

# GOMOS Daily Report 25-AUG-2009

## Level 0 and Level 1 products

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

Item	Value
Time of report generation	28AUG2009 04:50:55
Data source version	GOMOS/5.00
Start time of products	25AUG2009 00:01:44
Stop time of products	25AUG2009 23:50:59
Store outputs in DB	Yes
Nb of level 1b prods	116
Nb of prods with errors	2

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

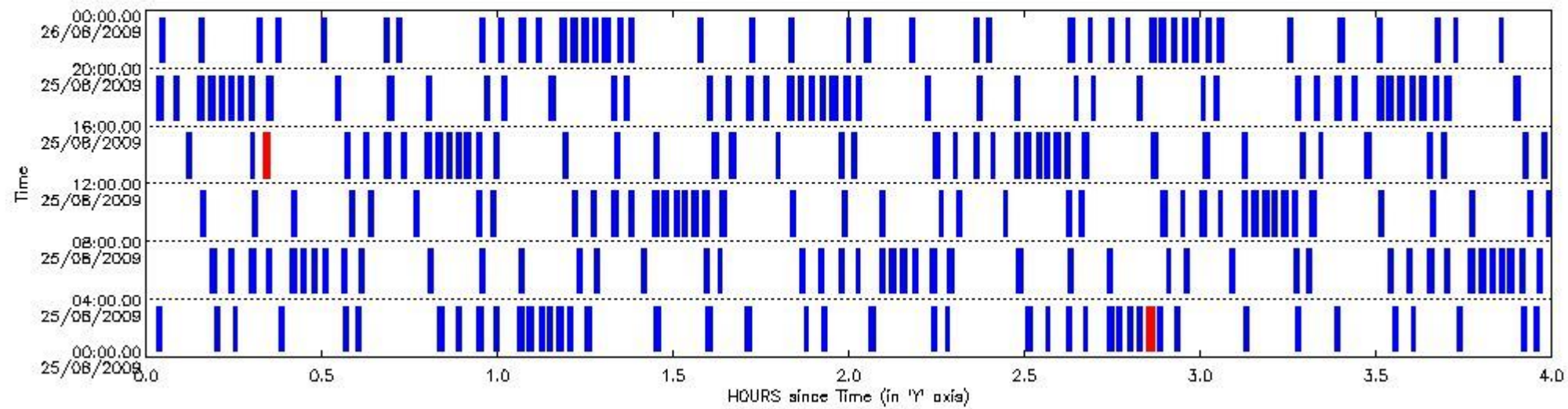
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
25-AUG-2009 02:50:40	67BetEri	128	39135
25-AUG-2009 12:19:55	27GamCas	76	39141

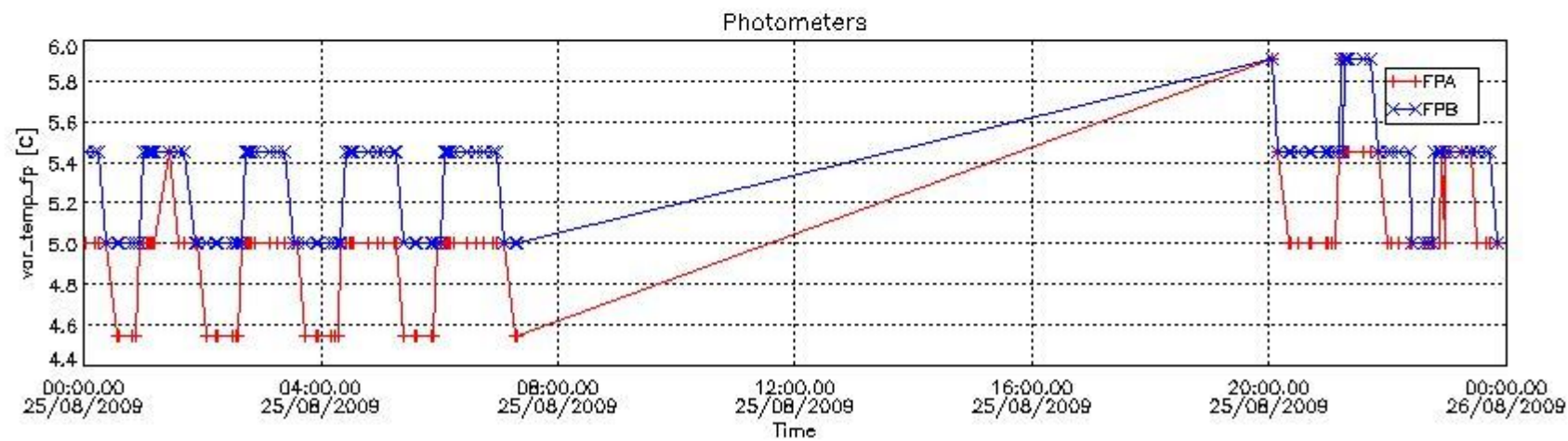
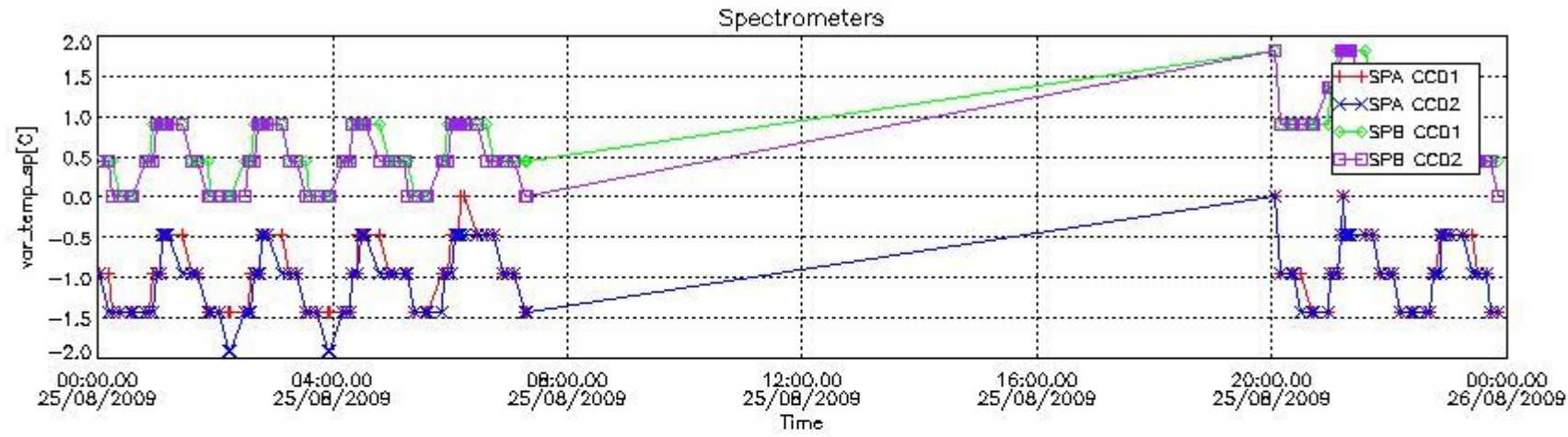
### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090825_000144_000000492082_00002_39134_6139.N1	25-AUG-2009 00:01:44	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	39134	No
2	GOM_TRA_1PNPDE20090825_001146_000000412082_00002_39134_6140.N1	25-AUG-2009 00:11:46	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	39134	No
3	GOM_TRA_1PNPDE20090825_001450_000000422082_00002_39134_6141.N1	25-AUG-2009 00:14:50	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	39134	No
4	GOM_TRA_1PNPDE20090825_002246_000000462082_00002_39134_6142.N1	25-AUG-2009 00:22:46	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39134	No
5	GOM_TRA_1PNPDE20090825_003336_000000462082_00002_39134_6143.N1	25-AUG-2009 00:33:36	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	39134	No
6	GOM_TRA_1PNPDE20090825_003549_000000482082_00002_39134_6144.N1	25-AUG-2009 00:35:49	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	39134	No
7	GOM_TRA_1PNPDE20090825_004942_000000602082_00002_39134_6145.N1	25-AUG-2009 00:49:42	Bright	59.500	6	13Alp Aur	0.080000	3400.0	119	39134	No
8	GOM_TRA_1PNPDE20090825_005300_000000462082_00002_39134_6146.N1	25-AUG-2009 00:53:00	Bright	45.500	107	37The Aur	2.6490	11000.	91	39134	No
9	GOM_TRA_1PNPDE20090825_005625_000000592082_00002_39134_6147.N1	25-AUG-2009 00:56:25	Twilight_and_stray	59.000	28	12Bet Tau	1.6500	15200.	118	39134	No



69	GOM_TRA_1PNPDE20090825_063729_000000522082_00006_39138_6898.N1	25-AUG-2009 06:37:29	Straylight	51.500	84	Alp Phe	2.3970	4500.0	103	39138	No
70	GOM_TRA_1PNPDE20090825_064409_000000472082_00006_39138_6899.N1	25-AUG-2009 06:44:09	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	39138	No
71	GOM_TRA_1PNPDE20090825_065410_000000422082_00006_39138_6900.N1	25-AUG-2009 06:54:10	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	39138	No
72	GOM_TRA_1PNPDE20090825_065713_000000572082_00006_39138_6901.N1	25-AUG-2009 06:57:13	Bright	57.000	61	8Eps Peg	2.1000	3900.0	114	39138	No
73	GOM_TRA_1PNPDE20090825_070507_000000462082_00006_39138_6902.N1	25-AUG-2009 07:05:07	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39138	No
74	GOM_TRA_1PNPDE20090825_071557_000000462082_00006_39138_6903.N1	25-AUG-2009 07:15:57	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	39138	No
75	GOM_TRA_1PNPDE20090825_071810_000000442082_00006_39138_6904.N1	25-AUG-2009 07:18:10	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39138	No
76	GOM_TRA_1PNPDE20090825_200222_000000472082_00014_39146_7366.N1	25-AUG-2009 20:02:22	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39146	Yes
77	GOM_TRA_1PNPDE20090825_200859_000000482082_00014_39146_7367.N1	25-AUG-2009 20:08:59	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	39146	No
78	GOM_TRA_1PNPDE20090825_201857_000000532082_00014_39146_7368.N1	25-AUG-2009 20:18:57	Bright	53.000	162	34Alp Aqr	2.9440	5350.0	106	39146	No
79	GOM_TRA_1PNPDE20090825_202159_000000572082_00014_39146_7369.N1	25-AUG-2009 20:21:59	Bright	57.000	61	8Eps Peg	2.1000	3900.0	114	39146	No
80	GOM_TRA_1PNPDE20090825_202948_000000462082_00014_39146_7370.N1	25-AUG-2009 20:29:48	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39146	No
81	GOM_TRA_1PNPDE20090825_204039_000000462082_00014_39146_7371.N1	25-AUG-2009 20:40:39	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	39146	No
82	GOM_TRA_1PNPDE20090825_204251_000000472082_00014_39146_7372.N1	25-AUG-2009 20:42:51	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	39146	No
83	GOM_TRA_1PNPDE20090825_205651_000000562082_00014_39146_7373.N1	25-AUG-2009 20:56:51	Bright	56.000	6	13Alp Aur	0.080000	3400.0	112	39146	No
84	GOM_TRA_1PNPDE20090825_210012_000000452082_00014_39146_7374.N1	25-AUG-2009 21:00:12	Bright	45.000	107	37The Aur	2.6490	11000.	90	39146	No
85	GOM_TRA_1PNPDE20090825_210339_000000602082_00014_39146_7375.N1	25-AUG-2009 21:03:39	Tw_i_and_stray	59.500	28	12Bet Tau	1.6500	15200.	119	39146	No
86	GOM_TRA_1PNPDE20090825_210637_000000442082_00014_39146_7376.N1	25-AUG-2009 21:06:37	Tw_i_and_stray	44.000	44	24Gam Gem	1.9280	11000.	88	39146	No
87	GOM_TRA_1PNPDE20090825_211041_000000602082_00014_39146_7377.N1	25-AUG-2009 21:10:41	Dark	60.000	14	58Alp Ori	0.87000	3000.0	120	39146	No
88	GOM_TRA_1PNPDE20090825_211226_000000642082_00014_39146_7521.N1	25-AUG-2009 21:12:26	Dark	63.500	27	24Gam Ori	1.6360	26000.	127	39146	Yes
89	GOM_TRA_1PNPDE20090825_211423_000000592082_00014_39146_7522.N1	25-AUG-2009 21:14:23	Dark	58.500	30	46Eps Ori	1.6940	30000.	117	39146	No
90	GOM_TRA_1PNPDE20090825_211620_000000502082_00014_39146_7523.N1	25-AUG-2009 21:16:20	Dark	50.000	56	53Kap Ori	2.0650	30000.	100	39146	No
91	GOM_TRA_1PNPDE20090825_211756_000000762082_00014_39146_7524.N1	25-AUG-2009 21:17:56	Dark	75.500	7	19Bet Ori	0.10000	14000.	151	39146	No
92	GOM_TRA_1PNPDE20090825_212025_000000522082_00014_39146_7525.N1	25-AUG-2009 21:20:25	Dark	51.500	139	9Bet Lep	2.8330	5600.0	103	39146	No
93	GOM_TRA_1PNPDE20090825_213412_000000532082_00015_39147_7526.N1	25-AUG-2009 21:34:12	Dark	53.000	157	The1Eri	2.9060	9300.0	106	39147	No
94	GOM_TRA_1PNPDE20090825_214259_000000562082_00015_39147_7527.N1	25-AUG-2009 21:42:59	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	39147	No
95	GOM_TRA_1PNPDE20090825_214936_000000492082_00015_39147_7528.N1	25-AUG-2009 21:49:36	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	39147	No
96	GOM_TRA_1PNPDE20090825_215932_000000412082_00015_39147_7529.N1	25-AUG-2009 21:59:32	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	39147	No
97	GOM_TRA_1PNPDE20090825_220235_000000572082_00015_39147_7530.N1	25-AUG-2009 22:02:35	Bright	57.000	61	8Eps Peg	2.1000	3900.0	114	39147	No
98	GOM_TRA_1PNPDE20090825_221024_000000462082_00015_39147_7531.N1	25-AUG-2009 22:10:24	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39147	No
99	GOM_TRA_1PNPDE20090825_222114_000000482082_00015_39147_7532.N1	25-AUG-2009 22:21:14	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	39147	No
100	GOM_TRA_1PNPDE20090825_222326_000000462082_00015_39147_7533.N1	25-AUG-2009 22:23:26	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39147	No
101	GOM_TRA_1PNPDE20090825_223727_000000572082_00015_39147_7534.N1	25-AUG-2009 22:37:27	Bright	56.500	6	13Alp Aur	0.080000	3400.0	113	39147	No
102	GOM_TRA_1PNPDE20090825_224047_000000422082_00015_39147_7535.N1	25-AUG-2009 22:40:47	Bright	41.500	107	37The Aur	2.6490	11000.	83	39147	No
103	GOM_TRA_1PNPDE20090825_224415_000000582082_00015_39147_7536.N1	25-AUG-2009 22:44:15	Tw_i_and_stray	57.500	28	12Bet Tau	1.6500	15200.	115	39147	No
104	GOM_TRA_1PNPDE20090825_224713_000000462082_00015_39147_7537.N1	25-AUG-2009 22:47:13	Tw_i_and_stray	45.500	44	24Gam Gem	1.9280	11000.	91	39147	No
105	GOM_TRA_1PNPDE20090825_225117_000000602082_00015_39147_7538.N1	25-AUG-2009 22:51:17	Dark	60.000	14	58Alp Ori	0.87000	3000.0	120	39147	No
106	GOM_TRA_1PNPDE20090825_225302_000000612082_00015_39147_7539.N1	25-AUG-2009 22:53:02	Dark	61.000	27	24Gam Ori	1.6360	26000.	122	39147	No
107	GOM_TRA_1PNPDE20090825_225500_000000602082_00015_39147_7540.N1	25-AUG-2009 22:55:00	Dark	59.500	30	46Eps Ori	1.6940	30000.	119	39147	No
108	GOM_TRA_1PNPDE20090825_225657_000000522082_00015_39147_7685.N1	25-AUG-2009 22:56:57	Dark	51.500	56	53Kap Ori	2.0650	30000.	103	39147	No
109	GOM_TRA_1PNPDE20090825_225833_000000682082_00015_39147_7686.N1	25-AUG-2009 22:58:33	Dark	67.500	7	19Bet Ori	0.10000	14000.	135	39147	No
110	GOM_TRA_1PNPDE20090825_230101_000000522082_00015_39147_7687.N1	25-AUG-2009 23:01:01	Dark	51.500	139	9Bet Lep	2.8330	5600.0	103	39147	No
111	GOM_TRA_1PNPDE20090825_231449_000000532082_00016_39148_7688.N1	25-AUG-2009 23:14:49	Dark	52.500	157	The1Eri	2.9060	9300.0	105	39148	No
112	GOM_TRA_1PNPDE20090825_232335_000000512082_00016_39148_7689.N1	25-AUG-2009 23:23:35	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	39148	No
113	GOM_TRA_1PNPDE20090825_233012_000000482082_00016_39148_7690.N1	25-AUG-2009 23:30:12	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	39148	No
114	GOM_TRA_1PNPDE20090825_234008_000000422082_00016_39148_7691.N1	25-AUG-2009 23:40:08	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	39148	No
115	GOM_TRA_1PNPDE20090825_234311_000000412082_00016_39148_7692.N1	25-AUG-2009 23:43:11	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	39148	No
116	GOM_TRA_1PNPDE20090825_235059_000000452082_00016_39148_7693.N1	25-AUG-2009 23:50:59	Bright	44.500	164	44Eta Peg	2.9480	5400.0	89	39148	No

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



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

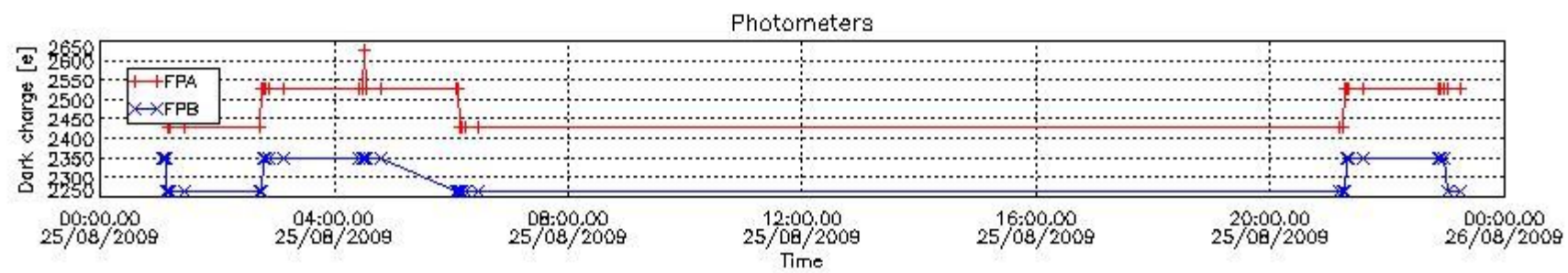
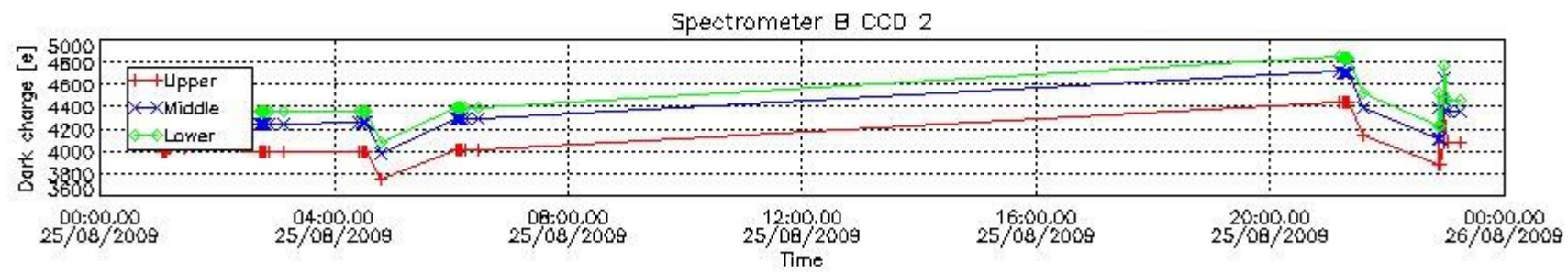
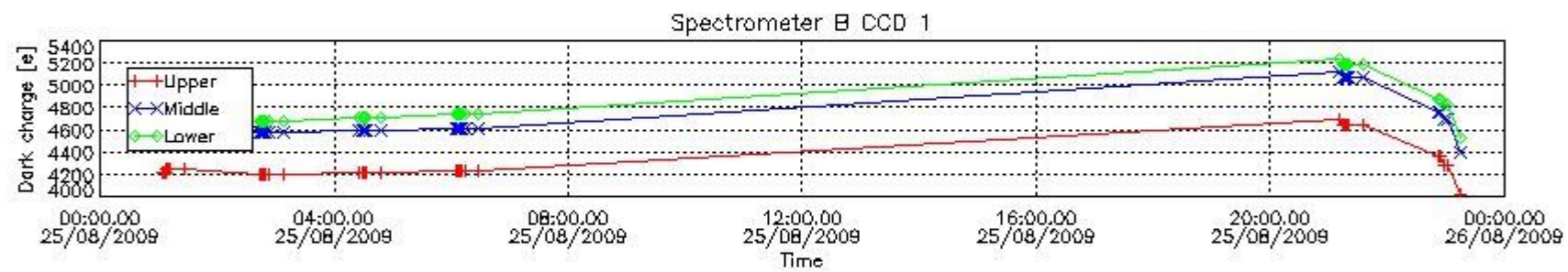
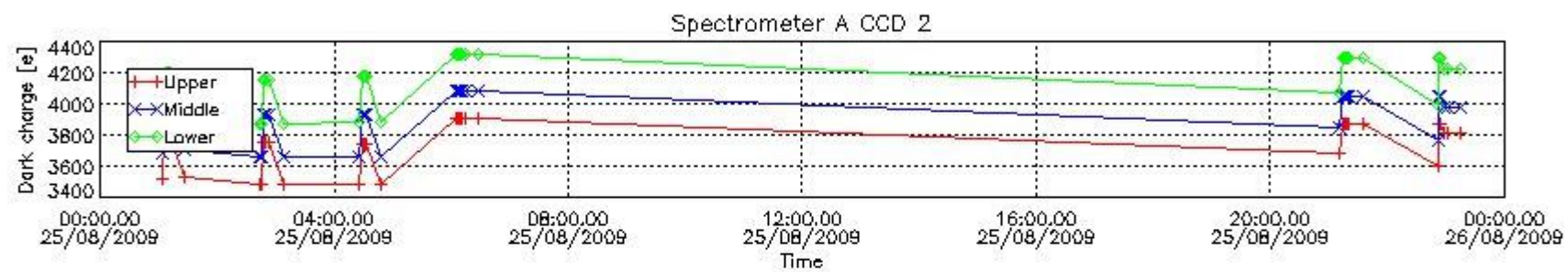
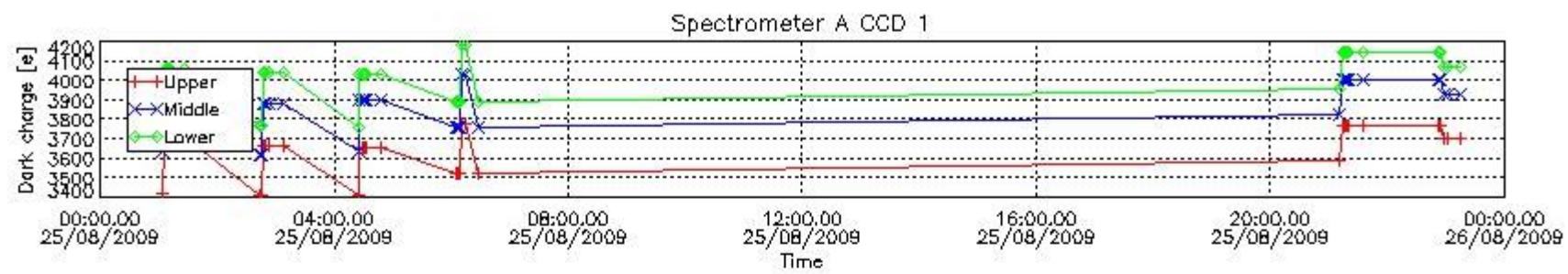
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090825_200222_000000472082_00014_39146_7366.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090825_200859_000000482082_00014_39146_7367.N1	DC map used
GOM_TRA_1PNPDE20090825_201857_000000532082_00014_39146_7368.N1	DC map used
GOM_TRA_1PNPDE20090825_202159_000000572082_00014_39146_7369.N1	DC map used
GOM_TRA_1PNPDE20090825_202948_000000462082_00014_39146_7370.N1	DC map used
GOM_TRA_1PNPDE20090825_204039_000000462082_00014_39146_7371.N1	DC map used
GOM_TRA_1PNPDE20090825_204251_000000472082_00014_39146_7372.N1	DC map used
GOM_TRA_1PNPDE20090825_205651_000000562082_00014_39146_7373.N1	DC map used
GOM_TRA_1PNPDE20090825_210012_000000452082_00014_39146_7374.N1	DC map used
GOM_TRA_1PNPDE20090825_210339_000000602082_00014_39146_7375.N1	DC map used
GOM_TRA_1PNPDE20090825_210637_000000442082_00014_39146_7376.N1	DC map used
GOM_TRA_1PNPDE20090825_211041_000000602082_00014_39146_7377.N1	DC map used

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



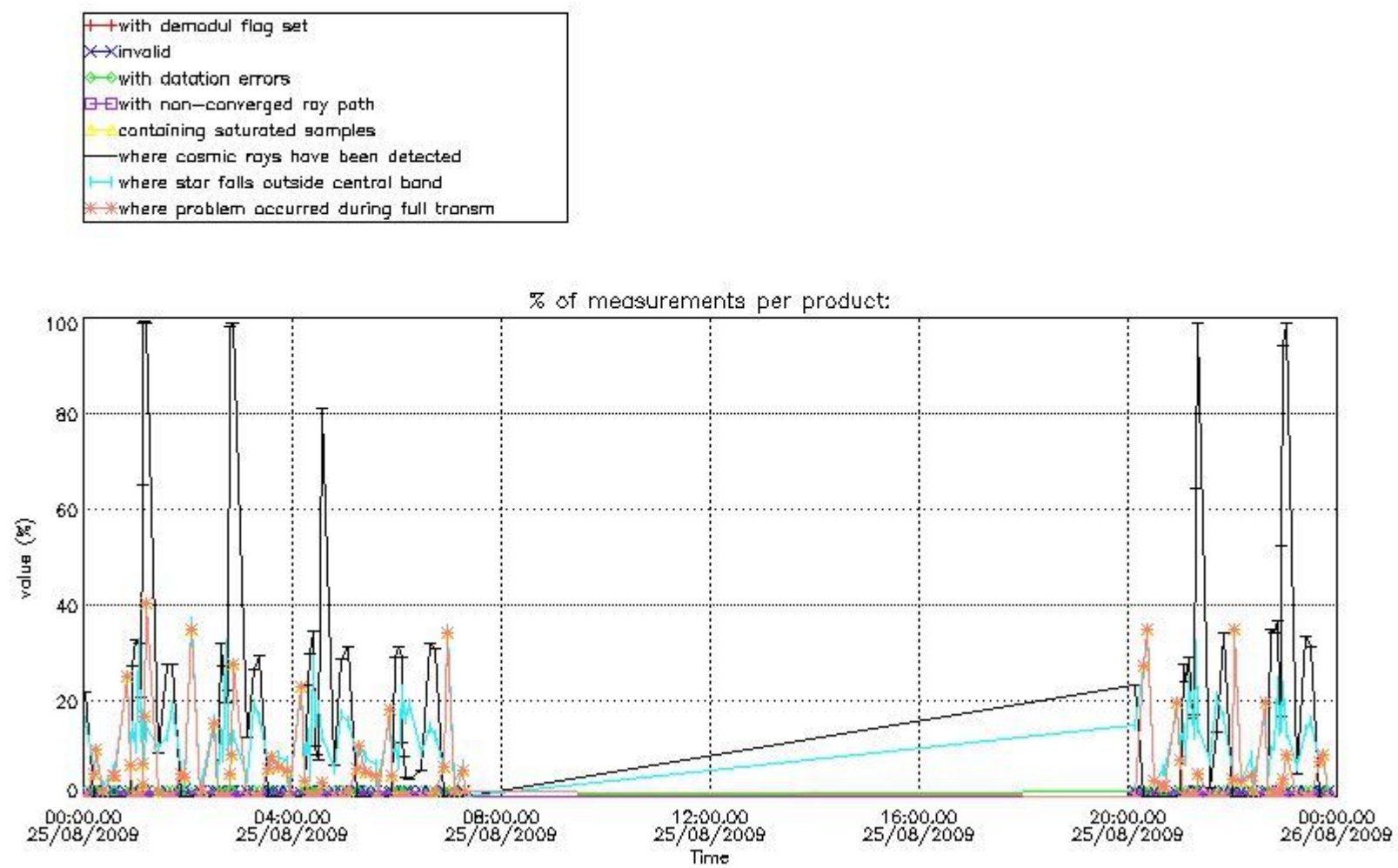
## 5. Demodulation flag and quality information monitoring

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.

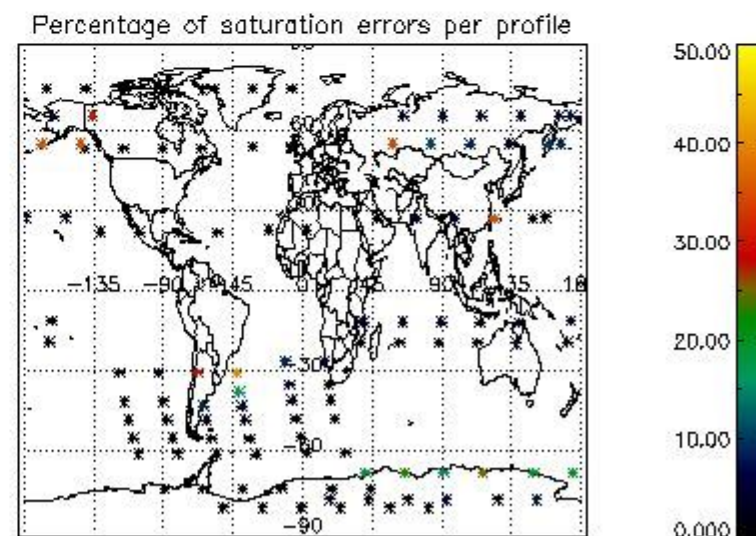
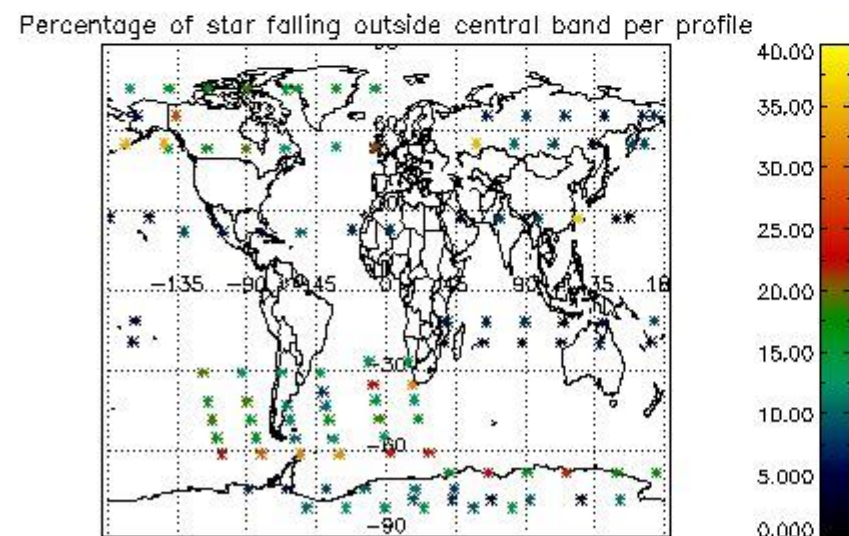
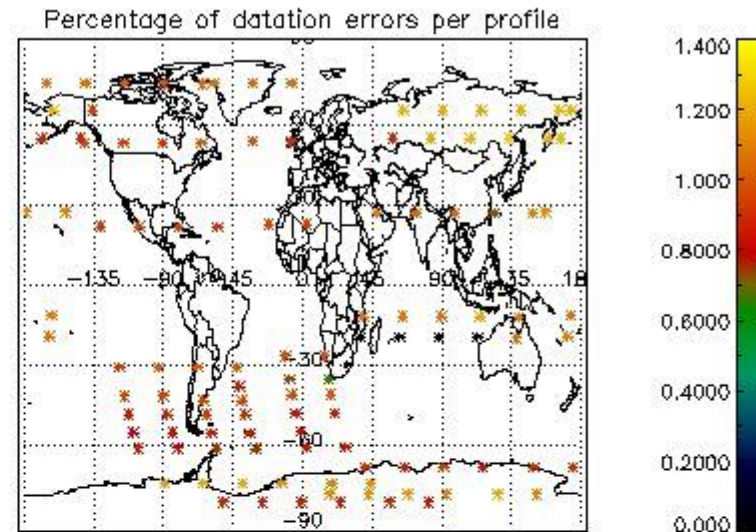
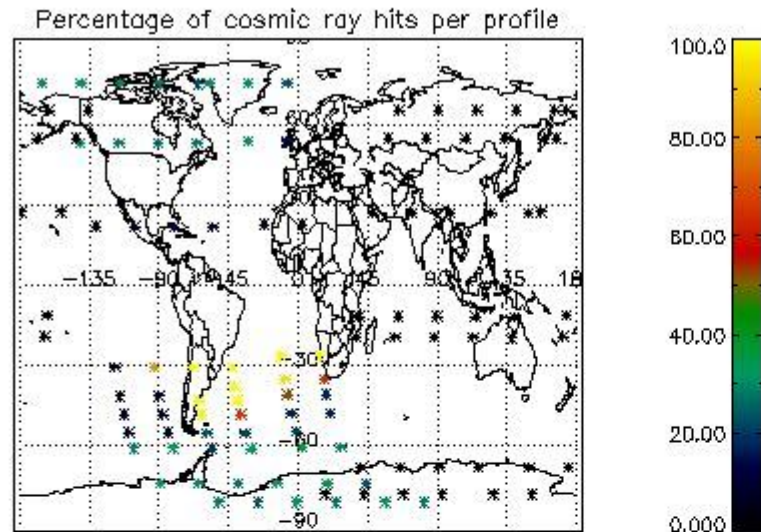
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.8421 %
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)

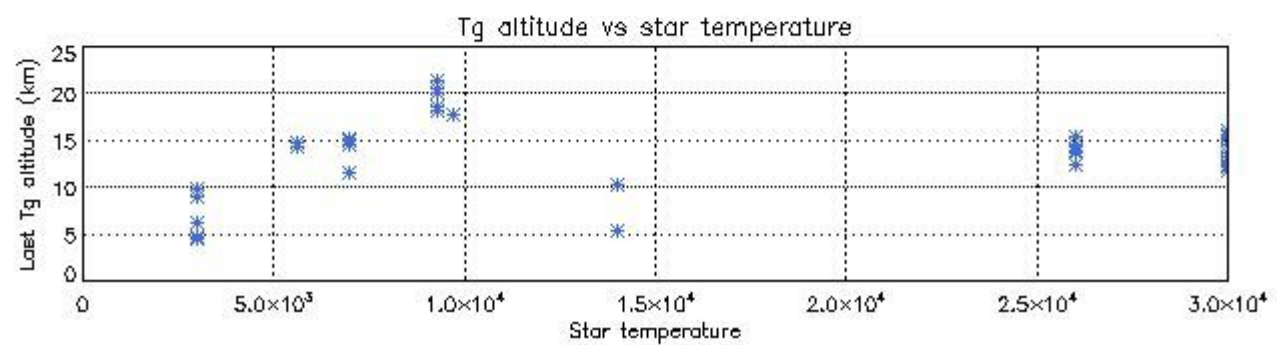
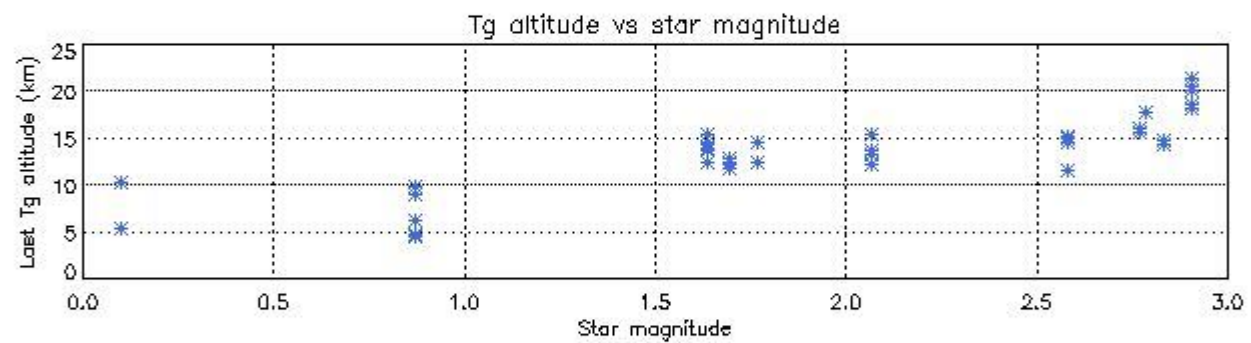
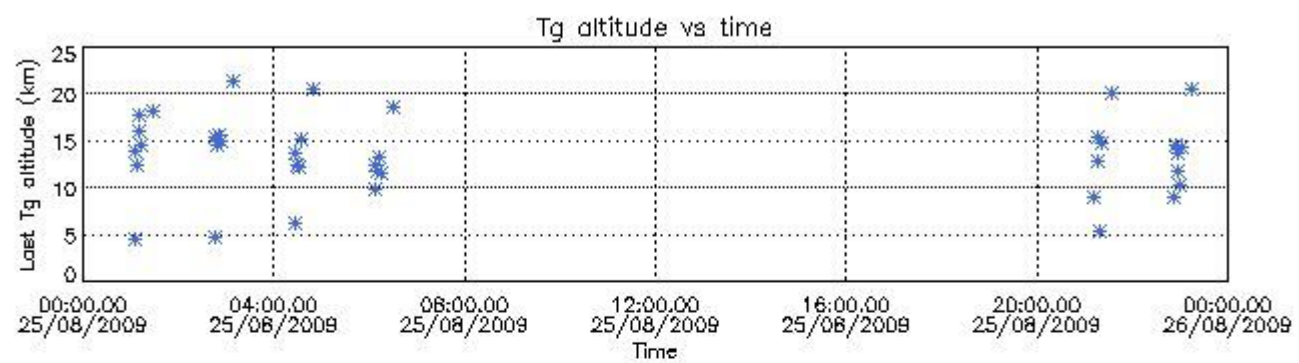
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.497	18.345	NaN
St. deviation:	4.2100	6.1188	NaN
Maximum:	21.341	28.564	NaN
Minimum:	4.4804	2.9094	NaN
Number of data:	38.000	50.000	NaN

### 6.2 Plot for DARK limb products

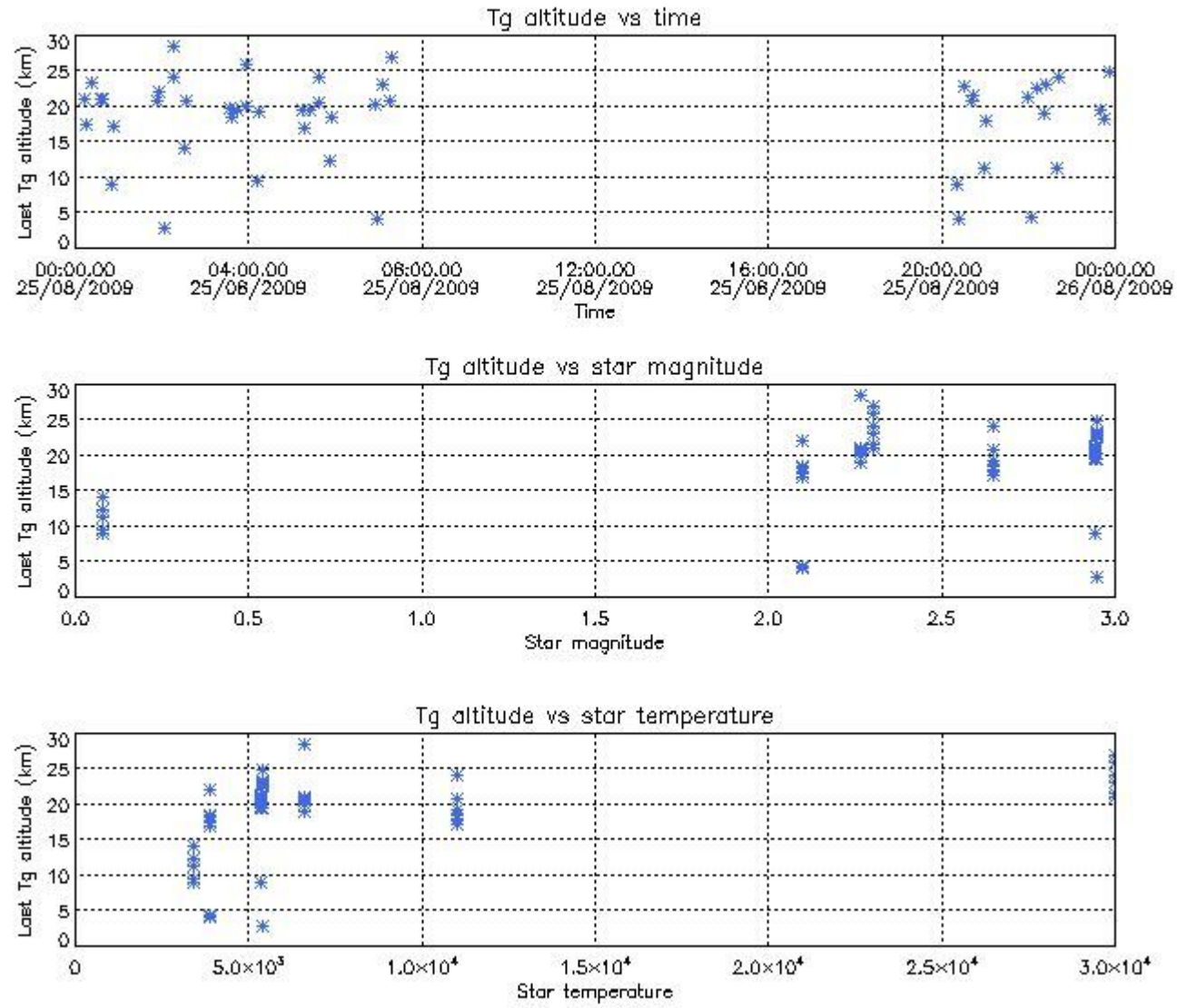


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

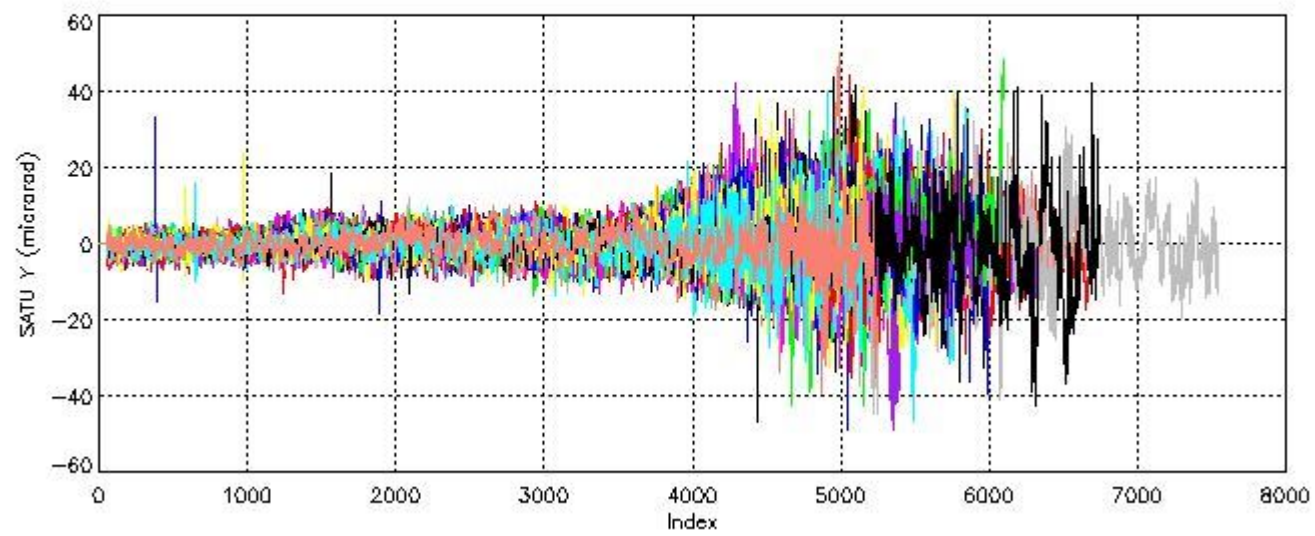
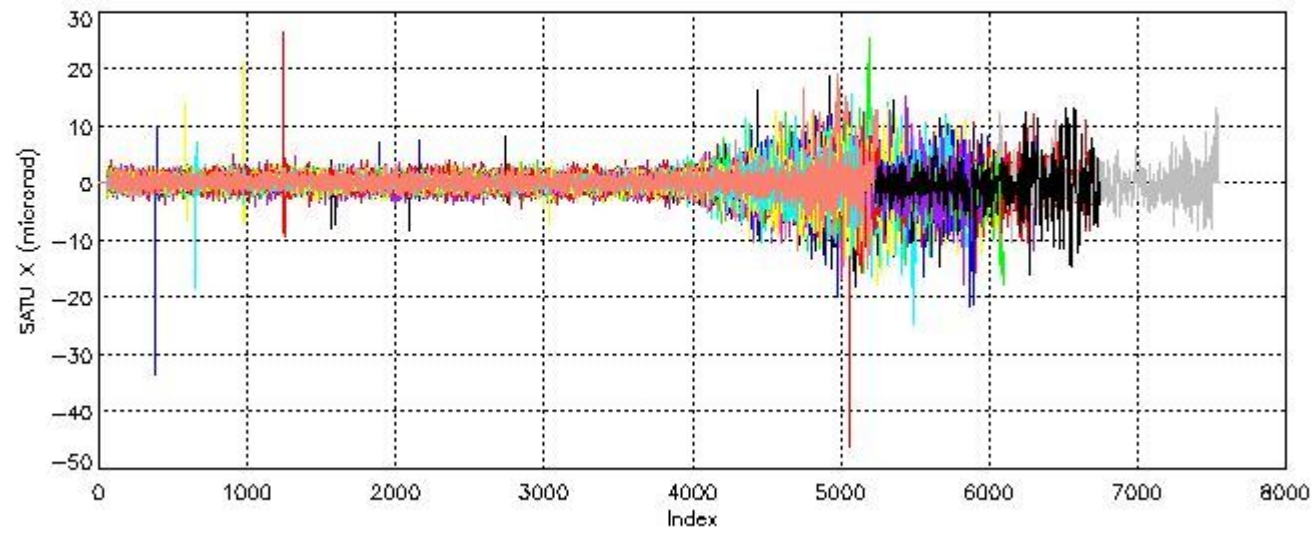


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.27224	-0.45519	0.29506	-0.48364
St. deviation:	0.62403	1.5433	0.71358	1.6558
Maximum:	21.300	33.400	4.5000	9.3000
Minimum:	-33.500	-15.200	-3.9000	-7.8000

Number of data:	45800.	45800.	52050.	52050.
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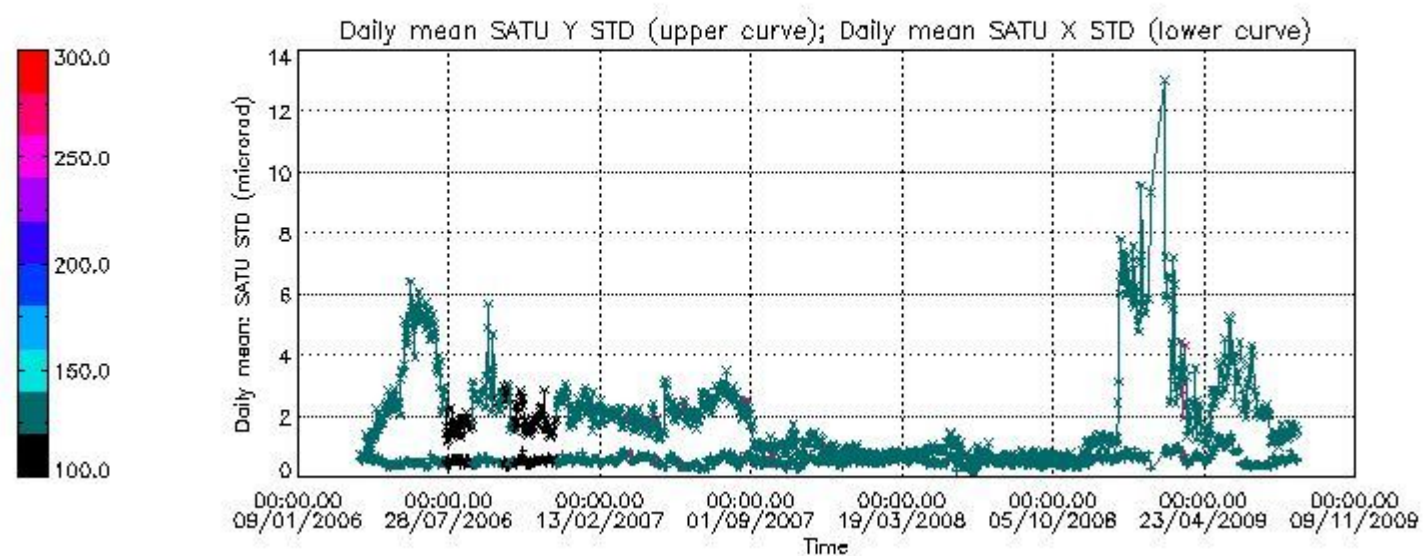
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

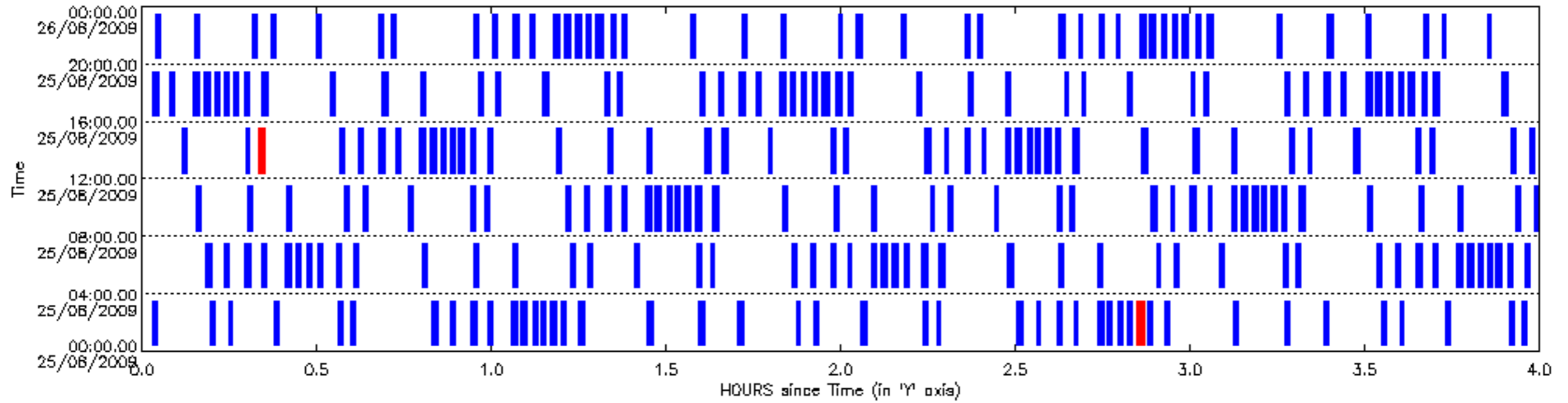
Lower curve: STD of SATU X axis

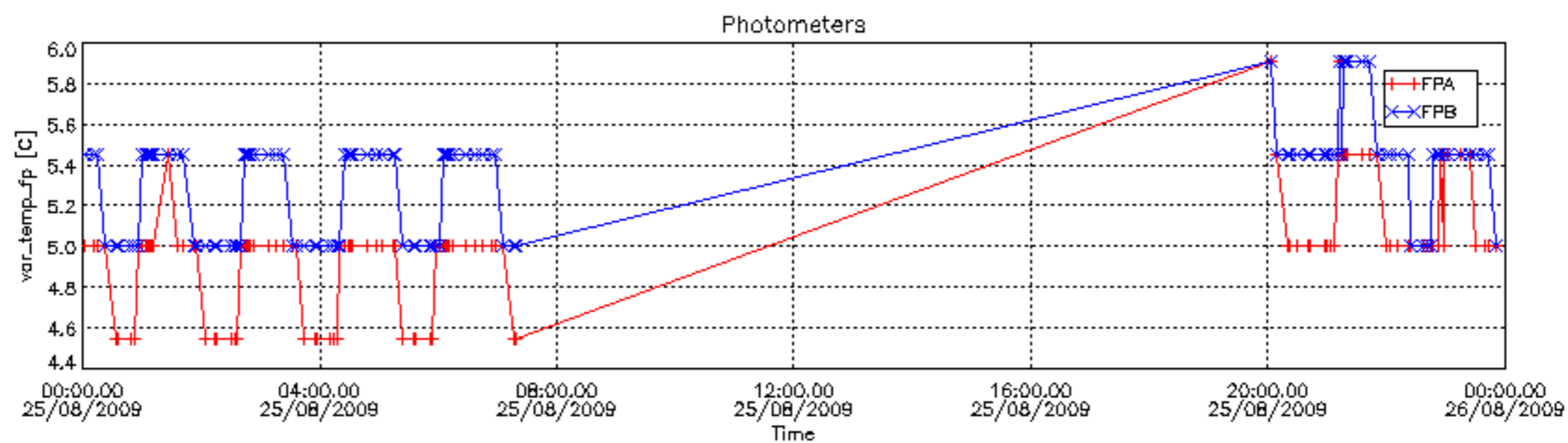
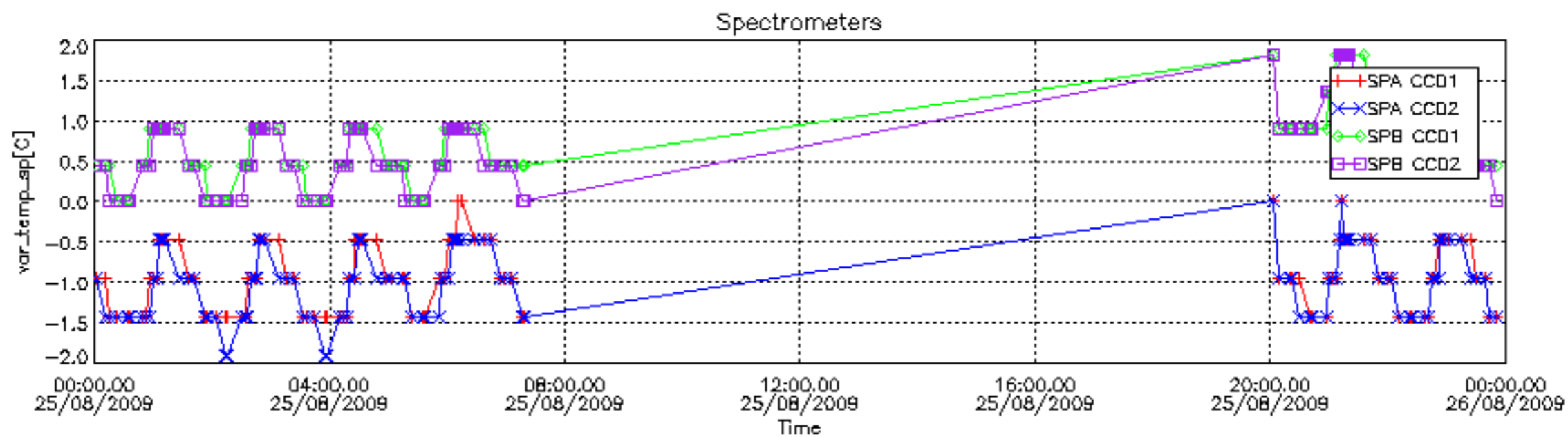


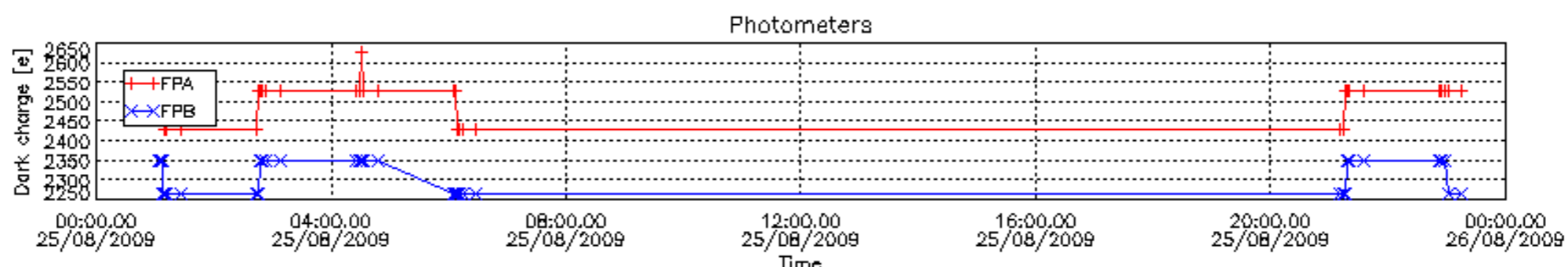
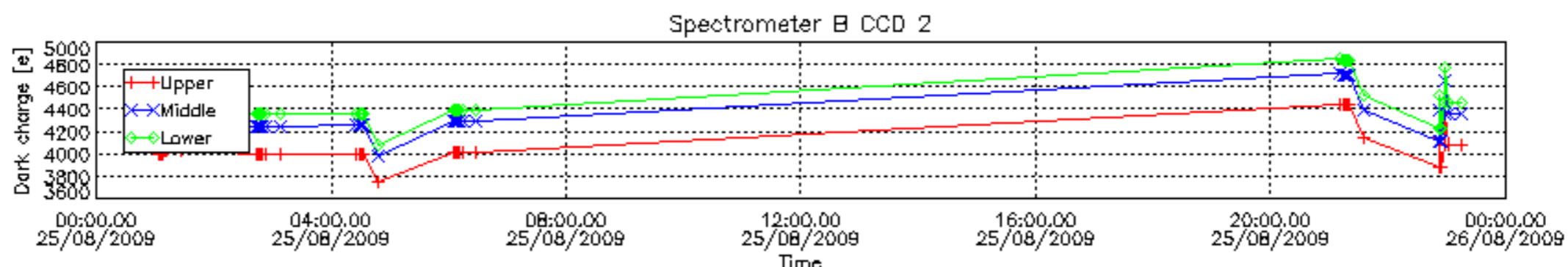
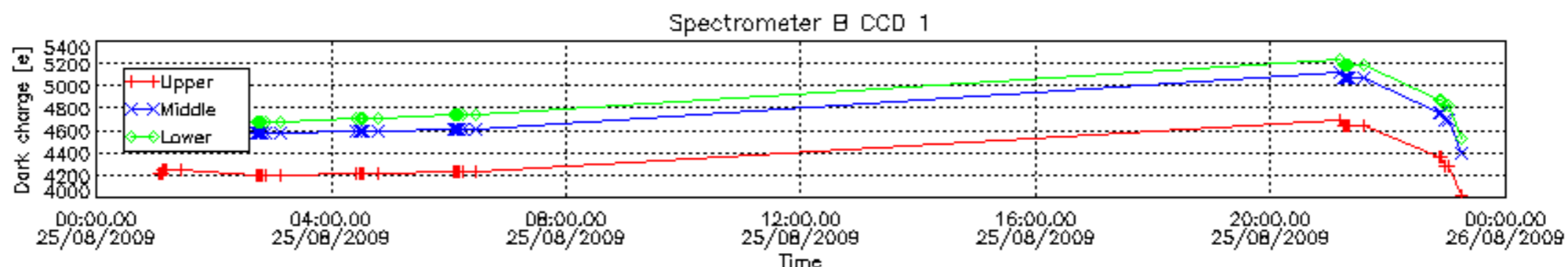
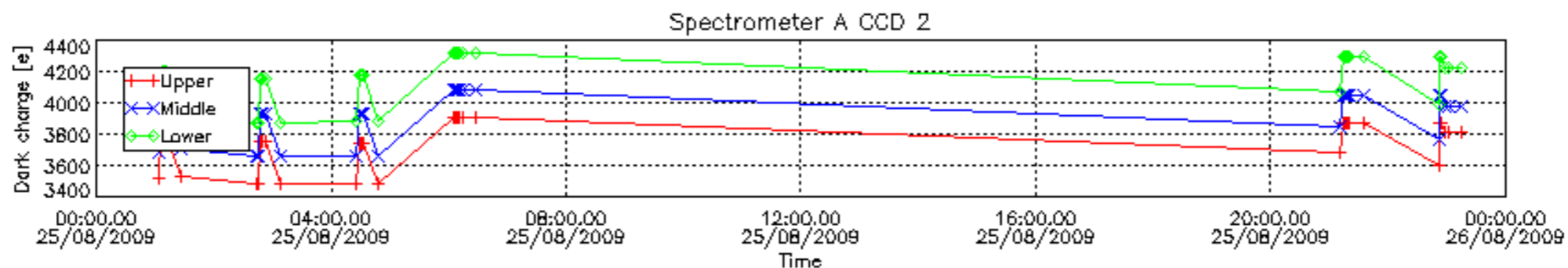
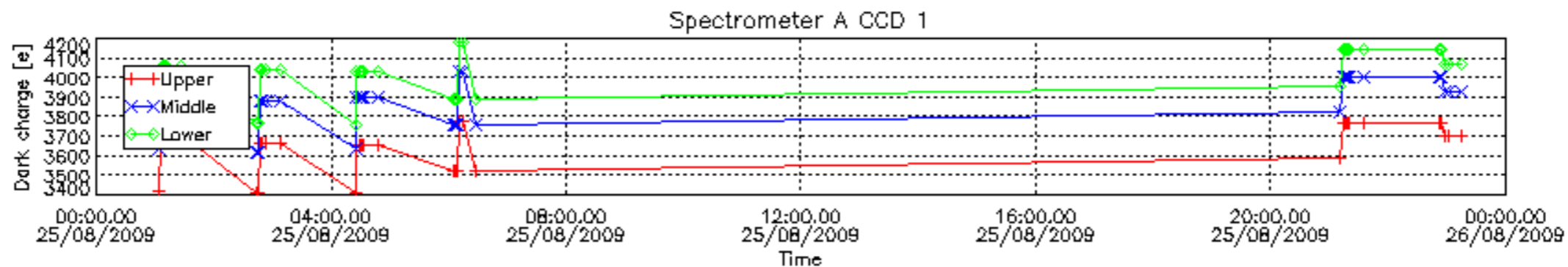
### 8. Auxiliary Data Files used for the production reported in section 2.4

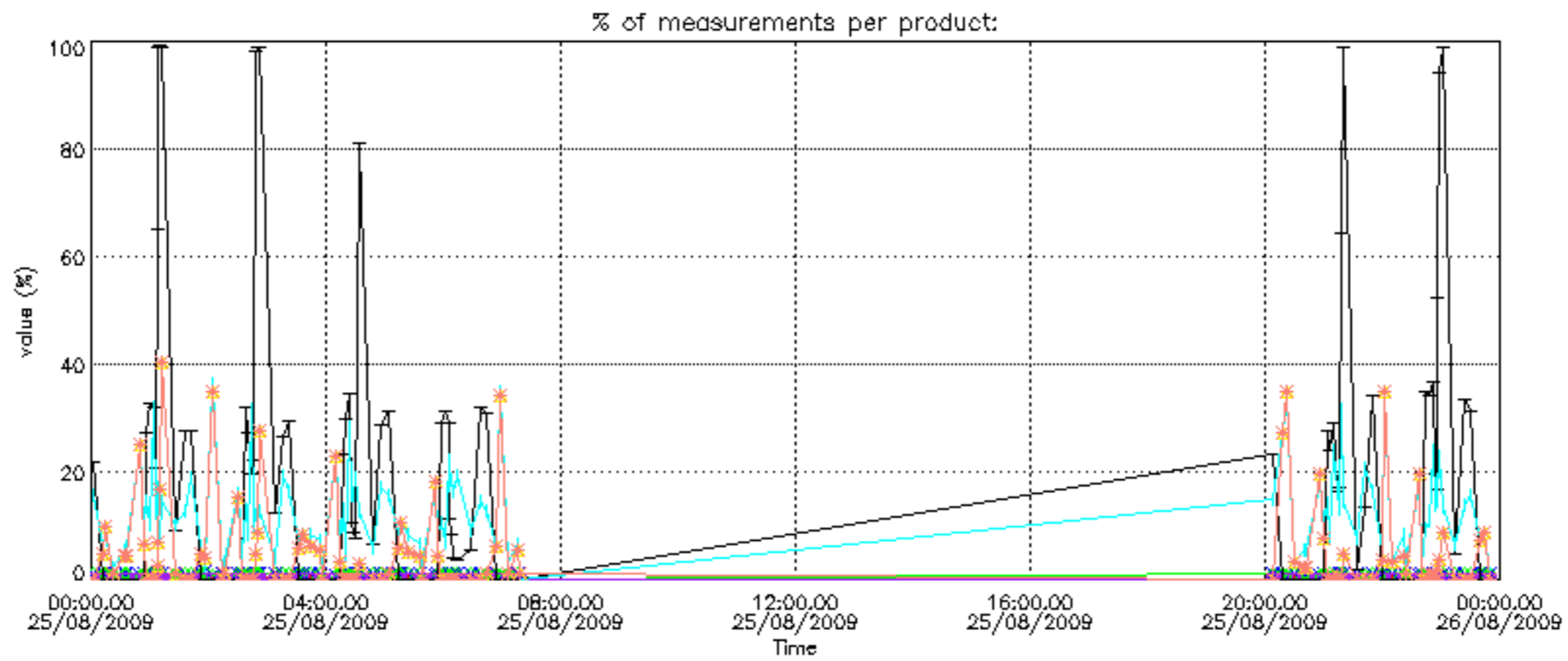
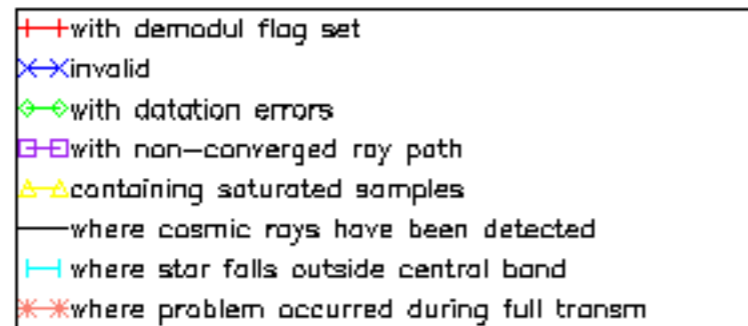
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-AUG-2009 00:01:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-AUG-2009 00:01:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-AUG-2009 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20090824_064111_20090824_210000_20090825_090000	1	25-AUG-2009 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20090824_184110_20090825_030000_20090825_150000	42	25-AUG-2009 04:10:54
ECMWF_FILE	AUX_ECF_AXNECM20090825_064110_20090825_150000_20090826_030000	76	25-AUG-2009 20:02:22
ECMWF_FILE	AUX_ECF_AXNECM20090825_064111_20090825_210000_20090826_090000	88	25-AUG-2009 21:12:26
OPTIONAL_ECMWF_FILE	MISSING	1	25-AUG-2009 00:01:44
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090825_035701_000060572082_00004_39136_8625.N1	59	25-AUG-2009 05:51:29
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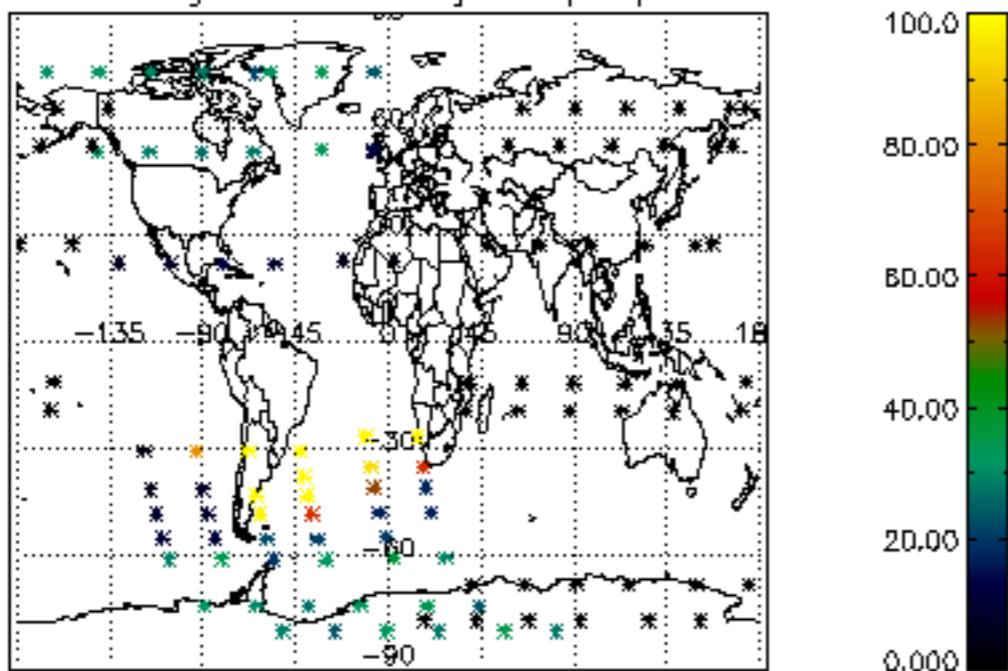




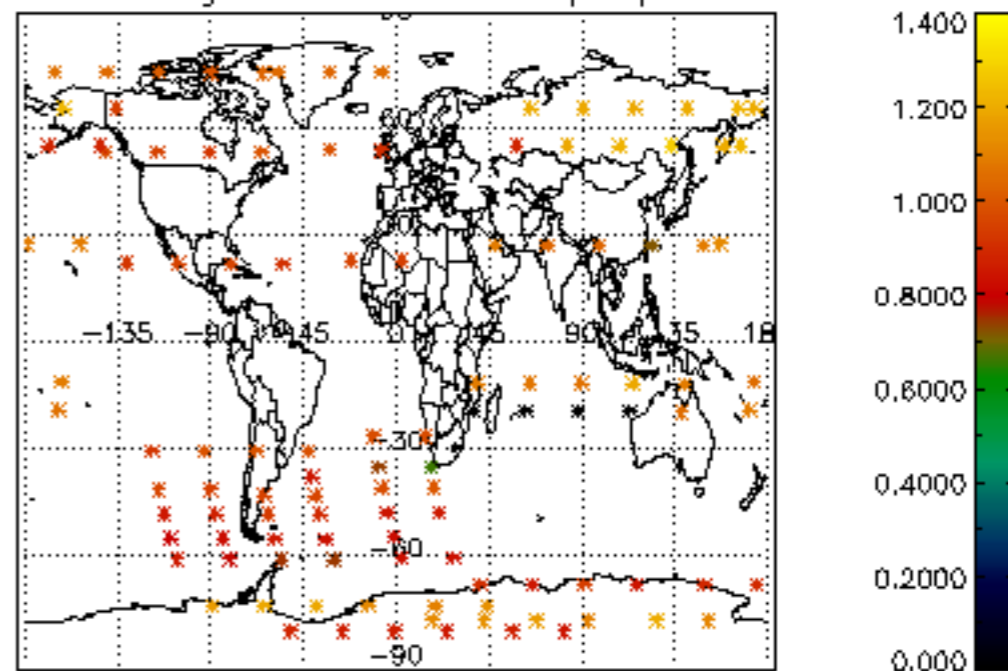




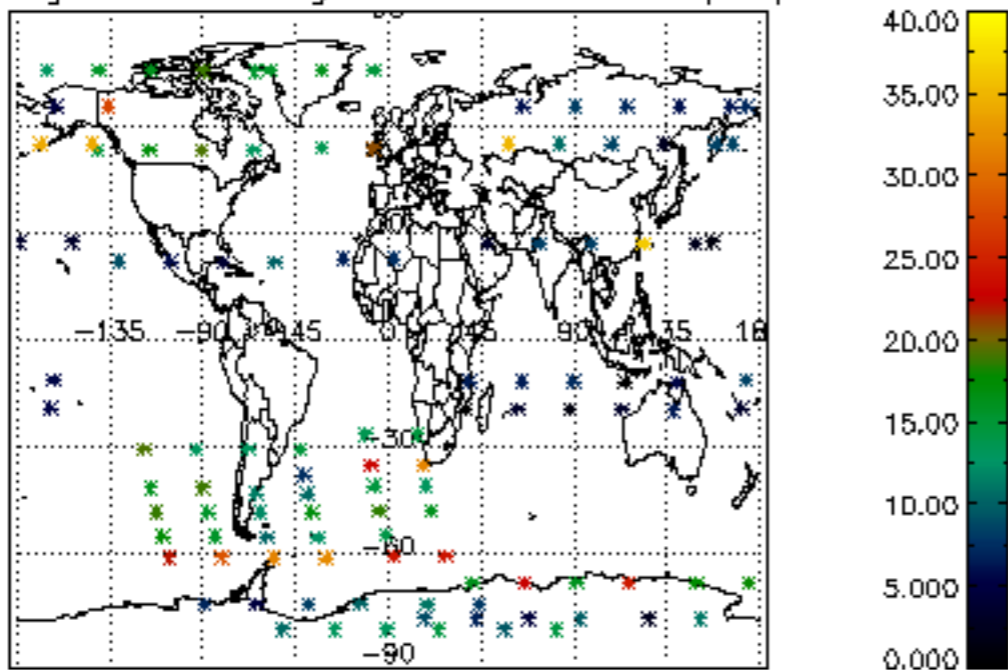
Percentage of cosmic ray hits per profile



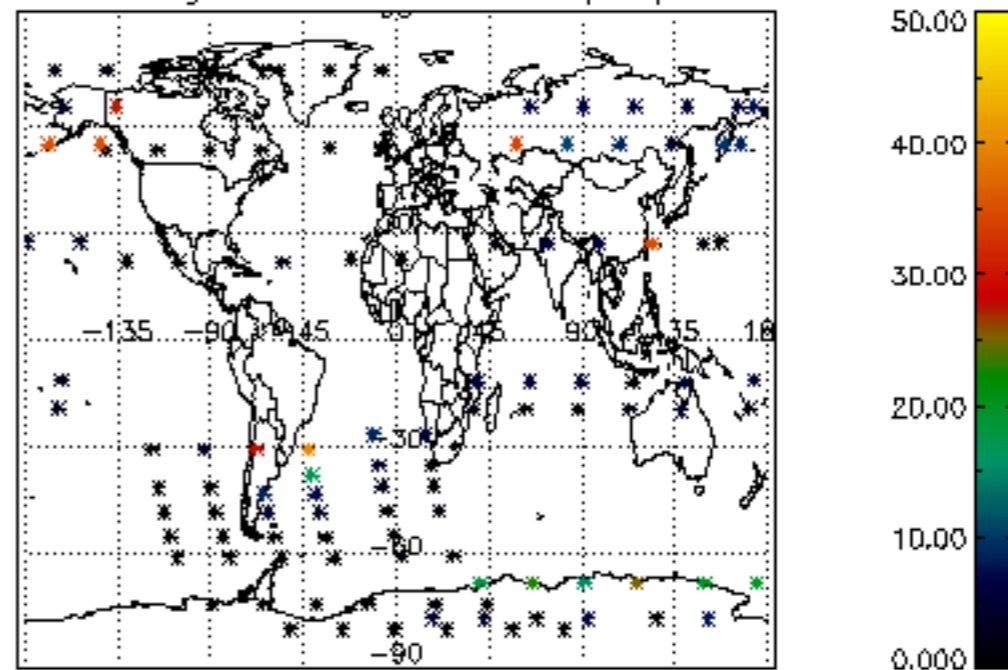
Percentage of datation errors per profile



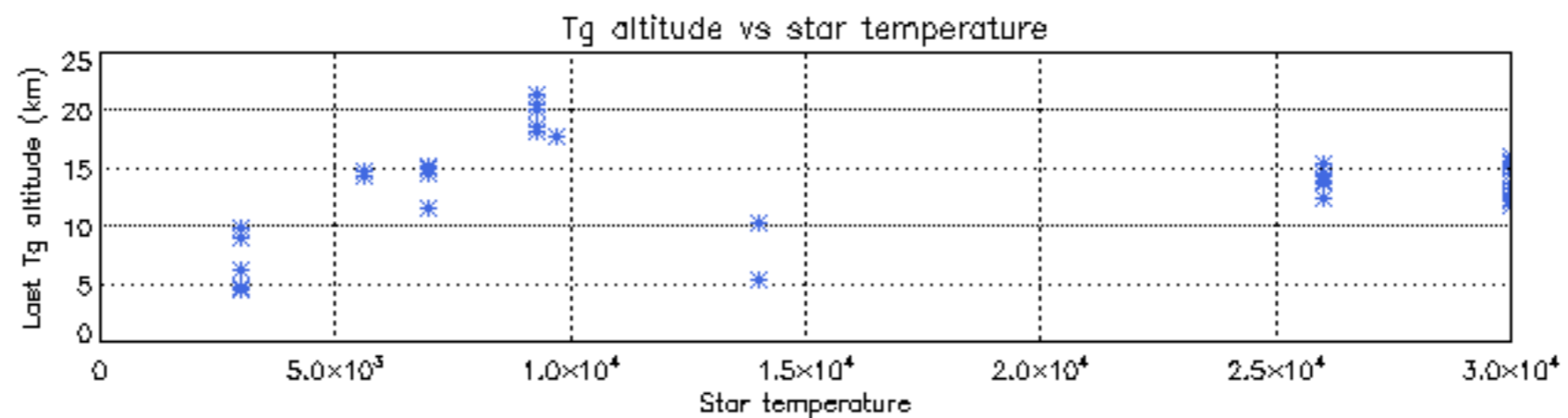
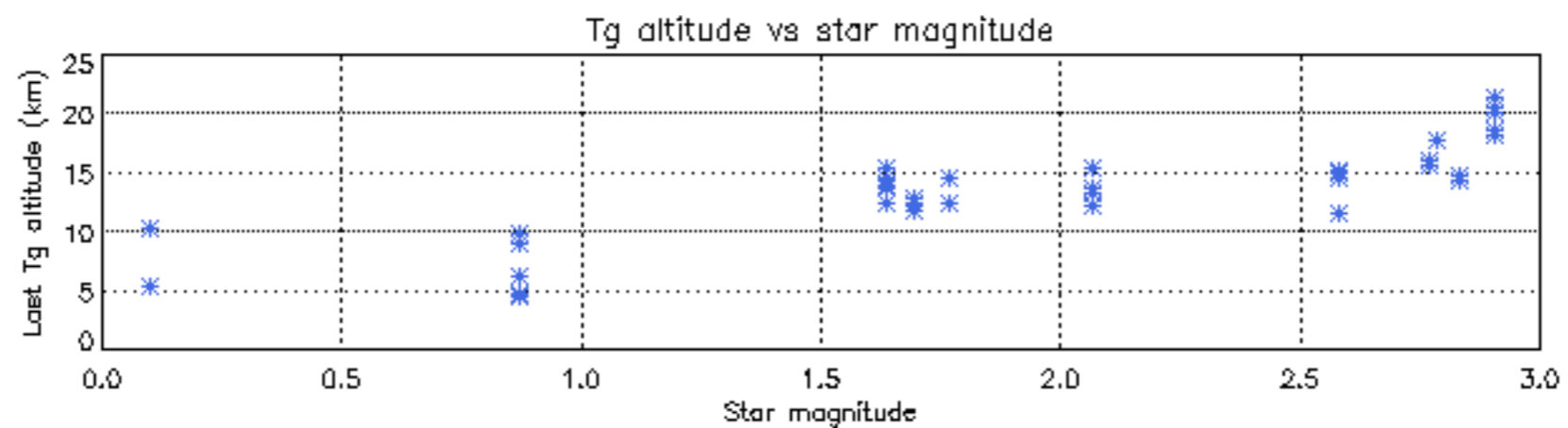
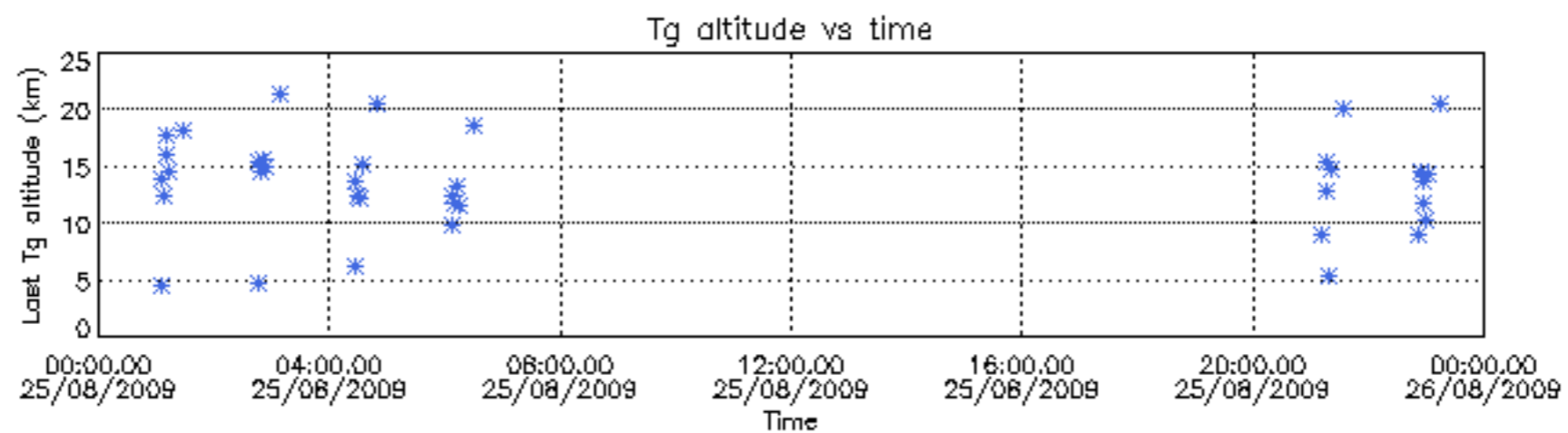
Percentage of star falling outside central band per profile



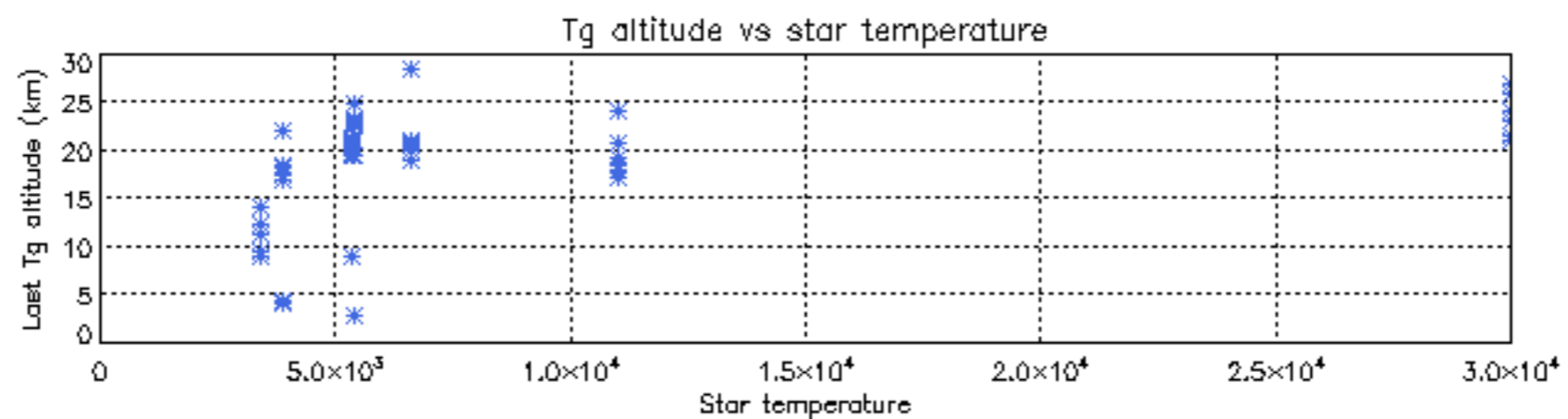
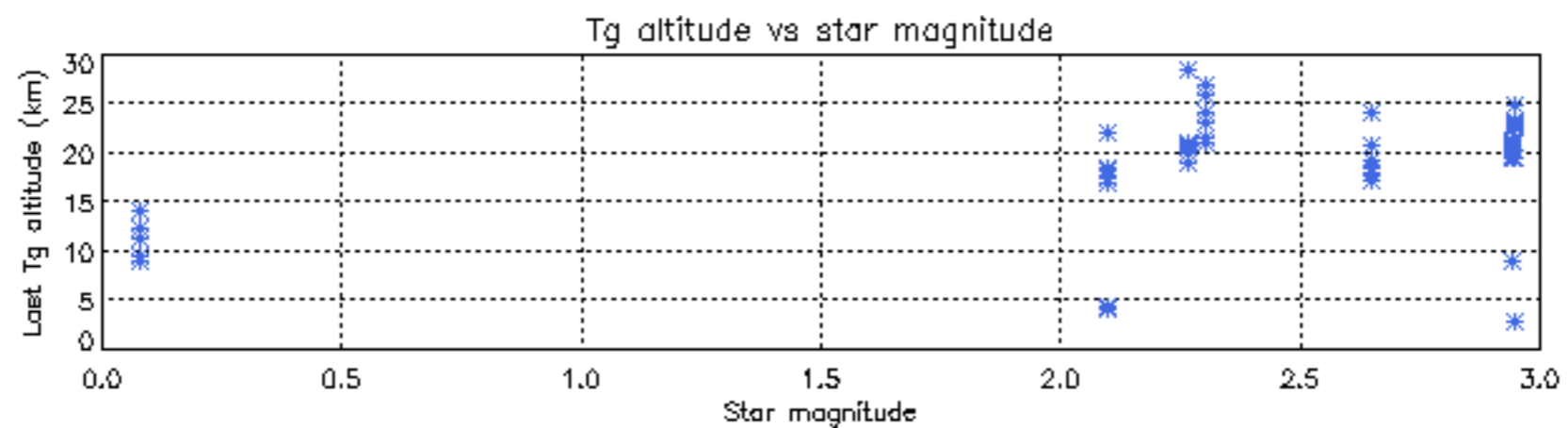
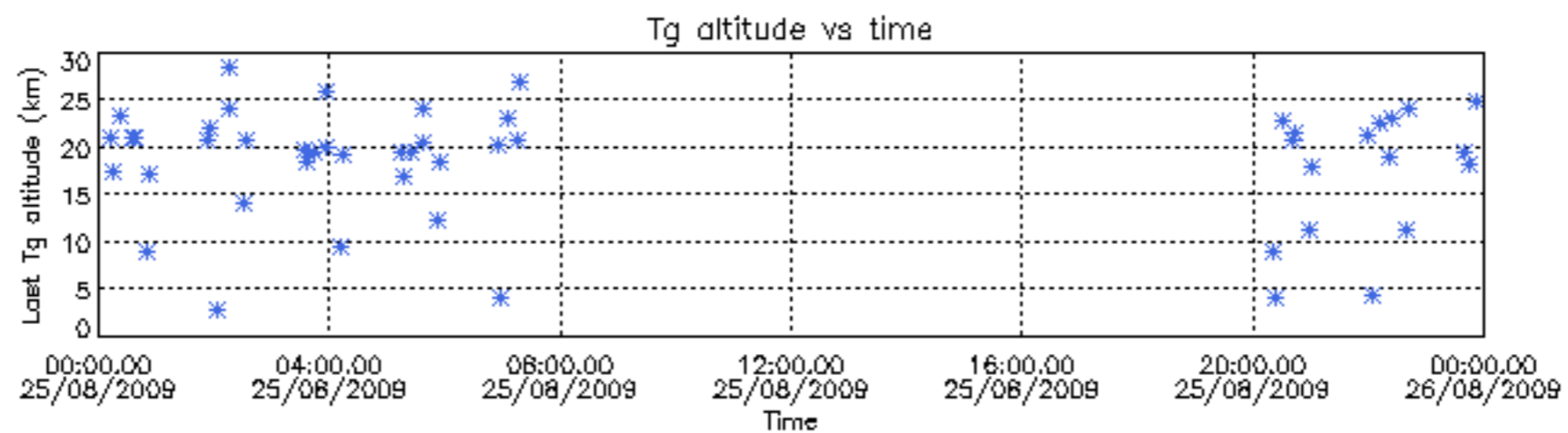
Percentage of saturation errors per profile

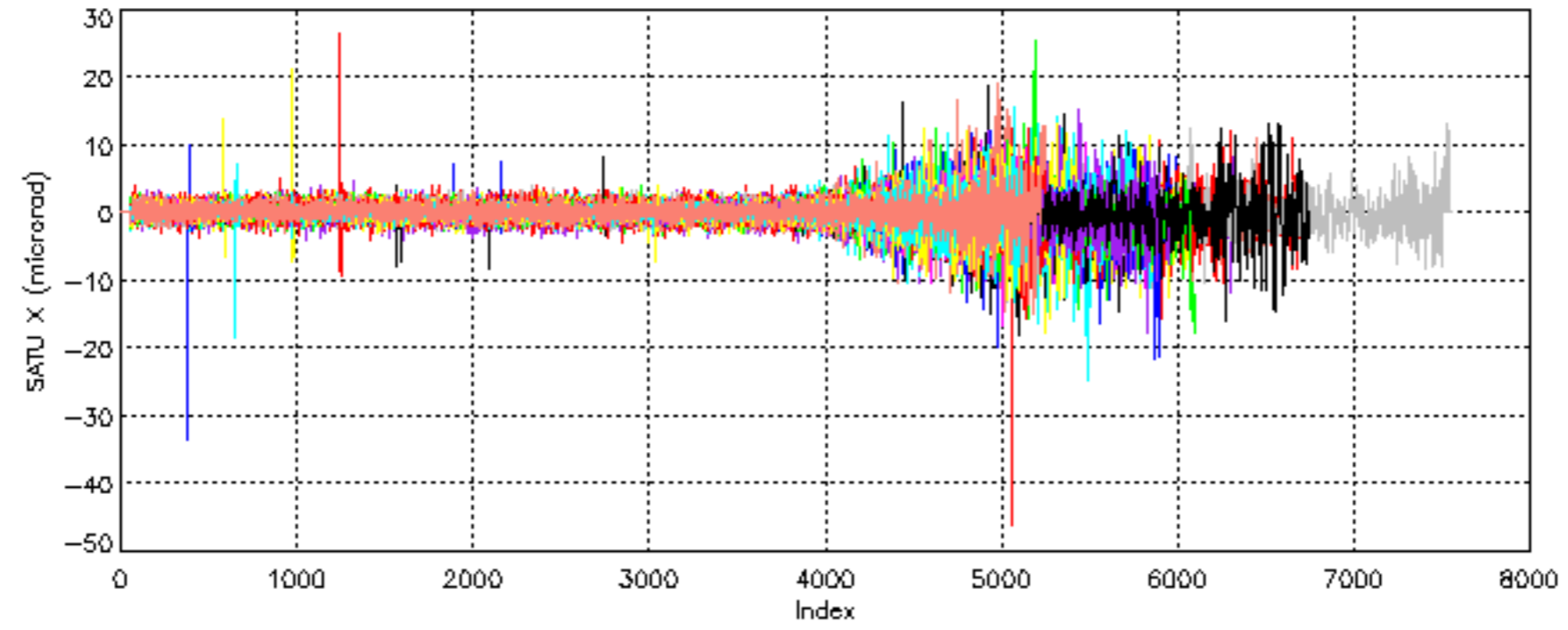


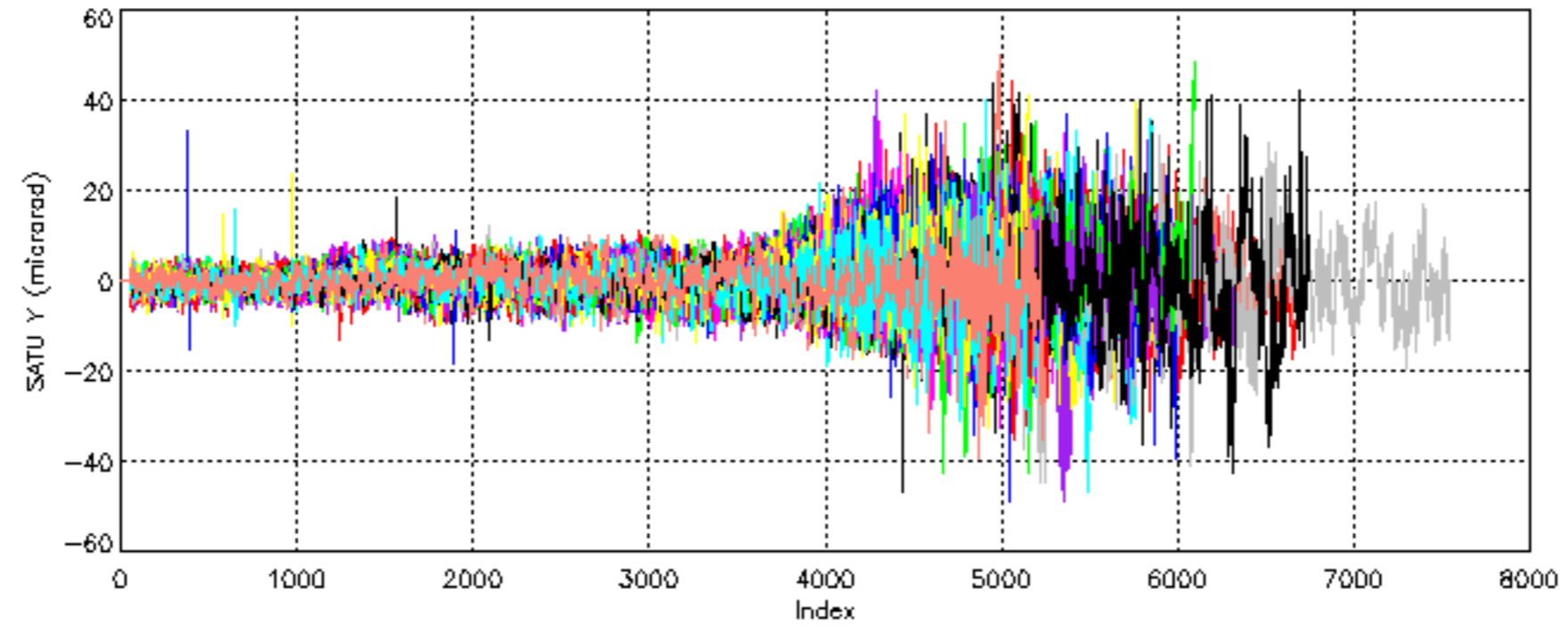
Tangent altitude at which the star is lost

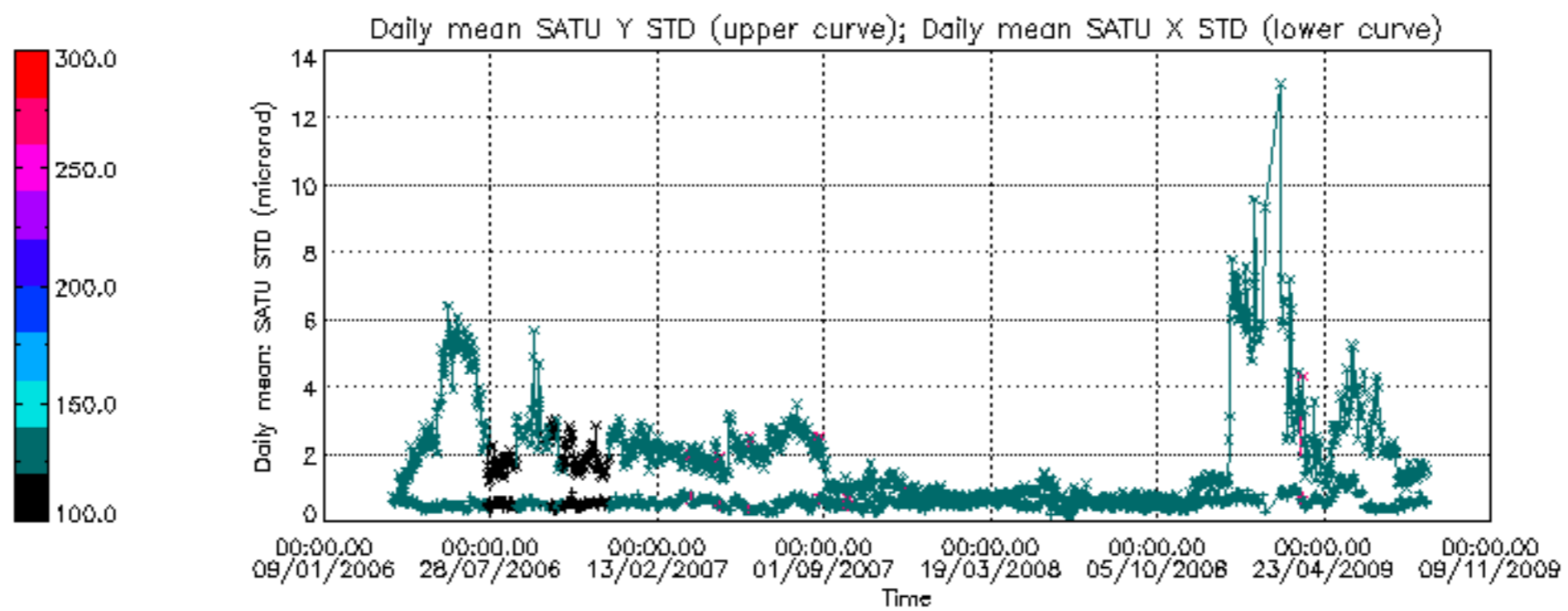


Tangent altitude at which the star is lost









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9; 3952.9; 05-AUG-2009 18:00:42; Bright; 49.5; 160; 23Gam Per ; 2.93; 4700;occ; 99; 0;38858
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 4; 2624.9; 06-AUG-2009 10:24:33; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;38868  
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9; 3948.4; 06-AUG-2009 10:46:37; Bright; 72.0; 160; 23Gam Per ; 2.93; 4700;occ; 144; 0;38868
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2; 2169.1; 07-AUG-2009 08:04:45; Bright; 35.0; 61; 8Eps Peg ; 2.10; 3900;occ; 70; 0;38881
3; 2538.8; 07-AUG-2009 08:10:55; Bright; 60.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 120; 0;38881
4; 2621.5; 07-AUG-2009 08:12:17; Bright; 39.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 78; 0;38881
5; 2729.4; 07-AUG-2009 08:14:05; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;38881
6; 3055.6; 07-AUG-2009 08:19:31; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;38881
7; 3406.2; 07-AUG-2009 08:25:22; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38881
8; 3532.7; 07-AUG-2009 08:27:28; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38881
9; 3942.8; 07-AUG-2009 08:34:18; Bright; 73.0; 160; 23Gam Per ; 2.93; 4700;occ; 146; 0;38881
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11; 4200.5; 07-AUG-2009 08:38:36; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;38881
12; 4310.2; 07-AUG-2009 08:40:26; Bright; 52.5; 149; 45Eps Per ; 2.89; 30000;occ; 105; 0;38881
13; 4530.0; 07-AUG-2009 08:44:06; Dark ; 47.0; 28; 12Bet Tau ; 1.65; 15200;occ; 94; 0;38881

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 5; 2728.9; 07-AUG-2009 09:54:41; Bright; 40.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 81; 0;38882  
 6; 3055.3; 07-AUG-2009 10:00:07; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38882  
 7; 3405.4; 07-AUG-2009 10:05:57; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38882  
 8; 3532.0; 07-AUG-2009 10:08:04; Bright; 72.0; 76; 27Gam Cas ; 2.30; 30000;occ; 144; 0;38882  
 9; 3942.2; 07-AUG-2009 10:14:54; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;38882  
 10; 4049.9; 07-AUG-2009 10:16:42; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38882  
 11; 4200.4; 07-AUG-2009 10:19:12; Bright; 46.5; 6; 13Alp Aur ; 0.08; 3400;occ; 93; 0;38882  
 12; 4310.1; 07-AUG-2009 10:21:02; Bright; 55.5; 149; 45Eps Per ; 2.89; 30000;occ; 111; 0;38882  
 13; 4530.3; 07-AUG-2009 10:24:42; Dark ; 47.0; 28; 12Bet Tau ; 1.65; 15200;occ; 94; 0;38882  
 14; 4829.7; 07-AUG-2009 10:29:41; Dark ; 70.0; 13; 87Alp Tau ; 0.87; 3800;occ; 140; 0;38882  
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 17; 5545.9; 07-AUG-2009 10:41:38; Dark ; 63.5; 165; 34Gam Eri ; 2.95; 3200;occ; 127; 0;38882  
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 19; 6105.8; 07-AUG-2009 10:50:57; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;38882  
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 21; 6939.0; 07-AUG-2009 11:04:51; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38882  
 22; 7227.2; 07-AUG-2009 11:09:39; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;38882  
 23; 7615.1; 07-AUG-2009 11:16:07; Bright; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;38882

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 4; 2621.0; 07-AUG-2009 11:33:29; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;38883  
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 6; 3054.9; 07-AUG-2009 11:40:42; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38883  
 7; 3404.6; 07-AUG-2009 11:46:32; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38883  
 8; 3531.3; 07-AUG-2009 11:48:39; Bright; 72.0; 76; 27Gam Cas ; 2.30; 30000;occ; 144; 0;38883  
 9; 3941.6; 07-AUG-2009 11:55:29; Bright; 73.0; 160; 23Gam Per ; 2.93; 4700;occ; 146; 0;38883  
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 11; 4200.4; 07-AUG-2009 11:59:48; Bright; 46.0; 6; 13Alp Aur ; 0.08; 3400;occ; 92; 0;38883  
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 18; 5803.5; 07-AUG-2009 12:26:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38883  
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 21; 6939.6; 07-AUG-2009 12:45:27; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38883  
 22; 7227.7; 07-AUG-2009 12:50:15; Dark ; 61.5; 18; 24Alp PsA ; 1.17; 9700;occ; 123; 0;38883  
 23; 7615.0; 07-AUG-2009 12:56:42; Bright; 62.0; 142; 49Del Cap ; 2.85; 8900;occ; 124; 0;38883

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 3; 2167.3; 07-AUG-2009 13:06:31; Bright; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;38884  
 4; 2537.7; 07-AUG-2009 13:12:41; Bright; 41.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 82; 0;38884  
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 6; 2728.4; 07-AUG-2009 13:15:52; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;38884  
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 9; 3530.7; 07-AUG-2009 13:29:14; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38884

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 3; 2166.8; 07-AUG-2009 14:47:06; Bright; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;38885
 4; 2537.7; 07-AUG-2009 14:53:17; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;38885
 5; 2620.7; 07-AUG-2009 14:54:40; Bright; 56.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 112; 0;38885
 6; 2727.9; 07-AUG-2009 14:56:27; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;38885
 7; 3054.3; 07-AUG-2009 15:01:54; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38885
 8; 3403.2; 07-AUG-2009 15:07:42; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38885
 9; 3530.0; 07-AUG-2009 15:09:49; Bright; 48.5; 76; 27Gam Cas ; 2.30; 30000;occ; 97; 0;38885
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7; 2727.3; 07-AUG-2009 18:17:39; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;38887
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21; 5806.8; 07-AUG-2009 19:08:58; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38887
22; 6111.1; 07-AUG-2009 19:14:02; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;38887
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6; 2619.7; 07-AUG-2009 19:56:27; Bright; 37.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 74; 0;38888
7; 2726.9; 07-AUG-2009 19:58:14; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;38888
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12; 4047.7; 07-AUG-2009 20:20:15; Bright; 54.0; 35; 33Alp Per ; 1.79; 6250;occ; 108; 0;38888
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16; 4662.1; 07-AUG-2009 20:30:29; Dark ; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;38888
17; 4832.6; 07-AUG-2009 20:33:20; Dark ; 61.0; 13; 87Alp Tau ; 0.87; 3800;occ; 122; 0;38888
18; 4947.3; 07-AUG-2009 20:35:15; Dark ; 45.5; 27; 24Gam Ori ; 1.64; 26000;occ; 91; 0;38888
19; 5222.4; 07-AUG-2009 20:39:50; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;38888
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22; 6729.4; 07-AUG-2009 21:04:57; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38888
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3; 695.4; 08-AUG-2009 00:26:10; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38891
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5; 1195.7; 08-AUG-2009 00:34:31; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;38891
6; 1579.6; 08-AUG-2009 00:40:54; Bright; 47.5; 142; 49Del Cap ; 2.85; 8900;occ; 95; 0;38891
7; 1807.7; 08-AUG-2009 00:44:43; Bright; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;38891
8; 2163.3; 08-AUG-2009 00:50:38; Bright; 50.0; 61; 8Eps Peg ; 2.10; 3900;occ; 100; 0;38891
9; 2535.1; 08-AUG-2009 00:56:50; Bright; 40.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 81; 0;38891
10; 2618.9; 08-AUG-2009 00:58:14; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;38891
11; 2725.8; 08-AUG-2009 01:00:01; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;38891
12; 3052.0; 08-AUG-2009 01:05:27; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;38891
13; 3398.0; 08-AUG-2009 01:11:13; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38891
14; 3525.4; 08-AUG-2009 01:13:20; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38891
15; 3937.8; 08-AUG-2009 01:20:13; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;38891
16; 4046.4; 08-AUG-2009 01:22:01; Bright; 50.5; 35; 33Alp Per ; 1.79; 6250;occ; 101; 0;38891
17; 4200.1; 08-AUG-2009 01:24:35; Bright; 45.5; 6; 13Alp Aur ; 0.08; 3400;occ; 91; 0;38891
18; 4309.0; 08-AUG-2009 01:26:24; Bright; 52.5; 149; 45Eps Per ; 2.89; 30000;occ; 105; 0;38891
19; 4531.5; 08-AUG-2009 01:30:06; Dark ; 47.0; 28; 12Bet Tau ; 1.65; 15200;occ; 94; 0;38891
20; 4662.5; 08-AUG-2009 01:32:17; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;38891
21; 4834.0; 08-AUG-2009 01:35:09; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;38891
22; 4948.5; 08-AUG-2009 01:37:03; Dark ; 46.0; 27; 24Gam Ori ; 1.64; 26000;occ; 92; 0;38891
23; 5224.2; 08-AUG-2009 01:41:39; Dark ; 31.5; 7; 19Bet Ori ; 0.10; 14000;occ; 63; 0;38891

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 3; 79.4; 08-AUG-2009 01:56:30; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;38892  
 4; 696.4; 08-AUG-2009 02:06:47; Dark ; 59.0; 84; Alp Phe ; 2.40; 4500;occ; 118; 0;38892  
 5; 907.8; 08-AUG-2009 02:10:19; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38892  
 6; 1196.2; 08-AUG-2009 02:15:07; Dark ; 59.0; 18; 24Alp PsA ; 1.17; 9700;occ; 118; 0;38892  
 7; 1579.9; 08-AUG-2009 02:21:31; Bright; 47.0; 142; 49Del Cap ; 2.85; 8900;occ; 94; 0;38892  
 8; 1807.5; 08-AUG-2009 02:25:18; Bright; 45.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 91; 0;38892  
 9; 2162.7; 08-AUG-2009 02:31:13; Bright; 52.5; 61; 8Eps Peg ; 2.10; 3900;occ; 105; 0;38892  
 10; 2534.7; 08-AUG-2009 02:37:25; Bright; 38.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 76; 0;38892  
 11; 2618.5; 08-AUG-2009 02:38:49; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;38892  
 12; 2725.5; 08-AUG-2009 02:40:36; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;38892  
 13; 3051.6; 08-AUG-2009 02:46:02; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;38892  
 14; 3397.0; 08-AUG-2009 02:51:48; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38892  
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 3;-1835.8; 08-AUG-2009 03:05:11; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;38892  
 4;-1726.8; 08-AUG-2009 03:07:00; Bright; 54.0; 149; 45Eps Per ; 2.89; 30000;occ; 108; 0;38892  
 5;-1504.0; 08-AUG-2009 03:10:43; Dark ; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;38892  
 6;-1372.9; 08-AUG-2009 03:12:54; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;38892  
 7;-1201.2; 08-AUG-2009 03:15:45; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;38892  
 8;-1086.9; 08-AUG-2009 03:17:40; Dark ; 41.5; 27; 24Gam Ori ; 1.64; 26000;occ; 83; 0;38892  
 9; -811.1; 08-AUG-2009 03:22:16; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;38892  
 10; -225.0; 08-AUG-2009 03:32:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38892  
 11; 80.7; 08-AUG-2009 03:37:07; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;38893  
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 13; 908.4; 08-AUG-2009 03:50:55; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38893  
 14; 1197.0; 08-AUG-2009 03:55:44; Dark ; 58.5; 18; 24Alp PsA ; 1.17; 9700;occ; 117; 0;38893  
 15; 1580.1; 08-AUG-2009 04:02:07; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;38893  
 16; 1807.6; 08-AUG-2009 04:05:54; Bright; 46.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 92; 0;38893  
 17; 2162.2; 08-AUG-2009 04:11:49; Bright; 53.5; 61; 8Eps Peg ; 2.10; 3900;occ; 107; 0;38893  
 18; 2534.5; 08-AUG-2009 04:18:01; Bright; 41.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 82; 0;38893  
 19; 2618.5; 08-AUG-2009 04:19:25; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;38893  
 20; 2725.3; 08-AUG-2009 04:21:12; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;38893  
 21; 3051.5; 08-AUG-2009 04:26:38; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38893  
 22; 3396.4; 08-AUG-2009 04:32:23; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38893  
 23; 3524.0; 08-AUG-2009 04:34:31; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38893

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 4;-1727.0; 08-AUG-2009 04:47:36; Bright; 53.5; 149; 45Eps Per ; 2.89; 30000;occ; 107; 0;38893  
 5;-1503.7; 08-AUG-2009 04:51:19; Dark ; 48.0; 28; 12Bet Tau ; 1.65; 15200;occ; 96; 0;38893  
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 7;-1200.6; 08-AUG-2009 04:56:22; Dark ; 71.0; 13; 87Alp Tau ; 0.87; 3800;occ; 142; 0;38893  
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 11; 81.7; 08-AUG-2009 05:17:44; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;38894  
 12; 698.3; 08-AUG-2009 05:28:01; Dark ; 61.0; 84; Alp Phe ; 2.40; 4500;occ; 122; 0;38894  
 13; 908.9; 08-AUG-2009 05:31:32; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38894  
 14; 1197.6; 08-AUG-2009 05:36:20; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;38894  
 15; 1580.1; 08-AUG-2009 05:42:43; Bright; 66.0; 142; 49Del Cap ; 2.85; 8900;occ; 132; 0;38894  
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 18; 2534.0; 08-AUG-2009 05:58:37; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;38894  
 19; 2618.0; 08-AUG-2009 06:00:01; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;38894  
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 23; 3523.4; 08-AUG-2009 06:15:06; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38894

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4; 2156.9; 08-AUG-2009 20:57:43; Bright; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;38903  
5; 2531.1; 08-AUG-2009 21:03:57; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;38903  
6; 2721.9; 08-AUG-2009 21:07:08; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;38903  
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8; 3388.1; 08-AUG-2009 21:18:14; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38903  
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13; 4308.0; 08-AUG-2009 21:33:34; Bright; 57.5; 149; 45Eps Per ; 2.89; 30000;occ; 115; 0;38903  
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9; 1806.3; 08-AUG-2009 22:32:28; Bright; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;38904  
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11; 2530.5; 08-AUG-2009 22:44:33; Bright; 40.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 80; 0;38904  
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17; 4041.5; 08-AUG-2009 23:09:44; Bright; 57.0; 35; 33Alp Per ; 1.79; 6250;occ; 114; 0;38904  
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19; 4308.0; 08-AUG-2009 23:14:10; Bright; 52.0; 149; 45Eps Per ; 2.89; 30000;occ; 104; 0;38904  
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 9; 2155.4; 09-AUG-2009 01:59:29; Bright; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;38906  
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6; 1210.8; 09-AUG-2009 23:31:32; Dark ; 58.0; 18; 24Alp PsA ; 1.17; 9700;occ; 116; 0;38919  
7; 1582.5; 09-AUG-2009 23:37:43; Bright; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;38919  
8; 1805.0; 09-AUG-2009 23:41:26; Bright; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;38919  
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 10; 4032.4; 10-AUG-2009 13:43:21; Bright; 55.5; 35; 33Alp Per ; 1.79; 6250;occ; 111; 0;38927  
 11; 4198.8; 10-AUG-2009 13:46:07; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;38927  
 12; 4305.7; 10-AUG-2009 13:47:54; Bright; 44.0; 149; 45Eps Per ; 2.89; 30000;occ; 88; 0;38927  
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 16; 4964.9; 10-AUG-2009 13:58:53; Dark ; 47.0; 27; 24Gam Ori ; 1.64; 26000;occ; 94; 0;38927  
 17; 5072.4; 10-AUG-2009 14:00:41; Dark ; 40.5; 72; 34Del Ori ; 2.25; 30000;occ; 81; 0;38927

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22; 6766.5; 10-AUG-2009 14:28:55; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38927
23; 6962.8; 10-AUG-2009 14:32:11; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;38927
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 4; 2144.6; 10-AUG-2009 14:52:29; Bright; 51.0; 61; 8Eps Peg ; 2.10; 3900;occ; 102; 0;38928
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23; 6767.5; 10-AUG-2009 16:09:32; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38928
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 9; 3367.4; 10-AUG-2009 16:53:28; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38929
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13; 4198.8; 10-AUG-2009 17:07:19; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;38929
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 4;-1181.4; 10-AUG-2009 17:18:15; Dark ; 66.0; 13; 87Alp Tau ; 0.87; 3800;occ; 132; 0;38929
 5;-1070.0; 10-AUG-2009 17:20:06; Dark ; 48.5; 27; 24Gam Ori ; 1.64; 26000;occ; 97; 0;38929
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11; 732.5; 10-AUG-2009 17:50:09; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38930
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 3; 1804.2; 10-AUG-2009 16:27:24; Bright; 64.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 128; 0;38929
 4; 1946.3; 10-AUG-2009 16:29:46; Bright; 25.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 50; 0;38929
 5; 2144.2; 10-AUG-2009 16:33:04; Bright; 50.0; 61; 8Eps Peg ; 2.10; 3900;occ; 100; 0;38929
 6; 2522.5; 10-AUG-2009 16:39:23; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;38929
 7; 2714.0; 10-AUG-2009 16:42:34; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;38929

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13; 4198.8; 10-AUG-2009 17:07:19; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;38929  
14; 4305.5; 10-AUG-2009 17:09:06; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;38929  
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4; 1945.9; 10-AUG-2009 18:10:22; Bright; 31.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 62; 0;38930  
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6; 737.1; 11-AUG-2009 02:13:13; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38935
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9; 1803.5; 11-AUG-2009 02:30:59; Bright; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;38935
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13; 738.1; 11-AUG-2009 03:53:50; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38936
14; 1219.3; 11-AUG-2009 04:01:51; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;38936
15; 1584.4; 11-AUG-2009 04:07:56; Bright; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;38936
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22; 3361.8; 11-AUG-2009 04:37:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38936
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17; 1943.4; 11-AUG-2009 05:54:31; Bright; 51.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 102; 0;38937
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3; 1802.7; 11-AUG-2009 20:57:34; Bright; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;38946

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9; 2135.7; 12-AUG-2009 00:24:18; Bright; 47.5; 61; 8Eps Peg ; 2.10; 3900;occ; 95; 0;38948  
10; 2516.8; 12-AUG-2009 00:30:40; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;38948  
11; 2708.9; 12-AUG-2009 00:33:52; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;38948  
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16; 4023.4; 12-AUG-2009 00:55:46; Bright; 38.0; 35; 33Alp Per ; 1.79; 6250;occ; 76; 0;38948  
17; 4097.8; 12-AUG-2009 00:57:01; Bright; 75.0; 175; 39Del Per ; 3.01; 19400;occ; 150; 0;38948  
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19; 4677.7; 12-AUG-2009 01:06:40; Dark ; 45.0; 176; 23Zet Tau ; 3.02; 22000;occ; 90; 0;38948  
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 9; 3914.8; 11-AUG-2009 08:07:58; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38938  
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 3; 2139.6; 11-AUG-2009 09:18:59; Bright; 47.5; 61; 8Eps Peg ; 2.10; 3900;occ; 95; 0;38939  
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 22; 7257.3; 11-AUG-2009 10:44:17; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;38939  
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 3; 2139.2; 11-AUG-2009 10:59:35; Bright; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;38940



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4; 2138.3; 11-AUG-2009 14:20:45; Bright; 48.5; 61; 8Eps Peg ; 2.10; 3900;occ; 97; 0;38942
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6; 2710.6; 11-AUG-2009 14:30:18; Bright; 56.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 112; 0;38942
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11; 4100.0; 11-AUG-2009 14:53:27; Bright; 55.0; 175; 39Del Per ; 3.01; 19400;occ; 110; 0;38942
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7; 2709.5; 11-AUG-2009 19:32:05; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;38945
8; 3034.2; 11-AUG-2009 19:37:29; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38945
9; 3354.6; 11-AUG-2009 19:42:50; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38945
10; 3485.4; 11-AUG-2009 19:45:00; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38945
11; 3911.2; 11-AUG-2009 19:52:06; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;38945
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19; 5258.1; 11-AUG-2009 20:14:33; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;38945
20; 5629.8; 11-AUG-2009 20:20:45; Dark ; 72.0; 165; 34Gam Eri ; 2.95; 3200;occ; 144; 0;38945
21; 5856.5; 11-AUG-2009 20:24:32; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38945
22; 6175.1; 11-AUG-2009 20:29:50; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;38945
23; 6783.0; 11-AUG-2009 20:39:58; Dark ; 64.5; 84; Alp Phe ; 2.40; 4500;occ; 129; 0;38945

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 4; 749.9; 12-AUG-2009 01:41:49; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38949  
 5; 1225.7; 12-AUG-2009 01:49:44; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;38949  
 6; 1585.7; 12-AUG-2009 01:55:44; Bright; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;38949  
 7; 1802.6; 12-AUG-2009 01:59:21; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;38949  
 8; 1939.1; 12-AUG-2009 02:01:38; Bright; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;38949  
 9; 2135.4; 12-AUG-2009 02:04:54; Bright; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;38949  
 10; 2516.6; 12-AUG-2009 02:11:15; Bright; 40.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 80; 0;38949  
 11; 2708.6; 12-AUG-2009 02:14:27; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;38949  
 12; 3032.8; 12-AUG-2009 02:19:51; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;38949  
 13; 3351.3; 12-AUG-2009 02:25:10; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38949  
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 3; -1938.5; 12-AUG-2009 02:37:36; Bright; 58.5; 175; 39Del Per ; 3.01; 19400;occ; 117; 0;38949  
 4; -1493.8; 12-AUG-2009 02:45:01; Dark ; 49.0; 28; 12Bet Tau ; 1.65; 15200;occ; 98; 0;38949  
 5; -1357.9; 12-AUG-2009 02:47:17; Dark ; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;38949  
 6; -1169.6; 12-AUG-2009 02:50:25; Dark ; 75.5; 13; 87Alp Tau ; 0.87; 3800;occ; 151; 0;38949  
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 13; 143.9; 12-AUG-2009 03:12:18; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;38950  
 14; 750.8; 12-AUG-2009 03:22:25; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38950  
 15; 1226.3; 12-AUG-2009 03:30:21; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;38950  
 16; 1586.0; 12-AUG-2009 03:36:21; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;38950  
 17; 1802.6; 12-AUG-2009 03:39:57; Bright; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;38950  
 18; 1939.0; 12-AUG-2009 03:42:14; Bright; 74.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 148; 0;38950  
 19; 2135.0; 12-AUG-2009 03:45:30; Bright; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;38950  
 20; 2516.4; 12-AUG-2009 03:51:51; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;38950  
 21; 2708.4; 12-AUG-2009 03:55:03; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;38950  
 22; 3032.6; 12-AUG-2009 04:00:27; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;38950  
 23; 3350.7; 12-AUG-2009 04:05:45; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;38950  
 24; 3481.8; 12-AUG-2009 04:07:56; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;38950

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 3; -1938.7; 12-AUG-2009 04:18:12; Bright; 76.0; 175; 39Del Per ; 3.01; 19400;occ; 152; 0;38950  
 4; -1493.6; 12-AUG-2009 04:25:37; Dark ; 46.0; 28; 12Bet Tau ; 1.65; 15200;occ; 92; 0;38950  
 5; -1357.6; 12-AUG-2009 04:27:53; Dark ; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;38950  
 6; -1168.9; 12-AUG-2009 04:31:02; Dark ; 68.0; 13; 87Alp Tau ; 0.87; 3800;occ; 136; 0;38950  
 7; -1059.7; 12-AUG-2009 04:32:51; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;38950  
 8; -943.7; 12-AUG-2009 04:34:47; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;38950  
 9; -860.4; 12-AUG-2009 04:36:10; Dark ; 44.0; 125; 44Iot Ori ; 2.77; 30000;occ; 88; 0;38950  
 10; -774.4; 12-AUG-2009 04:37:36; Dark ; 56.5; 7; 19Bet Ori ; 0.10; 14000;occ; 113; 0;38950  
 11; -398.7; 12-AUG-2009 04:43:52; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38950  
 12; -174.9; 12-AUG-2009 04:47:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38950  
 13; 145.0; 12-AUG-2009 04:52:56; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;38951  
 14; 751.7; 12-AUG-2009 05:03:02; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38951  
 15; 1226.6; 12-AUG-2009 05:10:57; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;38951  
 16; 1585.9; 12-AUG-2009 05:16:56; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;38951  
 17; 1802.5; 12-AUG-2009 05:20:33; Bright; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;38951  
 18; 1938.7; 12-AUG-2009 05:22:49; Bright; 51.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 103; 0;38951  
 19; 2134.5; 12-AUG-2009 05:26:05; Bright; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;38951  
 20; 2516.2; 12-AUG-2009 05:32:27; Bright; 40.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 81; 0;38951  
 21; 2708.2; 12-AUG-2009 05:35:39; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;38951  
 22; 3032.4; 12-AUG-2009 05:41:03; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;38951  
 23; 3349.8; 12-AUG-2009 05:46:20; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38951  
 24; 3481.0; 12-AUG-2009 05:48:32; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38951

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5; -1357.4; 12-AUG-2009 06:08:29; Dark ; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;38951  
6; -1168.3; 12-AUG-2009 06:11:38; Dark ; 78.0; 13; 87Alp Tau ; 0.87; 3800;occ; 156; 0;38951  
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8; -943.2; 12-AUG-2009 06:15:23; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;38951  
9; -859.9; 12-AUG-2009 06:16:47; Dark ; 43.5; 125; 44Iot Ori ; 2.77; 30000;occ; 87; 0;38951  
10; -773.7; 12-AUG-2009 06:18:13; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;38951  
11; -397.2; 12-AUG-2009 06:24:29; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38951  
12; -174.0; 12-AUG-2009 06:28:13; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38951  
13; 146.1; 12-AUG-2009 06:33:33; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;38952  
14; 752.7; 12-AUG-2009 06:43:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38952  
15; 1227.2; 12-AUG-2009 06:51:34; Dark ; 55.5; 18; 24Alp PsA ; 1.17; 9700;occ; 111; 0;38952  
16; 1586.1; 12-AUG-2009 06:57:33; Bright; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;38952  
17; 1802.5; 12-AUG-2009 07:01:09; Bright; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;38952  
18; 1938.3; 12-AUG-2009 07:03:25; Bright; 51.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 103; 0;38952  
19; 2134.1; 12-AUG-2009 07:06:41; Bright; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;38952  
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21; 2707.8; 12-AUG-2009 07:16:14; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;38952  
22; 3032.0; 12-AUG-2009 07:21:39; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38952  
23; 3349.0; 12-AUG-2009 07:26:56; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38952  
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3; 1802.0; 12-AUG-2009 20:25:56; Bright; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;38960  
4; 1935.7; 12-AUG-2009 20:28:10; Bright; 50.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 100; 0;38960  
5; 2130.9; 12-AUG-2009 20:31:25; Bright; 45.0; 61; 8Eps Peg ; 2.10; 3900;occ; 90; 0;38960  
6; 2513.8; 12-AUG-2009 20:37:48; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;38960  
7; 3029.5; 12-AUG-2009 20:46:24; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38960  
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9; 3474.2; 12-AUG-2009 20:53:48; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38960  
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11; 4093.6; 12-AUG-2009 21:04:08; Bright; 47.5; 175; 39Del Per ; 3.01; 19400;occ; 95; 0;38960  
12; 4197.0; 12-AUG-2009 21:05:51; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;38960  
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14; 4681.2; 12-AUG-2009 21:13:55; Dark ; 47.0; 176; 23Zet Tau ; 3.02; 22000;occ; 94; 0;38960  
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16; 4981.3; 12-AUG-2009 21:18:55; Dark ; 46.5; 27; 24Gam Ori ; 1.64; 26000;occ; 93; 0;38960  
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4; 760.6; 12-AUG-2009 21:49:10; Dark ; 60.5; 84; Alp Phe ; 2.40; 4500;occ; 121; 0;38961  
5; 1231.7; 12-AUG-2009 21:57:02; Dark ; 55.0; 18; 24Alp PsA ; 1.17; 9700;occ; 110; 0;38961  
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7; 1802.1; 12-AUG-2009 22:06:32; Bright; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;38961  
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9; 2130.4; 12-AUG-2009 22:12:00; Bright; 68.0; 61; 8Eps Peg ; 2.10; 3900;occ; 136; 0;38961  
10; 2513.4; 12-AUG-2009 22:18:23; Bright; 38.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 76; 0;38961  
11; 3029.2; 12-AUG-2009 22:26:59; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38961  
12; 3341.9; 12-AUG-2009 22:32:12; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38961  
13; 3473.5; 12-AUG-2009 22:34:23; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;38961  
14; 3902.5; 12-AUG-2009 22:41:32; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;38961  
15; 4093.2; 12-AUG-2009 22:44:43; Bright; 51.5; 175; 39Del Per ; 3.01; 19400;occ; 103; 0;38961  
16; 4196.8; 12-AUG-2009 22:46:27; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;38961  
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18; 4681.3; 12-AUG-2009 22:54:31; Dark ; 45.5; 176; 23Zet Tau ; 3.02; 22000;occ; 91; 0;38961  
19; 4873.6; 12-AUG-2009 22:57:44; Dark ; 72.5; 13; 87Alp Tau ; 0.87; 3800;occ; 145; 0;38961  
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22; 5181.6; 12-AUG-2009 23:02:52; Dark ; 44.0; 125; 44Iot Ori ; 2.77; 30000;occ; 88; 0;38961  
23; 5269.0; 12-AUG-2009 23:04:19; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;38961

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3; 157.6; 12-AUG-2009 23:19:43; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;38962
4; 761.6; 12-AUG-2009 23:29:47; Dark ; 62.0; 84; Alp Phe ; 2.40; 4500;occ; 124; 0;38962
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6; 1587.2; 12-AUG-2009 23:43:33; Bright; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;38962
7; 1801.9; 12-AUG-2009 23:47:08; Bright; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;38962
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8; 3899.1; 13-AUG-2009 08:45:05; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;38967
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3; 1801.3; 13-AUG-2009 16:33:06; Bright; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;38972
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3; 1801.3; 13-AUG-2009 18:13:42; Bright; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;38973
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9; 1801.1; 14-AUG-2009 02:36:42; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;38978
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12; 2509.0; 14-AUG-2009 02:48:29; Bright; 38.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 76; 0;38978
13; 3024.0; 14-AUG-2009 02:57:04; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;38978
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5; 1801.0; 14-AUG-2009 05:57:53; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;38980
6; 1929.9; 14-AUG-2009 06:00:02; Bright; 49.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 99; 0;38980
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8; 2508.7; 14-AUG-2009 06:09:41; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;38980
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19; 5199.1; 15-AUG-2009 01:21:07; Dark ; 45.0; 125; 44Iot Ori ; 2.77; 30000;occ; 90; 0;38991
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8; 3891.4; 14-AUG-2009 08:13:20; Bright; 33.0; 160; 23Gam Per ; 2.93; 4700;occ; 66; 0;38981
9; 4086.0; 14-AUG-2009 08:16:34; Bright; 25.0; 175; 39Del Per ; 3.01; 19400;occ; 50; 0;38981
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4; 2122.0; 14-AUG-2009 11:05:02; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;38983
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6; 821.7; 17-AUG-2009 22:33:18; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39033
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4; 242.0; 18-AUG-2009 00:04:15; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;39034
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12; 814.6; 17-AUG-2009 07:27:48; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;39024
13; 1259.0; 17-AUG-2009 07:35:12; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;39024
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 5; 3424.7; 17-AUG-2009 11:32:30; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39026  
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7; 4370.4; 19-AUG-2009 09:04:25; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;39053
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13; 5241.3; 19-AUG-2009 10:59:32; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;39054
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3; 1799.3; 19-AUG-2009 18:25:10; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;39059
4; 1912.0; 19-AUG-2009 18:27:03; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;39059
5; 2099.5; 19-AUG-2009 18:30:10; Bright; 61.0; 61; 8Eps Peg ; 2.10; 3900;occ; 122; 0;39059

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8; 4188.1; 19-AUG-2009 19:04:59; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;39059
9; 4370.7; 19-AUG-2009 19:08:01; Bright; 60.0; 107; 37The Aur ; 2.65; 11000;occ; 120; 0;39059
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16; 5348.1; 19-AUG-2009 19:24:19; Dark ; 55.5; 7; 19Bet Ori ; 0.10; 14000;occ; 111; 0;39059
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6; 278.0; 20-AUG-2009 02:22:48; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39064
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11; 1911.0; 20-AUG-2009 02:50:01; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;39064
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13; 3261.8; 20-AUG-2009 03:12:32; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;39064
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12; 279.3; 20-AUG-2009 04:03:25; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39065
13; 847.2; 20-AUG-2009 04:12:53; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;39065
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3; 1799.3; 20-AUG-2009 21:14:45; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;39075
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 20; 5052.5; 20-AUG-2009 23:49:34; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;39076  
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 22; 5257.7; 20-AUG-2009 23:52:59; Dark ; 48.5; 125; 44Iot Ori ; 2.77; 30000;occ; 97; 0;39076  
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 13; 3386.1; 21-AUG-2009 01:02:23; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39077  
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11;-367.3; 23-AUG-2009 05:38:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39108
12; 333.0; 23-AUG-2009 05:50:40; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;39109
13; 879.9; 23-AUG-2009 05:59:47; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;39109
14; 1290.8; 23-AUG-2009 06:06:38; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;39109
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17; 2579.1; 23-AUG-2009 06:28:06; Bright; 50.0; 164; 44Eta Peg ; 2.95; 5400;occ; 100; 0;39109
18; 3228.7; 23-AUG-2009 06:38:56; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;39109
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12; 334.3; 23-AUG-2009 07:31:17; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39110
13; 880.8; 23-AUG-2009 07:40:24; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;39110
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 3; 2578.4; 23-AUG-2009 08:08:41; Bright; 49.0; 164; 44Eta Peg ; 2.95; 5400;occ; 98; 0;39110
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 6; 4181.2; 23-AUG-2009 08:35:24; Bright; 54.5; 6; 13Alp Aur ; 0.08; 3400;occ; 109; 0;39110
 7; 4373.8; 23-AUG-2009 08:38:37; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;39110
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11; 5196.3; 23-AUG-2009 08:52:19; Dark ; 55.0; 30; 46Eps Ori ; 1.69; 30000;occ; 110; 0;39110
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 4; 3227.3; 23-AUG-2009 10:00:06; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39111
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4; 3226.6; 23-AUG-2009 11:40:41; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;39112
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7; 4575.7; 23-AUG-2009 13:43:46; Dark ; 61.5; 28; 12Bet Tau ; 1.65; 15200;occ; 123; 0;39113
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13; 5201.0; 23-AUG-2009 18:55:59; Dark ; 53.0; 30; 46Eps Ori ; 1.69; 30000;occ; 106; 0;39116
14; 5290.6; 23-AUG-2009 18:57:29; Dark ; 51.0; 125; 44Iot Ori ; 2.77; 30000;occ; 102; 0;39116
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16; 5560.2; 23-AUG-2009 19:01:59; Dark ; 49.5; 139; 9Bet Lep ; 2.83; 5600;occ; 99; 0;39116
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18; 6378.9; 23-AUG-2009 19:15:37; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39116
19; 6921.8; 23-AUG-2009 19:24:40; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39116
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 3; 2087.4; 23-AUG-2009 19:44:42; Bright; 58.0; 61; 8Eps Peg ; 2.10; 3900;occ; 116; 0;39117
 4; 2573.0; 23-AUG-2009 19:52:47; Bright; 49.0; 164; 44Eta Peg ; 2.95; 5400;occ; 98; 0;39117
 5; 3222.8; 23-AUG-2009 20:03:37; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39117
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 8; 4374.0; 23-AUG-2009 20:22:48; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;39117
 9; 4576.3; 23-AUG-2009 20:26:11; Dark ; 58.0; 28; 12Bet Tau ; 1.65; 15200;occ; 116; 0;39117
10; 4751.8; 23-AUG-2009 20:29:06; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;39117
11; 4987.3; 23-AUG-2009 20:33:02; Dark ; 61.5; 14; 58Alp Ori ; 0.87; 3000;occ; 123; 0;39117
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13; 5201.7; 23-AUG-2009 20:36:36; Dark ; 56.0; 30; 46Eps Ori ; 1.69; 30000;occ; 112; 0;39117
14; 5291.3; 23-AUG-2009 20:38:06; Dark ; 52.0; 125; 44Iot Ori ; 2.77; 30000;occ; 104; 0;39117
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 9; 4652.8; 23-AUG-2009 22:08:03; Dark ; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;39118  
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 6; 345.4; 23-AUG-2009 22:36:51; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;39119  
 7; 887.2; 23-AUG-2009 22:45:53; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;39119  
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 9; 1903.2; 23-AUG-2009 23:02:49; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;39119  
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 11; 2571.4; 23-AUG-2009 23:13:57; Bright; 65.0; 164; 44Eta Peg ; 2.95; 5400;occ; 130; 0;39119  
 12; 3221.3; 23-AUG-2009 23:24:47; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;39119  
 13; 3354.8; 23-AUG-2009 23:27:01; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;39119  
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 16; 4653.1; 23-AUG-2009 23:48:39; Dark ; 55.5; 151; 13Mu Gem ; 2.89; 3000;occ; 111; 0;39119  
 17; 4752.4; 23-AUG-2009 23:50:18; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;39119  
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 19; 5085.9; 23-AUG-2009 23:55:52; Dark ; 59.0; 27; 24Gam Ori ; 1.64; 26000;occ; 118; 0;39119  
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 6; 1294.4; 24-AUG-2009 00:33:16; Dark ; 51.0; 18; 24Alp PsA ; 1.17; 9700;occ; 102; 0;39120  
 7; 1902.8; 24-AUG-2009 00:43:25; Bright; 61.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 122; 0;39120  
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 9; 2570.7; 24-AUG-2009 00:54:33; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;39120  
 10; 3220.7; 24-AUG-2009 01:05:23; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39120  
 11; 3354.0; 24-AUG-2009 01:07:36; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39120  
 12; 4179.3; 24-AUG-2009 01:21:21; Bright; 53.5; 6; 13Alp Aur ; 0.08; 3400;occ; 107; 0;39120  
 13; 4374.2; 24-AUG-2009 01:24:36; Bright; 41.5; 107; 37The Aur ; 2.65; 11000;occ; 83; 0;39120  
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 3; -626.4; 24-AUG-2009 01:41:51; Dark ; 62.0; 7; 19Bet Ori ; 0.10; 14000;occ; 124; 0;39120  
 4; -472.0; 24-AUG-2009 01:44:26; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;39120  
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 6; 347.8; 24-AUG-2009 01:58:06; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39121  
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13; 5406.5; 25-AUG-2009 12:54:23; Dark ; 62.0; 128; 67Bet Eri ; 2.78; 9700;occ; 124; 0;39141
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5; 4375.3; 25-AUG-2009 12:37:12; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;39141
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16; 6939.3; 25-AUG-2009 13:19:56; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39141
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7; 379.8; 25-AUG-2009 21:34:12; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39147
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1; -754.6; 26-AUG-2009 00:36:29; Dark ; 57.5; 30; 46Eps Ori ; 1.69; 30000;occ; 115; 105;39148  
 2; -689.9; 26-AUG-2009 00:37:34; Dark ; 51.0; 56; 53Kap Ori ; 2.07; 30000;occ; 102; 0;39148  
 3; -594.0; 26-AUG-2009 00:39:10; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;39148  
 4; -445.5; 26-AUG-2009 00:41:38; Dark ; 49.5; 139; 9Bet Lep ; 2.83; 5600;occ; 99; 0;39148  
 5; -329.5; 26-AUG-2009 00:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39148  
 6; 382.5; 26-AUG-2009 00:55:26; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39149  
 7; 908.0; 26-AUG-2009 01:04:12; Dark ; 59.0; 84; Alp Phe ; 2.40; 4500;occ; 118; 0;39149  
 8; 1304.2; 26-AUG-2009 01:10:48; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;39149  
 9; 1900.2; 26-AUG-2009 01:20:44; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;39149  
 10; 2082.9; 26-AUG-2009 01:23:47; Bright; 57.0; 61; 8Eps Peg ; 2.10; 3900;occ; 114; 0;39149  
 11; 2550.3; 26-AUG-2009 01:31:34; Bright; 45.5; 164; 44Eta Peg ; 2.95; 5400;occ; 91; 0;39149  
 12; 3200.4; 26-AUG-2009 01:42:24; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39149  
 13; 3332.8; 26-AUG-2009 01:44:36; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39149  
 14; 4174.6; 26-AUG-2009 01:58:38; Bright; 69.0; 6; 13Alp Aur ; 0.08; 3400;occ; 138; 0;39149  
 15; 4375.5; 26-AUG-2009 02:01:59; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39149  
 16; 4584.1; 26-AUG-2009 02:05:28; Dark ; 62.0; 28; 12Bet Tau ; 1.65; 15200;occ; 124; 0;39149  
 17; 4762.0; 26-AUG-2009 02:08:26; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;39149  
 18; 5006.9; 26-AUG-2009 02:12:31; Dark ; 65.5; 14; 58Alp Ori ; 0.87; 3000;occ; 131; 0;39149

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 5; -592.6; 26-AUG-2009 02:19:47; Dark ; 74.5; 7; 19Bet Ori ; 0.10; 14000;occ; 149; 0;39149  
 6; -444.4; 26-AUG-2009 02:22:15; Dark ; 50.0; 139; 9Bet Lep ; 2.83; 5600;occ; 100; 0;39149  
 7; -328.5; 26-AUG-2009 02:24:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39149  
 8; 383.6; 26-AUG-2009 02:36:03; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39150  
 9; 908.8; 26-AUG-2009 02:44:48; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;39150  
 10; 1304.5; 26-AUG-2009 02:51:24; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;39150  
 11; 1900.2; 26-AUG-2009 03:01:20; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;39150  
 12; 2083.0; 26-AUG-2009 03:04:22; Bright; 42.0; 61; 8Eps Peg ; 2.10; 3900;occ; 84; 0;39150  
 13; 2549.9; 26-AUG-2009 03:12:09; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;39150  
 14; 3199.6; 26-AUG-2009 03:22:59; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;39150  
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 2; -1660.4; 26-AUG-2009 03:42:35; Bright; 47.0; 107; 37The Aur ; 2.65; 11000;occ; 94; 0;39150  
 3; -1451.6; 26-AUG-2009 03:46:04; Dark ; 59.0; 28; 12Bet Tau ; 1.65; 15200;occ; 118; 0;39150  
 4; -1273.6; 26-AUG-2009 03:49:02; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;39150  
 5; -1028.4; 26-AUG-2009 03:53:07; Dark ; 69.0; 14; 58Alp Ori ; 0.87; 3000;occ; 138; 0;39150  
 6; -922.7; 26-AUG-2009 03:54:53; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;39150  
 7; -805.3; 26-AUG-2009 03:56:50; Dark ; 58.5; 30; 46Eps Ori ; 1.69; 30000;occ; 117; 0;39150  
 8; -688.3; 26-AUG-2009 03:58:47; Dark ; 52.5; 56; 53Kap Ori ; 2.07; 30000;occ; 105; 0;39150  
 9; -591.4; 26-AUG-2009 04:00:24; Dark ; 65.5; 7; 19Bet Ori ; 0.10; 14000;occ; 131; 0;39150  
 10; -443.5; 26-AUG-2009 04:02:52; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;39150  
 11; -327.5; 26-AUG-2009 04:04:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39150  
 12; 384.9; 26-AUG-2009 04:16:40; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39151  
 13; 909.5; 26-AUG-2009 04:25:25; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;39151  
 14; 1304.9; 26-AUG-2009 04:32:00; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39151  
 15; 1900.1; 26-AUG-2009 04:41:56; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;39151  
 16; 2082.8; 26-AUG-2009 04:44:58; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;39151  
 17; 2549.1; 26-AUG-2009 04:52:45; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;39151  
 18; 3199.0; 26-AUG-2009 05:03:35; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;39151  
 19; 3331.4; 26-AUG-2009 05:05:47; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39151

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3;-1451.3; 26-AUG-2009 05:26:40; Dark ; 60.0; 28; 12Bet Tau ; 1.65; 15200;occ; 120; 0;39151
4;-1273.4; 26-AUG-2009 05:29:38; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39151
5;-1027.8; 26-AUG-2009 05:33:44; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;39151
6; -921.9; 26-AUG-2009 05:35:30; Dark ; 65.0; 27; 24Gam Ori ; 1.64; 26000;occ; 130; 0;39151
7; -804.6; 26-AUG-2009 05:37:27; Dark ; 55.5; 30; 46Eps Ori ; 1.69; 30000;occ; 111; 0;39151
8; -687.6; 26-AUG-2009 05:39:24; Dark ; 51.5; 56; 53Kap Ori ; 2.07; 30000;occ; 103; 0;39151
9; -590.2; 26-AUG-2009 05:41:01; Dark ; 69.0; 7; 19Bet Ori ; 0.10; 14000;occ; 138; 0;39151
10; -442.6; 26-AUG-2009 05:43:29; Dark ; 49.0; 139; 9Bet Lep ; 2.83; 5600;occ; 98; 0;39151
11; -326.5; 26-AUG-2009 05:45:25; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39151
12; 386.1; 26-AUG-2009 05:57:18; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39152
13; 910.3; 26-AUG-2009 06:06:02; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39152
14; 1305.3; 26-AUG-2009 06:12:37; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39152
15; 1900.0; 26-AUG-2009 06:22:31; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;39152
16; 2082.7; 26-AUG-2009 06:25:34; Bright; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;39152
17; 2548.6; 26-AUG-2009 06:33:20; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;39152
18; 3198.4; 26-AUG-2009 06:44:10; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;39152
19; 3330.5; 26-AUG-2009 06:46:22; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;39152
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2; 1308.0; 26-AUG-2009 21:18:03; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;39161
3; 1899.2; 26-AUG-2009 21:27:54; Bright; 59.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 118; 0;39161
4; 2081.3; 26-AUG-2009 21:30:56; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;39161
5; 2542.6; 26-AUG-2009 21:38:38; Bright; 44.0; 164; 44Eta Peg ; 2.95; 5400;occ; 88; 0;39161
6; 3192.1; 26-AUG-2009 21:49:27; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;39161
7; 3323.8; 26-AUG-2009 21:51:39; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;39161
8; 4172.0; 26-AUG-2009 22:05:47; Bright; 58.5; 6; 13Alp Aur ; 0.08; 3400;occ; 117; 0;39161
9; 4376.0; 26-AUG-2009 22:09:11; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;39161
10; 4587.0; 26-AUG-2009 22:12:42; Dark ; 60.5; 28; 12Bet Tau ; 1.65; 15200;occ; 121; 0;39161
11; 4765.7; 26-AUG-2009 22:15:41; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;39161
12; 5014.5; 26-AUG-2009 22:19:49; Dark ; 61.0; 14; 58Alp Ori ; 0.87; 3000;occ; 122; 0;39161
13; 5123.5; 26-AUG-2009 22:21:38; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;39161
14; 5240.6; 26-AUG-2009 22:23:35; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39161
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3; -578.2; 26-AUG-2009 22:27:13; Dark ; 73.5; 7; 19Bet Ori ; 0.10; 14000;occ; 147; 0;39161
4; -432.5; 26-AUG-2009 22:29:38; Dark ; 54.0; 139; 9Bet Lep ; 2.83; 5600;occ; 108; 0;39161
5; -316.6; 26-AUG-2009 22:31:34; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39161
6; 398.3; 26-AUG-2009 22:43:29; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;39162
7; 916.8; 26-AUG-2009 22:52:08; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;39162
8; 1308.4; 26-AUG-2009 22:58:39; Dark ; 51.0; 18; 24Alp PsA ; 1.17; 9700;occ; 102; 0;39162
9; 1898.9; 26-AUG-2009 23:08:30; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;39162
10; 2081.3; 26-AUG-2009 23:11:32; Bright; 56.0; 61; 8Eps Peg ; 2.10; 3900;occ; 112; 0;39162
11; 2542.0; 26-AUG-2009 23:19:13; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;39162
12; 3191.4; 26-AUG-2009 23:30:02; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39162
13; 3323.1; 26-AUG-2009 23:32:14; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;39162
14; 4171.9; 26-AUG-2009 23:46:23; Bright; 58.5; 6; 13Alp Aur ; 0.08; 3400;occ; 117; 0;39162
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16; 4587.2; 26-AUG-2009 23:53:18; Dark ; 61.0; 28; 12Bet Tau ; 1.65; 15200;occ; 122; 0;39162
17; 4766.1; 26-AUG-2009 23:56:17; Dark ; 43.5; 44; 24Gam Gem ; 1.93; 11000;occ; 87; 0;39162
18; 5015.2; 27-AUG-2009 00:00:26; Dark ; 70.0; 14; 58Alp Ori ; 0.87; 3000;occ; 140; 0;39162
19; 5124.5; 27-AUG-2009 00:02:15; Dark ; 64.5; 27; 24Gam Ori ; 1.64; 26000;occ; 129; 0;39162
20; 5241.7; 27-AUG-2009 00:04:12; Dark ; 57.5; 30; 46Eps Ori ; 1.69; 30000;occ; 115; 0;39162
21; 5357.9; 27-AUG-2009 00:06:09; Dark ; 25.5; 56; 53Kap Ori ; 2.07; 30000;occ; 51; 0;39162
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3;-1451.1; 26-AUG-2009 07:07:16; Dark ; 58.5; 28; 12Bet Tau ; 1.65; 15200;occ; 117; 0;39152
4;-1273.1; 26-AUG-2009 07:10:14; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;39152
5;-1027.1; 26-AUG-2009 07:14:20; Dark ; 60.5; 14; 58Alp Ori ; 0.87; 3000;occ; 121; 0;39152
6; -920.8; 26-AUG-2009 07:16:07; Dark ; 59.5; 27; 24Gam Ori ; 1.64; 26000;occ; 119; 0;39152
7; -803.5; 26-AUG-2009 07:18:04; Dark ; 59.5; 30; 46Eps Ori ; 1.69; 30000;occ; 119; 0;39152
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12; 387.5; 26-AUG-2009 07:37:55; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;39153

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3; 2547.8; 26-AUG-2009 08:13:55; Bright; 47.5; 164; 44Eta Peg ; 2.95; 5400;occ; 95; 0;39153
4; 3197.8; 26-AUG-2009 08:24:45; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39153
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16; 5711.4; 26-AUG-2009 09:06:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39153
17; 6424.4; 26-AUG-2009 09:18:32; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39153
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3; 2547.0; 26-AUG-2009 09:54:30; Bright; 45.5; 164; 44Eta Peg ; 2.95; 5400;occ; 91; 0;39154
4; 3196.8; 26-AUG-2009 10:05:20; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;39154
5; 3329.1; 26-AUG-2009 10:07:32; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;39154
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7; 4375.7; 26-AUG-2009 10:24:59; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;39154
8; 4585.3; 26-AUG-2009 10:28:29; Dark ; 58.0; 28; 12Bet Tau ; 1.65; 15200;occ; 116; 0;39154
9; 4763.6; 26-AUG-2009 10:31:27; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;39154
10; 5010.0; 26-AUG-2009 10:35:33; Dark ; 69.0; 14; 58Alp Ori ; 0.87; 3000;occ; 138; 0;39154
11; 5116.9; 26-AUG-2009 10:37:20; Dark ; 59.0; 27; 24Gam Ori ; 1.64; 26000;occ; 118; 0;39154
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13; 5350.9; 26-AUG-2009 10:41:14; Dark ; 52.0; 56; 53Kap Ori ; 2.07; 30000;occ; 104; 0;39154
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3; 3196.0; 26-AUG-2009 11:45:55; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;39155
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6; 4375.7; 26-AUG-2009 12:05:35; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;39155
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 4; 3195.3; 26-AUG-2009 13:26:30; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;39156  
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5; -1264.3; 28-AUG-2009 02:45:57; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;39178
6; -1009.9; 28-AUG-2009 02:50:11; Dark ; 68.5; 14; 58Alp Ori ; 0.87; 3000;occ; 137; 0;39178
7; -778.6; 28-AUG-2009 02:54:03; Dark ; 58.5; 30; 46Eps Ori ; 1.69; 30000;occ; 117; 0;39178
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9; -415.0; 28-AUG-2009 03:00:06; Dark ; 50.0; 139; 9Bet Lep ; 2.83; 5600;occ; 100; 0;39178
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3; 1313.8; 28-AUG-2009 05:09:31; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;39180
4; 1898.0; 28-AUG-2009 05:19:15; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;39180
5; 2282.6; 28-AUG-2009 05:25:40; Bright; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;39180
6; 2530.8; 28-AUG-2009 05:29:48; Bright; 67.0; 164; 44Eta Peg ; 2.95; 5400;occ; 134; 0;39180

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4; 421.7; 28-AUG-2009 06:35:15; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39181
5; 929.2; 28-AUG-2009 06:43:43; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;39181
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3; 2529.7; 28-AUG-2009 08:50:59; Bright; 45.5; 164; 44Eta Peg ; 2.95; 5400;occ; 91; 0;39182
4; 3177.8; 28-AUG-2009 09:01:47; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;39182
5; 3308.7; 28-AUG-2009 09:03:58; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;39182
6; 4168.1; 28-AUG-2009 09:18:17; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39182
7; 4376.9; 28-AUG-2009 09:21:46; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;39182
8; 4592.6; 28-AUG-2009 09:25:22; Dark ; 33.0; 28; 12Bet Tau ; 1.65; 15200;occ; 66; 0;39182
9; 4670.7; 28-AUG-2009 09:26:40; Dark ; 55.5; 151; 13Mu Gem ; 2.89; 3000;occ; 111; 0;39182
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11; 5028.8; 28-AUG-2009 09:32:38; Dark ; 72.0; 14; 58Alp Ori ; 0.87; 3000;occ; 144; 0;39182
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15; 5625.0; 28-AUG-2009 09:42:34; Dark ; 53.0; 139; 9Bet Lep ; 2.83; 5600;occ; 106; 0;39182
16; 5741.0; 28-AUG-2009 09:44:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39182
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3; 2529.1; 28-AUG-2009 10:31:34; Bright; 45.0; 164; 44Eta Peg ; 2.95; 5400;occ; 90; 0;39183
4; 3177.0; 28-AUG-2009 10:42:22; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39183
5; 3308.0; 28-AUG-2009 10:44:33; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;39183
6; 4167.9; 28-AUG-2009 10:58:53; Bright; 56.0; 6; 13Alp Aur ; 0.08; 3400;occ; 112; 0;39183
7; 4377.0; 28-AUG-2009 11:02:22; Bright; 45.5; 107; 37The Aur ; 2.65; 11000;occ; 91; 0;39183
8; 4592.9; 28-AUG-2009 11:05:58; Dark ; 33.0; 28; 12Bet Tau ; 1.65; 15200;occ; 66; 0;39183
9; 4670.9; 28-AUG-2009 11:07:16; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39183
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13; 5376.9; 28-AUG-2009 11:19:02; Dark ; 52.0; 56; 53Kap Ori ; 2.07; 30000;occ; 104; 0;39183
14; 5486.5; 28-AUG-2009 11:20:52; Dark ; 73.0; 7; 19Bet Ori ; 0.10; 14000;occ; 146; 0;39183
15; 5626.2; 28-AUG-2009 11:23:11; Dark ; 51.0; 139; 9Bet Lep ; 2.83; 5600;occ; 102; 0;39183
16; 5742.0; 28-AUG-2009 11:25:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39183
17; 6461.3; 28-AUG-2009 11:37:06; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39183
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3; 2528.5; 28-AUG-2009 12:12:10; Bright; 44.5; 164; 44Eta Peg ; 2.95; 5400;occ; 89; 0;39184
4; 3176.4; 28-AUG-2009 12:22:57; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;39184
5; 3307.3; 28-AUG-2009 12:25:08; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;39184
6; 4167.6; 28-AUG-2009 12:39:29; Bright; 58.0; 6; 13Alp Aur ; 0.08; 3400;occ; 116; 0;39184
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8; 4593.1; 28-AUG-2009 12:46:34; Dark ; 25.0; 28; 12Bet Tau ; 1.65; 15200;occ; 50; 0;39184
9; 4671.2; 28-AUG-2009 12:47:52; Dark ; 53.0; 151; 13Mu Gem ; 2.89; 3000;occ; 106; 0;39184
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17; 6462.4; 28-AUG-2009 13:17:43; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39184
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4; 3157.6; 30-AUG-2009 11:19:24; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;39212
5; 3287.2; 30-AUG-2009 11:21:34; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39212
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14; 5773.3; 30-AUG-2009 12:03:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39212
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 4; 2510.7; 30-AUG-2009 17:51:01; Bright; 44.0; 164; 44Eta Peg ; 2.95; 5400;occ; 88; 0;39216  
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9; -251.4; 31-AUG-2009 04:49:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39222
10; 472.9; 31-AUG-2009 05:01:15; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39223
11; 955.2; 31-AUG-2009 05:09:17; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39223
12; 1326.4; 31-AUG-2009 05:15:28; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39223
13; 1895.8; 31-AUG-2009 05:24:58; Bright; 56.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 112; 0;39223
14; 2256.4; 31-AUG-2009 05:30:58; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39223
15; 2507.3; 31-AUG-2009 05:35:09; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39223
16; 3150.6; 31-AUG-2009 05:45:53; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39223

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3; 2502.7; 31-AUG-2009 20:40:28; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39232
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8; 4686.1; 31-AUG-2009 21:16:51; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39232
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6; 961.1; 31-AUG-2009 21:55:22; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;39233
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16; 5067.4; 31-AUG-2009 23:03:49; Dark ; 74.5; 14; 58Alp Ori ; 0.87; 3000;occ; 149; 0;39233
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4; 486.3; 31-AUG-2009 23:28:03; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39234
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6; 1329.5; 31-AUG-2009 23:42:07; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;39234
7; 2250.3; 31-AUG-2009 23:57:27; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39234
8; 2501.6; 01-SEP-2009 00:01:39; Bright; 44.0; 164; 44Eta Peg ; 2.95; 5400;occ; 88; 0;39234
9; 3143.7; 01-SEP-2009 00:12:21; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39234
10; 3271.6; 01-SEP-2009 00:14:29; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;39234
11; 4155.9; 01-SEP-2009 00:29:13; Bright; 64.0; 6; 13Alp Aur ; 0.08; 3400;occ; 128; 0;39234
12; 4378.0; 01-SEP-2009 00:32:55; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39234
13; 4686.7; 01-SEP-2009 00:38:04; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39234
14; 4792.4; 01-SEP-2009 00:39:49; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39234
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3; -1352.6; 31-AUG-2009 06:11:25; Dark ; 52.0; 151; 13Mu Gem ; 2.89; 3000;occ; 104; 0;39223
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5; -976.6; 31-AUG-2009 06:17:41; Dark ; 73.5; 14; 58Alp Ori ; 0.87; 3000;occ; 147; 0;39223
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10; 474.1; 31-AUG-2009 06:41:52; Dark ; 56.5; 157; The1Eri ; 2.91; 9300;occ; 113; 0;39224
11; 955.8; 31-AUG-2009 06:49:54; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39224
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3; 2506.7; 31-AUG-2009 07:15:45; Bright; 64.0; 164; 44Eta Peg ; 2.95; 5400;occ; 128; 0;39224
4; 3149.9; 31-AUG-2009 07:26:28; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39224
5; 3278.8; 31-AUG-2009 07:28:37; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;39224
6; 4158.4; 31-AUG-2009 07:43:16; Bright; 63.5; 6; 13Alp Aur ; 0.08; 3400;occ; 127; 0;39224
7; 4378.1; 31-AUG-2009 07:46:56; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39224

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 10; 5060.4; 31-AUG-2009 07:58:18; Dark ; 77.0; 14; 58Alp Ori ; 0.87; 3000;occ; 154; 0;39224  
 11; 5307.1; 31-AUG-2009 08:02:25; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0;39224  
 12; 5442.8; 31-AUG-2009 08:04:41; Dark ; 46.0; 47; 2Bet CMA ; 1.98; 28000;occ; 92; 0;39224  
 13; 5610.4; 31-AUG-2009 08:07:28; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;39224  
 14; 5786.8; 31-AUG-2009 08:10:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39224  
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 3; 2506.1; 31-AUG-2009 08:56:20; Bright; 64.0; 164; 44Eta Peg ; 2.95; 5400;occ; 128; 0;39225  
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 6; 4158.2; 31-AUG-2009 09:23:52; Bright; 59.0; 6; 13Alp Aur ; 0.08; 3400;occ; 118; 0;39225  
 7; 4378.1; 31-AUG-2009 09:27:32; Bright; 50.0; 107; 37The Aur ; 2.65; 11000;occ; 100; 0;39225  
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 9; 4789.1; 31-AUG-2009 11:14:59; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;39226  
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 13; 5612.7; 31-AUG-2009 11:28:42; Dark ; 55.5; 101; 11Alp Lep ; 2.58; 7000;occ; 111; 0;39226  
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 16; 6993.6; 31-AUG-2009 11:51:43; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;39226  
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 3; 2505.1; 31-AUG-2009 12:17:31; Bright; 41.0; 164; 44Eta Peg ; 2.95; 5400;occ; 82; 0;39227  
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 5; 3276.6; 31-AUG-2009 12:30:22; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39227  
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 3; 3147.5; 31-AUG-2009 14:08:49; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39228



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7; 4684.9; 31-AUG-2009 14:34:26; Dark ; 56.5; 151; 13Mu Gem ; 2.89; 3000;occ; 113; 0;39228
8; 4790.1; 31-AUG-2009 14:36:12; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;39228
9; 5063.8; 31-AUG-2009 14:40:45; Dark ; 70.0; 14; 58Alp Ori ; 0.87; 3000;occ; 140; 0;39228
10; 5311.7; 31-AUG-2009 14:44:53; Dark ; 65.0; 30; 46Eps Ori ; 1.69; 30000;occ; 130; 0;39228
11; 5445.8; 31-AUG-2009 14:47:07; Dark ; 46.5; 47; 2Bet CMA ; 1.98; 28000;occ; 93; 0;39228
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