

# GOMOS Daily Report 10-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	12JUN2008 05:32:25
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (10JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

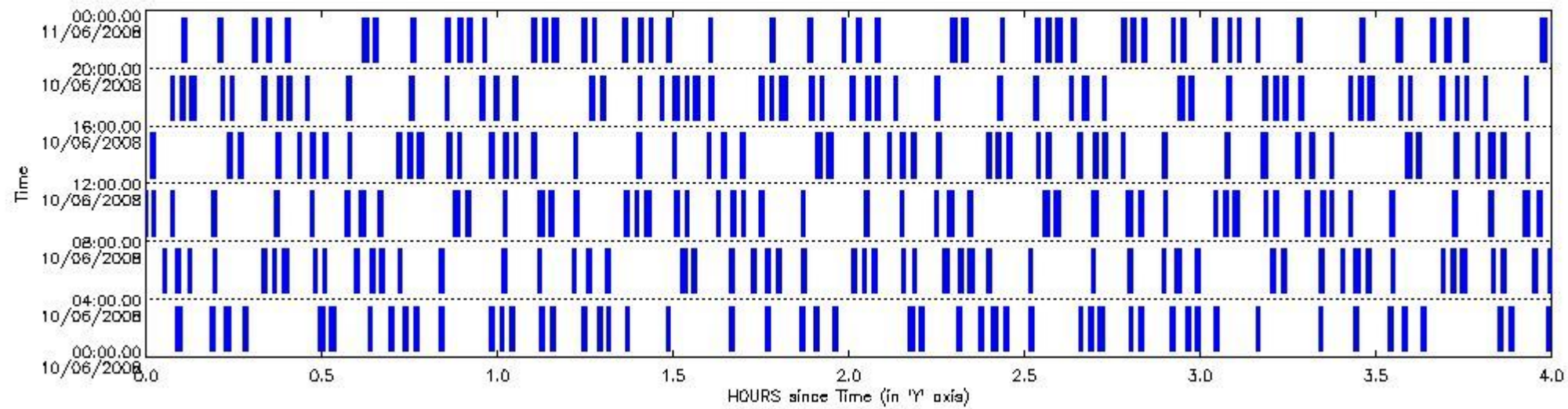
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

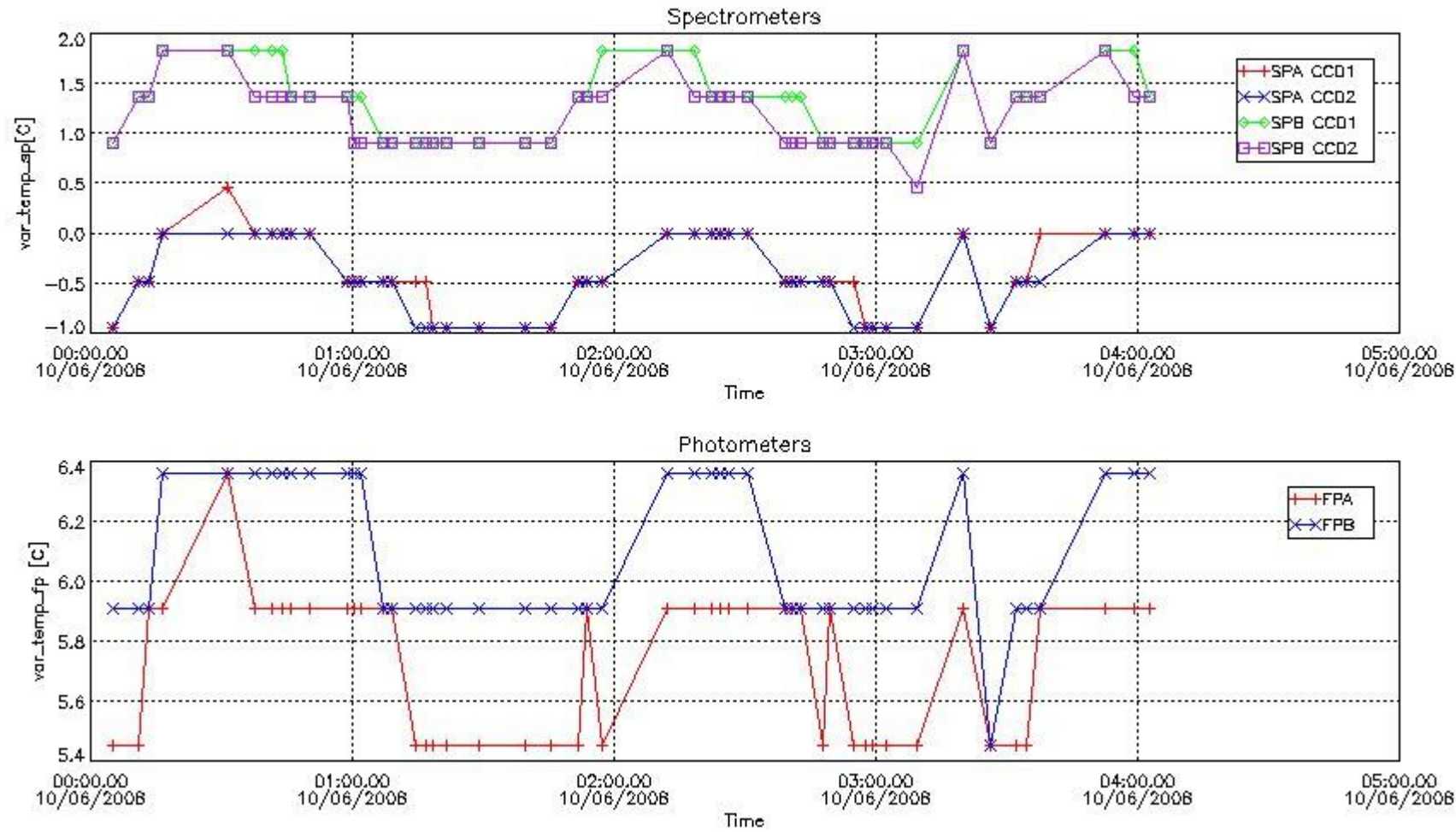
No missing products.

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

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080610_000504_000000582069_00202_32821_6551.N1	10-JUN-2008 00:05:04	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	32821	No
2	GOM_TRA_1PNPDE20080610_001059_000000382069_00202_32821_6552.N1	10-JUN-2008 00:10:59	Bright	37.500	73	57Gam1And	2.2600	13100.	75	32821	No
3	GOM_TRA_1PNPDE20080610_001318_000000572069_00202_32821_6553.N1	10-JUN-2008 00:13:18	Twilight	57.000	53	43Bet And	2.0480	3300.0	114	32821	No
4	GOM_TRA_1PNPDE20080610_001636_000000462069_00202_32821_6554.N1	10-JUN-2008 00:16:36	Twilight	46.000	50	13Alp Ari	2.0070	4250.0	92	32821	No
5	GOM_TRA_1PNPDE20080610_003120_000000532069_00202_32821_6616.N1	10-JUN-2008 00:31:20	Dark	53.000	52	16Bet Cet	2.0370	4500.0	106	32821	No
6	GOM_TRA_1PNPDE20080610_003749_000000412069_00202_32821_6617.N1	10-JUN-2008 00:37:49	Dark	41.000	84	Alp Phe	2.3970	4500.0	82	32821	No
7	GOM_TRA_1PNPDE20080610_004132_000000442069_00203_32822_6618.N1	10-JUN-2008 00:41:32	Dark	44.000	18	24Alp PsA	1.1660	9700.0	88	32822	No
8	GOM_TRA_1PNPDE20080610_004345_000000502069_00203_32822_6619.N1	10-JUN-2008 00:43:45	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	32822	No
9	GOM_TRA_1PNPDE20080610_004546_000000482069_00203_32822_6620.N1	10-JUN-2008 00:45:46	Dark	47.500	31	Alp Gru	1.7340	15200.	95	32822	No
10	GOM_TRA_1PNPDE20080610_005005_000000402069_00203_32822_6621.N1	10-JUN-2008 00:50:05	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	32822	No
11	GOM_TRA_1PNPDE20080610_005837_000000442069_00203_32822_6622.N1	10-JUN-2008 00:58:37	Straylight	43.500	40	The Sco	1.8590	7100.0	87	32822	No
12	GOM_TRA_1PNPDE20080610_010022_000000442069_00203_32822_6623.N1	10-JUN-2008 01:00:22	Twilight	44.000	25	35Lam Sco	1.6200	28000.	88	32822	No

13	GOM_TRA_1PNPDE20080610_010200_000000582069_00203_32822_6624.N1	10-JUN-2008 01:02:00	Bright	58.000	57	34Sig Sgr	2.0660	26000.	116	32822	No
14	GOM_TRA_1PNPDE20080610_010713_000000412069_00203_32822_6625.N1	10-JUN-2008 01:07:13	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	32822	No
15	GOM_TRA_1PNPDE20080610_010859_000000502069_00203_32822_6626.N1	10-JUN-2008 01:08:59	Bright	49.500	98	13Zet Oph	2.5710	30000.	99	32822	No
16	GOM_TRA_1PNPDE20080610_011419_000000482069_00203_32822_6627.N1	10-JUN-2008 01:14:19	Bright	47.500	126	60Bet Oph	2.7700	4250.0	95	32822	No
17	GOM_TRA_1PNPDE20080610_011657_000000482069_00203_32822_6628.N1	10-JUN-2008 01:16:57	Bright	48.000	59	55Alp Oph	2.0800	8900.0	96	32822	No
18	GOM_TRA_1PNPDE20080610_011835_000000392069_00203_32822_6629.N1	10-JUN-2008 01:18:35	Bright	39.000	127	27Bet Her	2.7810	4700.0	78	32822	No
19	GOM_TRA_1PNPDE20080610_012145_000000412069_00203_32822_6630.N1	10-JUN-2008 01:21:45	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	32822	No
20	GOM_TRA_1PNPDE20080610_012850_000000382069_00203_32822_6631.N1	10-JUN-2008 01:28:50	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	32822	No
21	GOM_TRA_1PNPDE20080610_013933_000000472069_00203_32822_6632.N1	10-JUN-2008 01:39:33	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	32822	No
22	GOM_TRA_1PNPDE20080610_014540_000000582069_00203_32822_6633.N1	10-JUN-2008 01:45:40	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	32822	No
23	GOM_TRA_1PNPDE20080610_015134_000000552069_00203_32822_6634.N1	10-JUN-2008 01:51:34	Bright	55.000	73	57Gam1And	2.2600	13100.	110	32822	No
24	GOM_TRA_1PNPDE20080610_015354_000000572069_00203_32822_6635.N1	10-JUN-2008 01:53:54	Twilight	57.000	53	43Bet And	2.0480	3300.0	114	32822	No
25	GOM_TRA_1PNPDE20080610_015712_000000462069_00203_32822_6636.N1	10-JUN-2008 01:57:12	Twilight	46.000	50	13Alp Ari	2.0070	4250.0	92	32822	No
26	GOM_TRA_1PNPDE20080610_021157_000000552069_00203_32822_6680.N1	10-JUN-2008 02:11:57	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	32822	No
27	GOM_TRA_1PNPDE20080610_021826_000000422069_00203_32822_6681.N1	10-JUN-2008 02:18:26	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	32822	No
28	GOM_TRA_1PNPDE20080610_022209_000000402069_00204_32823_6682.N1	10-JUN-2008 02:22:09	Dark	40.000	18	24Alp PsA	1.1660	9700.0	80	32823	No
29	GOM_TRA_1PNPDE20080610_022422_000000522069_00204_32823_6683.N1	10-JUN-2008 02:24:22	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	32823	No
30	GOM_TRA_1PNPDE20080610_022623_000000482069_00204_32823_6684.N1	10-JUN-2008 02:26:23	Dark	47.500	31	Alp Gru	1.7340	15200.	95	32823	No
31	GOM_TRA_1PNPDE20080610_023042_000000422069_00204_32823_6685.N1	10-JUN-2008 02:30:42	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	32823	No
32	GOM_TRA_1PNPDE20080610_023914_000000432069_00204_32823_6686.N1	10-JUN-2008 02:39:14	Straylight	43.000	40	The Sco	1.8590	7100.0	86	32823	No
33	GOM_TRA_1PNPDE20080610_024058_000000422069_00204_32823_6687.N1	10-JUN-2008 02:40:58	Twilight	41.500	25	35Lam Sco	1.6200	28000.	83	32823	No
34	GOM_TRA_1PNPDE20080610_024237_000000582069_00204_32823_6688.N1	10-JUN-2008 02:42:37	Bright	57.500	57	34Sig Sgr	2.0660	26000.	115	32823	No
35	GOM_TRA_1PNPDE20080610_024749_000000412069_00204_32823_6689.N1	10-JUN-2008 02:47:49	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	32823	No
36	GOM_TRA_1PNPDE20080610_024935_000000392069_00204_32823_6690.N1	10-JUN-2008 02:49:35	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32823	No
37	GOM_TRA_1PNPDE20080610_025454_000000482069_00204_32823_6691.N1	10-JUN-2008 02:54:54	Bright	47.500	126	60Bet Oph	2.7700	4250.0	95	32823	No
38	GOM_TRA_1PNPDE20080610_025732_000000472069_00204_32823_6692.N1	10-JUN-2008 02:57:32	Bright	47.000	59	55Alp Oph	2.0800	8900.0	94	32823	No
39	GOM_TRA_1PNPDE20080610_025911_000000402069_00204_32823_6693.N1	10-JUN-2008 02:59:11	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	32823	No
40	GOM_TRA_1PNPDE20080610_030221_000000402069_00204_32823_6694.N1	10-JUN-2008 03:02:21	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	32823	No
41	GOM_TRA_1PNPDE20080610_030926_000000392069_00204_32823_6695.N1	10-JUN-2008 03:09:26	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	32823	No
42	GOM_TRA_1PNPDE20080610_032009_000000462069_00204_32823_6769.N1	10-JUN-2008 03:20:09	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	32823	Yes
43	GOM_TRA_1PNPDE20080610_032616_000000382069_00204_32823_6770.N1	10-JUN-2008 03:26:16	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	32823	No
44	GOM_TRA_1PNPDE20080610_033210_000000432069_00204_32823_6771.N1	10-JUN-2008 03:32:10	Bright	42.500	73	57Gam1And	2.2600	13100.	85	32823	No
45	GOM_TRA_1PNPDE20080610_033430_000000542069_00204_32823_6772.N1	10-JUN-2008 03:34:30	Twilight	54.000	53	43Bet And	2.0480	3300.0	108	32823	No
46	GOM_TRA_1PNPDE20080610_033748_000000482069_00204_32823_6773.N1	10-JUN-2008 03:37:48	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	32823	No
47	GOM_TRA_1PNPDE20080610_035234_000000522069_00204_32823_6774.N1	10-JUN-2008 03:52:34	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	32823	No
48	GOM_TRA_1PNPDE20080610_035902_000000442069_00204_32823_6775.N1	10-JUN-2008 03:59:02	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	32823	No
49	GOM_TRA_1PNPDE20080610_040247_000000402069_00205_32824_6776.N1	10-JUN-2008 04:02:47	Dark	40.000	18	24Alp PsA	1.1660	9700.0	80	32824	No

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



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

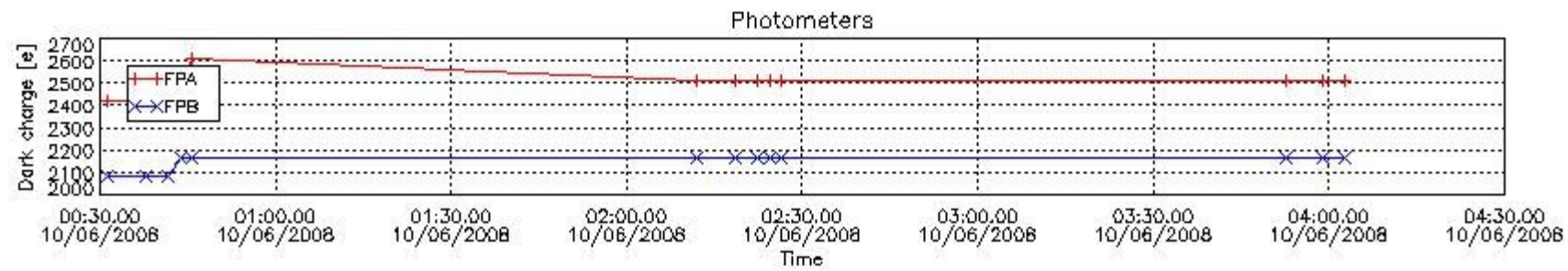
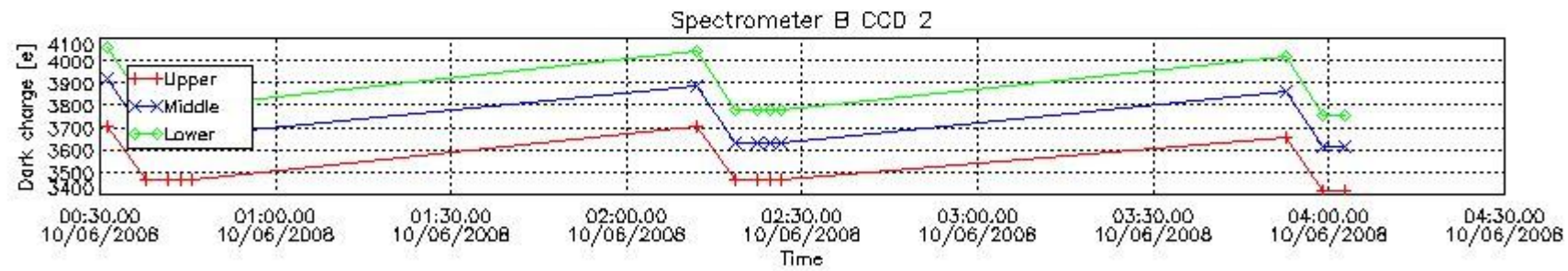
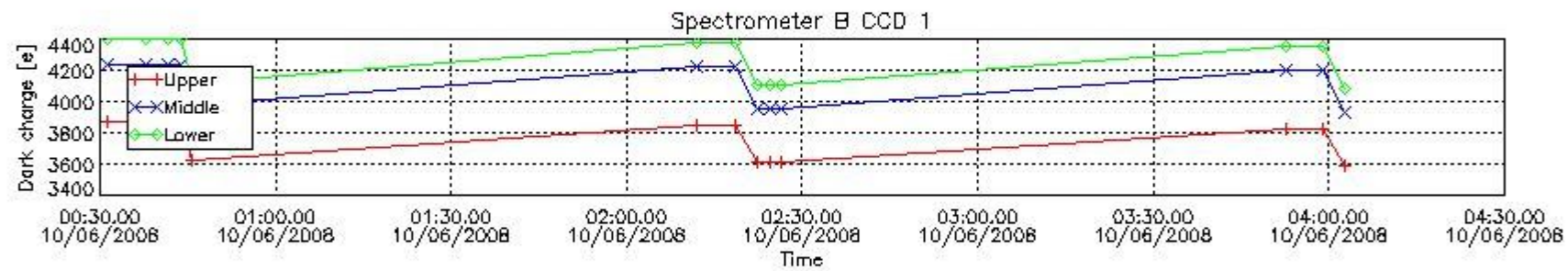
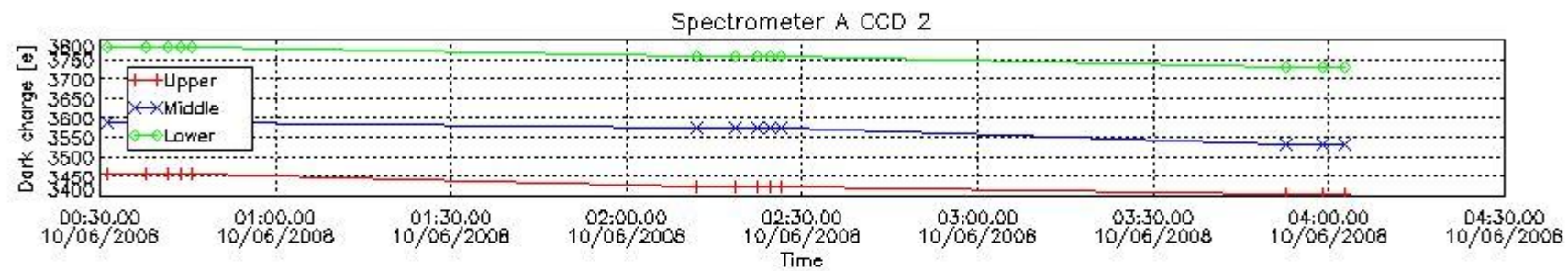
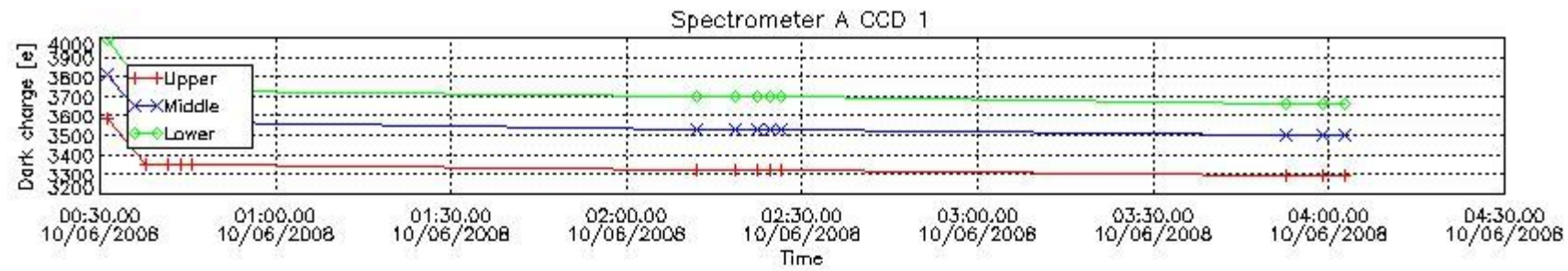
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





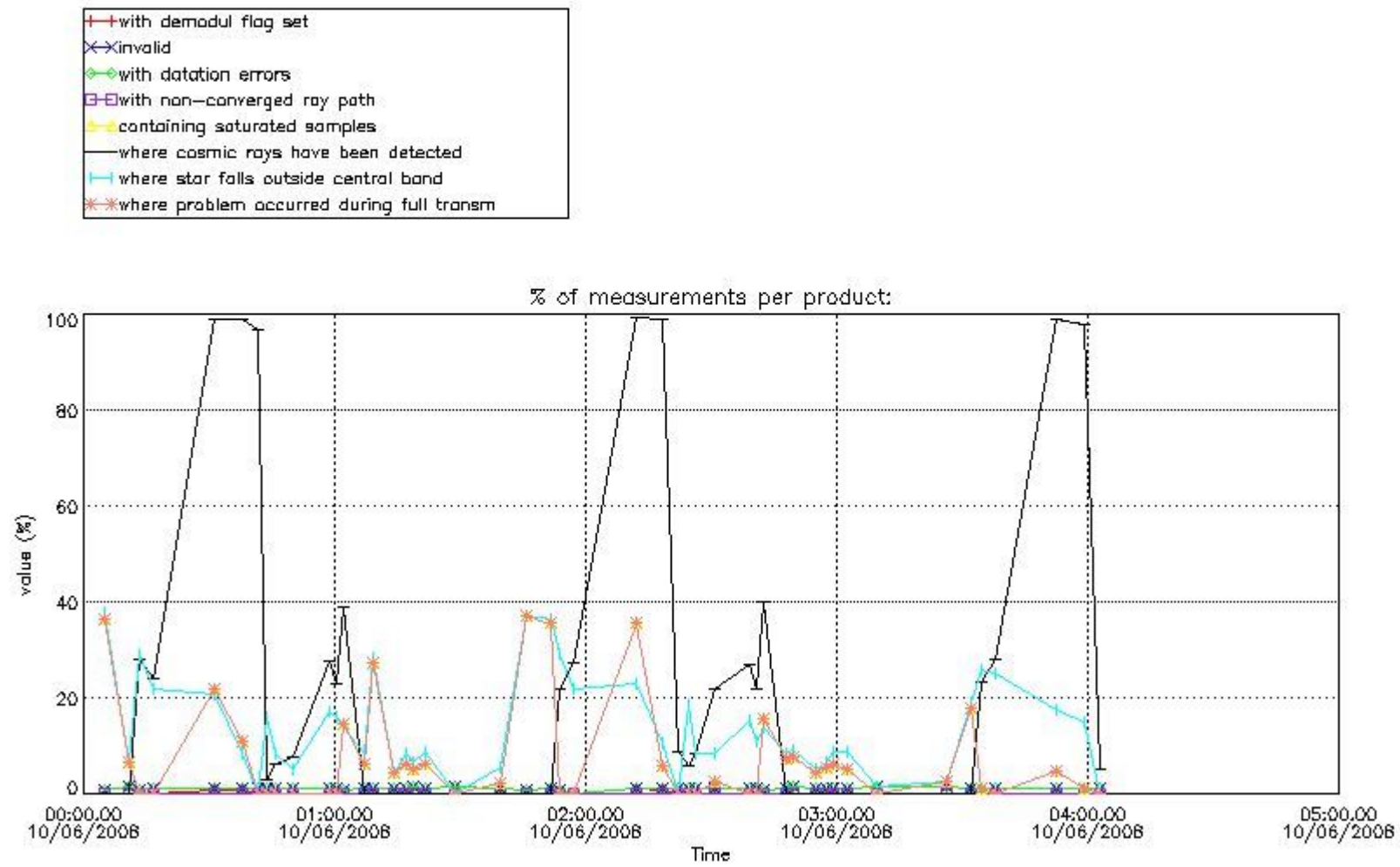
## 5. Demodulation flag and quality information monitoring

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:

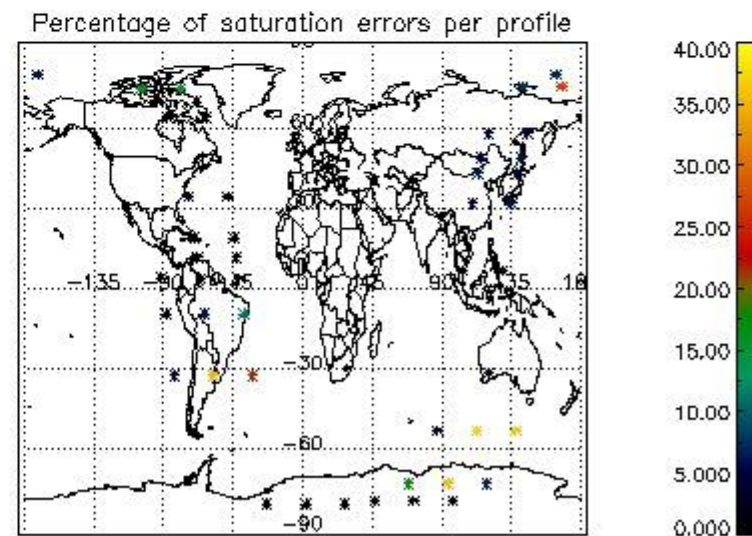
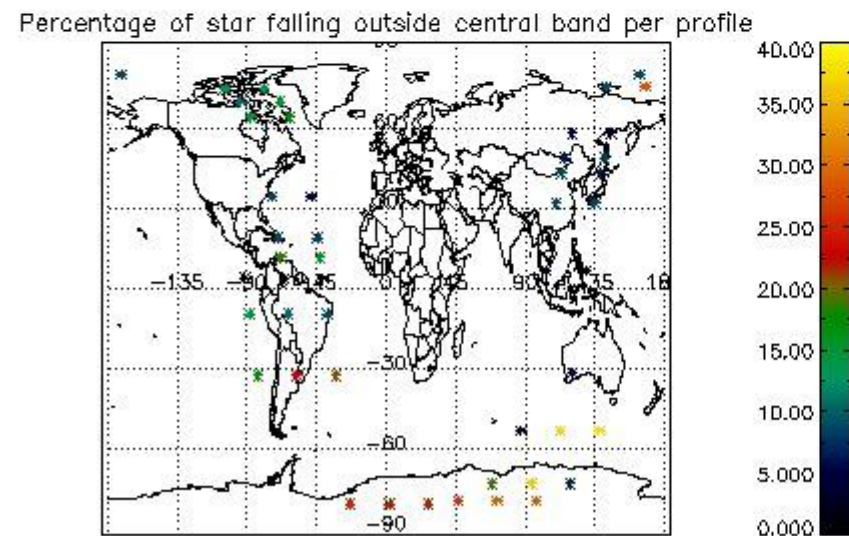
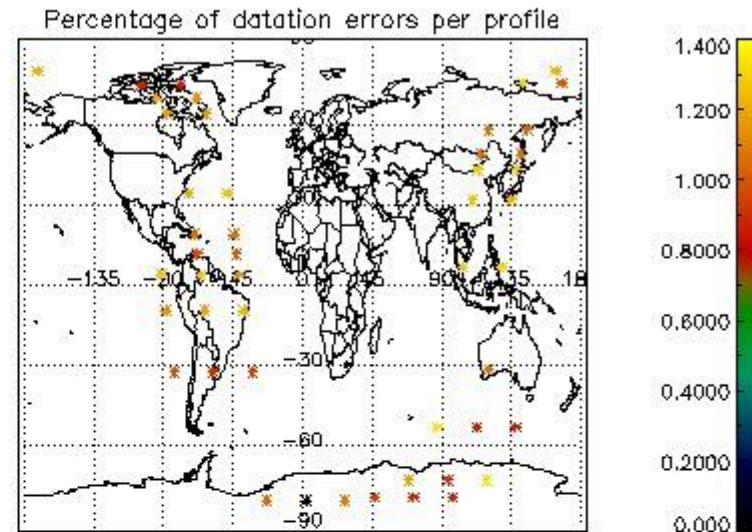
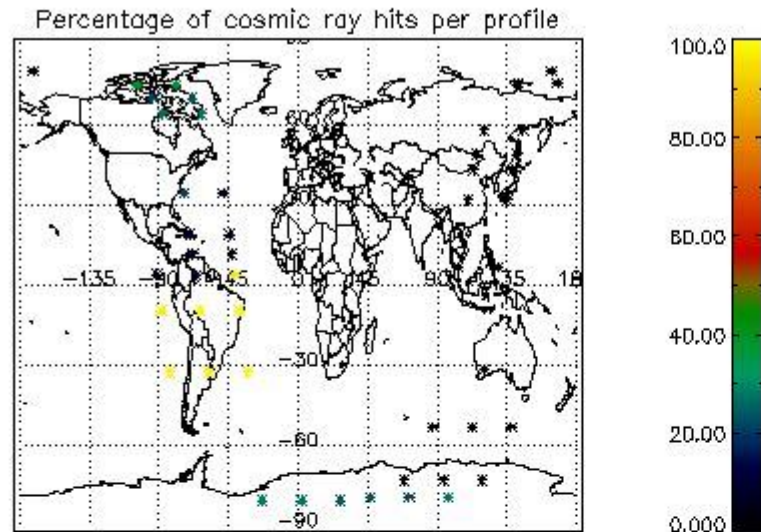
At least one measurement with demodulation flag set:	27.0833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





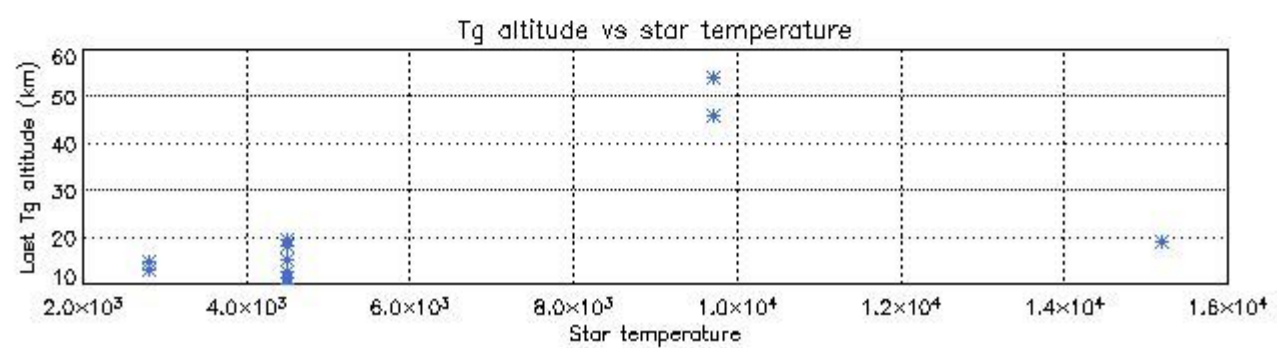
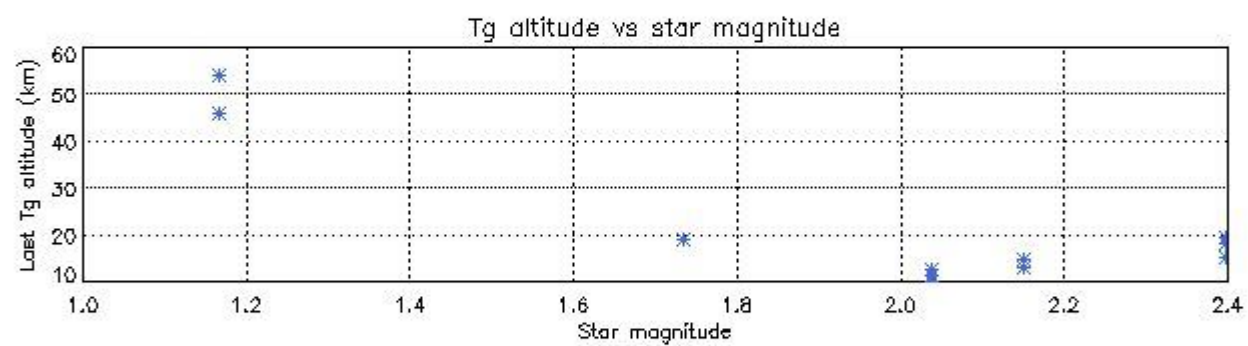
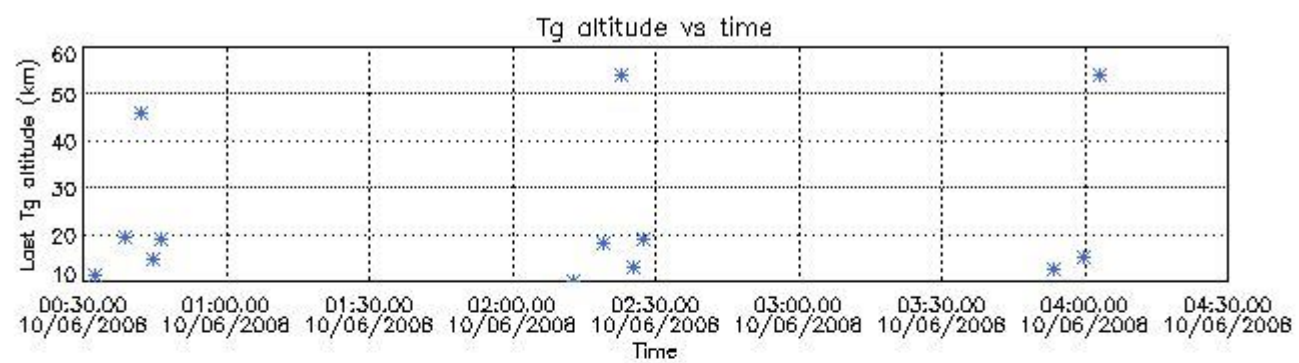
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	23.586	17.496	10.258
St. deviation:	16.241	6.7324	0.76911
Maximum:	54.101	27.648	10.760
Minimum:	10.092	3.7368	9.3724
Number of data:	13.000	23.000	3.0000

### 6.2 Plot for DARK limb products

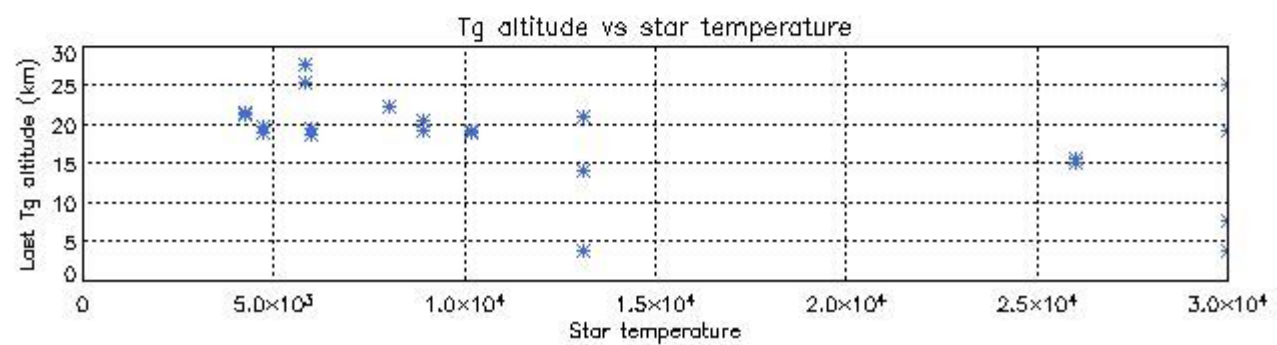
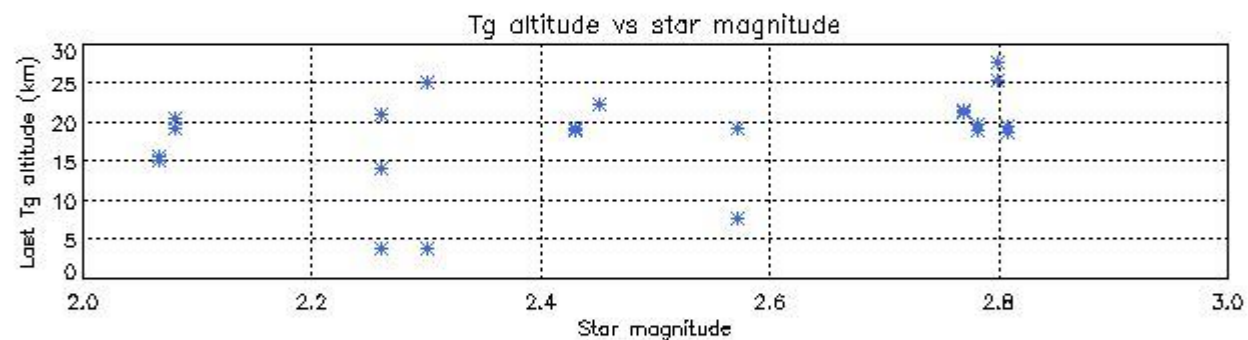
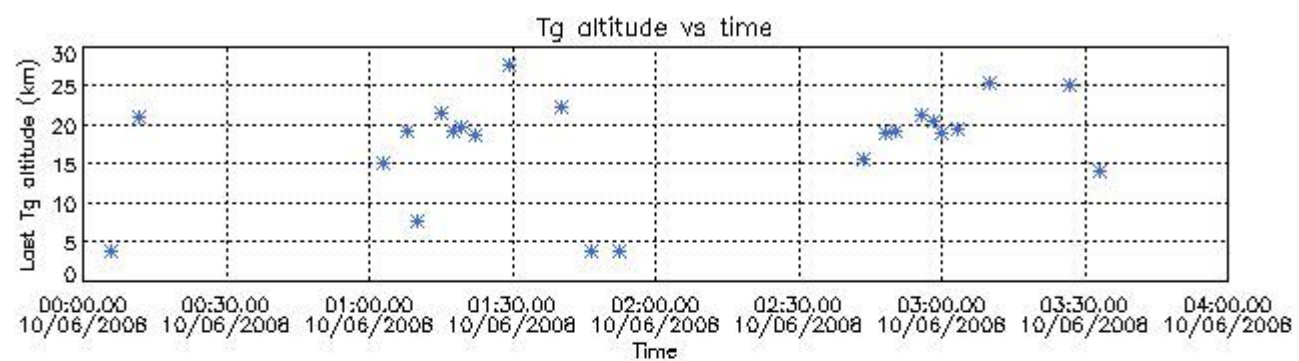
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

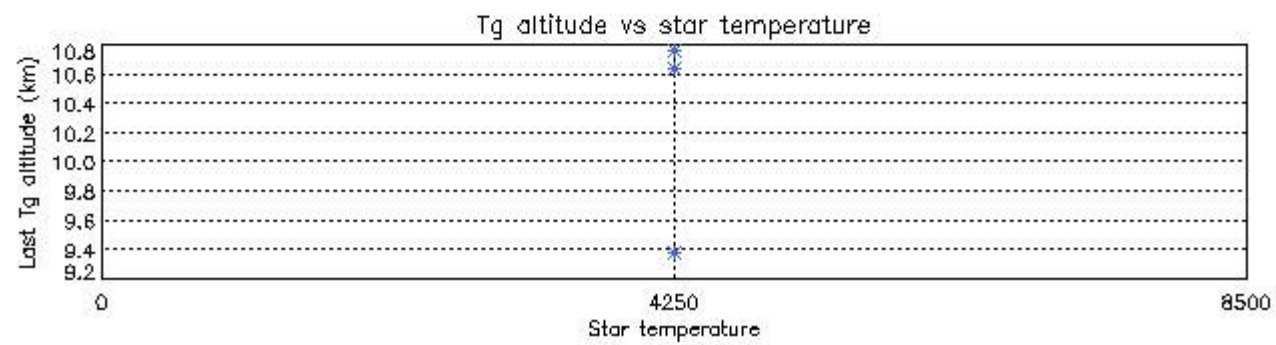
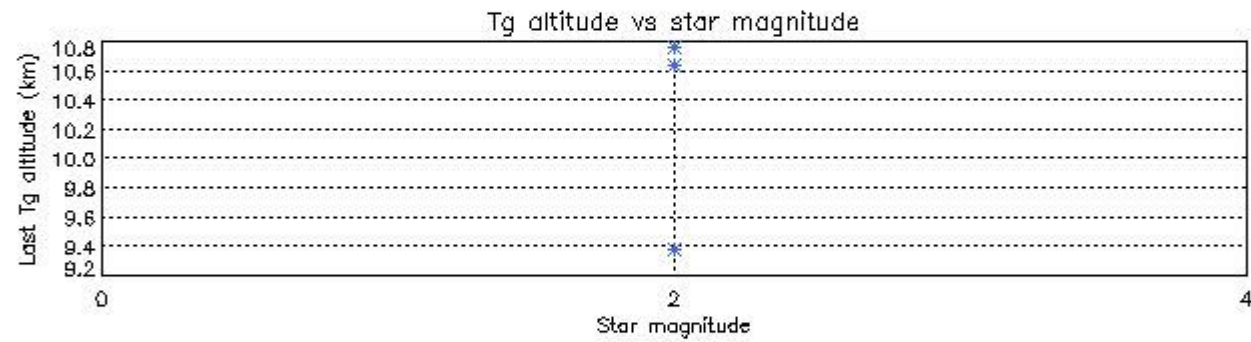
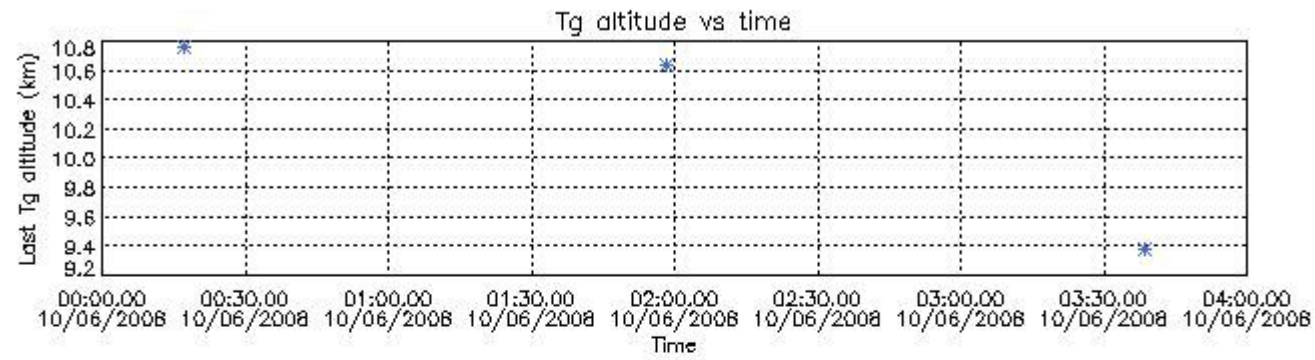


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

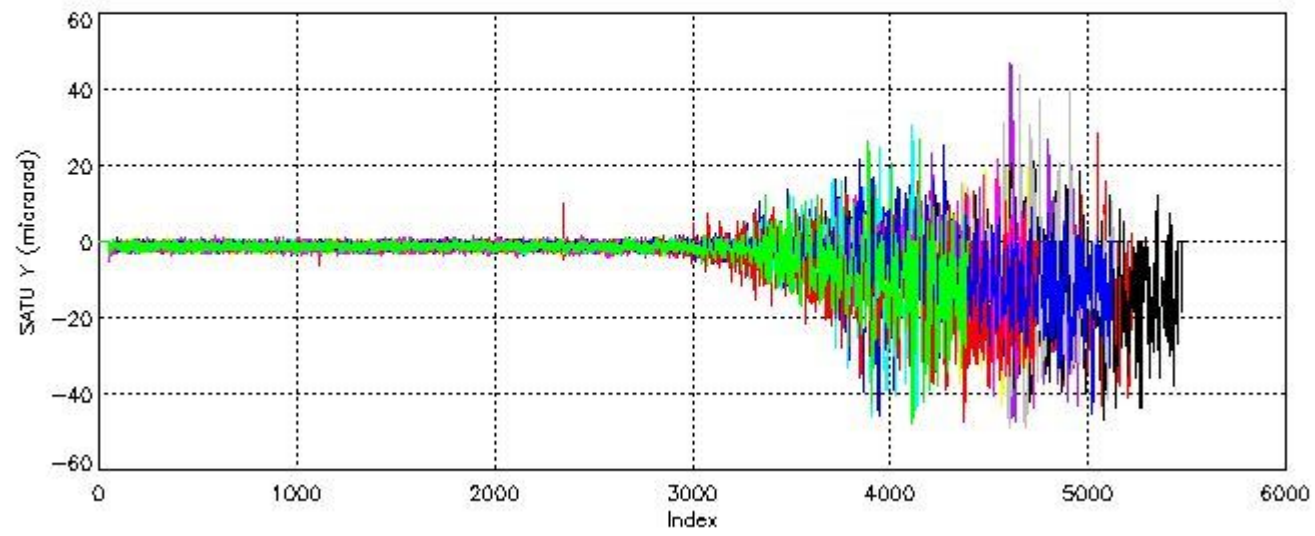
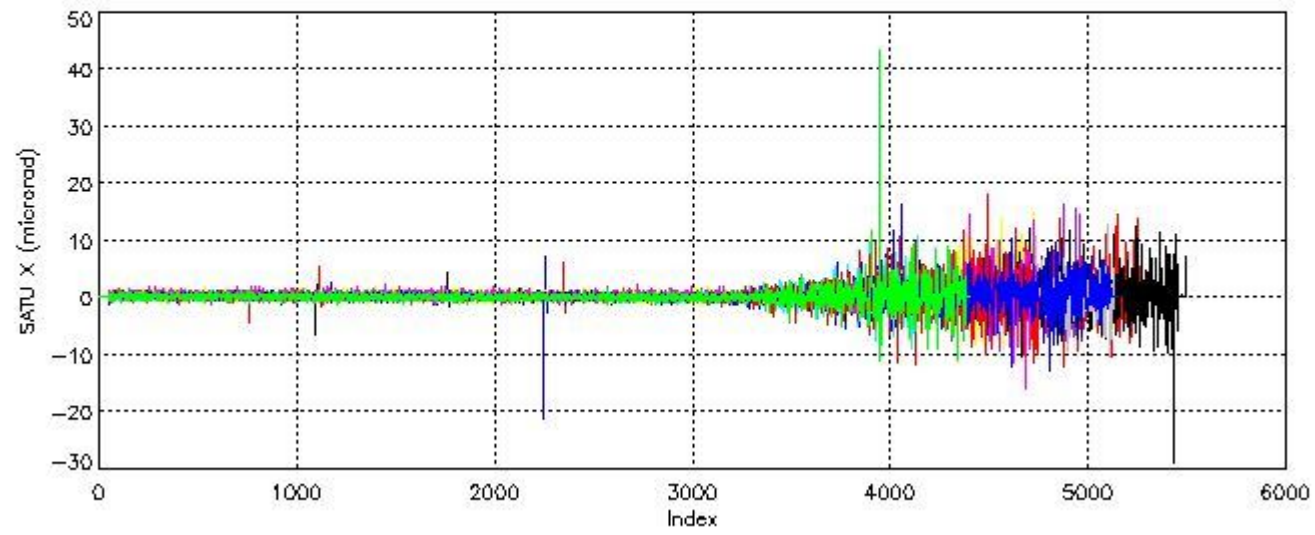


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.29083	-1.1128	0.32001	-1.1998
St. deviation:	0.33910	0.67471	0.80068	1.2524
Maximum:	2.0000	1.5000	4.5000	3.9000
Minimum:	-6.6000	-5.1000	-4.5000	-6.4000



Number of data:	15250.	15250.	22450.	22450.
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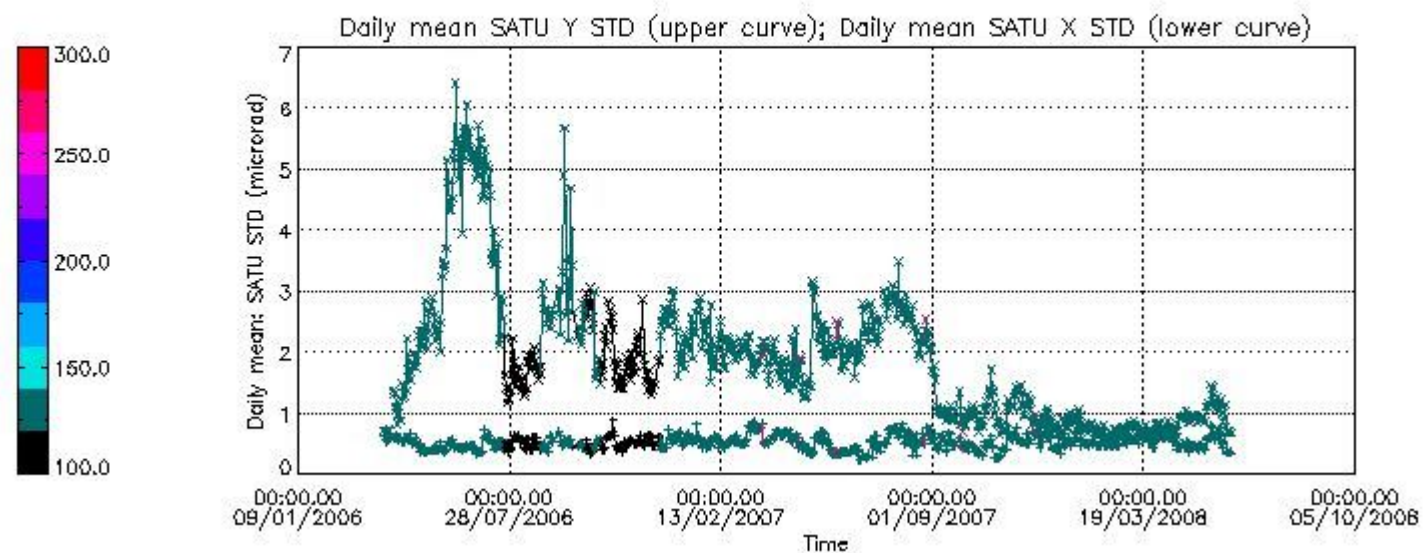
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

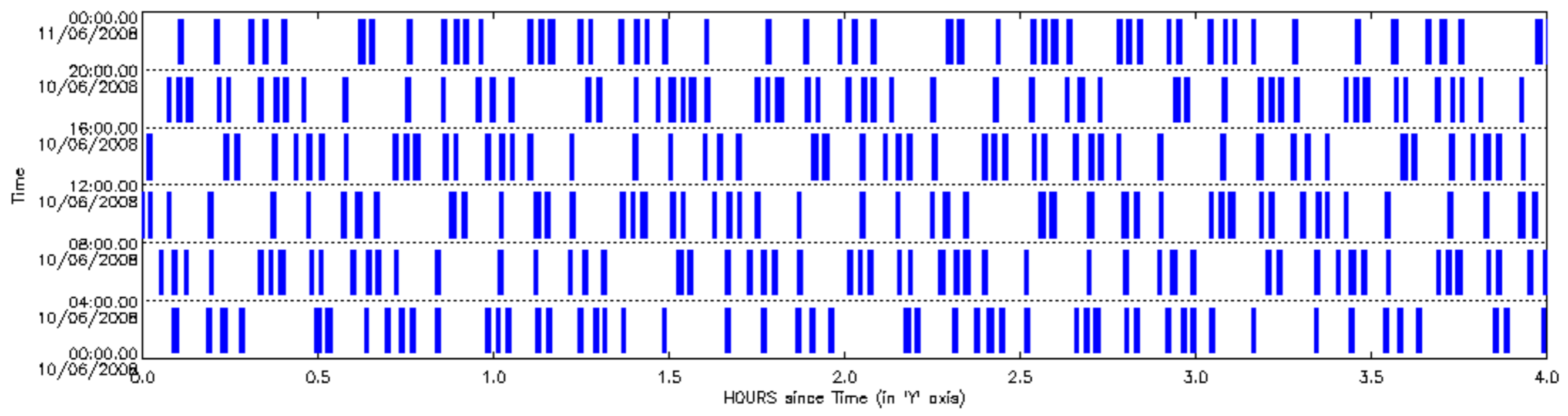
Lower curve: STD of SATU X axis

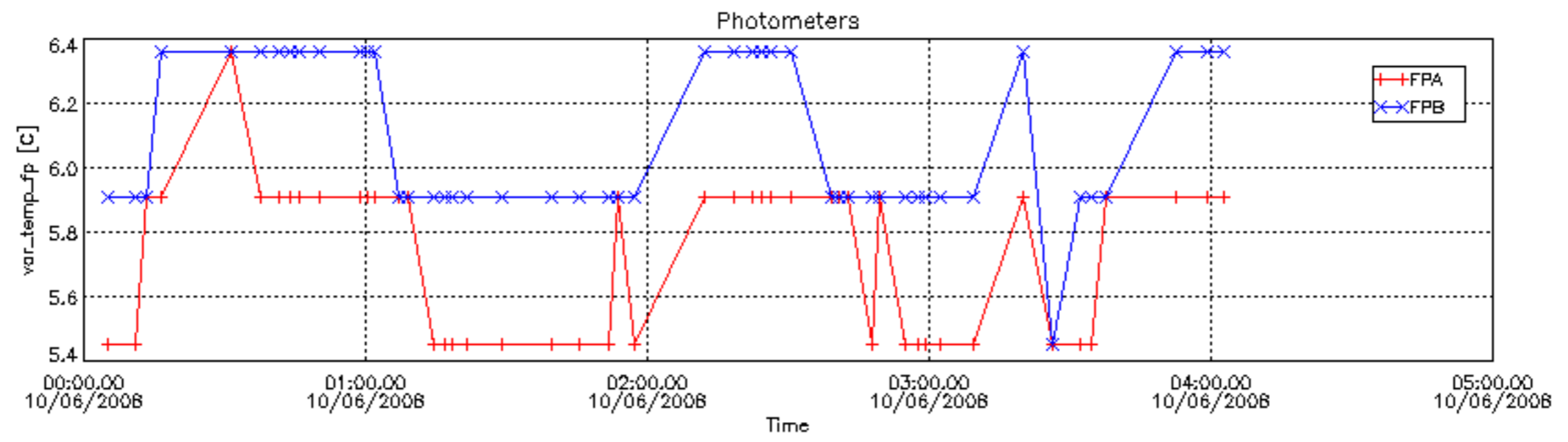
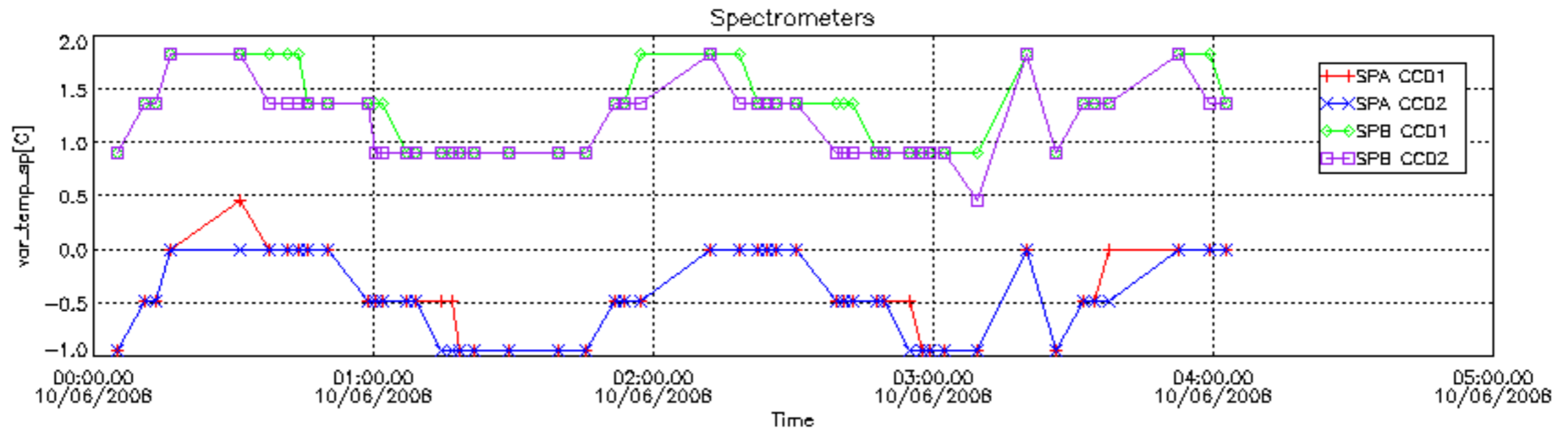


### 8. Auxiliary Data Files used for the production reported in section 2.4

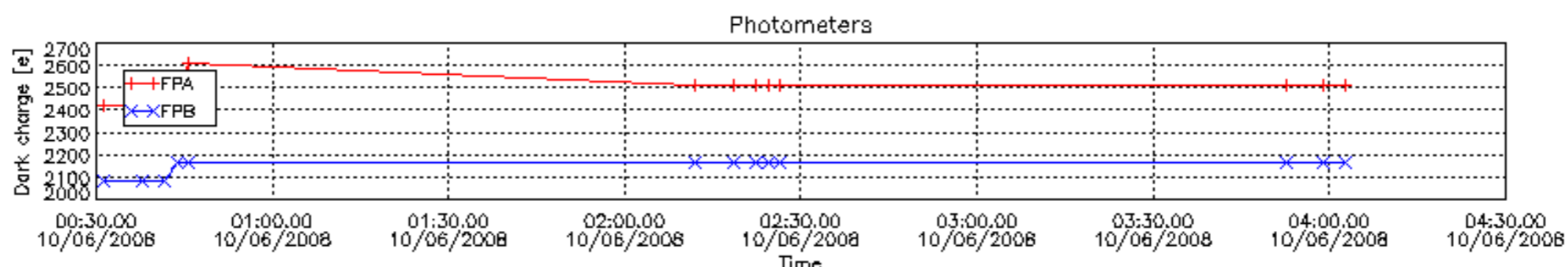
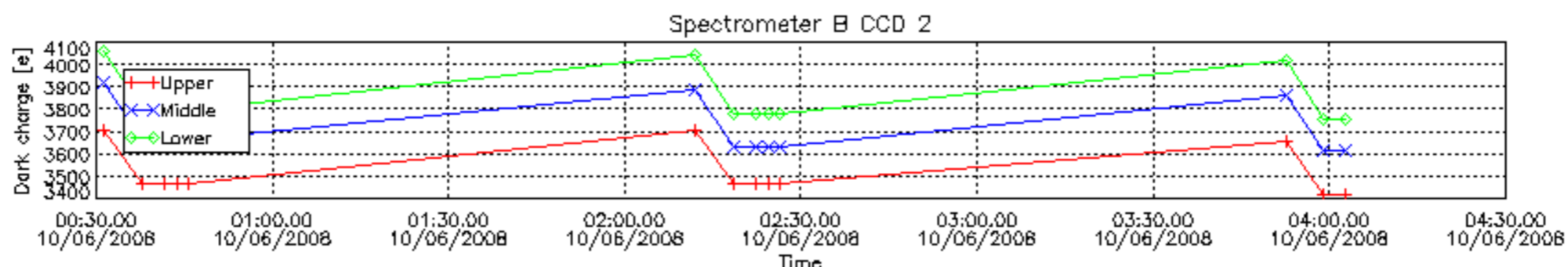
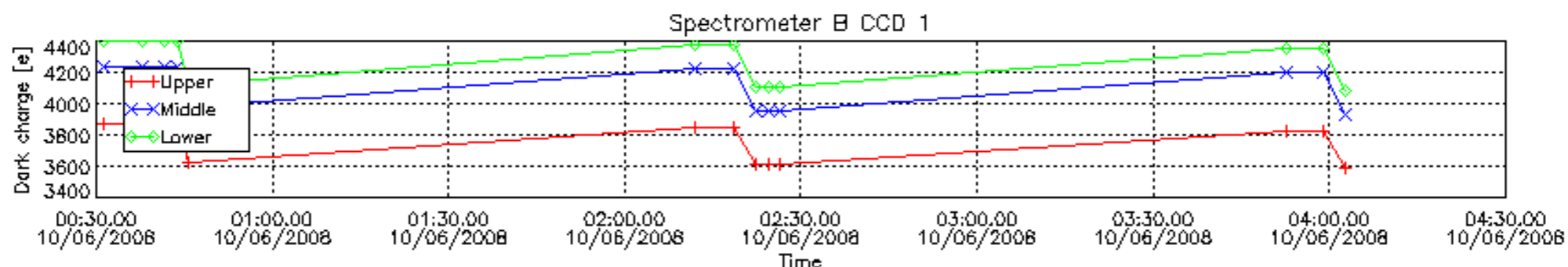
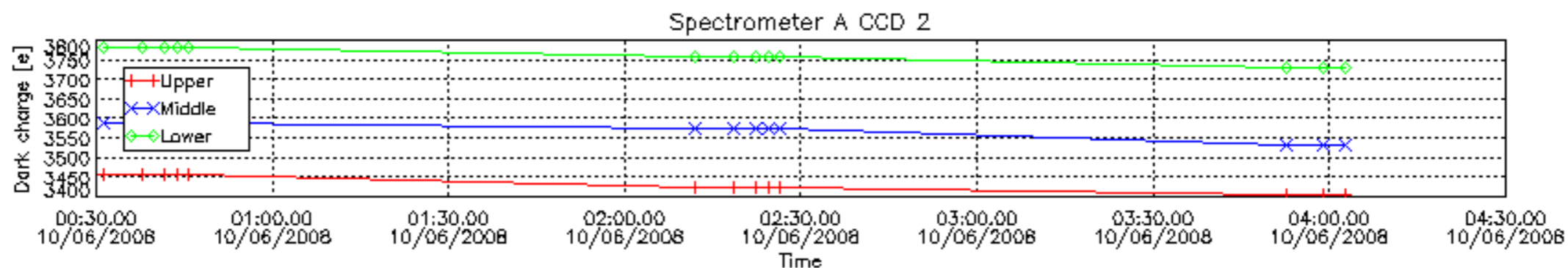
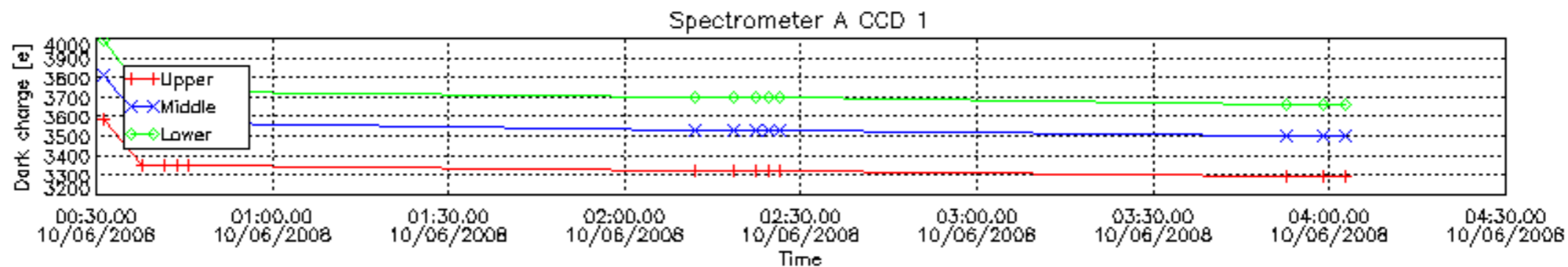
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

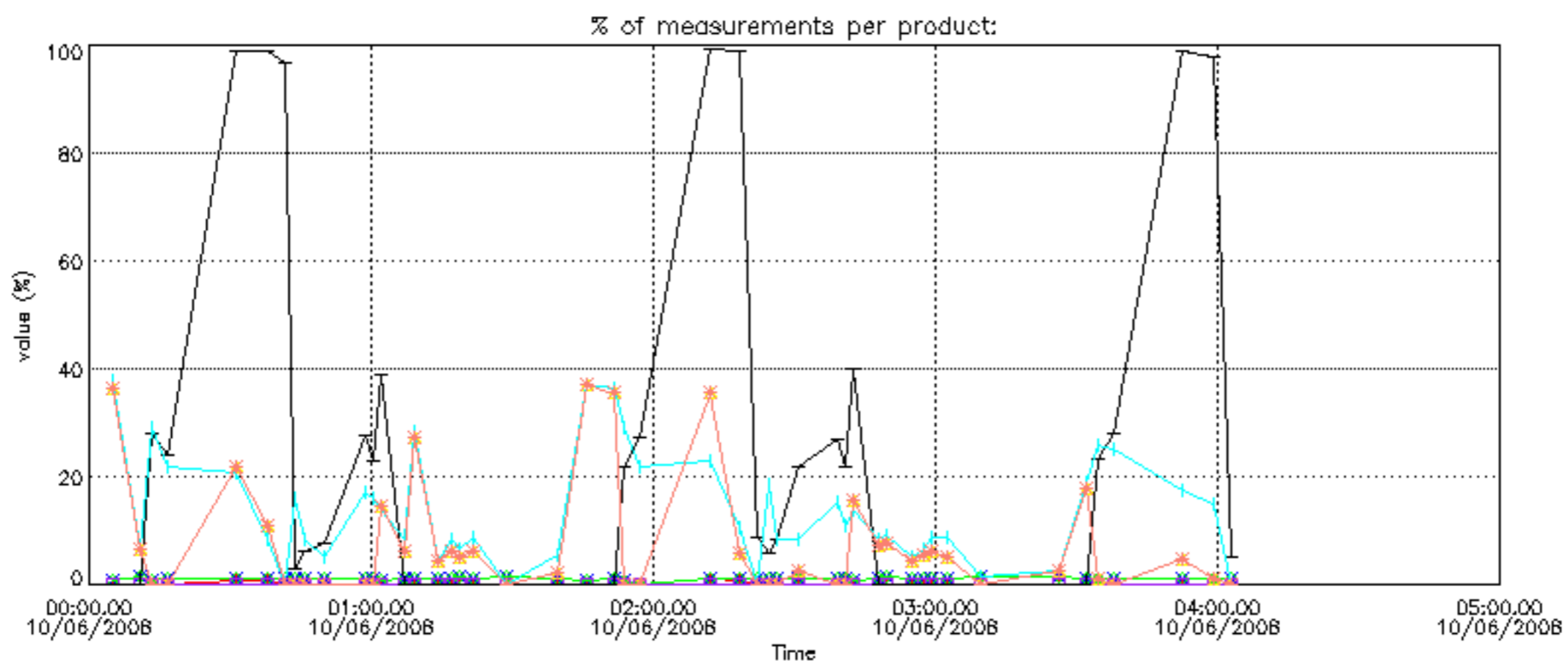
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-JUN-2008 00:05:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080609_083139_20080607_000000_20100101_000000	1	10-JUN-2008 00:05:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-JUN-2008 00:05:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-JUN-2008 00:05:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-JUN-2008 00:05:04
ECMWF_FILE	AUX_ECF_AXNECM20080609_072113_20080609_210000_20080610_090000	1	10-JUN-2008 00:05:04
ECMWF_FILE	AUX_ECF_AXNECM20080609_202113_20080610_030000_20080610_150000	42	10-JUN-2008 03:20:09
OPTIONAL_ECMWF_FILE	MISSING	1	10-JUN-2008 00:05:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080609_205758_000060572069_00200_32819_5704.N1	1	10-JUN-2008 00:05:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080609_224414_000057382069_00201_32820_5705.N1	5	10-JUN-2008 00:31:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080610_002511_000057382069_00202_32821_5706.N1	26	10-JUN-2008 02:11:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080610_020608_000038262069_00203_32822_5707.N1	42	10-JUN-2008 03:20:09



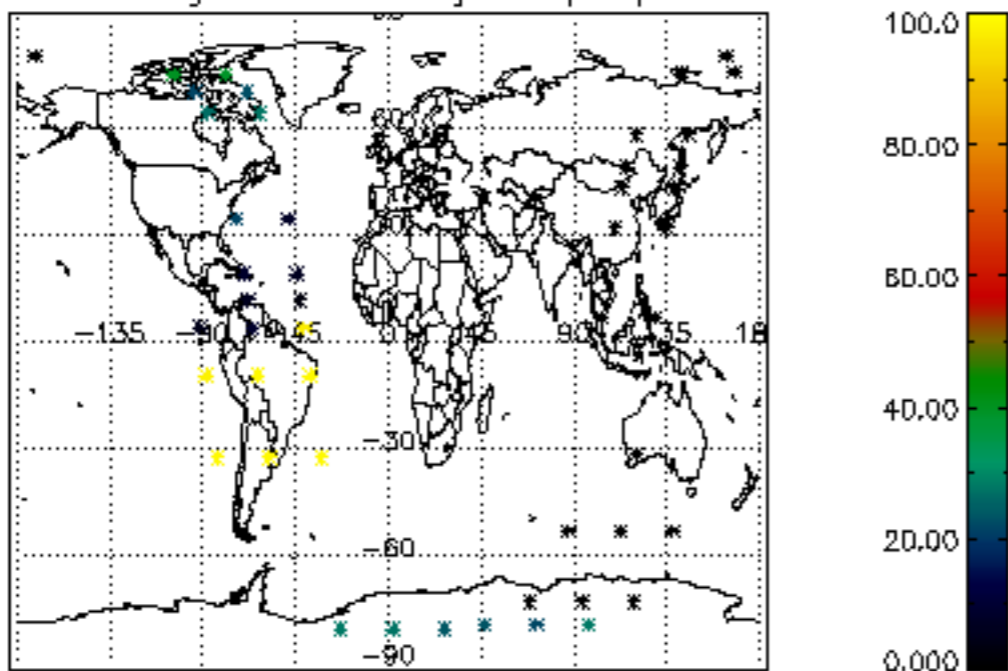




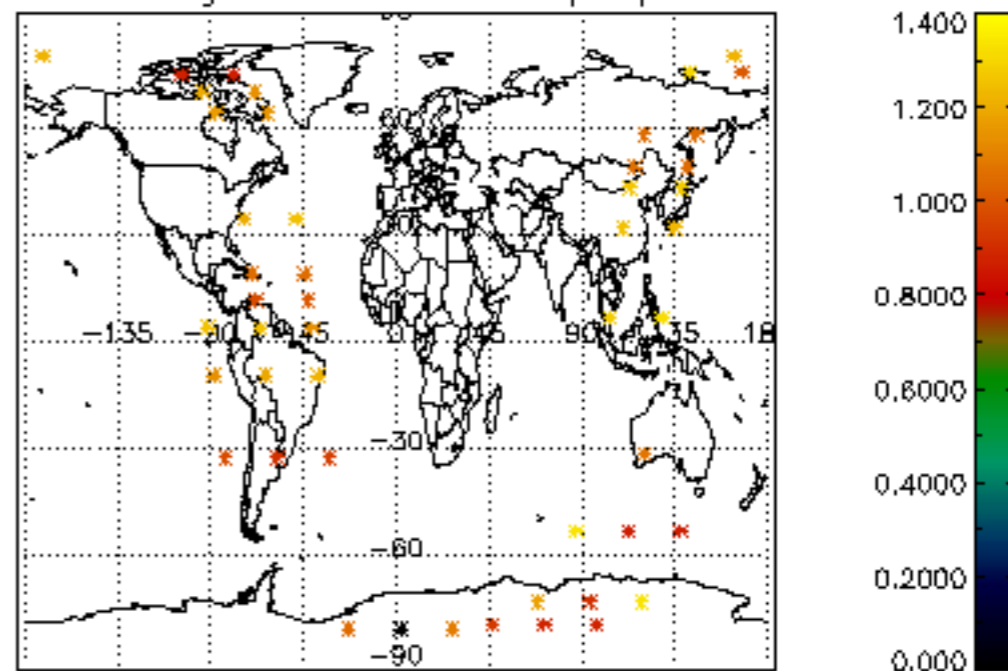




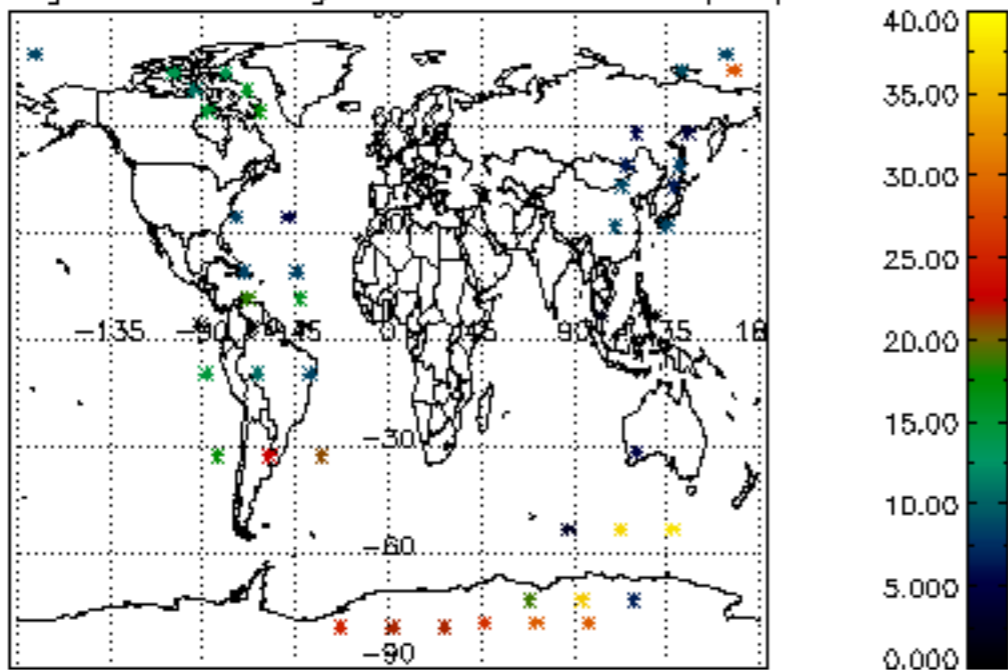
Percentage of cosmic ray hits per profile



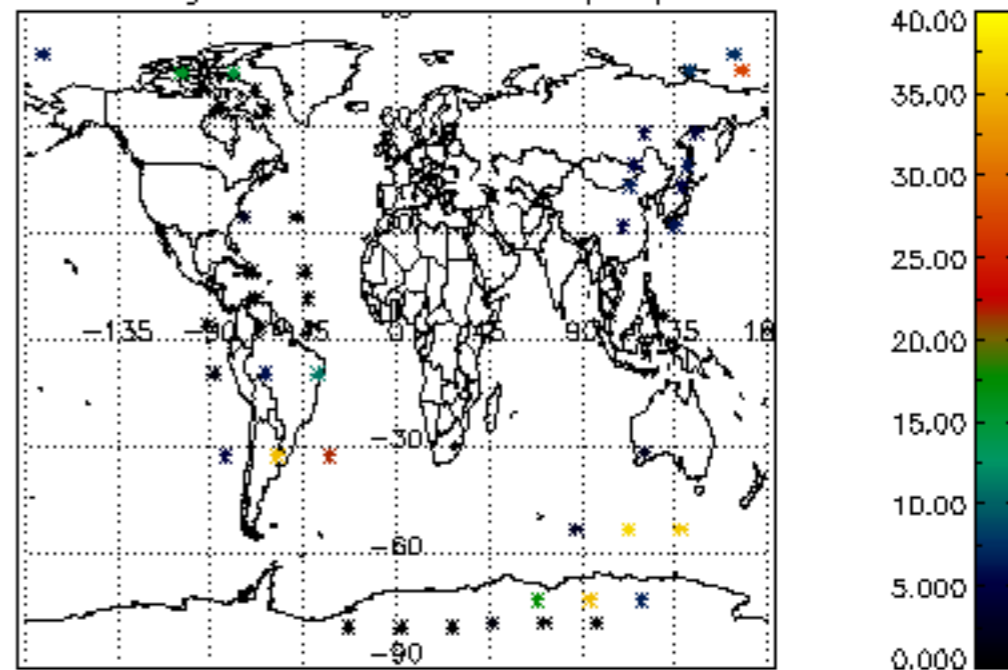
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

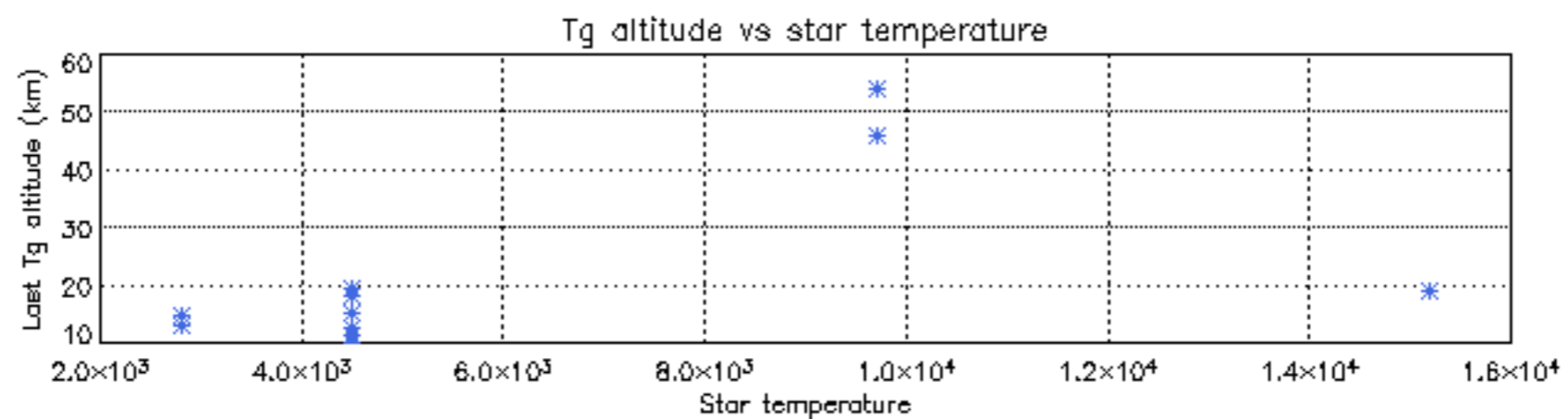
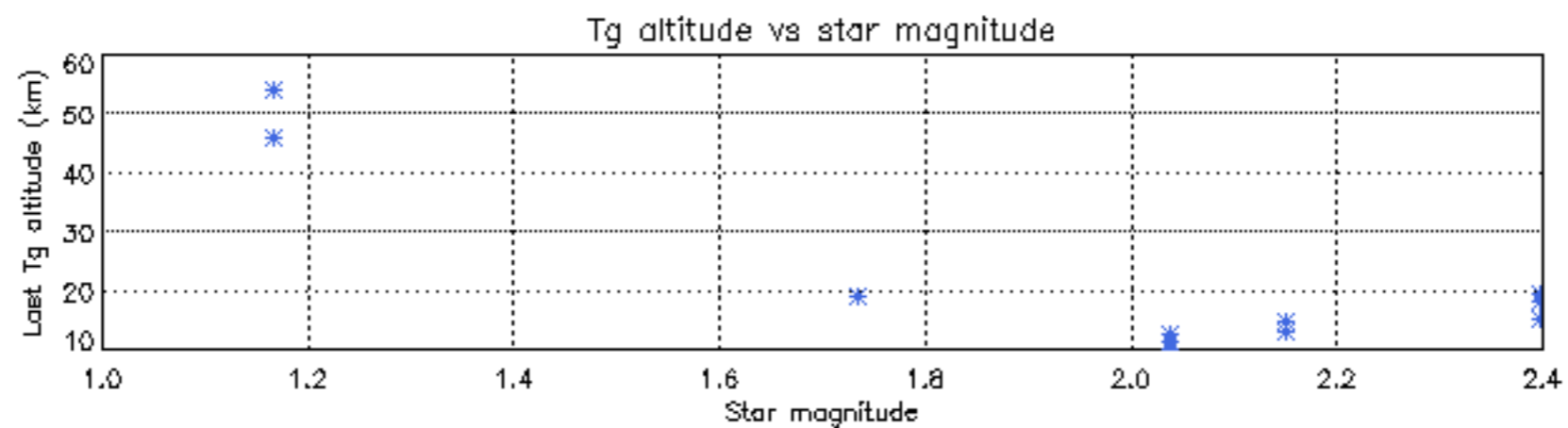
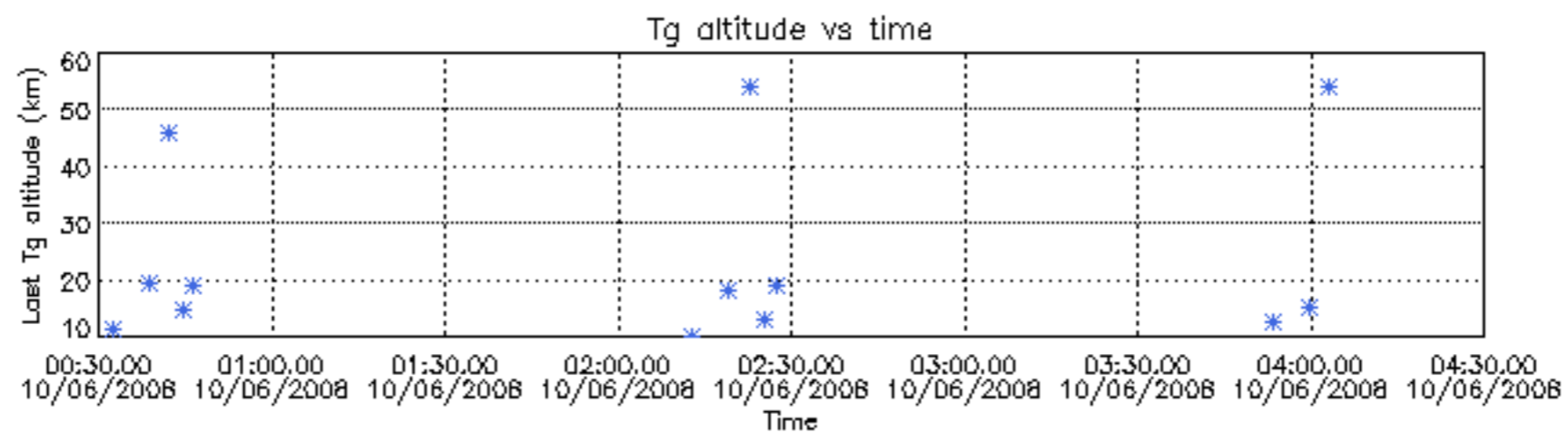


Percentage of saturation errors per profile

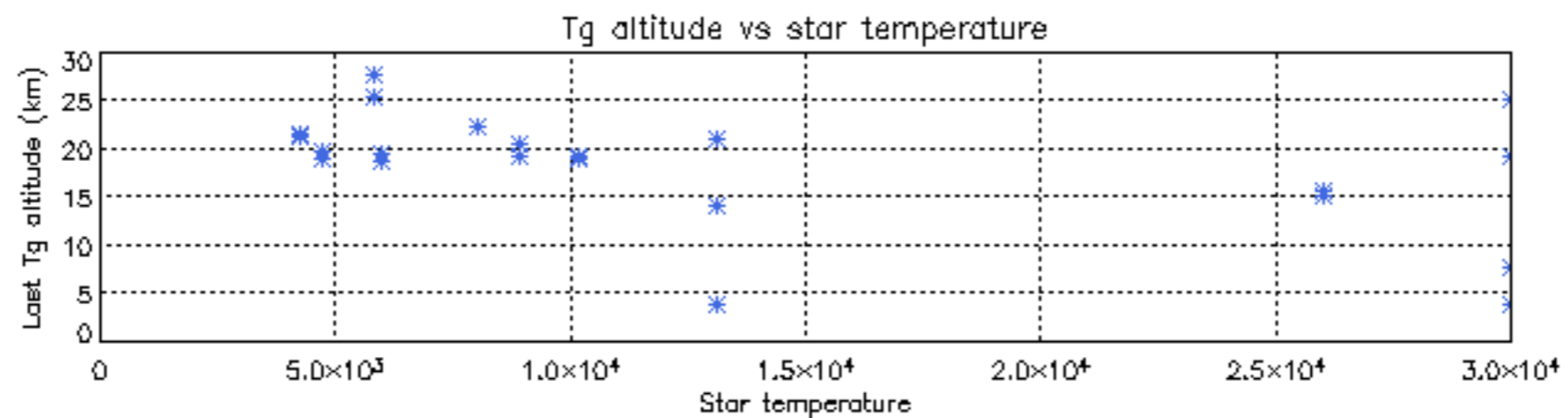
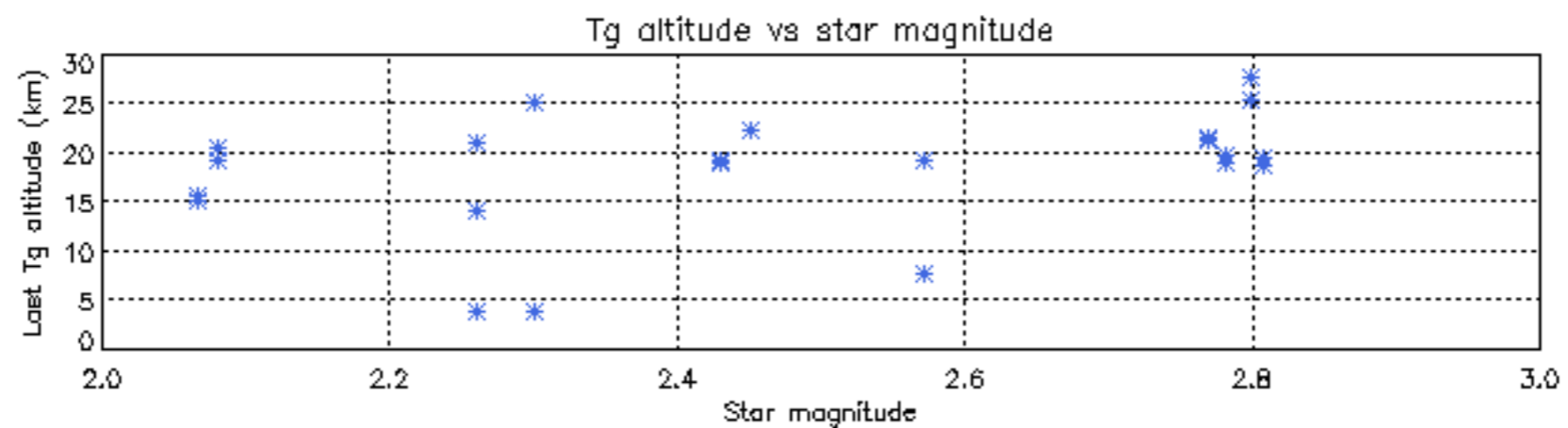
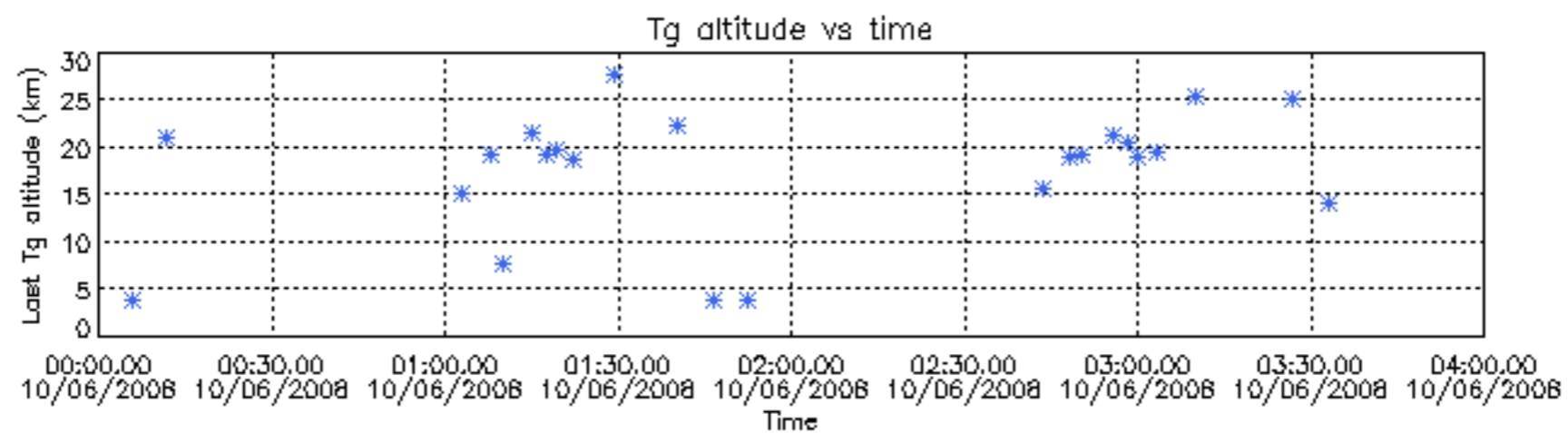




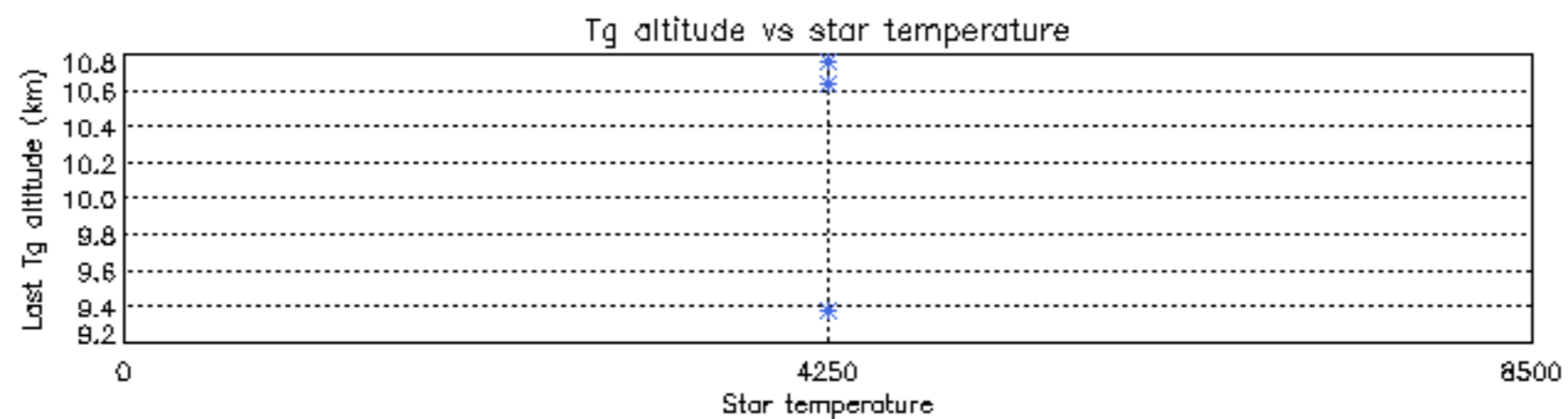
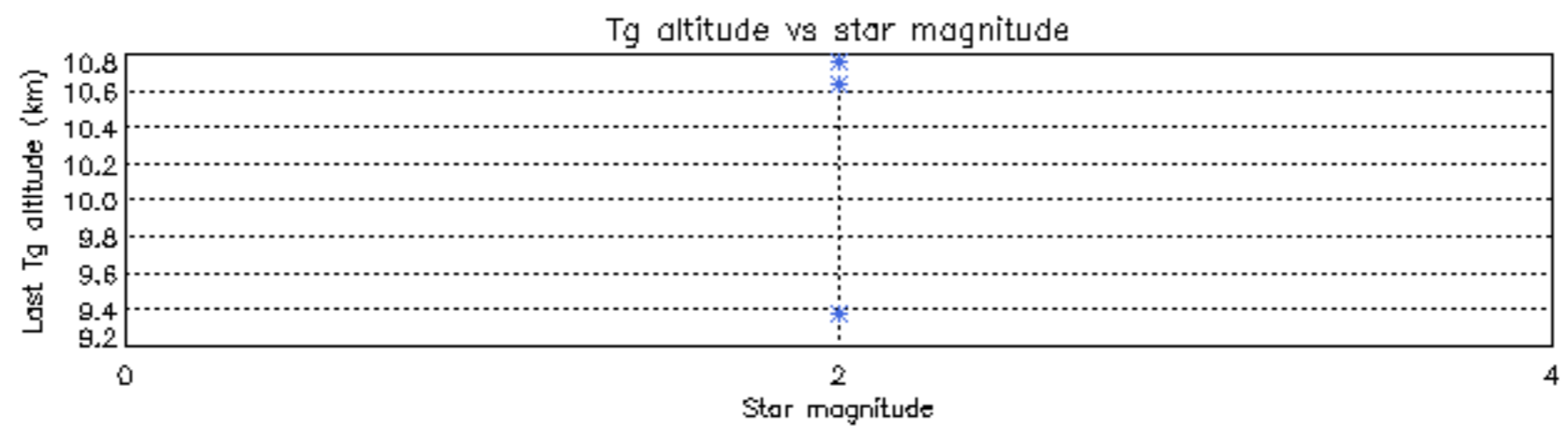
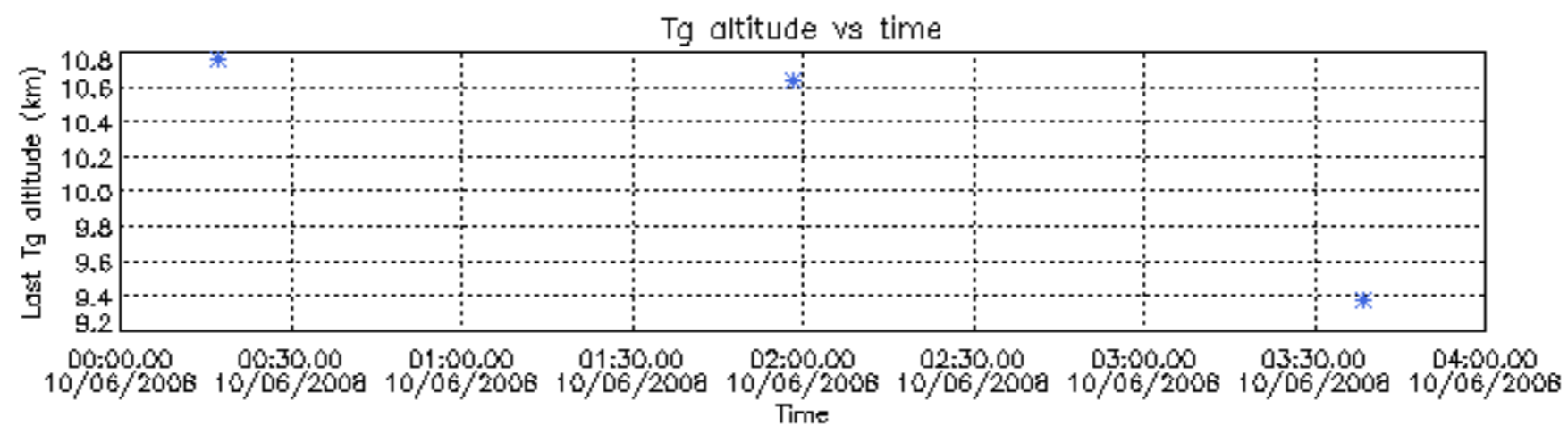
Tangent altitude at which the star is lost

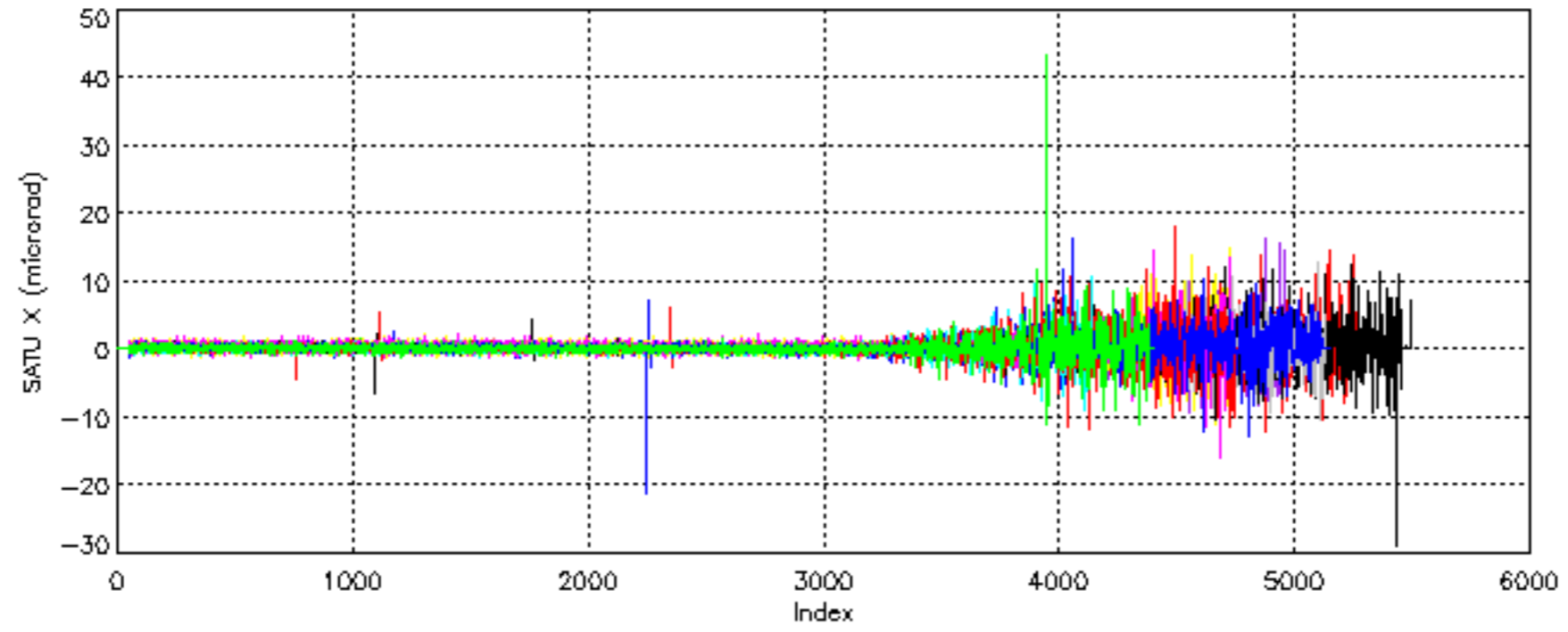


Tangent altitude at which the star is lost

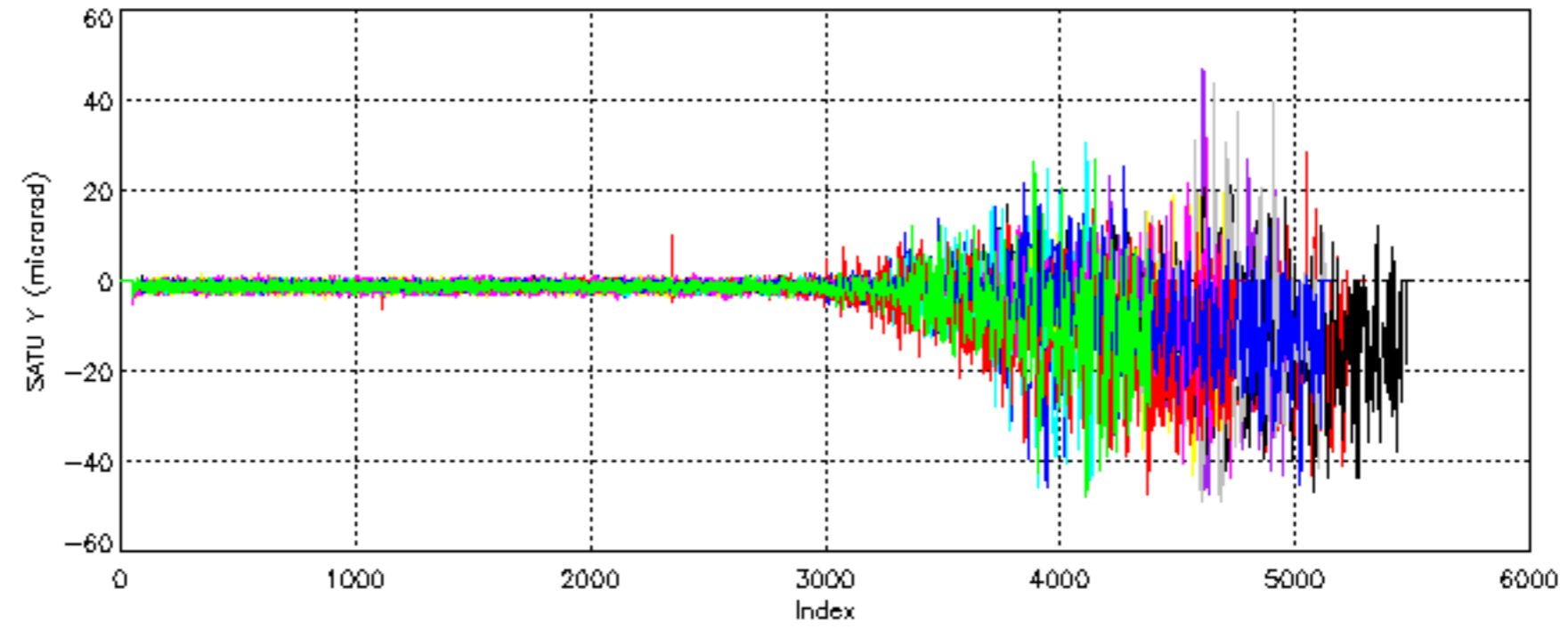


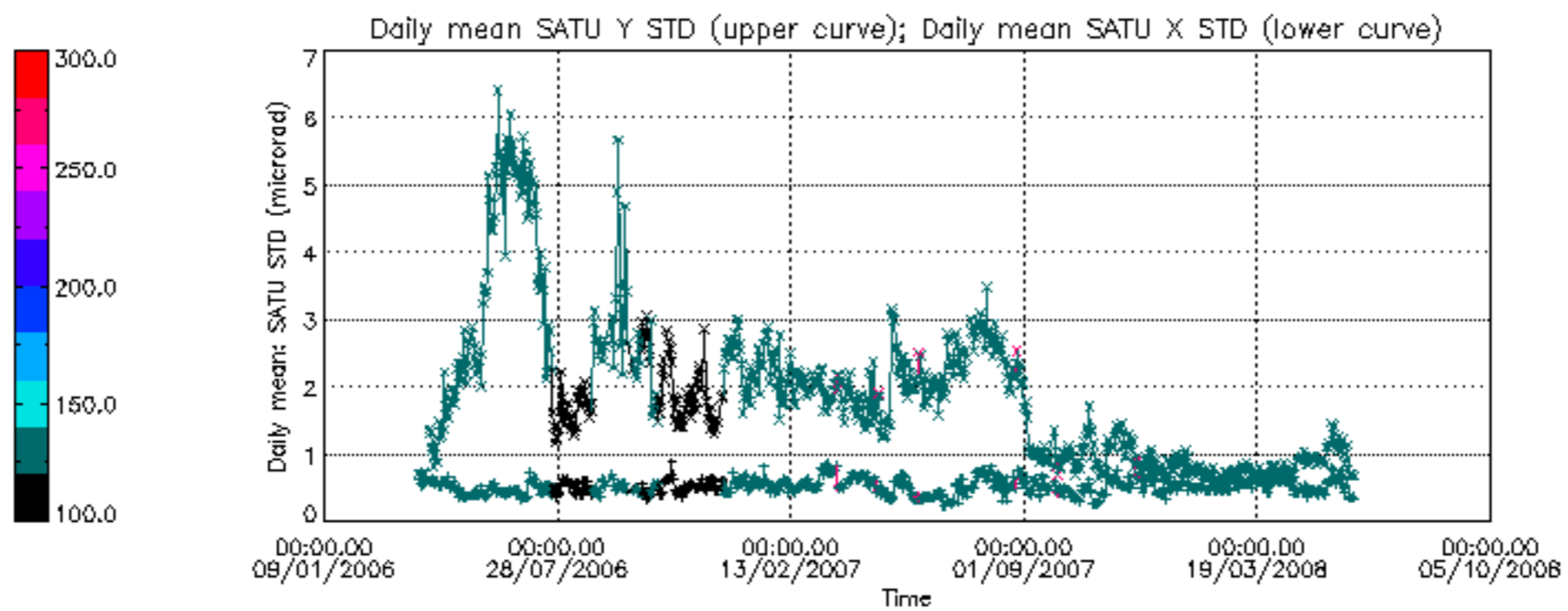
Tangent altitude at which the star is lost











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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  
 10; 1252.2; 01-JUN-2008 02:24:41; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;32694  
 11; 1374.2; 01-JUN-2008 02:26:43; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 0;32694  
 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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 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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 9; 82.7; 01-JUN-2008 03:45:47; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;32695  
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 11; 492.5; 01-JUN-2008 03:52:37; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32695  
 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  
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 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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 3; -1641.2; 01-JUN-2008 04:57:39; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;32695
 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
17; 1499.3; 01-JUN-2008 05:50:00; Bright; 38.5; 80; 7Del Sco ; 2.32; 30000;occ; 77; 0;32696
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
20; 1834.2; 01-JUN-2008 05:55:35; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;32696
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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 2; 1043.7; 01-JUN-2008 20:47:48; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32705
 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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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
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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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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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 13; 1175.3; 06-JUN-2008 06:27:43; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 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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 5; 1708.1; 07-JUN-2008 21:10:23; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32791  
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 9; 1264.7; 07-JUN-2008 22:43:35; Dark ; 52.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 105; 0;32792  
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8; 1078.7; 08-JUN-2008 00:21:05; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32793
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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  
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 15; 2286.9; 10-JUN-2008 01:18:35; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;32822  
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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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17; 1711.0; 10-JUN-2008 04:30:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32824
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22; 2901.4; 10-JUN-2008 04:50:01; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32824
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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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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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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  
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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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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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 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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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
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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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 3; 1718.3; 15-JUN-2008 15:17:01; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32902
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 5; 2277.1; 15-JUN-2008 15:26:20; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;32902
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 7; 2459.0; 15-JUN-2008 15:29:22; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32902
 8; 2867.7; 15-JUN-2008 15:36:10; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32902
 9; 2961.4; 15-JUN-2008 15:37:44; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;32902
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12; 3896.7; 15-JUN-2008 15:53:19; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;32902
13; 4062.2; 15-JUN-2008 15:56:05; Bright; 32.5; 160; 23Gam Per ; 2.93; 4700;occ; 65; 0;32902
14; 4270.0; 15-JUN-2008 15:59:33; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;32902
15; 4405.7; 15-JUN-2008 16:01:48; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;32902
16; 4621.1; 15-JUN-2008 16:05:24; Dark ; 49.5; 50; 13Alp Ari ; 2.01; 4250;occ; 99; 0;32902
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22; 6965.1; 15-JUN-2008 16:44:28; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;32902
23; 7047.0; 15-JUN-2008 16:45:50; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32902
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5; 1718.5; 15-JUN-2008 16:57:37; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32903  
6; 1844.4; 15-JUN-2008 16:59:43; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32903  
7; 2277.0; 15-JUN-2008 17:06:56; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32903  
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17; 4405.9; 15-JUN-2008 17:42:25; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;32903  
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19; 4907.2; 15-JUN-2008 17:50:46; Dark ; 49.5; 94; 92Alp Cet ; 2.53; 3100;occ; 99; 0;32903  
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21; 5938.2; 15-JUN-2008 18:07:57; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;32903  
22; 6311.9; 15-JUN-2008 18:14:10; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32903  
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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25; 7047.3; 15-JUN-2008 18:26:26; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32903  
26; 7152.7; 15-JUN-2008 18:28:11; Dark ; 7.0; 40; The Sco ; 1.86; 7100;occ; 14; 0;32903

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5; 1472.1; 15-JUN-2008 18:34:07; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;32904  
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7; 1718.5; 15-JUN-2008 18:38:13; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32904  
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25; 6664.6; 15-JUN-2008 20:00:39; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32904  
26; 6965.5; 15-JUN-2008 20:05:40; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;32904  
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4; 630.5; 16-JUN-2008 01:02:29; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32908  
5; 930.3; 16-JUN-2008 01:07:28; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;32908  
6; 1012.5; 16-JUN-2008 01:08:51; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;32908  
7; 1117.8; 16-JUN-2008 01:10:36; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32908  
8; 1220.5; 16-JUN-2008 01:12:19; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;32908  
9; 1306.9; 16-JUN-2008 01:13:45; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;32908  
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12; 1718.8; 16-JUN-2008 01:20:37; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;32908  
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 16; 2458.0; 16-JUN-2008 01:32:56; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;32908  
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 13; 3176.6; 21-JUN-2008 19:14:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32990  
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6; 1142.1; 22-JUN-2008 01:22:30; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32994
7; 1243.4; 22-JUN-2008 01:24:12; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32994
8; 1323.9; 22-JUN-2008 01:25:32; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;32994
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13; 2135.9; 22-JUN-2008 01:39:04; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;32994
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12; 1142.4; 22-JUN-2008 03:03:06; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32995
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4; 687.1; 22-JUN-2008 21:22:06; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33006  
5; 1145.2; 22-JUN-2008 21:29:45; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;33006  
6; 1246.1; 22-JUN-2008 21:31:26; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;33006  
7; 1327.2; 22-JUN-2008 21:32:47; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;33006  
8; 1627.0; 22-JUN-2008 21:37:46; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;33006  
9; 1730.7; 22-JUN-2008 21:39:30; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33006  
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12; 2274.3; 22-JUN-2008 21:48:34; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33006  
13; 2447.1; 22-JUN-2008 21:51:27; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33006  
14; 2833.2; 22-JUN-2008 21:57:53; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33006  
15; 2952.8; 22-JUN-2008 21:59:52; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33006  
16; 3178.0; 22-JUN-2008 22:03:37; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33006  
17; 3446.1; 22-JUN-2008 22:08:06; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33006  
18; 3870.4; 22-JUN-2008 22:15:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;33006  
19; 4065.1; 22-JUN-2008 22:18:24; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33006  
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21; 4415.5; 22-JUN-2008 22:24:15; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33006  
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2;	-14.6;	22-JUN-2008	22:51:01;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;33006
3;	377.3;	22-JUN-2008	22:57:33;	Dark	;	50.5;	63;	Bet Gru	;	2.15;	2800;occ;	101;	0;33007
4;	687.6;	22-JUN-2008	23:02:43;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;33007
5;	1145.4;	22-JUN-2008	23:10:21;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;33007
6;	1246.4;	22-JUN-2008	23:12:02;	Dark	;	43.5;	25;	35Lam Sco	;	1.62;	28000;occ;	87;	0;33007
7;	1327.5;	22-JUN-2008	23:13:23;	Dark	;	45.0;	116;	19Del Sgr	;	2.70;	4100;occ;	90;	0;33007
8;	1627.2;	22-JUN-2008	23:18:22;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;33007
9;	1731.0;	22-JUN-2008	23:20:06;	Bright;	;	36.5;	98;	13Zet Oph	;	2.57;	30000;occ;	73;	0;33007
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11;	2133.7;	22-JUN-2008	23:26:49;	Bright;	;	40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;33007
12;	2274.5;	22-JUN-2008	23:29:10;	Bright;	;	36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;33007
13;	2447.2;	22-JUN-2008	23:32:02;	Bright;	;	35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;33007
14;	2832.9;	22-JUN-2008	23:38:28;	Bright;	;	39.5;	130;	23Bet Dra	;	2.80;	5800;occ;	79;	0;33007
15;	2952.8;	22-JUN-2008	23:40:28;	Bright;	;	37.0;	119;	14Eta Dra	;	2.73;	4700;occ;	74;	0;33007
16;	3178.0;	22-JUN-2008	23:44:13;	Bright;	;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;33007
17;	3446.1;	22-JUN-2008	23:48:41;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;33007
18;	3870.1;	22-JUN-2008	23:55:45;	Bright;	;	50.0;	76;	27Gam Cas	;	2.30;	30000;occ;	100;	0;33007
19;	4065.3;	22-JUN-2008	23:59:01;	Bright;	;	34.0;	160;	23Gam Per	;	2.93;	4700;occ;	68;	0;33007
20;	4270.8;	23-JUN-2008	00:02:26;	Bright;	;	43.5;	73;	57Gam1And	;	2.26;	13100;occ;	87;	0;33007
21;	4415.8;	23-JUN-2008	00:04:51;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;33007
22;	4936.5;	23-JUN-2008	00:13:32;	Dark	;	45.5;	94;	92Alp Cet	;	2.53;	3100;occ;	91;	0;33007
23;	5417.1;	23-JUN-2008	00:21:32;	Dark	;	20.0;	0;	;	;	0.00;	0;occ;	40;	0;33007
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2;	-1970.7;	22-JUN-2008	07:13:01;	Bright;	;	34.0;	160;	23Gam Per	;	2.93;	4700;occ;	68;	0;32997
3;	-1764.9;	22-JUN-2008	07:16:27;	Bright;	;	43.5;	73;	57Gam1And	;	2.26;	13100;occ;	87;	0;32997
4;	-1621.0;	22-JUN-2008	07:18:51;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;32997
5;	-1102.4;	22-JUN-2008	07:27:30;	Dark	;	37.0;	94;	92Alp Cet	;	2.53;	3100;occ;	74;	0;32997
6;	-625.3;	22-JUN-2008	07:35:27;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32997
7;	-18.3;	22-JUN-2008	07:45:34;	Dark	;	43.5;	9;	Alp Eri	;	0.45;	24000;occ;	87;	0;32997
8;	368.6;	22-JUN-2008	07:52:01;	Dark	;	49.0;	63;	Bet Gru	;	2.15;	2800;occ;	98;	0;32998
9;	682.7;	22-JUN-2008	07:57:15;	Dark	;	41.0;	45;	Alp Pav	;	1.94;	26000;occ;	82;	0;32998
10;	1143.2;	22-JUN-2008	08:04:55;	Dark	;	42.0;	40;	The Sco	;	1.86;	7100;occ;	84;	0;32998
11;	1244.2;	22-JUN-2008	08:06:36;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;32998
12;	1325.1;	22-JUN-2008	08:07:57;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;32998
13;	1401.0;	22-JUN-2008	08:09:13;	Bright;	;	45.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	91;	0;32998
14;	1626.1;	22-JUN-2008	08:12:58;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;32998
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2;	1729.9;	22-JUN-2008	08:14:42;	Bright;	;	34.5;	98;	13Zet Oph	;	2.57;	30000;occ;	69;	0;32998
3;	1990.3;	22-JUN-2008	08:19:02;	Bright;	;	40.0;	126;	60Bet Oph	;	2.77;	4250;occ;	80;	0;32998
4;	2135.2;	22-JUN-2008	08:21:27;	Bright;	;	39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;32998
5;	2274.4;	22-JUN-2008	08:23:46;	Bright;	;	36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;32998
6;	2447.8;	22-JUN-2008	08:26:40;	Bright;	;	36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;32998
7;	2835.5;	22-JUN-2008	08:33:07;	Bright;	;	38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;32998
8;	2953.2;	22-JUN-2008	08:35:05;	Bright;	;	36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;32998
9;	3177.2;	22-JUN-2008	08:38:49;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;32998
10;	3446.2;	22-JUN-2008	08:43:18;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;32998
11;	3872.8;	22-JUN-2008	08:50:25;	Bright;	;	42.0;	76;	27Gam Cas	;	2.30;	30000;occ;	84;	0;32998
12;	4065.1;	22-JUN-2008	08:53:37;	Bright;	;	39.0;	160;	23Gam Per	;	2.93;	4700;occ;	78;	0;32998
13;	4270.9;	22-JUN-2008	08:57:03;	Bright;	;	44.5;	73;	57Gam1And	;	2.26;	13100;occ;	89;	0;32998
14;	4415.1;	22-JUN-2008	08:59:27;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;32998
15;	4933.8;	22-JUN-2008	09:08:06;	Dark	;	36.5;	94;	92Alp Cet	;	2.53;	3100;occ;	73;	0;32998
16;	5411.3;	22-JUN-2008	09:16:03;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32998
17;	6018.0;	22-JUN-2008	09:26:10;	Dark	;	49.0;	9;	Alp Eri	;	0.45;	24000;occ;	98;	0;32998
18;	6405.4;	22-JUN-2008	09:32:37;	Dark	;	54.0;	63;	Bet Gru	;	2.15;	2800;occ;	108;	0;32998
19;	6719.2;	22-JUN-2008	09:37:51;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;32998
20;	7179.4;	22-JUN-2008	09:45:31;	Dark	;	41.0;	40;	The Sco	;	1.86;	7100;occ;	82;	0;32998
21;	7280.5;	22-JUN-2008	09:47:12;	Dark	;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;32998
22;	7361.2;	22-JUN-2008	09:48:33;	Dark	;	58.0;	116;	19Del Sgr	;	2.70;	4100;occ;	116;	0;32998
23;	7437.2;	22-JUN-2008	09:49:49;	Bright;	;	43.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	87;	0;32998
24;	7662.0;	22-JUN-2008	09:53:34;	Bright;	;	38.5;	86;	35Eta Oph	;	2.43;	10200;occ;	77;	0;32998
25;	7765.8;	22-JUN-2008	09:55:18;	Bright;	;	35.0;	98;	13Zet Oph	;	2.57;	30000;occ;	70;	1;32998
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3;	2135.0;	22-JUN-2008	10:02:03;	Bright;	;	41.0;	59;	55Alp Oph	;	2.08;	8900;occ;	82;	0;32999

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6; 2835.2; 22-JUN-2008 10:13:43; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32999
7; 2953.1; 22-JUN-2008 10:15:41; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32999
8; 3177.2; 22-JUN-2008 10:19:25; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;32999
9; 3446.2; 22-JUN-2008 10:23:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32999
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13; 4415.1; 22-JUN-2008 10:40:03; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;32999
14; 4934.0; 22-JUN-2008 10:48:42; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;32999
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17; 6406.3; 22-JUN-2008 11:13:14; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32999
18; 6719.7; 22-JUN-2008 11:18:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32999
19; 7179.6; 22-JUN-2008 11:26:07; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;32999
20; 7280.7; 22-JUN-2008 11:27:49; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32999
21; 7361.5; 22-JUN-2008 11:29:09; Dark ; 52.0; 116; 19Del Sgr ; 2.70; 4100;occ; 104; 0;32999
22; 7437.3; 22-JUN-2008 11:30:25; Bright; 44.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 89; 0;32999
23; 7662.3; 22-JUN-2008 11:34:10; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;32999
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6; 2447.6; 22-JUN-2008 13:28:27; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33001
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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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9; 3446.2; 23-JUN-2008 09:52:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33013  
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22; 7365.5; 23-JUN-2008 10:57:36; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33013  
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8; 2952.5; 23-JUN-2008 11:24:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33014
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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
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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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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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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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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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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  
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 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  
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 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  
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 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  
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 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  
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 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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 13; 4944.4; 24-JUN-2008 14:47:26; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33030  
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 15; 6031.7; 24-JUN-2008 15:05:33; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33030  
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 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  
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 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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 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  
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 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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 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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 15; 4289.7; 24-JUN-2008 17:57:43; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;33032  
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 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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 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  
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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
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5; 2446.5; 28-JUN-2008 10:18:44; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;33085
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  
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 11; 2282.2; 29-JUN-2008 19:47:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33105  
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 13; 2811.2; 29-JUN-2008 19:56:47; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33105  
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 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  
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