

# GOMOS Daily Report 12-JUN-2008

## 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	14JUN2008 05:32:23
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (12JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

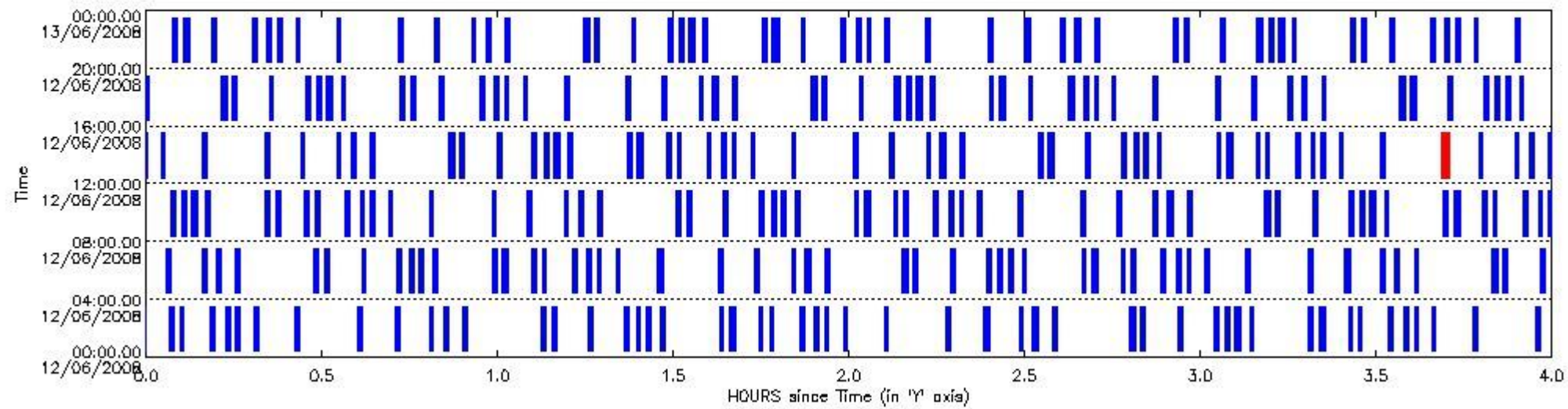
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

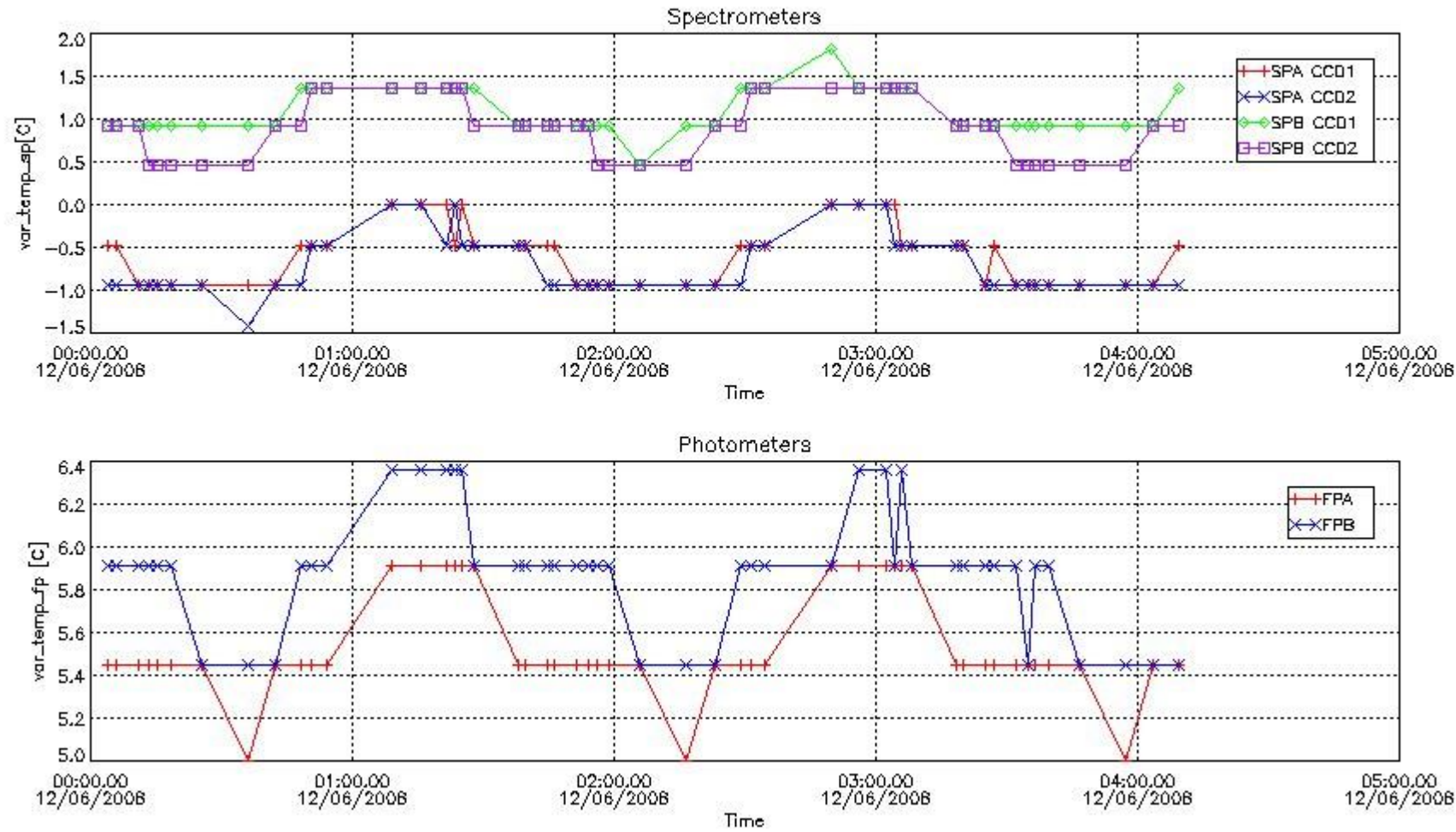
UTC start time	Star name	Star ID	Orbit
12-JUN-2008 15:41:16	5AlpCep	89	32859

### 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_1PNPDE20080612_000402_000000402069_00231_32850_8359.N1	12-JUN-2008 00:04:02	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	32850	No
2	GOM_TRA_1PNPDE20080612_000547_000000382069_00231_32850_8360.N1	12-JUN-2008 00:05:47	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	32850	No
3	GOM_TRA_1PNPDE20080612_001056_000000462069_00231_32850_8361.N1	12-JUN-2008 00:10:56	Bright	45.500	126	60Bet Oph	2.7700	4250.0	91	32850	No
4	GOM_TRA_1PNPDE20080612_001331_000000482069_00231_32850_8362.N1	12-JUN-2008 00:13:31	Bright	47.500	59	55Alp Oph	2.0800	8900.0	95	32850	No
5	GOM_TRA_1PNPDE20080612_001517_000000372069_00231_32850_8363.N1	12-JUN-2008 00:15:17	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32850	No
6	GOM_TRA_1PNPDE20080612_001824_000000392069_00231_32850_8364.N1	12-JUN-2008 00:18:24	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	32850	No
7	GOM_TRA_1PNPDE20080612_002523_000000412069_00231_32850_8365.N1	12-JUN-2008 00:25:23	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	32850	No
8	GOM_TRA_1PNPDE20080612_003601_000000472069_00231_32850_8366.N1	12-JUN-2008 00:36:01	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	32850	No
9	GOM_TRA_1PNPDE20080612_004221_000000582069_00231_32850_8367.N1	12-JUN-2008 00:42:21	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	32850	No
10	GOM_TRA_1PNPDE20080612_004822_000000382069_00231_32850_8368.N1	12-JUN-2008 00:48:22	Bright	37.500	73	57Gam1And	2.2600	13100.	75	32850	No

11	GOM_TRA_1PNPDE20080612_005042_000000572069_00231_32850_8369.N1	12-JUN-2008 00:50:42	Twilight	56.500	53	43Bet And	2.0480	3300.0	113	32850	No
12	GOM_TRA_1PNPDE20080612_005404_000000472069_00231_32850_8370.N1	12-JUN-2008 00:54:04	Twilight	47.000	50	13Alp Ari	2.0070	4250.0	94	32850	No
13	GOM_TRA_1PNPDE20080612_010908_000000552069_00231_32850_8494.N1	12-JUN-2008 01:09:08	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	32850	No
14	GOM_TRA_1PNPDE20080612_011532_000000432069_00231_32850_8495.N1	12-JUN-2008 01:15:32	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	32850	No
15	GOM_TRA_1PNPDE20080612_012135_000000492069_00232_32851_8496.N1	12-JUN-2008 01:21:35	Dark	49.000	63	Bet Gru	2.1500	2800.0	98	32851	No
16	GOM_TRA_1PNPDE20080612_012337_000000482069_00232_32851_8497.N1	12-JUN-2008 01:23:37	Dark	47.500	31	Alp Gru	1.7340	15200.	95	32851	No
17	GOM_TRA_1PNPDE20080612_012514_000000562069_00232_32851_8498.N1	12-JUN-2008 01:25:14	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	32851	No
18	GOM_TRA_1PNPDE20080612_012745_000000432069_00232_32851_8499.N1	12-JUN-2008 01:27:45	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32851	No
19	GOM_TRA_1PNPDE20080612_013753_000000422069_00232_32851_8500.N1	12-JUN-2008 01:37:53	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	32851	No
20	GOM_TRA_1PNPDE20080612_013935_000000572069_00232_32851_8501.N1	12-JUN-2008 01:39:35	Bright	57.000	57	34Sig Sgr	2.0660	26000.	114	32851	No
21	GOM_TRA_1PNPDE20080612_014438_000000402069_00232_32851_8502.N1	12-JUN-2008 01:44:38	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	32851	No
22	GOM_TRA_1PNPDE20080612_014623_000000382069_00232_32851_8503.N1	12-JUN-2008 01:46:23	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	32851	No
23	GOM_TRA_1PNPDE20080612_015131_000000462069_00232_32851_8504.N1	12-JUN-2008 01:51:31	Bright	45.500	126	60Bet Oph	2.7700	4250.0	91	32851	No
24	GOM_TRA_1PNPDE20080612_015406_000000442069_00232_32851_8505.N1	12-JUN-2008 01:54:06	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	32851	No
25	GOM_TRA_1PNPDE20080612_015553_000000362069_00232_32851_8506.N1	12-JUN-2008 01:55:53	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	32851	No
26	GOM_TRA_1PNPDE20080612_015900_000000382069_00232_32851_8507.N1	12-JUN-2008 01:59:00	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	32851	No
27	GOM_TRA_1PNPDE20080612_020559_000000412069_00232_32851_8508.N1	12-JUN-2008 02:05:59	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	32851	No
28	GOM_TRA_1PNPDE20080612_021637_000000472069_00232_32851_8509.N1	12-JUN-2008 02:16:37	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32851	No
29	GOM_TRA_1PNPDE20080612_022257_000000582069_00232_32851_8725.N1	12-JUN-2008 02:22:57	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	32851	No
30	GOM_TRA_1PNPDE20080612_022858_000000392069_00232_32851_8726.N1	12-JUN-2008 02:28:58	Bright	39.000	73	57Gam1And	2.2600	13100.	78	32851	No
31	GOM_TRA_1PNPDE20080612_023118_000000532069_00232_32851_8727.N1	12-JUN-2008 02:31:18	Twilight	53.000	53	43Bet And	2.0480	3300.0	106	32851	No
32	GOM_TRA_1PNPDE20080612_023440_000000472069_00232_32851_8728.N1	12-JUN-2008 02:34:40	Twilight	46.500	50	13Alp Ari	2.0070	4250.0	93	32851	No
33	GOM_TRA_1PNPDE20080612_024945_000000522069_00232_32851_8729.N1	12-JUN-2008 02:49:45	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	32851	No
34	GOM_TRA_1PNPDE20080612_025609_000000422069_00232_32851_8730.N1	12-JUN-2008 02:56:09	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	32851	No
35	GOM_TRA_1PNPDE20080612_030212_000000502069_00233_32852_8731.N1	12-JUN-2008 03:02:12	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	32852	No
36	GOM_TRA_1PNPDE20080612_030414_000000472069_00233_32852_8732.N1	12-JUN-2008 03:04:14	Dark	47.000	31	Alp Gru	1.7340	15200.	94	32852	No
37	GOM_TRA_1PNPDE20080612_030551_000000582069_00233_32852_8733.N1	12-JUN-2008 03:05:51	Straylight	57.500	172	Gam Gru	3.0030	13100.	115	32852	No
38	GOM_TRA_1PNPDE20080612_030822_000000422069_00233_32852_8734.N1	12-JUN-2008 03:08:22	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	32852	No
39	GOM_TRA_1PNPDE20080612_031830_000000462069_00233_32852_8735.N1	12-JUN-2008 03:18:30	Twilight	46.000	25	35Lam Sco	1.6200	28000.	92	32852	No
40	GOM_TRA_1PNPDE20080612_032011_000000742069_00233_32852_8736.N1	12-JUN-2008 03:20:11	Bright	74.000	57	34Sig Sgr	2.0660	26000.	148	32852	No
41	GOM_TRA_1PNPDE20080612_032514_000000382069_00233_32852_8737.N1	12-JUN-2008 03:25:14	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	32852	No
42	GOM_TRA_1PNPDE20080612_032700_000000362069_00233_32852_8738.N1	12-JUN-2008 03:27:00	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32852	No
43	GOM_TRA_1PNPDE20080612_033207_000000452069_00233_32852_8739.N1	12-JUN-2008 03:32:07	Bright	44.500	126	60Bet Oph	2.7700	4250.0	89	32852	No
44	GOM_TRA_1PNPDE20080612_033442_000000552069_00233_32852_8740.N1	12-JUN-2008 03:34:42	Bright	55.000	59	55Alp Oph	2.0800	8900.0	110	32852	No
45	GOM_TRA_1PNPDE20080612_033628_000000372069_00233_32852_8741.N1	12-JUN-2008 03:36:28	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32852	No
46	GOM_TRA_1PNPDE20080612_033936_000000372069_00233_32852_8742.N1	12-JUN-2008 03:39:36	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	32852	No
47	GOM_TRA_1PNPDE20080612_034634_000000402069_00233_32852_8743.N1	12-JUN-2008 03:46:34	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	32852	No
48	GOM_TRA_1PNPDE20080612_035712_000000472069_00233_32852_8744.N1	12-JUN-2008 03:57:12	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32852	No
49	GOM_TRA_1PNPDE20080612_040320_000000462069_00233_32852_8884.N1	12-JUN-2008 04:03:20	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	32852	No
50	GOM_TRA_1PNPDE20080612_040934_000000392069_00233_32852_8885.N1	12-JUN-2008 04:09:34	Bright	38.500	73	57Gam1And	2.2600	13100.	77	32852	No

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



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

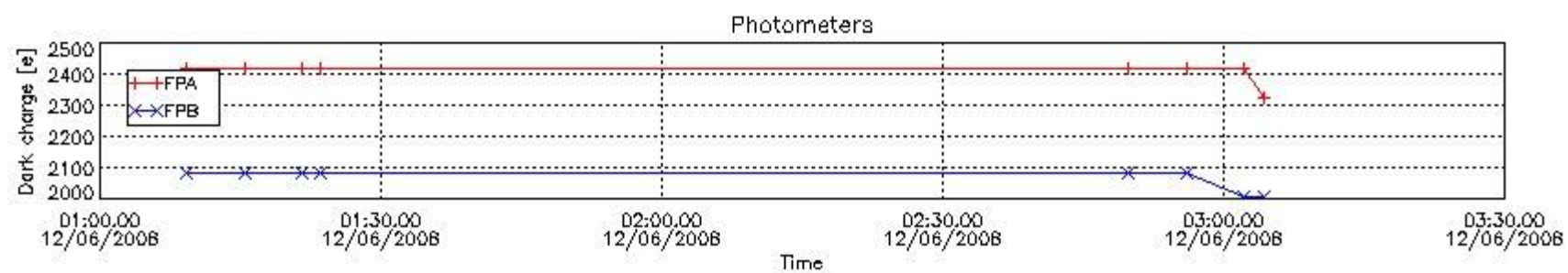
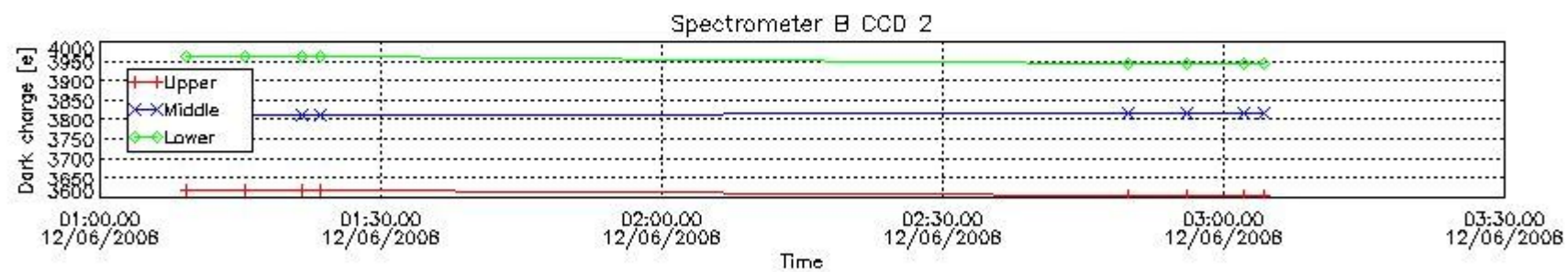
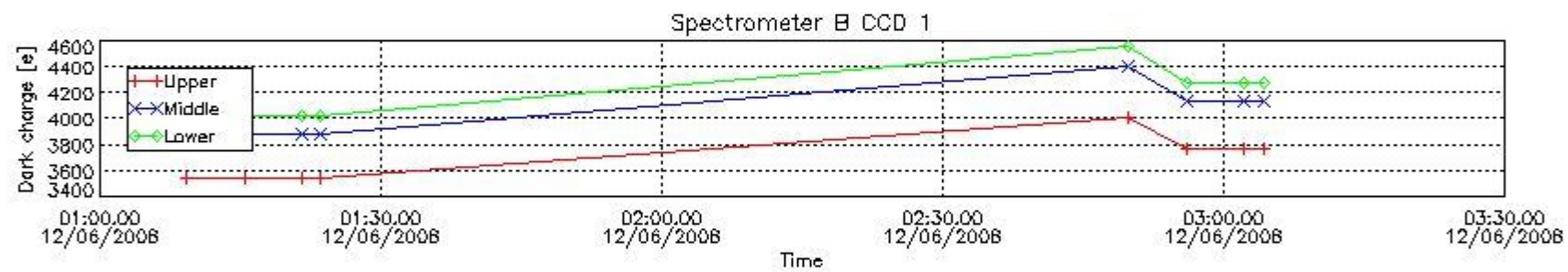
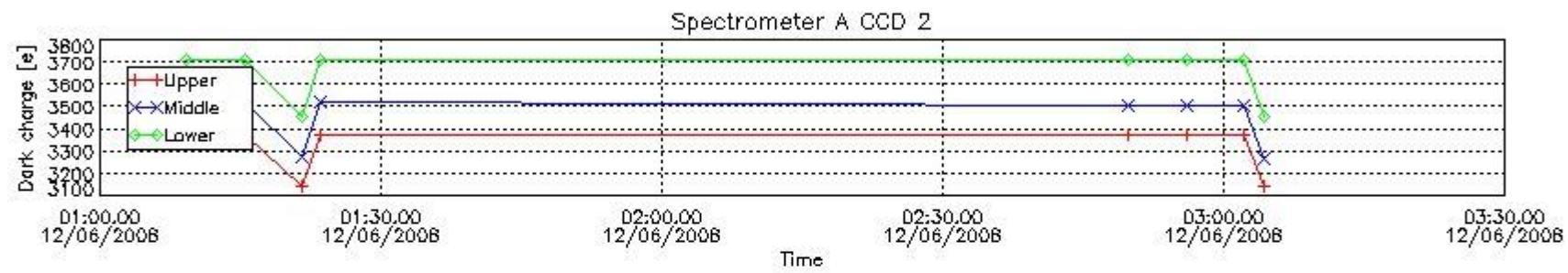
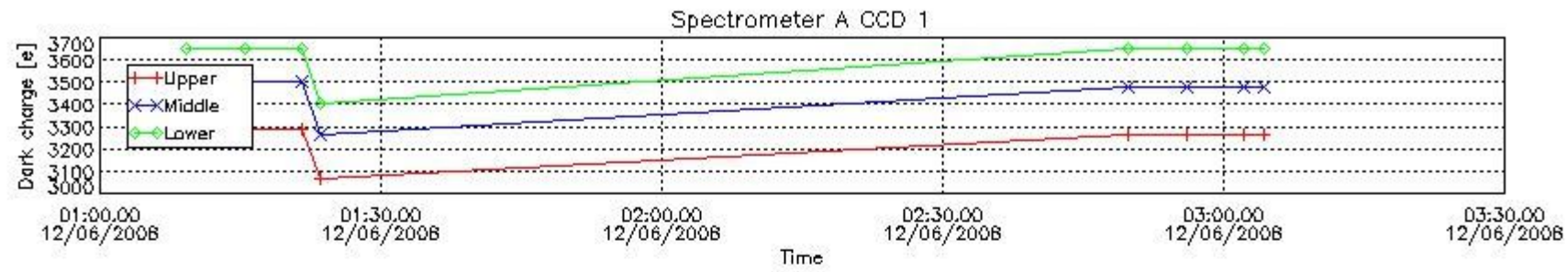
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

##### 4.1 All products used the DSA observation for the DC computation

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





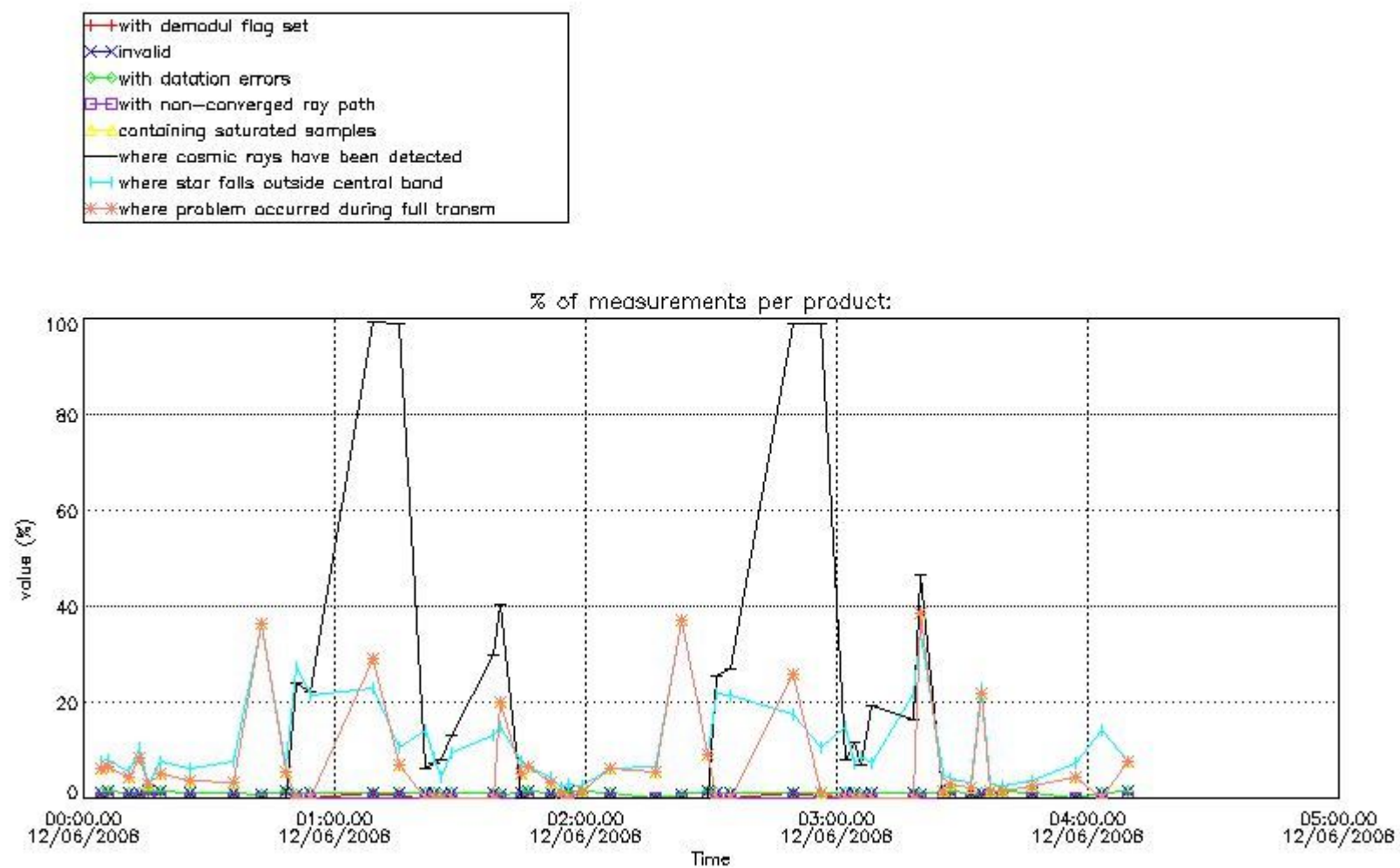
## 5. Demodulation flag and quality information monitoring

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

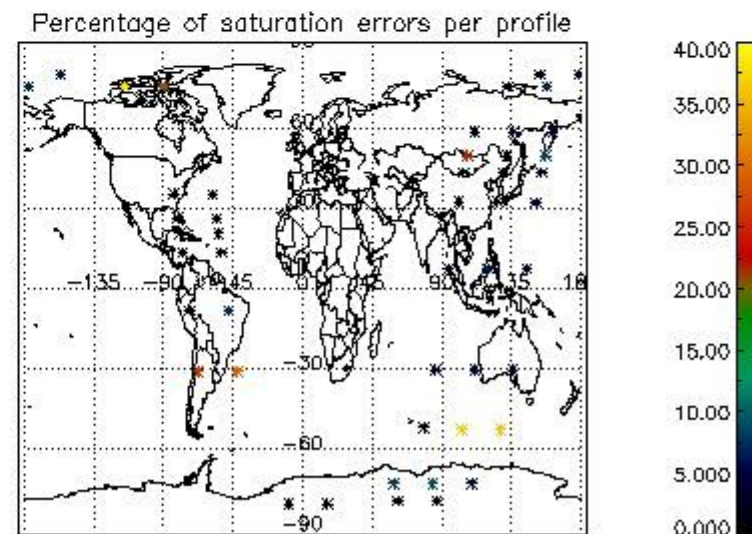
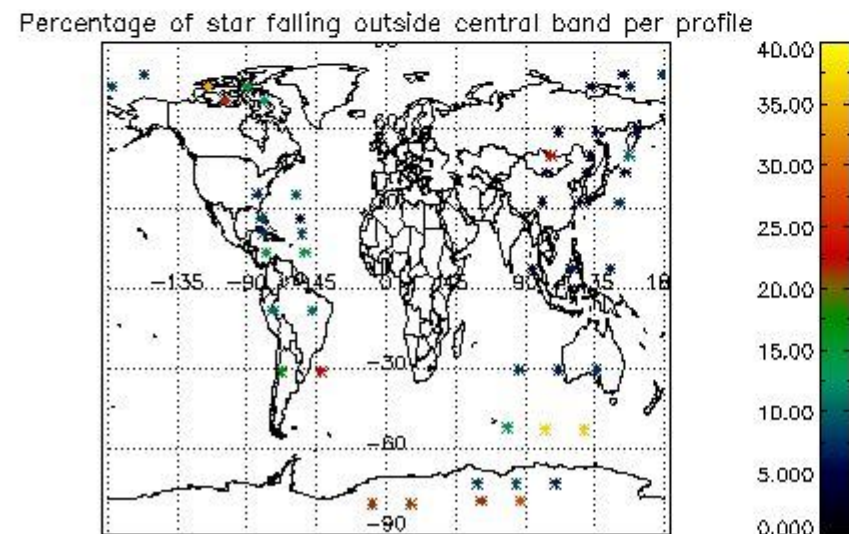
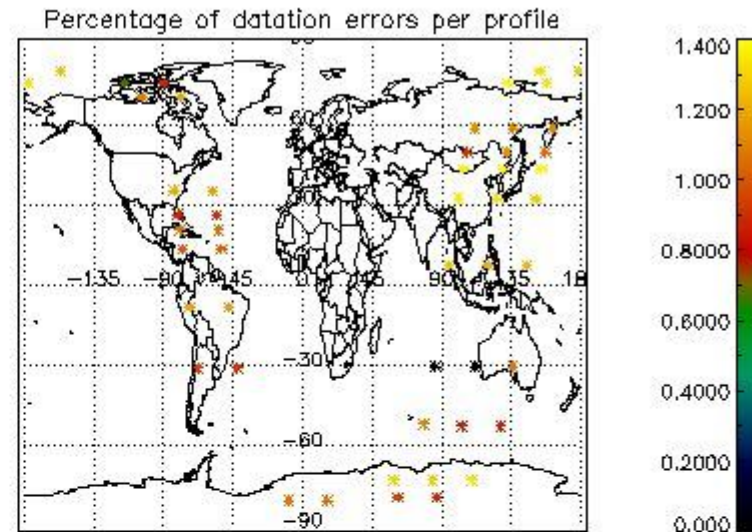
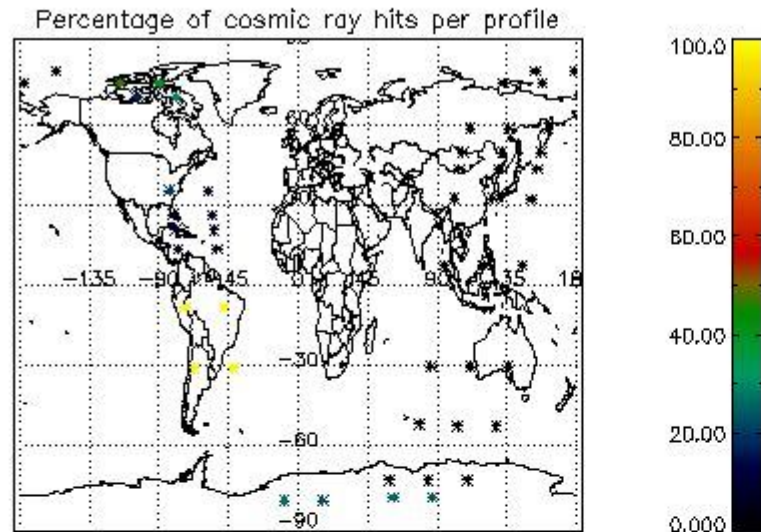
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



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

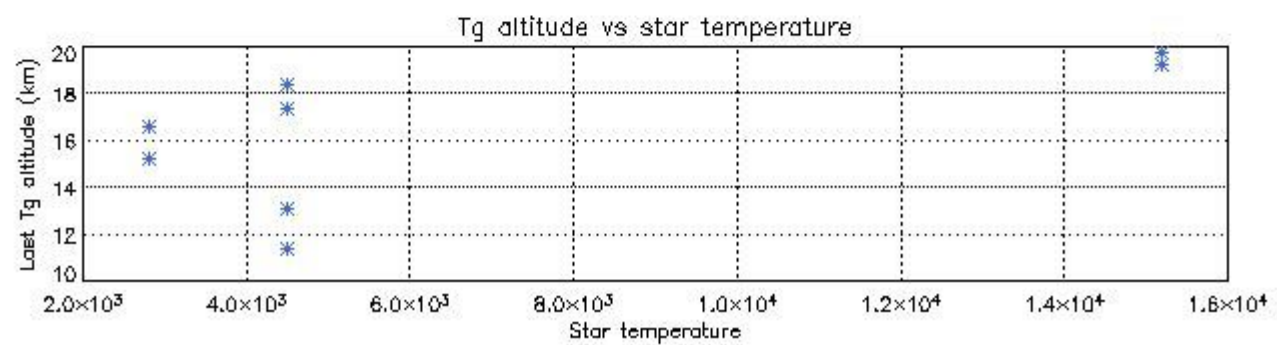
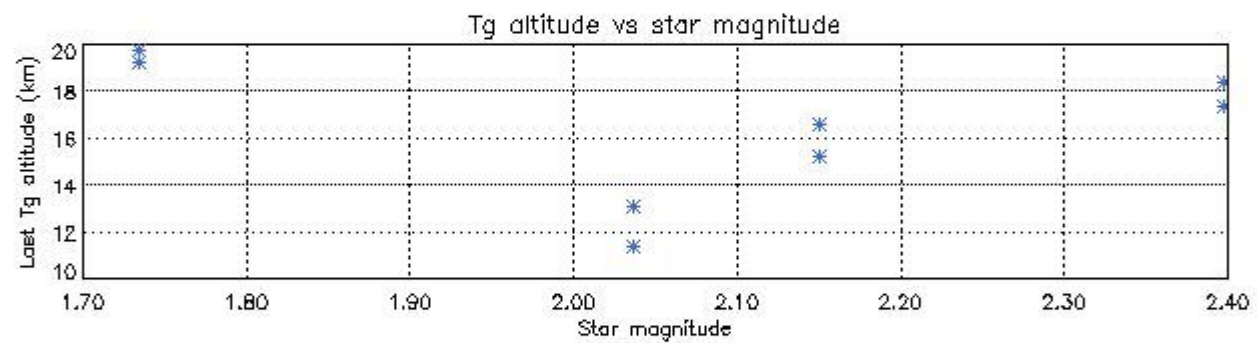
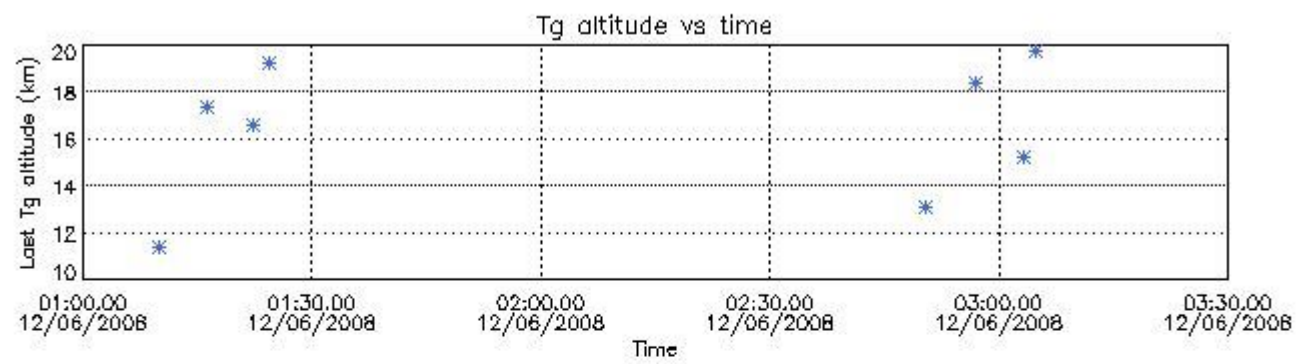
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.359	19.253	10.661
St. deviation:	2.9792	5.7404	0.14058
Maximum:	19.755	24.536	10.761
Minimum:	11.358	3.7460	10.562
Number of data:	8.0000	32.000	2.0000

### 6.2 Plot for DARK limb products



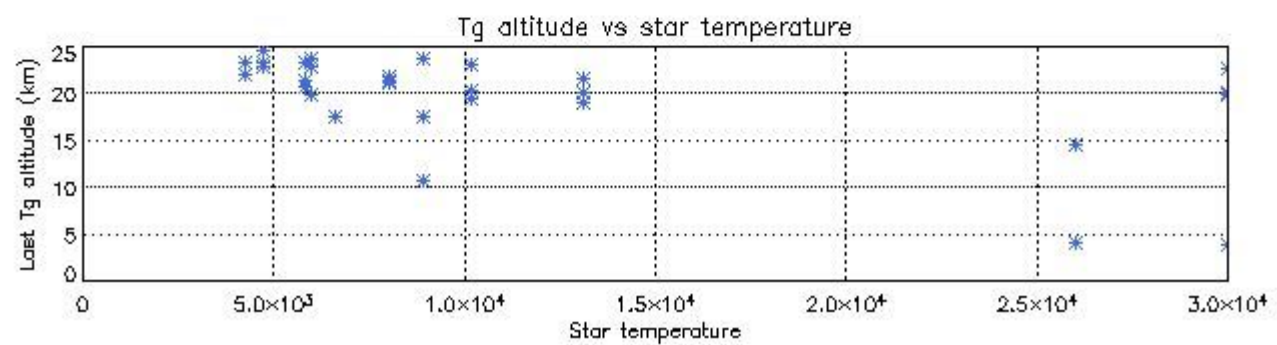
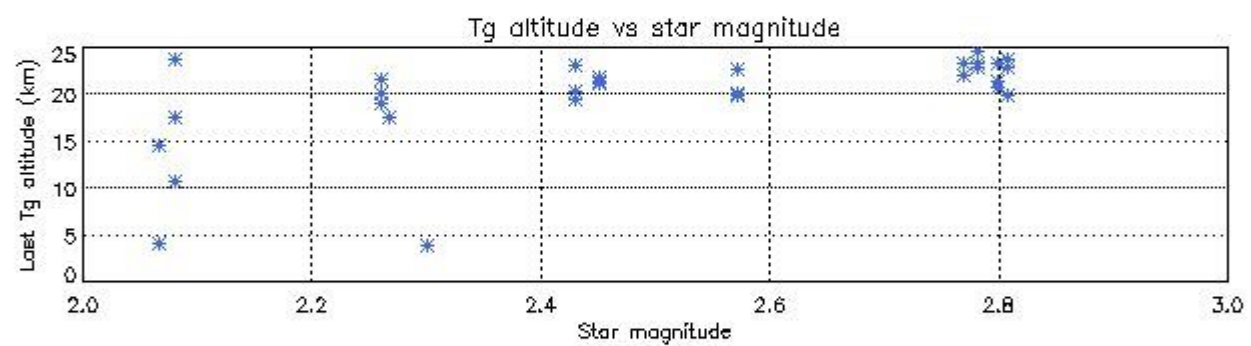
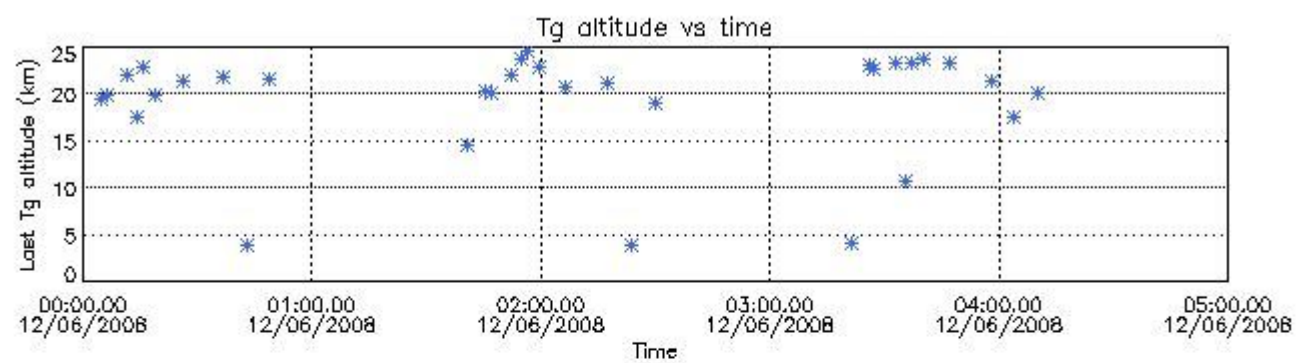
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

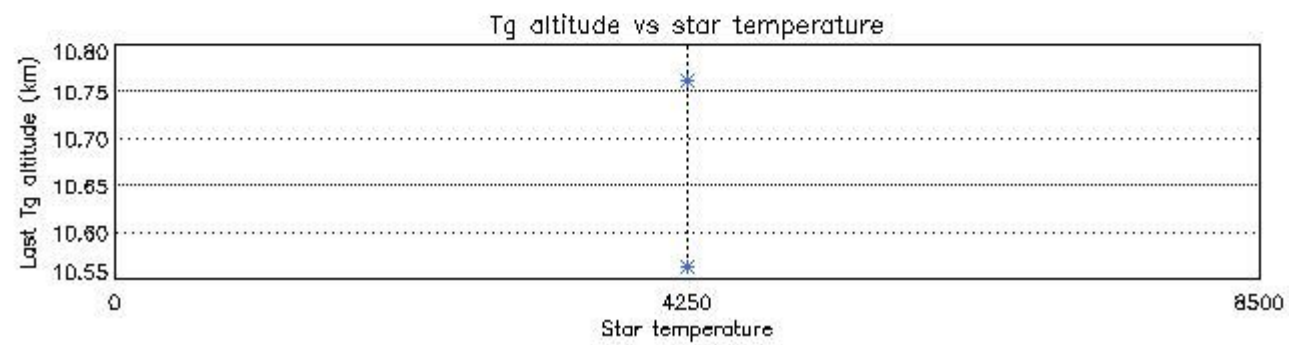
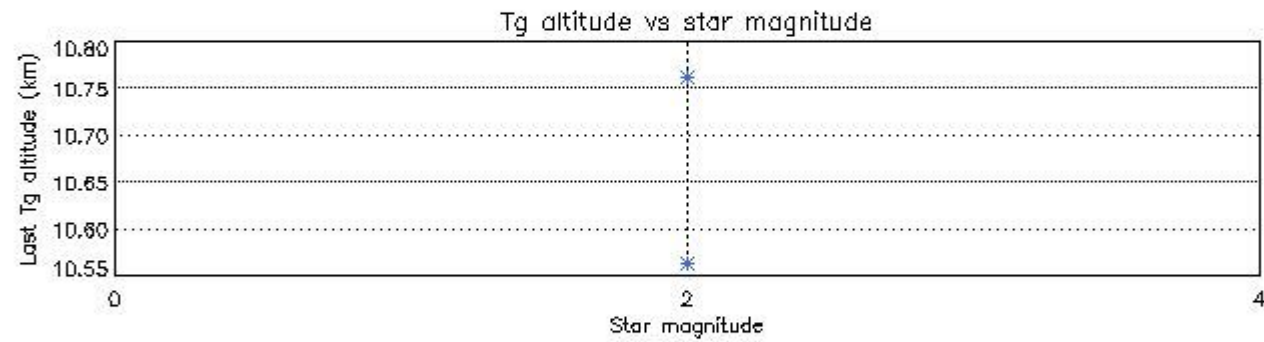
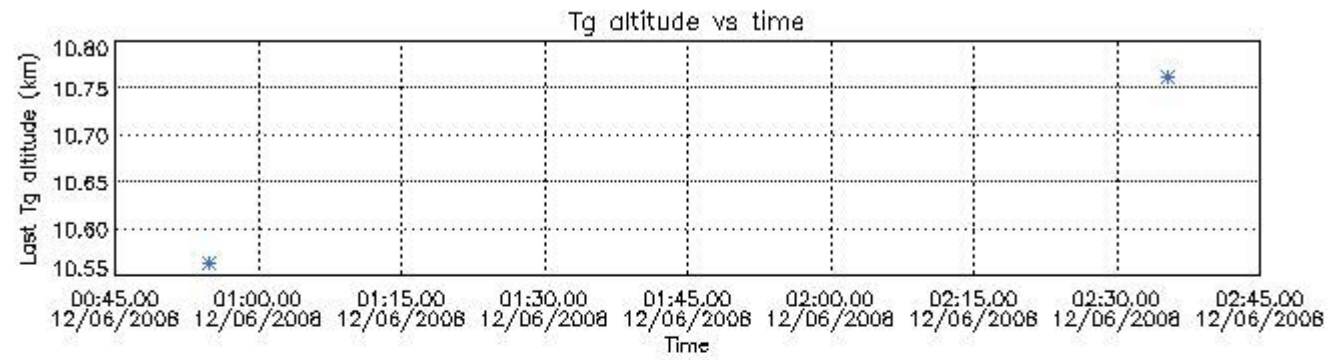


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

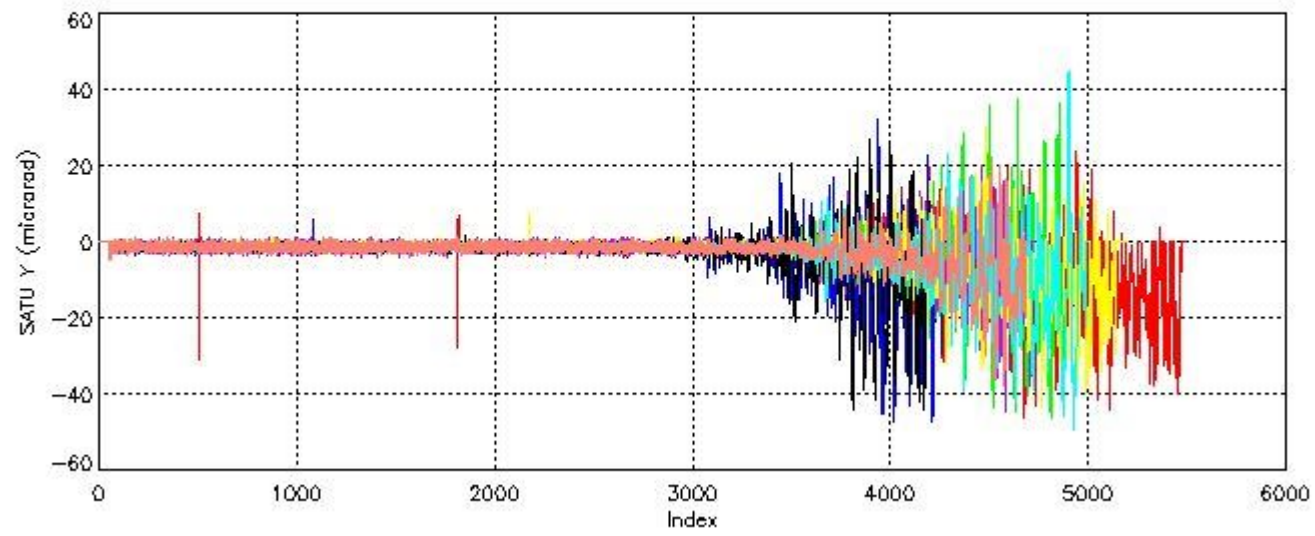
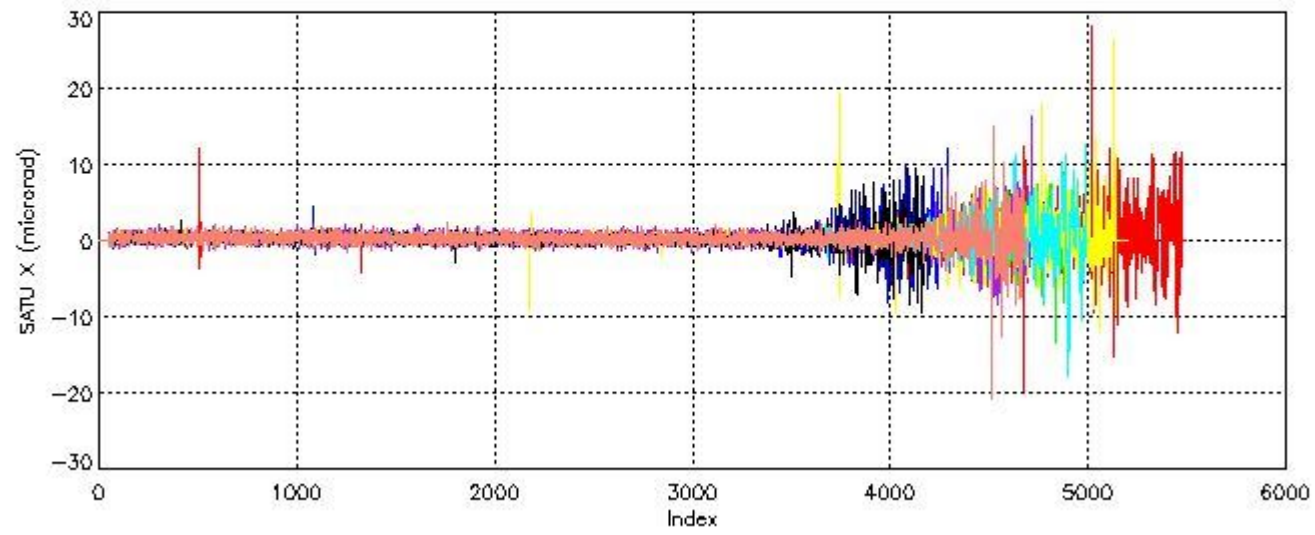


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.34844	-1.2601	0.29365	-1.2791
St. deviation:	0.38371	0.78980	0.82030	1.2901
Maximum:	12.200	7.5000	5.0000	4.0000
Minimum:	-3.8000	-31.000	-4.8000	-6.4000



Number of data:	8650.0	8650.0	30700.	30700.
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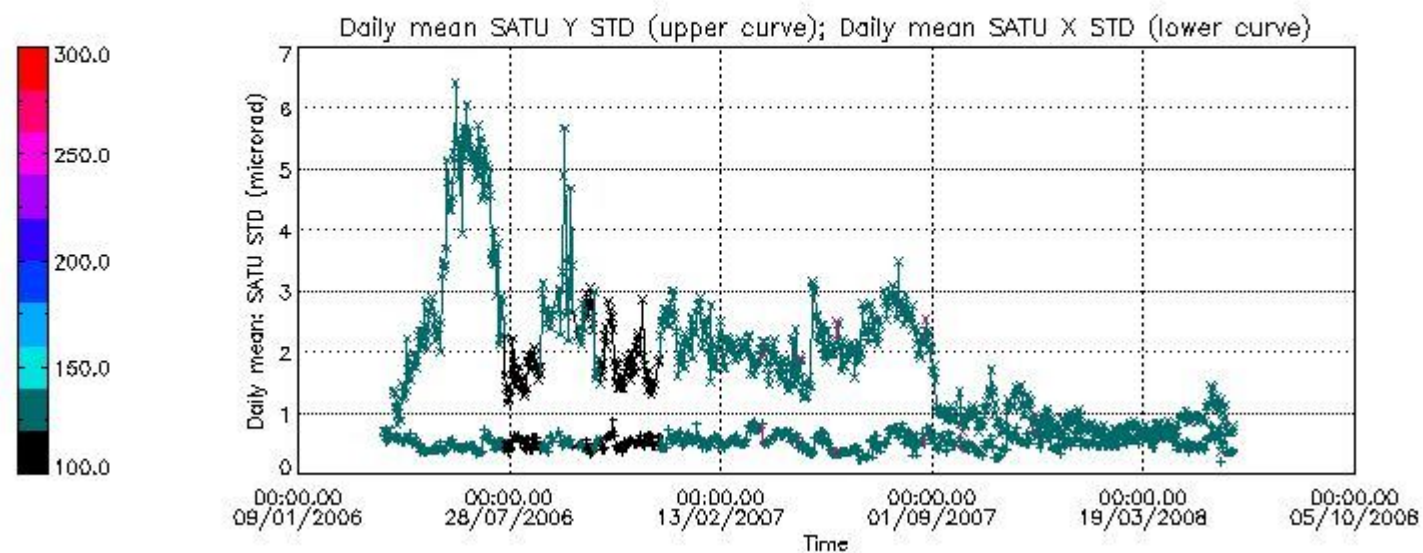
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

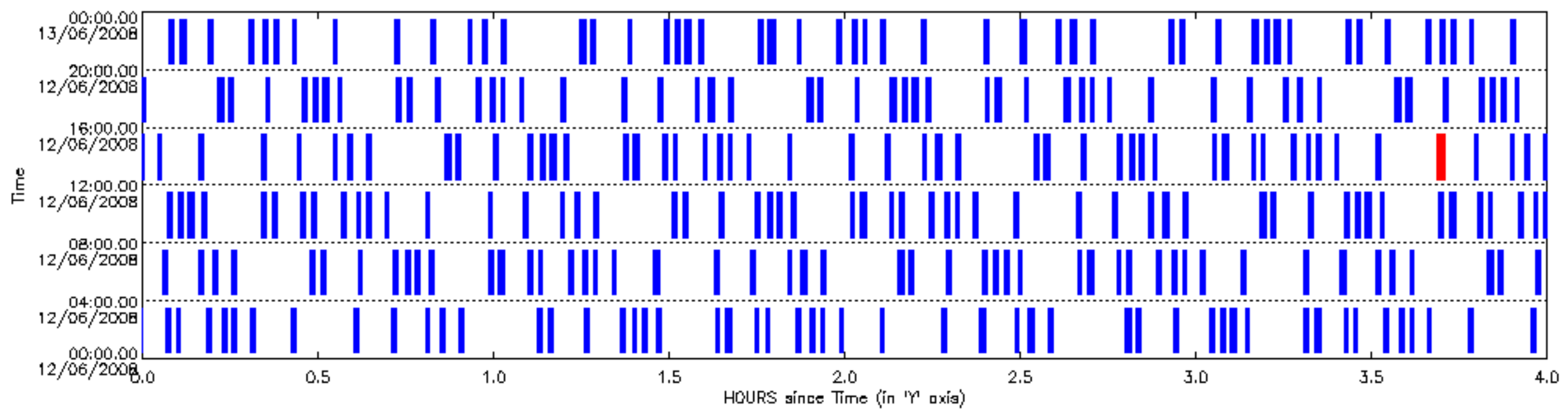
Lower curve: STD of SATU X axis

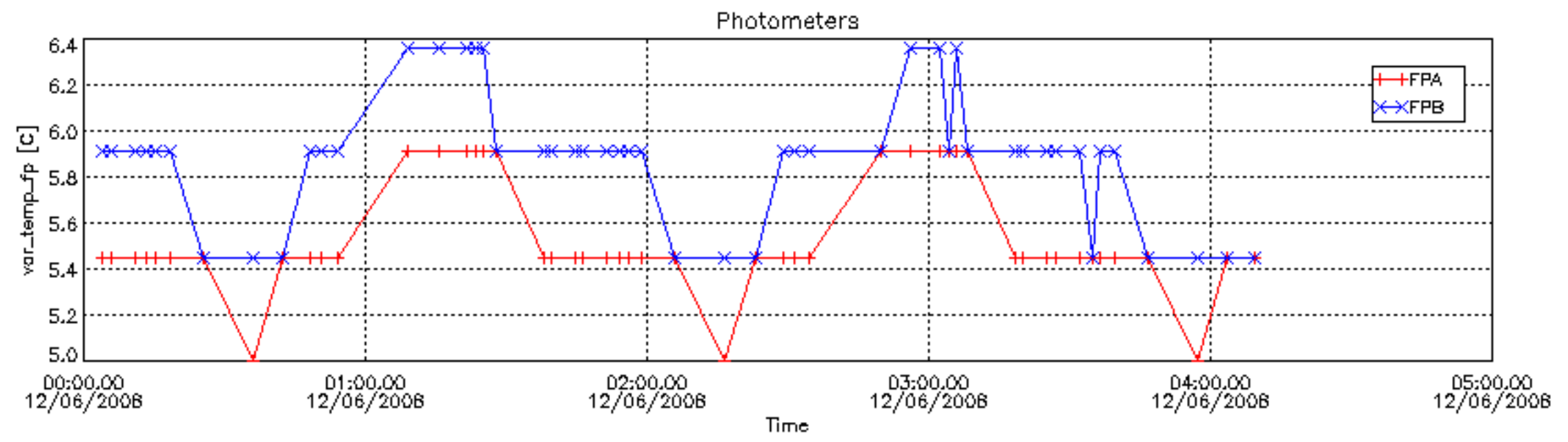
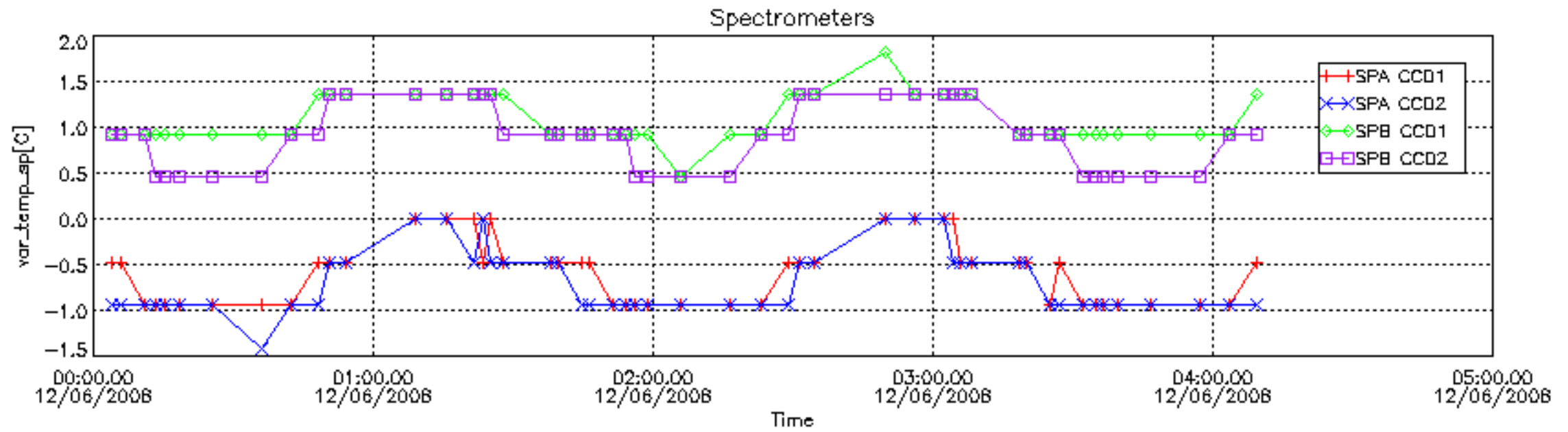


### 8. Auxiliary Data Files used for the production reported in section 2.4

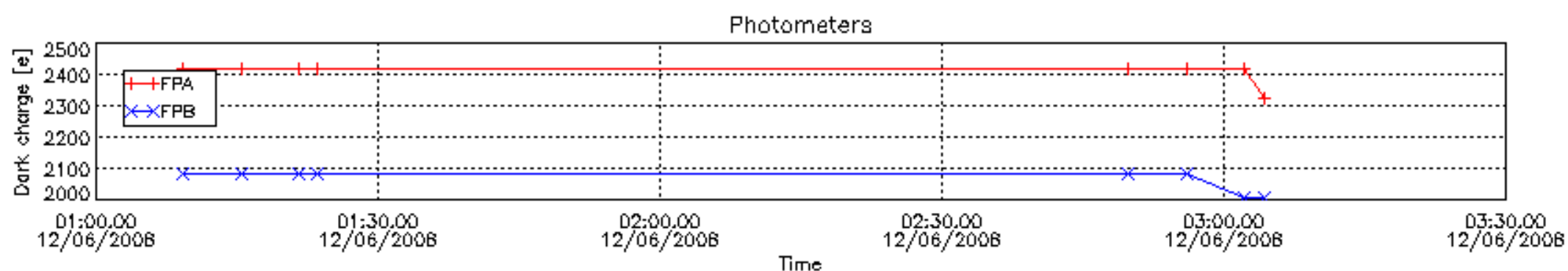
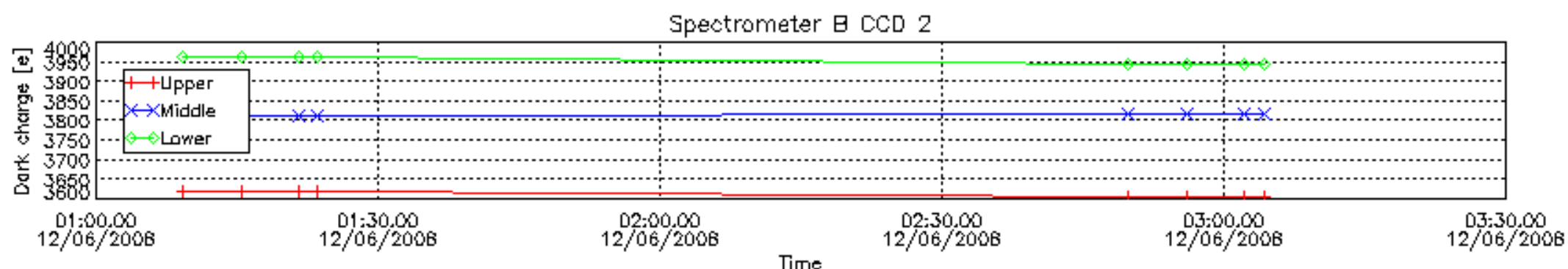
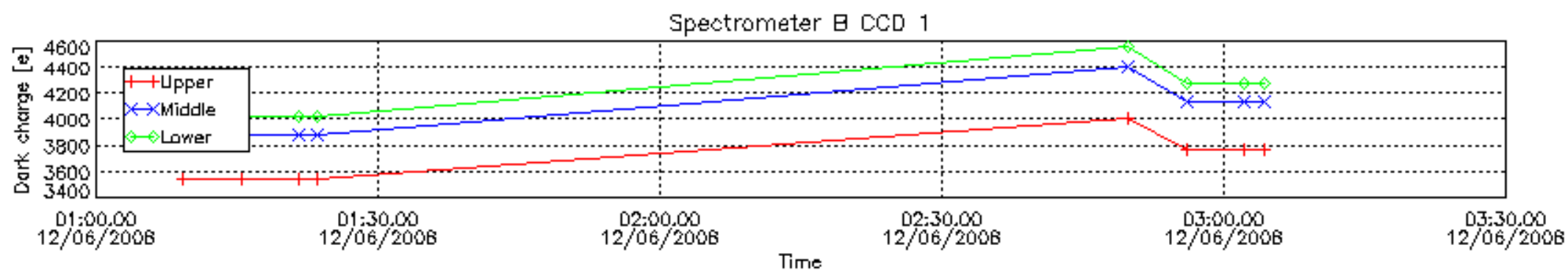
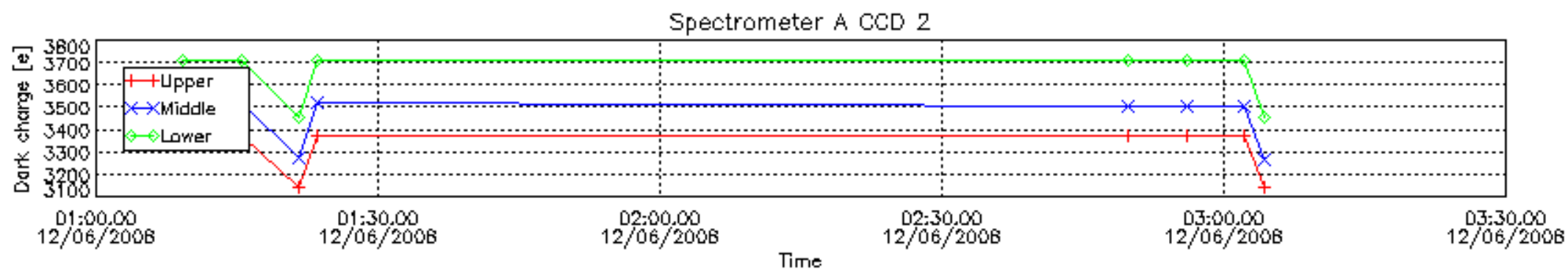
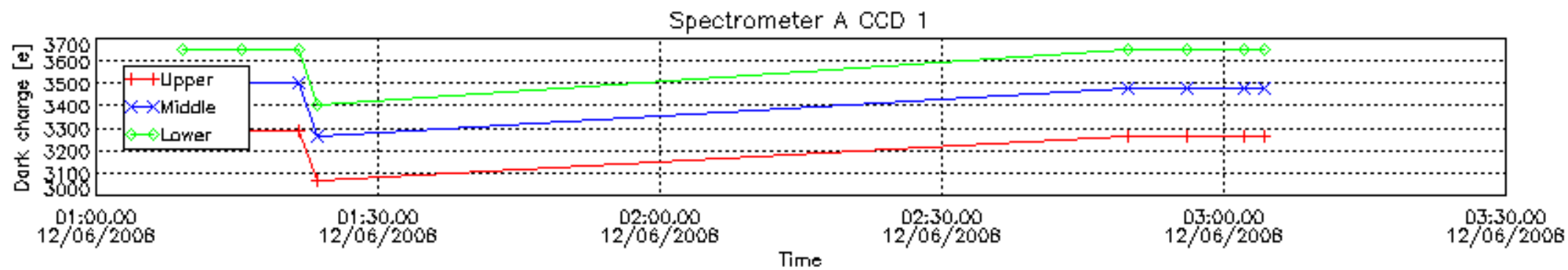
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

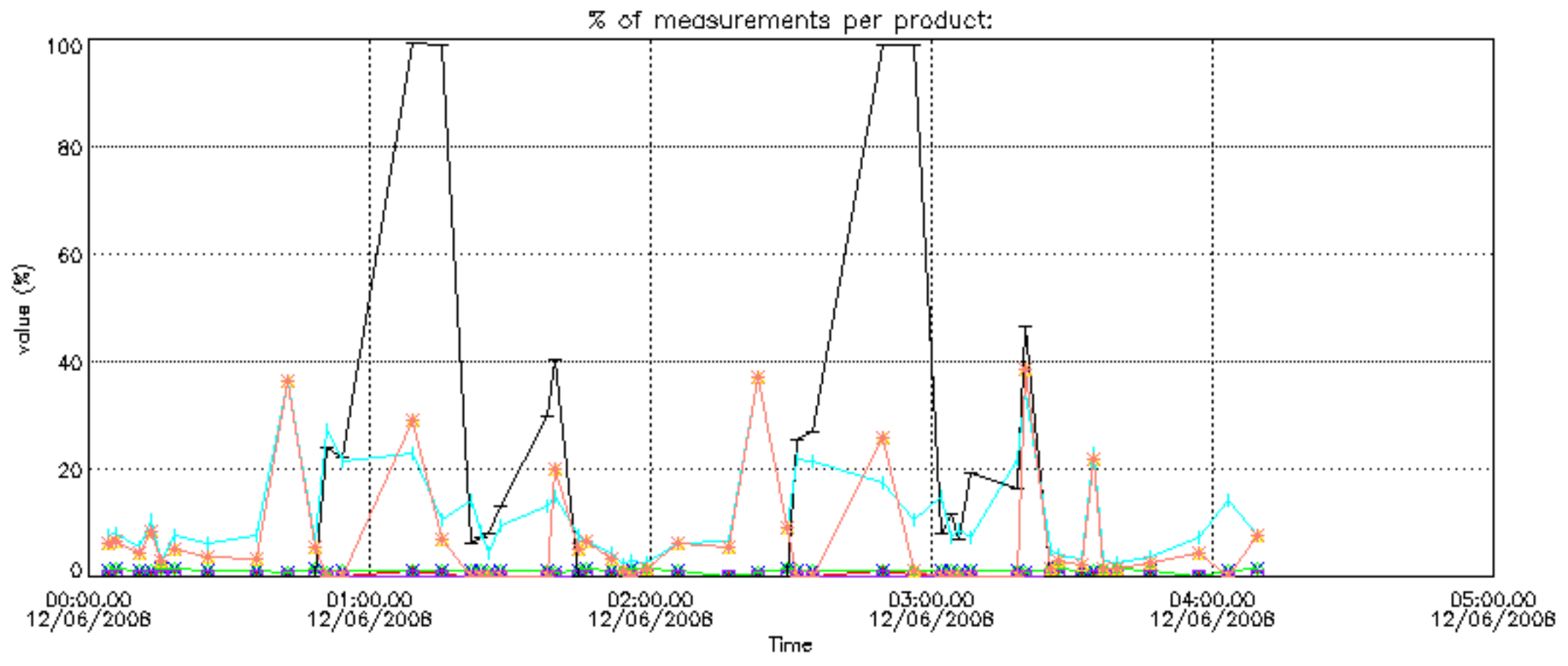
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-JUN-2008 00:04:02
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080609_083139_20080607_000000_20100101_000000	1	12-JUN-2008 00:04:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-JUN-2008 00:04:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-JUN-2008 00:04:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-JUN-2008 00:04:02
ECMWF_FILE	AUX_ECF_AXNECM20080611_072114_20080611_210000_20080612_090000	1	12-JUN-2008 00:04:02
ECMWF_FILE	AUX_ECF_AXNECM20080611_192115_20080612_030000_20080612_150000	49	12-JUN-2008 04:03:20
OPTIONAL_ECMWF_FILE	MISSING	1	12-JUN-2008 00:04:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080611_214014_000057382069_00229_32848_5717.N1	1	12-JUN-2008 00:04:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080611_232111_000057382069_00230_32849_5718.N1	13	12-JUN-2008 01:09:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080612_010208_000041442069_00231_32850_5719.N1	29	12-JUN-2008 02:22:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080612_021631_000057382069_00232_32851_5720.N1	49	12-JUN-2008 04:03:20



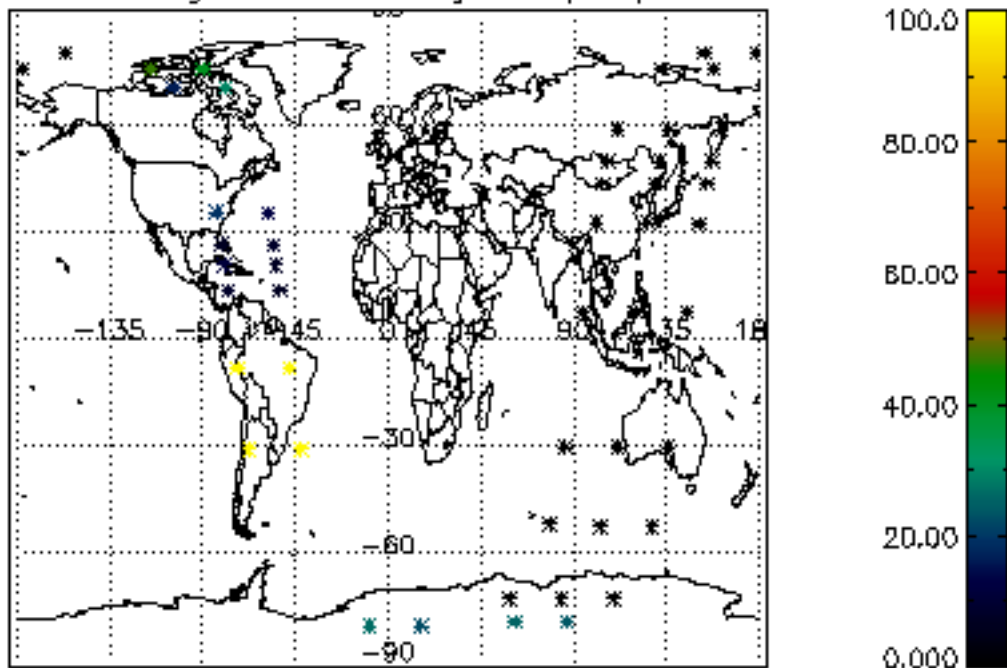




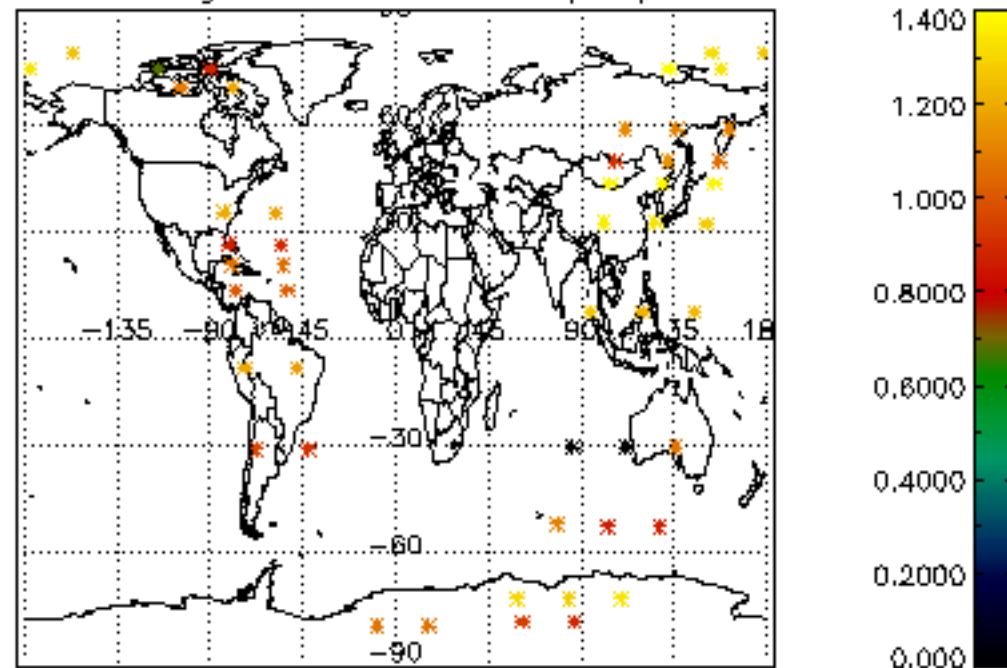




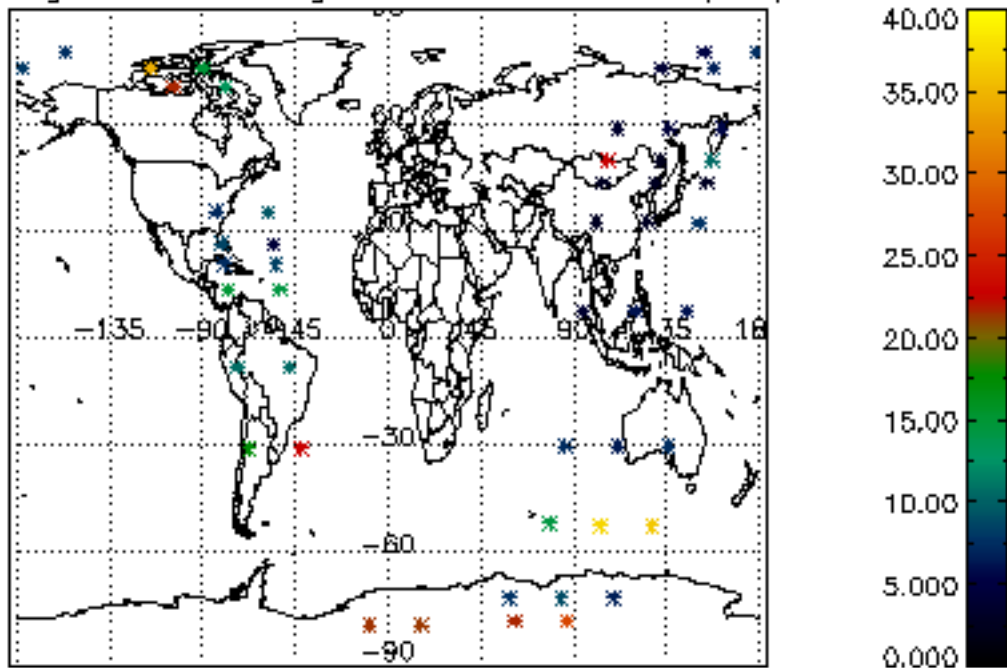
Percentage of cosmic ray hits per profile



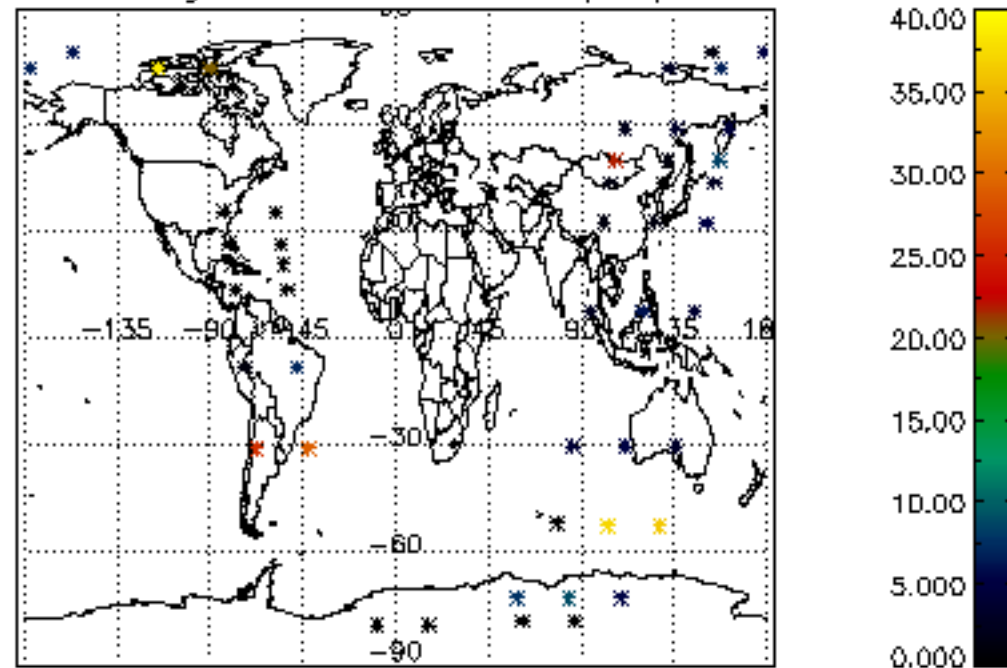
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

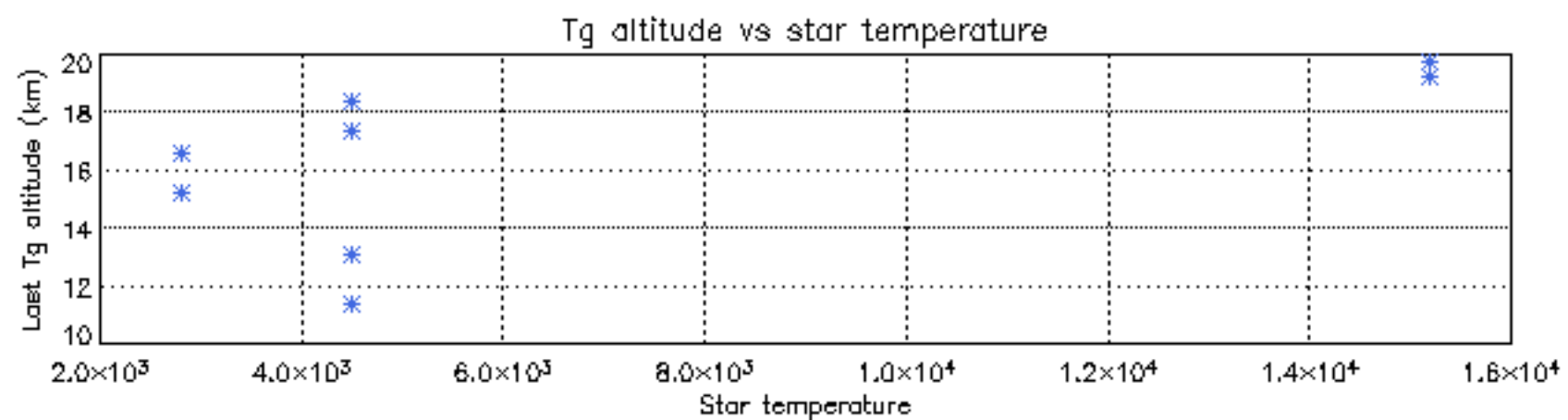
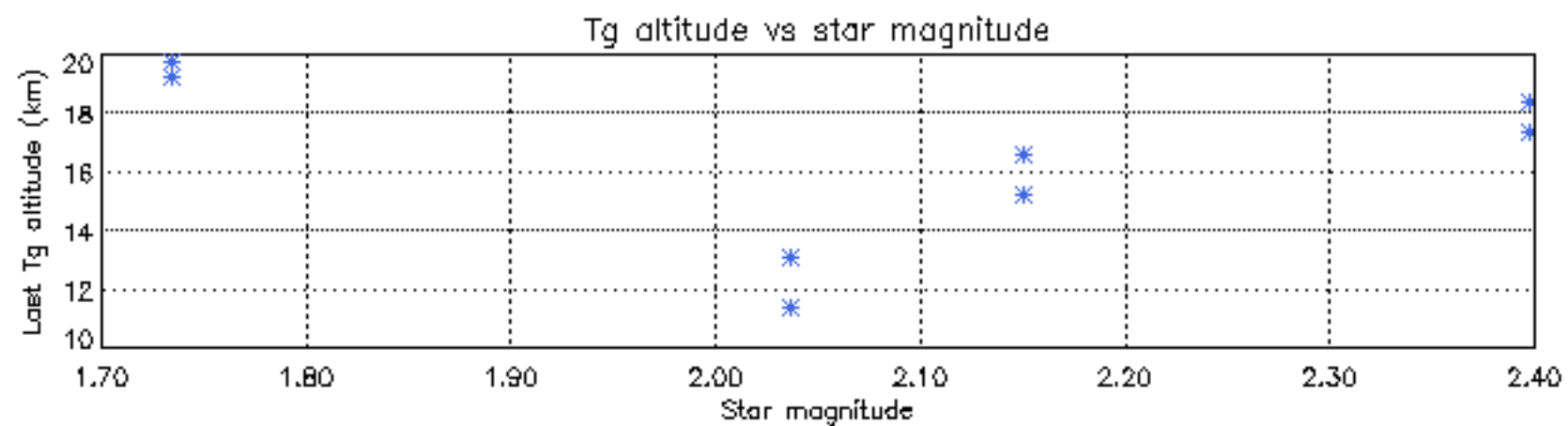
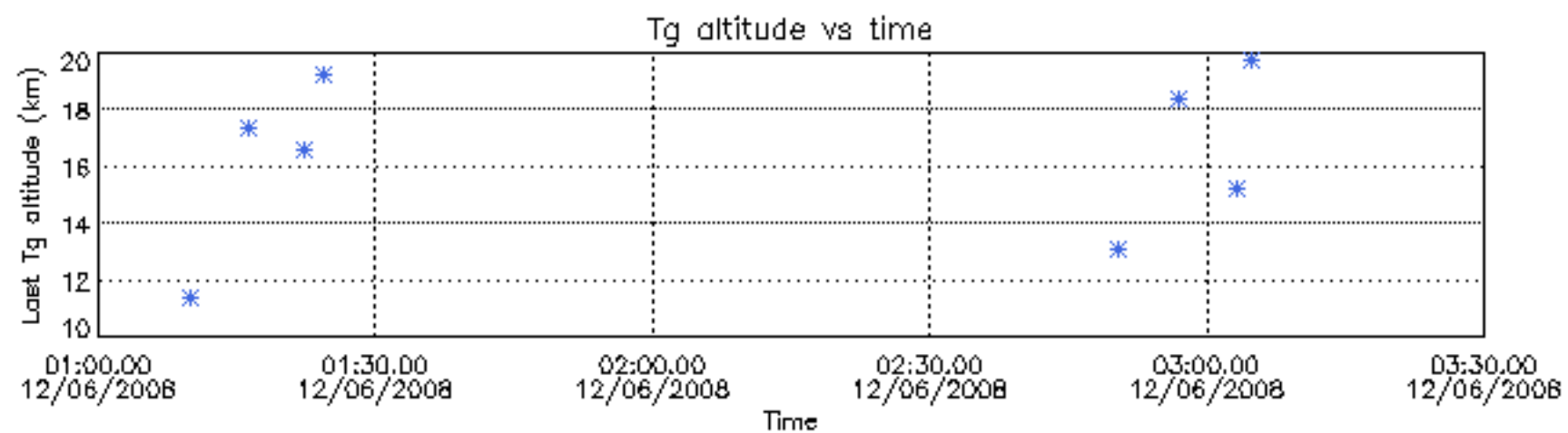


Percentage of saturation errors per profile

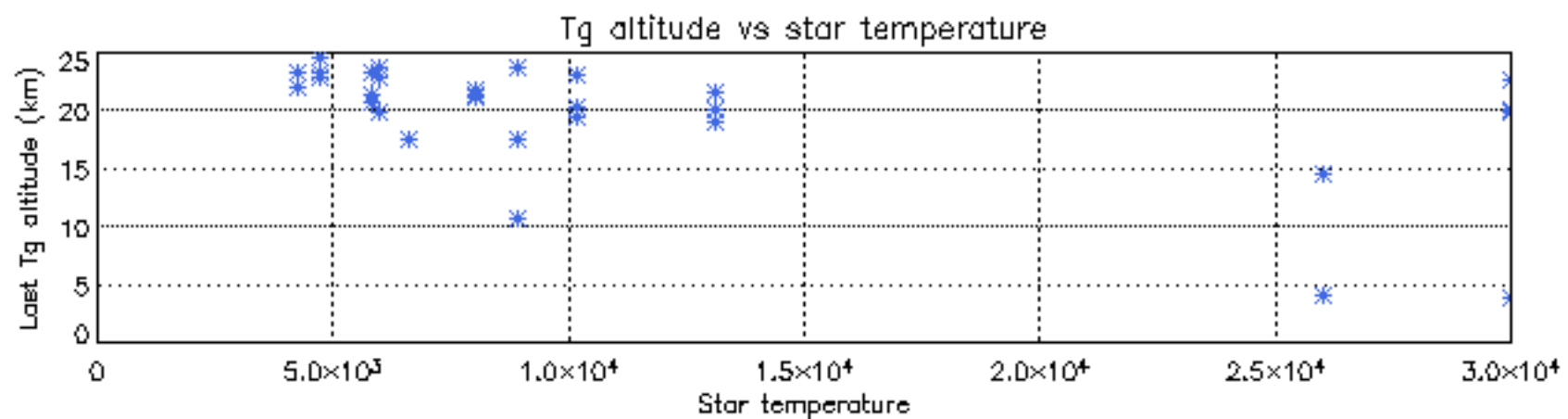
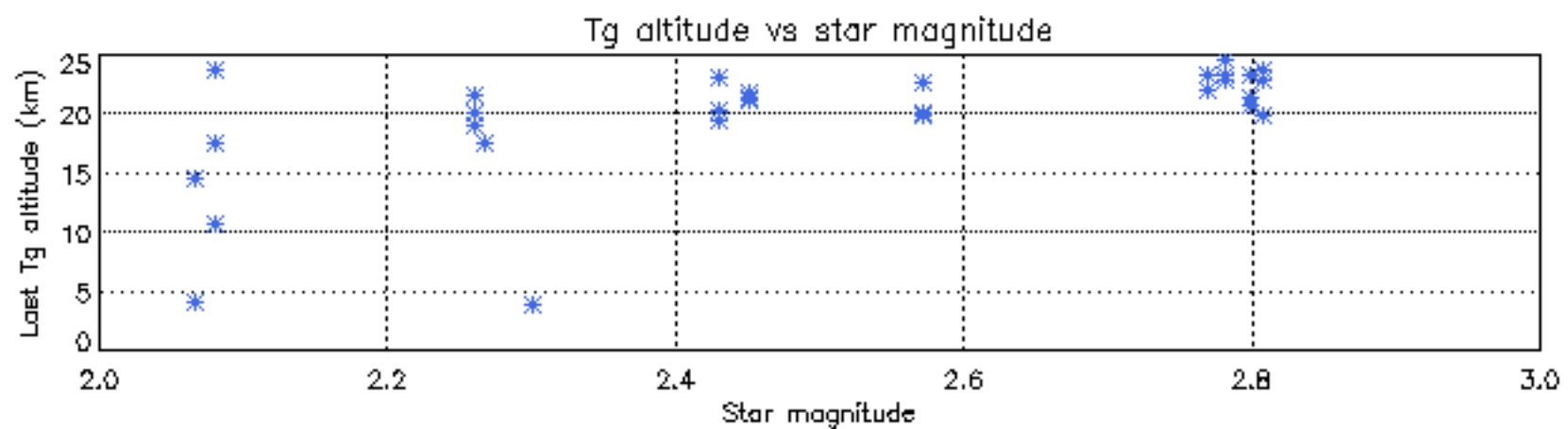
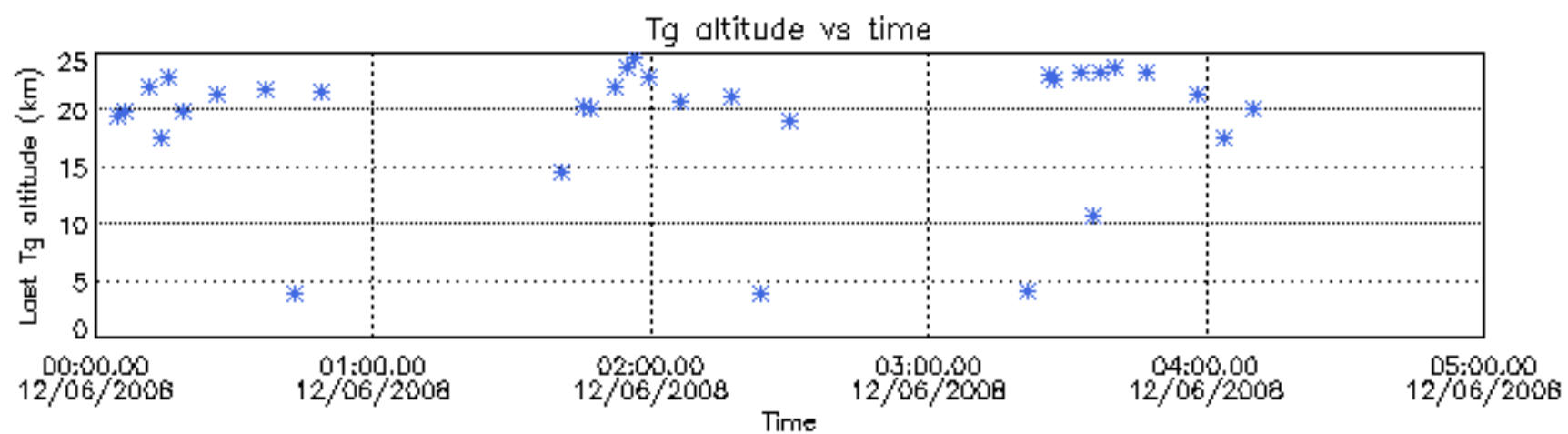




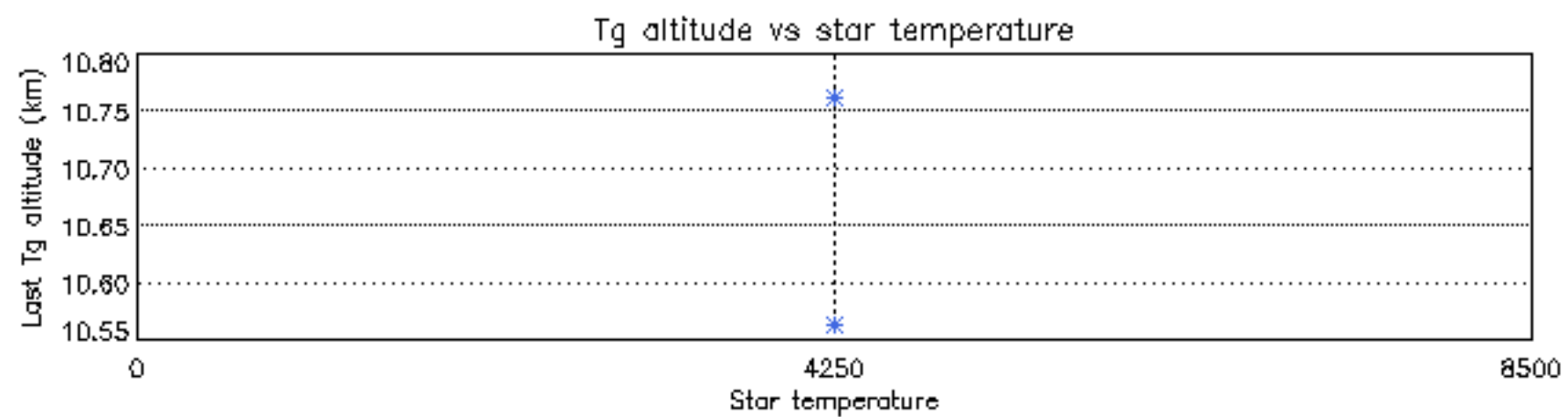
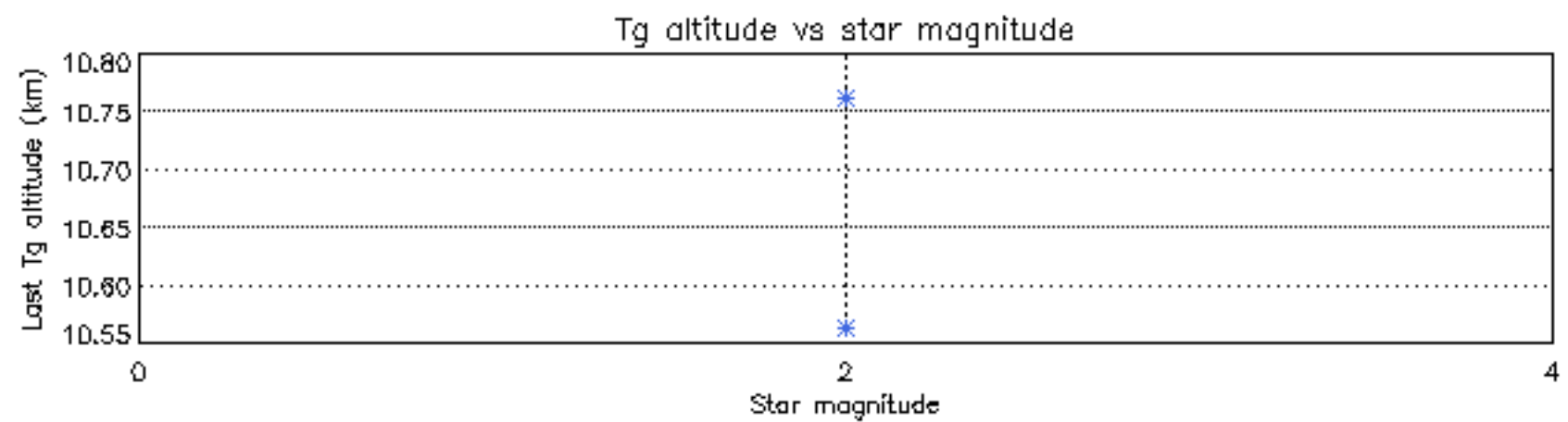
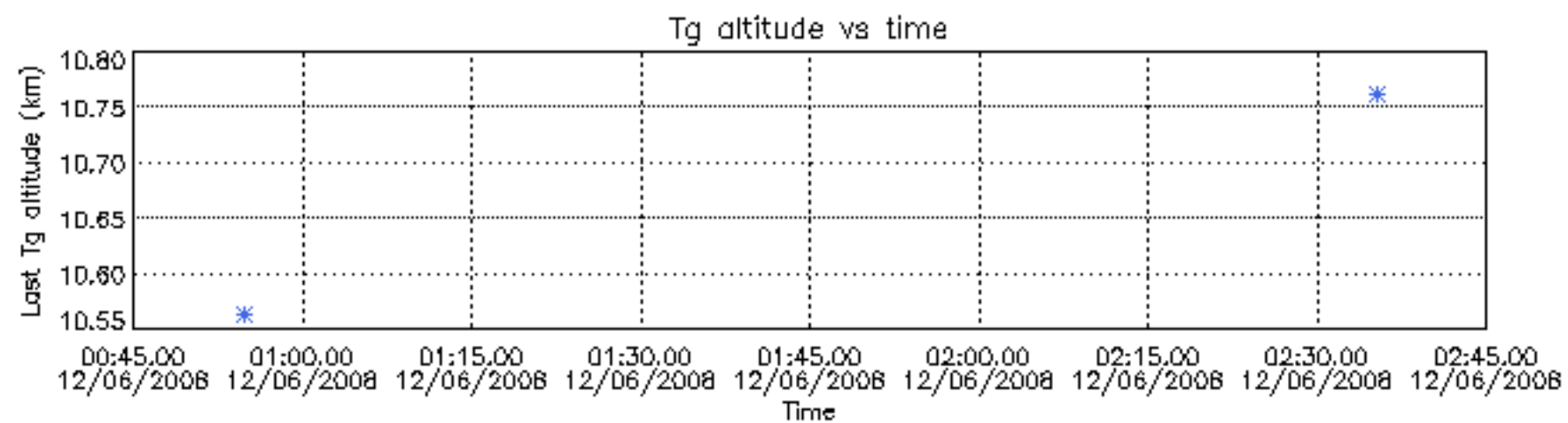
Tangent altitude at which the star is lost



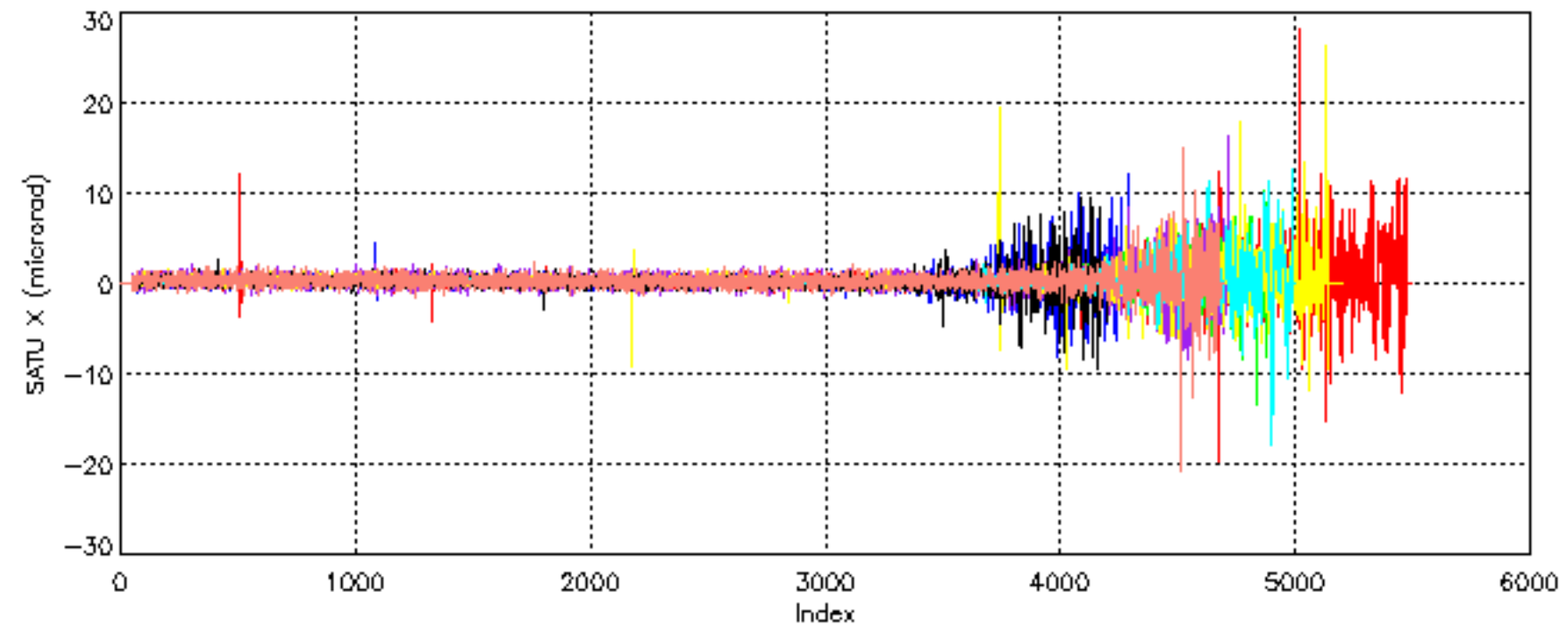
Tangent altitude at which the star is lost

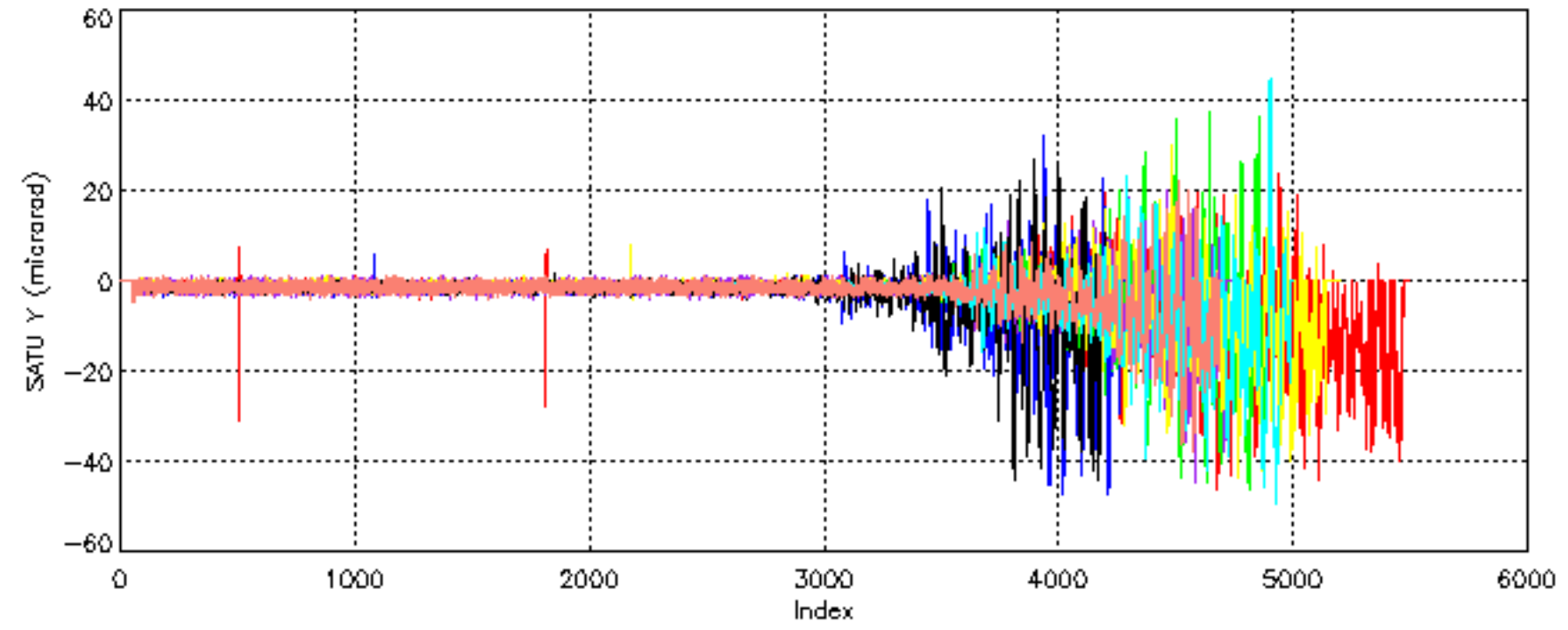


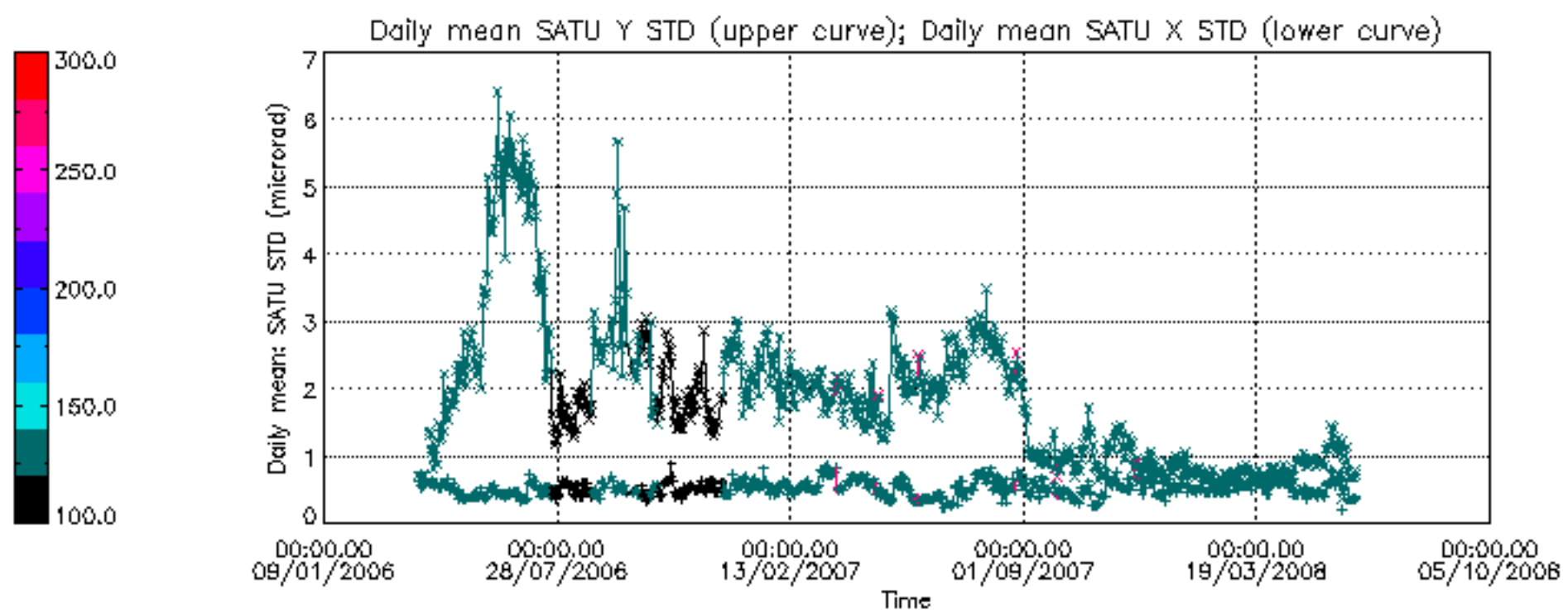
Tangent altitude at which the star is lost











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 3; -116.7; 01-JUN-2008 00:21:16; Dark ; 62.0; 18; 24Alp PsA ; 1.17; 9700;occ; 124; 0;32692  
 4; 80.8; 01-JUN-2008 00:24:34; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32693  
 5; 193.6; 01-JUN-2008 00:26:26; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32693  
 6; 491.2; 01-JUN-2008 00:31:24; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32693  
 7; 936.9; 01-JUN-2008 00:38:50; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32693  
 8; 1038.2; 01-JUN-2008 00:40:31; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;32693  
 9; 1146.2; 01-JUN-2008 00:42:19; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;32693  
 10; 1251.9; 01-JUN-2008 00:44:05; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;32693  
 11; 1373.9; 01-JUN-2008 00:46:07; Dark ; 47.5; 136; 23Tau Sco ; 2.82; 30000;occ; 95; 0;32693  
 12; 1498.6; 01-JUN-2008 00:48:11; Bright; 37.0; 80; 7Del Sco ; 2.32; 30000;occ; 74; 0;32693  
 13; 1591.4; 01-JUN-2008 00:49:44; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;32693  
 14; 1702.9; 01-JUN-2008 00:51:36; Bright; 59.0; 98; 13Zet Oph ; 2.57; 30000;occ; 118; 0;32693  
 15; 1834.0; 01-JUN-2008 00:53:47; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32693  
 16; 2014.6; 01-JUN-2008 00:56:47; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32693  
 17; 2368.7; 01-JUN-2008 01:02:41; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;32693  
 18; 2526.4; 01-JUN-2008 01:05:19; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;32693  
 19; 3003.7; 01-JUN-2008 01:13:16; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;32693  
 20; 3626.4; 01-JUN-2008 01:23:39; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32693  
 21; 3928.8; 01-JUN-2008 01:28:42; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32693  
 22; 4394.6; 01-JUN-2008 01:36:27; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;32693  
 23; 4557.0; 01-JUN-2008 01:39:10; Dark ; 53.5; 58; 21Alp And ; 2.07; 11000;occ; 107; 0;32693  
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 4; 81.7; 01-JUN-2008 02:05:10; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;32694  
 5; 194.6; 01-JUN-2008 02:07:03; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;32694  
 6; 492.0; 01-JUN-2008 02:12:01; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;32694  
 7; 937.3; 01-JUN-2008 02:19:26; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;32694  
 8; 1038.7; 01-JUN-2008 02:21:07; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32694  
 9; 1146.6; 01-JUN-2008 02:22:55; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32694  
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 12; 1498.9; 01-JUN-2008 02:28:48; Bright; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;32694  
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 18; 2526.1; 01-JUN-2008 02:45:55; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;32694  
 19; 3003.4; 01-JUN-2008 02:53:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32694  
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 5; -1180.4; 01-JUN-2008 03:24:44; Dark ; 51.5; 140; 88Gam Peg ; 2.83; 26000;occ; 103; 0;32694  
 6; -749.4; 01-JUN-2008 03:31:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32694  
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 8; -114.1; 01-JUN-2008 03:42:30; Dark ; 65.5; 18; 24Alp PsA ; 1.17; 9700;occ; 131; 0;32694  
 9; 82.7; 01-JUN-2008 03:45:47; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;32695  
 10; 195.7; 01-JUN-2008 03:47:40; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32695  
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 12; 937.9; 01-JUN-2008 04:00:02; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32695  
 13; 1039.3; 01-JUN-2008 04:01:44; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;32695  
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 15; 1252.8; 01-JUN-2008 04:05:17; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32695  
 16; 1374.6; 01-JUN-2008 04:07:19; Dark ; 49.5; 136; 23Tau Sco ; 2.82; 30000;occ; 99; 0;32695  
 17; 1499.2; 01-JUN-2008 04:09:24; Bright; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;32695  
 18; 1591.8; 01-JUN-2008 04:10:56; Bright; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;32695  
 19; 1703.3; 01-JUN-2008 04:12:48; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32695  
 20; 1834.2; 01-JUN-2008 04:14:59; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;32695  
 21; 2014.9; 01-JUN-2008 04:17:59; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32695



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22; 2368.7; 01-JUN-2008 04:23:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32695
23; 2525.7; 01-JUN-2008 04:26:30; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32695
24; 3003.4; 01-JUN-2008 04:34:28; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;32695
25; 3625.3; 01-JUN-2008 04:44:50; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;32695
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 4; -1478.5; 01-JUN-2008 05:00:22; Dark ; 54.0; 58; 21Alp And ; 2.07; 11000;occ; 108; 0;32695
 5; -1179.8; 01-JUN-2008 05:05:21; Dark ; 47.5; 140; 88Gam Peg ; 2.83; 26000;occ; 95; 0;32695
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11; 493.3; 01-JUN-2008 05:33:14; Dark ; 46.0; 45; Alp Pav ; 1.94; 26000;occ; 92; 0;32696
12; 938.4; 01-JUN-2008 05:40:39; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32696
13; 1039.7; 01-JUN-2008 05:42:20; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32696
14; 1147.4; 01-JUN-2008 05:44:08; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;32696
15; 1253.1; 01-JUN-2008 05:45:54; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;32696
16; 1374.9; 01-JUN-2008 05:47:55; Dark ; 53.0; 136; 23Tau Sco ; 2.82; 30000;occ; 106; 0;32696
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18; 1591.8; 01-JUN-2008 05:51:32; Bright; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;32696
19; 1703.1; 01-JUN-2008 05:53:24; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;32696
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21; 2014.9; 01-JUN-2008 05:58:36; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32696
22; 2368.5; 01-JUN-2008 06:04:29; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;32696
23; 2525.2; 01-JUN-2008 06:07:06; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;32696
24; 3002.9; 01-JUN-2008 06:15:04; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;32696
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 3; 1151.1; 01-JUN-2008 20:49:35; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;32705
 4; 1255.7; 01-JUN-2008 20:51:20; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;32705
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16; 6276.1; 04-JUN-2008 10:36:34; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;32741
17; 6560.3; 04-JUN-2008 10:41:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32741
18; 6992.5; 04-JUN-2008 10:48:30; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32741
19; 7094.9; 04-JUN-2008 10:50:13; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;32741
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22; 7421.3; 04-JUN-2008 10:55:39; Dark ; 45.5; 136; 23Tau Sco ; 2.82; 30000;occ; 91; 0;32741
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 7; 3596.6; 04-JUN-2008 11:32:30; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32742
 8; 3923.5; 04-JUN-2008 11:37:57; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;32742

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 13; 5332.0; 04-JUN-2008 12:01:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32742  
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 23; 7302.5; 04-JUN-2008 12:34:16; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32742  
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 3; 2014.7; 04-JUN-2008 12:46:44; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32743  
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 6; 2944.2; 04-JUN-2008 13:02:14; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;32743  
 7; 3596.2; 04-JUN-2008 13:13:06; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32743  
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 9; 4399.4; 04-JUN-2008 13:26:29; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;32743  
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 12; 4882.7; 04-JUN-2008 13:34:32; Dark ; 55.0; 140; 88Gam Peg ; 2.83; 26000;occ; 110; 0;32743  
 13; 5333.0; 04-JUN-2008 13:42:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32743  
 14; 5428.2; 04-JUN-2008 13:43:38; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;32743  
 15; 5825.9; 04-JUN-2008 13:50:15; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;32743  
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 19; 6561.7; 04-JUN-2008 14:02:31; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32743  
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 22; 7202.4; 04-JUN-2008 14:13:12; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;32743  
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 5; 2305.0; 04-JUN-2008 14:32:10; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;32744  
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 8; 3595.4; 04-JUN-2008 14:53:41; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32744  
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 18; 6162.4; 04-JUN-2008 15:36:28; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;32744  
 19; 6279.1; 04-JUN-2008 15:38:24; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32744  
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 21; 6993.6; 04-JUN-2008 15:50:19; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32744  
 22; 7096.3; 04-JUN-2008 15:52:02; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32744  
 23; 7202.8; 04-JUN-2008 15:53:48; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32744  
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 5; 1834.5; 04-JUN-2008 16:04:56; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32745  
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7; 539.7; 06-JUN-2008 01:15:20; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32765
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13; 1706.5; 06-JUN-2008 01:34:46; Bright; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;32765
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16; 2495.8; 06-JUN-2008 01:47:56; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32765
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9; 145.4; 06-JUN-2008 02:49:21; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;32766
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9; 146.2; 06-JUN-2008 04:29:58; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;32767
10; 264.3; 06-JUN-2008 04:31:56; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32767
11; 541.0; 06-JUN-2008 04:36:33; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32767
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13; 1174.9; 06-JUN-2008 04:47:07; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32767
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17; 1706.8; 06-JUN-2008 04:55:59; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32767
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19; 2298.8; 06-JUN-2008 05:05:51; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;32767
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21; 2930.6; 06-JUN-2008 05:16:23; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32767
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 12; 1069.5; 06-JUN-2008 06:25:57; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32768  
 13; 1175.3; 06-JUN-2008 06:27:43; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32768  
 14; 1273.4; 06-JUN-2008 06:29:21; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;32768  
 15; 1426.9; 06-JUN-2008 06:31:55; Bright; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;32768  
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 17; 1706.8; 06-JUN-2008 06:36:35; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32768  
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 20; 2494.7; 06-JUN-2008 06:49:43; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;32768  
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 11; 1708.4; 07-JUN-2008 22:50:59; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;32792  
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8; 2287.8; 09-JUN-2008 18:36:12; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;32818  
9; 2478.4; 09-JUN-2008 18:39:23; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32818  
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12; 3912.5; 09-JUN-2008 19:03:17; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;32818  
13; 4266.2; 09-JUN-2008 19:09:11; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;32818  
14; 4405.5; 09-JUN-2008 19:11:30; Dark ; 58.0; 53; 43Bet And ; 2.05; 3300;occ; 116; 0;32818  
15; 4602.9; 09-JUN-2008 19:14:47; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;32818  
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19; 6095.2; 09-JUN-2008 19:39:40; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;32818  
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13; 2030.5; 10-JUN-2008 01:14:19; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32822  
14; 2188.4; 10-JUN-2008 01:16:57; Bright; 48.0; 59; 55Alp Oph ; 2.08; 8900;occ; 96; 0;32822  
15; 2286.9; 10-JUN-2008 01:18:35; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;32822  
16; 2477.2; 10-JUN-2008 01:21:45; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32822  
17; 2902.1; 10-JUN-2008 01:28:50; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32822  
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10; 1292.7; 10-JUN-2008 02:42:37; Dark ; 57.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 115; 0;32823
11; 1605.0; 10-JUN-2008 02:47:49; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32823
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13; 2030.4; 10-JUN-2008 02:54:54; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32823
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13; 1090.3; 10-JUN-2008 04:19:50; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32824
14; 1194.9; 10-JUN-2008 04:21:35; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32824
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16; 1605.2; 10-JUN-2008 04:28:25; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32824
17; 1711.0; 10-JUN-2008 04:30:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32824
18; 2030.0; 10-JUN-2008 04:35:30; Bright; 49.0; 126; 60Bet Oph ; 2.77; 4250;occ; 98; 0;32824
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21; 2476.9; 10-JUN-2008 04:42:57; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32824
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8; 68.6; 10-JUN-2008 05:43:25; Dark ; 36.0; 18; 24Alp PsA ; 1.17; 9700;occ; 72; 0;32825
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13; 1195.1; 10-JUN-2008 06:02:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32825
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16; 1711.1; 10-JUN-2008 06:10:47; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32825
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18; 2187.3; 10-JUN-2008 06:18:43; Bright; 47.0; 59; 55Alp Oph ; 2.08; 8900;occ; 94; 0;32825
19; 2286.7; 10-JUN-2008 06:20:23; Bright; 56.0; 127; 27Bet Her ; 2.78; 4700;occ; 112; 0;32825
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21; 2900.9; 10-JUN-2008 06:30:37; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32825
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3; 1297.5; 10-JUN-2008 21:09:17; Dark ; 56.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 113; 0;32834
4; 1606.2; 10-JUN-2008 21:14:26; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32834
5; 1711.7; 10-JUN-2008 21:16:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32834

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10; 2896.6; 10-JUN-2008 21:35:56; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32834  
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12; 3909.7; 10-JUN-2008 21:52:49; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;32834  
13; 4267.0; 10-JUN-2008 21:58:46; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32834  
14; 4406.8; 10-JUN-2008 22:01:06; Dark ; 53.0; 53; 43Bet And ; 2.05; 3300;occ; 106; 0;32834  
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5; 330.7; 10-JUN-2008 22:33:46; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32835  
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7; 585.2; 10-JUN-2008 22:38:01; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32835  
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9; 1198.2; 10-JUN-2008 22:48:14; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;32835  
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19; 3909.6; 10-JUN-2008 23:33:25; Bright; 58.0; 76; 27Gam Cas ; 2.30; 30000;occ; 116; 0;32835  
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22; 4606.4; 10-JUN-2008 23:45:02; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;32835  
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6; 423.1; 11-JUN-2008 00:15:54; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;32836  
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4; 1712.9; 11-JUN-2008 17:23:23; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32846
5; 2022.7; 11-JUN-2008 17:28:33; Bright; 68.0; 126; 60Bet Oph ; 2.77; 4250;occ; 136; 0;32846

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13; 4407.8; 11-JUN-2008 18:08:18; Dark ; 60.0; 53; 43Bet And ; 2.05; 3300;occ; 120; 0;32846  
14; 4608.9; 11-JUN-2008 18:11:39; Dark ; 49.5; 50; 13Alp Ari ; 2.01; 4250;occ; 99; 0;32846  
15; 5398.2; 11-JUN-2008 18:24:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32846  
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21; 6628.8; 11-JUN-2008 18:45:19; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32846

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7; 2283.3; 11-JUN-2008 19:13:30; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32847  
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13; 4407.8; 11-JUN-2008 19:48:54; Dark ; 56.0; 53; 43Bet And ; 2.05; 3300;occ; 112; 0;32847  
14; 4609.0; 11-JUN-2008 19:52:16; Dark ; 46.5; 50; 13Alp Ari ; 2.01; 4250;occ; 93; 0;32847  
15; 5399.1; 11-JUN-2008 20:05:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32847  
16; 5511.4; 11-JUN-2008 20:07:18; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;32847  
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3; 2180.8; 11-JUN-2008 07:27:36; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;32840  
4; 2284.3; 11-JUN-2008 07:29:19; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32840  
5; 2472.5; 11-JUN-2008 07:32:28; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32840  
6; 2893.9; 11-JUN-2008 07:39:29; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32840  
7; 3533.6; 11-JUN-2008 07:50:09; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32840  
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9; 4267.4; 11-JUN-2008 08:02:22; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;32840  
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11; 4607.5; 11-JUN-2008 08:08:02; Dark ; 44.5; 50; 13Alp Ari ; 2.01; 4250;occ; 89; 0;32840  
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18; 6625.0; 11-JUN-2008 08:41:40; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;32840  
19; 7236.2; 11-JUN-2008 08:51:51; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32840  
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3; 2023.6; 11-JUN-2008 12:26:46; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;32843  
4; 2179.3; 11-JUN-2008 12:29:22; Bright; 46.0; 59; 55Alp Oph ; 2.08; 8900;occ; 92; 0;32843  
5; 2283.8; 11-JUN-2008 12:31:06; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32843  
6; 2471.8; 11-JUN-2008 12:34:14; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32843

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13; 5395.2; 11-JUN-2008 13:22:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32843
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17; 6375.7; 11-JUN-2008 13:39:18; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;32843
18; 6470.0; 11-JUN-2008 13:40:53; Dark ; 58.5; 172; Gam Gru ; 3.00; 13100;occ; 117; 0;32843
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5; 2283.7; 11-JUN-2008 14:11:42; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32844
6; 2471.5; 11-JUN-2008 14:14:50; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32844
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4; 224.7; 12-JUN-2008 01:21:35; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32851
5; 346.7; 12-JUN-2008 01:23:37; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32851
6; 443.6; 12-JUN-2008 01:25:14; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;32851
7; 595.2; 12-JUN-2008 01:27:45; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32851
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13; 2176.2; 12-JUN-2008 01:54:06; Bright; 43.5; 59; 55Alp Oph ; 2.08; 8900;occ; 87; 0;32851
14; 2282.5; 12-JUN-2008 01:55:53; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32851
15; 2469.7; 12-JUN-2008 01:59:00; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32851
16; 2888.8; 12-JUN-2008 02:05:59; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32851
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8; 225.7; 12-JUN-2008 03:02:12; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;32852
9; 347.7; 12-JUN-2008 03:04:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32852
10; 445.1; 12-JUN-2008 03:05:51; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;32852
11; 596.0; 12-JUN-2008 03:08:22; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32852
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16; 2020.9; 12-JUN-2008 03:32:07; Bright; 44.5; 126; 60Bet Oph ; 2.77; 4250;occ; 89; 0;32852
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18; 2282.5; 12-JUN-2008 03:36:28; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32852
19; 2469.5; 12-JUN-2008 03:39:36; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32852
20; 2888.4; 12-JUN-2008 03:46:34; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32852
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 8; 226.6; 12-JUN-2008 04:42:49; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;32853
 9; 348.6; 12-JUN-2008 04:44:51; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;32853
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27; 7647.9; 14-JUN-2008 09:04:28; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32883
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 23; 7042.5; 14-JUN-2008 15:36:46; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32887  
 24; 7147.6; 14-JUN-2008 15:38:31; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32887  
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 4; 1716.9; 14-JUN-2008 15:48:36; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32888  
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 8; 2367.5; 14-JUN-2008 15:59:27; Bright; 34.0; 67; 5Alp CrB ; 2.22; 11000;occ; 68; 0;32888  
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13; 2872.0; 14-JUN-2008 21:09:40; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32891
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16; 3446.6; 14-JUN-2008 21:19:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32891
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16; 2367.9; 14-JUN-2008 22:41:51; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32892
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22; 3898.6; 14-JUN-2008 23:07:22; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;32892
23; 4061.7; 14-JUN-2008 23:10:05; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;32892
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27; 4904.4; 14-JUN-2008 23:24:08; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32892
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3; 265.0; 14-JUN-2008 23:47:24; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;32893
4; 621.4; 14-JUN-2008 23:53:21; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32893
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13; 1843.1; 15-JUN-2008 00:13:42; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;32893
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 12; 2872.7; 14-JUN-2008 17:48:28; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32889  
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 23; 4903.9; 14-JUN-2008 20:02:56; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32890  
 24; 5611.7; 14-JUN-2008 20:14:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32890  
 25; 5927.9; 14-JUN-2008 20:20:00; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;32890  
 26; 6299.1; 14-JUN-2008 20:26:11; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;32890  
 27; 6656.1; 14-JUN-2008 20:32:08; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32890  
 28; 6961.6; 14-JUN-2008 20:37:13; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;32890  
 29; 7043.3; 14-JUN-2008 20:38:35; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32890

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6; 1008.4; 15-JUN-2008 01:40:24; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;32894
7; 1113.5; 15-JUN-2008 01:42:09; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32894
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9; 1303.7; 15-JUN-2008 01:45:19; Dark ; 40.0; 75; 26Eps Sco ; 2.29; 4250;occ; 80; 0;32894
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11; 1613.1; 15-JUN-2008 01:50:28; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32894
12; 1717.4; 15-JUN-2008 01:52:13; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;32894
13; 1843.3; 15-JUN-2008 01:54:18; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;32894
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15; 2277.6; 15-JUN-2008 02:01:33; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;32894
16; 2368.0; 15-JUN-2008 02:03:03; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32894
17; 2460.5; 15-JUN-2008 02:04:36; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32894
18; 2870.7; 15-JUN-2008 02:11:26; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;32894
19; 2962.4; 15-JUN-2008 02:12:58; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;32894
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9; 267.1; 15-JUN-2008 03:08:38; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32895
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13; 1113.8; 15-JUN-2008 03:22:45; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32895
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17; 1613.3; 15-JUN-2008 03:31:04; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32895
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22; 2368.1; 15-JUN-2008 03:43:39; Bright; 34.0; 67; 5Alp CrB ; 2.22; 11000;occ; 68; 0;32895
23; 2460.4; 15-JUN-2008 03:45:12; Bright; 50.0; 133; 40Zet Her ; 2.81; 6000;occ; 100; 0;32895
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25; 2962.3; 15-JUN-2008 03:53:33; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32895
26; 3169.4; 15-JUN-2008 03:57:01; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;32895
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7; -422.6; 15-JUN-2008 04:37:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32895
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9; 268.0; 15-JUN-2008 04:49:15; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;32896
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14; 1217.0; 15-JUN-2008 05:05:04; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32896
15; 1304.4; 15-JUN-2008 05:06:31; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;32896
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17; 1613.3; 15-JUN-2008 05:11:40; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;32896
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19; 1843.6; 15-JUN-2008 05:15:31; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32896

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 23; 2460.3; 15-JUN-2008 05:25:47; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32896  
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 25; 2962.2; 15-JUN-2008 05:34:09; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32896  
 26; 3169.5; 15-JUN-2008 05:37:37; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;32896  
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 15; 3170.0; 15-JUN-2008 20:43:01; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;32905  
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23;	6664.1;	15-JUN-2008	18:20:03;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	32903
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13; 3177.8; 22-JUN-2008 20:23:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33005  
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13; 2447.1; 22-JUN-2008 21:51:27; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33006  
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4; 687.6; 22-JUN-2008 23:02:43; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33007
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21; 2952.7; 23-JUN-2008 06:22:52; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33011
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13; 1329.0; 23-JUN-2008 07:36:24; Dark ; 56.5; 116; 19Del Sgr ; 2.70; 4100;occ; 113; 0;33012  
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8; 3178.6; 23-JUN-2008 08:07:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33012  
9; 3446.2; 23-JUN-2008 08:11:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33012  
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13; 4416.4; 23-JUN-2008 08:27:51; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;33012  
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2; 1732.2; 23-JUN-2008 12:44:55; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33015
3; 1988.5; 23-JUN-2008 12:49:11; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33015
4; 2132.5; 23-JUN-2008 12:51:35; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33015
5; 2274.8; 23-JUN-2008 12:53:57; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33015
6; 2446.9; 23-JUN-2008 12:56:50; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33015
7; 2830.9; 23-JUN-2008 13:03:13; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33015
8; 2952.6; 23-JUN-2008 13:05:15; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33015
9; 3179.0; 23-JUN-2008 13:09:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33015
10; 3446.2; 23-JUN-2008 13:13:29; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33015
11; 3867.9; 23-JUN-2008 13:20:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;33015
12; 4065.4; 23-JUN-2008 13:23:48; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;33015
13; 4270.7; 23-JUN-2008 13:27:13; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33015
14; 4416.6; 23-JUN-2008 13:29:39; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33015
15; 4649.1; 23-JUN-2008 13:33:32; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;33015
16; 4939.4; 23-JUN-2008 13:38:22; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33015
17; 5422.6; 23-JUN-2008 13:46:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33015
18; 6025.2; 23-JUN-2008 13:56:28; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;33015
19; 6422.3; 23-JUN-2008 14:03:05; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;33015
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21; 7183.9; 23-JUN-2008 14:15:47; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33015
22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
23; 7366.0; 23-JUN-2008 14:18:49; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33015
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2; 1732.3; 23-JUN-2008 14:25:31; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33016
3; 1988.4; 23-JUN-2008 14:29:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;33016
4; 2132.4; 23-JUN-2008 14:32:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33016

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6; 2446.9; 23-JUN-2008 14:37:25; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33016  
7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016  
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016  
9; 3179.1; 23-JUN-2008 14:49:38; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33016  
10; 3446.3; 23-JUN-2008 14:54:05; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33016  
11; 3867.8; 23-JUN-2008 15:01:06; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;33016  
12; 4065.4; 23-JUN-2008 15:04:24; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33016  
13; 4270.9; 23-JUN-2008 15:07:49; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33016  
14; 4649.4; 23-JUN-2008 15:14:08; Dark ; 57.5; 50; 13Alp Ari ; 2.01; 4250;occ; 115; 0;33016  
15; 4939.8; 23-JUN-2008 15:18:58; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33016  
16; 5423.3; 23-JUN-2008 15:27:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33016  
17; 6025.7; 23-JUN-2008 15:37:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;33016  
18; 6423.3; 23-JUN-2008 15:43:42; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33016  
19; 6729.2; 23-JUN-2008 15:48:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33016  
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21; 7285.0; 23-JUN-2008 15:58:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33016  
22; 7366.4; 23-JUN-2008 15:59:25; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;33016

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5; 2132.2; 23-JUN-2008 16:12:47; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;33017  
6; 2274.9; 23-JUN-2008 16:15:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33017  
7; 2446.9; 23-JUN-2008 16:18:01; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33017  
8; 2830.4; 23-JUN-2008 16:24:25; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33017  
9; 2952.5; 23-JUN-2008 16:26:27; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33017  
10; 3179.2; 23-JUN-2008 16:30:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33017  
11; 3446.2; 23-JUN-2008 16:34:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33017  
12; 3867.4; 23-JUN-2008 16:41:42; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;33017  
13; 4065.4; 23-JUN-2008 16:45:00; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;33017  
14; 4270.9; 23-JUN-2008 16:48:25; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33017  
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16; 4940.1; 23-JUN-2008 16:59:34; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;33017  
17; 5424.0; 23-JUN-2008 17:07:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33017  
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19; 6424.3; 23-JUN-2008 17:24:19; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;33017  
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21; 7184.4; 23-JUN-2008 17:36:59; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33017

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3; 1330.6; 23-JUN-2008 17:40:01; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;33018  
4; 1628.7; 23-JUN-2008 17:44:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33018  
5; 1732.6; 23-JUN-2008 17:46:43; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33018  
6; 1988.1; 23-JUN-2008 17:50:59; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;33018  
7; 2132.0; 23-JUN-2008 17:53:22; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;33018  
8; 2274.9; 23-JUN-2008 17:55:45; Bright; 51.0; 127; 27Bet Her ; 2.78; 4700;occ; 102; 0;33018  
9; 2446.8; 23-JUN-2008 17:58:37; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33018  
10; 2830.2; 23-JUN-2008 18:05:01; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33018  
11; 2952.4; 23-JUN-2008 18:07:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33018  
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13; 3446.1; 23-JUN-2008 18:15:17; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33018  
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17; 4649.9; 23-JUN-2008 18:35:20; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;33018  
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19; 5424.7; 23-JUN-2008 18:48:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33018  
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4; 1628.9; 23-JUN-2008 19:25:35; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33019



5; 1732.6; 23-JUN-2008 19:27:19; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33019  
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7; 2131.8; 23-JUN-2008 19:33:58; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33019  
8; 2274.8; 23-JUN-2008 19:36:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33019  
9; 2446.8; 23-JUN-2008 19:39:13; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33019  
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11; 2952.3; 23-JUN-2008 19:47:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33019  
12; 3179.3; 23-JUN-2008 19:51:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33019  
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14; 3866.8; 23-JUN-2008 20:02:53; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;33019  
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19; 5425.3; 23-JUN-2008 20:28:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33019  
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4; 696.4; 24-JUN-2008 01:52:26; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33023  
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11; 2131.1; 24-JUN-2008 02:16:21; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;33023  
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13; 2446.6; 24-JUN-2008 02:21:37; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33023  
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9; 697.1; 24-JUN-2008 03:33:03; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33024  
10; 1149.9; 24-JUN-2008 03:40:36; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33024  
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15; 1987.6; 24-JUN-2008 03:54:33; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33024  
16; 2131.1; 24-JUN-2008 03:56:57; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33024  
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 3; 2130.3; 24-JUN-2008 12:19:56; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33029  
 4; 2275.4; 24-JUN-2008 12:22:21; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33029  
 5; 2446.4; 24-JUN-2008 12:25:12; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;33029  
 6; 2827.3; 24-JUN-2008 12:31:33; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33029  
 7; 2952.0; 24-JUN-2008 12:33:38; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33029  
 8; 3180.5; 24-JUN-2008 12:37:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33029  
 9; 3446.2; 24-JUN-2008 12:41:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33029  
 10; 3900.5; 24-JUN-2008 12:49:26; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;33029  
 11; 4065.3; 24-JUN-2008 12:52:11; Bright; 53.5; 160; 23Gam Per ; 2.93; 4700;occ; 107; 0;33029  
 12; 4289.6; 24-JUN-2008 12:55:55; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;33029  
 13; 4652.8; 24-JUN-2008 13:01:58; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;33029  
 14; 4943.9; 24-JUN-2008 13:06:50; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33029  
 15; 5432.3; 24-JUN-2008 13:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33029  
 16; 6031.3; 24-JUN-2008 13:24:57; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33029  
 17; 6436.1; 24-JUN-2008 13:31:42; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;33029  
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 19; 7187.3; 24-JUN-2008 13:44:13; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33029  
 20; 7288.0; 24-JUN-2008 13:45:54; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33029  
 21; 7369.8; 24-JUN-2008 13:47:15; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33029  
 22; 7444.7; 24-JUN-2008 13:48:30; Bright; 43.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 86; 0;33029

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 3; 2130.2; 24-JUN-2008 14:00:32; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;33030  
 4; 2275.6; 24-JUN-2008 14:02:57; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33030  
 5; 2446.5; 24-JUN-2008 14:05:48; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33030  
 6; 2827.1; 24-JUN-2008 14:12:09; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33030  
 7; 2952.2; 24-JUN-2008 14:14:14; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33030  
 8; 3180.7; 24-JUN-2008 14:18:02; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;33030  
 9; 3446.2; 24-JUN-2008 14:22:28; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;33030  
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 11; 4065.4; 24-JUN-2008 14:32:47; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;33030  
 12; 4289.5; 24-JUN-2008 14:36:31; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;33030  
 13; 4944.4; 24-JUN-2008 14:47:26; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33030  
 14; 5433.1; 24-JUN-2008 14:55:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33030  
 15; 6031.7; 24-JUN-2008 15:05:33; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33030  
 16; 6437.2; 24-JUN-2008 15:12:19; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;33030  
 17; 6736.8; 24-JUN-2008 15:17:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33030  
 18; 7187.6; 24-JUN-2008 15:24:49; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33030  
 19; 7288.2; 24-JUN-2008 15:26:30; Dark ; 37.5; 25; 35Lam Sco ; 1.62; 28000;occ; 75; 0;33030  
 20; 7370.2; 24-JUN-2008 15:27:52; Dark ; 47.5; 116; 19Del Sgr ; 2.70; 4100;occ; 95; 0;33030  
 21; 7444.8; 24-JUN-2008 15:29:06; Bright; 23.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 46; 0;33030

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 3; 1986.9; 24-JUN-2008 15:38:44; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33031  
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 5; 2275.6; 24-JUN-2008 15:43:33; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33031  
 6; 2446.3; 24-JUN-2008 15:46:24; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33031  
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 8; 2952.0; 24-JUN-2008 15:54:49; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33031  
 9; 3180.8; 24-JUN-2008 15:58:38; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33031  
 10; 3446.2; 24-JUN-2008 16:03:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33031  
 11; 3900.2; 24-JUN-2008 16:10:38; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;33031  
 12; 4065.4; 24-JUN-2008 16:13:23; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33031  
 13; 4289.6; 24-JUN-2008 16:17:07; Bright; 41.0; 79; 26Bet Per ; 2.31; 13100;occ; 82; 0;33031  
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 15; 5433.9; 24-JUN-2008 16:36:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33031  
 16; 6032.2; 24-JUN-2008 16:46:10; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;33031  
 17; 6438.2; 24-JUN-2008 16:52:56; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;33031  
 18; 6737.4; 24-JUN-2008 16:57:55; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33031  
 19; 7187.9; 24-JUN-2008 17:05:25; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33031

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 6; 2130.0; 24-JUN-2008 17:21:43; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;33032  
 7; 2275.7; 24-JUN-2008 17:24:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33032  
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 11; 3180.9; 24-JUN-2008 17:39:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33032  
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 13; 3899.9; 24-JUN-2008 17:51:13; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;33032  
 14; 4065.3; 24-JUN-2008 17:53:59; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;33032  
 15; 4289.7; 24-JUN-2008 17:57:43; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;33032  
 16; 4945.1; 24-JUN-2008 18:08:39; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;33032  
 17; 5434.6; 24-JUN-2008 18:16:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33032  
 18; 6032.7; 24-JUN-2008 18:26:46; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;33032  
 19; 6439.2; 24-JUN-2008 18:33:33; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;33032  
 20; 6737.9; 24-JUN-2008 18:38:31; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33032

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 3; 1334.7; 24-JUN-2008 18:49:04; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;33033  
 4; 1409.4; 24-JUN-2008 18:50:19; Bright; 41.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 83; 0;33033  
 5; 1630.9; 24-JUN-2008 18:54:00; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33033  
 6; 1986.8; 24-JUN-2008 18:59:56; Bright; 48.5; 126; 60Bet Oph ; 2.77; 4250;occ; 97; 0;33033  
 7; 2129.8; 24-JUN-2008 19:02:19; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;33033  
 8; 2275.7; 24-JUN-2008 19:04:45; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33033  
 9; 2446.5; 24-JUN-2008 19:07:36; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33033  
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 14; 3899.7; 24-JUN-2008 19:31:49; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;33033  
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 18; 5435.3; 24-JUN-2008 19:57:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33033  
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 21; 6738.4; 24-JUN-2008 20:19:08; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33033

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7; 1335.7; 25-JUN-2008 01:31:29; Dark ; 57.0; 116; 19Del Sgr ; 2.70; 4100;occ; 114; 0;33037
8; 1410.3; 25-JUN-2008 01:32:43; Bright; 43.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 87; 0;33037
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8; 408.1; 25-JUN-2008 02:56:37; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 0;33038
9; 704.6; 25-JUN-2008 03:01:33; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;33038
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6; 2815.0; 28-JUN-2008 10:24:53; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33085
7; 2951.7; 28-JUN-2008 10:27:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33085
8; 3187.2; 28-JUN-2008 10:31:05; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;33085
9; 3445.7; 28-JUN-2008 10:35:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33085
10; 4064.0; 28-JUN-2008 10:45:42; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;33085
11; 4164.1; 28-JUN-2008 10:47:22; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33085
12; 4293.1; 28-JUN-2008 10:49:31; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;33085
13; 4964.4; 28-JUN-2008 11:00:42; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33085
14; 5192.8; 28-JUN-2008 11:04:30; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33085
15; 5697.6; 28-JUN-2008 11:12:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33085
16; 6056.7; 28-JUN-2008 11:18:54; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33085
17; 6344.8; 28-JUN-2008 11:23:42; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33085
18; 6500.2; 28-JUN-2008 11:26:18; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33085
19; 6765.5; 28-JUN-2008 11:30:43; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33085
20; 7005.9; 28-JUN-2008 11:34:43; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;33085
21; 7092.7; 28-JUN-2008 11:36:10; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33085
22; 7200.3; 28-JUN-2008 11:37:58; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33085
23; 7300.5; 28-JUN-2008 11:39:38; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33085
24; 7384.1; 28-JUN-2008 11:41:02; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33085
25; 7674.2; 28-JUN-2008 11:45:52; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33085

```

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080628\_114609\_000057732069\_00467\_33086\_1369.N1

1;	1655.4;	28-JUN-2008	11:46:09;	Bright;	37.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	74;	34;	33086	
2;	1742.9;	28-JUN-2008	11:47:36;	Bright;	35.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	70;	0;	33086	
3;	1983.2;	28-JUN-2008	11:51:37;	Bright;	38.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	77;	0;	33086	
4;	2124.1;	28-JUN-2008	11:53:58;	Bright;	36.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	72;	0;	33086	
5;	2279.9;	28-JUN-2008	11:56:33;	Bright;	35.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	70;	0;	33086	
6;	2446.5;	28-JUN-2008	11:59:20;	Bright;	34.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	69;	0;	33086	
7;	2814.7;	28-JUN-2008	12:05:28;	Bright;	37.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	75;	0;	33086	
8;	2951.7;	28-JUN-2008	12:07:45;	Bright;	37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	33086	
9;	3187.4;	28-JUN-2008	12:11:41;	Bright;	34.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	69;	0;	33086	
10;	3445.8;	28-JUN-2008	12:15:59;	Bright;	33.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	66;	0;	33086	
11;	4064.1;	28-JUN-2008	12:26:18;	Bright;	45.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	91;	0;	33086	
12;	4164.3;	28-JUN-2008	12:27:58;	Bright;	33.0;	175;	39Del	Per	;	3.01;	19400;	occ;	66;	0;	33086	
13;	4293.1;	28-JUN-2008	12:30:06;	Bright;	37.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	74;	0;	33086	
14;	4964.7;	28-JUN-2008	12:41:18;	Dark	;	45.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	90;	0;	33086
15;	5193.1;	28-JUN-2008	12:45:07;	Dark	;	40.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	80;	0;	33086
16;	5698.2;	28-JUN-2008	12:53:32;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33086
17;	6057.2;	28-JUN-2008	12:59:31;	Dark	;	50.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	100;	0;	33086
18;	6345.1;	28-JUN-2008	13:04:19;	Dark	;	36.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	73;	0;	33086
19;	6500.9;	28-JUN-2008	13:06:54;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	33086
20;	6766.1;	28-JUN-2008	13:11:20;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	33086
21;	7006.1;	28-JUN-2008	13:15:19;	Dark	;	38.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	76;	0;	33086
22;	7092.9;	28-JUN-2008	13:16:46;	Dark	;	35.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	71;	0;	33086
23;	7200.6;	28-JUN-2008	13:18:34;	Dark	;	41.0;	40;	The	Sco	;	1.86;	7100;	occ;	82;	0;	33086
24;	7300.6;	28-JUN-2008	13:20:14;	Dark	;	41.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	82;	0;	33086
25;	7384.4;	28-JUN-2008	13:21:38;	Dark	;	44.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	89;	0;	33086

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1;	1638.6;	28-JUN-2008	13:26:28;	Bright;	36.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	73;	0;	33087	
2;	1743.3;	28-JUN-2008	13:28:13;	Bright;	35.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	70;	0;	33087	
3;	1983.1;	28-JUN-2008	13:32:12;	Bright;	38.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	77;	0;	33087	
4;	2124.0;	28-JUN-2008	13:34:33;	Bright;	36.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	72;	0;	33087	
5;	2280.2;	28-JUN-2008	13:37:09;	Bright;	34.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	68;	0;	33087	
6;	2446.7;	28-JUN-2008	13:39:56;	Bright;	36.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	72;	0;	33087	
7;	2814.6;	28-JUN-2008	13:46:04;	Bright;	38.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	77;	0;	33087	
8;	2951.7;	28-JUN-2008	13:48:21;	Bright;	36.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	73;	0;	33087	
9;	3187.5;	28-JUN-2008	13:52:17;	Bright;	33.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	67;	0;	33087	
10;	3445.8;	28-JUN-2008	13:56:35;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	33087	
11;	4064.2;	28-JUN-2008	14:06:54;	Bright;	35.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	70;	0;	33087	
12;	4164.3;	28-JUN-2008	14:08:34;	Bright;	33.5;	175;	39Del	Per	;	3.01;	19400;	occ;	67;	0;	33087	
13;	4293.3;	28-JUN-2008	14:10:43;	Bright;	38.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	76;	0;	33087	
14;	4965.2;	28-JUN-2008	14:21:54;	Dark	;	47.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	95;	0;	33087
15;	5193.4;	28-JUN-2008	14:25:43;	Dark	;	41.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	83;	0;	33087
16;	5698.8;	28-JUN-2008	14:34:08;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33087
17;	6057.8;	28-JUN-2008	14:40:07;	Dark	;	47.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	95;	0;	33087
18;	6345.3;	28-JUN-2008	14:44:55;	Dark	;	36.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	72;	0;	33087
19;	6501.6;	28-JUN-2008	14:47:31;	Dark	;	42.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	84;	0;	33087
20;	6766.7;	28-JUN-2008	14:51:56;	Dark	;	41.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	82;	0;	33087
21;	7006.3;	28-JUN-2008	14:55:56;	Dark	;	40.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	81;	0;	33087
22;	7093.2;	28-JUN-2008	14:57:23;	Dark	;	37.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	74;	0;	33087
23;	7200.9;	28-JUN-2008	14:59:10;	Dark	;	42.5;	40;	The	Sco	;	1.86;	7100;	occ;	85;	0;	33087
24;	7300.9;	28-JUN-2008	15:00:50;	Dark	;	41.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	83;	0;	33087
25;	7384.7;	28-JUN-2008	15:02:14;	Dark	;	43.0;	116;	19Del	Sgr	;	2.70;	4100;	occ;	86;	0;	33087

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1;	1638.6;	28-JUN-2008	15:07:04;	Bright;	35.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	71;	0;	33088	
2;	1743.5;	28-JUN-2008	15:08:49;	Bright;	35.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	71;	0;	33088	
3;	1983.1;	28-JUN-2008	15:12:48;	Bright;	37.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	75;	0;	33088	
4;	2123.9;	28-JUN-2008	15:15:09;	Bright;	39.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	78;	0;	33088	
5;	2280.2;	28-JUN-2008	15:17:45;	Bright;	36.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	72;	0;	33088	
6;	2446.7;	28-JUN-2008	15:20:32;	Bright;	37.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	75;	0;	33088	
7;	2814.5;	28-JUN-2008	15:26:40;	Bright;	36.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	73;	0;	33088	
8;	2951.7;	28-JUN-2008	15:28:57;	Bright;	36.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	72;	0;	33088	
9;	3187.7;	28-JUN-2008	15:32:53;	Bright;	35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	33088	
10;	3445.9;	28-JUN-2008	15:37:11;	Bright;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	33088	
11;	4064.2;	28-JUN-2008	15:47:29;	Bright;	45.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	90;	0;	33088	
12;	4164.5;	28-JUN-2008	15:49:10;	Bright;	36.0;	175;	39Del	Per	;	3.01;	19400;	occ;	72;	0;	33088	
13;	4293.3;	28-JUN-2008	15:51:19;	Bright;	35.5;	79;	26Bet	Per	;	2.31;	13100;	occ;	71;	0;	33088	
14;	4965.8;	28-JUN-2008	16:02:31;	Dark	;	47.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	95;	0;	33088
15;	5193.8;	28-JUN-2008	16:06:19;	Dark	;	38.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	76;	0;	33088



16; 5699.4; 28-JUN-2008 16:14:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33088  
 17; 6058.3; 28-JUN-2008 16:20:43; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;33088  
 18; 6345.6; 28-JUN-2008 16:25:31; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33088  
 19; 6502.3; 28-JUN-2008 16:28:07; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33088  
 20; 6767.3; 28-JUN-2008 16:32:33; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33088  
 21; 7006.6; 28-JUN-2008 16:36:32; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;33088  
 22; 7093.6; 28-JUN-2008 16:37:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33088  
 23; 7201.2; 28-JUN-2008 16:39:46; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33088

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1; 1265.2; 28-JUN-2008 16:41:26; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;33089  
 2; 1349.0; 28-JUN-2008 16:42:50; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;33089  
 3; 1638.7; 28-JUN-2008 16:47:40; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33089  
 4; 1743.5; 28-JUN-2008 16:49:25; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33089  
 5; 1983.1; 28-JUN-2008 16:53:24; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33089  
 6; 2123.9; 28-JUN-2008 16:55:45; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33089  
 7; 2280.4; 28-JUN-2008 16:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33089  
 8; 2446.7; 28-JUN-2008 17:01:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33089  
 9; 2814.2; 28-JUN-2008 17:07:15; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33089  
 10; 2951.7; 28-JUN-2008 17:09:33; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;33089  
 11; 3187.8; 28-JUN-2008 17:13:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;33089  
 12; 3445.8; 28-JUN-2008 17:17:47; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33089  
 13; 4064.2; 28-JUN-2008 17:28:05; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;33089  
 14; 4164.5; 28-JUN-2008 17:29:46; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33089  
 15; 4293.4; 28-JUN-2008 17:31:55; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;33089  
 16; 4966.1; 28-JUN-2008 17:43:07; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;33089  
 17; 5193.9; 28-JUN-2008 17:46:55; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;33089  
 18; 5700.0; 28-JUN-2008 17:55:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33089  
 19; 6058.8; 28-JUN-2008 18:01:20; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33089  
 20; 6345.8; 28-JUN-2008 18:06:07; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33089  
 21; 6502.8; 28-JUN-2008 18:08:44; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33089  
 22; 6767.7; 28-JUN-2008 18:13:09; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33089  
 23; 7006.7; 28-JUN-2008 18:17:08; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;33089  
 24; 7093.6; 28-JUN-2008 18:18:35; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;33089

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1; 1057.5; 28-JUN-2008 18:18:35; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33090  
 2; 1165.3; 28-JUN-2008 18:20:23; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;33090  
 3; 1265.2; 28-JUN-2008 18:22:02; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33090  
 4; 1349.2; 28-JUN-2008 18:23:26; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;33090  
 5; 1638.9; 28-JUN-2008 18:28:16; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33090  
 6; 1743.7; 28-JUN-2008 18:30:01; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33090  
 7; 1983.1; 28-JUN-2008 18:34:00; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;33090  
 8; 2123.8; 28-JUN-2008 18:36:21; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33090  
 9; 2280.4; 28-JUN-2008 18:38:58; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33090  
 10; 2446.7; 28-JUN-2008 18:41:44; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33090  
 11; 2813.9; 28-JUN-2008 18:47:51; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33090  
 12; 2951.6; 28-JUN-2008 18:50:09; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33090  
 13; 3187.9; 28-JUN-2008 18:54:05; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33090  
 14; 3445.8; 28-JUN-2008 18:58:23; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33090  
 15; 4064.0; 28-JUN-2008 19:08:41; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;33090  
 16; 4164.4; 28-JUN-2008 19:10:22; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;33090  
 17; 4293.3; 28-JUN-2008 19:12:30; Bright; 41.0; 79; 26Bet Per ; 2.31; 13100;occ; 82; 0;33090  
 18; 4966.3; 28-JUN-2008 19:23:44; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33090  
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 4; 1268.5; 29-JUN-2008 19:31:05; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;33105  
 5; 1352.8; 29-JUN-2008 19:32:29; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;33105  
 6; 1425.4; 29-JUN-2008 19:33:42; Bright; 42.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 85; 0;33105  
 7; 1641.0; 29-JUN-2008 19:37:17; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33105  
 8; 1746.0; 29-JUN-2008 19:39:02; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33105  
 9; 1982.6; 29-JUN-2008 19:42:59; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33105  
 10; 2122.9; 29-JUN-2008 19:45:19; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33105  
 11; 2282.2; 29-JUN-2008 19:47:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33105  
 12; 2447.3; 29-JUN-2008 19:50:43; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33105  
 13; 2811.2; 29-JUN-2008 19:56:47; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33105  
 14; 2952.1; 29-JUN-2008 19:59:08; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33105  
 15; 3189.9; 29-JUN-2008 20:03:06; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33105  
 16; 3445.7; 29-JUN-2008 20:07:22; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33105  
 17; 4063.4; 29-JUN-2008 20:17:40; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;33105  
 18; 4165.4; 29-JUN-2008 20:19:22; Bright; 53.0; 175; 39Del Per ; 3.01; 19400;occ; 106; 0;33105  
 19; 4294.2; 29-JUN-2008 20:21:30; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;33105  
 20; 4972.4; 29-JUN-2008 20:32:49; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;33105  
 21; 5197.8; 29-JUN-2008 20:36:34; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;33105  
 22; 5708.9; 29-JUN-2008 20:45:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33105  
 23; 6066.2; 29-JUN-2008 20:51:02; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;33105  
 24; 6349.2; 29-JUN-2008 20:55:45; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33105  
 25; 6512.4; 29-JUN-2008 20:58:29; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33105  
 26; 6775.6; 29-JUN-2008 21:02:52; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33105