	4500;occ;	107;	0;	38789
5;	918.5;	31-JUL-2009	21:28:49;	Dark ;	43.5;	31;	Alp Gru ;	1.73;	15200;occ;	87;	0;	38789
6;	1107.0;	31-JUL-2009	21:31:57;	Dark ;	44.5;	172;	Gam Gru ;	3.00;	13100;occ;	89;	0;	38789
7;	1570.1;	31-JUL-2009	21:39:40;	Bright;	53.0;	142;	49Del Cap ;	2.85;	8900;occ;	106;	0;	38789
8;	1824.3;	31-JUL-2009	21:43:55;	Bright;	53.0;	154;	22Bet Aqr ;	2.90;	5700;occ;	106;	0;	38789
9;	2580.5;	31-JUL-2009	21:56:31;	Bright;	46.5;	92;	53Eps Cyg ;	2.50;	4500;occ;	93;	0;	38789
10;	2767.2;	31-JUL-2009	21:59:37;	Bright;	61.0;	19;	50Alp Cyg ;	1.25;	10500;occ;	122;	0;	38789
11;	3091.7;	31-JUL-2009	22:05:02;	Bright;	42.0;	89;	5Alp Cep ;	2.45;	8000;occ;	84;	0;	38789
12;	3480.5;	31-JUL-2009	22:11:31;	Bright;	50.0;	74;	11Bet Cas ;	2.27;	6600;occ;	100;	0;	38789
13;	3597.9;	31-JUL-2009	22:13:28;	Bright;	46.0;	76;	27Gam Cas ;	2.30;	30000;occ;	92;	0;	38789
14;	3979.8;	31-JUL-2009	22:19:50;	Bright;	51.5;	160;	23Gam Per ;	2.93;	4700;occ;	103;	0;	38789
15;	4078.9;	31-JUL-2009	22:21:29;	Bright;	50.5;	35;	33Alp Per ;	1.79;	6250;occ;	101;	0;	38789
16;	4315.6;	31-JUL-2009	22:25:26;	Bright;	49.5;	149;	45Eps Per ;	2.89;	30000;occ;	99;	0;	38789
17;	4501.0;	31-JUL-2009	22:28:31;	Dark ;	54.0;	150;	44Zet Per ;	2.89;	28000;occ;	108;	0;	38789
18;	4788.8;	31-JUL-2009	22:33:19;	Dark ;	60.5;	13;	87Alp Tau ;	0.87;	3800;occ;	121;	0;	38789
19;	5287.8;	31-JUL-2009	22:41:38;	Dark ;	58.0;	0;	;	0.00;	0;occ;	116;	0;	38789

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090731\_224142\_000060922081\_00158\_38789\_8267.N1

1;	-744.0;	31-JUL-2009	22:41:42;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	8;	38789
2;	-589.9;	31-JUL-2009	22:44:16;	Dark ;	53.5;	165;	34Gam Eri ;	2.95;	3200;occ;	107;	0;	38789
3;	-24.8;	31-JUL-2009	22:53:41;	Dark ;	44.5;	157;	The1Eri ;	2.91;	9300;occ;	89;	0;	38789
4;	592.0;	31-JUL-2009	23:03:58;	Dark ;	53.0;	84;	Alp Phe ;	2.40;	4500;occ;	106;	0;	38790
5;	918.8;	31-JUL-2009	23:09:25;	Dark ;	49.0;	31;	Alp Gru ;	1.73;	15200;occ;	98;	0;	38790
6;	1107.6;	31-JUL-2009	23:12:34;	Dark ;	45.5;	172;	Gam Gru ;	3.00;	13100;occ;	91;	0;	38790
7;	1570.0;	31-JUL-2009	23:20:16;	Bright;	52.5;	142;	49Del Cap ;	2.85;	8900;occ;	105;	0;	38790
8;	1824.2;	31-JUL-2009	23:24:30;	Bright;	59.0;	154;	22Bet Aqr ;	2.90;	5700;occ;	118;	0;	38790
9;	2580.0;	31-JUL-2009	23:37:06;	Bright;	43.5;	92;	53Eps Cyg ;	2.50;	4500;occ;	87;	0;	38790
10;	2766.8;	31-JUL-2009	23:40:13;	Bright;	39.5;	19;	50Alp Cyg ;	1.25;	10500;occ;	79;	0;	38790
11;	3091.3;	31-JUL-2009	23:45:37;	Bright;	36.5;	89;	5Alp Cep ;	2.45;	8000;occ;	73;	0;	38790
12;	3479.7;	31-JUL-2009	23:52:06;	Bright;	50.0;	74;	11Bet Cas ;	2.27;	6600;occ;	100;	0;	38790
13;	3597.2;	31-JUL-2009	23:54:03;	Bright;	49.0;	76;	27Gam Cas ;	2.30;	30000;occ;	98;	0;	38790
14;	3979.4;	01-AUG-2009	00:00:25;	Bright;	47.5;	160;	23Gam Per ;	2.93;	4700;occ;	95;	0;	38790
15;	4078.8;	01-AUG-2009	00:02:05;	Bright;	50.5;	35;	33Alp Per ;	1.79;	6250;occ;	101;	0;	38790
16;	4315.6;	01-AUG-2009	00:06:02;	Bright;	52.0;	149;	45Eps Per ;	2.89;	30000;occ;	104;	0;	38790
17;	4501.3;	01-AUG-2009	00:09:07;	Dark ;	52.0;	150;	44Zet Per ;	2.89;	28000;occ;	104;	0;	38790
18;	4789.2;	01-AUG-2009	00:13:55;	Dark ;	63.0;	13;	87Alp Tau ;	0.87;	3800;occ;	126;	0;	38790
19;	5288.8;	01-AUG-2009	00:22:15;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	38790

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090731\_070916\_000039892081\_00149\_38780\_4613.N1

1;	-2366.7;	31-JUL-2009	07:09:16;	Bright;	72.0;	76;	27Gam Cas ;	2.30;	30000;occ;	144;	130;	38780
2;	-2052.8;	31-JUL-2009	07:14:30;	Bright;	69.0;	160;	23Gam Per ;	2.93;	4700;occ;	138;	0;	38780
3;	-1954.2;	31-JUL-2009	07:16:09;	Bright;	51.0;	35;	33Alp Per ;	1.79;	6250;occ;	102;	0;	38780
4;	-1719.8;	31-JUL-2009	07:20:03;	Bright;	45.0;	149;	45Eps Per ;	2.89;	30000;occ;	90;	0;	38780
5;	-1536.0;	31-JUL-2009	07:23:07;	Dark ;	52.5;	150;	44Zet Per ;	2.89;	28000;occ;	105;	0;	38780
6;	-1250.4;	31-JUL-2009	07:27:52;	Dark ;	46.5;	13;	87Alp Tau ;	0.87;	3800;occ;	93;	0;	38780
7;	-756.7;	31-JUL-2009	07:36:06;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	38780
8;	-598.3;	31-JUL-2009	07:38:44;	Dark ;	52.5;	165;	34Gam Eri ;	2.95;	3200;occ;	105;	0;	38780
9;	-33.5;	31-JUL-2009	07:48:09;	Dark ;	47.0;	157;	The1Eri ;	2.91;	9300;occ;	94;	0;	38780
10;	582.4;	31-JUL-2009	07:58:25;	Dark ;	57.0;	84;	Alp Phe ;	2.40;	4500;occ;	114;	0;	38781
11;	914.2;	31-JUL-2009	08:03:57;	Dark ;	46.0;	31;	Alp Gru ;	1.73;	15200;occ;	92;	0;	38781
12;	1103.3;	31-JUL-2009	08:07:06;	Dark ;	45.0;	172;	Gam Gru ;	3.00;	13100;occ;	90;	0;	38781
13;	1569.4;	31-JUL-2009	08:14:52;	Bright;	53.0;	142;	49Del Cap ;	2.85;	8900;occ;	106;	0;	38781

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090731\_081909\_000058292081\_00150\_38781\_4614.N1

1;	1826.1;	31-JUL-2009	08:19:09;	Bright;	28.0;	154;	22Bet Aqr ;	2.90;	5700;occ;	56;	0;	38781
2;	2585.1;	31-JUL-2009	08:31:48;	Bright;	44.5;	92;	53Eps Cyg ;	2.50;	4500;occ;	89;	0;	38781
3;	2771.2;	31-JUL-2009	08:34:54;	Bright;	61.0;	19;	50Alp Cyg ;	1.25;	10500;occ;	122;	0;	38781
4;	3095.3;	31-JUL-2009	08:40:18;	Bright;	40.0;	89;	5Alp Cep ;	2.45;	8000;occ;	80;	0;	38781
5;	3487.2;	31-JUL-2009	08:46:50;	Bright;	50.5;	74;	11Bet Cas ;	2.27;	6600;occ;	101;	0;	38781
6;	3603.6;	31-JUL-2009	08:48:46;	Bright;	72.0;	76;	27Gam Cas ;	2.30;	30000;occ;	144;	0;	38781
7;	3982.8;	31-JUL-2009	08:55:06;	Bright;	69.0;	160;	23Gam Per ;	2.93;	4700;occ;	138;	0;	38781
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