

# GOMOS Daily Report 18-APR-2008

## Level 0 and Level 1 products

### SUMMARY

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

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

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

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

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

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

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

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

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

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

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

## [Level 2 products](#)

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

Item	Value
Time of report generation	20APR2008 05:35:09
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (18APR2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19APR2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	47
Nb of prods with errors	2

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

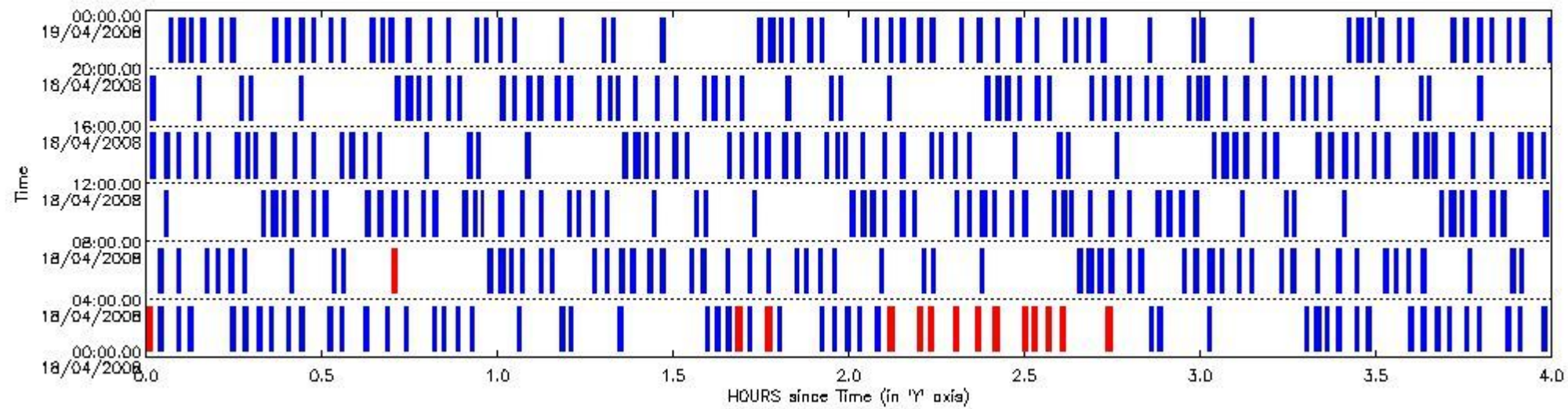
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



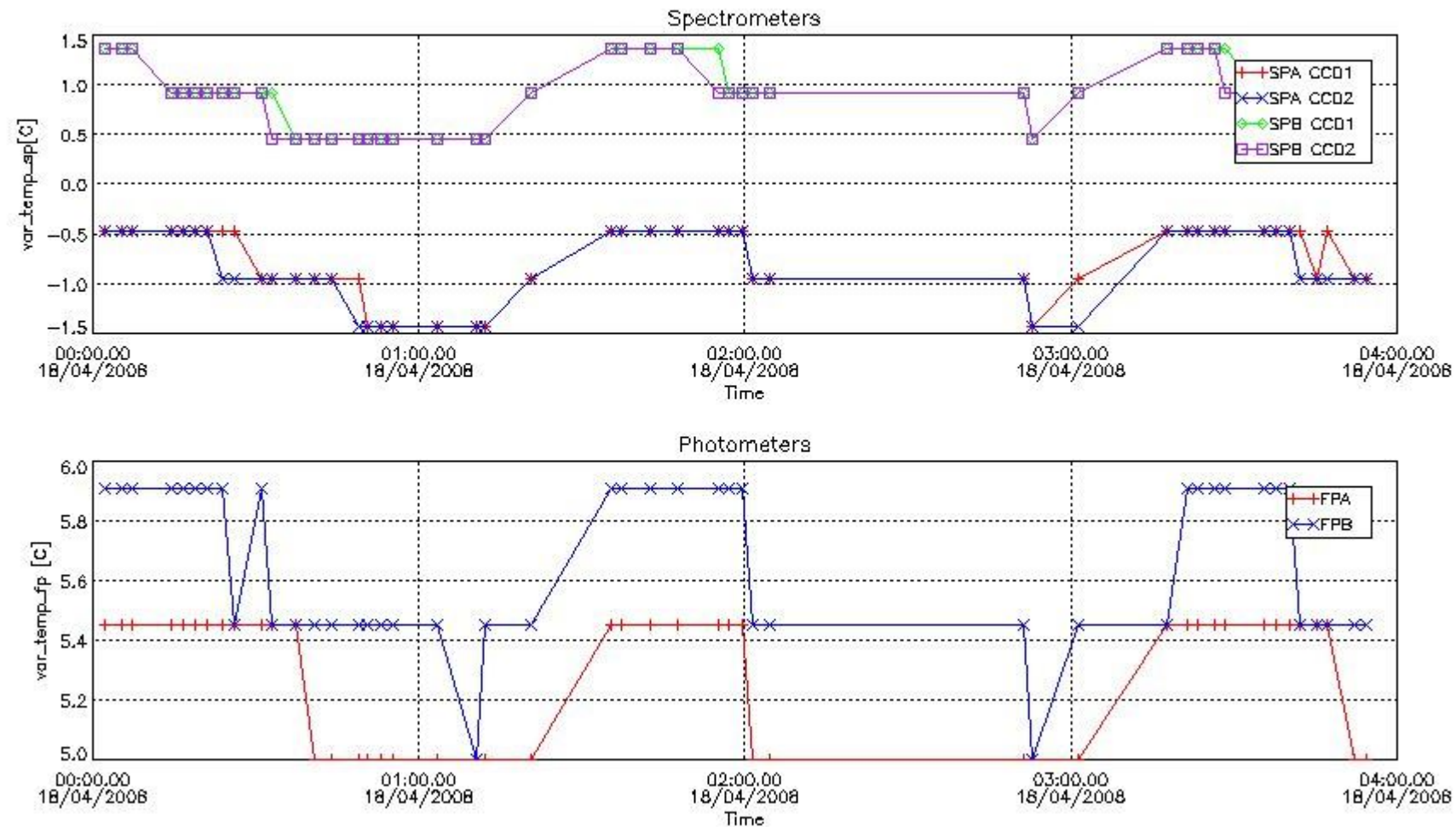
### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
18-APR-2008 00:00:04	GamGru	172	32062
18-APR-2008 01:40:41	GamGru	172	32063
18-APR-2008 01:45:48	AlpTuc	148	32063
18-APR-2008 02:06:36	5TheCen	54	32064
18-APR-2008 02:11:37	9BetCrv	106	32064
18-APR-2008 02:13:36	7DelCrv	163	32064
18-APR-2008 02:17:49	29GamVir	121	32064
18-APR-2008 02:21:30	47EpsVir	138	32064
18-APR-2008 02:24:37	68DelLeo	96	32064
18-APR-2008 02:29:32	12Alp2CVn	152	32064
18-APR-2008 02:31:12	52PsiUMa	174	32064
18-APR-2008 02:33:31	64GamUMa	87	32064
18-APR-2008 02:35:56	50AlpUMa	36	32064
18-APR-2008 02:43:55	1AlpUMi	49	32064
18-APR-2008 04:41:49	44EtaPeg	164	32065

## 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_1PNPDE20080418_000204_000000402067_00445_32062_7047.N1	18-APR-2008 00:02:04	Dark	39.500	31	Alp Gru	1.7340	15200.	79	32062	No
2	GOM_TRA_1PNPDE20080418_000512_000000382067_00445_32062_7048.N1	18-APR-2008 00:05:12	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	32062	No
3	GOM_TRA_1PNPDE20080418_000708_000000452067_00446_32063_7049.N1	18-APR-2008 00:07:08	Dark	45.000	45	Alp Pav	1.9400	26000.	90	32063	No
4	GOM_TRA_1PNPDE20080418_001425_000000392067_00446_32063_7050.N1	18-APR-2008 00:14:25	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	32063	No
5	GOM_TRA_1PNPDE20080418_001632_000000392067_00446_32063_7051.N1	18-APR-2008 00:16:32	Straylight	38.500	134	Bet TrA	2.8100	6600.0	77	32063	No
6	GOM_TRA_1PNPDE20080418_001853_000000542067_00446_32063_7052.N1	18-APR-2008 00:18:53	Straylight	53.500	4	Alp1Cen	-0.010000	5800.0	107	32063	No
7	GOM_TRA_1PNPDE20080418_002057_000000402067_00446_32063_7053.N1	18-APR-2008 00:20:57	Straylight	39.500	20	Bet Cru	1.2530	30000.	79	32063	No
8	GOM_TRA_1PNPDE20080418_002354_000000382067_00446_32063_7054.N1	18-APR-2008 00:23:54	Straylight	37.500	64	Gam Cen	2.2000	10600.	75	32063	No
9	GOM_TRA_1PNPDE20080418_002600_000000502067_00446_32063_7055.N1	18-APR-2008 00:26:00	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	32063	No
10	GOM_TRA_1PNPDE20080418_003102_000000402067_00446_32063_7056.N1	18-APR-2008 00:31:02	Twilight_stray	39.500	106	9Bet Crv	2.6480	5600.0	79	32063	No
11	GOM_TRA_1PNPDE20080418_003300_000000362067_00446_32063_7057.N1	18-APR-2008 00:33:00	Bright	36.000	163	7Del Crv	2.9450	11000.	72	32063	No
12	GOM_TRA_1PNPDE20080418_003714_000000382067_00446_32063_7058.N1	18-APR-2008 00:37:14	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	32063	No
13	GOM_TRA_1PNPDE20080418_004054_000000382067_00446_32063_7059.N1	18-APR-2008 00:40:54	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	32063	No
14	GOM_TRA_1PNPDE20080418_004402_000000352067_00446_32063_7060.N1	18-APR-2008 00:44:02	Bright	35.000	96	68Del Leo	2.5600	9300.0	70	32063	No
15	GOM_TRA_1PNPDE20080418_004857_000000362067_00446_32063_7061.N1	18-APR-2008 00:48:57	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	32063	No
16	GOM_TRA_1PNPDE20080418_005036_000000352067_00446_32063_7062.N1	18-APR-2008 00:50:36	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	32063	No
17	GOM_TRA_1PNPDE20080418_005256_000000342067_00446_32063_7063.N1	18-APR-2008 00:52:56	Bright	33.500	87	64Gam UMa	2.4330	11000.	67	32063	No
18	GOM_TRA_1PNPDE20080418_005521_000000362067_00446_32063_7064.N1	18-APR-2008 00:55:21	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	32063	No
19	GOM_TRA_1PNPDE20080418_010319_000000352067_00446_32063_7065.N1	18-APR-2008 01:03:19	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	32063	No
20	GOM_TRA_1PNPDE20080418_011039_000000482067_00446_32063_7066.N1	18-APR-2008 01:10:39	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	32063	No
21	GOM_TRA_1PNPDE20080418_011212_000000342067_00446_32063_7067.N1	18-APR-2008 01:12:12	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	32063	No
22	GOM_TRA_1PNPDE20080418_012037_000000472067_00446_32063_7068.N1	18-APR-2008 01:20:37	Bright	47.000	164	44Eta Peg	2.9480	5400.0	94	32063	No
23	GOM_TRA_1PNPDE20080418_013529_000000302067_00446_32063_7182.N1	18-APR-2008 01:35:29	Dark	30.000	142	49Del Cap	2.8500	8900.0	60	32063	No
24	GOM_TRA_1PNPDE20080418_013710_000000422067_00446_32063_7183.N1	18-APR-2008 01:37:10	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	32063	No
25	GOM_TRA_1PNPDE20080418_014240_000000392067_00446_32063_7184.N1	18-APR-2008 01:42:40	Dark	39.000	31	Alp Gru	1.7340	15200.	78	32063	No
26	GOM_TRA_1PNPDE20080418_014745_000000422067_00447_32064_7185.N1	18-APR-2008 01:47:45	Dark	41.500	45	Alp Pav	1.9400	26000.	83	32064	No
27	GOM_TRA_1PNPDE20080418_015501_000000422067_00447_32064_7186.N1	18-APR-2008 01:55:01	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	32064	No
28	GOM_TRA_1PNPDE20080418_015708_000000382067_00447_32064_7187.N1	18-APR-2008 01:57:08	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	32064	No
29	GOM_TRA_1PNPDE20080418_015929_000000462067_00447_32064_7188.N1	18-APR-2008 01:59:29	Straylight	45.500	4	Alp1Cen	-0.010000	5800.0	91	32064	No
30	GOM_TRA_1PNPDE20080418_020133_000000372067_00447_32064_7283.N1	18-APR-2008 02:01:33	Straylight	37.000	20	Bet Cru	1.2530	30000.	74	32064	Yes
31	GOM_TRA_1PNPDE20080418_020430_000000242067_00447_32064_7327.N1	18-APR-2008 02:04:30	Straylight	23.500	64	Gam Cen	2.2000	10600.	47	32064	Yes
32	GOM_TRA_1PNPDE20080418_025115_000000342067_00447_32064_7631.N1	18-APR-2008 02:51:15	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	32064	No
33	GOM_TRA_1PNPDE20080418_025248_000000342067_00447_32064_7632.N1	18-APR-2008 02:52:48	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	32064	No
34	GOM_TRA_1PNPDE20080418_030113_000000412067_00447_32064_7633.N1	18-APR-2008 03:01:13	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	32064	No
35	GOM_TRA_1PNPDE20080418_031746_000000442067_00447_32064_7634.N1	18-APR-2008 03:17:46	Dark	43.500	18	24Alp PsA	1.1660	9700.0	87	32064	No
36	GOM_TRA_1PNPDE20080418_032118_000000382067_00447_32064_7635.N1	18-APR-2008 03:21:18	Dark	38.000	172	Gam Gru	3.0030	13100.	76	32064	No
37	GOM_TRA_1PNPDE20080418_032317_000000402067_00447_32064_7636.N1	18-APR-2008 03:23:17	Dark	39.500	31	Alp Gru	1.7340	15200.	79	32064	No
38	GOM_TRA_1PNPDE20080418_032625_000000382067_00447_32064_7637.N1	18-APR-2008 03:26:25	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	32064	No
39	GOM_TRA_1PNPDE20080418_032821_000000402067_00448_32065_7638.N1	18-APR-2008 03:28:21	Dark	39.500	45	Alp Pav	1.9400	26000.	79	32065	No
40	GOM_TRA_1PNPDE20080418_033537_000000432067_00448_32065_7639.N1	18-APR-2008 03:35:37	Dark	42.500	43	Alp TrA	1.9100	4250.0	85	32065	No
41	GOM_TRA_1PNPDE20080418_033745_000000402067_00448_32065_7640.N1	18-APR-2008 03:37:45	Straylight	39.500	134	Bet TrA	2.8100	6600.0	79	32065	No
42	GOM_TRA_1PNPDE20080418_034005_000000532067_00448_32065_7641.N1	18-APR-2008 03:40:05	Straylight	53.000	4	Alp1Cen	-0.010000	5800.0	106	32065	No
43	GOM_TRA_1PNPDE20080418_034209_000000392067_00448_32065_7642.N1	18-APR-2008 03:42:09	Straylight	38.500	20	Bet Cru	1.2530	30000.	77	32065	No
44	GOM_TRA_1PNPDE20080418_034506_000000372067_00448_32065_7643.N1	18-APR-2008 03:45:06	Straylight	36.500	64	Gam Cen	2.2000	10600.	73	32065	No
45	GOM_TRA_1PNPDE20080418_034713_000000462067_00448_32065_7644.N1	18-APR-2008 03:47:13	Straylight	45.500	54	5The Cen	2.0550	4500.0	91	32065	No
46	GOM_TRA_1PNPDE20080418_035214_000000422067_00448_32065_7645.N1	18-APR-2008 03:52:14	Twilight_stray	41.500	106	9Bet Crv	2.6480	5600.0	83	32065	No
47	GOM_TRA_1PNPDE20080418_035413_000000362067_00448_32065_7646.N1	18-APR-2008 03:54:13	Bright	36.000	163	7Del Crv	2.9450	11000.	72	32065	No

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



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

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

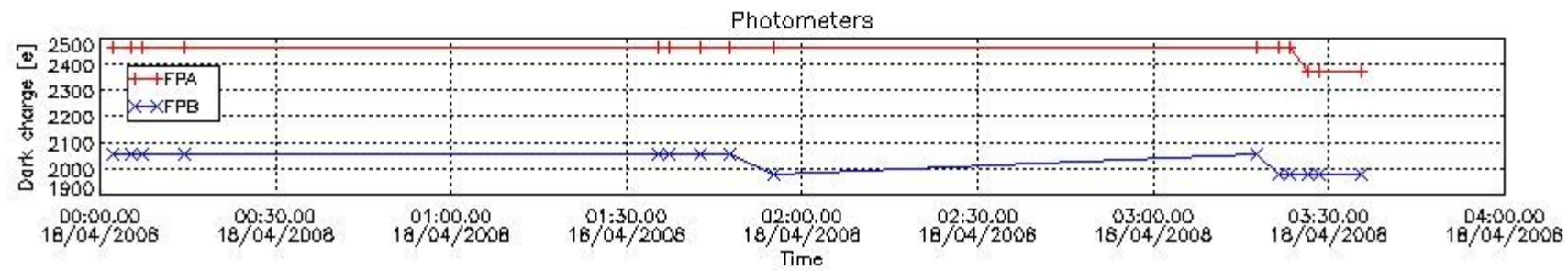
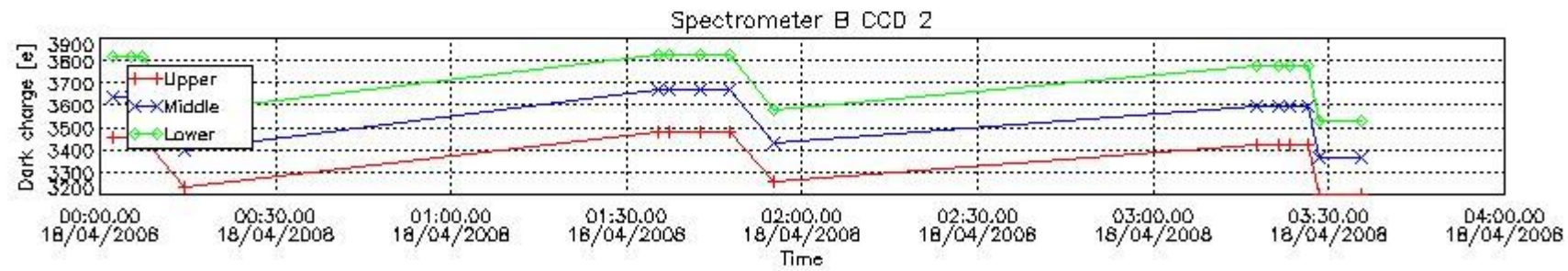
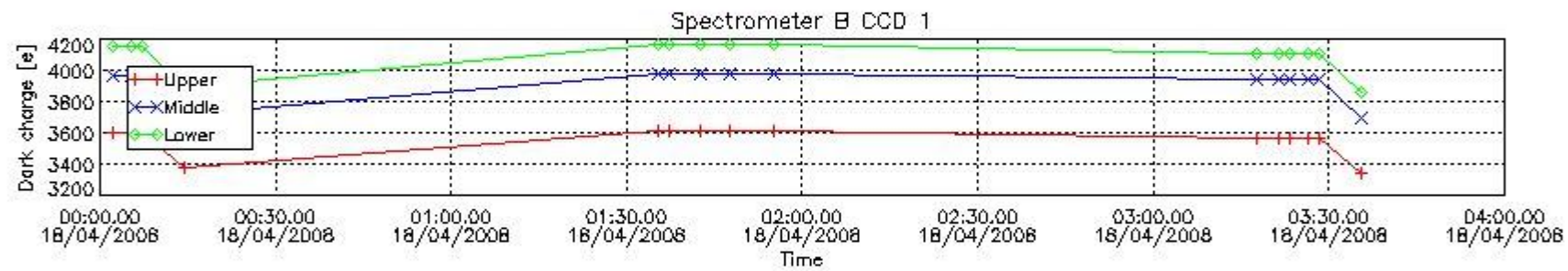
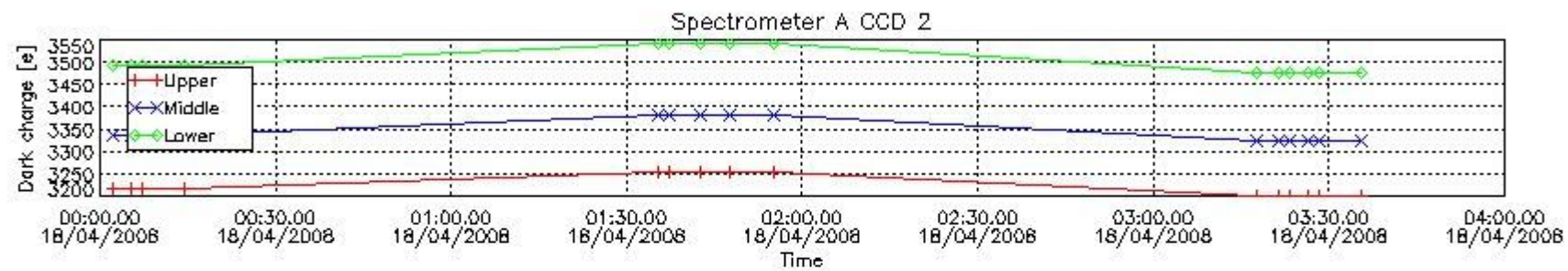
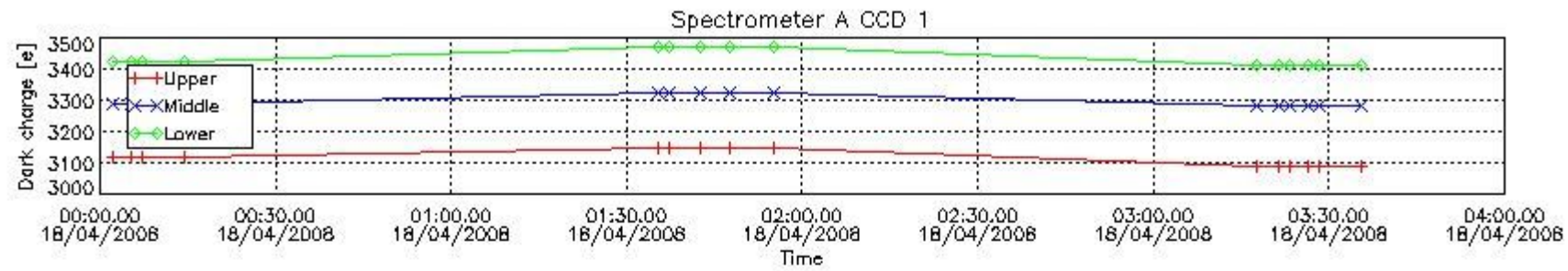
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20080418_020133_000000372067_00447_32064_7283.N1	DC map with no T dep.
GOM_TRA_1PNPDE20080418_020430_000000242067_00447_32064_7327.N1	DC map with no T dep.

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





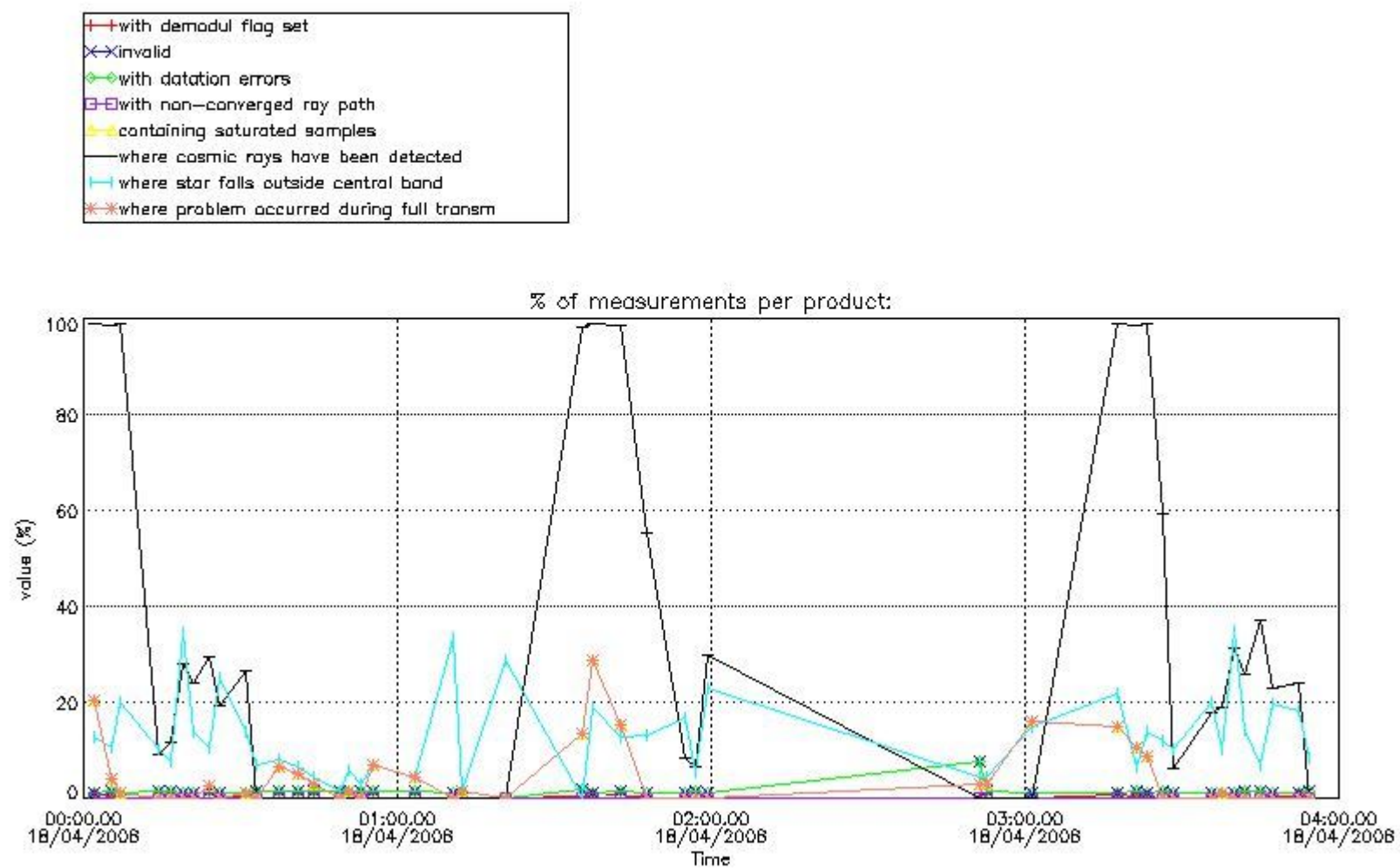
## 5. Demodulation flag and quality information monitoring

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:

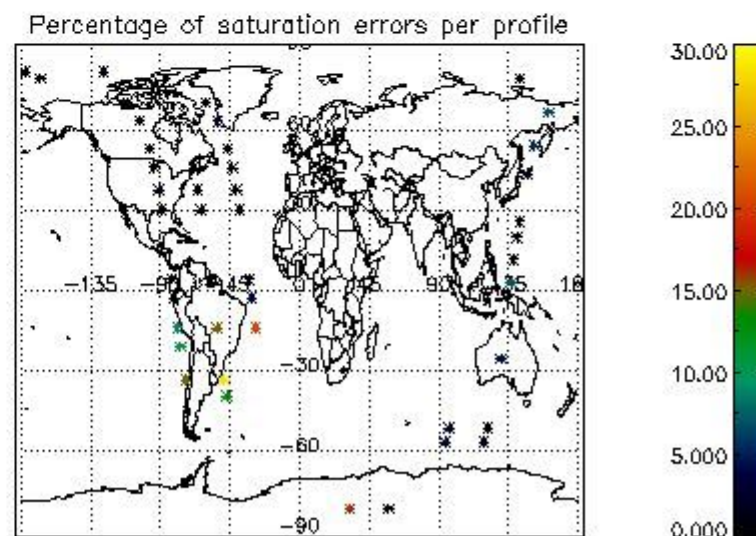
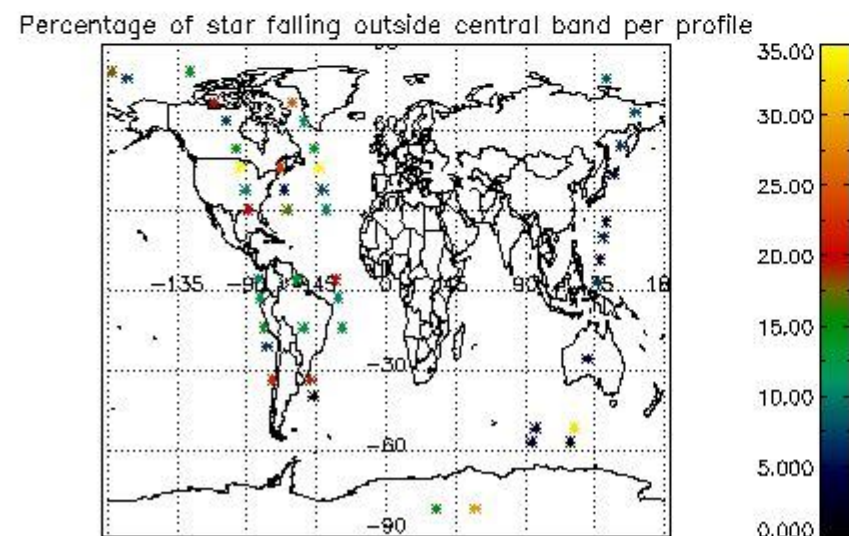
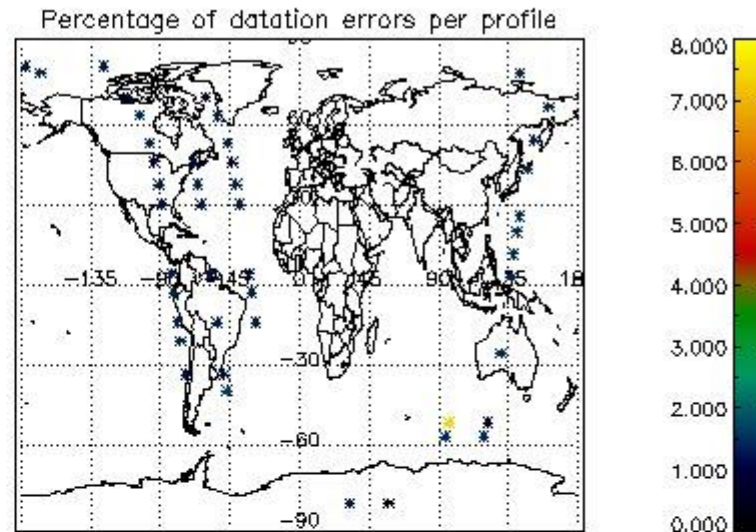
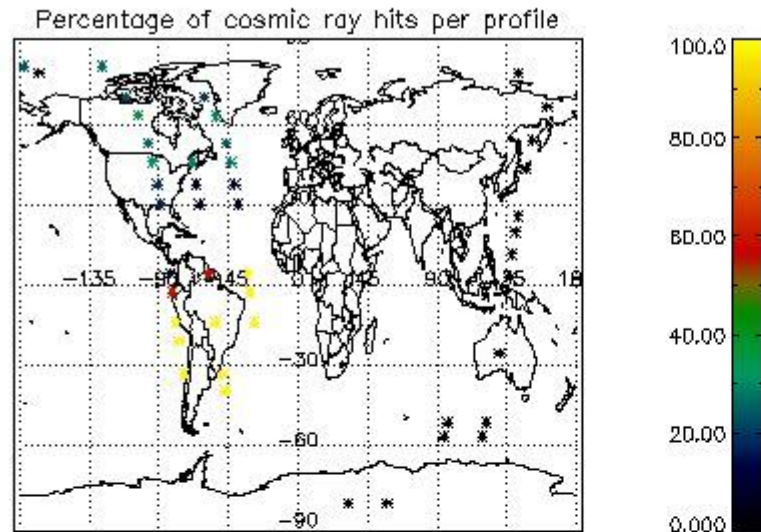
At least one measurement with demodulation flag set:	40.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





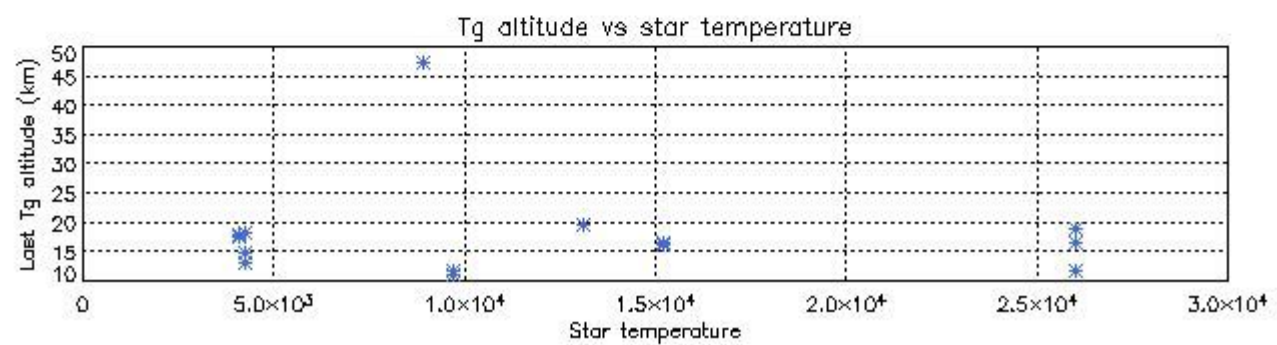
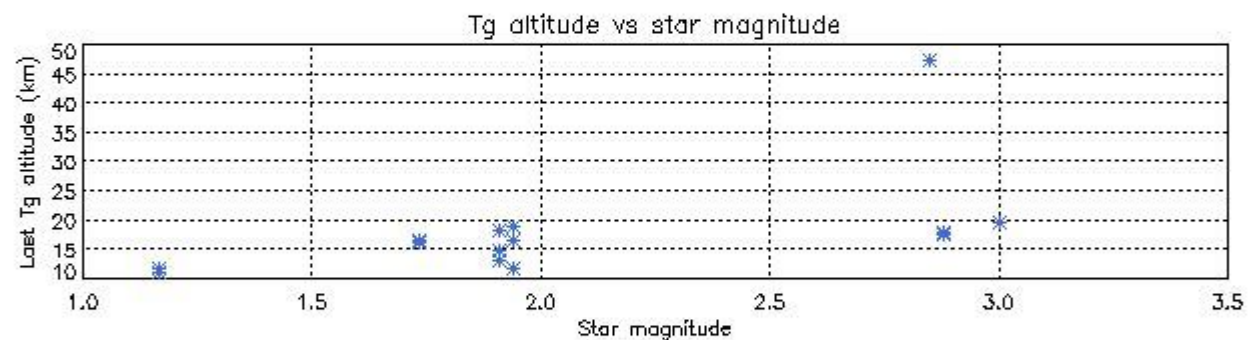
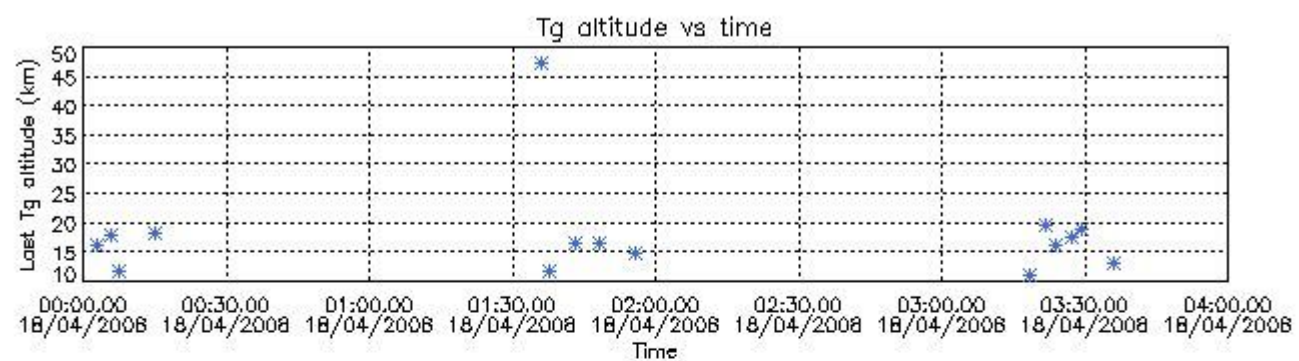
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.794	20.146	NaN
St. deviation:	8.5773	5.5491	NaN
Maximum:	47.207	25.970	NaN
Minimum:	10.899	6.3823	NaN
Number of data:	15.000	16.000	NaN

### 6.2 Plot for DARK limb products

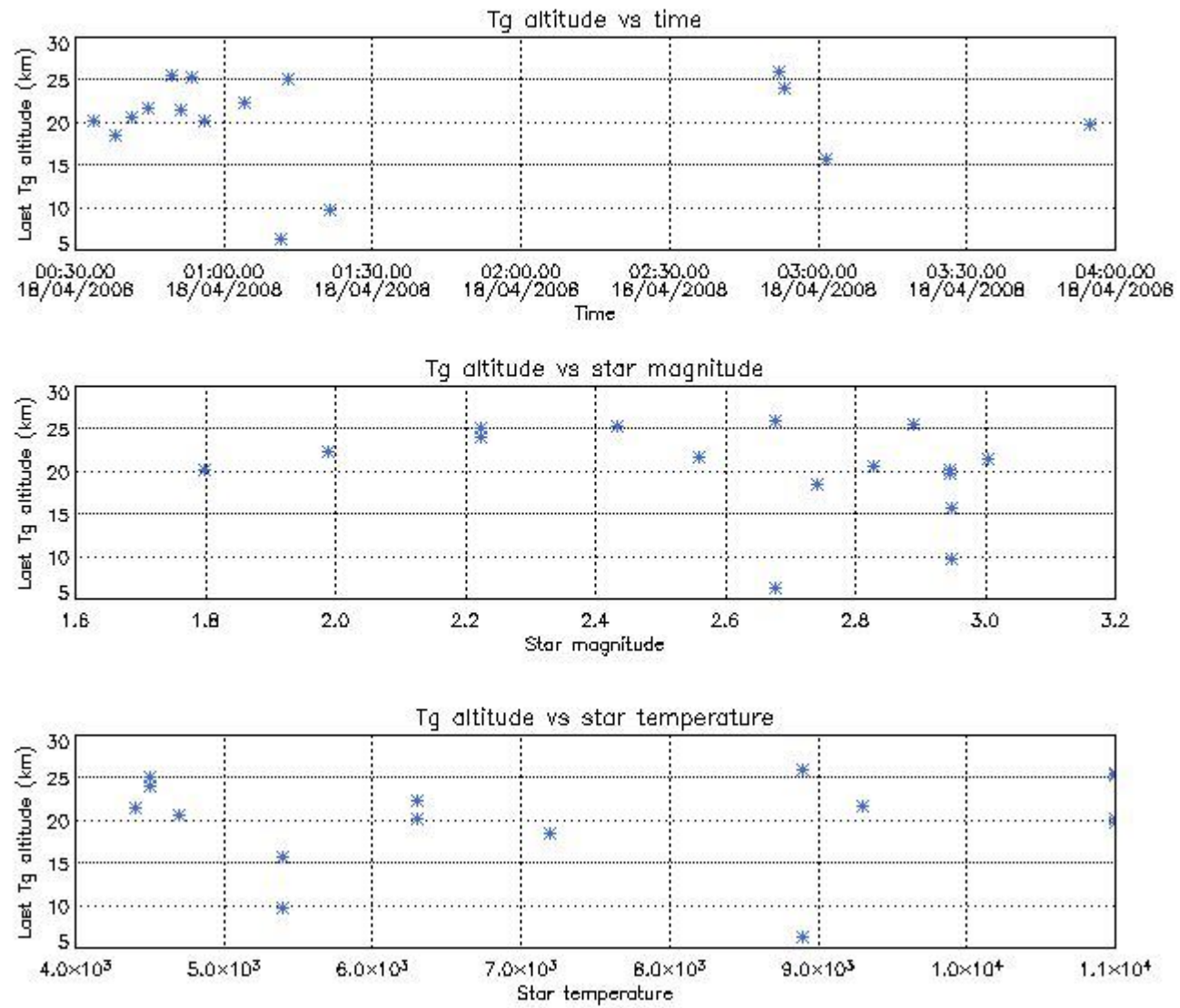
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

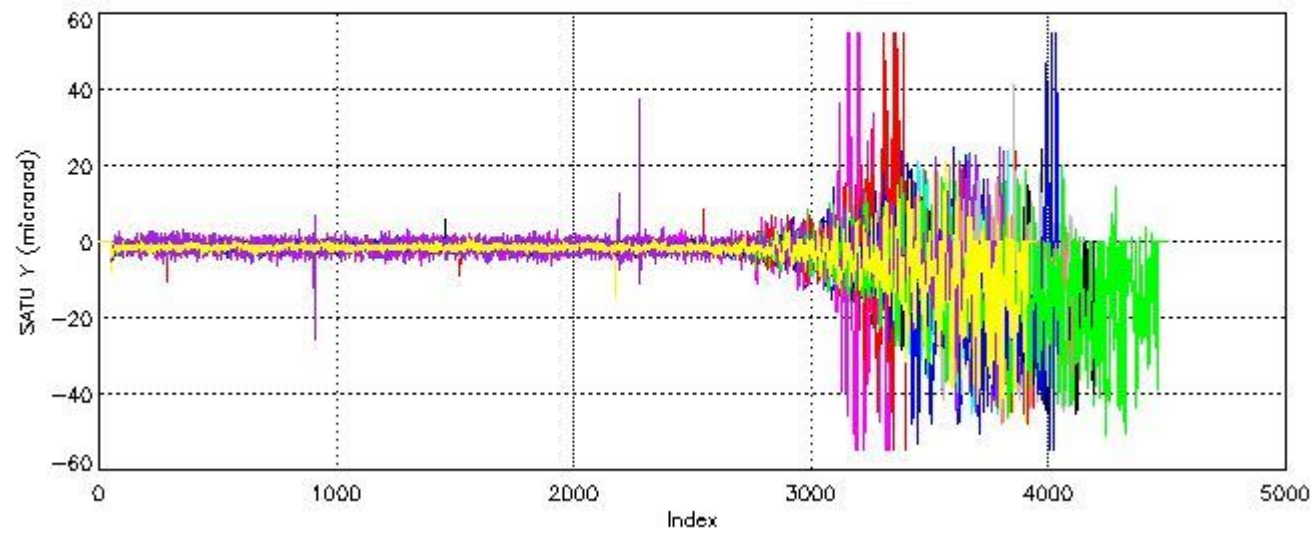
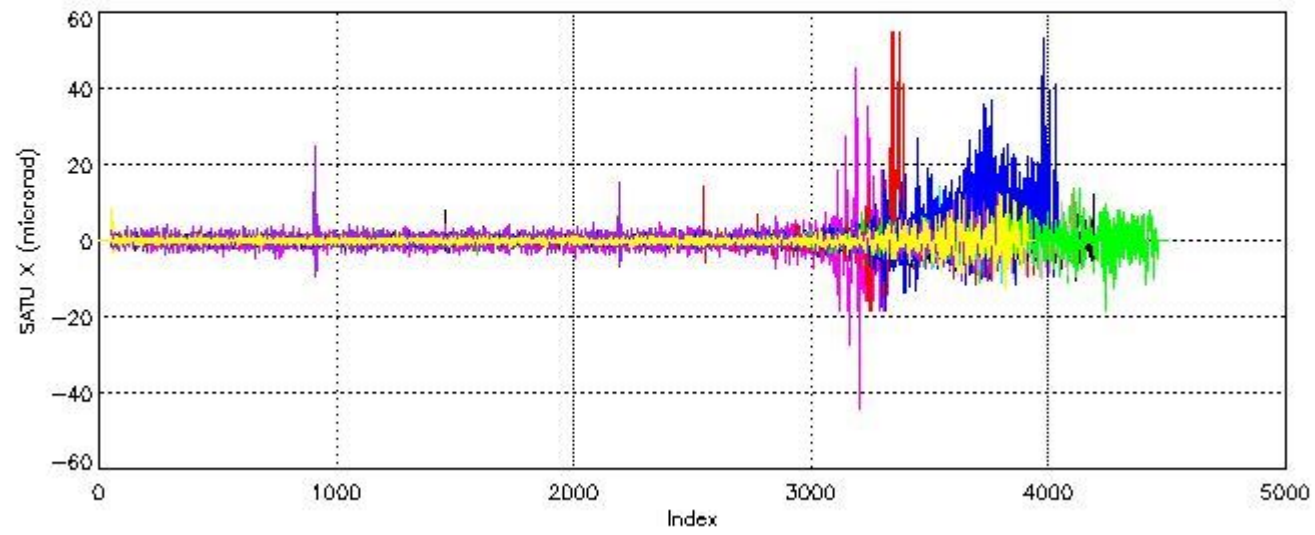


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.035871	-1.3607	-0.017052	-1.3689
St. deviation:	0.52083	0.71599	0.92956	1.0851
Maximum:	8.6000	3.2000	5.1000	4.4000
Minimum:	-4.8000	-10.300	-4.9000	-7.5000

Number of data:	13150.	13150.	13100.	13100.
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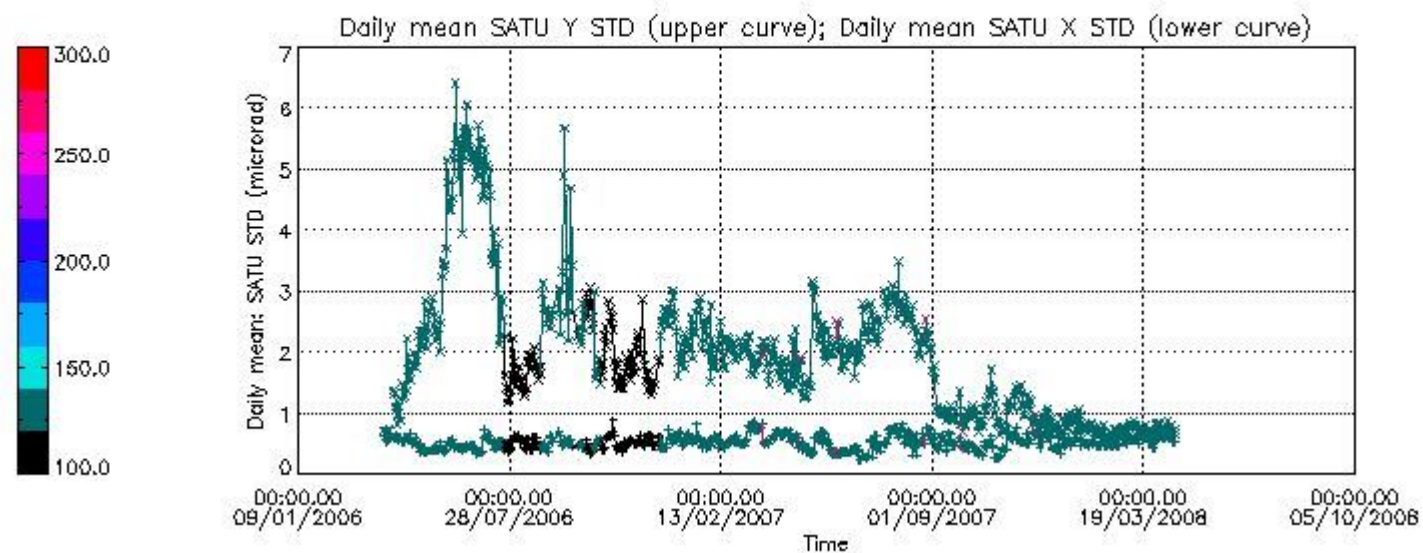
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

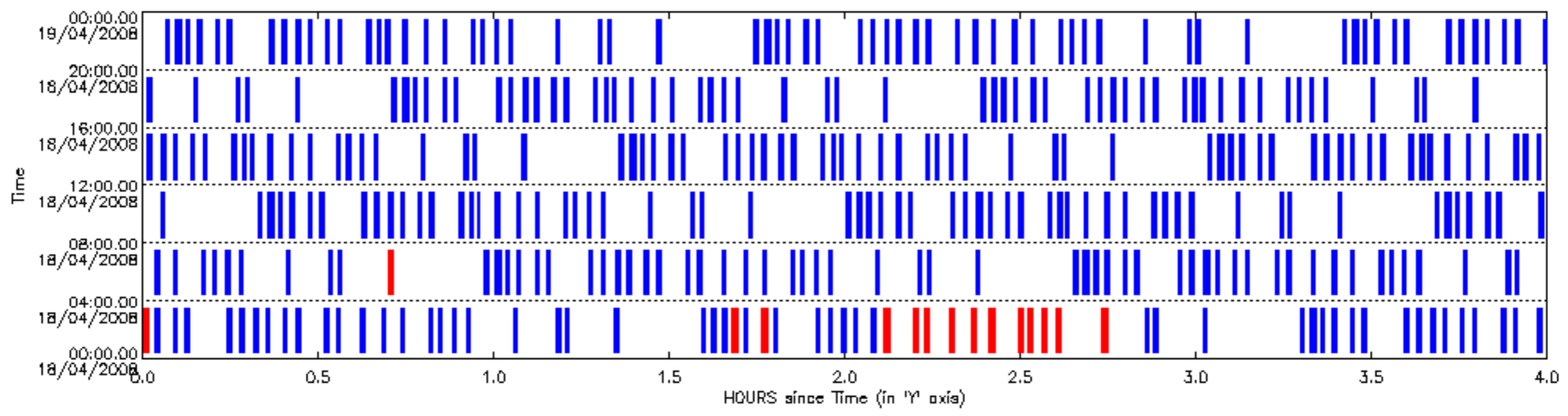


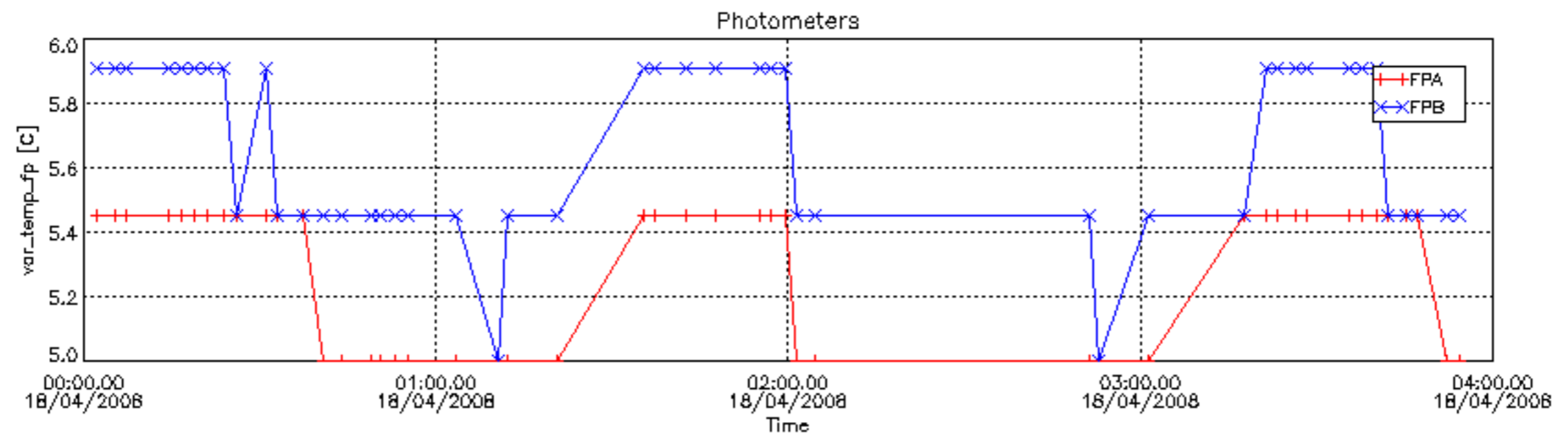
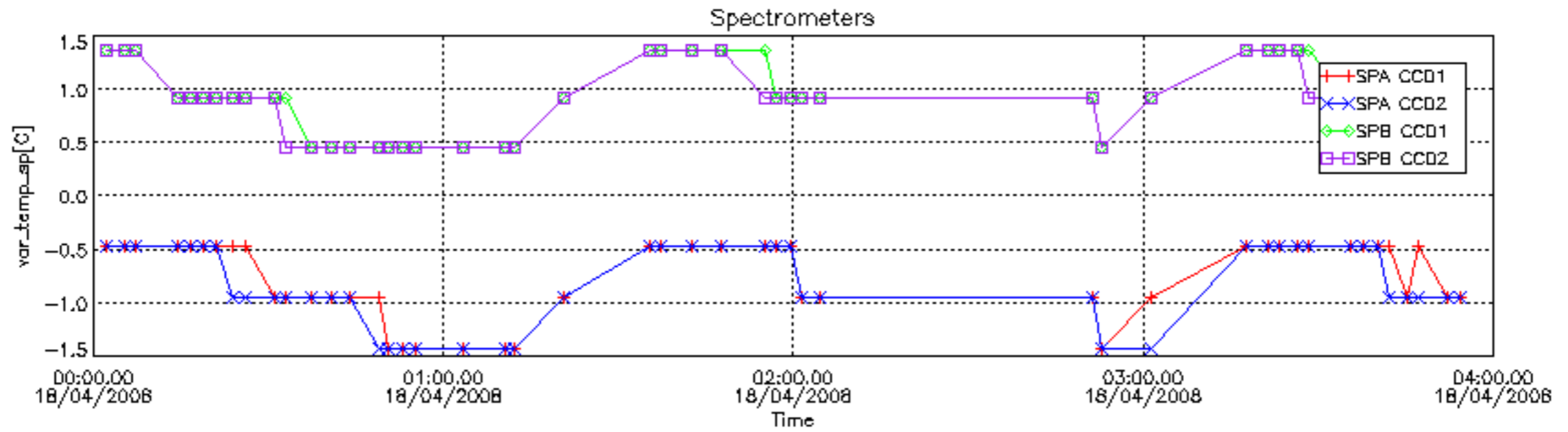
### 8. Auxiliary Data Files used for the production reported in section 2.4

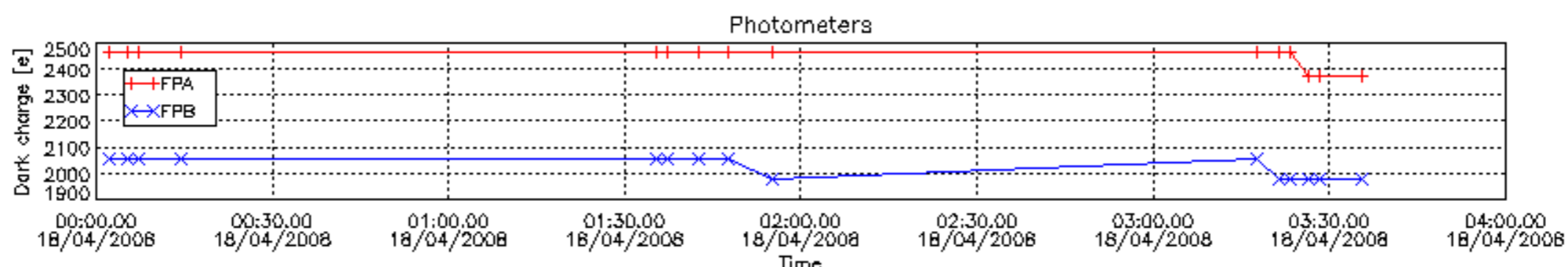
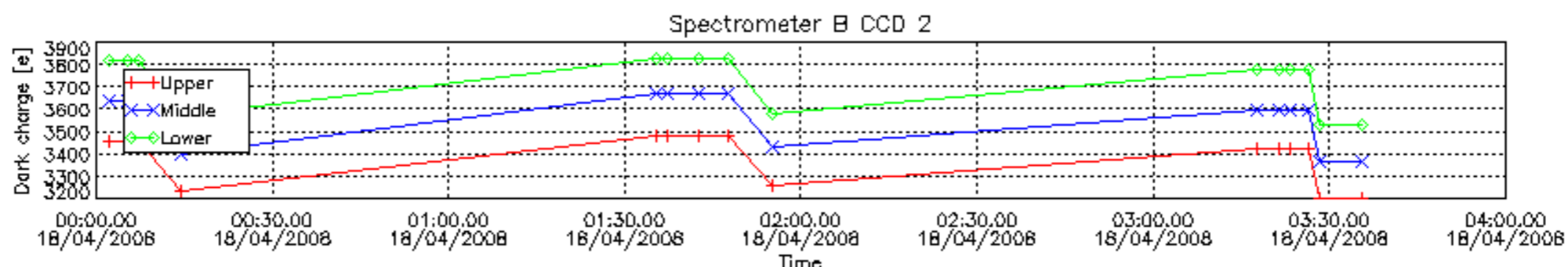
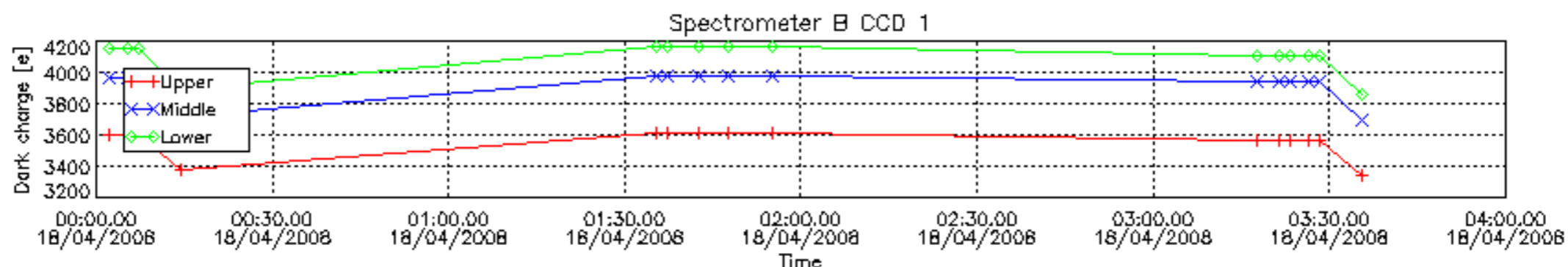
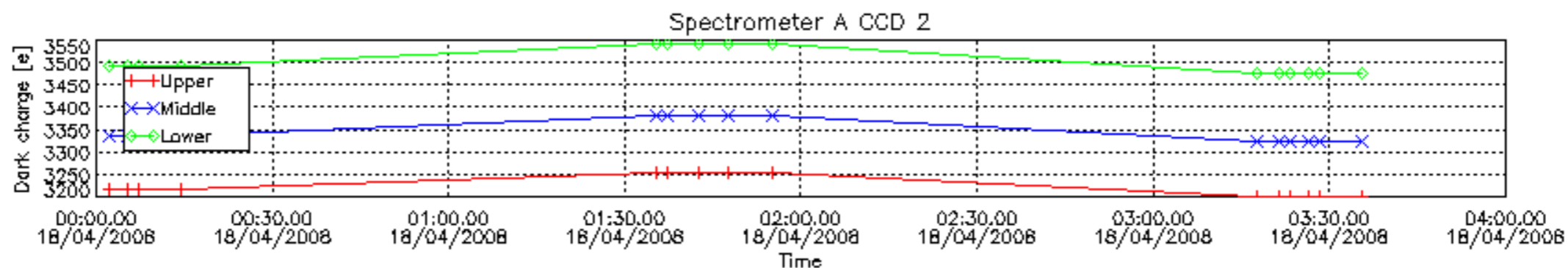
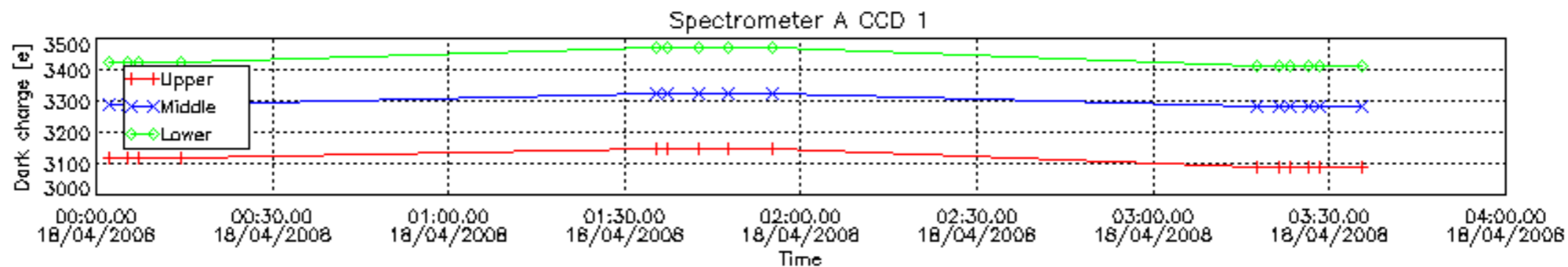
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-APR-2008 00:02:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080408_074258_20080406_000000_20100101_000000	1	18-APR-2008 00:02:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-APR-2008 00:02:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-APR-2008 00:02:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-APR-2008 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20080417_072114_20080417_210000_20080418_090000	1	18-APR-2008 00:02:04
OPTIONAL_ECMWF_FILE	MISSING	1	18-APR-2008 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080417_220819_000060572067_00444_32061_5353.N1	1	18-APR-2008 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080417_235435_000054192067_00445_32062_5354.N1	23	18-APR-2008 01:35:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080418_013013_000019132067_00446_32063_5355.N1	32	18-APR-2008 02:51:15

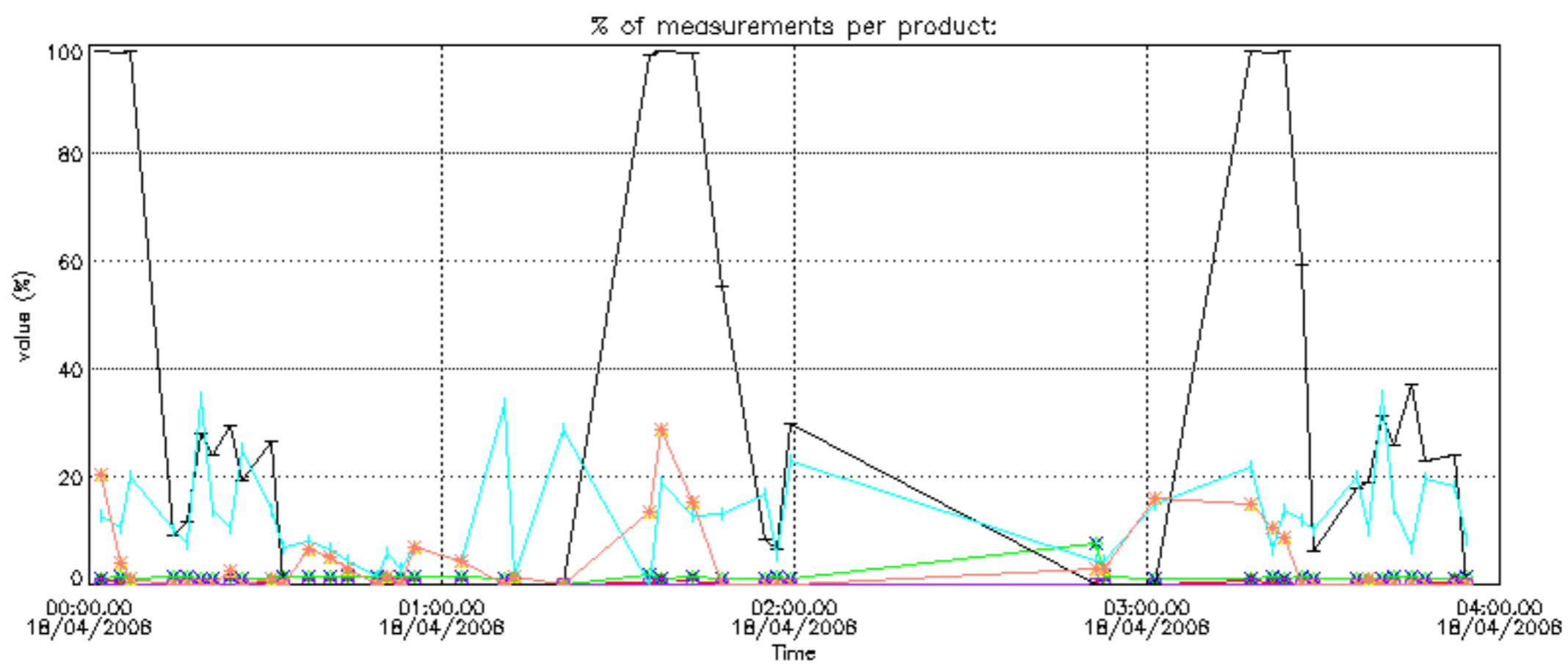




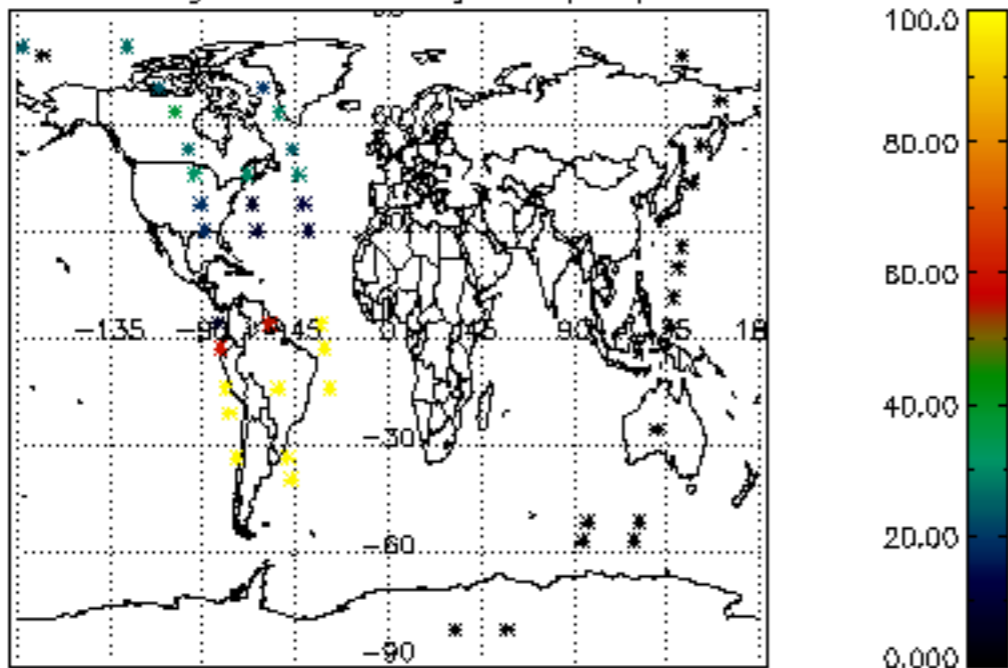




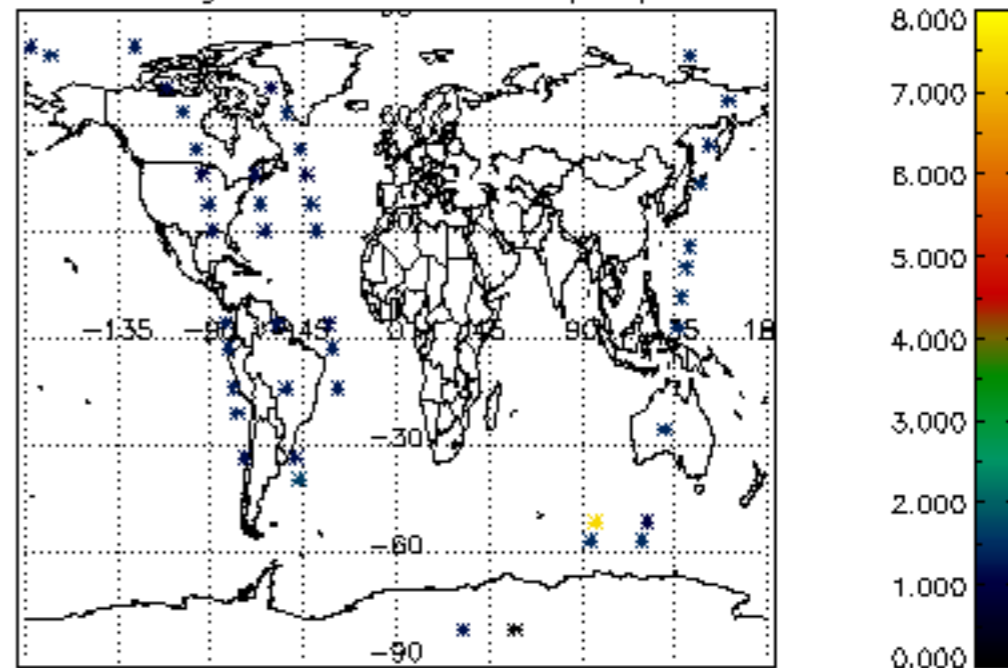




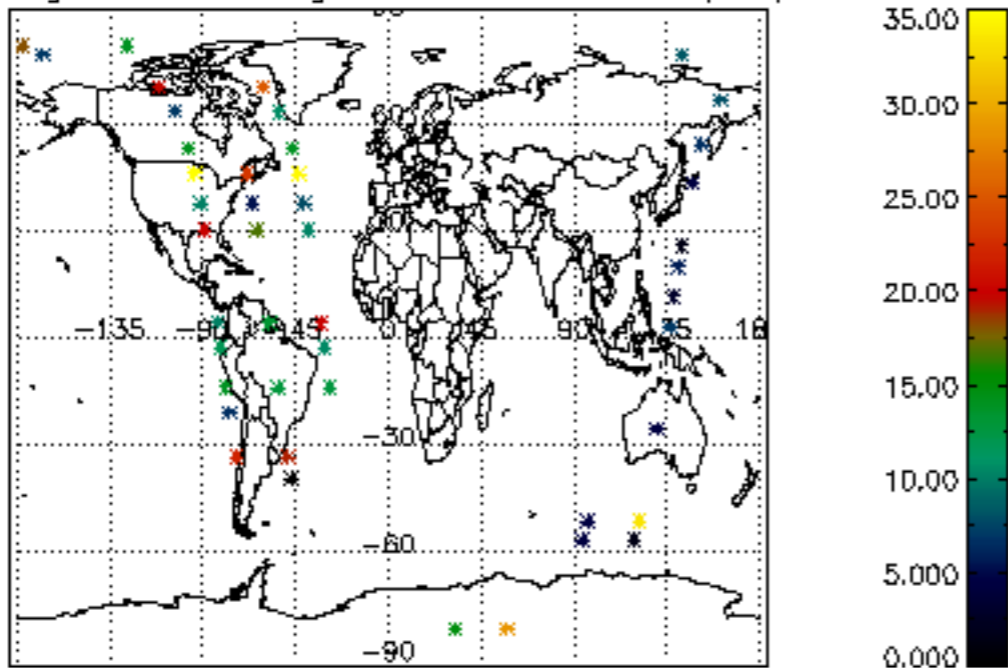
Percentage of cosmic ray hits per profile



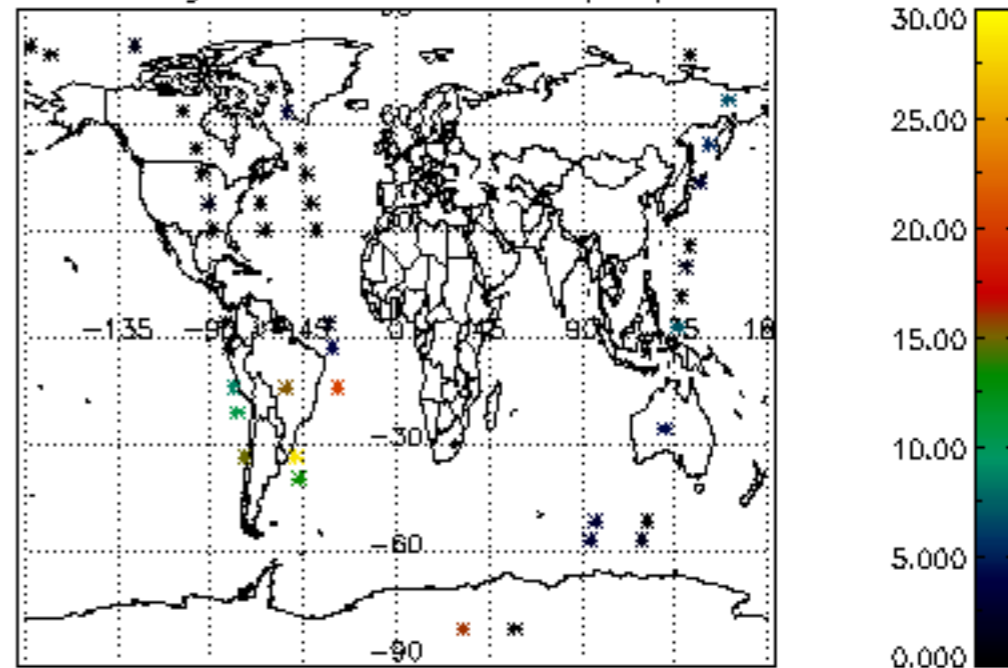
Percentage of datation errors per profile



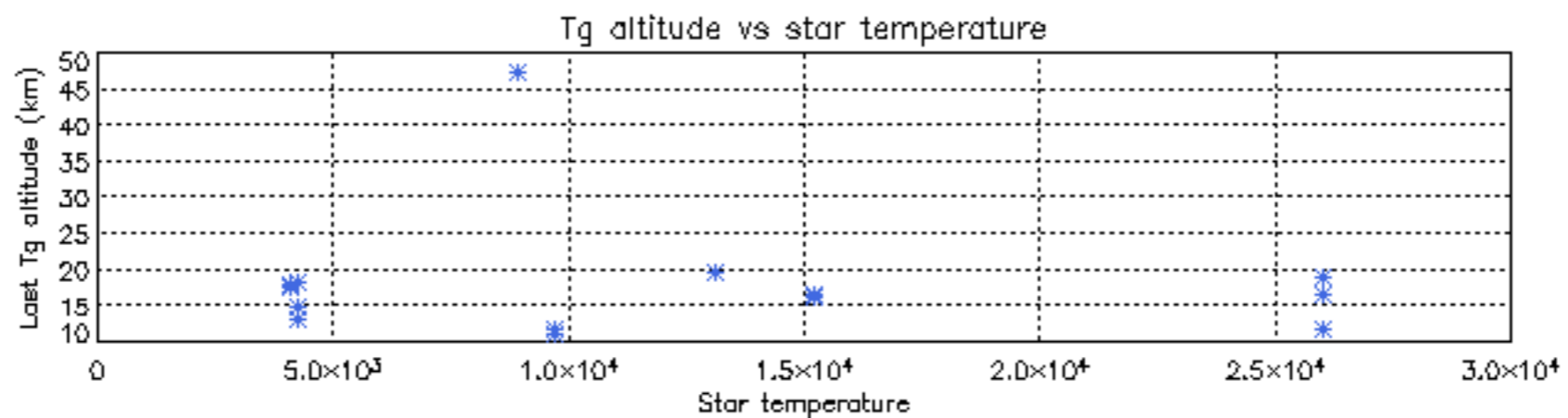
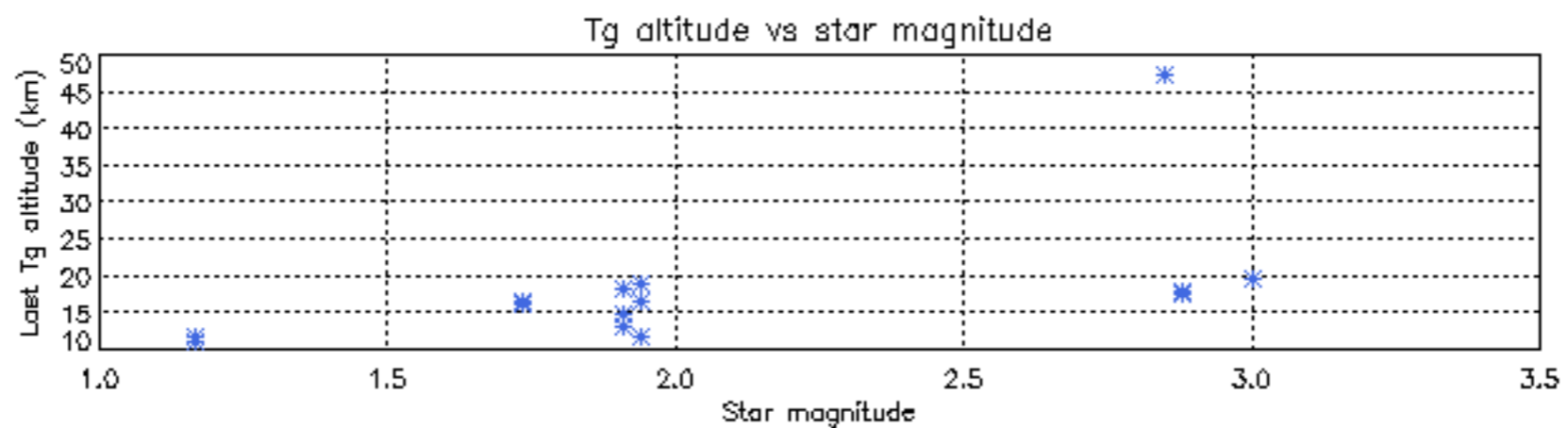
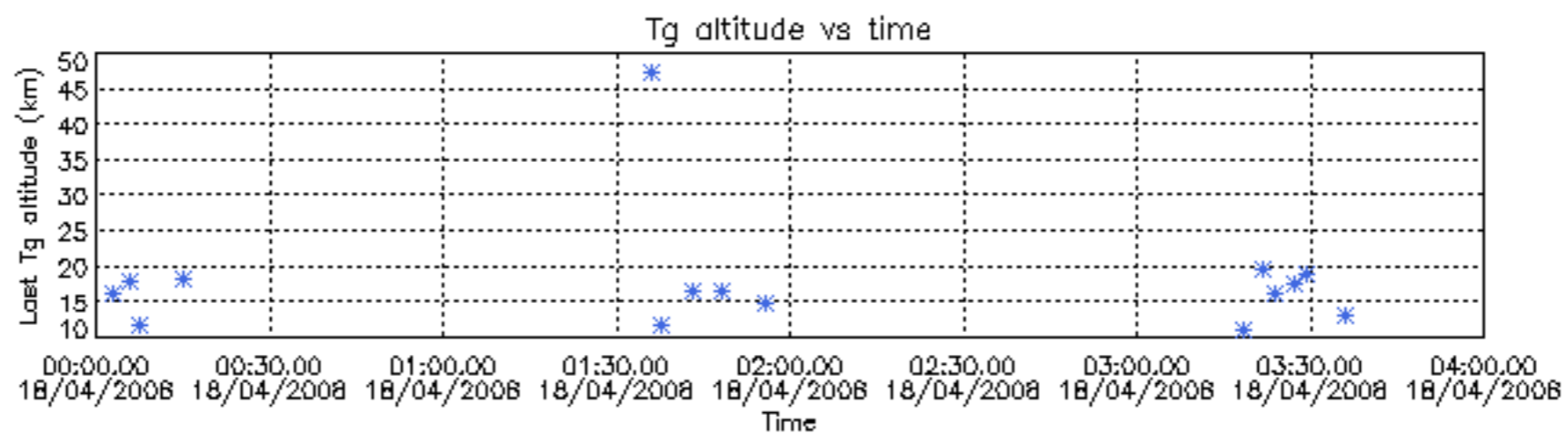
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

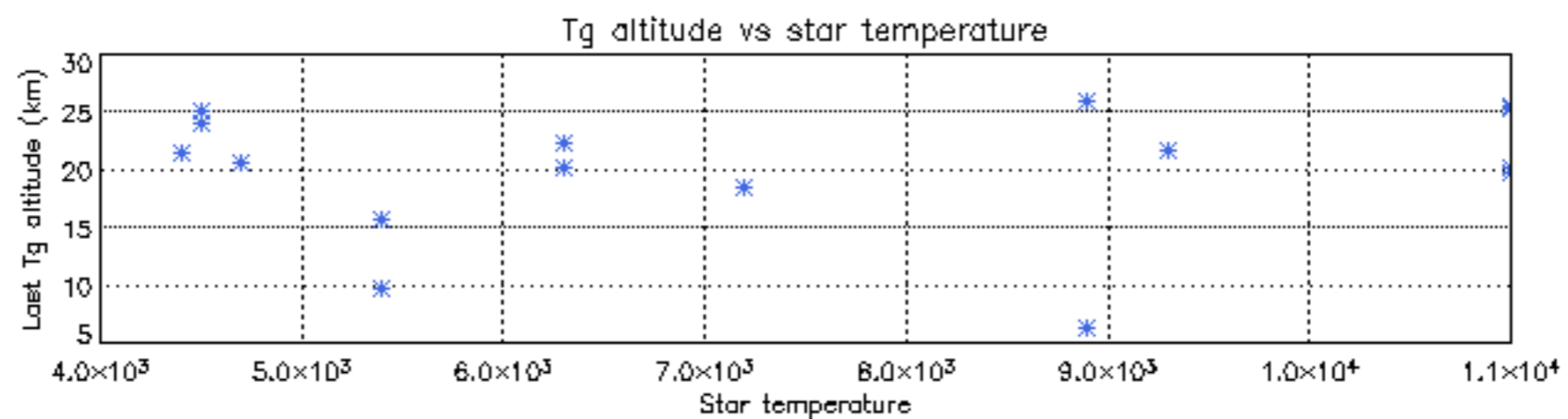
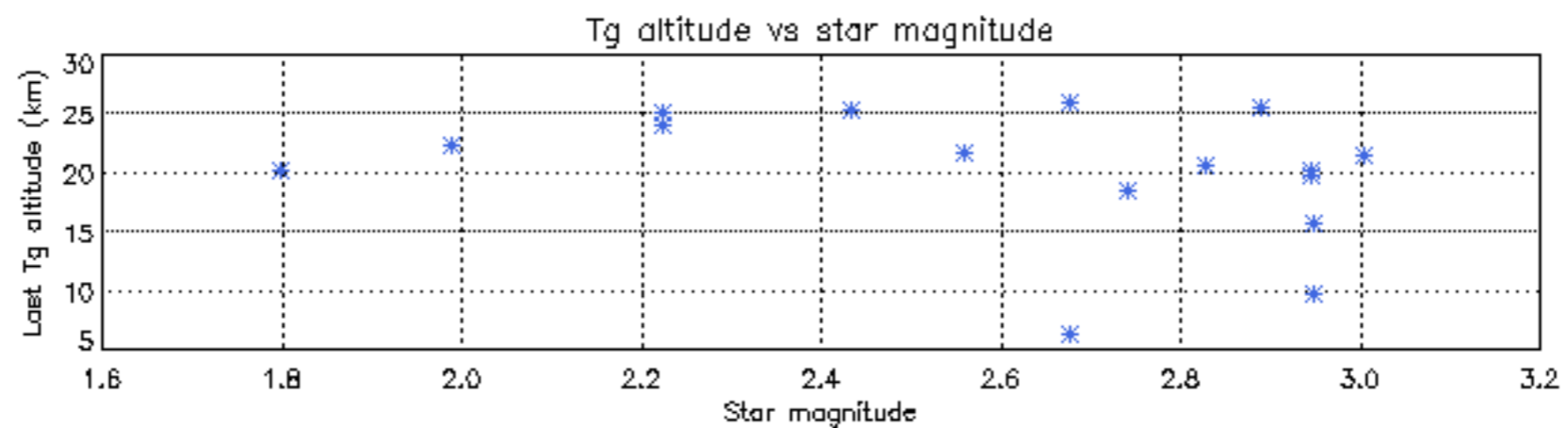
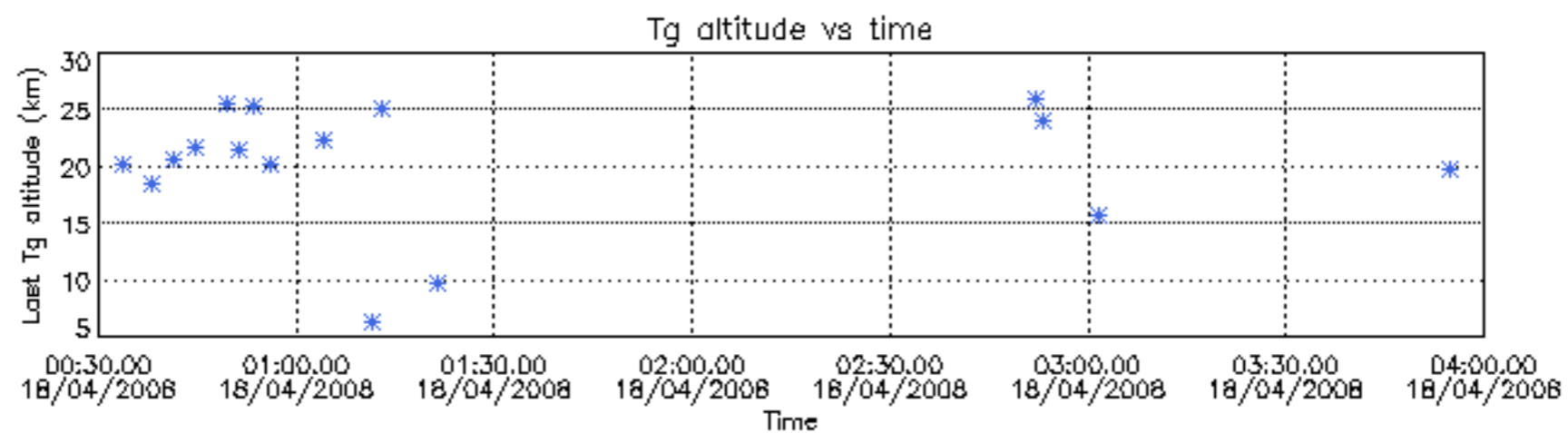


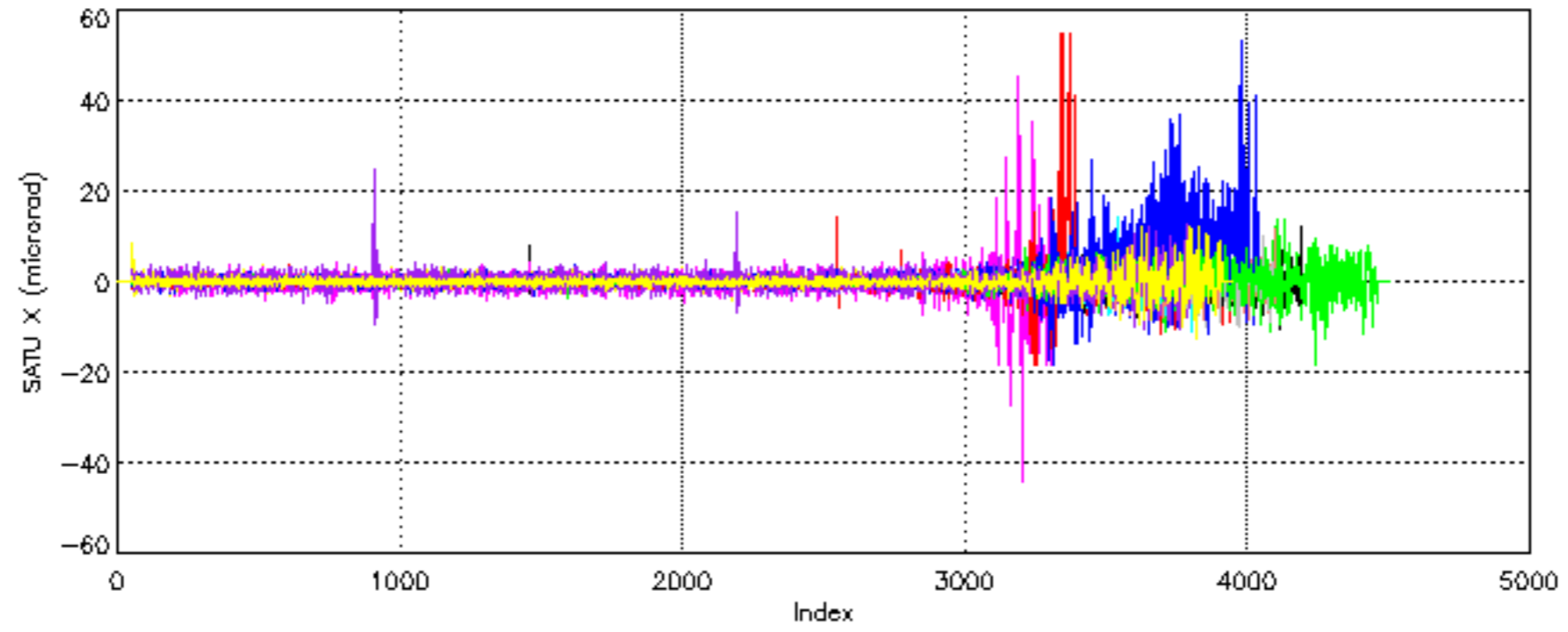
Tangent altitude at which the star is lost

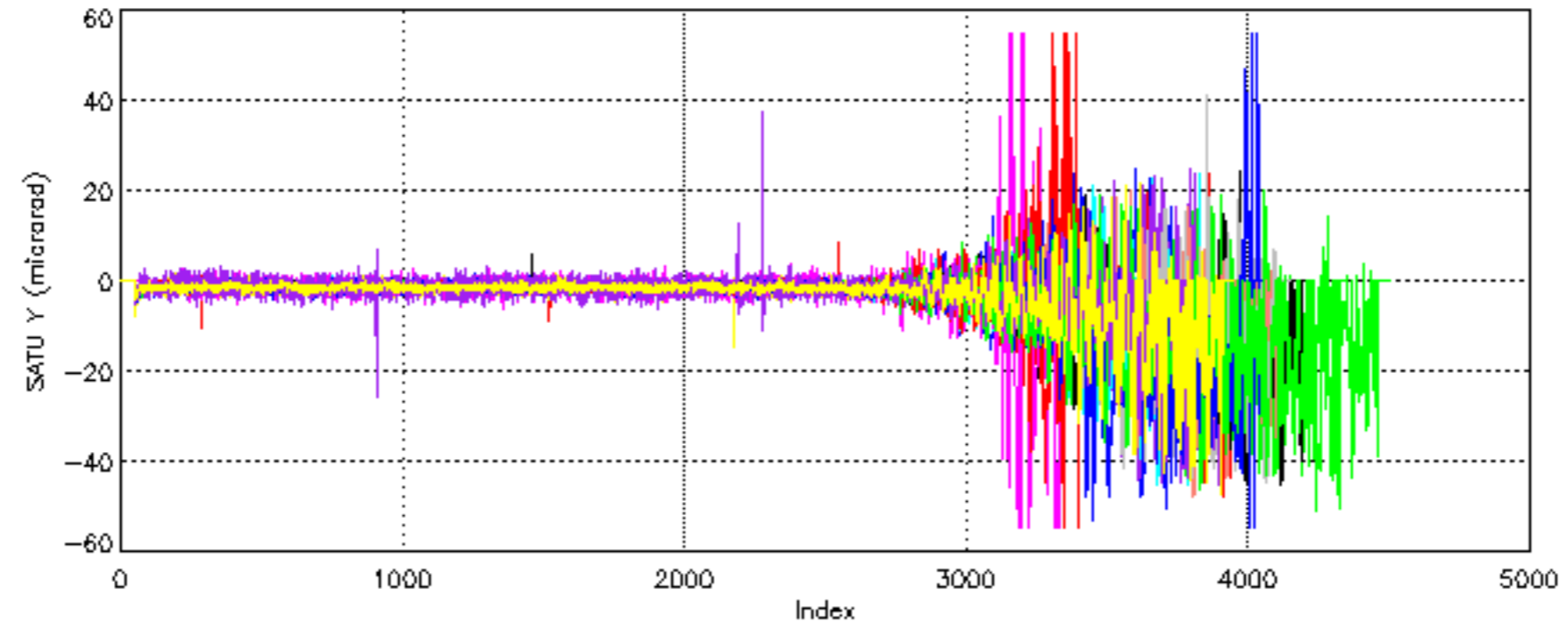


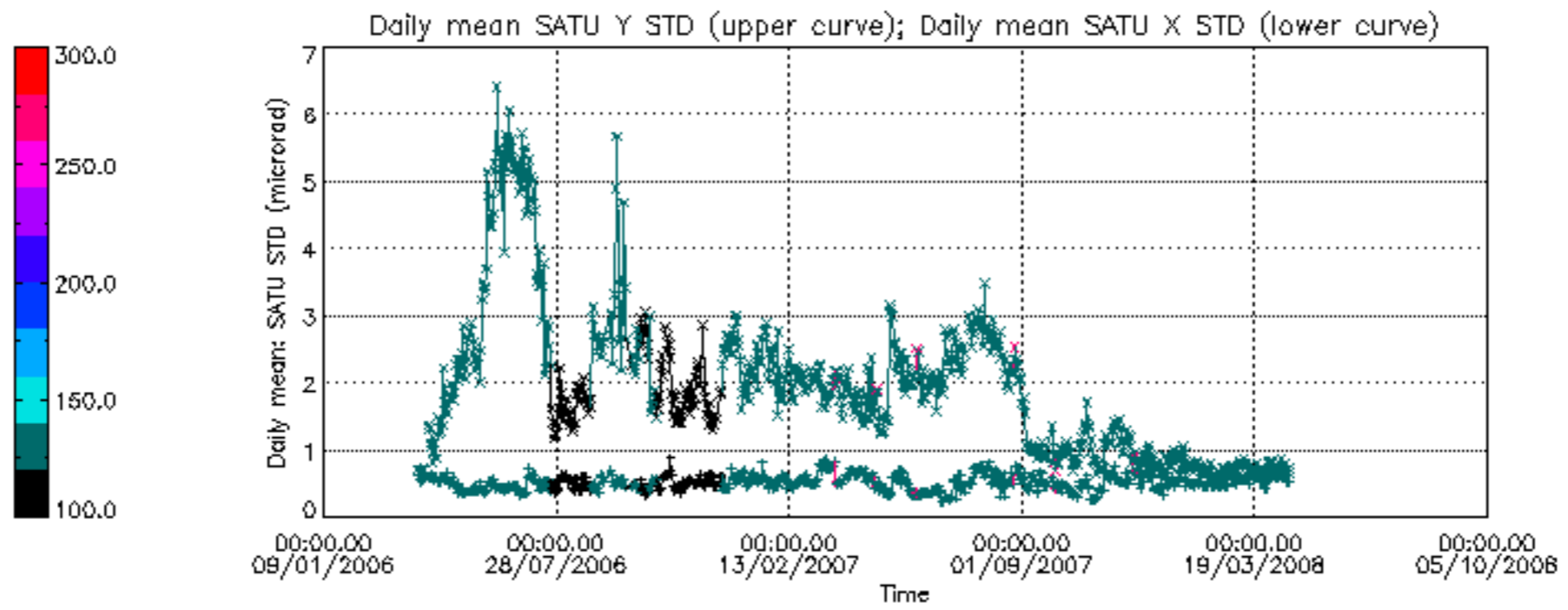


Tangent altitude at which the star is lost











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2;	2257.5;	01-APR-2008	06:19:53;	Bright;	35.5;	96;	68Del Leo	; 2.56;	9300;occ;	71;	0;	31823
3;	2666.1;	01-APR-2008	06:26:42;	Bright;	35.5;	174;	52Psi UMa	; 3.00;	4400;occ;	71;	0;	31823
4;	2846.9;	01-APR-2008	06:29:43;	Bright;	36.0;	87;	64Gam UMa	; 2.43;	11000;occ;	72;	0;	31823
5;	2957.8;	01-APR-2008	06:31:33;	Bright;	37.0;	36;	50Alp UMa	; 1.80;	6300;occ;	74;	0;	31823
6;	3440.4;	01-APR-2008	06:39:36;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	31823
7;	3901.8;	01-APR-2008	06:47:17;	Bright;	37.0;	89;	5Alp Cep	; 2.45;	8000;occ;	74;	0;	31823
8;	4829.7;	01-APR-2008	07:02:45;	Dark	; 44.0;	61;	8Eps Peg	; 2.10;	3900;occ;	88;	0;	31823
9;	5105.8;	01-APR-2008	07:07:21;	Dark	; 39.0;	154;	22Bet Aqr	; 2.90;	5700;occ;	78;	0;	31823
10;	5259.9;	01-APR-2008	07:09:56;	Dark	; 40.0;	142;	49Del Cap	; 2.85;	8900;occ;	80;	0;	31823
11;	5595.9;	01-APR-2008	07:15:32;	Dark	; 37.0;	172;	Gam Gru	; 3.00;	13100;occ;	74;	0;	31823
12;	5868.5;	01-APR-2008	07:20:04;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	31823
13;	5994.8;	01-APR-2008	07:22:10;	Dark	; 38.5;	45;	Alp Pav	; 1.94;	26000;occ;	77;	0;	31823
14;	6445.8;	01-APR-2008	07:29:41;	Dark	; 38.5;	43;	Alp TrA	; 1.91;	4250;occ;	77;	0;	31823
15;	6557.4;	01-APR-2008	07:31:33;	Dark	; 40.0;	134;	Bet TrA	; 2.81;	6600;occ;	80;	0;	31823
16;	6715.3;	01-APR-2008	07:34:11;	Dark	; 44.5;	4;	Alp1Cen	; -0.01;	5800;occ;	89;	0;	31823
17;	6850.2;	01-APR-2008	07:36:26;	Dark	; 40.5;	12;	Alp1Cru	; 0.77;	30000;occ;	81;	0;	31823
18;	6937.4;	01-APR-2008	07:37:53;	Dark	; 41.5;	26;	Gam Cru	; 1.62;	2900;occ;	83;	0;	31823
19;	7054.0;	01-APR-2008	07:39:50;	Dark	; 39.0;	64;	Gam Cen	; 2.20;	10600;occ;	78;	0;	31823
20;	7208.5;	01-APR-2008	07:42:24;	Dark	; 43.5;	123;	Iot Cen	; 2.75;	10200;occ;	87;	0;	31823
21;	7498.5;	01-APR-2008	07:47:14;	Dark	; 45.5;	106;	9Bet Crv	; 2.65;	5600;occ;	91;	0;	31823
22;	7615.9;	01-APR-2008	07:49:12;	Dark	; 39.0;	100;	4Gam Crv	; 2.58;	13100;occ;	78;	0;	31823

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2;	2257.4;	01-APR-2008	08:00:29;	Bright;	35.0;	96;	68Del Leo	; 2.56;	9300;occ;	70;	0;	31824
3;	2666.0;	01-APR-2008	08:07:18;	Bright;	35.0;	174;	52Psi UMa	; 3.00;	4400;occ;	70;	0;	31824
4;	2846.6;	01-APR-2008	08:10:18;	Bright;	37.0;	87;	64Gam UMa	; 2.43;	11000;occ;	74;	0;	31824
5;	2957.7;	01-APR-2008	08:12:09;	Bright;	35.0;	36;	50Alp UMa	; 1.80;	6300;occ;	70;	0;	31824
6;	3440.4;	01-APR-2008	08:20:12;	Bright;	34.0;	49;	1Alp UMi	; 1.99;	6300;occ;	68;	0;	31824
7;	3901.9;	01-APR-2008	08:27:53;	Bright;	37.5;	89;	5Alp Cep	; 2.45;	8000;occ;	75;	0;	31824
8;	4829.9;	01-APR-2008	08:43:22;	Dark	; 45.5;	61;	8Eps Peg	; 2.10;	3900;occ;	91;	0;	31824
9;	5106.2;	01-APR-2008	08:47:58;	Dark	; 42.5;	154;	22Bet Aqr	; 2.90;	5700;occ;	85;	0;	31824
10;	5260.2;	01-APR-2008	08:50:32;	Dark	; 38.5;	142;	49Del Cap	; 2.85;	8900;occ;	77;	0;	31824
11;	5596.0;	01-APR-2008	08:56:08;	Dark	; 38.5;	172;	Gam Gru	; 3.00;	13100;occ;	77;	0;	31824
12;	5868.8;	01-APR-2008	09:00:40;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	31824
13;	5995.1;	01-APR-2008	09:02:47;	Dark	; 37.0;	45;	Alp Pav	; 1.94;	26000;occ;	74;	0;	31824
14;	6446.2;	01-APR-2008	09:10:18;	Dark	; 39.0;	43;	Alp TrA	; 1.91;	4250;occ;	78;	0;	31824
15;	6557.8;	01-APR-2008	09:12:09;	Dark	; 38.0;	134;	Bet TrA	; 2.81;	6600;occ;	76;	0;	31824
16;	6715.7;	01-APR-2008	09:14:47;	Dark	; 46.5;	4;	Alp1Cen	; -0.01;	5800;occ;	93;	0;	31824
17;	6850.4;	01-APR-2008	09:17:02;	Dark	; 41.5;	12;	Alp1Cru	; 0.77;	30000;occ;	83;	0;	31824
18;	6937.6;	01-APR-2008	09:18:29;	Dark	; 42.0;	26;	Gam Cru	; 1.62;	2900;occ;	84;	0;	31824
19;	7054.2;	01-APR-2008	09:20:26;	Dark	; 38.5;	64;	Gam Cen	; 2.20;	10600;occ;	77;	0;	31824
20;	7208.8;	01-APR-2008	09:23:00;	Dark	; 43.0;	123;	Iot Cen	; 2.75;	10200;occ;	86;	0;	31824
21;	7498.5;	01-APR-2008	09:27:50;	Dark	; 46.0;	106;	9Bet Crv	; 2.65;	5600;occ;	92;	0;	31824
22;	7615.8;	01-APR-2008	09:29:47;	Dark	; 42.0;	100;	4Gam Crv	; 2.58;	13100;occ;	84;	0;	31824

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2;	2257.4;	01-APR-2008	09:41:05;	Bright;	36.0;	96;	68Del Leo	; 2.56;	9300;occ;	72;	0;	31825
3;	2666.0;	01-APR-2008	09:47:53;	Bright;	36.5;	174;	52Psi UMa	; 3.00;	4400;occ;	73;	0;	31825
4;	2846.3;	01-APR-2008	09:50:54;	Bright;	36.0;	87;	64Gam UMa	; 2.43;	11000;occ;	72;	0;	31825
5;	2957.7;	01-APR-2008	09:52:45;	Bright;	37.0;	36;	50Alp UMa	; 1.80;	6300;occ;	74;	0;	31825
6;	3440.3;	01-APR-2008	10:00:48;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	31825
7;	3901.7;	01-APR-2008	10:08:29;	Bright;	35.0;	89;	5Alp Cep	; 2.45;	8000;occ;	70;	0;	31825
8;	4830.2;	01-APR-2008	10:23:58;	Dark	; 45.5;	61;	8Eps Peg	; 2.10;	3900;occ;	91;	0;	31825
9;	5106.5;	01-APR-2008	10:28:34;	Dark	; 42.0;	154;	22Bet Aqr	; 2.90;	5700;occ;	84;	0;	31825
10;	5260.5;	01-APR-2008	10:31:08;	Dark	; 41.0;	142;	49Del Cap	; 2.85;	8900;occ;	82;	0;	31825
11;	5596.2;	01-APR-2008	10:36:44;	Dark	; 37.0;	172;	Gam Gru	; 3.00;	13100;occ;	74;	0;	31825
12;	5869.2;	01-APR-2008	10:41:17;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	31825
13;	5995.5;	01-APR-2008	10:43:23;	Dark	; 37.0;	45;	Alp Pav	; 1.94;	26000;occ;	74;	0;	31825
14;	6446.5;	01-APR-2008	10:50:54;	Dark	; 37.5;	43;	Alp TrA	; 1.91;	4250;occ;	75;	0;	31825
15;	6558.3;	01-APR-2008	10:52:46;	Dark	; 37.5;	134;	Bet TrA	; 2.81;	6600;occ;	75;	0;	31825
16;	6716.2;	01-APR-2008	10:55:24;	Dark	; 52.0;	4;	Alp1Cen	; -0.01;	5800;occ;	104;	0;	31825
17;	6850.5;	01-APR-2008	10:57:38;	Dark	; 40.5;	12;	Alp1Cru	; 0.77;	30000;occ;	81;	0;	31825
18;	6937.8;	01-APR-2008	10:59:05;	Dark	; 41.0;	26;	Gam Cru	; 1.62;	2900;occ;	82;	0;	31825
19;	7054.5;	01-APR-2008	11:01:02;	Dark	; 38.0;	64;	Gam Cen	; 2.20;	10600;occ;	76;	0;	31825
20;	7209.3;	01-APR-2008	11:03:37;	Dark	; 41.5;	123;	Iot Cen	; 2.75;	10200;occ;	83;	0;	31825
21;	7498.7;	01-APR-2008	11:08:26;	Dark	; 47.0;	106;	9Bet Crv	; 2.65;	5600;occ;	94;	0;	31825

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22; 7615.9; 01-APR-2008 11:10:23; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;31825
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1; 2160.1; 01-APR-2008 11:20:03; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;31826
2; 2257.3; 01-APR-2008 11:21:41; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;31826
3; 2665.9; 01-APR-2008 11:28:29; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;31826
4; 2846.0; 01-APR-2008 11:31:29; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;31826
5; 2957.6; 01-APR-2008 11:33:21; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31826
6; 3440.5; 01-APR-2008 11:41:24; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;31826
7; 3901.7; 01-APR-2008 11:49:05; Bright; 54.0; 89; 5Alp Cep ; 2.45; 8000;occ; 108; 0;31826
8; 4830.4; 01-APR-2008 12:04:34; Dark ; 44.5; 61; 8Eps Peg ; 2.10; 3900;occ; 89; 0;31826
9; 5106.9; 01-APR-2008 12:09:10; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;31826
10; 5260.8; 01-APR-2008 12:11:44; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;31826
11; 5596.6; 01-APR-2008 12:17:20; Dark ; 35.5; 172; Gam Gru ; 3.00; 13100;occ; 71; 0;31826
12; 5869.6; 01-APR-2008 12:21:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31826
13; 6447.0; 01-APR-2008 12:31:30; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;31826
14; 6558.7; 01-APR-2008 12:33:22; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;31826
15; 6716.6; 01-APR-2008 12:36:00; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;31826
16; 6850.8; 01-APR-2008 12:38:14; Dark ; 37.5; 12; Alp1Cru ; 0.77; 30000;occ; 75; 0;31826
17; 6938.1; 01-APR-2008 12:39:41; Dark ; 48.0; 26; Gam Cru ; 1.62; 2900;occ; 96; 0;31826
18; 7054.8; 01-APR-2008 12:41:38; Dark ; 36.0; 64; Gam Cen ; 2.20; 10600;occ; 72; 0;31826
19; 7209.5; 01-APR-2008 12:44:13; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;31826
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2; 2159.9; 01-APR-2008 13:00:39; Bright; 44.0; 62; 94Bet Leo ; 2.14; 9700;occ; 88; 0;31827
3; 2257.3; 01-APR-2008 13:02:17; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31827
4; 2665.9; 01-APR-2008 13:09:05; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31827
5; 2845.9; 01-APR-2008 13:12:05; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;31827
6; 2957.7; 01-APR-2008 13:13:57; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31827
7; 3440.4; 01-APR-2008 13:22:00; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;31827
8; 3901.6; 01-APR-2008 13:29:41; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;31827
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 3; 2664.4; 04-APR-2008 06:32:25; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;31866  
 4; 2837.9; 04-APR-2008 06:35:18; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31866  
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 6; 3321.6; 04-APR-2008 06:43:22; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;31866  
 7; 3441.0; 04-APR-2008 06:45:21; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31866  
 8; 3898.9; 04-APR-2008 06:52:59; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;31866  
 9; 4842.3; 04-APR-2008 07:08:43; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;31866  
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 11; 5122.9; 04-APR-2008 07:13:23; Dark ; 45.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 91; 0;31866  
 12; 5274.9; 04-APR-2008 07:15:55; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31866  
 13; 5607.4; 04-APR-2008 07:21:28; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31866  
 14; 5886.2; 04-APR-2008 07:26:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31866  
 15; 6012.3; 04-APR-2008 07:28:13; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;31866  
 16; 6463.9; 04-APR-2008 07:35:44; Dark ; 43.0; 43; Alp TrA ; 1.91; 4250;occ; 86; 0;31866  
 17; 6579.1; 04-APR-2008 07:37:39; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;31866  
 18; 6734.7; 04-APR-2008 07:40:15; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;31866  
 19; 6859.7; 04-APR-2008 07:42:20; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;31866  
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 21; 7066.7; 04-APR-2008 07:45:47; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;31866  
 22; 7224.3; 04-APR-2008 07:48:25; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;31866  
 23; 7506.8; 04-APR-2008 07:53:07; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31866  
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 6; 3321.3; 04-APR-2008 08:23:58; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;31867  
 7; 3440.9; 04-APR-2008 08:25:57; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;31867  
 8; 3898.8; 04-APR-2008 08:33:35; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;31867  
 9; 4842.5; 04-APR-2008 08:49:19; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;31867

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13; 5607.4; 04-APR-2008 09:02:04; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;31867
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15; 6012.6; 04-APR-2008 09:08:49; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31867
16; 6464.3; 04-APR-2008 09:16:21; Dark ; 50.5; 43; Alp TrA ; 1.91; 4250;occ; 101; 0;31867
17; 6579.5; 04-APR-2008 09:18:16; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31867
18; 6735.1; 04-APR-2008 09:20:51; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;31867
19; 6859.8; 04-APR-2008 09:22:56; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;31867
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21; 7067.0; 04-APR-2008 09:26:23; Dark ; 37.5; 64; Gam Cen ; 2.20; 10600;occ; 75; 0;31867
22; 7224.5; 04-APR-2008 09:29:01; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;31867
23; 7506.9; 04-APR-2008 09:33:43; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;31867
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3; 2664.4; 04-APR-2008 09:53:37; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31868
4; 2837.5; 04-APR-2008 09:56:30; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;31868
5; 2956.0; 04-APR-2008 09:58:28; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;31868
6; 3320.9; 04-APR-2008 10:04:33; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;31868
7; 3440.9; 04-APR-2008 10:06:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;31868
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9; 4842.7; 04-APR-2008 10:29:55; Dark ; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;31868
10; 4992.0; 04-APR-2008 10:32:24; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;31868
11; 5123.7; 04-APR-2008 10:34:36; Dark ; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;31868
12; 5275.7; 04-APR-2008 10:37:08; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;31868
13; 5607.8; 04-APR-2008 10:42:40; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31868
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16; 6464.6; 04-APR-2008 10:56:57; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;31868
17; 6580.3; 04-APR-2008 10:58:52; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;31868
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19; 6860.0; 04-APR-2008 11:03:32; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;31868
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22; 7224.8; 04-APR-2008 11:09:37; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0;31868
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4; 2156.3; 04-APR-2008 23:09:56; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;31876
5; 2258.7; 04-APR-2008 23:11:38; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31876
6; 2664.1; 04-APR-2008 23:18:24; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;31876
7; 2836.0; 04-APR-2008 23:21:16; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;31876
8; 2955.7; 04-APR-2008 23:23:15; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31876
9; 3318.1; 04-APR-2008 23:29:18; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;31876
10; 3440.9; 04-APR-2008 23:31:20; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31876
11; 3897.9; 04-APR-2008 23:38:57; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;31876
12; 4845.1; 04-APR-2008 23:54:45; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;31876
13; 4994.3; 04-APR-2008 23:57:14; Dark ; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;31876
14; 5126.9; 04-APR-2008 23:59:26; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;31876
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16; 5890.4; 05-APR-2008 00:12:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31876
17; 6016.2; 05-APR-2008 00:14:16; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31876
18; 6467.8; 05-APR-2008 00:21:47; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;31876
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21; 6861.5; 05-APR-2008 00:28:21; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;31876
22; 6950.6; 05-APR-2008 00:29:50; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;31876
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2; 2258.5; 04-APR-2008 11:27:27; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;31869

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 6; 3320.6; 04-APR-2008 11:45:09; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;31869  
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 3; 2258.5; 04-APR-2008 13:08:02; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31870  
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 5; 2837.2; 04-APR-2008 13:17:41; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31870  
 6; 2956.0; 04-APR-2008 13:19:40; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;31870  
 7; 3320.3; 04-APR-2008 13:25:44; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;31870  
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 22; 7067.8; 04-APR-2008 14:28:12; Dark ; 36.5; 64; Gam Cen ; 2.20; 10600;occ; 73; 0;31870  
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 6; 2837.2; 04-APR-2008 14:58:17; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31871  
 7; 2956.0; 04-APR-2008 15:00:16; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31871  
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 14; 5276.8; 04-APR-2008 15:38:57; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;31871  
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 21; 6860.7; 04-APR-2008 16:05:20; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;31871



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5; 2258.6; 04-APR-2008 16:29:14; Bright; 34.0; 96; 68Del Leo ; 2.56; 9300;occ; 68; 0;31872
6; 2664.2; 04-APR-2008 16:36:00; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;31872
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13; 4993.3; 04-APR-2008 17:14:49; Dark ; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;31872
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3; 1471.7; 04-APR-2008 17:56:44; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;31873
4; 1586.7; 04-APR-2008 17:58:38; Dark ; 37.5; 100; 4Gam Crv ; 2.58; 13100;occ; 75; 0;31873
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8; 2836.7; 04-APR-2008 18:19:28; Bright; 54.0; 87; 64Gam UMa ; 2.43; 11000;occ; 108; 0;31873
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13; 4844.3; 04-APR-2008 18:52:56; Dark ; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;31873
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22; 6737.7; 04-APR-2008 19:24:30; Dark ; 46.5; 4; Alp1Cen ; -0.01; 5800;occ; 93; 0;31873
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4; 1586.8; 04-APR-2008 19:39:15; Dark ; 42.0; 100; 4Gam Crv ; 2.58; 13100;occ; 84; 0;31874
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6; 2258.6; 04-APR-2008 19:50:26; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31874
7; 2664.3; 04-APR-2008 19:57:12; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;31874
8; 2836.4; 04-APR-2008 20:00:04; Bright; 54.0; 87; 64Gam UMa ; 2.43; 11000;occ; 108; 0;31874
9; 2955.7; 04-APR-2008 20:02:03; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31874
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 19; 6015.5; 04-APR-2008 20:53:03; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31874  
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 21; 6583.0; 04-APR-2008 21:02:31; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31874  
 22; 6738.1; 04-APR-2008 21:05:06; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;31874  
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 24; 6950.2; 04-APR-2008 21:08:38; Dark ; 45.0; 26; Gam Cru ; 1.62; 2900;occ; 90; 0;31874  
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 9; 2836.1; 04-APR-2008 21:40:40; Bright; 54.0; 87; 64Gam UMa ; 2.43; 11000;occ; 108; 0;31875  
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 22; 6583.5; 04-APR-2008 22:43:07; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;31875  
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 25; 6950.3; 04-APR-2008 22:49:14; Dark ; 47.0; 26; Gam Cru ; 1.62; 2900;occ; 94; 0;31875  
 26; 7069.0; 04-APR-2008 22:51:13; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;31875  
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 3; 2156.3; 05-APR-2008 00:50:32; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;31877  
 4; 2258.6; 05-APR-2008 00:52:14; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31877  
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 23; 7227.9; 05-APR-2008 02:15:03; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;31877  
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5; 2664.2; 05-APR-2008 02:39:35; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31878
6; 2835.6; 05-APR-2008 02:42:27; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31878
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8; 3317.5; 05-APR-2008 02:50:29; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;31878
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 21; 6745.9; 06-APR-2008 03:16:00; Dark ; 49.5; 4; Alp1Cen ;-0.01; 5800;occ; 99; 0;31892  
 22; 6865.0; 06-APR-2008 03:17:59; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;31892  
 23; 6954.6; 06-APR-2008 03:19:29; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;31892  
 24; 7074.0; 06-APR-2008 03:21:28; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;31892  
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 5; 2955.6; 06-APR-2008 05:34:02; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;31894  
 6; 3441.2; 06-APR-2008 05:42:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;31894  
 7; 3859.6; 06-APR-2008 05:49:06; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;31894  
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 9; 4851.0; 06-APR-2008 06:05:37; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;31894  
 10; 4999.9; 06-APR-2008 06:08:06; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;31894  
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 13; 5441.3; 06-APR-2008 06:15:27; Dark ; 41.0; 18; 24Alp PsA ; 1.17; 9700;occ; 82; 0;31894  
 14; 5615.6; 06-APR-2008 06:18:22; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;31894  
 15; 5754.0; 06-APR-2008 06:20:40; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;31894  
 16; 5898.5; 06-APR-2008 06:23:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31894  
 17; 6024.3; 06-APR-2008 06:25:10; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;31894  
 18; 6475.6; 06-APR-2008 06:32:42; Dark ; 44.5; 43; Alp TrA ; 1.91; 4250;occ; 89; 0;31894  
 19; 6593.1; 06-APR-2008 06:34:39; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31894  
 20; 6746.9; 06-APR-2008 06:37:13; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;31894  
 21; 6865.4; 06-APR-2008 06:39:12; Dark ; 38.0; 12; Alp1Cru ; 0.77; 30000;occ; 76; 0;31894  
 22; 6955.2; 06-APR-2008 06:40:41; Dark ; 42.5; 26; Gam Cru ; 1.62; 2900;occ; 85; 0;31894  
 23; 7074.6; 06-APR-2008 06:42:41; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;31894  
 24; 7511.9; 06-APR-2008 06:49:58; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31894  
 25; 7625.8; 06-APR-2008 06:51:52; Dark ; 38.5; 100; 4Gam Crv ; 2.58; 13100;occ; 77; 0;31894

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 4; 2832.8; 06-APR-2008 07:12:35; Bright; 51.0; 87; 64Gam UMa ; 2.43; 11000;occ; 102; 0;31895  
 5; 2955.6; 06-APR-2008 07:14:38; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;31895  
 6; 3441.3; 06-APR-2008 07:22:43; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31895  
 7; 3860.0; 06-APR-2008 07:29:42; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;31895  
 8; 3939.4; 06-APR-2008 07:31:02; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;31895  
 9; 4851.3; 06-APR-2008 07:46:13; Dark ; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;31895  
 10; 5000.2; 06-APR-2008 07:48:42; Dark ; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;31895  
 11; 5135.5; 06-APR-2008 07:50:58; Dark ; 45.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 90; 0;31895  
 12; 5286.1; 06-APR-2008 07:53:28; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;31895  
 13; 5441.5; 06-APR-2008 07:56:04; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;31895  
 14; 5615.9; 06-APR-2008 07:58:58; Dark ; 36.0; 172; Gam Gru ; 3.00; 13100;occ; 72; 0;31895  
 15; 5754.1; 06-APR-2008 08:01:16; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;31895  
 16; 5898.9; 06-APR-2008 08:03:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31895  
 17; 6024.7; 06-APR-2008 08:05:47; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31895  
 18; 6476.0; 06-APR-2008 08:13:18; Dark ; 46.5; 43; Alp TrA ; 1.91; 4250;occ; 93; 0;31895  
 19; 6593.6; 06-APR-2008 08:15:16; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31895  
 20; 6747.3; 06-APR-2008 08:17:49; Dark ; 54.0; 4; Alp1Cen ;-0.01; 5800;occ; 108; 0;31895  
 21; 6865.6; 06-APR-2008 08:19:48; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;31895  
 22; 6955.3; 06-APR-2008 08:21:17; Dark ; 41.5; 26; Gam Cru ; 1.62; 2900;occ; 83; 0;31895  
 23; 7074.8; 06-APR-2008 08:23:17; Dark ; 37.5; 64; Gam Cen ; 2.20; 10600;occ; 75; 0;31895  
 24; 7512.1; 06-APR-2008 08:30:34; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;31895  
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 2; 2260.0; 06-APR-2008 08:43:38; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31896  
 3; 2664.2; 06-APR-2008 08:50:22; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;31896



4; 2832.7; 06-APR-2008 08:53:11; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;31896  
5; 2955.5; 06-APR-2008 08:55:14; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;31896  
6; 3441.2; 06-APR-2008 09:03:19; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31896  
7; 3860.1; 06-APR-2008 09:10:18; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;31896  
8; 3939.6; 06-APR-2008 09:11:38; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;31896  
9; 4851.6; 06-APR-2008 09:26:50; Dark ; 44.5; 61; 8Eps Peg ; 2.10; 3900;occ; 89; 0;31896  
10; 5000.4; 06-APR-2008 09:29:18; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;31896  
11; 5136.0; 06-APR-2008 09:31:34; Dark ; 46.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 92; 0;31896  
12; 5286.4; 06-APR-2008 09:34:04; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;31896  
13; 5441.4; 06-APR-2008 09:36:39; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;31896  
14; 5616.2; 06-APR-2008 09:39:34; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;31896  
15; 5754.3; 06-APR-2008 09:41:52; Dark ; 38.0; 31; Alp Gru ; 1.73; 15200;occ; 76; 0;31896  
16; 5899.3; 06-APR-2008 09:44:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31896  
17; 6025.1; 06-APR-2008 09:46:23; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31896  
18; 6476.3; 06-APR-2008 09:53:54; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;31896  
19; 6594.1; 06-APR-2008 09:55:52; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;31896  
20; 6747.6; 06-APR-2008 09:58:26; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;31896  
21; 6865.8; 06-APR-2008 10:00:24; Dark ; 47.0; 12; Alp1Cru ; 0.77; 30000;occ; 94; 0;31896  
22; 6955.5; 06-APR-2008 10:01:53; Dark ; 43.5; 26; Gam Cru ; 1.62; 2900;occ; 87; 0;31896  
23; 7075.1; 06-APR-2008 10:03:53; Dark ; 37.0; 64; Gam Cen ; 2.20; 10600;occ; 74; 0;31896  
24; 7512.2; 06-APR-2008 10:11:10; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;31896  
25; 7625.9; 06-APR-2008 10:13:04; Dark ; 39.5; 100; 4Gam Crv ; 2.58; 13100;occ; 79; 0;31896

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3; 2664.3; 06-APR-2008 10:30:58; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31897  
4; 2832.6; 06-APR-2008 10:33:47; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;31897  
5; 2955.5; 06-APR-2008 10:35:49; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;31897  
6; 3441.2; 06-APR-2008 10:43:55; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31897  
7; 3860.3; 06-APR-2008 10:50:54; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;31897  
8; 3939.8; 06-APR-2008 10:52:14; Bright; 32.5; 68; 18Alp Cas ; 2.22; 4500;occ; 65; 0;31897  
9; 4851.9; 06-APR-2008 11:07:26; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;31897  
10; 5000.6; 06-APR-2008 11:09:55; Dark ; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;31897  
11; 5136.4; 06-APR-2008 11:12:10; Dark ; 45.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 91; 0;31897  
12; 5286.8; 06-APR-2008 11:14:41; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;31897  
13; 5441.5; 06-APR-2008 11:17:15; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;31897  
14; 5616.5; 06-APR-2008 11:20:10; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;31897  
15; 5754.5; 06-APR-2008 11:22:28; Dark ; 37.5; 31; Alp Gru ; 1.73; 15200;occ; 75; 0;31897  
16; 5899.7; 06-APR-2008 11:24:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31897  
17; 6025.5; 06-APR-2008 11:26:59; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31897  
18; 6476.7; 06-APR-2008 11:34:31; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;31897  
19; 6594.5; 06-APR-2008 11:36:28; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31897  
20; 6748.1; 06-APR-2008 11:39:02; Dark ; 54.5; 4; Alp1Cen ; -0.01; 5800;occ; 109; 0;31897  
21; 6865.9; 06-APR-2008 11:41:00; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;31897  
22; 6955.7; 06-APR-2008 11:42:30; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;31897  
23; 7075.4; 06-APR-2008 11:44:29; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;31897  
24; 7512.3; 06-APR-2008 11:51:46; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;31897  
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3; 2260.0; 06-APR-2008 12:04:50; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31898  
4; 2664.3; 06-APR-2008 12:11:34; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;31898  
5; 2832.4; 06-APR-2008 12:14:22; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31898  
6; 2955.5; 06-APR-2008 12:16:25; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;31898  
7; 3441.3; 06-APR-2008 12:24:31; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;31898  
8; 3860.5; 06-APR-2008 12:31:30; Bright; 33.5; 76; 27Gam Cas ; 2.30; 30000;occ; 67; 0;31898  
9; 3940.1; 06-APR-2008 12:32:50; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;31898  
10; 4852.2; 06-APR-2008 12:48:02; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;31898  
11; 5001.0; 06-APR-2008 12:50:31; Dark ; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;31898  
12; 5136.8; 06-APR-2008 12:52:47; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;31898  
13; 5287.2; 06-APR-2008 12:55:17; Dark ; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;31898  
14; 5441.7; 06-APR-2008 12:57:51; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;31898  
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16; 5754.8; 06-APR-2008 13:03:05; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;31898  
17; 5900.2; 06-APR-2008 13:05:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31898  
18; 6025.9; 06-APR-2008 13:07:36; Dark ; 37.0; 45; Alp Pav ; 1.94; 26000;occ; 74; 0;31898  
19; 6477.2; 06-APR-2008 13:15:07; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;31898

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22; 6866.1; 06-APR-2008 13:21:36; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;31898
23; 6956.0; 06-APR-2008 13:23:06; Dark ; 43.5; 26; Gam Cru ; 1.62; 2900;occ; 87; 0;31898
24; 7075.6; 06-APR-2008 13:25:05; Dark ; 36.5; 64; Gam Cen ; 2.20; 10600;occ; 73; 0;31898
25; 7512.6; 06-APR-2008 13:32:22; Dark ; 42.0; 106; 9Bet Crv ; 2.65; 5600;occ; 84; 0;31898
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13; 5137.4; 06-APR-2008 14:33:23; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;31899
14; 5287.7; 06-APR-2008 14:35:53; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;31899
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16; 5617.3; 06-APR-2008 14:41:23; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;31899
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22; 6749.0; 06-APR-2008 15:00:15; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;31899
23; 6866.3; 06-APR-2008 15:02:12; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;31899
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 3; 2155.6; 06-APR-2008 23:47:17; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;31905
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 5; 2664.3; 06-APR-2008 23:55:46; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31905
 6; 2831.3; 06-APR-2008 23:58:33; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;31905
 7; 2955.5; 07-APR-2008 00:00:37; Bright; 33.0; 36; 50Alp UMa ; 1.80; 6300;occ; 66; 0;31905
 8; 3441.4; 07-APR-2008 00:08:43; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;31905
 9; 3862.4; 07-APR-2008 00:15:44; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;31905
10; 3942.0; 07-APR-2008 00:17:03; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;31905

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 12; 5003.2; 07-APR-2008 00:34:44; Dark ; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;31905  
 13; 5290.1; 07-APR-2008 00:39:31; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;31905  
 14; 5442.3; 07-APR-2008 00:42:04; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;31905  
 15; 5756.3; 07-APR-2008 00:47:18; Dark ; 38.0; 31; Alp Gru ; 1.73; 15200;occ; 76; 0;31905  
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 17; 6029.1; 07-APR-2008 00:51:50; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;31905  
 18; 6480.0; 07-APR-2008 00:59:21; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;31905  
 19; 6598.4; 07-APR-2008 01:01:20; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31905  
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 22; 6957.5; 07-APR-2008 01:07:19; Dark ; 42.5; 26; Gam Cru ; 1.62; 2900;occ; 85; 0;31905  
 23; 7077.4; 07-APR-2008 01:09:19; Dark ; 37.0; 64; Gam Cen ; 2.20; 10600;occ; 74; 0;31905

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 13; 5290.6; 07-APR-2008 02:20:08; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31906  
 14; 5442.5; 07-APR-2008 02:22:40; Dark ; 41.0; 18; 24Alp PsA ; 1.17; 9700;occ; 82; 0;31906  
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 16; 5903.8; 07-APR-2008 02:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31906  
 17; 6029.6; 07-APR-2008 02:32:27; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31906  
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 19; 6599.0; 07-APR-2008 02:41:56; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;31906  
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 12; 5291.1; 07-APR-2008 04:00:44; Dark ; 39.0; 142; 49Del Cap ; 2.85; 8900;occ; 78; 0;31907  
 13; 5442.8; 07-APR-2008 04:03:16; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;31907  
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 19; 6599.5; 07-APR-2008 04:22:33; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31907  
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 22; 6958.1; 07-APR-2008 04:28:31; Dark ; 48.5; 26; Gam Cru ; 1.62; 2900;occ; 97; 0;31907  
 23; 7078.2; 07-APR-2008 04:30:31; Dark ; 36.0; 64; Gam Cen ; 2.20; 10600;occ; 72; 0;31907  
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4; 2664.5; 07-APR-2008 04:57:33; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;31908  
5; 2831.0; 07-APR-2008 05:00:20; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;31908  
6; 2955.5; 07-APR-2008 05:02:24; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;31908  
7; 3441.4; 07-APR-2008 05:10:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;31908  
8; 3840.8; 07-APR-2008 05:17:10; Bright; 29.0; 110; 37Del Cas ; 2.68; 8900;occ; 58; 0;31908  
9; 3926.0; 07-APR-2008 05:18:35; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;31908  
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11; 5004.2; 07-APR-2008 05:36:33; Dark ; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;31908  
12; 5291.5; 07-APR-2008 05:41:20; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;31908  
13; 5442.8; 07-APR-2008 05:43:52; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;31908  
14; 5620.2; 07-APR-2008 05:46:49; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;31908  
15; 5757.2; 07-APR-2008 05:49:06; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;31908  
16; 5904.9; 07-APR-2008 05:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31908  
17; 6030.5; 07-APR-2008 05:53:39; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;31908  
18; 6481.5; 07-APR-2008 06:01:10; Dark ; 37.5; 43; Alp TrA ; 1.91; 4250;occ; 75; 0;31908  
19; 6600.1; 07-APR-2008 06:03:09; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;31908  
20; 6752.8; 07-APR-2008 06:05:42; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;31908  
21; 6868.2; 07-APR-2008 06:07:37; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;31908  
22; 6958.4; 07-APR-2008 06:09:07; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;31908  
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24; 7514.5; 07-APR-2008 06:18:23; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;31908  
25; 7627.6; 07-APR-2008 06:20:17; Dark ; 39.0; 100; 4Gam Crv ; 2.58; 13100;occ; 78; 0;31908

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13; 5620.5; 07-APR-2008 07:27:25; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31909  
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28; 8866.6; 07-APR-2008 08:21:32; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31909  
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42;12636.8; 07-APR-2008 09:24:22; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31909  
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14; 1592.8; 07-APR-2008 21:25:41; Dark ; 39.0; 100; 4Gam Crv ; 2.58; 13100;occ; 78; 0;31918
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16; 2664.7; 07-APR-2008 23:24:09; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;31919  
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8; 721.3; 08-APR-2008 00:32:21; Dark ; 53.5; 4; Alp1Cen ;-0.01; 5800;occ; 107; 0;31920  
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8; 721.7; 08-APR-2008 02:12:58; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;31921  
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 8; 3928.7; 08-APR-2008 08:08:12; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;31924  
 9; 4459.4; 08-APR-2008 08:17:03; Bright; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;31924  
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 12; 5444.8; 08-APR-2008 08:33:29; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;31924  
 13; 5625.5; 08-APR-2008 08:36:29; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;31924  
 14; 5760.9; 08-APR-2008 08:38:45; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;31924  
 15; 5912.3; 08-APR-2008 08:41:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31924  
 16; 6037.8; 08-APR-2008 08:43:22; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31924  
 17; 6488.1; 08-APR-2008 08:50:52; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;31924  
 18; 6607.7; 08-APR-2008 08:52:52; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;31924  
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 12; 5626.0; 08-APR-2008 10:17:06; Dark ; 39.5; 172; Gam Gru ; 3.00; 13100;occ; 79; 0;31925  
 13; 5761.1; 08-APR-2008 10:19:21; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;31925  
 14; 5912.7; 08-APR-2008 10:21:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31925  
 15; 6038.3; 08-APR-2008 10:23:58; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;31925  
 16; 6488.4; 08-APR-2008 10:31:28; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;31925  
 17; 6608.2; 08-APR-2008 10:33:28; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31925  
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 19; 6871.3; 08-APR-2008 10:37:51; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;31925  
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 21; 7082.7; 08-APR-2008 10:41:22; Dark ; 37.0; 64; Gam Cen ; 2.20; 10600;occ; 74; 0;31925  
 22; 7243.8; 08-APR-2008 10:44:03; Dark ; 28.0; 123; Iot Cen ; 2.75; 10200;occ; 56; 0;31925  
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 4; 2828.5; 08-APR-2008 11:11:04; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;31926  
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 7; 3846.0; 08-APR-2008 11:28:02; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;31926  
 8; 3928.9; 08-APR-2008 11:29:24; Bright; 32.5; 74; 11Bet Cas ; 2.27; 6600;occ; 65; 0;31926  
 9; 4459.5; 08-APR-2008 11:38:15; Bright; 34.0; 164; 44Eta Peg ; 2.95; 5400;occ; 68; 0;31926  
 10; 5010.2; 08-APR-2008 11:47:26; Dark ; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;31926  
 11; 5299.1; 08-APR-2008 11:52:15; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31926  
 12; 5445.0; 08-APR-2008 11:54:41; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;31926  
 13; 5626.2; 08-APR-2008 11:57:42; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;31926  
 14; 5761.3; 08-APR-2008 11:59:57; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;31926  
 15; 5913.2; 08-APR-2008 12:02:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31926  
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 17; 6608.7; 08-APR-2008 12:14:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;31926



18; 6760.2; 08-APR-2008 12:16:36; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;31926  
 19; 6871.4; 08-APR-2008 12:18:27; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;31926  
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 22; 7244.2; 08-APR-2008 12:24:40; Dark ; 28.0; 123; Iot Cen ; 2.75; 10200;occ; 56; 0;31926  
 23; 7517.7; 08-APR-2008 12:29:13; Dark ; 40.0; 106; 9Bet Crv ; 2.65; 5600;occ; 80; 0;31926  
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 3; 2262.6; 08-APR-2008 12:42:14; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31927  
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 7; 3441.6; 08-APR-2008 13:01:53; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;31927  
 8; 3846.5; 08-APR-2008 13:08:38; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;31927  
 9; 3929.3; 08-APR-2008 13:10:01; Bright; 35.5; 74; 11Bet Cas ; 2.27; 6600;occ; 71; 0;31927  
 10; 4459.7; 08-APR-2008 13:18:51; Bright; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;31927  
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 12; 5299.5; 08-APR-2008 13:32:51; Dark ; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;31927  
 13; 5445.2; 08-APR-2008 13:35:17; Dark ; 39.0; 18; 24Alp PsA ; 1.17; 9700;occ; 78; 0;31927  
 14; 5626.8; 08-APR-2008 13:38:18; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;31927  
 15; 5761.6; 08-APR-2008 13:40:33; Dark ; 37.5; 31; Alp Gru ; 1.73; 15200;occ; 75; 0;31927  
 16; 5913.7; 08-APR-2008 13:43:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;31927  
 17; 6489.4; 08-APR-2008 13:52:41; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;31927  
 18; 6609.2; 08-APR-2008 13:54:41; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31927  
 19; 6760.7; 08-APR-2008 13:57:12; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;31927  
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 21; 6962.5; 08-APR-2008 14:00:34; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;31927  
 22; 7083.4; 08-APR-2008 14:02:35; Dark ; 37.5; 64; Gam Cen ; 2.20; 10600;occ; 75; 0;31927  
 23; 7244.4; 08-APR-2008 14:05:16; Dark ; 35.0; 123; Iot Cen ; 2.75; 10200;occ; 70; 0;31927  
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2; 1051.8; 09-APR-2008 20:13:26; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;31946
3; 1214.2; 09-APR-2008 20:16:08; Dark ; 40.0; 123; Tot Cen ; 2.75; 10200;occ; 80; 0;31946
4; 1485.2; 09-APR-2008 20:20:39; Dark ; 41.0; 106; 9Bet Crv ; 2.65; 5600;occ; 82; 0;31946
5; 1597.1; 09-APR-2008 20:22:31; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;31946
6; 2155.6; 09-APR-2008 20:31:50; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;31946
7; 2264.7; 09-APR-2008 20:33:39; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;31946
8; 2666.0; 09-APR-2008 20:40:20; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;31946
9; 2826.0; 09-APR-2008 20:43:00; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;31946

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 11; 3441.8; 09-APR-2008 20:53:16; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;31946  
 12; 3852.1; 09-APR-2008 21:00:06; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;31946  
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 14; 4462.6; 09-APR-2008 21:10:17; Bright; 34.0; 164; 44Eta Peg ; 2.95; 5400;occ; 68; 0;31946  
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 16; 5308.2; 09-APR-2008 21:24:22; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;31946

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 6; 12.3; 09-APR-2008 21:36:42; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31947  
 7; 461.3; 09-APR-2008 21:44:11; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;31947  
 8; 582.3; 09-APR-2008 21:46:12; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;31947  
 9; 732.6; 09-APR-2008 21:48:43; Dark ; 54.0; 4; Alp1Cen ; -0.01; 5800;occ; 108; 0;31947  
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 16; 2155.7; 09-APR-2008 22:12:26; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;31947  
 17; 2264.8; 09-APR-2008 22:14:15; Bright; 46.0; 96; 68Del Leo ; 2.56; 9300;occ; 92; 0;31947  
 18; 2666.1; 09-APR-2008 22:20:56; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;31947  
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 22; 3852.2; 09-APR-2008 22:40:42; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;31947  
 23; 3932.6; 09-APR-2008 22:42:03; Bright; 33.0; 74; 11Bet Cas ; 2.27; 6600;occ; 66; 0;31947  
 24; 4462.8; 09-APR-2008 22:50:53; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;31947  
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 6; 12.7; 09-APR-2008 23:17:19; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31948  
 7; 461.7; 09-APR-2008 23:24:47; Dark ; 37.0; 43; Alp TrA ; 1.91; 4250;occ; 74; 0;31948  
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 12; 1052.4; 09-APR-2008 23:34:38; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;31948  
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 17; 2265.0; 09-APR-2008 23:54:51; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31948  
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 23; 3932.8; 10-APR-2008 00:22:39; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;31948  
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 11; 458.0; 09-APR-2008 08:19:21; Dark ; 43.0; 43; Alp TrA ; 1.91; 4250;occ; 86; 0;31939  
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 13; 729.3; 09-APR-2008 08:23:52; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;31939  
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 4; 2826.9; 09-APR-2008 08:58:49; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;31939  
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 7; 3849.9; 09-APR-2008 09:15:53; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;31939  
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 9; 4461.6; 09-APR-2008 09:26:04; Bright; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;31939  
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 12; 5446.8; 09-APR-2008 09:42:29; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;31939  
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 23; 7248.3; 09-APR-2008 11:53:07; Dark ; 40.5; 123; Tot Cen ; 2.75; 10200;occ; 81; 0;31940  
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4;	2665.7;	09-APR-2008	12:17:20;	Bright;	35.5;	174;	52Psi UMa	;	3.00;	4400;occ;	71;	0;	31941	
5;	2826.6;	09-APR-2008	12:20:01;	Bright;	35.5;	87;	64Gam UMa	;	2.43;	11000;occ;	71;	0;	31941	
6;	2955.9;	09-APR-2008	12:22:10;	Bright;	38.5;	36;	50Alp UMa	;	1.80;	6300;occ;	77;	0;	31941	
7;	3441.8;	09-APR-2008	12:30:16;	Bright;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;	31941	
8;	3850.6;	09-APR-2008	12:37:05;	Bright;	33.5;	110;	37Del Cas	;	2.68;	8900;occ;	67;	0;	31941	
9;	3931.7;	09-APR-2008	12:38:26;	Bright;	35.0;	74;	11Bet Cas	;	2.27;	6600;occ;	70;	0;	31941	
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12;	5305.9;	09-APR-2008	13:01:20;	Dark	;	41.0;	142;	49Del Cap	;	2.85;	8900;occ;	82;	0;	31941
13;	5447.1;	09-APR-2008	13:03:41;	Dark	;	43.0;	18;	24Alp PsA	;	1.17;	9700;occ;	86;	0;	31941
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13; 5768.9; 10-APR-2008 12:37:26; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;31955
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 5; 2266.2; 10-APR-2008 16:40:51; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;31958  
 6; 2666.7; 10-APR-2008 16:47:32; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;31958  
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 12; 4464.6; 10-APR-2008 17:17:30; Bright; 34.0; 164; 44Eta Peg ; 2.95; 5400;occ; 68; 0;31958  
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8; 596.2; 11-APR-2008 22:23:48; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31976
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 17; 5957.5; 14-APR-2008 13:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32013  
 18; 6081.7; 14-APR-2008 13:57:22; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;32013  
 19; 6524.7; 14-APR-2008 14:04:45; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;32013  
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 21; 6794.6; 14-APR-2008 14:09:15; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;32013  
 22; 6927.3; 14-APR-2008 14:11:28; Dark ; 37.5; 20; Bet Cru ; 1.25; 30000;occ; 75; 0;32013  
 23; 7103.6; 14-APR-2008 14:14:24; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;32013  
 24; 7269.8; 14-APR-2008 14:17:10; Dark ; 38.5; 123; Iot Cen ; 2.75; 10200;occ; 77; 0;32013  
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 5; 2275.2; 14-APR-2008 14:34:32; Bright; 34.0; 96; 68Del Leo ; 2.56; 9300;occ; 68; 0;32014  
 6; 2672.4; 14-APR-2008 14:41:09; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;32014  
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 13; 5043.6; 14-APR-2008 15:20:40; Dark ; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;32014  
 14; 5343.2; 14-APR-2008 15:25:39; Dark ; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;32014  
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 16; 5661.8; 14-APR-2008 15:30:58; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;32014  
 17; 5787.0; 14-APR-2008 15:33:03; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;32014  
 18; 5958.1; 14-APR-2008 15:35:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32014  
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 20; 6525.2; 14-APR-2008 15:45:21; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;32014  
 21; 6650.3; 14-APR-2008 15:47:27; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;32014  
 22; 6795.0; 14-APR-2008 15:49:51; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;32014  
 23; 6927.5; 14-APR-2008 15:52:04; Dark ; 36.0; 20; Bet Cru ; 1.25; 30000;occ; 72; 0;32014  
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 5; 2159.3; 14-APR-2008 16:13:12; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32015  
 6; 2275.4; 14-APR-2008 16:15:08; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;32015  
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 8; 2820.7; 14-APR-2008 16:24:13; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;32015  
 9; 2959.9; 14-APR-2008 16:26:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32015  
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 13; 4473.4; 14-APR-2008 16:51:46; Bright; 36.0; 164; 44Eta Peg ; 2.95; 5400;occ; 72; 0;32015  
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 23; 6795.5; 14-APR-2008 17:30:28; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;32015  
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8; 2672.7; 14-APR-2008 18:02:21; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;32016
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6; 2160.8; 15-APR-2008 17:22:12; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32030  
7; 2278.3; 15-APR-2008 17:24:09; Bright; 50.5; 96; 68Del Leo ; 2.56; 9300;occ; 101; 0;32030  
8; 2674.7; 15-APR-2008 17:30:46; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;32030  
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13; 3969.4; 15-APR-2008 17:52:21; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;32030  
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23; 6531.6; 15-APR-2008 18:35:03; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;32030  
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16; 4476.0; 15-APR-2008 21:21:59; Bright; 36.0; 164; 44Eta Peg ; 2.95; 5400;occ; 72; 0;32032
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13; 1500.6; 15-APR-2008 23:53:35; Dark ; 41.0; 106; 9Bet Crv ; 2.65; 5600;occ; 82; 0;32034
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23;	6810.3;	17-APR-2008	14:15:15;	Dark	; 42.0;	4;	Alp1Cen	; -0.01;	5800;occ;	84;	0;	32056
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3;	-220.9;	20-APR-2008	00:39:37;	Dark	;	42.0;	31;	Alp	Gru	;	1.73;	15200;occ;	84;	0;	32091
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5;	88.1;	20-APR-2008	00:44:46;	Dark	;	39.0;	45;	Alp	Pav	;	1.94;	26000;occ;	78;	0;	32092
6;	519.9;	20-APR-2008	00:51:58;	Dark	;	41.5;	43;	Alp	TrA	;	1.91;	4250;occ;	83;	0;	32092
7;	648.1;	20-APR-2008	00:54:06;	Dark	;	39.5;	134;	Bet	TrA	;	2.81;	6600;occ;	79;	0;	32092
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13;	1628.5;	20-APR-2008	01:10:27;	Bright;	;	37.5;	163;	7Del	Crv	;	2.94;	11000;occ;	75;	0;	32092
14;	1878.8;	20-APR-2008	01:14:37;	Bright;	;	36.5;	121;	29Gam	Vir	;	2.74;	7200;occ;	73;	0;	32092
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17;	2685.3;	20-APR-2008	01:28:03;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;occ;	72;	0;	32092
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20;	3443.3;	20-APR-2008	01:40:41;	Bright;	;	35.0;	49;	1Alp	UMi	;	1.99;	6300;occ;	70;	0;	32092
21;	3889.3;	20-APR-2008	01:48:07;	Bright;	;	45.5;	110;	37Del	Cas	;	2.68;	8900;occ;	91;	0;	32092
22;	3980.3;	20-APR-2008	01:49:38;	Bright;	;	35.0;	68;	18Alp	Cas	;	2.22;	4500;occ;	70;	0;	32092
23;	4510.7;	20-APR-2008	01:58:29;	Bright;	;	37.5;	93;	53Bet	Peg	;	2.52;	3100;occ;	75;	0;	32092
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4;	-37.0;	20-APR-2008	02:23:17;	Dark	;	38.0;	148;	Alp	Tuc	;	2.88;	4100;occ;	76;	0;	32092
5;	88.7;	20-APR-2008	02:25:23;	Dark	;	40.5;	45;	Alp	Pav	;	1.94;	26000;occ;	81;	0;	32093
6;	520.2;	20-APR-2008	02:32:34;	Dark	;	38.0;	43;	Alp	TrA	;	1.91;	4250;occ;	76;	0;	32093
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12;	1510.7;	20-APR-2008	02:49:05;	Dark	;	41.5;	106;	9Bet	Crv	;	2.65;	5600;occ;	83;	0;	32093
13;	1628.6;	20-APR-2008	02:51:03;	Bright;	;	35.0;	163;	7Del	Crv	;	2.94;	11000;occ;	70;	0;	32093
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15;	2168.5;	20-APR-2008	03:00:02;	Bright;	;	39.0;	62;	94Bet	Leo	;	2.14;	9700;occ;	78;	0;	32093
16;	2292.9;	20-APR-2008	03:02:07;	Bright;	;	35.0;	96;	68Del	Leo	;	2.56;	9300;occ;	70;	0;	32093
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4;	-1303.4;	20-APR-2008	03:42:47;	Dark	;	41.5;	90;	54Alp	Peg	;	2.49;	11000;occ;	83;	0;	32093
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6;	-339.6;	20-APR-2008	03:58:50;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	32093
7;	-219.9;	20-APR-2008	04:00:50;	Dark	;	39.5;	31;	Alp	Gru	;	1.73;	15200;occ;	79;	0;	32093
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 6; 2170.2; 20-APR-2008 19:46:04; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32103
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23; 6826.3; 20-APR-2008 21:03:40; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;32103
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14; 3897.9; 22-APR-2008 20:52:13; Bright; 32.5; 110; 37Del Cas ; 2.68; 8900;occ; 65; 0;32132
15; 3986.6; 22-APR-2008 20:53:42; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;32132
16; 4517.6; 22-APR-2008 21:02:33; Bright; 30.0; 93; 53Bet Peg ; 2.52; 3100;occ; 60; 0;32132
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 4; -25.8; 22-APR-2008 21:27:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;32132
 5; 112.1; 22-APR-2008 21:29:43; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;32133
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14; 1635.0; 22-APR-2008 21:55:06; Bright; 37.0; 163; 7Del Crv ; 2.94; 11000;occ; 74; 0;32133
15; 1882.6; 22-APR-2008 21:59:14; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32133
16; 2175.6; 22-APR-2008 22:04:07; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32133

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19; 2821.4; 22-APR-2008 22:14:52; Bright; 52.0; 87; 64Gam UMa ; 2.43; 11000;occ; 104; 0;32133
20; 2974.0; 22-APR-2008 22:17:25; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;32133
21; 3443.9; 22-APR-2008 22:25:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32133
22; 3898.0; 22-APR-2008 22:32:49; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;32133
23; 3986.8; 22-APR-2008 22:34:18; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;32133
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 6; 536.3; 22-APR-2008 23:17:23; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;32134
 7; 666.1; 22-APR-2008 23:19:33; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;32134
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13; 1493.9; 22-APR-2008 23:33:21; Dark ; 41.5; 169; 46Gam Hya ; 2.99; 4700;occ; 83; 0;32134
14; 1635.2; 22-APR-2008 23:35:42; Bright; 36.0; 163; 7Del Crv ; 2.94; 11000;occ; 72; 0;32134
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16; 2175.8; 22-APR-2008 23:44:43; Bright; 34.5; 62; 94Bet Leo ; 2.14; 9700;occ; 69; 0;32134
17; 2304.9; 22-APR-2008 23:46:52; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;32134
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23; 3987.0; 23-APR-2008 00:14:54; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;32134
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080424\_090926\_000060362068\_00036\_32154\_0776.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080424\_104929\_000058632068\_00037\_32155\_0777.N1



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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080425\_023129\_000056082068\_00046\_32164\_5564.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080427\_001433\_000045442068\_00073\_32191\_5574.N1

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12; 3995.6; 27-APR-2008 13:13:58; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;32199
13; 5521.7; 27-APR-2008 13:39:24; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;32199
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22; 6857.2; 27-APR-2008 19:03:27; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;32202
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10; 1025.4; 28-APR-2008 01:49:15; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;32207
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13; 1506.4; 28-APR-2008 01:57:16; Dark ; 52.0; 169; 46Gam Hya ; 2.99; 4700;occ; 104; 0;32207

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 7; 158.0; 28-APR-2008 03:15:24; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;32208  
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 7; 158.6; 28-APR-2008 04:56:00; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32209  
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6; 1709.2; 28-APR-2008 20:27:14; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;32218
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23; 6958.4; 28-APR-2008 18:33:32; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;32216
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13; 1508.8; 29-APR-2008 01:25:42; Dark ; 51.5; 169; 46Gam Hya ; 2.99; 4700;occ; 103; 0;32221
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16; 2094.4; 29-APR-2008 01:35:27; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32221
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11; 827.3; 29-APR-2008 07:56:44; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;32225
12; 923.2; 29-APR-2008 07:58:20; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;32225
13; 1031.5; 29-APR-2008 08:00:08; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;32225
14; 1124.5; 29-APR-2008 08:01:41; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;32225
15; 1251.1; 29-APR-2008 08:03:48; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;32225
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 4; 2197.2; 29-APR-2008 08:19:34; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32225
 5; 2560.2; 29-APR-2008 08:25:37; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;32225
 6; 2721.2; 29-APR-2008 08:28:18; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;32225
 7; 2830.3; 29-APR-2008 08:30:07; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;32225
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 9; 2991.6; 29-APR-2008 08:32:48; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;32225
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12; 3998.4; 29-APR-2008 08:49:35; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;32225
13; 5242.0; 29-APR-2008 09:10:19; Dark ; 38.0; 52; 16Bet Cet ; 2.04; 4500;occ; 76; 0;32225
14; 5533.4; 29-APR-2008 09:15:10; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;32225
15; 5719.3; 29-APR-2008 09:18:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32225
16; 5878.2; 29-APR-2008 09:20:55; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;32225
17; 6039.0; 29-APR-2008 09:23:36; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;32225
18; 6205.2; 29-APR-2008 09:26:22; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;32225
19; 6606.6; 29-APR-2008 09:33:03; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;32225
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21; 6863.5; 29-APR-2008 09:37:20; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;32225
22; 6959.1; 29-APR-2008 09:38:56; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0;32225
23; 7067.8; 29-APR-2008 09:40:45; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;32225
24; 7160.7; 29-APR-2008 09:42:18; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;32225
25; 7287.2; 29-APR-2008 09:44:24; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;32225
26; 7545.6; 29-APR-2008 09:48:42; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;32225
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 3; 2560.0; 29-APR-2008 10:06:13; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;32226
 4; 2721.6; 29-APR-2008 10:08:54; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;32226
 5; 2830.3; 29-APR-2008 10:10:43; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;32226
 6; 2912.0; 29-APR-2008 10:12:05; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;32226
 7; 2991.8; 29-APR-2008 10:13:25; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;32226
 8; 3444.7; 29-APR-2008 10:20:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;32226
 9; 3915.1; 29-APR-2008 10:28:48; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;32226
10; 3998.4; 29-APR-2008 10:30:11; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;32226
11; 5242.0; 29-APR-2008 10:50:55; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;32226
12; 5533.9; 29-APR-2008 10:55:47; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;32226
13; 5658.4; 29-APR-2008 10:57:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32226
14; 5878.8; 29-APR-2008 11:01:32; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;32226
15; 6205.8; 29-APR-2008 11:06:59; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32226

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 17; 6738.5; 29-APR-2008 11:15:51; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;32226  
 18; 6863.8; 29-APR-2008 11:17:57; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;32226  
 19; 6959.3; 29-APR-2008 11:19:32; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;32226  
 20; 7068.0; 29-APR-2008 11:21:21; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;32226  
 21; 7161.1; 29-APR-2008 11:22:54; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;32226  
 22; 7287.4; 29-APR-2008 11:25:00; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;32226  
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 4; 2197.7; 29-APR-2008 11:40:46; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;32227  
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 6; 2721.9; 29-APR-2008 11:49:31; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32227  
 7; 2830.4; 29-APR-2008 11:51:19; Bright; 33.5; 87; 64Gam UMa ; 2.43; 11000;occ; 67; 0;32227  
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 9; 2992.0; 29-APR-2008 11:54:01; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32227  
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 11; 3915.3; 29-APR-2008 12:09:24; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;32227  
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 15; 5659.0; 29-APR-2008 12:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32227  
 16; 5879.2; 29-APR-2008 12:42:08; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;32227  
 17; 6206.5; 29-APR-2008 12:47:35; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32227  
 18; 6607.3; 29-APR-2008 12:54:16; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;32227  
 19; 6738.9; 29-APR-2008 12:56:27; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32227  
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 21; 6959.4; 29-APR-2008 13:00:08; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;32227  
 22; 7068.6; 29-APR-2008 13:01:57; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;32227  
 23; 7161.3; 29-APR-2008 13:03:30; Dark ; 37.5; 81; Eta Cen ; 2.36; 28000;occ; 75; 0;32227  
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 3; 2094.7; 29-APR-2008 13:19:39; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32228  
 4; 2198.1; 29-APR-2008 13:21:23; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;32228  
 5; 2560.0; 29-APR-2008 13:27:25; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;32228  
 6; 2722.2; 29-APR-2008 13:30:07; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;32228  
 7; 2830.7; 29-APR-2008 13:31:55; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;32228  
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 21; 6864.4; 29-APR-2008 14:39:09; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;32228  
 22; 6959.5; 29-APR-2008 14:40:44; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;32228  
 23; 7068.8; 29-APR-2008 14:42:33; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;32228  
 24; 7161.8; 29-APR-2008 14:44:06; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;32228  
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 3; 1894.2; 29-APR-2008 14:56:55; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32229  
 4; 2094.8; 29-APR-2008 15:00:15; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32229  
 5; 2198.4; 29-APR-2008 15:01:59; Bright; 34.5; 62; 94Bet Leo ; 2.14; 9700;occ; 69; 0;32229  
 6; 2560.0; 29-APR-2008 15:08:00; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;32229  
 7; 2722.5; 29-APR-2008 15:10:43; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;32229

8; 2830.9; 29-APR-2008 15:12:31; Bright; 33.5; 87; 64Gam UMa ; 2.43; 11000;occ; 67; 0;32229  
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22; 6864.7; 29-APR-2008 16:19:45; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;32229  
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21; 6208.5; 29-APR-2008 17:49:25; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32230  
22; 6608.5; 29-APR-2008 17:56:05; Dark ; 46.0; 43; Alp TrA ; 1.91; 4250;occ; 92; 0;32230  
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6; 175.6; 30-APR-2008 02:12:28; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;32236
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8; 177.7; 30-APR-2008 07:14:18; Dark ; 36.0; 45; Alp Pav ; 1.94; 26000;occ; 72; 0;32239
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23; 7072.5; 30-APR-2008 09:09:12; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;32239
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 21; 6868.2; 30-APR-2008 14:07:36; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;32242  
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 25; 7291.4; 30-APR-2008 14:14:39; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;32242  
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 6; 2559.9; 30-APR-2008 14:36:23; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;32243  
 7; 2727.4; 30-APR-2008 14:39:11; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32243  
 8; 2832.8; 30-APR-2008 14:40:56; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;32243  
 9; 2916.9; 30-APR-2008 14:42:20; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;32243  
 10; 2995.8; 30-APR-2008 14:43:39; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;32243  
 11; 3444.9; 30-APR-2008 14:51:08; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;32243  
 12; 3918.2; 30-APR-2008 14:59:02; Bright; 48.5; 110; 37Del Cas ; 2.68; 8900;occ; 97; 0;32243  
 13; 4000.5; 30-APR-2008 15:00:24; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;32243  
 14; 5243.9; 30-APR-2008 15:21:07; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;32243  
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 16; 5668.5; 30-APR-2008 15:28:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32243  
 17; 5888.1; 30-APR-2008 15:31:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;32243  
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 23; 6961.1; 30-APR-2008 15:49:45; Dark ; 46.0; 20; Bet Cru ; 1.25; 30000;occ; 92; 0;32243  
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8; 2727.7; 30-APR-2008 16:19:47; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;32244
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17; 5669.2; 30-APR-2008 17:08:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32244
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19; 6045.8; 30-APR-2008 17:15:05; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;32244
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21; 6613.6; 30-APR-2008 17:24:33; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;32244
22; 6745.3; 30-APR-2008 17:26:45; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32244
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3; 1256.0; 30-APR-2008 17:35:52; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;32245
4; 1513.0; 30-APR-2008 17:40:09; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;32245
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7; 2095.7; 30-APR-2008 17:49:51; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32245
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10; 2728.1; 30-APR-2008 18:00:24; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32245
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13; 2996.2; 30-APR-2008 18:04:52; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;32245
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16; 4000.6; 30-APR-2008 18:21:36; Bright; 32.5; 68; 18Alp Cas ; 2.22; 4500;occ; 65; 0;32245
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7; 1896.8; 30-APR-2008 19:27:08; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;32246
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22;	6046.4;	30-APR-2008	20:36:18;	Dark	;	37.0;	148;	Alp	Tuc	;	2.88;	4100;occ;	74;	0;32246
23;	6614.1;	30-APR-2008	20:45:46;	Dark	;	38.0;	43;	Alp	TrA	;	1.91;	4250;occ;	76;	0;32246
24;	6746.0;	30-APR-2008	20:47:58;	Dark	;	36.5;	134;	Bet	TrA	;	2.81;	6600;occ;	73;	0;32246
25;	6869.3;	30-APR-2008	20:50:01;	Dark	;	43.5;	4;	Alp1Cen		;	-0.01;	5800;occ;	87;	0;32246
26;	6961.2;	30-APR-2008	20:51:33;	Dark	;	38.5;	20;	Bet	Cru	;	1.25;	30000;occ;	77;	0;32246