

# GOMOS Daily Report 04-MAR-2010

## Level 0 and Level 1 products

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## [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	07MAR2010 04:51:20
Data source version	GOMOS/5.00L04
Start time of products	04MAR2010 00:12:23
Stop time of products	04MAR2010 23:56:09
Store outputs in DB	Yes
Nb of level 1b prods	131
Nb of prods with errors	2

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

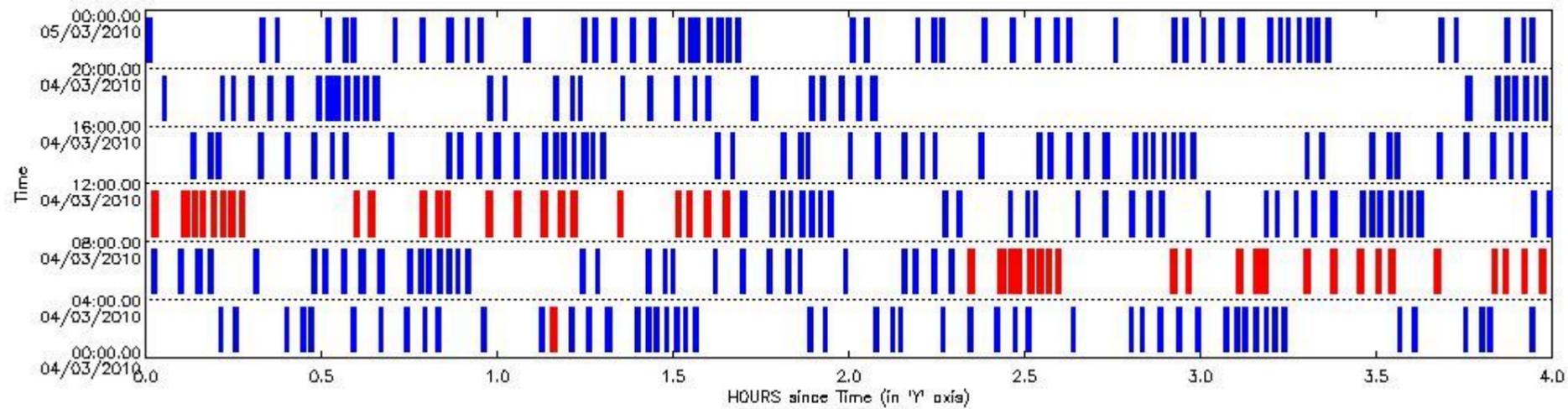
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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).



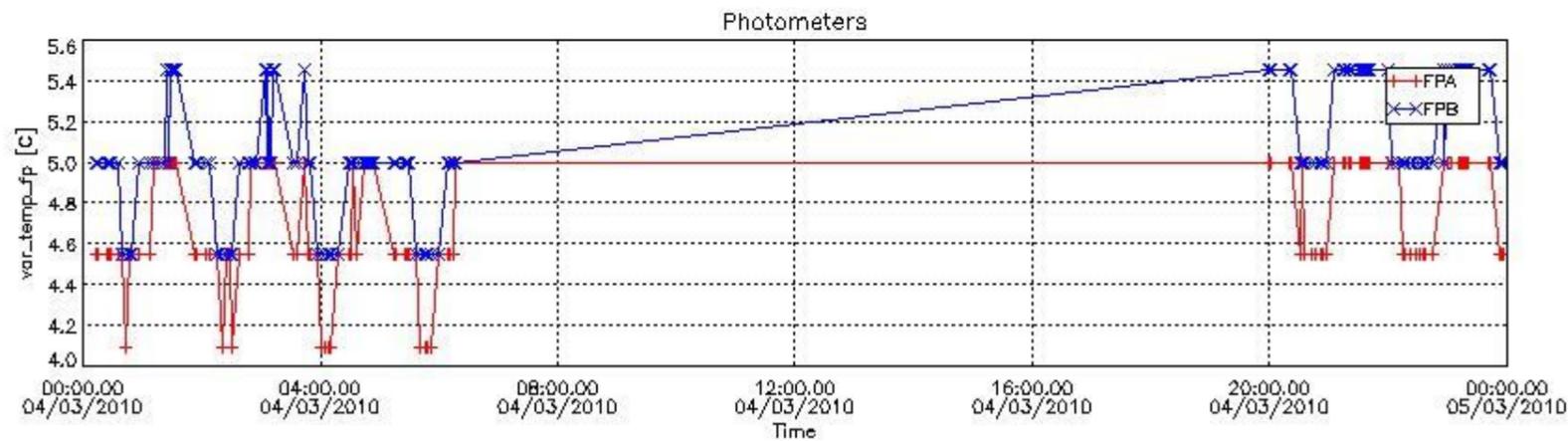
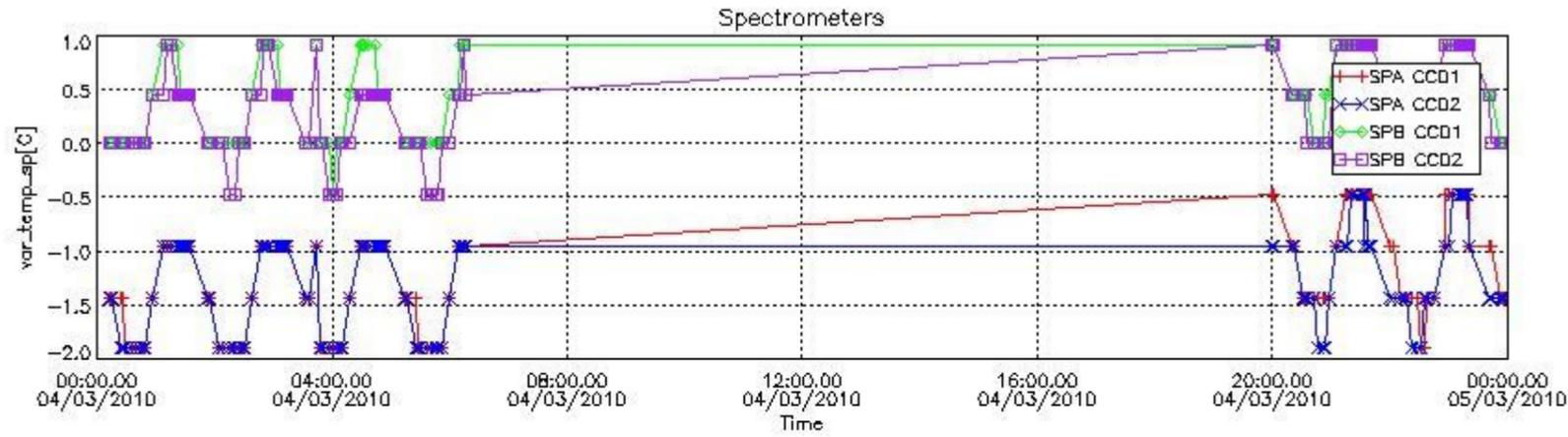
### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
04-MAR-2010 01:09:08	34SigSgr	57	41868
04-MAR-2010 06:20:23	DSA1044	0	41872
04-MAR-2010 06:25:24	GamLup	131	41872
04-MAR-2010 06:27:14	Alp1Cen	4	41872
04-MAR-2010 06:28:33	BetCen	10	41872
04-MAR-2010 06:30:25	EpsCen	77	41872
04-MAR-2010 06:32:05	GamCru	26	41872
04-MAR-2010 06:33:35	GamCen	64	41872
04-MAR-2010 06:35:14	IotCen	123	41872
04-MAR-2010 06:54:53	32AlpLeo	22	41872
04-MAR-2010 06:57:25	41Gam1Leo	51	41872
04-MAR-2010 07:06:06	52PsiUMa	174	41872
04-MAR-2010 07:08:58	48BetUMa	82	41872
04-MAR-2010 07:10:20	50AlpUMa	36	41872
04-MAR-2010 07:17:33	7BetUMi	60	41872









#### 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).

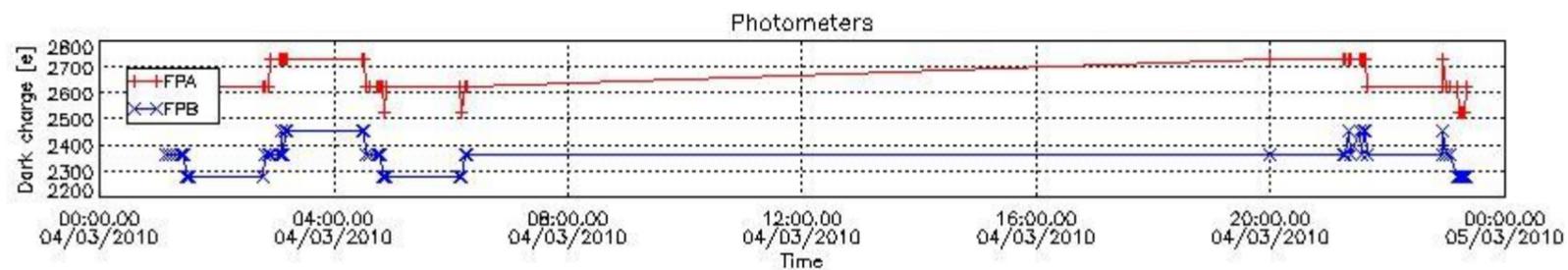
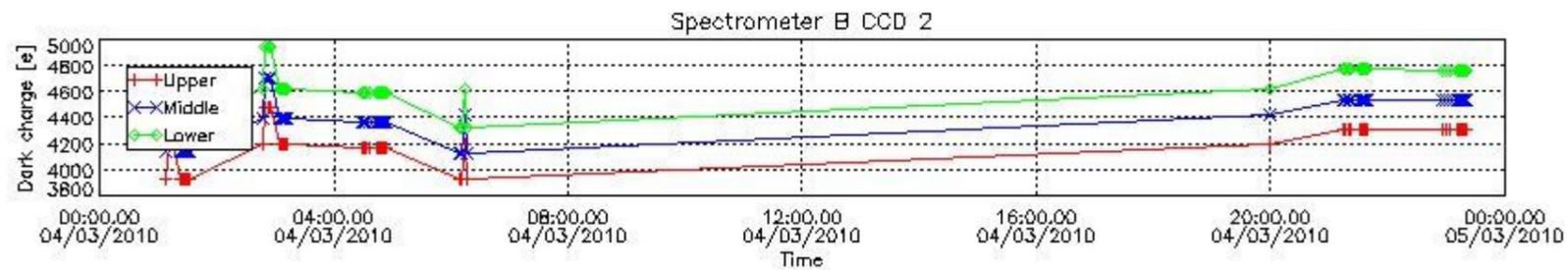
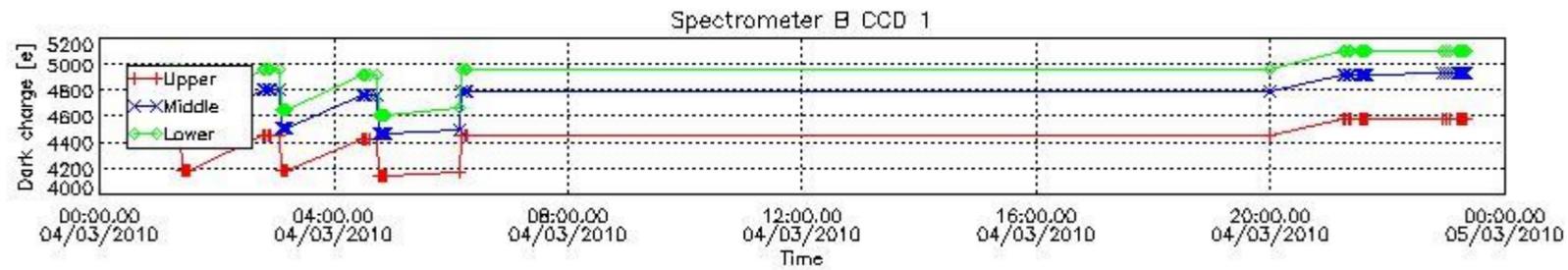
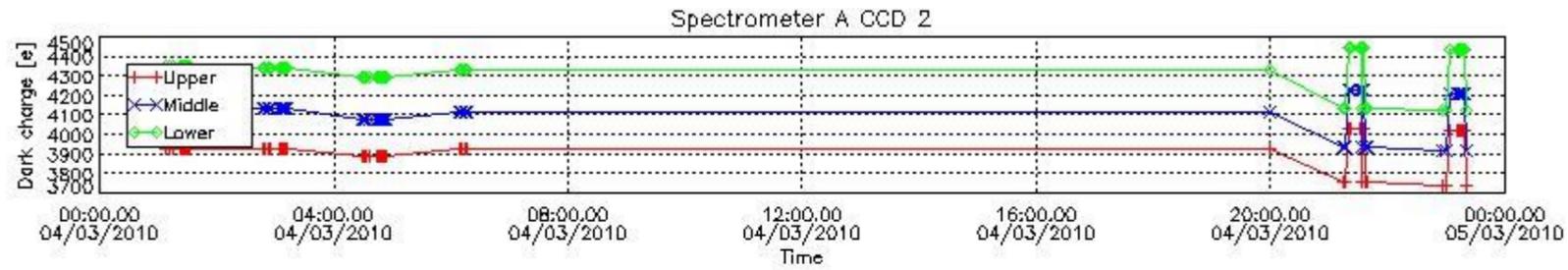
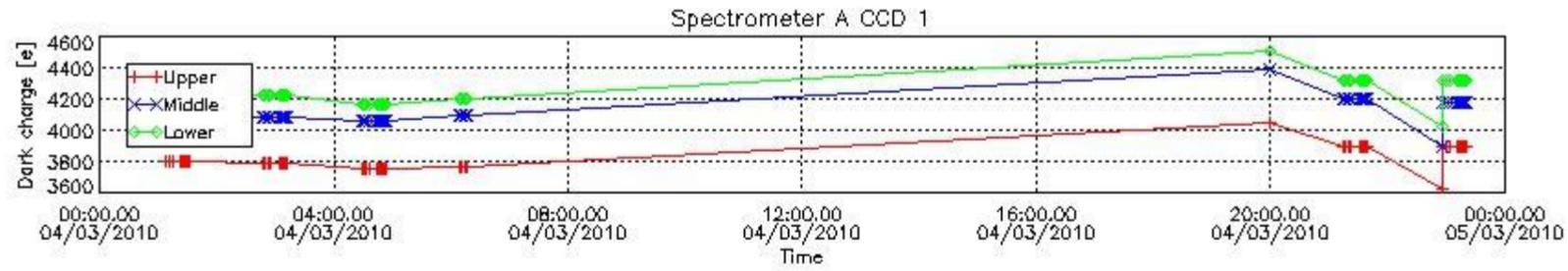
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20100304_054127_000000482087_00234_41871_3501.N1	DC map used
GOM_TRA_1PNPDE20100304_054559_000000492087_00234_41871_3502.N1	DC map used
GOM_TRA_1PNPDE20100304_054907_000000502087_00234_41871_3503.N1	DC map used
GOM_TRA_1PNPDE20100304_055116_000000442087_00234_41871_3504.N1	DC map used
GOM_TRA_1PNPDE20100304_055905_000000402087_00234_41871_3505.N1	DC map used
GOM_TRA_1PNPDE20100304_060859_000000432087_00234_41871_3506.N1	DC map used
GOM_TRA_1PNPDE20100304_061051_000000442087_00234_41871_3507.N1	DC map used
GOM_TRA_1PNPDE20100304_061401_000000482087_00234_41871_3508.N1	DC map used
GOM_TRA_1PNPDE20100304_061702_000000462087_00234_41871_3509.N1	DC map used
GOM_TRA_1PNPDE20100304_195820_000000472087_00243_41880_3635.N1	DC map used
GOM_TRA_1PNPDE20100304_200001_000000572087_00243_41880_3636.N1	DC map used
GOM_TRA_1PNPDE20100304_201933_000000442087_00243_41880_3637.N1	DC map used
GOM_TRA_1PNPDE20100304_202204_000000432087_00243_41880_3638.N1	DC map used
GOM_TRA_1PNPDE20100304_203042_000000452087_00243_41880_3639.N1	DC map used

GOM_TRA_1PNPDE20100304_203335_000000592087_00243_41880_3640.N1	DC map used
GOM_TRA_1PNPDE20100304_203458_000000422087_00243_41880_3641.N1	DC map used
GOM_TRA_1PNPDE20100304_204210_000000402087_00243_41880_3642.N1	DC map used
GOM_TRA_1PNPDE20100304_204647_000000482087_00243_41880_3643.N1	DC map used
GOM_TRA_1PNPDE20100304_205119_000000682087_00243_41880_3644.N1	DC map used
GOM_TRA_1PNPDE20100304_205431_000000362087_00243_41880_3645.N1	DC map used
GOM_TRA_1PNPDE20100304_205640_000000472087_00243_41880_3646.N1	DC map used

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



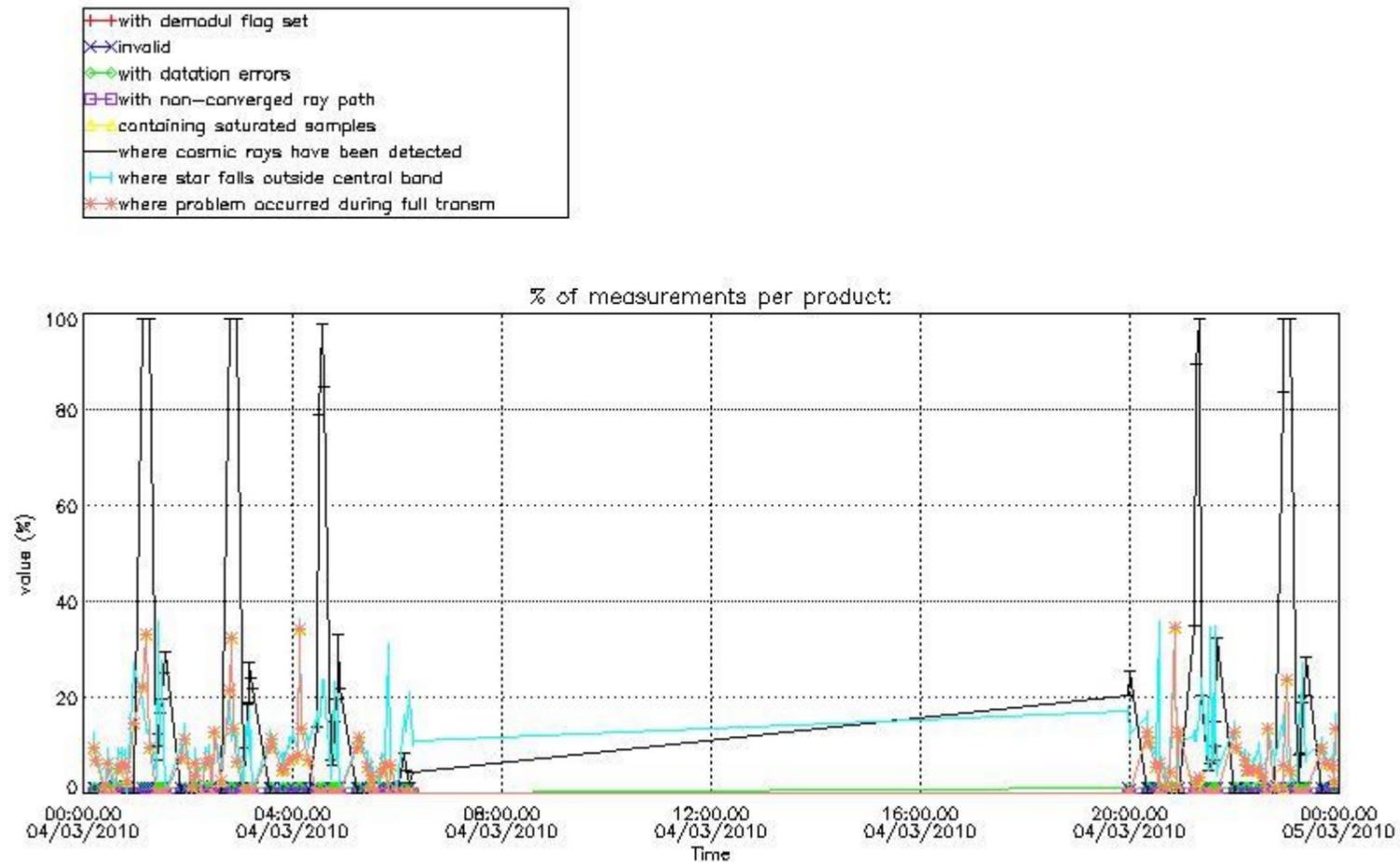
## 5. Demodulation flag and quality information monitoring

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

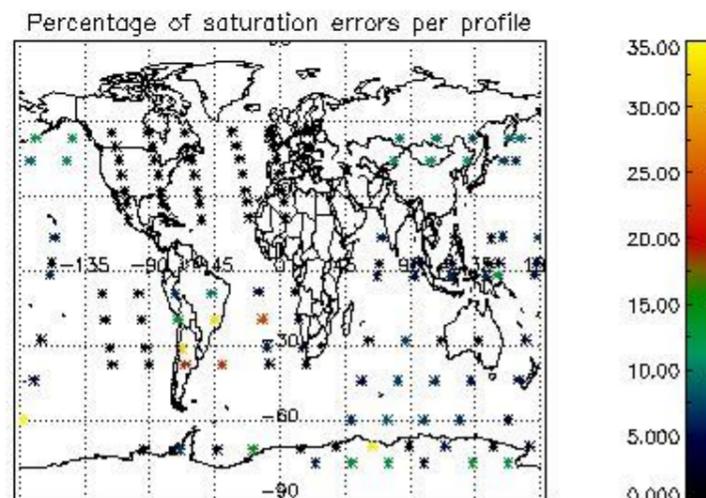
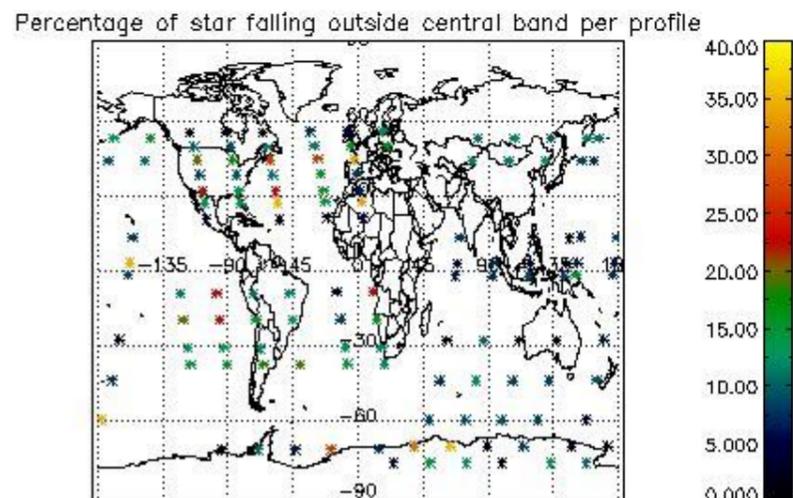
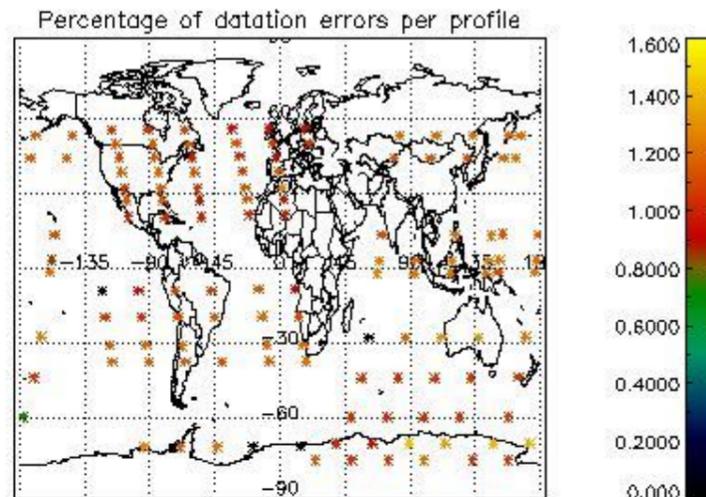
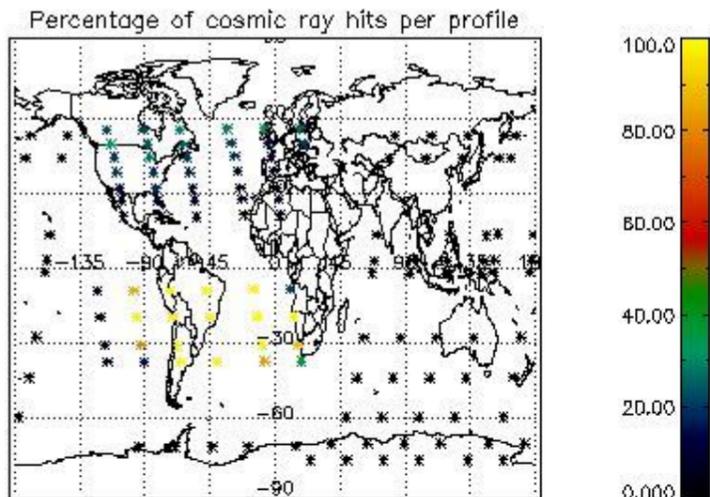
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	29.4574 %
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)



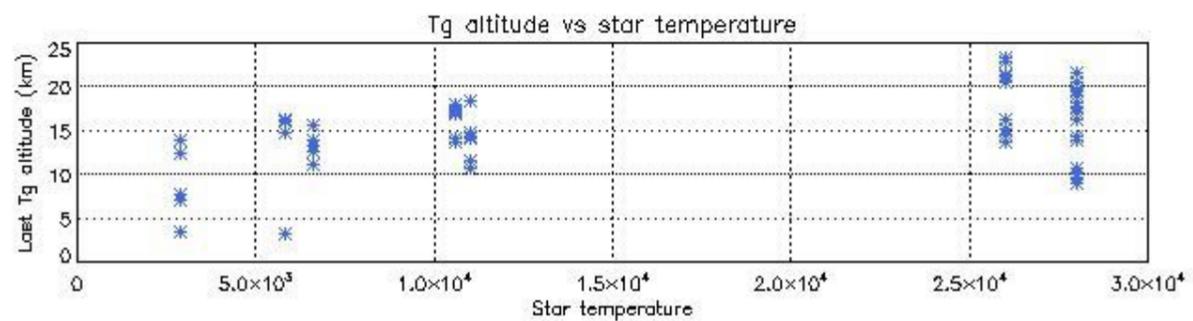
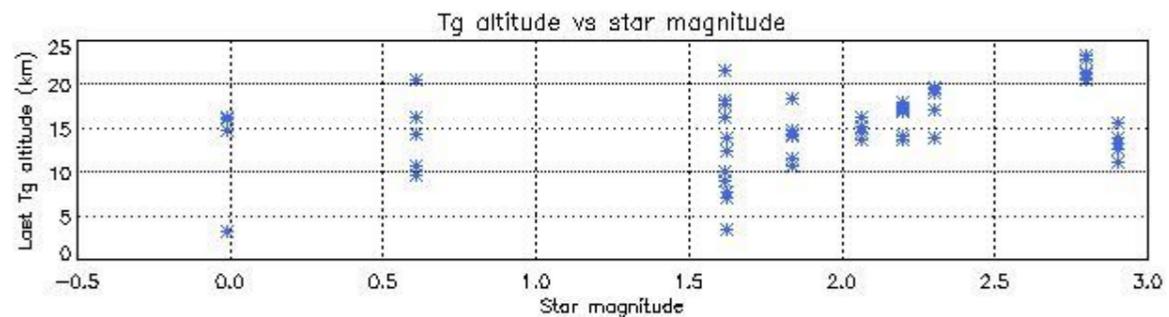
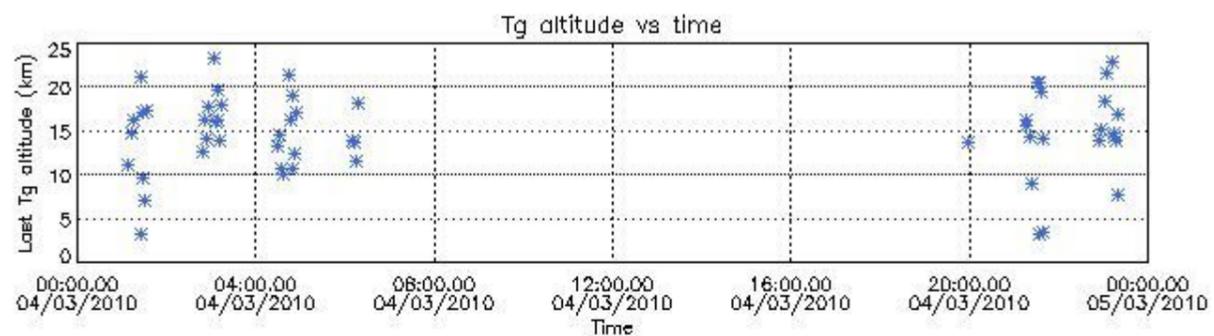
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.765	18.431	NaN
St. deviation:	4.6489	4.9353	NaN
Maximum:	23.371	30.641	NaN
Minimum:	3.1040	3.5770	NaN
Number of data:	54.000	69.000	NaN

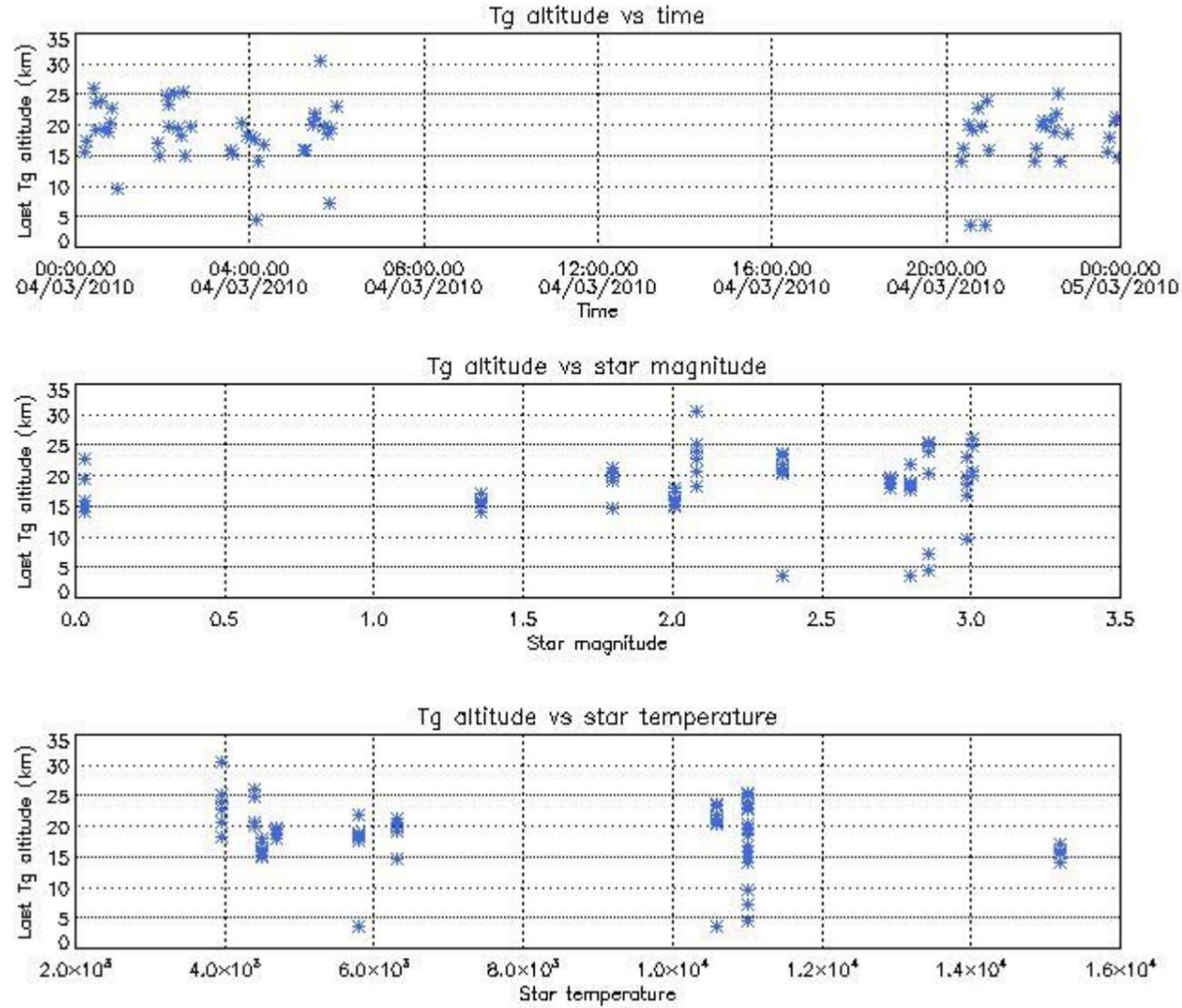
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

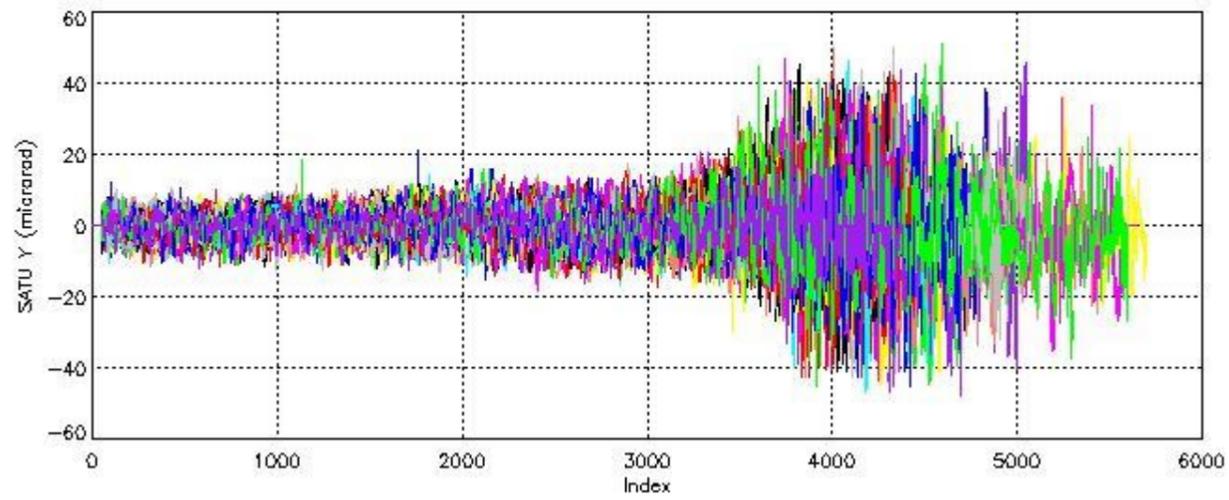
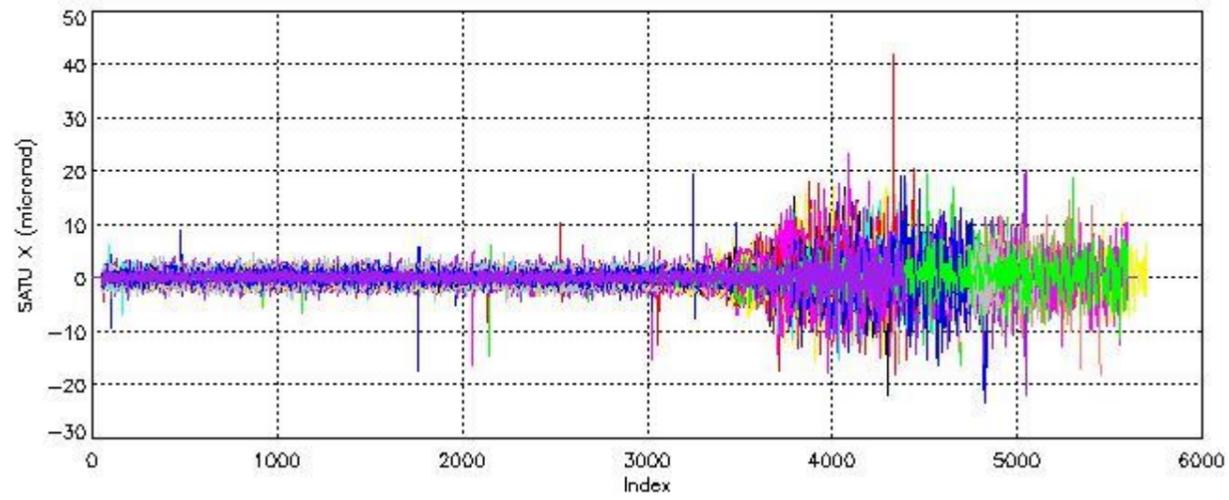


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15300	-0.31371	0.17441	-0.19878
St. deviation:	0.59538	2.7751	0.69860	2.8718
Maximum:	9.1000	12.200	5.6000	11.600
Minimum:	-9.2000	-12.600	-4.9000	-14.200

Number of data:	53750.	53750.	68850.	68850.
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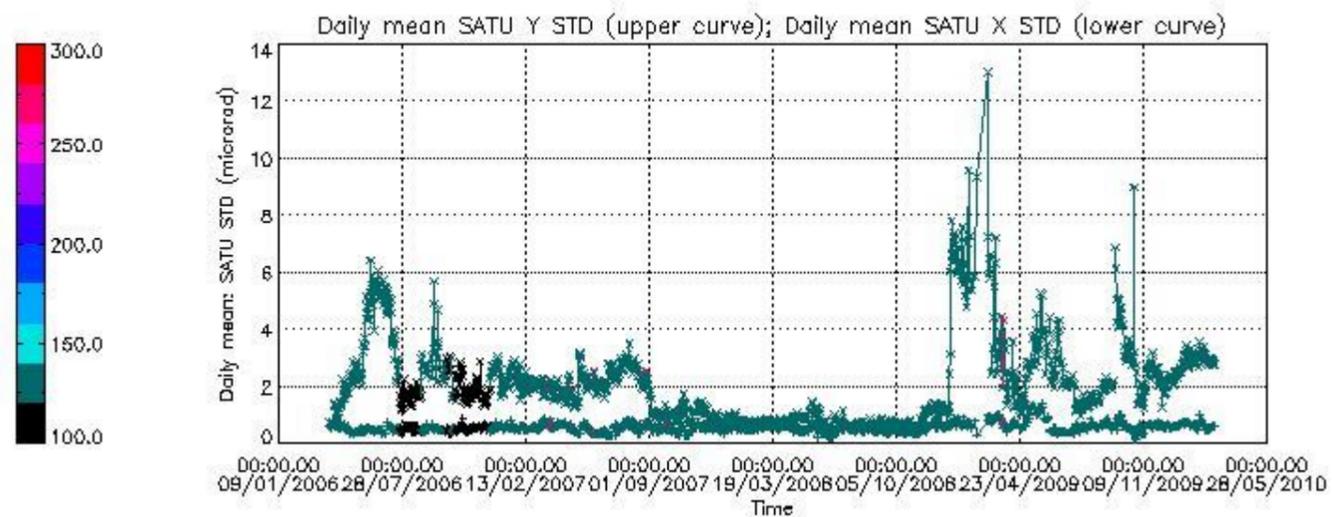
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

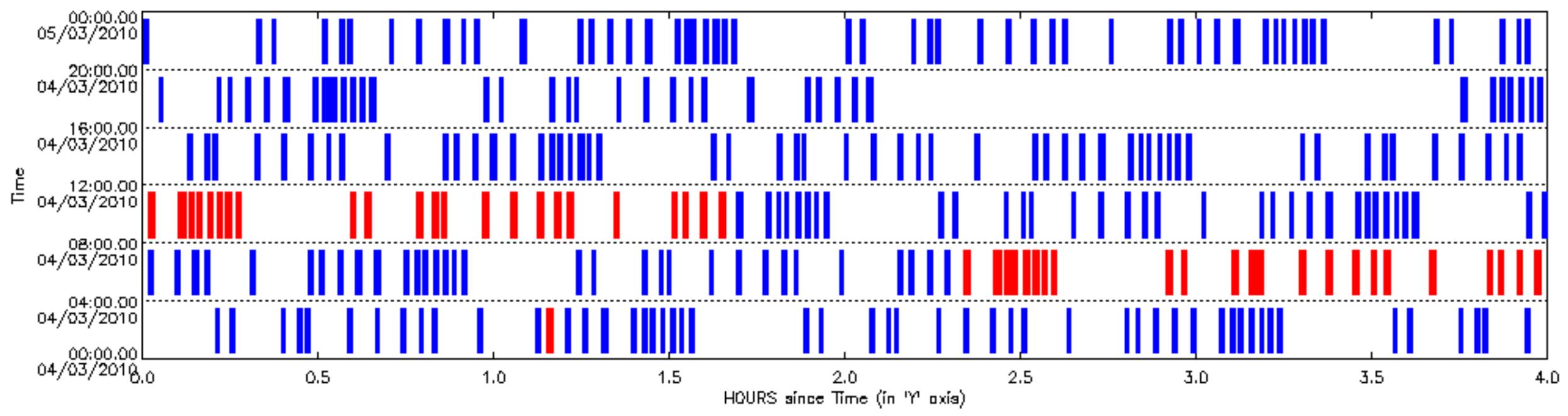
Lower curve: STD of SATU X axis

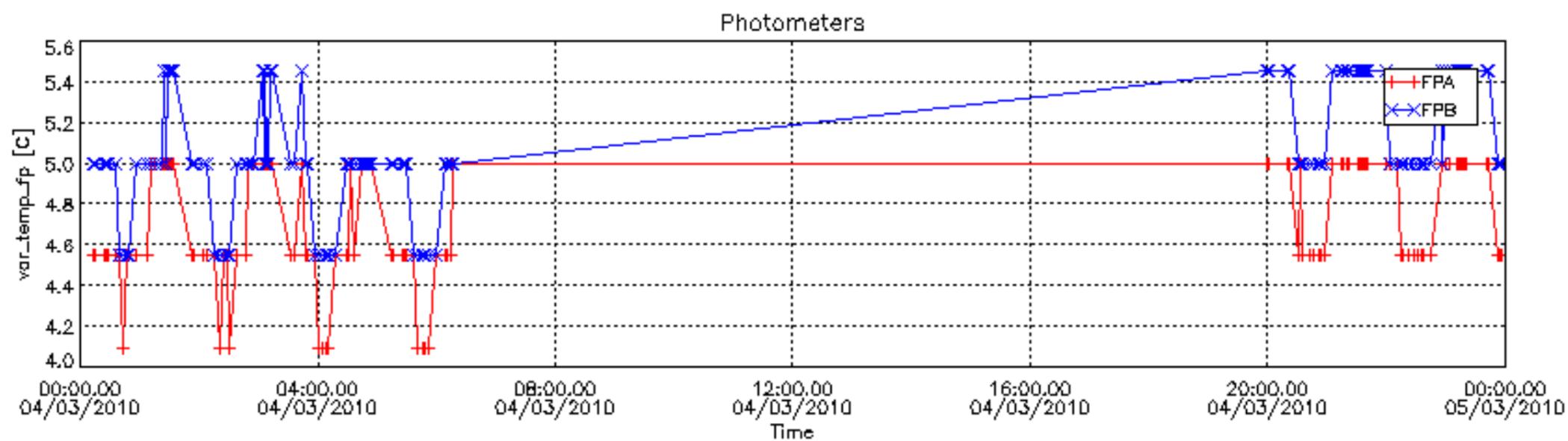
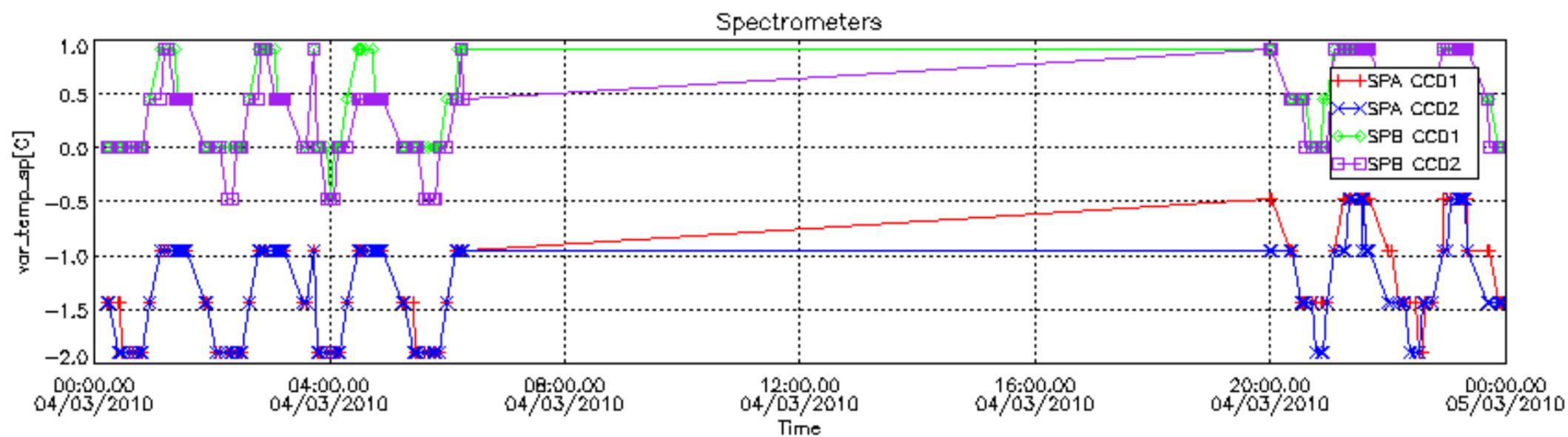


### 8. Auxiliary Data Files used for the production reported in section 2.4

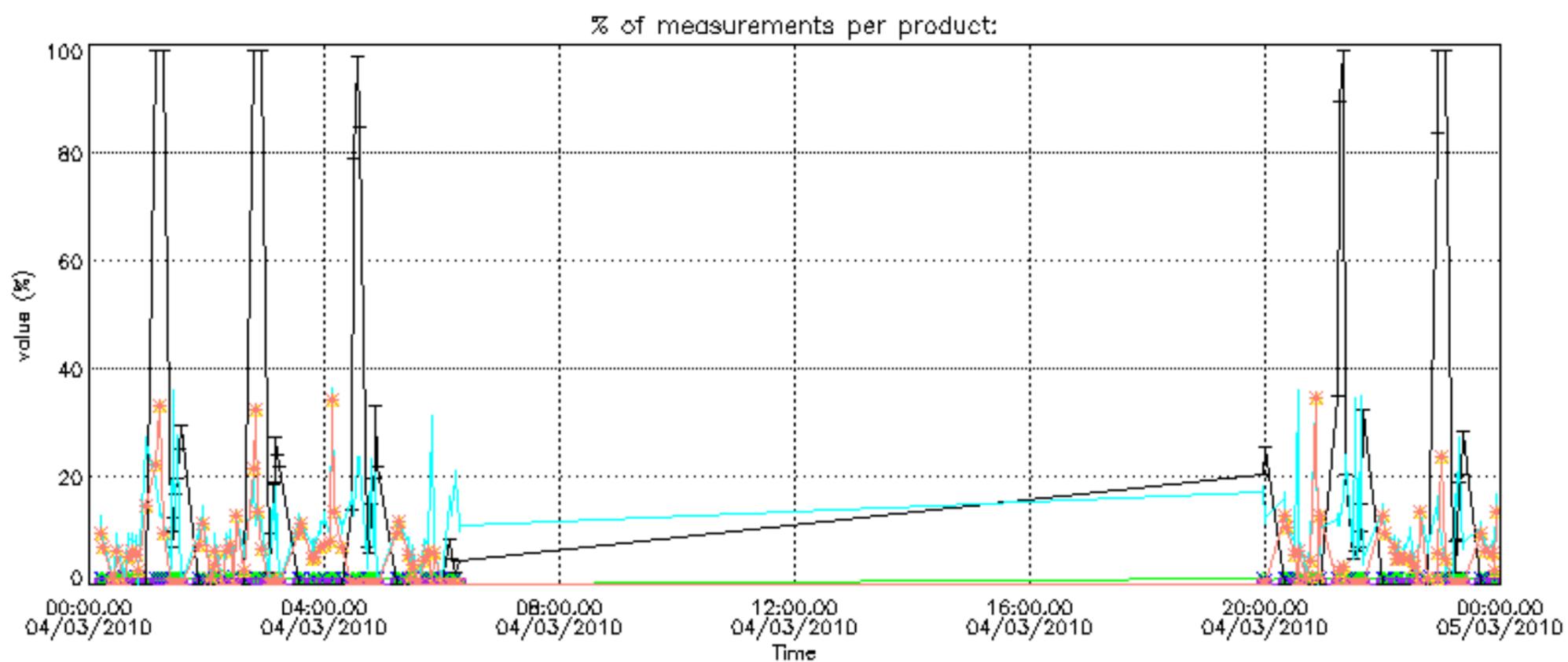
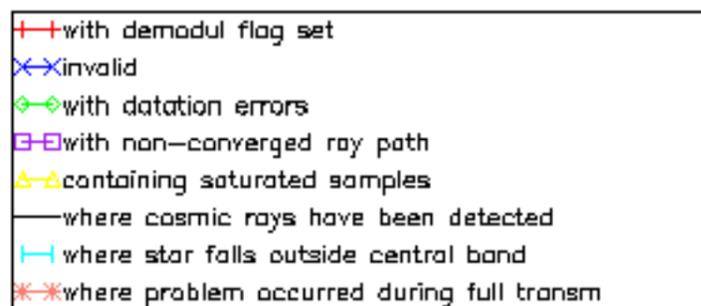
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-MAR-2010 00:12:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100302_095607_20100228_000000_20500101_000000	1	04-MAR-2010 00:12:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	04-MAR-2010 00:12:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-MAR-2010 00:12:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	04-MAR-2010 00:12:23
ECMWF_FILE	AUX_ECF_AXNECM20100303_053010_20100303_210000_20100304_090000	1	04-MAR-2010 00:12:23
ECMWF_FILE	AUX_ECF_AXNECM20100303_171011_20100304_030000_20100304_150000	46	04-MAR-2010 03:44:49
ECMWF_FILE	AUX_ECA_AXNECM20100304_052112_20100303_210000_20100304_090000	72	04-MAR-2010 05:41:27
ECMWF_FILE	AUX_ECF_AXNECM20100304_052113_20100304_150000_20100305_030000	81	04-MAR-2010 19:58:20
ECMWF_FILE	AUX_ECF_AXNECM20100304_055626_20100304_210000_20100305_090000	93	04-MAR-2010 21:04:32
OPTIONAL_ECMWF_FILE	MISSING	1	04-MAR-2010 00:12:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100303_232133_000057382087_00230_41867_9871.N1	1	04-MAR-2010 00:12:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100304_010230_000092452087_00231_41868_9872.N1	12	04-MAR-2010 01:07:10
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100303_105009_20100302_190654_20100312_203308	46	04-MAR-2010 03:44:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100304_195412_000038252087_00243_41880_9875.N1	81	04-MAR-2010 19:58:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100304_210316_000060572087_00243_41880_9876.N1	93	04-MAR-2010 21:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100304_224932_000057382087_00244_41881_9877.N1	116	04-MAR-2010 22:55:04





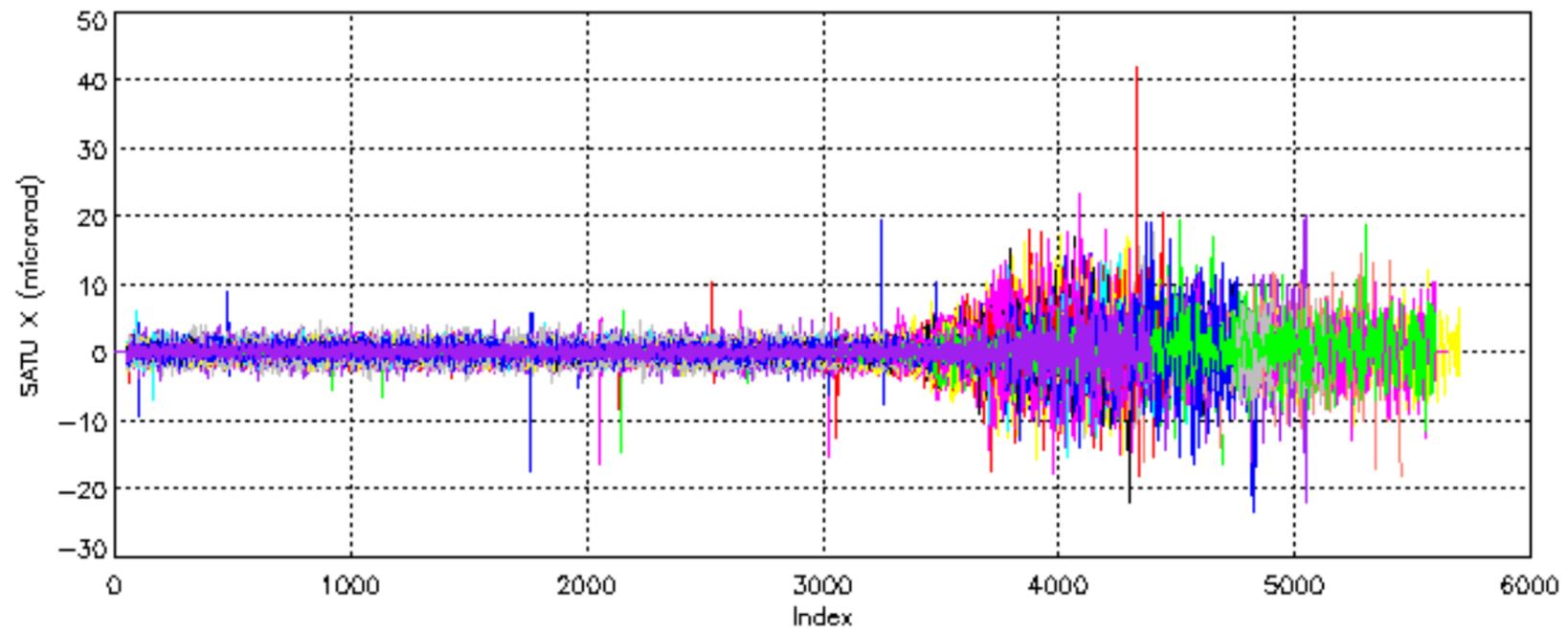


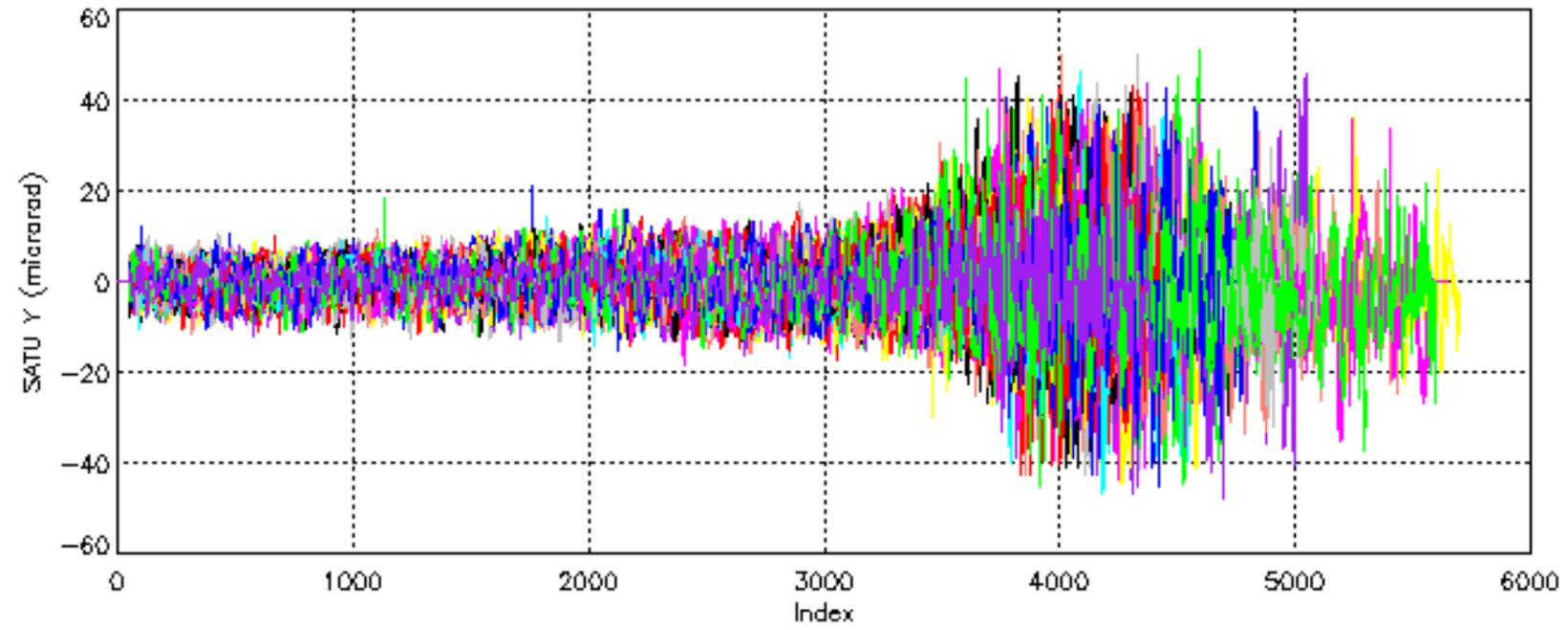


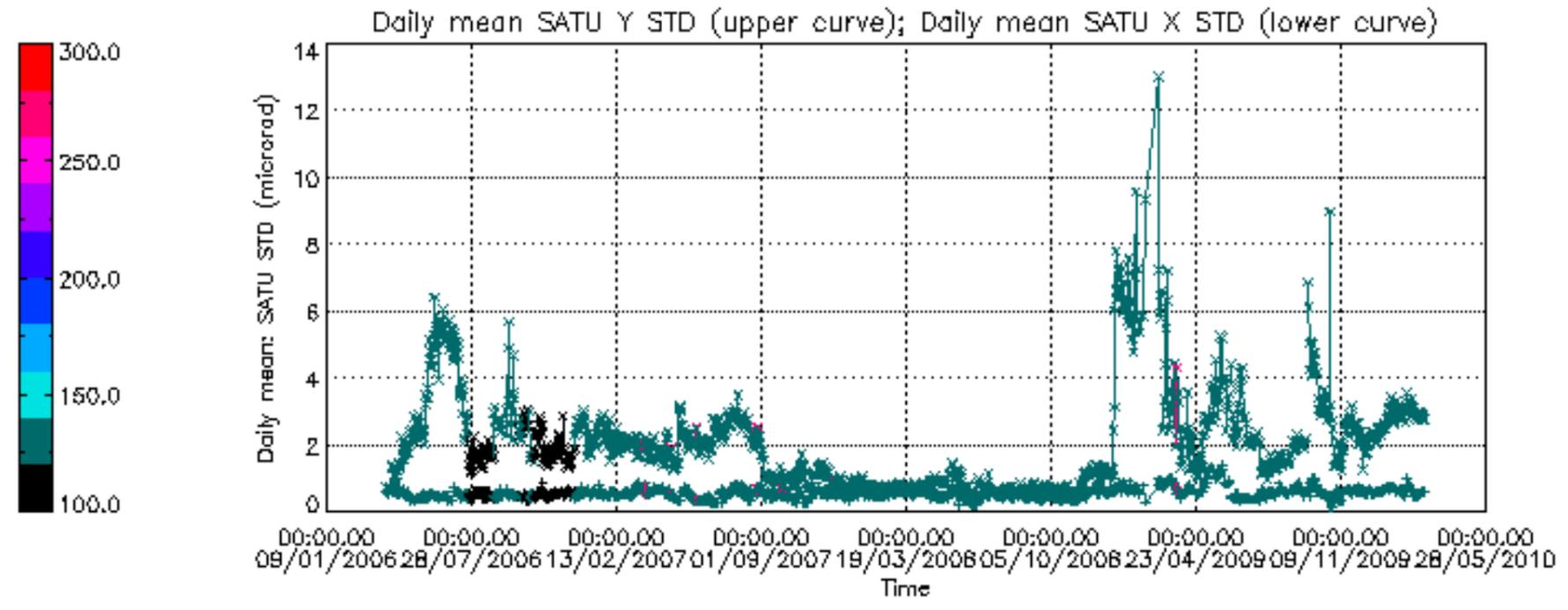






























































































































































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7; -520.3; 16-MAR-2010 03:12:37; Dark ; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;42041
8; -398.2; 16-MAR-2010 03:14:39; Dark ; 49.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 98; 0;42041
9; -190.3; 16-MAR-2010 03:18:07; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;42041
10; 63.7; 16-MAR-2010 03:22:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42042
11; 170.8; 16-MAR-2010 03:24:08; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;42042
12; 556.9; 16-MAR-2010 03:30:34; Dark ; 47.5; 4; Alp1Cen ;-0.01; 5800;occ; 95; 0;42042
13; 673.0; 16-MAR-2010 03:32:30; Dark ; 48.5; 78; Alp Lup ; 2.30; 28000;occ; 97; 0;42042
14; 759.7; 16-MAR-2010 03:33:56; Dark ; 51.0; 81; Eta Cen ; 2.36; 28000;occ; 102; 0;42042
15; 947.8; 16-MAR-2010 03:37:05; Dark ; 59.5; 54; 5The Cen ; 2.06; 4500;occ; 119; 0;42042
16; 1058.6; 16-MAR-2010 03:38:55; Dark ; 50.0; 123; Iot Cen ; 2.75; 10200;occ; 100; 0;42042
17; 1407.7; 16-MAR-2010 03:44:44; Dark ; 54.5; 106; 9Bet Crv ; 2.65; 5600;occ; 109; 0;42042
18; 1547.7; 16-MAR-2010 03:47:04; Dark ; 49.5; 100; 4Gam Crv ; 2.58; 13100;occ; 99; 0;42042
19; 2246.3; 16-MAR-2010 03:58:43; Bright; 37.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 75; 0;42042
20; 2712.5; 16-MAR-2010 04:06:29; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;42042
21; 2903.5; 16-MAR-2010 04:09:40; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;42042
22; 2992.7; 16-MAR-2010 04:11:10; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42042
23; 3089.2; 16-MAR-2010 04:12:46; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;42042
24; 3417.3; 16-MAR-2010 04:18:14; Bright; 59.0; 60; 7Bet UMi ; 2.08; 3950;occ; 118; 0;42042
25; 3662.7; 16-MAR-2010 04:22:20; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;42042
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20100316_060255_000039712087_00406_42043_6520.N1
1; -2374.1; 16-MAR-2010 06:02:55; Bright; 49.5; 119; 14Eta Dra ; 2.73; 4700;occ; 99; 0;42043
2; -2018.4; 16-MAR-2010 06:08:50; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;42043
3; -1825.7; 16-MAR-2010 06:12:03; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;42043
4; -1731.6; 16-MAR-2010 06:13:37; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;42043
5; -1628.9; 16-MAR-2010 06:15:20; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;42043
6; -1128.6; 16-MAR-2010 06:23:40; Dark ; 51.5; 11; 53Alp Aql ; 0.76; 8000;occ; 103; 0;42043
7; -518.5; 16-MAR-2010 06:33:50; Dark ; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;42043
8; -396.4; 16-MAR-2010 06:35:52; Dark ; 47.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 95; 0;42043
9; -313.3; 16-MAR-2010 06:37:16; Dark ; 54.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 109; 0;42043
10; -188.5; 16-MAR-2010 06:39:20; Dark ; 49.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 99; 0;42043
11; 65.1; 16-MAR-2010 06:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42044
12; 171.9; 16-MAR-2010 06:45:21; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;42044
13; 558.4; 16-MAR-2010 06:51:47; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;42044
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15; 761.6; 16-MAR-2010 06:55:10; Dark ; 55.5; 81; Eta Cen ; 2.36; 28000;occ; 111; 0;42044
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22; 3078.3; 17-MAR-2010 07:02:10; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;42058  
23; 3411.7; 17-MAR-2010 07:07:44; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42058  
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16; 5865.6; 17-MAR-2010 14:31:01; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42062
17; 6114.9; 17-MAR-2010 14:35:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42062
18; 6220.7; 17-MAR-2010 14:36:56; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;42062
19; 6604.8; 17-MAR-2010 14:43:20; Dark ; 57.0; 4; Alp1Cen ;-0.01; 5800;occ; 114; 0;42062
20; 6725.8; 17-MAR-2010 14:45:21; Dark ; 47.0; 78; Alp Lup ; 2.30; 28000;occ; 94; 0;42062

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17; 5658.8; 17-MAR-2010 19:29:22; Dark ; 46.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 92; 0;42065

18; 5746.5; 17-MAR-2010 19:30:50; Dark ; 53.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 106; 0;42065

19; 5868.6; 17-MAR-2010 19:32:52; Dark ; 49.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 99; 0;42065

20; 6117.2; 17-MAR-2010 19:37:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42065

21; 6222.9; 17-MAR-2010 19:38:46; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;42065

22; 6606.5; 17-MAR-2010 19:45:10; Dark ; 54.0; 4; Alp1Cen ;-0.01; 5800;occ; 108; 0;42065

23; 6728.3; 17-MAR-2010 19:47:12; Dark ; 49.5; 78; Alp Lup ; 2.30; 28000;occ; 99; 0;42065

24; 6817.0; 17-MAR-2010 19:48:40; Dark ; 48.5; 81; Eta Cen ; 2.36; 28000;occ; 97; 0;42065

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1; -498.3; 18-MAR-2010 00:29:09; Dark ; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;42068

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3; -286.1; 18-MAR-2010 00:32:41; Dark ; 57.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 115; 0;42068

4; -164.6; 18-MAR-2010 00:34:42; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;42068

5; 83.5; 18-MAR-2010 00:38:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42069

6; 188.6; 18-MAR-2010 00:40:36; Dark ; 47.0; 141; Bet Ara ; 2.84; 4600;occ; 94; 0;42069

7; 571.9; 18-MAR-2010 00:46:59; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;42069

8; 694.8; 18-MAR-2010 00:49:02; Dark ; 50.5; 78; Alp Lup ; 2.30; 28000;occ; 101; 0;42069

9; 783.4; 18-MAR-2010 00:50:30; Dark ; 52.0; 81; Eta Cen ; 2.36; 28000;occ; 104; 0;42069

10; 969.1; 18-MAR-2010 00:53:36; Dark ; 61.5; 54; 5The Cen ; 2.06; 4500;occ; 123; 0;42069

11; 1074.0; 18-MAR-2010 00:55:21; Dark ; 50.0; 123; Tot Cen ; 2.75; 10200;occ; 100; 0;42069

12; 1414.7; 18-MAR-2010 01:01:02; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;42069

13; 1551.0; 18-MAR-2010 01:03:18; Dark ; 51.0; 100; 4Gam Crv ; 2.58; 13100;occ; 102; 0;42069

14; 2208.8; 18-MAR-2010 01:14:16; Bright; 65.0; 62; 94Bet Leo ; 2.14; 9700;occ; 130; 0;42069

15; 2703.9; 18-MAR-2010 01:22:31; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;42069

16; 2896.5; 18-MAR-2010 01:25:43; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;42069

17; 2986.3; 18-MAR-2010 01:27:13; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;42069

18; 3071.1; 18-MAR-2010 01:28:38; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;42069

19; 3407.6; 18-MAR-2010 01:34:14; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;42069

20; 3646.2; 18-MAR-2010 01:38:13; Bright; 49.0; 119; 14Eta Dra ; 2.73; 4700;occ; 98; 0;42069

21; 4211.3; 18-MAR-2010 01:47:38; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;42069

22; 4306.0; 18-MAR-2010 01:49:13; Bright; 56.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 112; 0;42069

23; 4410.3; 18-MAR-2010 01:50:57; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;42069

24; 4918.2; 18-MAR-2010 01:59:25; Dark ; 53.0; 11; 53Alp Aql ; 0.76; 8000;occ; 106; 0;42069

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1; -497.4; 18-MAR-2010 02:09:45; Dark ; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;42069

2; -373.6; 18-MAR-2010 02:11:49; Dark ; 48.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 96; 0;42069

3; -284.9; 18-MAR-2010 02:13:18; Dark ; 62.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 125; 0;42069

4; -163.5; 18-MAR-2010 02:15:19; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;42069

5; 84.2; 18-MAR-2010 02:19:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42070

6; 189.3; 18-MAR-2010 02:21:12; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;42070

7; 572.5; 18-MAR-2010 02:27:35; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;42070

8; 695.7; 18-MAR-2010 02:29:38; Dark ; 47.5; 78; Alp Lup ; 2.30; 28000;occ; 95; 0;42070

9; 784.4; 18-MAR-2010 02:31:07; Dark ; 52.5; 81; Eta Cen ; 2.36; 28000;occ; 105; 0;42070

10; 969.8; 18-MAR-2010 02:34:13; Dark ; 61.5; 54; 5The Cen ; 2.06; 4500;occ; 123; 0;42070

11; 1074.6; 18-MAR-2010 02:35:57; Dark ; 48.0; 123; Tot Cen ; 2.75; 10200;occ; 96; 0;42070

12; 1415.0; 18-MAR-2010 02:41:38; Dark ; 50.0; 106; 9Bet Crv ; 2.65; 5600;occ; 100; 0;42070

13; 1551.2; 18-MAR-2010 02:43:54; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;42070

14; 2208.5; 18-MAR-2010 02:54:51; Bright; 47.0; 62; 94Bet Leo ; 2.14; 9700;occ; 94; 0;42070

15; 2703.6; 18-MAR-2010 03:03:06; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;42070

16; 2896.1; 18-MAR-2010 03:06:19; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;42070

17; 2986.3; 18-MAR-2010 03:07:49; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;42070

18; 3070.2; 18-MAR-2010 03:09:13; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;42070

19; 3407.4; 18-MAR-2010 03:14:50; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42070

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2; -1824.4; 18-MAR-2010 03:28:14; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;42070

3; -1730.0; 18-MAR-2010 03:29:49; Bright; 40.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 80; 0;42070

4; -1625.5; 18-MAR-2010 03:31:33; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;42070

5; -1117.2; 18-MAR-2010 03:40:02; Dark ; 55.0; 11; 53Alp Aql ; 0.76; 8000;occ; 110; 0;42070

6; -496.4; 18-MAR-2010 03:50:22; Dark ; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;42070

7; -372.9; 18-MAR-2010 03:52:26; Dark ; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;42070

8; -283.7; 18-MAR-2010 03:53:55; Dark ; 49.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 98; 0;42070

9; -162.9; 18-MAR-2010 03:55:56; Dark ; 47.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 95; 0;42070

10; 85.0; 18-MAR-2010 04:00:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42071

11; 190.3; 18-MAR-2010 04:01:49; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;42071

12; 573.0; 18-MAR-2010 04:08:12; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;42071

13; 696.4; 18-MAR-2010 04:10:15; Dark ; 47.0; 78; Alp Lup ; 2.30; 28000;occ; 94; 0;42071

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15; 970.8; 18-MAR-2010 04:14:49; Dark ; 57.5; 54; 5The Cen ; 2.06; 4500;occ; 115; 0;42071
16; 1075.3; 18-MAR-2010 04:16:34; Dark ; 48.0; 123; Iot Cen ; 2.75; 10200;occ; 96; 0;42071
17; 1415.3; 18-MAR-2010 04:22:14; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;42071
18; 1551.3; 18-MAR-2010 04:24:30; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;42071
19; 2208.1; 18-MAR-2010 04:35:27; Bright; 47.0; 62; 94Bet Leo ; 2.14; 9700;occ; 94; 0;42071
20; 2703.3; 18-MAR-2010 04:43:42; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;42071
21; 2896.4; 18-MAR-2010 04:46:55; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;42071
22; 2985.9; 18-MAR-2010 04:48:25; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;42071
23; 3069.9; 18-MAR-2010 04:49:49; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;42071
24; 3407.2; 18-MAR-2010 04:55:26; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;42071
25; 3644.9; 18-MAR-2010 04:59:24; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;42071
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3;-1729.5; 18-MAR-2010 05:10:25; Bright; 40.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 80; 0;42071
4;-1625.3; 18-MAR-2010 05:12:09; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;42071
5;-1116.4; 18-MAR-2010 05:20:38; Dark ; 55.0; 11; 53Alp Aql ; 0.76; 8000;occ; 110; 0;42071
6; -495.7; 18-MAR-2010 05:30:59; Dark ; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;42071
7; -372.0; 18-MAR-2010 05:33:03; Dark ; 51.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 103; 0;42071
8; -282.5; 18-MAR-2010 05:34:32; Dark ; 49.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 99; 0;42071
9; -161.8; 18-MAR-2010 05:36:33; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42071
10; 85.7; 18-MAR-2010 05:40:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42072
11; 190.9; 18-MAR-2010 05:42:26; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;42072
12; 573.6; 18-MAR-2010 05:48:48; Dark ; 57.0; 4; Alp1Cen ;-0.01; 5800;occ; 114; 0;42072
13; 697.4; 18-MAR-2010 05:50:52; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;42072
14; 785.8; 18-MAR-2010 05:52:21; Dark ; 51.0; 81; Eta Cen ; 2.36; 28000;occ; 102; 0;42072
15; 971.8; 18-MAR-2010 05:55:27; Dark ; 58.5; 54; 5The Cen ; 2.06; 4500;occ; 117; 0;42072
16; 1075.6; 18-MAR-2010 05:57:10; Dark ; 47.5; 123; Iot Cen ; 2.75; 10200;occ; 95; 0;42072
17; 1415.6; 18-MAR-2010 06:02:50; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;42072
18; 1551.3; 18-MAR-2010 06:05:06; Dark ; 49.5; 100; 4Gam Crv ; 2.58; 13100;occ; 99; 0;42072
19; 2207.8; 18-MAR-2010 06:16:03; Bright; 47.0; 62; 94Bet Leo ; 2.14; 9700;occ; 94; 0;42072
20; 2703.0; 18-MAR-2010 06:24:18; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;42072
21; 2896.1; 18-MAR-2010 06:27:31; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;42072
22; 2985.7; 18-MAR-2010 06:29:00; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;42072
23; 3069.0; 18-MAR-2010 06:30:24; Bright; 47.0; 32; 77Eps UMa ; 1.76; 11000;occ; 94; 0;42072
24; 3406.7; 18-MAR-2010 06:36:01; Bright; 59.0; 60; 7Bet UMi ; 2.08; 3950;occ; 118; 0;42072
25; 3644.3; 18-MAR-2010 06:39:59; Bright; 31.0; 119; 14Eta Dra ; 2.73; 4700;occ; 62; 0;42072
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2; 1080.7; 18-MAR-2010 21:02:39; Dark ; 49.5; 123; Iot Cen ; 2.75; 10200;occ; 99; 0;42081
3; 1417.7; 18-MAR-2010 21:08:16; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;42081
4; 1552.5; 18-MAR-2010 21:10:31; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;42081
5; 2204.4; 18-MAR-2010 21:21:23; Bright; 45.5; 62; 94Bet Leo ; 2.14; 9700;occ; 91; 0;42081
6; 2700.1; 18-MAR-2010 21:29:38; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;42081
7; 2893.4; 18-MAR-2010 21:32:52; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;42081
8; 2983.9; 18-MAR-2010 21:34:22; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;42081
9; 3129.7; 18-MAR-2010 21:36:48; Bright; 47.5; 55; 79Zet UMa ; 2.06; 10200;occ; 95; 0;42081
10; 3403.4; 18-MAR-2010 21:41:22; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;42081
11; 3638.5; 18-MAR-2010 21:45:17; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;42081
12; 4212.0; 18-MAR-2010 21:54:50; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;42081
13; 4306.8; 18-MAR-2010 21:56:25; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;42081
14; 4412.2; 18-MAR-2010 21:58:10; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;42081
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2; -362.9; 18-MAR-2010 22:19:11; Dark ; 45.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 91; 0;42081
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4; 93.2; 18-MAR-2010 22:26:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42082
5; 197.6; 18-MAR-2010 22:28:32; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;42082
6; 416.7; 18-MAR-2010 22:32:11; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;42082
7; 579.0; 18-MAR-2010 22:34:53; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0;42082
8; 705.0; 18-MAR-2010 22:36:59; Dark ; 47.5; 78; Alp Lup ; 2.30; 28000;occ; 95; 0;42082
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11; 1081.1; 18-MAR-2010 22:43:15; Dark ; 50.0; 123; Iot Cen ; 2.75; 10200;occ; 100; 0;42082
12; 1418.1; 18-MAR-2010 22:48:52; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;42082
13; 1552.7; 18-MAR-2010 22:51:07; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;42082

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9; -160.9; 18-MAR-2010 07:17:10; Dark ; 53.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 106; 0;42072  
10; 86.5; 18-MAR-2010 07:21:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42073  
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6; 3405.1; 18-MAR-2010 13:18:23; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;42076
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22; 6481.7; 22-MAR-2010 20:26:12; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;42137  
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13; 4309.8; 22-MAR-2010 21:30:36; Bright; 39.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 78; 0;42138  
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7; 446.7; 22-MAR-2010 23:47:25; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;42140  
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16; 2685.2; 23-MAR-2010 00:24:43; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;42140  
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23; 4309.8; 23-MAR-2010 00:51:48; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;42140  
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6; 237.8; 22-MAR-2010 22:03:20; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;42139  
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6; 239.0; 23-MAR-2010 01:24:33; Dark ; 51.5; 141; Bet Ara ; 2.84; 4600;occ; 103; 0;42141  
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38; 7596.5; 23-MAR-2010 03:27:10; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;42142  
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8; 2266.0; 23-MAR-2010 20:24:55; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;42152  
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7; -193.3; 23-MAR-2010 07:59:44; Dark ; 57.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 115; 0;42144  
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13; 753.3; 23-MAR-2010 08:15:31; Dark ; 49.0; 78; Alp Lup ; 2.30; 28000;occ; 98; 0;42145  
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9; 4310.1; 23-MAR-2010 09:14:48; Bright; 58.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 116; 0;42145  
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12; 5608.8; 23-MAR-2010 09:36:26; Dark ; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;42145  
13; 5737.0; 23-MAR-2010 09:38:35; Dark ; 50.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 101; 0;42145  
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15; 5951.8; 23-MAR-2010 09:42:09; Dark ; 54.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 108; 0;42145  
16; 6177.9; 23-MAR-2010 09:45:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42146  
17; 6278.6; 23-MAR-2010 09:47:36; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;42146  
18; 6485.7; 23-MAR-2010 09:51:03; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42146  
19; 6648.7; 23-MAR-2010 09:53:46; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;42146  
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7; 3380.6; 23-MAR-2010 10:39:54; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;42146  
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9; 3905.4; 23-MAR-2010 10:48:39; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;42146  
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12; 4420.2; 23-MAR-2010 10:57:14; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;42146  
13; 4956.8; 23-MAR-2010 11:06:10; Dark ; 55.0; 11; 53Alp Aql ; 0.76; 8000;occ; 110; 0;42146  
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17; 2679.3; 24-MAR-2010 23:21:23; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;42168
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2; 978.2; 24-MAR-2010 19:31:50; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;42166
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4; 1437.9; 24-MAR-2010 19:39:30; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;42166
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7; 2178.6; 24-MAR-2010 19:51:51; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;42166
8; 2263.9; 24-MAR-2010 19:53:16; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;42166

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11;	2968.7;	24-MAR-2010	20:05:01;	Bright;	37.5;	36;	50Alp	UMA	;	1.80;	6300;	occ;	75;	0;	42166	
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13;	3373.5;	24-MAR-2010	20:11:46;	Bright;	42.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	85;	0;	42166	
14;	3583.4;	24-MAR-2010	20:15:16;	Bright;	47.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	94;	0;	42166	
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16;	4214.4;	24-MAR-2010	20:25:46;	Bright;	40.5;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	81;	0;	42166	
17;	4310.6;	24-MAR-2010	20:27:23;	Bright;	43.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	86;	0;	42166	
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22;	5872.1;	24-MAR-2010	20:53:24;	Dark	;	55.5;	137;	22Lam	Sgr	;	2.82;	4400;	occ;	111;	0;	42166
23;	5975.2;	24-MAR-2010	20:55:07;	Dark	;	51.5;	38;	20Eps	Sgr	;	1.84;	11000;	occ;	103;	0;	42166
24;	6182.2;	24-MAR-2010	20:58:34;	Dark	;	48.5;	85;	Kap	Sco	;	2.41;	28000;	occ;	97;	0;	42167
25;	6293.5;	24-MAR-2010	21:00:26;	Dark	;	43.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	87;	0;	42167
26;	6497.0;	24-MAR-2010	21:03:49;	Dark	;	40.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	80;	0;	42167
27;	6659.7;	24-MAR-2010	21:06:32;	Dark	;	54.5;	4;	Alp1Cen		;	-0.01;	5800;	occ;	109;	0;	42167
28;	6805.2;	24-MAR-2010	21:08:57;	Dark	;	45.5;	78;	Alp	Lup	;	2.30;	28000;	occ;	91;	0;	42167
29;	6898.9;	24-MAR-2010	21:10:31;	Dark	;	49.5;	81;	Eta	Cen	;	2.36;	28000;	occ;	99;	0;	42167
30;	7014.5;	24-MAR-2010	21:12:27;	Dark	;	39.0;	64;	Gam	Cen	;	2.20;	10600;	occ;	78;	0;	42167

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2;	-274.1;	25-MAR-2010	00:12:46;	Dark	;	49.5;	57;	34Sig	Sgr	;	2.07;	26000;	occ;	99;	0;	42168
3;	-161.1;	25-MAR-2010	00:14:39;	Dark	;	57.0;	137;	22Lam	Sgr	;	2.82;	4400;	occ;	114;	0;	42168
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7;	462.1;	25-MAR-2010	00:25:02;	Dark	;	39.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	79;	0;	42169
8;	624.7;	25-MAR-2010	00:27:44;	Dark	;	55.5;	4;	Alp1Cen		;	-0.01;	5800;	occ;	111;	0;	42169
9;	770.5;	25-MAR-2010	00:30:10;	Dark	;	46.5;	78;	Alp	Lup	;	2.30;	28000;	occ;	93;	0;	42169
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14;	1564.1;	25-MAR-2010	00:43:24;	Dark	;	47.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	94;	0;	42169
15;	1900.8;	25-MAR-2010	00:49:01;	Bright;	;	52.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	105;	0;	42169
16;	2177.9;	25-MAR-2010	00:53:38;	Bright;	;	39.5;	62;	94Bet	Leo	;	2.14;	9700;	occ;	79;	0;	42169
17;	2263.3;	25-MAR-2010	00:55:03;	Bright;	;	39.5;	96;	68Del	Leo	;	2.56;	9300;	occ;	79;	0;	42169
18;	2679.1;	25-MAR-2010	01:01:59;	Bright;	;	38.0;	174;	52Psi	UMA	;	3.00;	4400;	occ;	76;	0;	42169
19;	2877.0;	25-MAR-2010	01:05:17;	Bright;	;	35.5;	82;	48Bet	UMA	;	2.37;	10600;	occ;	71;	0;	42169
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21;	3064.5;	25-MAR-2010	01:08:24;	Bright;	;	45.0;	55;	79Zet	UMA	;	2.06;	10200;	occ;	90;	0;	42169
22;	3372.4;	25-MAR-2010	01:13:32;	Bright;	;	39.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	79;	0;	42169
23;	3581.6;	25-MAR-2010	01:17:01;	Bright;	;	47.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	94;	0;	42169
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25;	4214.4;	25-MAR-2010	01:27:34;	Bright;	;	37.5;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	75;	0;	42169
26;	4311.0;	25-MAR-2010	01:29:11;	Bright;	;	39.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	78;	0;	42169
27;	4422.9;	25-MAR-2010	01:31:03;	Bright;	;	36.0;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	72;	0;	42169
28;	4969.9;	25-MAR-2010	01:40:10;	Dark	;	56.5;	11;	53Alp	Aql	;	0.76;	8000;	occ;	113;	0;	42169

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3;	-159.6;	25-MAR-2010	01:55:16;	Dark	;	61.0;	137;	22Lam	Sgr	;	2.82;	4400;	occ;	122;	0;	42169
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7;	462.6;	25-MAR-2010	02:05:38;	Dark	;	39.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	78;	0;	42170
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9;	771.6;	25-MAR-2010	02:10:47;	Dark	;	46.5;	78;	Alp	Lup	;	2.30;	28000;	occ;	93;	0;	42170
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14;	1564.4;	25-MAR-2010	02:24:00;	Dark	;	46.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	92;	0;	42170
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4; 2678.4; 25-MAR-2010 09:24:58; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;42174

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27;	7601.3;	25-MAR-2010	12:27:37;	Dark	;	44.5;	100;	4Gam	Crv	;	2.58;	13100;	occ;	89;	0;	42176
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7;	3370.4;	25-MAR-2010	12:57:42;	Bright;	40.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	81;	0;	42176	
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9;	3905.3;	25-MAR-2010	13:06:36;	Bright;	37.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	75;	0;	42176	
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14;	5651.1;	25-MAR-2010	13:35:42;	Dark	;	59.5;	0;	;	;	0.00;	0;	occ;	119;	0;	42176	
15;	5770.9;	25-MAR-2010	13:37:42;	Dark	;	55.0;	57;	34Sig	Sgr	;	2.07;	26000;	occ;	110;	0;	42176
16;	5886.3;	25-MAR-2010	13:39:37;	Dark	;	61.5;	137;	22Lam	Sgr	;	2.82;	4400;	occ;	123;	0;	42176

17; 5986.7; 25-MAR-2010 13:41:18; Dark ; 50.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 100; 0;42176  
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19; 6300.9; 25-MAR-2010 13:46:32; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;42177  
20; 6502.4; 25-MAR-2010 13:49:54; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;42177  
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22; 6812.4; 25-MAR-2010 13:55:04; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;42177  
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19; 5887.7; 25-MAR-2010 15:20:15; Dark ; 58.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 117; 0;42177  
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7; 2875.7; 25-MAR-2010 16:10:39; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;42178  
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9; 3058.5; 25-MAR-2010 16:13:41; Bright; 46.0; 55; 79Zet UMa ; 2.06; 10200;occ; 92; 0;42178  
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13; 4214.8; 25-MAR-2010 16:32:58; Bright; 40.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 80; 0;42178  
14; 4311.5; 25-MAR-2010 16:34:35; Bright; 43.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 86; 0;42178  
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13; 1566.0; 25-MAR-2010 22:31:13; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;42182
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23;	7933.0;	26-MAR-2010	05:19:07;	Bright;	;	50.0;	121;	29Gam Vir	;	2.74;	7200;occ;	100;	0;	42186
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27;	8910.8;	26-MAR-2010	05:35:25;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	42186
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13;	3363.5;	26-MAR-2010	20:48:57;	Bright;	;	37.0;	60;	7Bet UMi	;	2.08;	3950;occ;	74;	0;	42195
14;	3905.2;	26-MAR-2010	20:57:59;	Bright;	;	37.0;	89;	5Alp Cep	;	2.45;	8000;occ;	74;	0;	42195
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16;	4312.0;	26-MAR-2010	21:04:46;	Bright;	;	42.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	85;	0;	42195
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9;	1137.3;	26-MAR-2010	21:52:27;	Dark	;	44.0;	123;	Iot Cen	;	2.75;	10200;occ;	88;	0;	42196
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11;	1567.8;	26-MAR-2010	21:59:38;	Dark	;	43.5;	100;	4Gam Crv	;	2.58;	13100;occ;	87;	0;	42196
12;	1895.0;	26-MAR-2010	22:05:05;	Bright;	;	48.0;	121;	29Gam Vir	;	2.74;	7200;occ;	96;	0;	42196
13;	2172.2;	26-MAR-2010	22:09:42;	Bright;	;	40.5;	62;	94Bet Leo	;	2.14;	9700;occ;	81;	0;	42196
14;	2260.7;	26-MAR-2010	22:11:11;	Bright;	;	37.5;	96;	68Del Leo	;	2.56;	9300;occ;	75;	0;	42196
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22; 7491.3; 30-MAR-2010 11:28:17; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;42247  
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3; 2257.5; 30-MAR-2010 11:41:39; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;42247  
4; 2668.1; 30-MAR-2010 11:48:30; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;42247  
5; 2854.2; 30-MAR-2010 11:51:36; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42247  
6; 2959.6; 30-MAR-2010 11:53:22; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42247  
7; 3345.7; 30-MAR-2010 11:59:48; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;42247  
8; 3903.1; 30-MAR-2010 12:09:05; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;42247  
9; 4202.6; 30-MAR-2010 12:14:05; Bright; 44.0; 144; 18Del Cyg ; 2.86; 11000;occ; 88; 0;42247  
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14; 5857.1; 30-MAR-2010 12:41:39; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;42247  
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3; 2163.3; 30-MAR-2010 13:20:41; Bright; 40.0; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;42248  
4; 2257.4; 30-MAR-2010 13:22:15; Bright; 36.5; 96; 68Del Leo ; 2.56; 9300;occ; 73; 0;42248  
5; 2668.1; 30-MAR-2010 13:29:06; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;42248  
6; 2854.2; 30-MAR-2010 13:32:12; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;42248  
7; 2959.6; 30-MAR-2010 13:33:57; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42248  
8; 3345.6; 30-MAR-2010 13:40:23; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42248  
9; 3903.2; 30-MAR-2010 13:49:41; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;42248  
10; 4202.6; 30-MAR-2010 13:54:40; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;42248  
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12; 4432.0; 30-MAR-2010 13:58:30; Bright; 59.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 118; 0;42248  
13; 5022.8; 30-MAR-2010 14:08:21; Dark ; 26.0; 11; 53Alp Aql ; 0.76; 8000;occ; 52; 0;42248  
14; 5703.8; 30-MAR-2010 14:19:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42248  
15; 5858.6; 30-MAR-2010 14:22:16; Dark ; 54.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 109; 0;42248  
16; 6074.3; 30-MAR-2010 14:25:52; Dark ; 52.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 105; 0;42249  
17; 6324.9; 30-MAR-2010 14:30:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;42249  
18; 6540.5; 30-MAR-2010 14:33:38; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;42249  
19; 6699.7; 30-MAR-2010 14:36:18; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;42249  
20; 6860.8; 30-MAR-2010 14:38:59; Dark ; 49.0; 78; Alp Lup ; 2.30; 28000;occ; 98; 0;42249  
21; 6956.7; 30-MAR-2010 14:40:35; Dark ; 47.0; 81; Eta Cen ; 2.36; 28000;occ; 94; 0;42249  
22; 7123.6; 30-MAR-2010 14:43:21; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;42249  
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3; 1885.9; 30-MAR-2010 14:56:40; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;42249  
4; 2163.4; 30-MAR-2010 15:01:17; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;42249  
5; 2257.6; 30-MAR-2010 15:02:51; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;42249  
6; 2668.1; 30-MAR-2010 15:09:42; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;42249

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8; 2959.5; 30-MAR-2010 15:14:33; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42249  
9; 3345.5; 30-MAR-2010 15:20:59; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;42249  
10; 3903.4; 30-MAR-2010 15:30:17; Bright; 54.0; 89; 5Alp Cep ; 2.45; 8000;occ; 108; 0;42249  
11; 4202.5; 30-MAR-2010 15:35:16; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;42249  
12; 4312.9; 30-MAR-2010 15:37:07; Bright; 47.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 95; 0;42249  
13; 4432.2; 30-MAR-2010 15:39:06; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;42249  
14; 5023.2; 30-MAR-2010 15:48:57; Dark ; 26.0; 11; 53Alp Aql ; 0.76; 8000;occ; 52; 0;42249  
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16; 5859.7; 30-MAR-2010 16:02:53; Dark ; 55.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 111; 0;42249  
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21; 6861.5; 30-MAR-2010 16:19:35; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;42250  
22; 6957.6; 30-MAR-2010 16:21:11; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;42250  
23; 7124.1; 30-MAR-2010 16:23:58; Dark ; 38.5; 54; 5The Cen ; 2.06; 4500;occ; 77; 0;42250

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3; 1575.1; 30-MAR-2010 16:32:05; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;42250  
4; 1885.8; 30-MAR-2010 16:37:16; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;42250  
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6; 2257.6; 30-MAR-2010 16:43:27; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;42250  
7; 2668.0; 30-MAR-2010 16:50:18; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;42250  
8; 2853.6; 30-MAR-2010 16:53:23; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42250  
9; 2959.5; 30-MAR-2010 16:55:09; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;42250  
10; 3345.1; 30-MAR-2010 17:01:35; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;42250  
11; 3903.3; 30-MAR-2010 17:10:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;42250  
12; 4202.4; 30-MAR-2010 17:15:52; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;42250  
13; 4312.8; 30-MAR-2010 17:17:42; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42250  
14; 4432.2; 30-MAR-2010 17:19:42; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;42250  
15; 5705.4; 30-MAR-2010 17:40:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42250  
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19; 6701.1; 30-MAR-2010 17:57:31; Dark ; 55.0; 4; Alp1Cen ;-0.01; 5800;occ; 110; 0;42251  
20; 6862.2; 30-MAR-2010 18:00:12; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;42251  
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5; 2162.9; 30-MAR-2010 18:22:29; Bright; 40.0; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;42251  
6; 2257.5; 30-MAR-2010 18:24:03; Bright; 36.5; 96; 68Del Leo ; 2.56; 9300;occ; 73; 0;42251  
7; 2668.0; 30-MAR-2010 18:30:54; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;42251  
8; 2853.4; 30-MAR-2010 18:33:59; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42251  
9; 2959.3; 30-MAR-2010 18:35:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;42251  
10; 3344.6; 30-MAR-2010 18:42:10; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;42251  
11; 3903.0; 30-MAR-2010 18:51:29; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;42251  
12; 4202.1; 30-MAR-2010 18:56:28; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;42251  
13; 4312.8; 30-MAR-2010 18:58:18; Bright; 42.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 85; 0;42251  
14; 4432.0; 30-MAR-2010 19:00:18; Bright; 59.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 118; 0;42251  
15; 5706.2; 30-MAR-2010 19:21:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42251  
16; 5862.5; 30-MAR-2010 19:24:08; Dark ; 53.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 107; 0;42251  
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3; 45.8; 31-MAR-2010 00:29:35; Dark ; 52.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 105; 0;42255  
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5; 507.4; 31-MAR-2010 00:37:17; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;42255

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9; 1090.7; 31-MAR-2010 00:47:00; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;42255  
10; 1456.6; 31-MAR-2010 00:53:06; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;42255  
11; 1575.6; 31-MAR-2010 00:55:05; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;42255  
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13; 2162.4; 31-MAR-2010 01:04:52; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;42255  
14; 2257.4; 31-MAR-2010 01:06:27; Bright; 36.5; 96; 68Del Leo ; 2.56; 9300;occ; 73; 0;42255  
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16; 2852.2; 31-MAR-2010 01:16:21; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42255  
17; 2958.8; 31-MAR-2010 01:18:08; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;42255  
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19; 3902.8; 31-MAR-2010 01:33:52; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;42255  
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3; 46.9; 31-MAR-2010 02:10:12; Dark ; 53.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 106; 0;42256  
4; 298.8; 31-MAR-2010 02:14:24; Dark ; 30.0; 25; 35Lam Sco ; 1.62; 28000;occ; 60; 0;42256  
5; 508.0; 31-MAR-2010 02:17:53; Dark ; 41.5; 134; Bet TrA ; 2.81; 6600;occ; 83; 0;42256  
6; 667.1; 31-MAR-2010 02:20:32; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;42256  
7; 829.5; 31-MAR-2010 02:23:15; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;42256  
8; 925.8; 31-MAR-2010 02:24:51; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;42256  
9; 1091.3; 31-MAR-2010 02:27:36; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;42256  
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13; 2162.2; 31-MAR-2010 02:45:27; Bright; 40.0; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;42256  
14; 2257.3; 31-MAR-2010 02:47:02; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;42256  
15; 2667.3; 31-MAR-2010 02:53:52; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;42256  
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7; 49.6; 31-MAR-2010 05:31:27; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;42258  
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9;	509.1;	31-MAR-2010	05:39:06;	Dark	;	40.0;	134;	Bet TrA	;	2.81;	6600;occ;	80;	0;42258
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11;	830.6;	31-MAR-2010	05:44:28;	Dark	;	46.5;	78;	Alp Lup	;	2.30;	28000;occ;	93;	0;42258
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13;	1092.4;	31-MAR-2010	05:48:49;	Dark	;	53.5;	54;	5The Cen	;	2.06;	4500;occ;	107;	0;42258
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22;	3342.6;	31-MAR-2010	06:26:20;	Bright;		50.5;	60;	7Bet UMi	;	2.08;	3950;occ;	101;	0;42258
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2;	1459.1;	31-MAR-2010	21:00:20;	Dark	;	47.0;	106;	9Bet Crv	;	2.65;	5600;occ;	94;	0;42267
3;	1577.6;	31-MAR-2010	21:02:18;	Dark	;	44.5;	100;	4Gam Crv	;	2.58;	13100;occ;	89;	0;42267
4;	1883.8;	31-MAR-2010	21:07:24;	Bright;		44.5;	121;	29Gam Vir	;	2.74;	7200;occ;	89;	0;42267
5;	2161.3;	31-MAR-2010	21:12:02;	Bright;		40.0;	62;	94Bet Leo	;	2.14;	9700;occ;	80;	0;42267
6;	2256.9;	31-MAR-2010	21:13:37;	Bright;		36.5;	96;	68Del Leo	;	2.56;	9300;occ;	73;	0;42267
7;	2666.6;	31-MAR-2010	21:20:27;	Bright;		36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	0;42267
8;	2849.3;	31-MAR-2010	21:23:30;	Bright;		38.5;	87;	64Gam UMa	;	2.43;	11000;occ;	77;	0;42267
9;	2958.1;	31-MAR-2010	21:25:19;	Bright;		38.5;	36;	50Alp UMa	;	1.80;	6300;occ;	77;	0;42267
10;	3339.1;	31-MAR-2010	21:31:40;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;42267
11;	3902.4;	31-MAR-2010	21:41:03;	Bright;		37.0;	89;	5Alp Cep	;	2.45;	8000;occ;	74;	0;42267
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13;	4312.6;	31-MAR-2010	21:47:53;	Bright;		45.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	90;	0;42267
14;	4433.8;	31-MAR-2010	21:49:54;	Bright;		42.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	85;	0;42267
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3;	62.5;	31-MAR-2010	22:17:39;	Dark	;	54.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	109;	0;42268
4;	291.2;	31-MAR-2010	22:21:28;	Dark	;	52.0;	40;	The Sco	;	1.86;	7100;occ;	104;	0;42268
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7;	836.9;	31-MAR-2010	22:30:33;	Dark	;	45.0;	78;	Alp Lup	;	2.30;	28000;occ;	90;	0;42268
8;	933.2;	31-MAR-2010	22:32:10;	Dark	;	50.5;	81;	Eta Cen	;	2.36;	28000;occ;	101;	0;42268
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10;	1459.5;	31-MAR-2010	22:40:56;	Dark	;	45.5;	106;	9Bet Crv	;	2.65;	5600;occ;	91;	0;42268
11;	1577.6;	31-MAR-2010	22:42:54;	Dark	;	44.5;	100;	4Gam Crv	;	2.58;	13100;occ;	89;	0;42268
12;	1883.6;	31-MAR-2010	22:48:00;	Bright;		44.0;	121;	29Gam Vir	;	2.74;	7200;occ;	88;	0;42268
13;	2161.0;	31-MAR-2010	22:52:37;	Bright;		40.0;	62;	94Bet Leo	;	2.14;	9700;occ;	80;	0;42268
14;	2257.0;	31-MAR-2010	22:54:13;	Bright;		36.5;	96;	68Del Leo	;	2.56;	9300;occ;	73;	0;42268
15;	2666.5;	31-MAR-2010	23:01:03;	Bright;		36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	0;42268
16;	2849.0;	31-MAR-2010	23:04:05;	Bright;		39.0;	87;	64Gam UMa	;	2.43;	11000;occ;	78;	0;42268
17;	2958.1;	31-MAR-2010	23:05:54;	Bright;		35.5;	36;	50Alp UMa	;	1.80;	6300;occ;	71;	0;42268
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20;	4199.8;	31-MAR-2010	23:26:36;	Bright;		45.0;	144;	18Del Cyg	;	2.86;	11000;occ;	90;	0;42268
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3;	64.0;	31-MAR-2010	23:58:16;	Dark	;	54.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	109;	0;42269
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7;	837.6;	01-APR-2010	00:11:10;	Dark	;	44.5;	78;	Alp Lup	;	2.30;	28000;occ;	89;	0;42269
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