

# GOMOS Daily Report 25-APR-2008

## Level 0 and Level 1 products

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

Item	Value
Time of report generation	28APR2008 11:57:39
Data source version	GOMOS/5.00
Start time of products	25-04-2008 (25APR2008 00:00:00)
Stop time of products	26-04-2008 (26APR2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

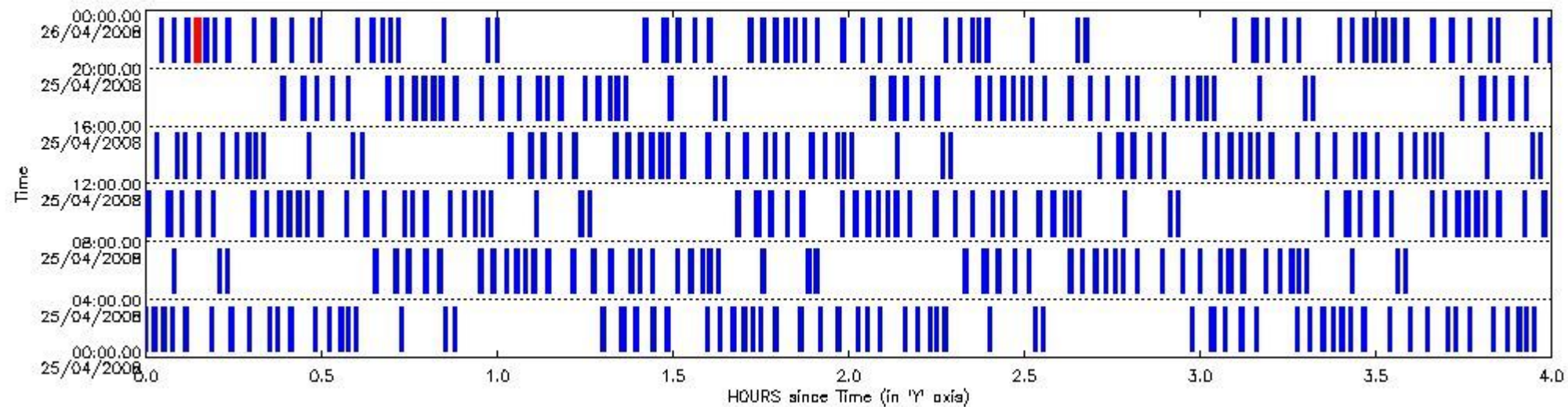
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

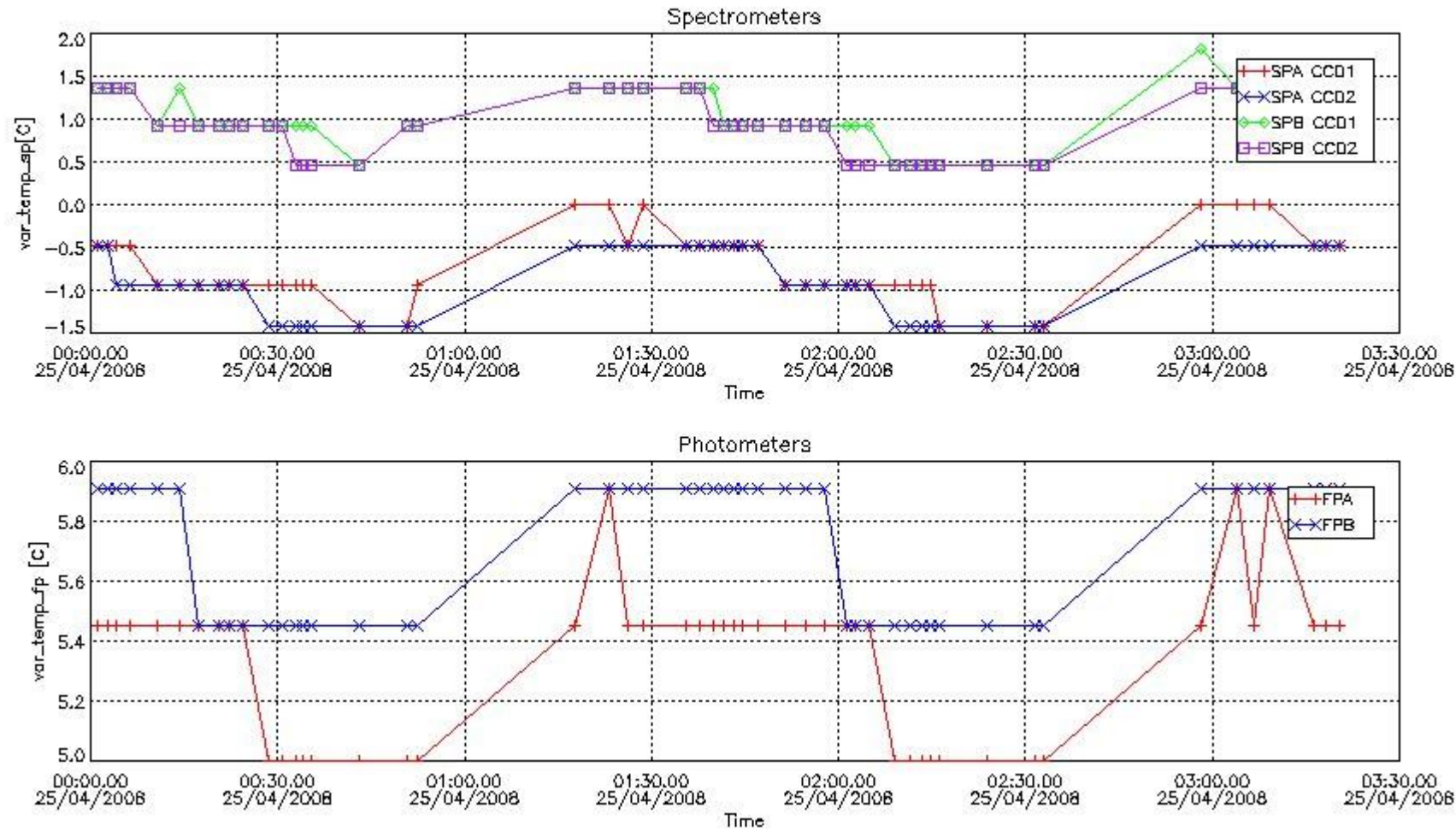
UTC start time	Star name	Star ID	Orbit
25-APR-2008 20:08:17	BetCru	20	32175

### 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_1PNPDE20080425_000105_000000412068_00045_32163_6162.N1	25-APR-2008 00:01:05	Straylight	40.500	20	Bet Cru	1.2530	30000.	81	32163	No
2	GOM_TRA_1PNPDE20080425_000239_000000402068_00045_32163_6163.N1	25-APR-2008 00:02:39	Straylight	40.000	78	Alp Lup	2.3040	28000.	80	32163	No
3	GOM_TRA_1PNPDE20080425_000404_000000382068_00045_32163_6164.N1	25-APR-2008 00:04:04	Straylight	38.000	64	Gam Cen	2.2000	10600.	76	32163	No
4	GOM_TRA_1PNPDE20080425_000623_000000452068_00045_32163_6165.N1	25-APR-2008 00:06:23	Straylight	45.000	54	5The Cen	2.0550	4500.0	90	32163	No
5	GOM_TRA_1PNPDE20080425_001048_000000422068_00045_32163_6166.N1	25-APR-2008 00:10:48	Twilight_stray	41.500	169	46Gam Hya	2.9910	4700.0	83	32163	No
6	GOM_TRA_1PNPDE20080425_001412_000000392068_00045_32163_6167.N1	25-APR-2008 00:14:12	Bright	39.000	15	67Alp Vir	0.97600	28000.	78	32163	No
7	GOM_TRA_1PNPDE20080425_001714_000000372068_00045_32163_6168.N1	25-APR-2008 00:17:14	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	32163	No
8	GOM_TRA_1PNPDE20080425_002042_000000362068_00045_32163_6169.N1	25-APR-2008 00:20:42	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	32163	No
9	GOM_TRA_1PNPDE20080425_002211_000000352068_00045_32163_6170.N1	25-APR-2008 00:22:11	Bright	35.000	62	94Bet Leo	2.1360	9700.0	70	32163	No
10	GOM_TRA_1PNPDE20080425_002423_000000362068_00045_32163_6171.N1	25-APR-2008 00:24:23	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	32163	No

11	GOM_TRA_1PNPDE20080425_002833_000000352068_00045_32163_6172.N1	25-APR-2008 00:28:33	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	32163	No
12	GOM_TRA_1PNPDE20080425_003051_000000362068_00045_32163_6173.N1	25-APR-2008 00:30:51	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	32163	No
13	GOM_TRA_1PNPDE20080425_003252_000000522068_00045_32163_6174.N1	25-APR-2008 00:32:52	Bright	52.000	87	64Gam UMa	2.4330	11000.	104	32163	No
14	GOM_TRA_1PNPDE20080425_003405_000000372068_00045_32163_6175.N1	25-APR-2008 00:34:05	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	32163	No
15	GOM_TRA_1PNPDE20080425_003528_000000372068_00045_32163_6176.N1	25-APR-2008 00:35:28	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	32163	No
16	GOM_TRA_1PNPDE20080425_004313_000000332068_00045_32163_6177.N1	25-APR-2008 00:43:13	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	32163	No
17	GOM_TRA_1PNPDE20080425_005053_000000352068_00045_32163_6178.N1	25-APR-2008 00:50:53	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	32163	No
18	GOM_TRA_1PNPDE20080425_005220_000000332068_00045_32163_6179.N1	25-APR-2008 00:52:20	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	32163	No
19	GOM_TRA_1PNPDE20080425_011736_000000412068_00045_32163_6307.N1	25-APR-2008 01:17:36	Dark	41.000	18	24Alp PsA	1.1660	9700.0	82	32163	No
20	GOM_TRA_1PNPDE20080425_012315_000000422068_00045_32163_6308.N1	25-APR-2008 01:23:15	Dark	42.000	31	Alp Gru	1.7340	15200.	84	32163	No
21	GOM_TRA_1PNPDE20080425_012608_000000422068_00045_32163_6309.N1	25-APR-2008 01:26:08	Dark	42.000	148	Alp Tuc	2.8780	4100.0	84	32163	No
22	GOM_TRA_1PNPDE20080425_012835_000000402068_00046_32164_6310.N1	25-APR-2008 01:28:35	Dark	40.000	45	Alp Pav	1.9400	26000.	80	32164	No
23	GOM_TRA_1PNPDE20080425_013532_000000382068_00046_32164_6311.N1	25-APR-2008 01:35:32	Dark	38.000	43	Alp TrA	1.9100	4250.0	76	32164	No
24	GOM_TRA_1PNPDE20080425_013743_000000382068_00046_32164_6312.N1	25-APR-2008 01:37:43	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	32164	No
25	GOM_TRA_1PNPDE20080425_013954_000000432068_00046_32164_6313.N1	25-APR-2008 01:39:54	Straylight	43.000	4	Alp1Cen	-0.010000	5800.0	86	32164	No
26	GOM_TRA_1PNPDE20080425_014141_000000422068_00046_32164_6314.N1	25-APR-2008 01:41:41	Straylight	41.500	20	Bet Cru	1.2530	30000.	83	32164	No
27	GOM_TRA_1PNPDE20080425_014315_000000382068_00046_32164_6315.N1	25-APR-2008 01:43:15	Straylight	38.000	78	Alp Lup	2.3040	28000.	76	32164	No
28	GOM_TRA_1PNPDE20080425_014440_000000382068_00046_32164_6316.N1	25-APR-2008 01:44:40	Straylight	38.000	64	Gam Cen	2.2000	10600.	76	32164	No
29	GOM_TRA_1PNPDE20080425_014659_000000462068_00046_32164_6317.N1	25-APR-2008 01:46:59	Straylight	46.000	54	5The Cen	2.0550	4500.0	92	32164	No
30	GOM_TRA_1PNPDE20080425_015124_000000402068_00046_32164_6318.N1	25-APR-2008 01:51:24	Tw_i_and_stray	39.500	169	46Gam Hya	2.9910	4700.0	79	32164	No
31	GOM_TRA_1PNPDE20080425_015448_000000402068_00046_32164_6319.N1	25-APR-2008 01:54:48	Bright	40.000	15	67Alp Vir	0.97600	28000.	80	32164	No
32	GOM_TRA_1PNPDE20080425_015750_000000362068_00046_32164_6320.N1	25-APR-2008 01:57:50	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	32164	No
33	GOM_TRA_1PNPDE20080425_020118_000000372068_00046_32164_6321.N1	25-APR-2008 02:01:18	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	32164	No
34	GOM_TRA_1PNPDE20080425_020247_000000352068_00046_32164_6322.N1	25-APR-2008 02:02:47	Bright	35.000	62	94Bet Leo	2.1360	9700.0	70	32164	No
35	GOM_TRA_1PNPDE20080425_020459_000000352068_00046_32164_6323.N1	25-APR-2008 02:04:59	Bright	35.000	96	68Del Leo	2.5600	9300.0	70	32164	No
36	GOM_TRA_1PNPDE20080425_020909_000000362068_00046_32164_6324.N1	25-APR-2008 02:09:09	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	32164	No
37	GOM_TRA_1PNPDE20080425_021127_000000362068_00046_32164_6325.N1	25-APR-2008 02:11:27	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	32164	No
38	GOM_TRA_1PNPDE20080425_021328_000000342068_00046_32164_6326.N1	25-APR-2008 02:13:28	Bright	34.000	87	64Gam UMa	2.4330	11000.	68	32164	No
39	GOM_TRA_1PNPDE20080425_021441_000000372068_00046_32164_6327.N1	25-APR-2008 02:14:41	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	32164	No
40	GOM_TRA_1PNPDE20080425_021604_000000372068_00046_32164_6328.N1	25-APR-2008 02:16:04	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	32164	No
41	GOM_TRA_1PNPDE20080425_022349_000000342068_00046_32164_6329.N1	25-APR-2008 02:23:49	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	32164	No
42	GOM_TRA_1PNPDE20080425_023129_000000332068_00046_32164_6458.N1	25-APR-2008 02:31:29	Bright	32.500	110	37Del Cas	2.6780	8900.0	65	32164	No
43	GOM_TRA_1PNPDE20080425_023256_000000342068_00046_32164_6459.N1	25-APR-2008 02:32:56	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	32164	No
44	GOM_TRA_1PNPDE20080425_025812_000000462068_00046_32164_6460.N1	25-APR-2008 02:58:12	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	32164	No
45	GOM_TRA_1PNPDE20080425_030352_000000412068_00046_32164_6461.N1	25-APR-2008 03:03:52	Dark	41.000	31	Alp Gru	1.7340	15200.	82	32164	No
46	GOM_TRA_1PNPDE20080425_030644_000000382068_00046_32164_6462.N1	25-APR-2008 03:06:44	Dark	37.500	148	Alp Tuc	2.8780	4100.0	75	32164	No
47	GOM_TRA_1PNPDE20080425_030912_000000402068_00047_32165_6463.N1	25-APR-2008 03:09:12	Dark	39.500	45	Alp Pav	1.9400	26000.	79	32165	No
48	GOM_TRA_1PNPDE20080425_031608_000000402068_00047_32165_6464.N1	25-APR-2008 03:16:08	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	32165	No
49	GOM_TRA_1PNPDE20080425_031819_000000382068_00047_32165_6465.N1	25-APR-2008 03:18:19	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	32165	No
50	GOM_TRA_1PNPDE20080425_032030_000000512068_00047_32165_6466.N1	25-APR-2008 03:20:30	Straylight	51.000	4	Alp1Cen	-0.010000	5800.0	102	32165	No

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



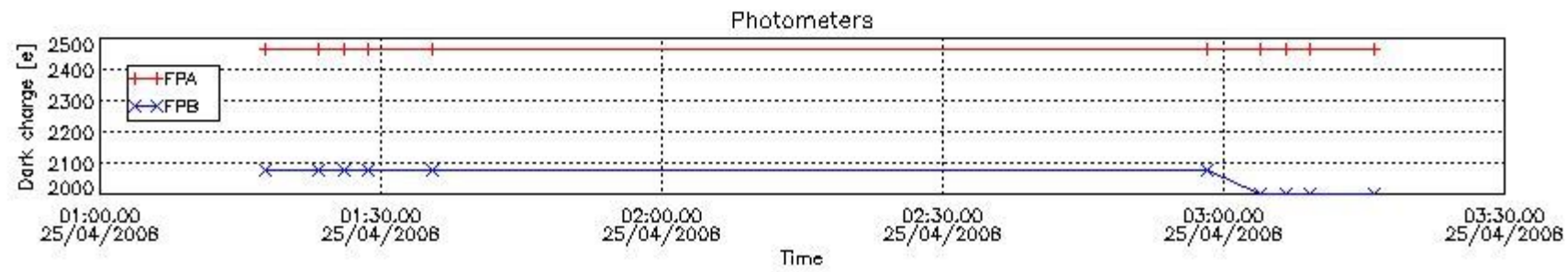
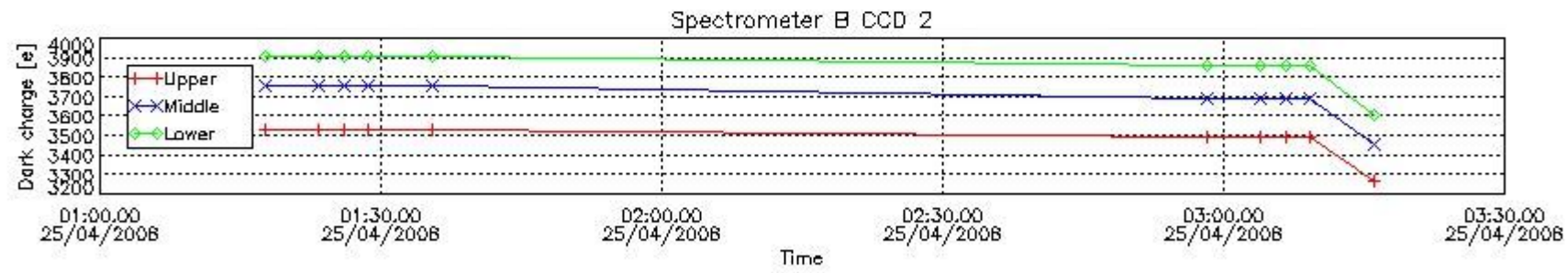
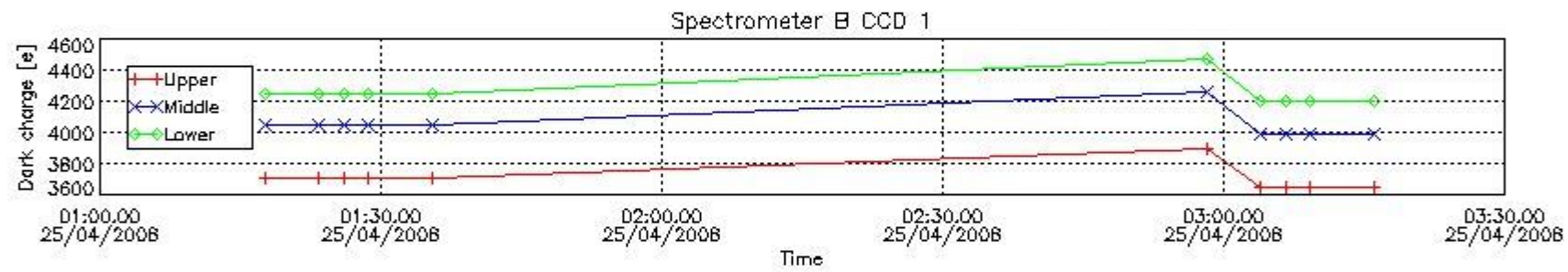
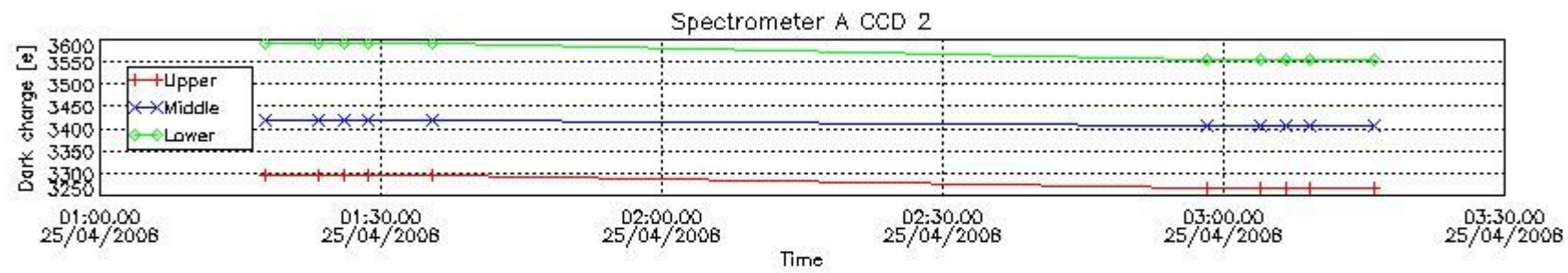
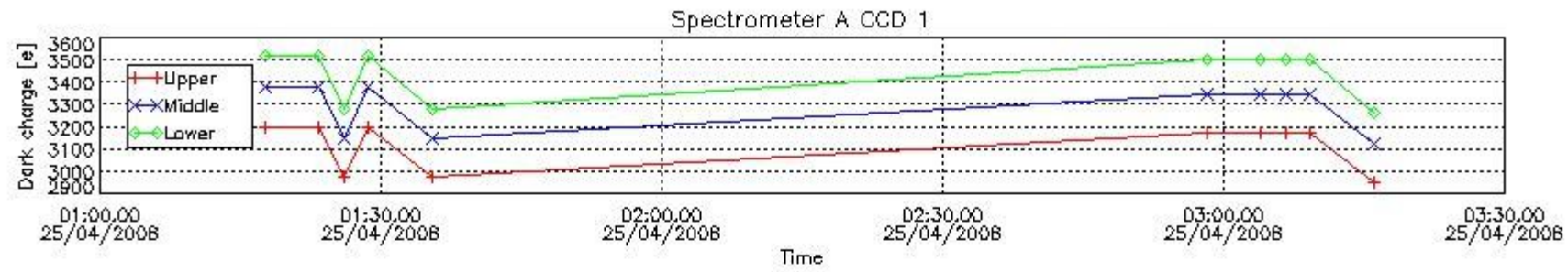
#### 4. Overview of dark signal processing per product

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

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

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

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



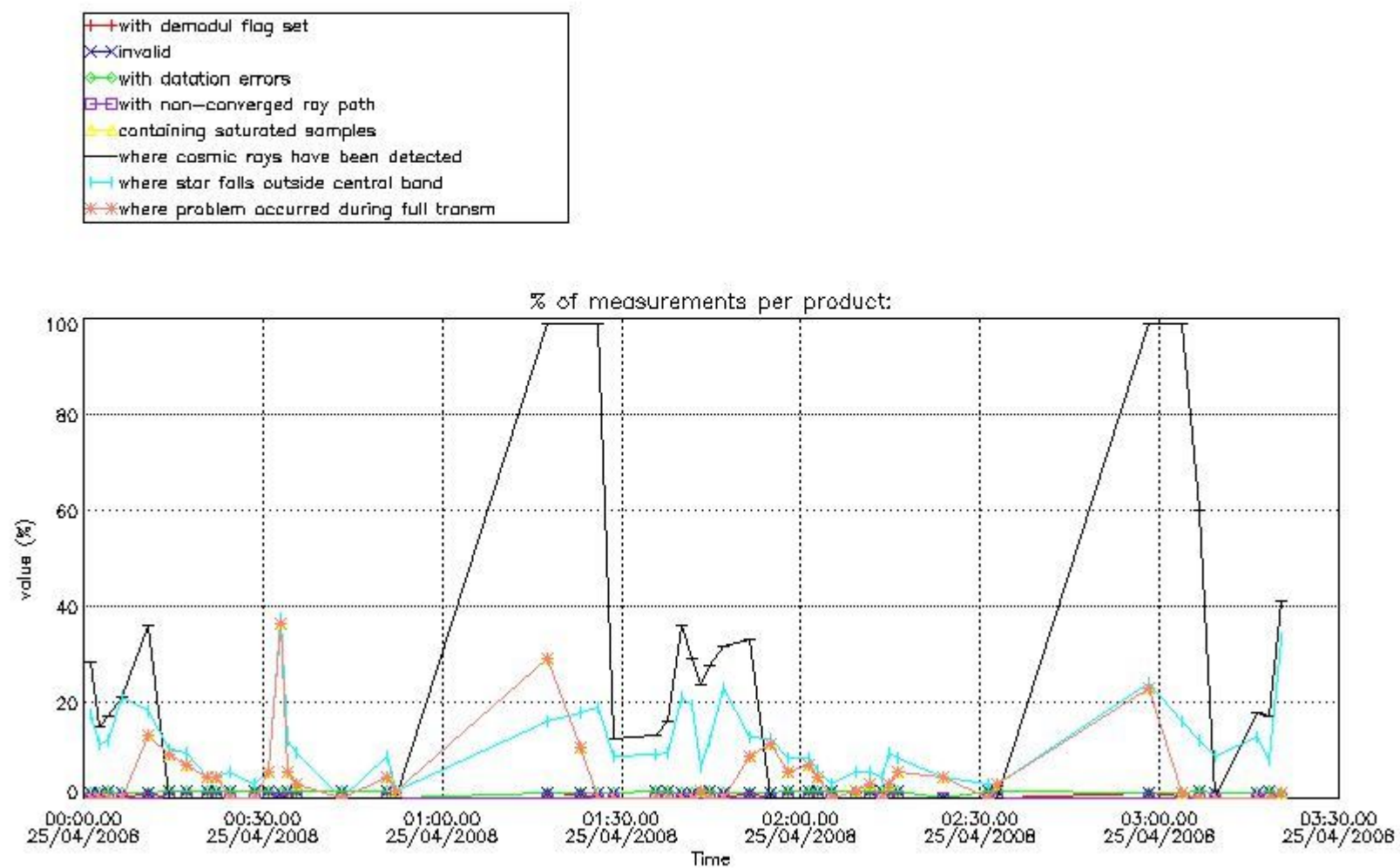
## 5. Demodulation flag and quality information monitoring

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

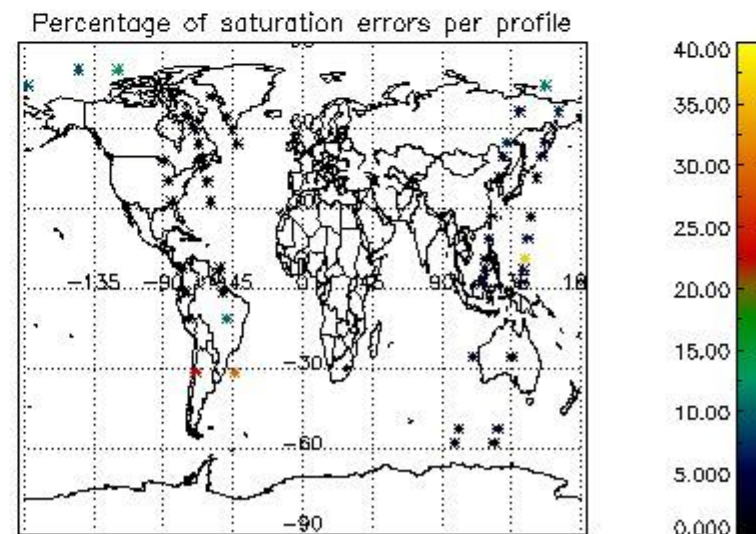
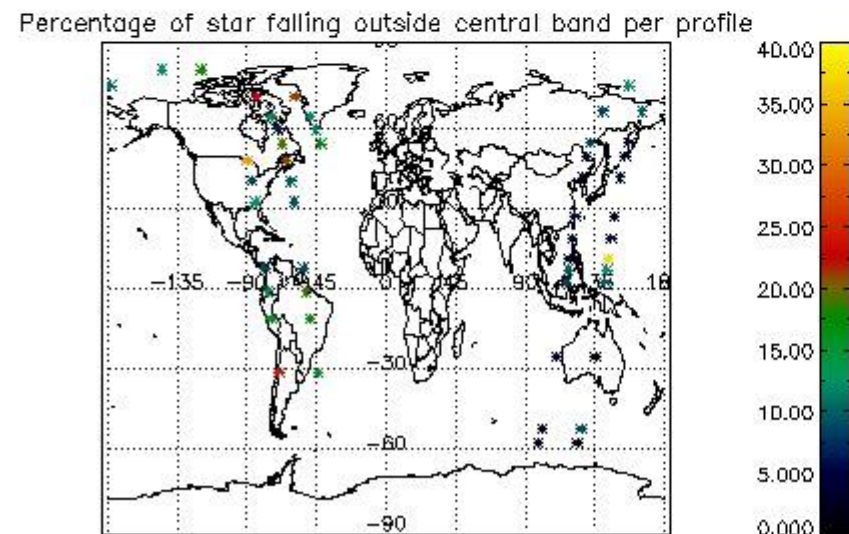
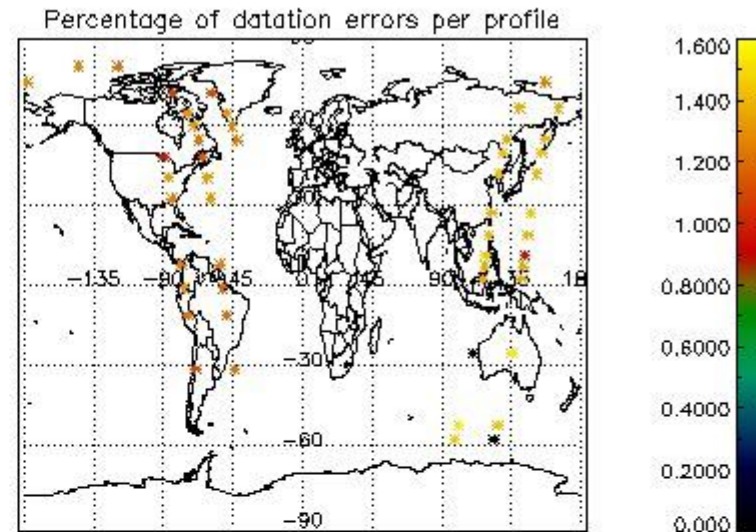
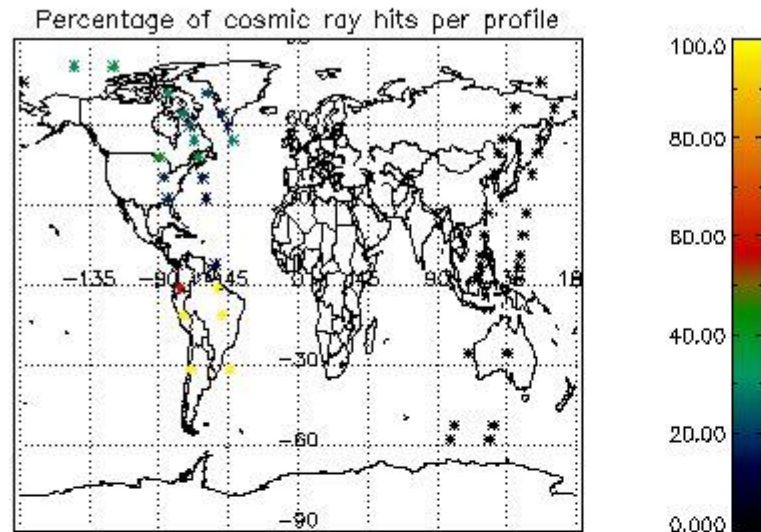
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.0000 %
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)



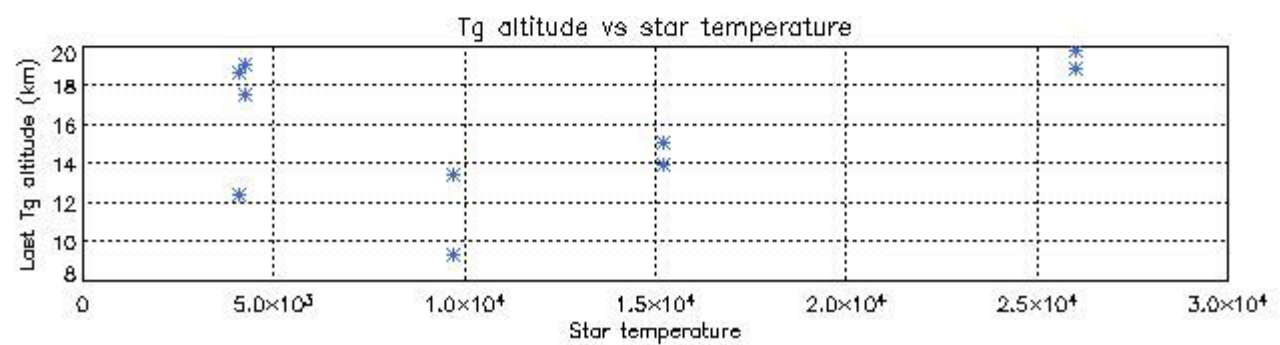
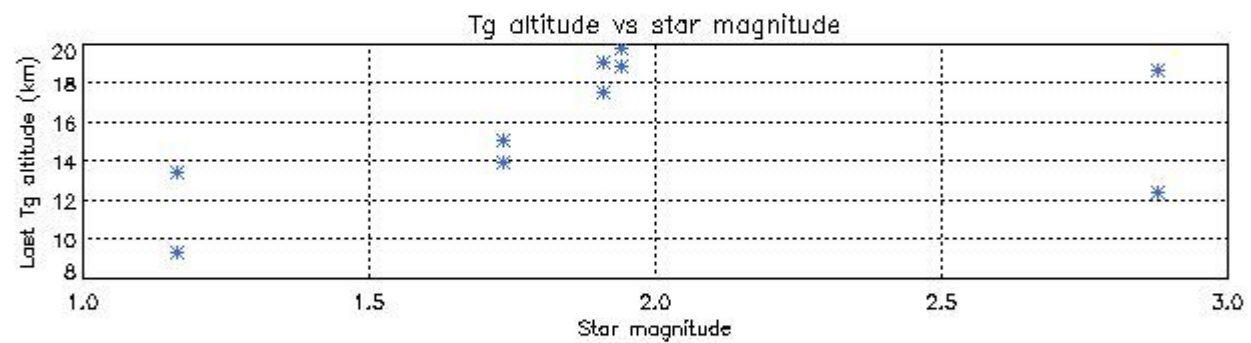
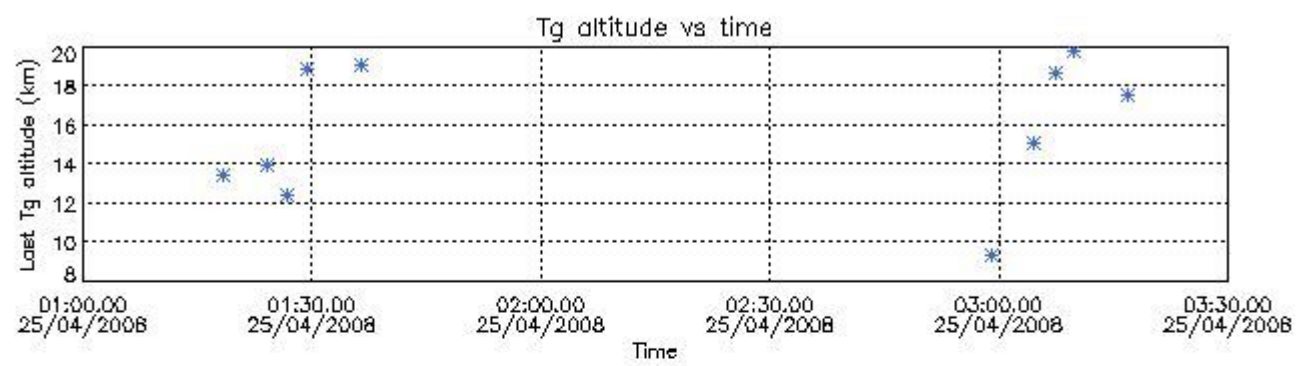
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.803	20.894	NaN
St. deviation:	3.5099	4.6482	NaN
Maximum:	19.769	27.921	NaN
Minimum:	9.2891	3.3036	NaN
Number of data:	10.000	26.000	NaN

### 6.2 Plot for DARK limb products

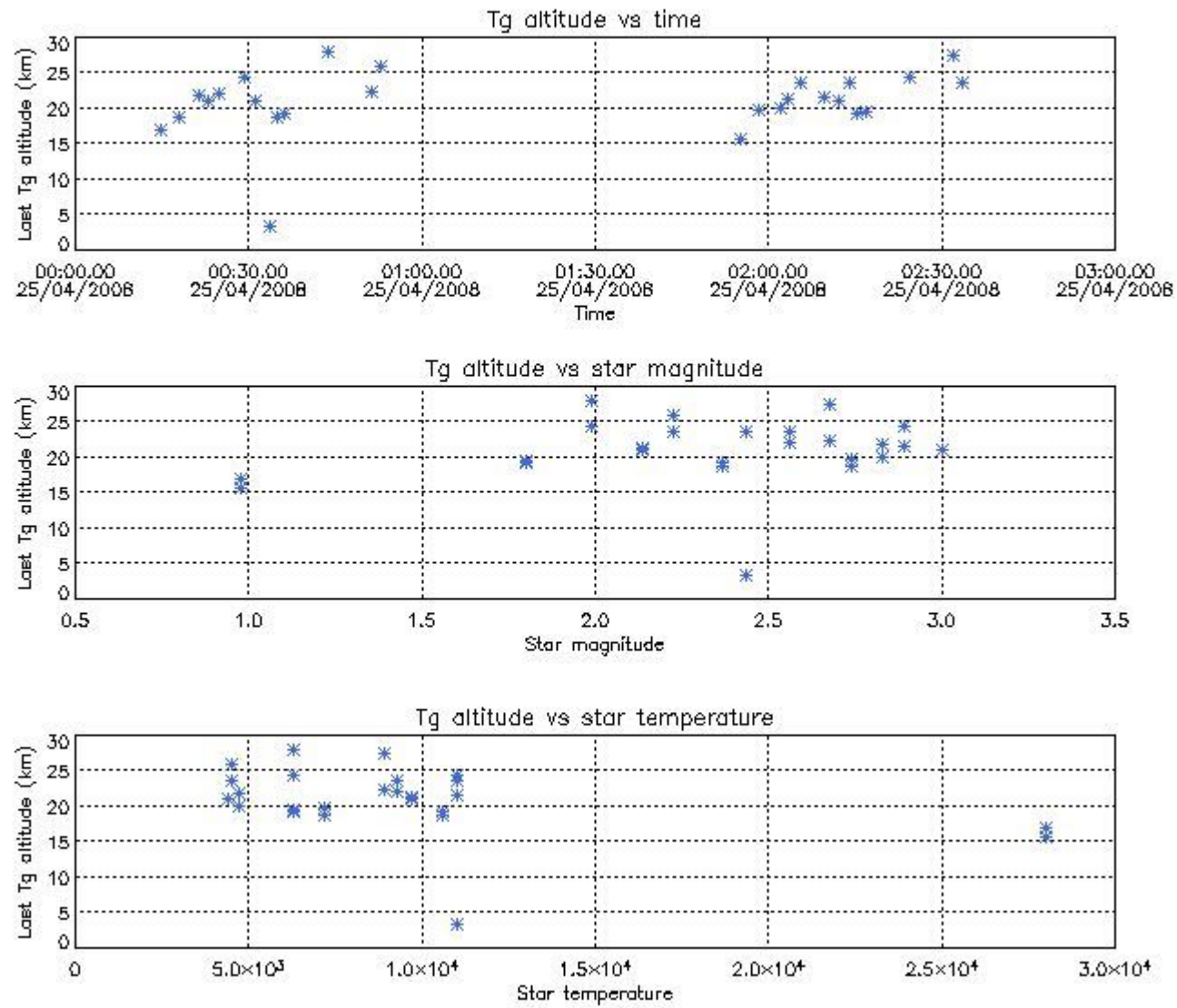
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

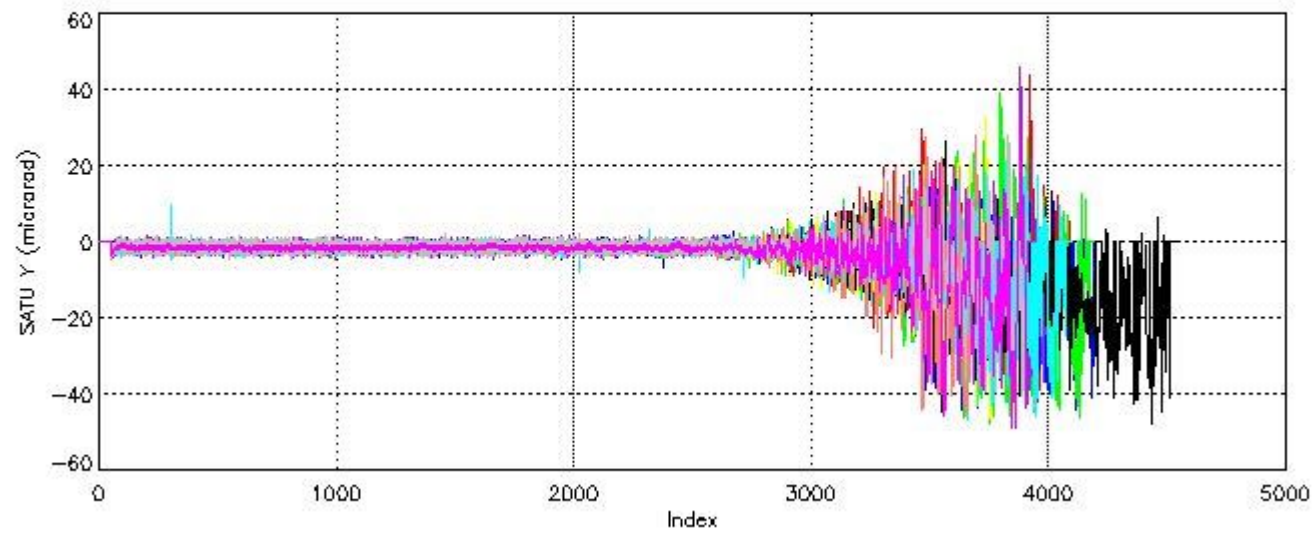
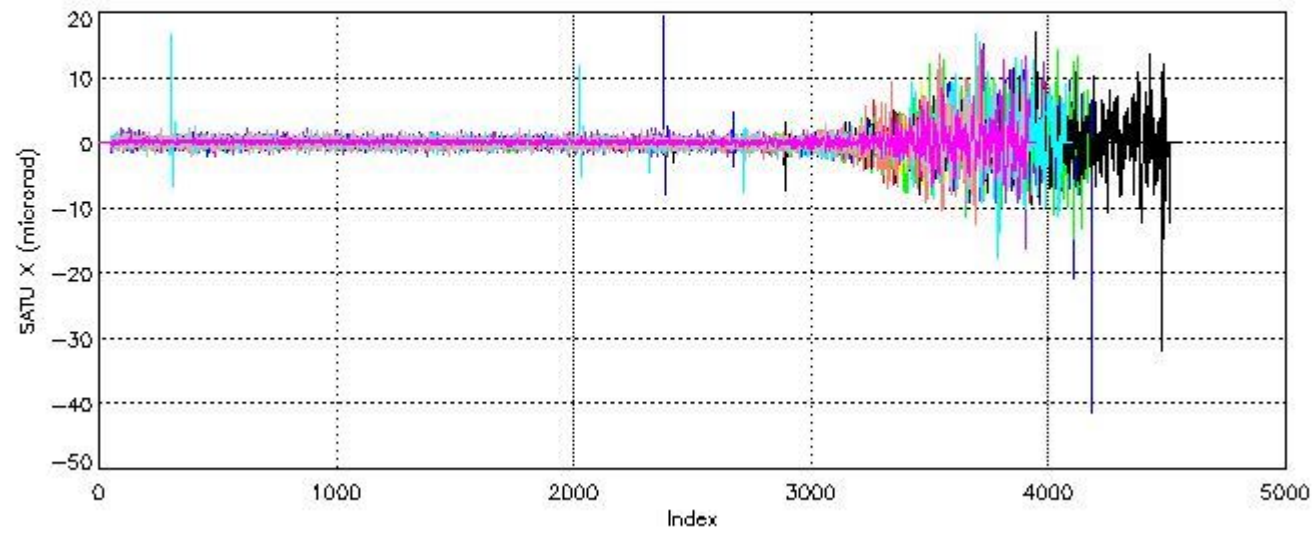


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.030234	-1.4610	-0.0026595	-1.4306
St. deviation:	0.47475	0.92729	0.88259	1.3609
Maximum:	16.700	9.7000	6.0000	5.3000
Minimum:	-6.8000	-5.0000	-5.8000	-9.5000

Number of data:	8750.0	8750.0	20950.	20950.
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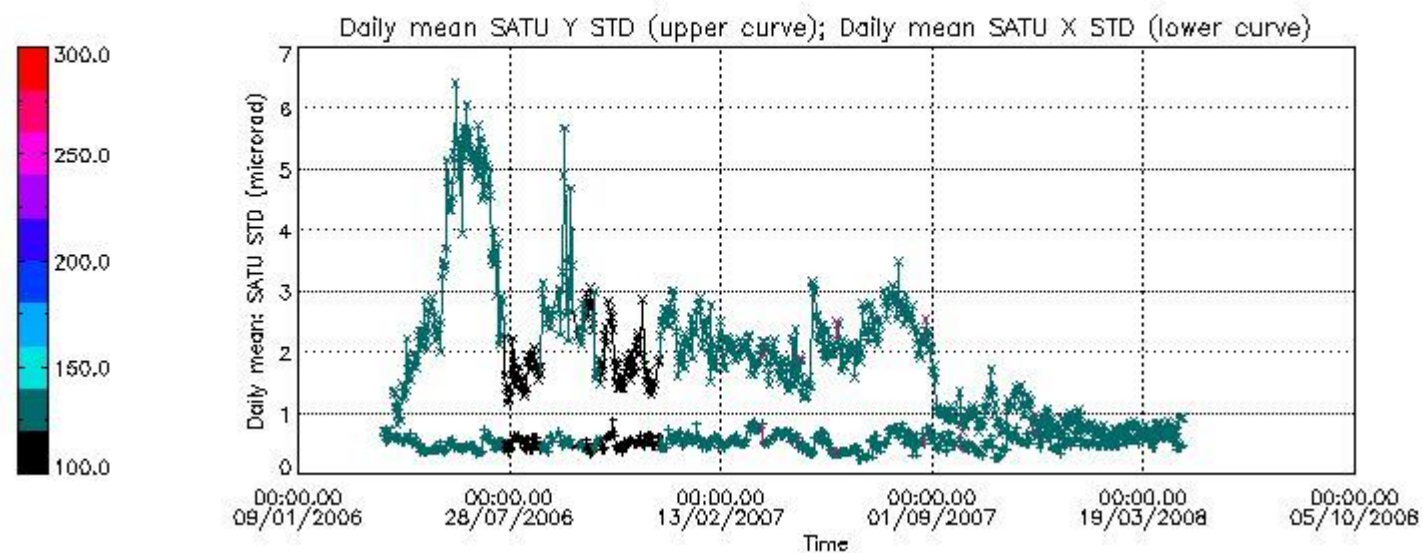
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

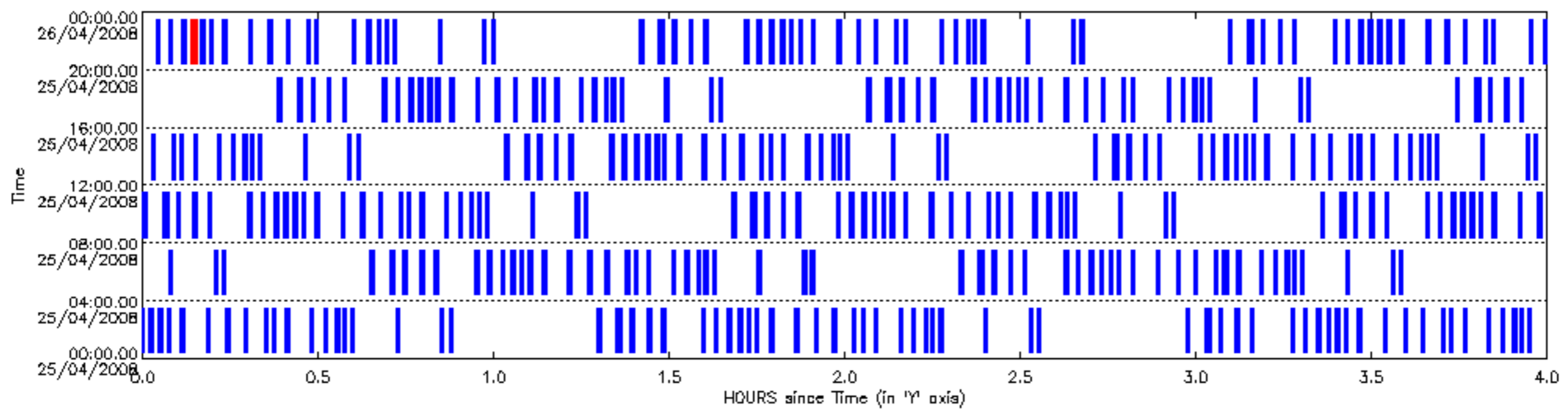
Lower curve: STD of SATU X axis

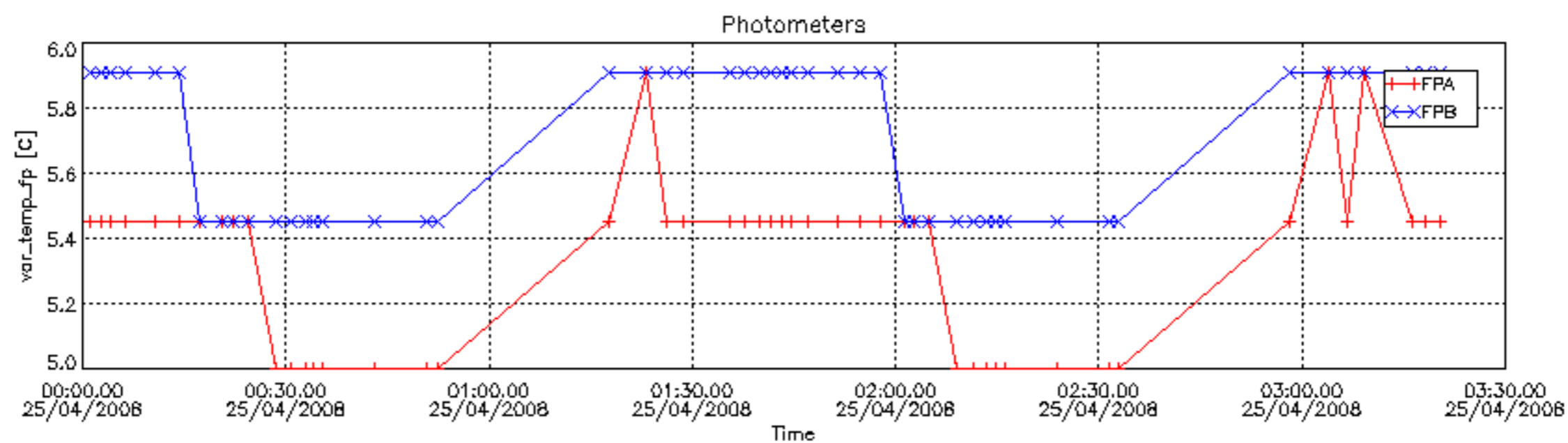
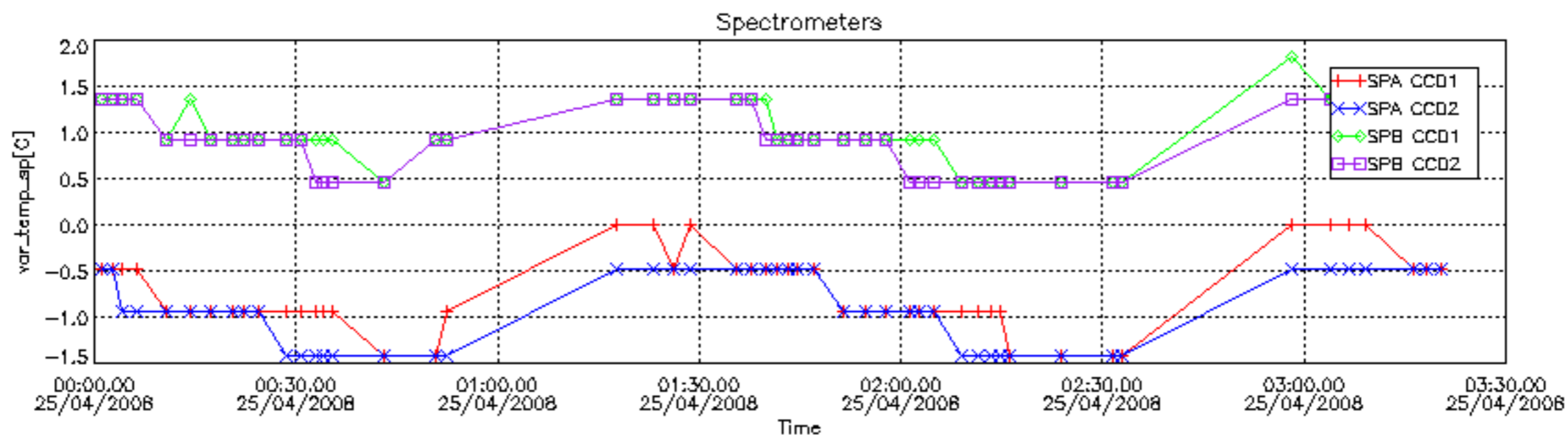


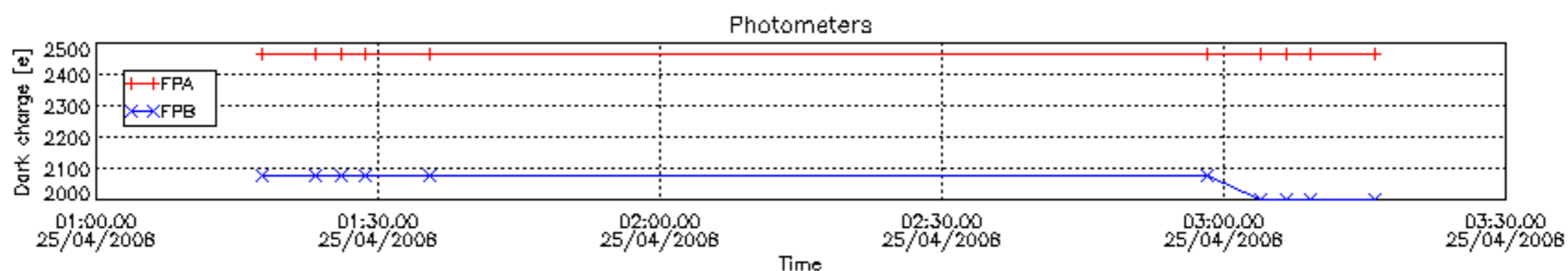
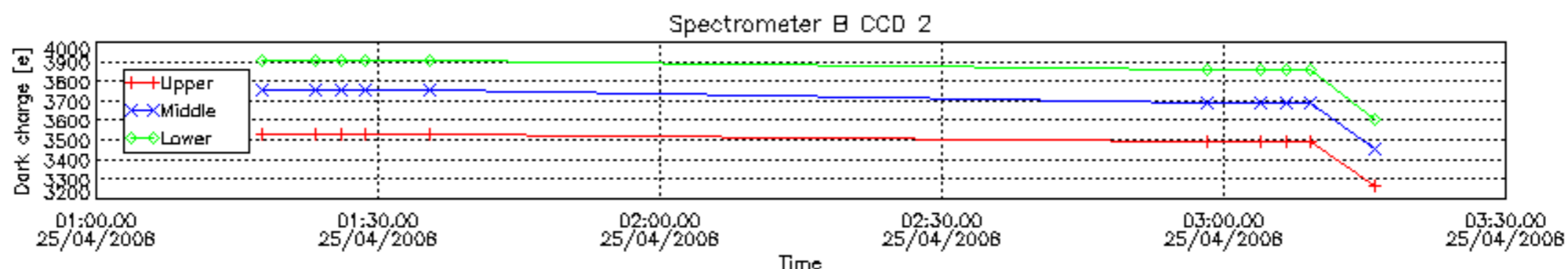
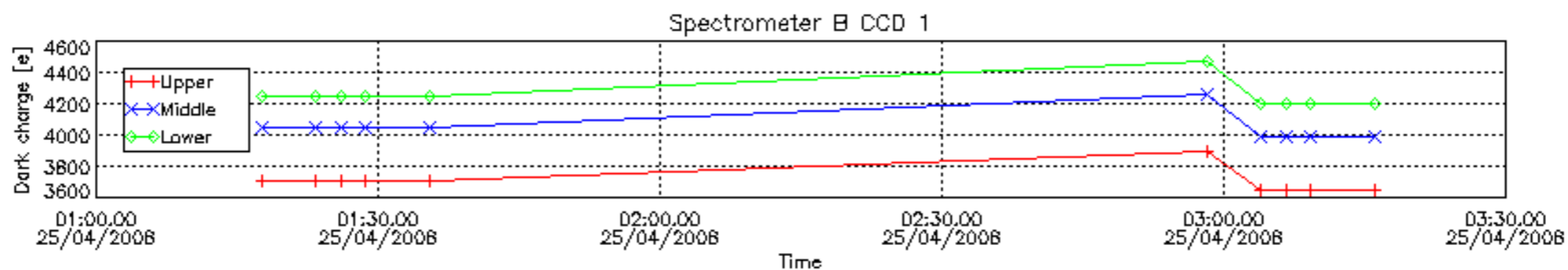
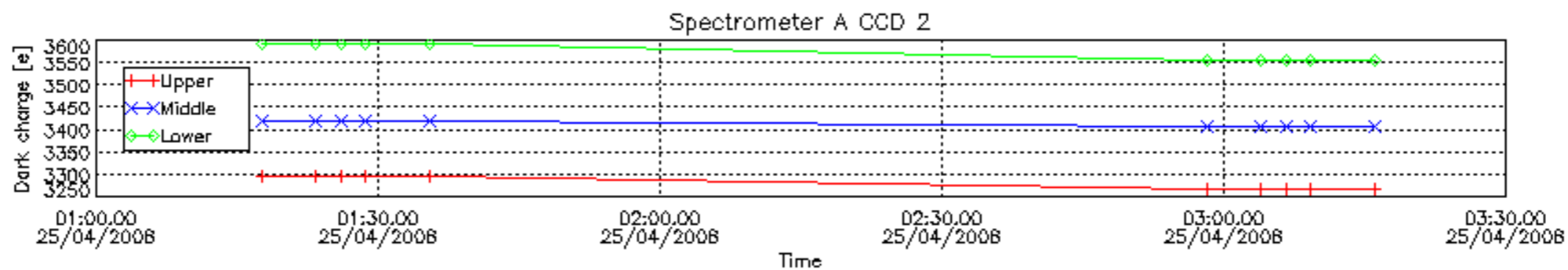
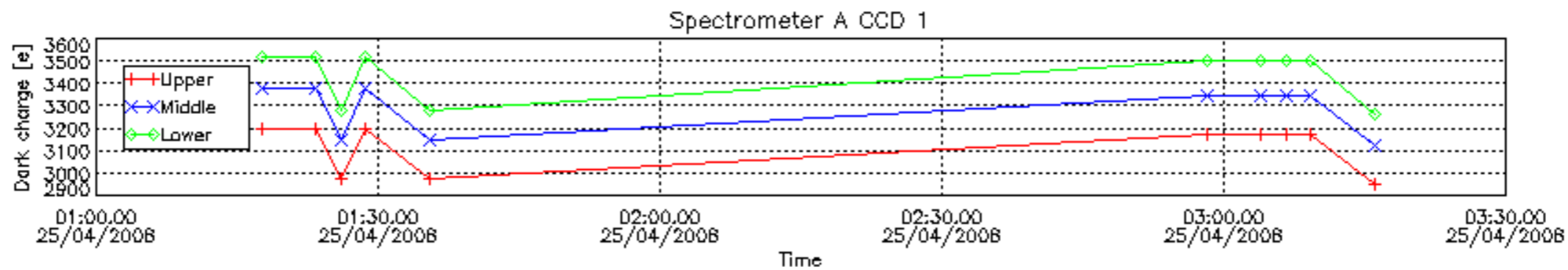
### 8. Auxiliary Data Files used for the production reported in section 2.4

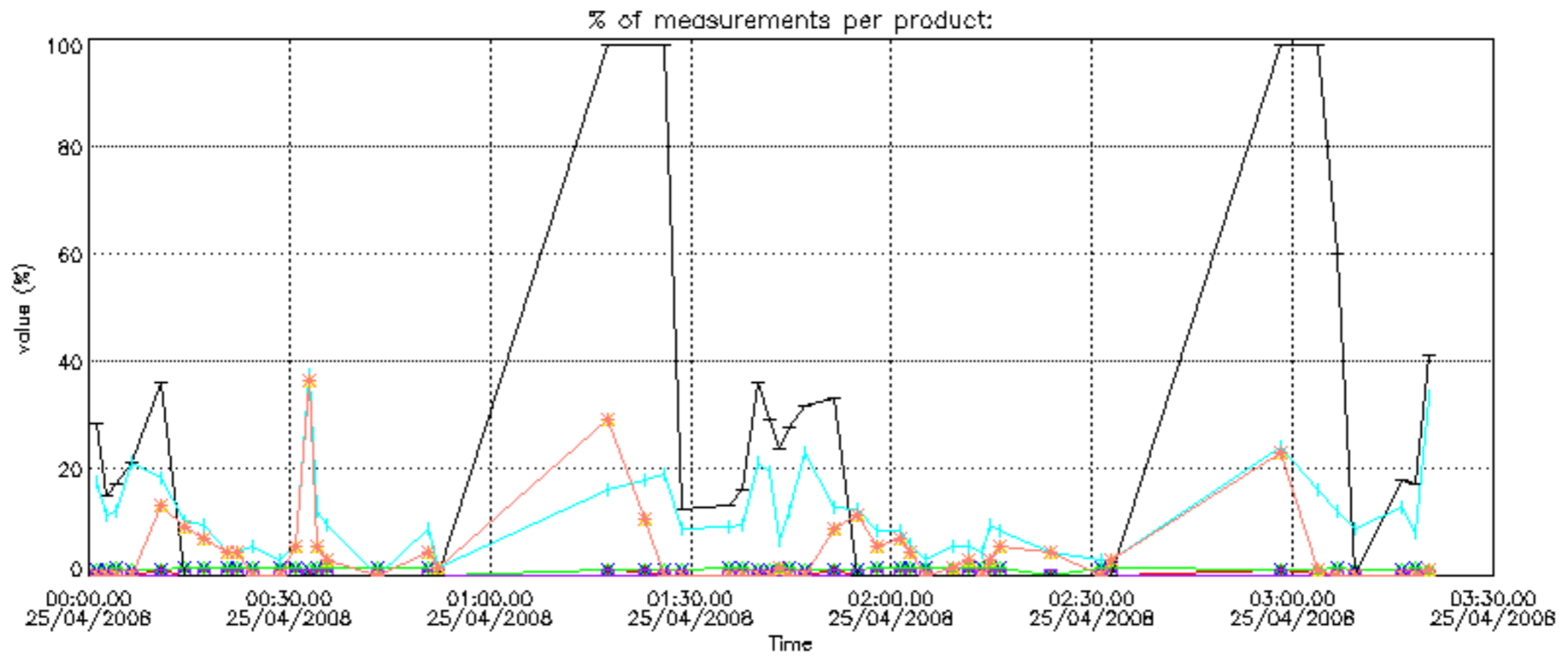
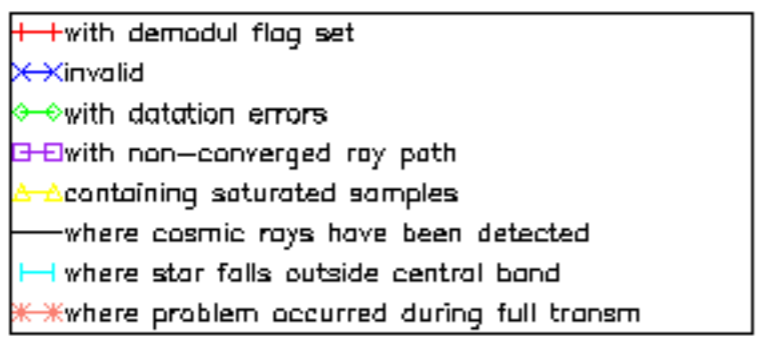
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-APR-2008 00:01:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080424_075418_20080422_000000_20100101_000000	1	25-APR-2008 00:01:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-APR-2008 00:01:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-APR-2008 00:01:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-APR-2008 00:01:05
ECMWF_FILE	AUX_ECF_AXNECM20080424_072113_20080424_210000_20080425_090000	1	25-APR-2008 00:01:05
OPTIONAL_ECMWF_FILE	MISSING	1	25-APR-2008 00:01:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080424_214612_000060572068_00043_32161_5399.N1	1	25-APR-2008 00:01:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080424_233227_000057382068_00044_32162_5400.N1	19	25-APR-2008 01:17:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080425_010806_000044632068_00045_32163_5401.N1	42	25-APR-2008 02:31:29

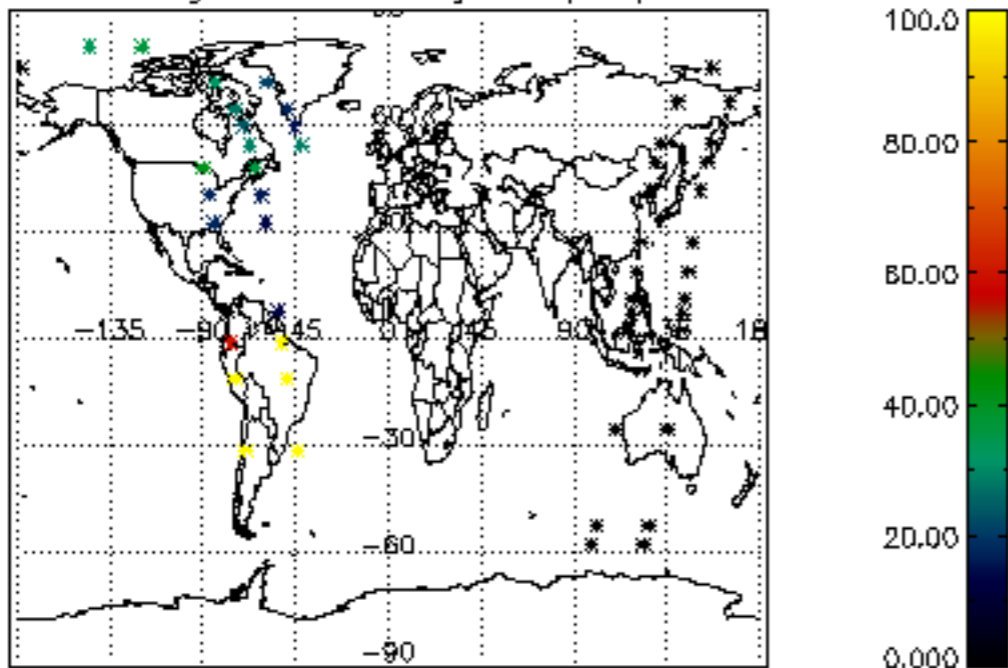




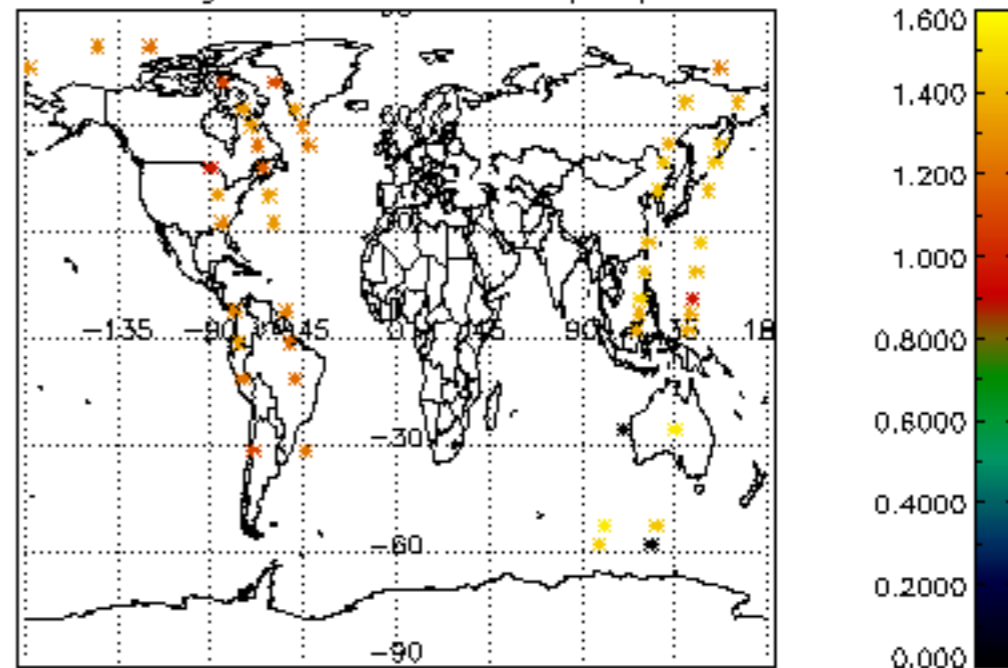




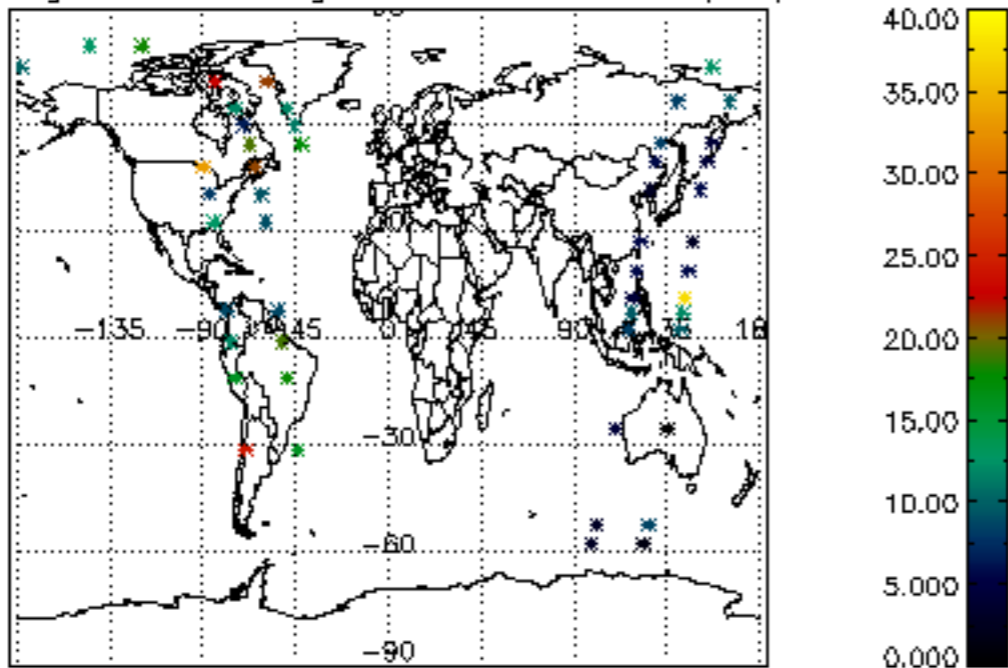
Percentage of cosmic ray hits per profile



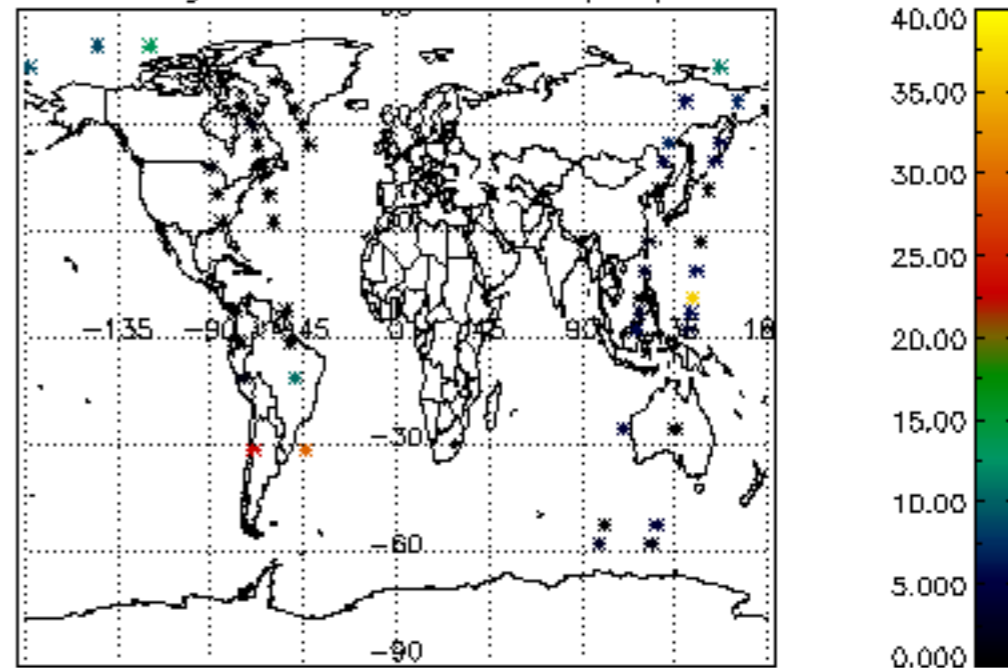
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

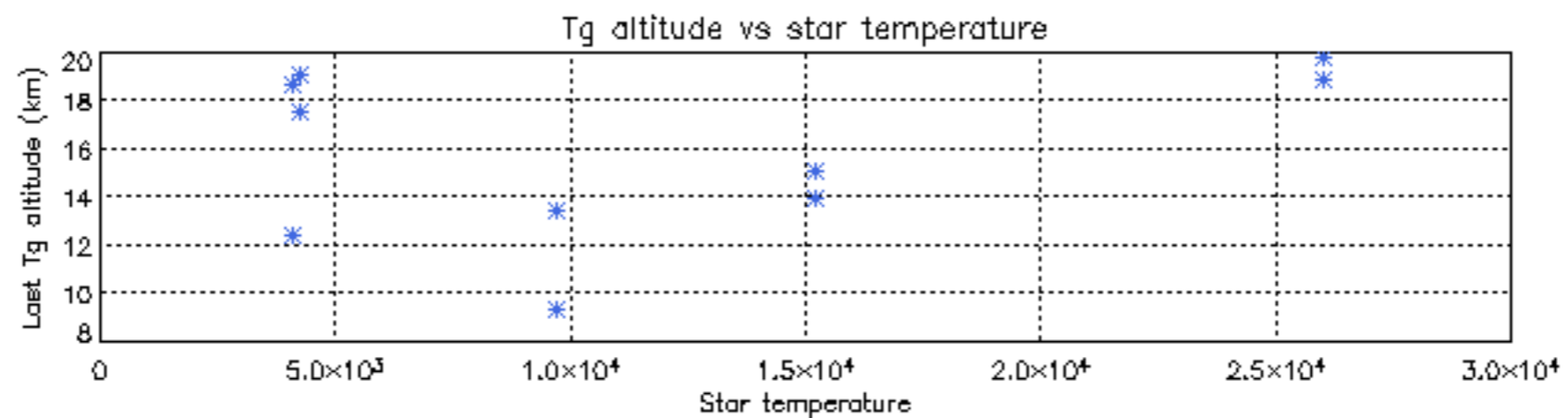
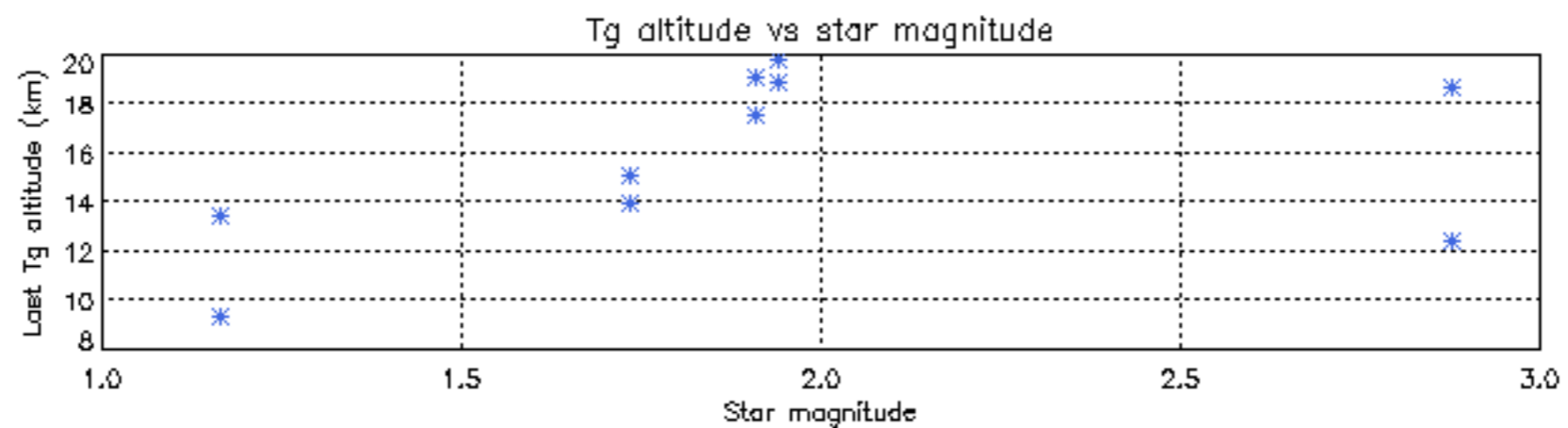
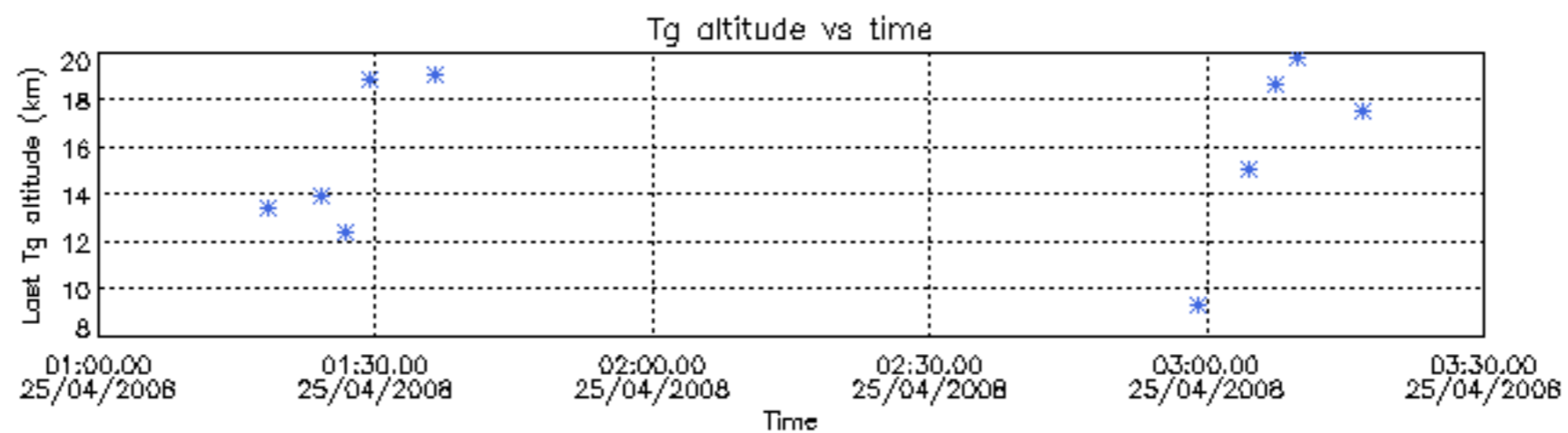


Percentage of saturation errors per profile

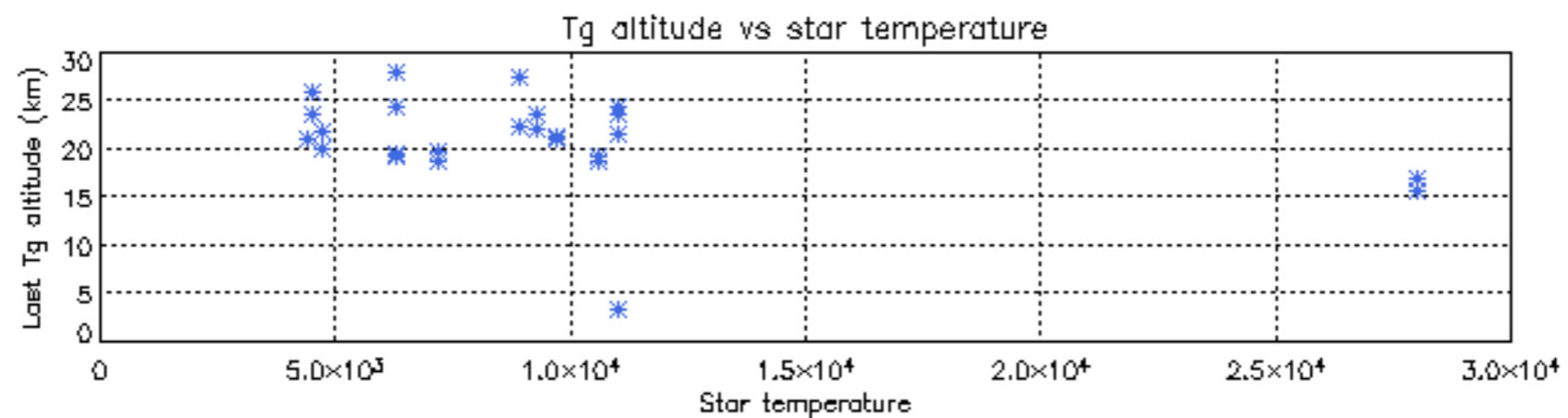
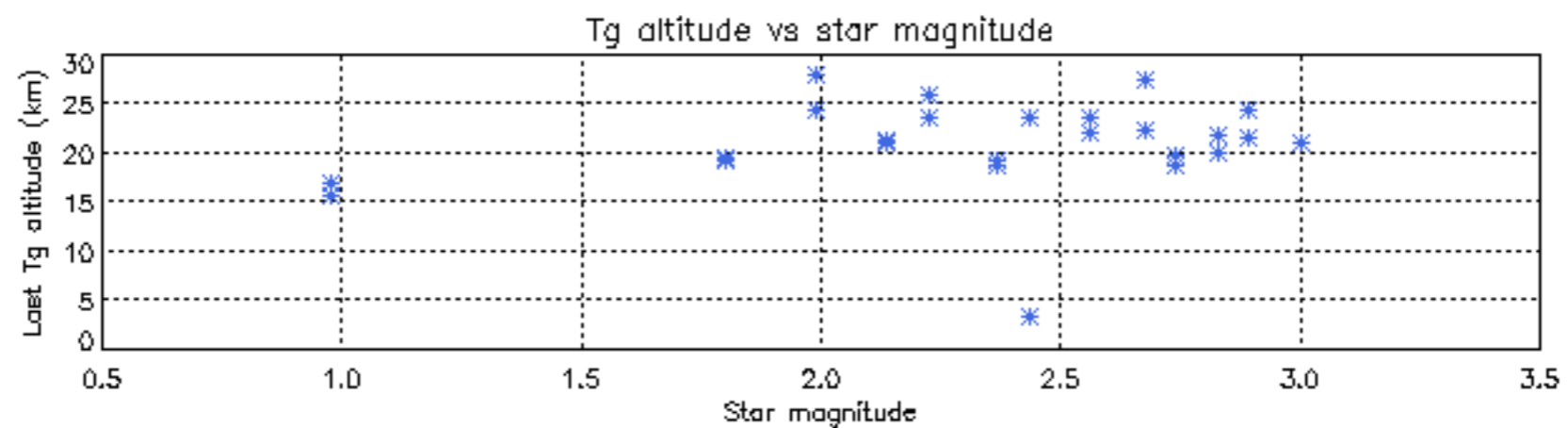
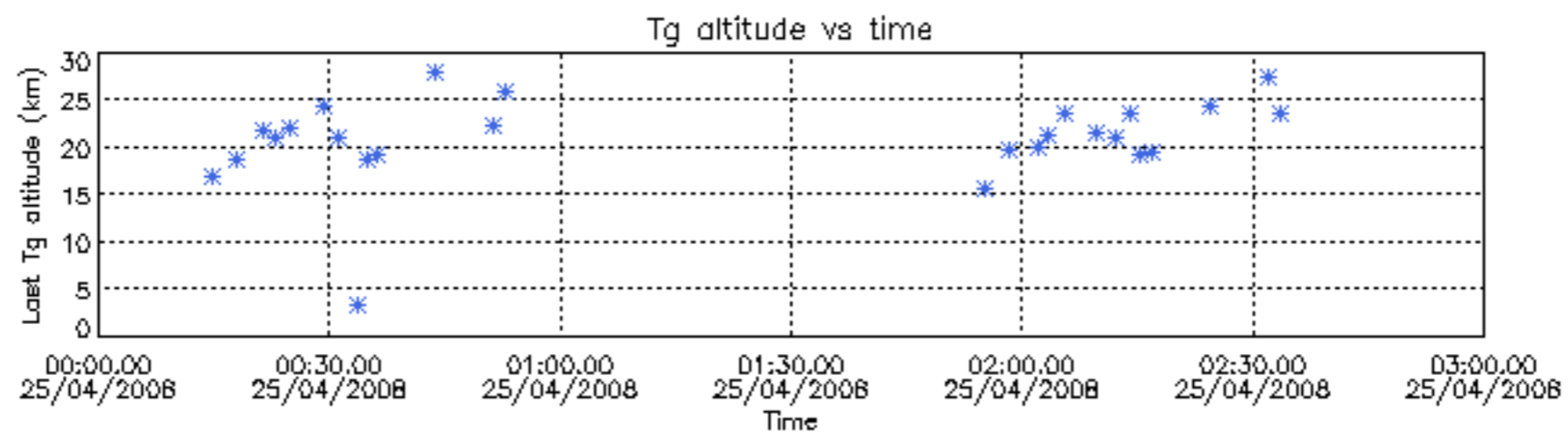


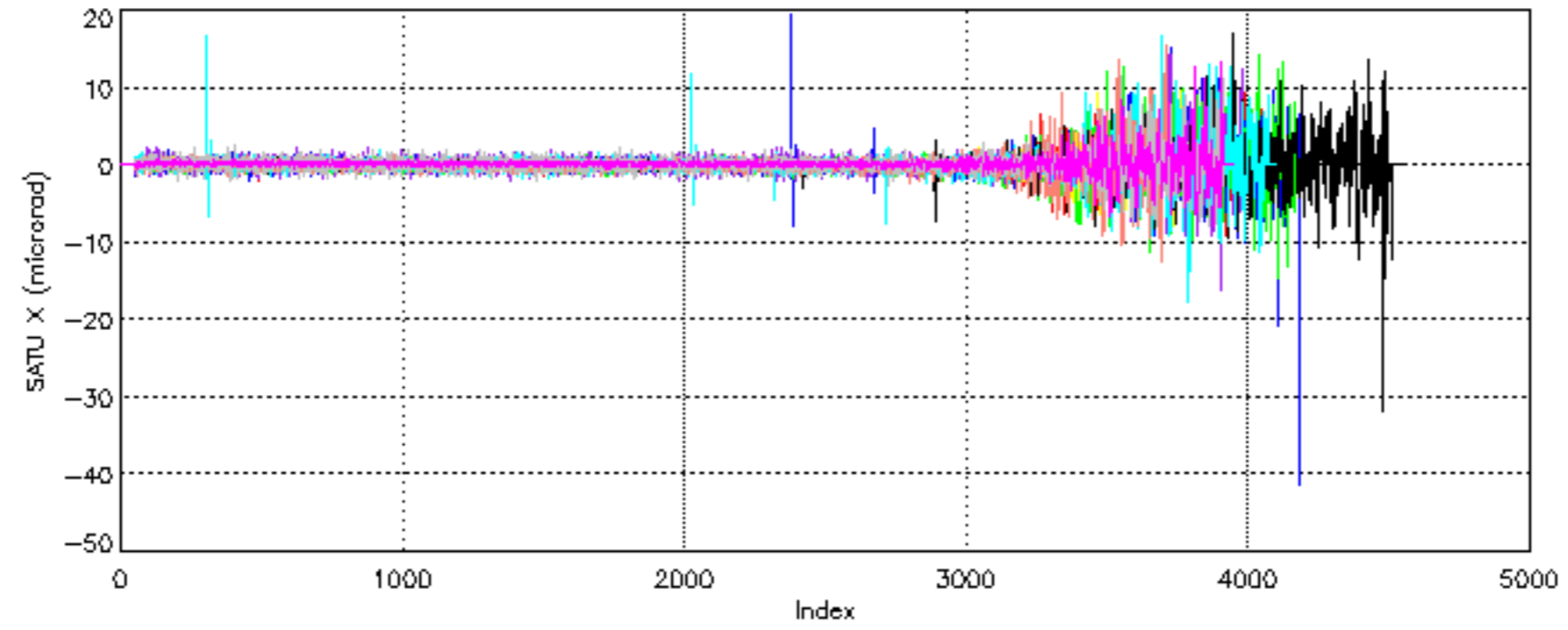


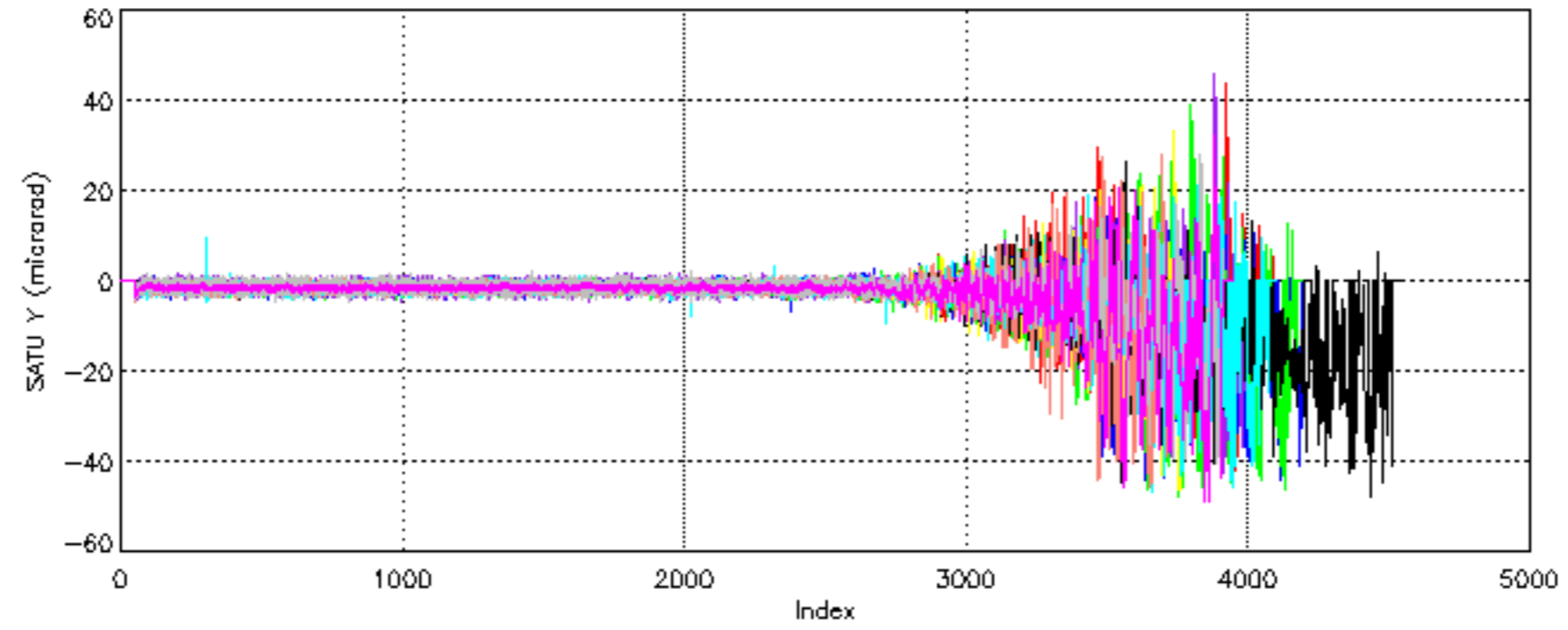
Tangent altitude at which the star is lost

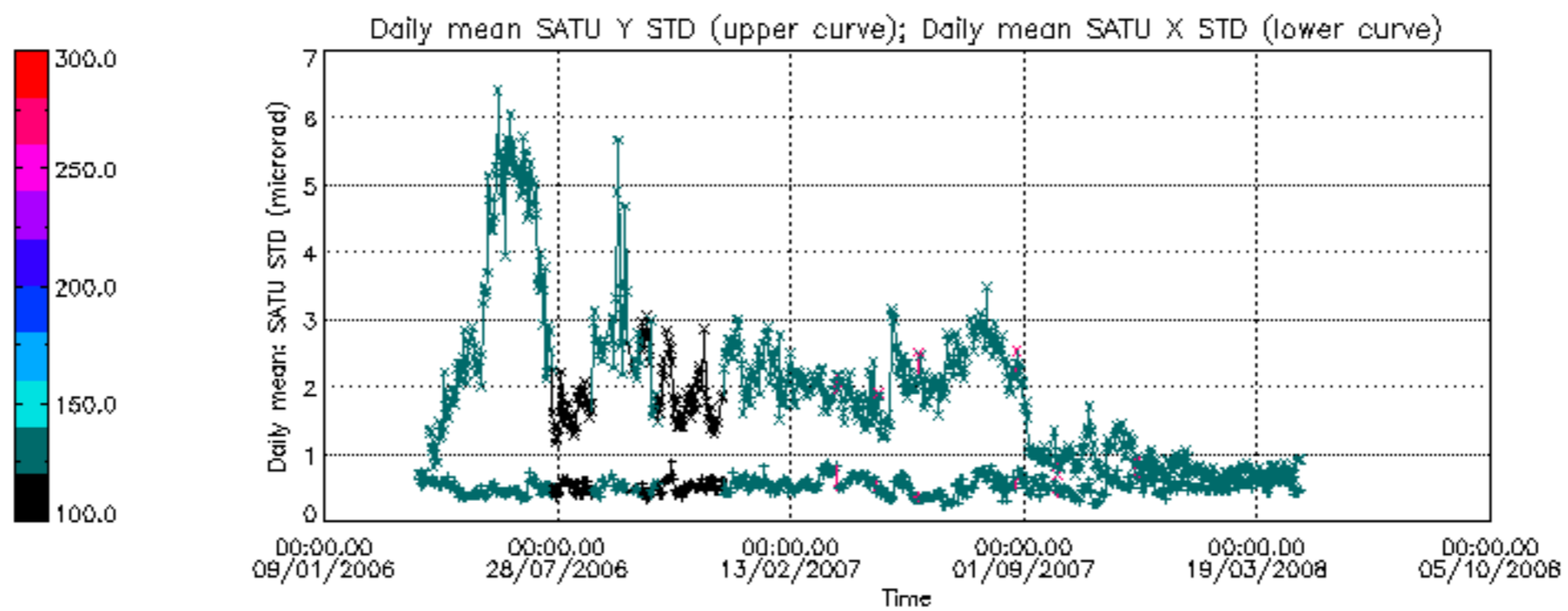


Tangent altitude at which the star is lost









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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
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14; 6446.2; 01-APR-2008 09:10:18; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;31824
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3; 2666.0; 01-APR-2008 09:47:53; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;31825
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5; 2957.7; 01-APR-2008 09:52:45; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31825
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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; Tot 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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3; 2665.9; 01-APR-2008 11:28:29; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;31826
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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
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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
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14; 6558.7; 01-APR-2008 12:33:22; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;31826
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19; 7209.5; 01-APR-2008 12:44:13; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;31826
20; 7498.9; 01-APR-2008 12:49:02; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31826
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 4; 2257.4; 02-APR-2008 00:46:28; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;31834  
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 6; 2844.3; 02-APR-2008 00:56:15; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31834  
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 9; 3901.1; 02-APR-2008 01:13:52; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;31834  
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 11; 4982.6; 02-APR-2008 01:31:53; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;31834  
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 13; 5263.5; 02-APR-2008 01:36:34; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;31834  
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 3; 2257.6; 02-APR-2008 02:27:04; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;31835  
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 5; 2844.0; 02-APR-2008 02:36:51; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;31835  
 6; 2957.1; 02-APR-2008 02:38:44; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;31835  
 7; 3440.4; 02-APR-2008 02:46:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;31835  
 8; 3901.1; 02-APR-2008 02:54:28; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;31835  
 9; 4833.0; 02-APR-2008 03:10:00; Dark ; 44.5; 61; 8Eps Peg ; 2.10; 3900;occ; 89; 0;31835  
 10; 4982.8; 02-APR-2008 03:12:29; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;31835  
 11; 5110.3; 02-APR-2008 03:14:37; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;31835  
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 13; 5598.7; 02-APR-2008 03:22:45; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31835  
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 23; 7500.7; 02-APR-2008 03:54:27; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;31835  
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 9; 4833.4; 02-APR-2008 04:50:36; Dark ; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;31836

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4; 2158.1; 02-APR-2008 22:32:36; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;31847
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22; 6943.4; 02-APR-2008 23:52:21; Dark ; 51.0; 26; Gam Cru ; 1.62; 2900;occ; 102; 0;31847
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3; 2665.3; 02-APR-2008 07:35:40; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;31838

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22; 7501.3; 02-APR-2008 08:56:16; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;31838  
23; 7617.7; 02-APR-2008 08:58:12; Dark ; 40.0; 100; 4Gam Crv ; 2.58; 13100;occ; 80; 0;31838

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4; 2843.1; 02-APR-2008 10:59:49; Bright; 35.5; 87; 64Gam UMA ; 2.43; 11000;occ; 71; 0;31840  
5; 2956.9; 02-APR-2008 11:01:43; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;31840  
6; 3440.5; 02-APR-2008 11:09:47; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;31840  
7; 3900.8; 02-APR-2008 11:17:27; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;31840  
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9; 4984.2; 02-APR-2008 11:35:31; Dark ; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;31840  
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11; 5265.6; 02-APR-2008 11:40:12; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;31840  
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13; 5875.2; 02-APR-2008 11:50:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31840  
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 3; 2257.5; 02-APR-2008 12:30:40; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31841  
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 17; 6566.4; 02-APR-2008 13:42:29; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31841  
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13; 4985.9; 02-APR-2008 21:39:08; Dark ; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;31846
14; 5114.6; 02-APR-2008 21:41:17; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;31846

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 9; 3900.2; 03-APR-2008 02:22:50; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;31849  
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19; 6466.4; 04-APR-2008 17:39:22; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;31872
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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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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
10; 3318.8; 04-APR-2008 20:08:07; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;31874
11; 3440.9; 04-APR-2008 20:10:09; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;31874
12; 3898.1; 04-APR-2008 20:17:46; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;31874
13; 4844.5; 04-APR-2008 20:33:32; Dark ; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;31874

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 16; 5277.7; 04-APR-2008 20:40:46; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 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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 7; 2258.7; 04-APR-2008 21:31:02; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31875  
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 12; 3440.9; 04-APR-2008 21:50:45; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31875  
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 16; 5126.5; 04-APR-2008 22:18:50; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 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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 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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 3; 2156.1; 05-APR-2008 15:55:55; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;31886  
 4; 2259.4; 05-APR-2008 15:57:38; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31886  
 5; 2664.3; 05-APR-2008 16:04:23; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31886

6; 2834.3; 05-APR-2008 16:07:13; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31886  
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8; 3441.1; 05-APR-2008 16:17:20; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;31886  
9; 3857.6; 05-APR-2008 16:24:16; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;31886  
10; 3937.2; 05-APR-2008 16:25:36; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;31886  
11; 4848.5; 05-APR-2008 16:40:47; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;31886  
12; 4997.5; 05-APR-2008 16:43:16; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;31886  
13; 5131.6; 05-APR-2008 16:45:30; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;31886  
14; 5282.7; 05-APR-2008 16:48:01; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;31886  
15; 5613.2; 05-APR-2008 16:53:32; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;31886  
16; 5752.4; 05-APR-2008 16:55:51; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;31886  
17; 5894.9; 05-APR-2008 16:58:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31886  
18; 6020.8; 05-APR-2008 17:00:19; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;31886  
19; 6472.3; 05-APR-2008 17:07:51; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;31886  
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21; 6743.5; 05-APR-2008 17:12:22; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;31886  
22; 6863.8; 05-APR-2008 17:14:22; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;31886  
23; 6953.3; 05-APR-2008 17:15:52; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;31886  
24; 7072.4; 05-APR-2008 17:17:51; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;31886

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3; 2156.0; 05-APR-2008 17:36:31; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;31887  
4; 2259.4; 05-APR-2008 17:38:14; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31887  
5; 2664.2; 05-APR-2008 17:44:59; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;31887  
6; 2834.2; 05-APR-2008 17:47:49; Bright; 42.0; 87; 64Gam UMa ; 2.43; 11000;occ; 84; 0;31887  
7; 2955.6; 05-APR-2008 17:49:50; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31887  
8; 3441.2; 05-APR-2008 17:57:56; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;31887  
9; 3857.7; 05-APR-2008 18:04:52; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;31887  
10; 3937.4; 05-APR-2008 18:06:12; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;31887  
11; 4848.7; 05-APR-2008 18:21:23; Dark ; 49.5; 61; 8Eps Peg ; 2.10; 3900;occ; 99; 0;31887  
12; 4997.8; 05-APR-2008 18:23:53; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;31887  
13; 5132.0; 05-APR-2008 18:26:07; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;31887  
14; 5282.9; 05-APR-2008 18:28:38; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;31887  
15; 5613.7; 05-APR-2008 18:34:08; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31887  
16; 5752.5; 05-APR-2008 18:36:27; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;31887  
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18; 6021.2; 05-APR-2008 18:40:56; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;31887  
19; 6472.7; 05-APR-2008 18:48:27; Dark ; 37.5; 43; Alp TrA ; 1.91; 4250;occ; 75; 0;31887  
20; 6589.6; 05-APR-2008 18:50:24; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;31887  
21; 6743.9; 05-APR-2008 18:52:59; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;31887  
22; 6864.0; 05-APR-2008 18:54:59; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;31887  
23; 6953.5; 05-APR-2008 18:56:28; Dark ; 44.0; 26; Gam Cru ; 1.62; 2900;occ; 88; 0;31887  
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5; 2259.5; 05-APR-2008 19:18:50; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31888  
6; 2664.2; 05-APR-2008 19:25:35; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31888  
7; 2834.0; 05-APR-2008 19:28:25; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;31888  
8; 2955.5; 05-APR-2008 19:30:26; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;31888  
9; 3441.1; 05-APR-2008 19:38:32; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;31888  
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11; 3937.6; 05-APR-2008 19:46:48; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;31888  
12; 4849.1; 05-APR-2008 20:02:00; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;31888  
13; 4998.1; 05-APR-2008 20:04:29; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;31888  
14; 5132.4; 05-APR-2008 20:06:43; Dark ; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;31888  
15; 5283.2; 05-APR-2008 20:09:14; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;31888  
16; 5613.8; 05-APR-2008 20:14:44; Dark ; 36.0; 172; Gam Gru ; 3.00; 13100;occ; 72; 0;31888  
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18; 5895.7; 05-APR-2008 20:19:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31888  
19; 6021.7; 05-APR-2008 20:21:32; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31888  
20; 6473.0; 05-APR-2008 20:29:04; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;31888  
21; 6590.1; 05-APR-2008 20:31:01; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31888  
22; 6744.2; 05-APR-2008 20:33:35; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;31888  
23; 6864.1; 05-APR-2008 20:35:35; Dark ; 37.5; 12; Alp1Cru ; 0.77; 30000;occ; 75; 0;31888

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3; 1474.9; 05-APR-2008 20:46:21; Dark ; 41.0; 106; 9Bet Crv ; 2.65; 5600;occ; 82; 0;31889
4; 1588.9; 05-APR-2008 20:48:15; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;31889
5; 2155.9; 05-APR-2008 20:57:43; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;31889
6; 2259.5; 05-APR-2008 20:59:26; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31889
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8; 2833.7; 05-APR-2008 21:09:00; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31889
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13; 4849.2; 05-APR-2008 21:42:36; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;31889
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15; 5132.8; 05-APR-2008 21:47:19; Dark ; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;31889
16; 5283.6; 05-APR-2008 21:49:50; Dark ; 37.5; 142; 49Del Cap ; 2.85; 8900;occ; 75; 0;31889
17; 5614.1; 05-APR-2008 21:55:21; Dark ; 36.0; 172; Gam Gru ; 3.00; 13100;occ; 72; 0;31889
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19; 5896.1; 05-APR-2008 22:00:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31889
20; 6022.0; 05-APR-2008 22:02:09; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31889
21; 6473.3; 05-APR-2008 22:09:40; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;31889
22; 6590.6; 05-APR-2008 22:11:37; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31889
23; 6744.6; 05-APR-2008 22:14:11; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;31889
24; 6864.2; 05-APR-2008 22:16:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;31889
25; 6953.8; 05-APR-2008 22:17:40; Dark ; 49.5; 26; Gam Cru ; 1.62; 2900;occ; 99; 0;31889
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3; 2155.8; 06-APR-2008 00:18:54; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;31891
4; 2259.6; 06-APR-2008 00:20:38; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;31891
5; 2664.1; 06-APR-2008 00:27:22; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31891
6; 2833.4; 06-APR-2008 00:30:12; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;31891
7; 2955.4; 06-APR-2008 00:32:14; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;31891
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9; 3858.6; 06-APR-2008 00:47:17; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;31891
10; 3938.4; 06-APR-2008 00:48:37; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;31891
11; 4850.0; 06-APR-2008 01:03:48; Dark ; 45.0; 61; 8Eps Peg ; 2.10; 3900;occ; 90; 0;31891
12; 4998.8; 06-APR-2008 01:06:17; Dark ; 44.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 88; 0;31891
13; 5133.8; 06-APR-2008 01:08:32; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;31891
14; 5284.3; 06-APR-2008 01:11:03; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;31891
15; 5753.2; 06-APR-2008 01:18:51; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;31891
16; 5897.0; 06-APR-2008 01:21:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31891
17; 6022.9; 06-APR-2008 01:23:21; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31891
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19; 6591.5; 06-APR-2008 01:32:50; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31891
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21; 6864.6; 06-APR-2008 01:37:23; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;31891
22; 6954.2; 06-APR-2008 01:38:53; Dark ; 51.0; 26; Gam Cru ; 1.62; 2900;occ; 102; 0;31891
23; 7073.6; 06-APR-2008 01:40:52; Dark ; 38.0; 64; Gam Cen ; 2.20; 10600;occ; 76; 0;31891
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4; 2259.7; 06-APR-2008 02:01:14; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;31892
5; 2664.1; 06-APR-2008 02:07:58; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31892
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12; 4999.1; 06-APR-2008 02:46:53; Dark ; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;31892
13; 5134.1; 06-APR-2008 02:49:08; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;31892
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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  
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 6; 3441.3; 06-APR-2008 07:22:43; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31895  
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 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  
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 19; 6593.6; 06-APR-2008 08:15:16; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31895  
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 22; 6955.3; 06-APR-2008 08:21:17; Dark ; 41.5; 26; Gam Cru ; 1.62; 2900;occ; 83; 0;31895  
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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  
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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  
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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  
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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  
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9; 4851.9; 06-APR-2008 11:07:26; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;31897  
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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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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  
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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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 9; 3862.6; 07-APR-2008 01:56:20; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;31906  
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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  
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 16; 5903.8; 07-APR-2008 02:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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 10; 4456.5; 07-APR-2008 03:46:49; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;31907  
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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  
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 14; 5619.8; 07-APR-2008 04:06:13; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 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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5; 2831.0; 07-APR-2008 05:00:20; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;31908  
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9; 3926.0; 07-APR-2008 05:18:35; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;31908  
10; 4456.8; 07-APR-2008 05:27:26; Bright; 33.5; 164; 44Eta Peg ; 2.95; 5400;occ; 67; 0;31908  
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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  
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3; 2664.5; 07-APR-2008 06:38:09; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 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  
29; 8991.4; 07-APR-2008 08:23:36; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;31909  
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43;12789.5; 07-APR-2008 09:26:54; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;31909  
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 2; -588.0; 09-APR-2008 21:26:42; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;31946  
 3; -402.3; 09-APR-2008 21:29:48; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;31946  
 4; -269.3; 09-APR-2008 21:32:01; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;31946  
 5; -113.0; 09-APR-2008 21:34:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31946  
 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  
 10; 839.2; 09-APR-2008 21:50:29; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;31947  
 11; 930.7; 09-APR-2008 21:52:01; Dark ; 38.5; 26; Gam Cru ; 1.62; 2900;occ; 77; 0;31947  
 12; 1052.2; 09-APR-2008 21:54:02; Dark ; 36.5; 64; Gam Cen ; 2.20; 10600;occ; 73; 0;31947  
 13; 1214.4; 09-APR-2008 21:56:44; Dark ; 41.0; 123; Tot Cen ; 2.75; 10200;occ; 82; 0;31947  
 14; 1485.3; 09-APR-2008 22:01:15; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31947  
 15; 1597.1; 09-APR-2008 22:03:07; Dark ; 37.5; 100; 4Gam Crv ; 2.58; 13100;occ; 75; 0;31947  
 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  
 19; 2826.0; 09-APR-2008 22:23:36; Bright; 35.5; 87; 64Gam UMA ; 2.43; 11000;occ; 71; 0;31947  
 20; 2956.1; 09-APR-2008 22:25:46; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;31947  
 21; 3441.9; 09-APR-2008 22:33:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;31947  
 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  
 25; 5017.3; 09-APR-2008 23:00:07; Dark ; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;31947  
 26; 5308.5; 09-APR-2008 23:04:58; Dark ; 24.0; 142; 49Del Cap ; 2.85; 8900;occ; 48; 0;31947

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1; -727.3; 09-APR-2008 23:04:58; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;31947  
 2; -587.8; 09-APR-2008 23:07:18; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;31947  
 3; -401.9; 09-APR-2008 23:10:24; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;31947  
 4; -269.2; 09-APR-2008 23:12:37; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;31947  
 5; -112.5; 09-APR-2008 23:15:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31947  
 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  
 8; 582.8; 09-APR-2008 23:26:49; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31948  
 9; 733.0; 09-APR-2008 23:29:19; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;31948  
 10; 839.3; 09-APR-2008 23:31:05; Dark ; 37.5; 12; Alp1Cru ; 0.77; 30000;occ; 75; 0;31948  
 11; 930.8; 09-APR-2008 23:32:37; Dark ; 48.5; 26; Gam Cru ; 1.62; 2900;occ; 97; 0;31948  
 12; 1052.4; 09-APR-2008 23:34:38; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;31948  
 13; 1214.7; 09-APR-2008 23:37:21; Dark ; 40.5; 123; Tot Cen ; 2.75; 10200;occ; 81; 0;31948  
 14; 1485.5; 09-APR-2008 23:41:51; Dark ; 40.5; 106; 9Bet Crv ; 2.65; 5600;occ; 81; 0;31948  
 15; 1597.2; 09-APR-2008 23:43:43; Dark ; 40.0; 100; 4Gam Crv ; 2.58; 13100;occ; 80; 0;31948  
 16; 2155.7; 09-APR-2008 23:53:01; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;31948  
 17; 2265.0; 09-APR-2008 23:54:51; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31948  
 18; 2666.1; 10-APR-2008 00:01:32; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;31948  
 19; 2825.7; 10-APR-2008 00:04:12; Bright; 39.0; 87; 64Gam UMA ; 2.43; 11000;occ; 78; 0;31948  
 20; 2956.1; 10-APR-2008 00:06:22; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;31948  
 21; 3441.8; 10-APR-2008 00:14:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31948  
 22; 3852.7; 10-APR-2008 00:21:19; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;31948  
 23; 3932.8; 10-APR-2008 00:22:39; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;31948  
 24; 4463.0; 10-APR-2008 00:31:29; Bright; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;31948  
 25; 5017.7; 10-APR-2008 00:40:44; Dark ; 43.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 87; 0;31948  
 26; 5309.1; 10-APR-2008 00:45:35; Dark ; 31.0; 142; 49Del Cap ; 2.85; 8900;occ; 62; 0;31948

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1; -2186.2; 09-APR-2008 07:35:16; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0;31938  
 2; -2104.7; 09-APR-2008 07:36:38; Bright; 34.5; 74; 11Bet Cas ; 2.27; 6600;occ; 69; 0;31938  
 3; -1574.4; 09-APR-2008 07:45:28; Bright; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;31938  
 4; -1021.6; 09-APR-2008 07:54:41; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;31938  
 5; -731.4; 09-APR-2008 07:59:31; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;31938  
 6; -589.2; 09-APR-2008 08:01:53; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;31938

7; -405.3; 09-APR-2008 08:04:57; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;31938  
8; -271.5; 09-APR-2008 08:07:11; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;31938  
9; -116.9; 09-APR-2008 08:09:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31938  
10; 8.5; 09-APR-2008 08:11:51; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;31939  
11; 458.0; 09-APR-2008 08:19:21; Dark ; 43.0; 43; Alp TrA ; 1.91; 4250;occ; 86; 0;31939  
12; 578.5; 09-APR-2008 08:21:21; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31939  
13; 729.3; 09-APR-2008 08:23:52; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;31939  
14; 837.8; 09-APR-2008 08:25:40; Dark ; 37.0; 12; Alp1Cru ; 0.77; 30000;occ; 74; 0;31939  
15; 929.1; 09-APR-2008 08:27:12; Dark ; 43.5; 26; Gam Cru ; 1.62; 2900;occ; 87; 0;31939  
16; 1050.2; 09-APR-2008 08:29:13; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;31939  
17; 1212.0; 09-APR-2008 08:31:55; Dark ; 41.0; 123; Tot Cen ; 2.75; 10200;occ; 82; 0;31939  
18; 1483.9; 09-APR-2008 08:36:27; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31939  
19; 1595.9; 09-APR-2008 08:38:18; Dark ; 39.0; 100; 4Gam Crv ; 2.58; 13100;occ; 78; 0;31939

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1; 2155.6; 09-APR-2008 08:47:38; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;31939  
2; 2264.0; 09-APR-2008 08:49:27; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31939  
3; 2665.6; 09-APR-2008 08:56:08; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;31939  
4; 2826.9; 09-APR-2008 08:58:49; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;31939  
5; 2956.0; 09-APR-2008 09:00:59; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31939  
6; 3441.7; 09-APR-2008 09:09:04; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;31939  
7; 3849.9; 09-APR-2008 09:15:53; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;31939  
8; 3931.4; 09-APR-2008 09:17:14; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;31939  
9; 4461.6; 09-APR-2008 09:26:04; Bright; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;31939  
10; 5014.5; 09-APR-2008 09:35:17; Dark ; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;31939  
11; 5304.9; 09-APR-2008 09:40:07; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;31939  
12; 5446.8; 09-APR-2008 09:42:29; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;31939  
13; 5631.0; 09-APR-2008 09:45:34; Dark ; 39.5; 172; Gam Gru ; 3.00; 13100;occ; 79; 0;31939  
14; 5764.7; 09-APR-2008 09:47:47; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;31939  
15; 5919.4; 09-APR-2008 09:50:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31939  
16; 6044.7; 09-APR-2008 09:52:27; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;31939  
17; 6494.4; 09-APR-2008 09:59:57; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;31939  
18; 6614.9; 09-APR-2008 10:01:57; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;31939  
19; 6765.5; 09-APR-2008 10:04:28; Dark ; 53.5; 4; Alp1Cen ;-0.01; 5800;occ; 107; 0;31939  
20; 6873.9; 09-APR-2008 10:06:16; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;31939  
21; 6965.1; 09-APR-2008 10:07:48; Dark ; 44.0; 26; Gam Cru ; 1.62; 2900;occ; 88; 0;31939  
22; 7086.3; 09-APR-2008 10:09:49; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;31939  
23; 7248.1; 09-APR-2008 10:12:31; Dark ; 38.0; 123; Tot Cen ; 2.75; 10200;occ; 76; 0;31939  
24; 7520.0; 09-APR-2008 10:17:03; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31939  
25; 7631.9; 09-APR-2008 10:18:54; Dark ; 39.5; 100; 4Gam Crv ; 2.58; 13100;occ; 79; 0;31939

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1; 2155.4; 09-APR-2008 10:28:14; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;31940  
2; 2264.0; 09-APR-2008 10:30:02; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31940  
3; 2665.6; 09-APR-2008 10:36:44; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;31940  
4; 2826.9; 09-APR-2008 10:39:25; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31940  
5; 2955.9; 09-APR-2008 10:41:34; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;31940  
6; 3441.7; 09-APR-2008 10:49:40; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;31940  
7; 3850.2; 09-APR-2008 10:56:29; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;31940  
8; 3931.5; 09-APR-2008 10:57:50; Bright; 33.0; 74; 11Bet Cas ; 2.27; 6600;occ; 66; 0;31940  
9; 4461.7; 09-APR-2008 11:06:40; Bright; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;31940  
10; 5014.8; 09-APR-2008 11:15:53; Dark ; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;31940  
11; 5305.4; 09-APR-2008 11:20:44; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;31940  
12; 5447.0; 09-APR-2008 11:23:05; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;31940  
13; 5631.4; 09-APR-2008 11:26:10; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;31940  
14; 5764.8; 09-APR-2008 11:28:23; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;31940  
15; 5919.9; 09-APR-2008 11:30:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31940  
16; 6045.3; 09-APR-2008 11:33:04; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;31940  
17; 6494.7; 09-APR-2008 11:40:33; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;31940  
18; 6615.4; 09-APR-2008 11:42:34; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31940  
19; 6766.0; 09-APR-2008 11:45:04; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;31940  
20; 6874.0; 09-APR-2008 11:46:52; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;31940  
21; 6965.3; 09-APR-2008 11:48:24; Dark ; 46.0; 26; Gam Cru ; 1.62; 2900;occ; 92; 0;31940  
22; 7086.5; 09-APR-2008 11:50:25; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;31940  
23; 7248.3; 09-APR-2008 11:53:07; Dark ; 40.5; 123; Tot Cen ; 2.75; 10200;occ; 81; 0;31940  
24; 7520.1; 09-APR-2008 11:57:39; Dark ; 40.5; 106; 9Bet Crv ; 2.65; 5600;occ; 81; 0;31940  
25; 7632.1; 09-APR-2008 11:59:31; Dark ; 38.5; 100; 4Gam Crv ; 2.58; 13100;occ; 77; 0;31940

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1; 1605.3; 09-APR-2008 11:59:40; Dark ; 39.0; 100; 4Gam Crv ; 2.58; 13100;occ; 78; 18;31941  
2; 2155.5; 09-APR-2008 12:08:50; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;31941

3;	2264.0;	09-APR-2008	12:10:38;	Bright;	35.5;	96;	68Del Leo	;	2.56;	9300;occ;	71;	0;	31941	
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	
10;	4461.9;	09-APR-2008	12:47:16;	Bright;	34.5;	164;	44Eta Peg	;	2.95;	5400;occ;	69;	0;	31941	
11;	5015.3;	09-APR-2008	12:56:30;	Dark	;	43.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	86;	0;	31941
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
14;	5631.7;	09-APR-2008	13:06:46;	Dark	;	38.0;	172;	Gam Gru	;	3.00;	13100;occ;	76;	0;	31941
15;	5765.1;	09-APR-2008	13:08:59;	Dark	;	38.0;	31;	Alp Gru	;	1.73;	15200;occ;	76;	0;	31941
16;	5920.4;	09-APR-2008	13:11:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	31941
17;	6045.7;	09-APR-2008	13:13:40;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;	31941
18;	6495.2;	09-APR-2008	13:21:09;	Dark	;	39.5;	43;	Alp TrA	;	1.91;	4250;occ;	79;	0;	31941
19;	6615.9;	09-APR-2008	13:23:10;	Dark	;	41.0;	134;	Bet TrA	;	2.81;	6600;occ;	82;	0;	31941
20;	6766.5;	09-APR-2008	13:25:41;	Dark	;	48.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	96;	0;	31941
21;	6874.2;	09-APR-2008	13:27:28;	Dark	;	38.0;	12;	Alp1Cru	;	0.77;	30000;occ;	76;	0;	31941
22;	6965.5;	09-APR-2008	13:29:00;	Dark	;	48.5;	26;	Gam Cru	;	1.62;	2900;occ;	97;	0;	31941
23;	7086.8;	09-APR-2008	13:31:01;	Dark	;	38.5;	64;	Gam Cen	;	2.20;	10600;occ;	77;	0;	31941
24;	7248.7;	09-APR-2008	13:33:43;	Dark	;	42.0;	123;	Iot Cen	;	2.75;	10200;occ;	84;	0;	31941
25;	7520.3;	09-APR-2008	13:38:15;	Dark	;	44.5;	106;	9Bet Crv	;	2.65;	5600;occ;	89;	0;	31941
26;	7632.3;	09-APR-2008	13:40:07;	Dark	;	16.5;	100;	4Gam Crv	;	2.58;	13100;occ;	33;	0;	31941
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2;	2155.6;	09-APR-2008	13:49:26;	Bright;	35.5;	62;	94Bet Leo	;	2.14;	9700;occ;	71;	0;	31942	
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 9; 3934.1; 10-APR-2008 13:47:27; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;31956  
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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  
 7; 2824.8; 10-APR-2008 16:50:10; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31958

8; 2956.6; 10-APR-2008 16:52:21; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;31958  
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9; 2672.8; 14-APR-2008 21:23:33; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;32018  
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16; 5955.9; 14-APR-2008 08:53:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32010
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23;	6935.1;	17-APR-2008	12:36:44;	Dark	; 42.0;	20;	Bet Cru	; 1.25;	30000;occ;	84;	0;	32055
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19; 5998.2; 19-APR-2008 19:40:53; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;32088  
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23; 6821.3; 19-APR-2008 19:54:36; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;32088  
24; 6940.7; 19-APR-2008 19:56:35; Dark ; 37.0; 20; Bet Cru ; 1.25; 30000;occ; 74; 0;32088

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2;	-339.8;	20-APR-2008	00:37:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32091
3;	-220.9;	20-APR-2008	00:39:37;	Dark	;	42.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	84;	0;	32091
4;	-37.1;	20-APR-2008	00:42:41;	Dark	;	41.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	82;	0;	32091
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
8;	786.2;	20-APR-2008	00:56:24;	Dark	;	53.0;	4;	Alp1	Cen	;	-0.01;	5800;	occ;	106;	0;	32092
9;	905.2;	20-APR-2008	00:58:23;	Dark	;	41.5;	20;	Bet	Cru	;	1.25;	30000;	occ;	83;	0;	32092
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11;	1253.7;	20-APR-2008	01:04:12;	Dark	;	38.0;	123;	Iot	Cen	;	2.75;	10200;	occ;	76;	0;	32092
12;	1510.4;	20-APR-2008	01:08:29;	Dark	;	39.0;	106;	9Bet	Crv	;	2.65;	5600;	occ;	78;	0;	32092
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
15;	2168.4;	20-APR-2008	01:19:26;	Bright;	;	35.0;	62;	94Bet	Leo	;	2.14;	9700;	occ;	70;	0;	32092
16;	2292.7;	20-APR-2008	01:21:31;	Bright;	;	35.5;	96;	68Del	Leo	;	2.56;	9300;	occ;	71;	0;	32092
17;	2685.3;	20-APR-2008	01:28:03;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	72;	0;	32092
18;	2819.4;	20-APR-2008	01:30:17;	Bright;	;	35.5;	87;	64Gam	UMa	;	2.43;	11000;	occ;	71;	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
24;	4732.4;	20-APR-2008	02:02:11;	Dark	;	42.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	84;	0;	32092
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2;	-339.7;	20-APR-2008	02:18:14;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32092
3;	-220.6;	20-APR-2008	02:20:13;	Dark	;	39.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	78;	0;	32092
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
7;	648.7;	20-APR-2008	02:34:43;	Dark	;	39.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	78;	0;	32093
8;	786.7;	20-APR-2008	02:37:01;	Dark	;	53.0;	4;	Alp1	Cen	;	-0.01;	5800;	occ;	106;	0;	32093
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11;	1254.0;	20-APR-2008	02:44:48;	Dark	;	38.5;	123;	Iot	Cen	;	2.75;	10200;	occ;	77;	0;	32093
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
14;	1879.0;	20-APR-2008	02:55:13;	Bright;	;	37.0;	121;	29Gam	Vir	;	2.74;	7200;	occ;	74;	0;	32093
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
17;	2685.5;	20-APR-2008	03:08:39;	Bright;	;	35.5;	174;	52Psi	UMa	;	3.00;	4400;	occ;	71;	0;	32093
18;	2819.7;	20-APR-2008	03:10:54;	Bright;	;	33.0;	87;	64Gam	UMa	;	2.43;	11000;	occ;	66;	0;	32093
19;	2968.2;	20-APR-2008	03:13:22;	Bright;	;	36.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	73;	0;	32093
20;	3443.4;	20-APR-2008	03:21:17;	Bright;	;	33.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	66;	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
5;	-553.9;	20-APR-2008	03:55:16;	Dark	;	43.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	86;	0;	32093
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
8;	-36.4;	20-APR-2008	04:03:53;	Dark	;	44.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	88;	0;	32093
9;	89.5;	20-APR-2008	04:05:59;	Dark	;	39.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	79;	0;	32094
10;	520.8;	20-APR-2008	04:13:11;	Dark	;	40.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	81;	0;	32094
11;	649.3;	20-APR-2008	04:15:19;	Dark	;	38.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	76;	0;	32094
12;	787.2;	20-APR-2008	04:17:37;	Dark	;	48.0;	4;	Alp1	Cen	;	-0.01;	5800;	occ;	96;	0;	32094
13;	905.8;	20-APR-2008	04:19:36;	Dark	;	39.5;	20;	Bet	Cru	;	1.25;	30000;	occ;	79;	0;	32094
14;	1083.9;	20-APR-2008	04:22:34;	Dark	;	38.5;	64;	Gam	Cen	;	2.20;	10600;	occ;	77;	0;	32094
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21;	2685.9;	20-APR-2008	04:49:16;	Bright;	;	36.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	72;	0;	32094

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23; 2968.4; 20-APR-2008 04:53:58; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;32094
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17; 1629.2; 20-APR-2008 06:12:15; Bright; 35.0; 163; 7Del Crv ; 2.94; 11000;occ; 70; 0;32095
18; 1879.3; 20-APR-2008 06:16:25; Bright; 37.5; 121; 29Gam Vir ; 2.74; 7200;occ; 75; 0;32095
19; 2169.0; 20-APR-2008 06:21:15; Bright; 34.0; 62; 94Bet Leo ; 2.14; 9700;occ; 68; 0;32095
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22; 2819.8; 20-APR-2008 06:32:06; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;32095
23; 2968.5; 20-APR-2008 06:34:34; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;32095
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3; 1256.6; 20-APR-2008 21:11:26; Dark ; 38.5; 123; Iot Cen ; 2.75; 10200;occ; 77; 0;32104
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6; -339.3; 20-APR-2008 07:20:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32095
7; -219.1; 20-APR-2008 07:22:03; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;32095
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9; 90.6; 20-APR-2008 07:27:12; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;32096
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8; 699.9; 28-APR-2008 23:31:37; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32220
9; 825.9; 28-APR-2008 23:33:43; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;32220
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13; 1249.8; 28-APR-2008 23:40:47; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;32220
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15; 1709.4; 28-APR-2008 23:48:26; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;32220
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17; 2094.4; 28-APR-2008 23:54:52; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32220
18; 2195.8; 28-APR-2008 23:56:33; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32220
19; 2560.3; 29-APR-2008 00:02:37; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;32220
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21; 2829.4; 29-APR-2008 00:07:07; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;32220
22; 2910.4; 29-APR-2008 00:08:27; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;32220
23; 2990.5; 29-APR-2008 00:09:48; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32220
24; 3444.6; 29-APR-2008 00:17:22; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;32220
25; 3914.2; 29-APR-2008 00:25:11; Bright; 31.5; 110; 37Del Cas ; 2.68; 8900;occ; 63; 0;32220
26; 3997.9; 29-APR-2008 00:26:35; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;32220
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 16; 6197.6; 28-APR-2008 13:19:03; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32213  
 17; 6602.3; 28-APR-2008 13:25:48; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;32213  
 18; 6733.6; 28-APR-2008 13:27:59; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;32213  
 19; 6860.2; 28-APR-2008 13:30:06; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;32213  
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 21; 7063.8; 28-APR-2008 13:33:29; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;32213  
 22; 7156.9; 28-APR-2008 13:35:02; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;32213  
 23; 7284.1; 28-APR-2008 13:37:10; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;32213  
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 7; 2717.7; 28-APR-2008 14:01:39; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32214  
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 23; 7064.2; 28-APR-2008 15:14:06; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;32214  
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17; 6035.9; 28-APR-2008 16:37:33; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;32215  
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 22; 6861.2; 28-APR-2008 18:31:55; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;32216  
 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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 15; 3913.8; 28-APR-2008 19:23:23; Bright; 32.0; 110; 37Del Cas ; 2.68; 8900;occ; 64; 0;32217  
 16; 3997.7; 28-APR-2008 19:24:47; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;32217  
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23; 3444.8; 30-APR-2008 23:14:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32248
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4; -145.2; 30-APR-2008 23:54:54; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;32248
5; 11.1; 30-APR-2008 23:57:30; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;32249
6; 578.9; 01-MAY-2008 00:06:58; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;32249
7; 710.7; 01-MAY-2008 00:09:10; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32249
8; 833.7; 01-MAY-2008 00:11:13; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;32249
9; 925.5; 01-MAY-2008 00:12:45; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;32249
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11; 1131.6; 01-MAY-2008 00:16:11; Dark ; 40.5; 81; Eta Cen ; 2.36; 28000;occ; 81; 0;32249
12; 1256.9; 01-MAY-2008 00:18:16; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;32249
13; 1513.5; 01-MAY-2008 00:22:33; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;32249
14; 1712.7; 01-MAY-2008 00:25:52; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;32249
15; 1897.2; 01-MAY-2008 00:28:56; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;32249
16; 2096.0; 01-MAY-2008 00:32:15; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32249
17; 2204.2; 01-MAY-2008 00:34:03; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32249
18; 2559.7; 01-MAY-2008 00:39:59; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;32249
19; 2729.4; 01-MAY-2008 00:42:49; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;32249
20; 2833.6; 01-MAY-2008 00:44:33; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;32249
21; 2918.4; 01-MAY-2008 00:45:58; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;32249
22; 2997.1; 01-MAY-2008 00:47:16; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32249
23; 3444.8; 01-MAY-2008 00:54:44; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;32249
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25; 4000.9; 01-MAY-2008 01:04:00; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;32249
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6; -150.6; 30-APR-2008 07:08:49; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;32238
7; 7.7; 30-APR-2008 07:11:28; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;32239
8; 177.7; 30-APR-2008 07:14:18; Dark ; 36.0; 45; Alp Pav ; 1.94; 26000;occ; 72; 0;32239
9; 575.5; 30-APR-2008 07:20:55; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;32239
10; 707.1; 30-APR-2008 07:23:07; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32239
11; 831.3; 30-APR-2008 07:25:11; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;32239
12; 924.7; 30-APR-2008 07:26:45; Dark ; 40.0; 20; Bet Cru ; 1.25; 30000;occ; 80; 0;32239
13; 1036.1; 30-APR-2008 07:28:36; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;32239
14; 1129.0; 30-APR-2008 07:30:09; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;32239
15; 1254.6; 30-APR-2008 07:32:15; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;32239
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4; 2201.4; 30-APR-2008 07:48:01; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32239  
5; 2559.9; 30-APR-2008 07:54:00; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;32239  
6; 2726.0; 30-APR-2008 07:56:46; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;32239  
7; 2832.1; 30-APR-2008 07:58:32; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;32239  
8; 2915.6; 30-APR-2008 07:59:56; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;32239  
9; 2994.9; 30-APR-2008 08:01:15; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32239  
10; 3444.8; 30-APR-2008 08:08:45; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;32239  
11; 3917.3; 30-APR-2008 08:16:37; Bright; 44.0; 110; 37Del Cas ; 2.68; 8900;occ; 88; 0;32239  
12; 3999.9; 30-APR-2008 08:18:00; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;32239  
13; 5243.3; 30-APR-2008 08:38:43; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;32239  
14; 5540.2; 30-APR-2008 08:43:40; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;32239  
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16; 5885.9; 30-APR-2008 08:49:26; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;32239  
17; 6044.0; 30-APR-2008 08:52:04; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;32239  
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19; 6611.8; 30-APR-2008 09:01:32; Dark ; 37.0; 43; Alp TrA ; 1.91; 4250;occ; 74; 0;32239  
20; 6743.3; 30-APR-2008 09:03:43; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32239  
21; 6867.5; 30-APR-2008 09:05:47; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;32239  
22; 6960.7; 30-APR-2008 09:07:21; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;32239  
23; 7072.5; 30-APR-2008 09:09:12; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;32239  
24; 7165.1; 30-APR-2008 09:10:45; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;32239  
25; 7290.7; 30-APR-2008 09:12:51; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;32239  
26; 7548.2; 30-APR-2008 09:17:08; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;32239  
27; 7747.7; 30-APR-2008 09:20:28; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;32239

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4; 2201.7; 30-APR-2008 09:28:38; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;32240  
5; 2559.8; 30-APR-2008 09:34:36; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;32240  
6; 2726.4; 30-APR-2008 09:37:22; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;32240  
7; 2832.2; 30-APR-2008 09:39:08; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;32240  
8; 2915.9; 30-APR-2008 09:40:32; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;32240  
9; 2995.1; 30-APR-2008 09:41:51; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;32240  
10; 3444.8; 30-APR-2008 09:49:21; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32240  
11; 3917.6; 30-APR-2008 09:57:14; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;32240  
12; 4000.0; 30-APR-2008 09:58:36; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;32240  
13; 5243.4; 30-APR-2008 10:19:19; Dark ; 41.0; 52; 16Bet Cet ; 2.04; 4500;occ; 82; 0;32240  
14; 5540.6; 30-APR-2008 10:24:17; Dark ; 41.0; 18; 24Alp PsA ; 1.17; 9700;occ; 82; 0;32240  
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16; 5886.3; 30-APR-2008 10:30:02; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;32240  
17; 6044.3; 30-APR-2008 10:32:40; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;32240  
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19; 6612.0; 30-APR-2008 10:42:08; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;32240  
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23; 7072.7; 30-APR-2008 10:49:49; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;32240  
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4; 2201.8; 30-APR-2008 11:09:14; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;32241  
5; 2559.7; 30-APR-2008 11:15:12; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;32241  
6; 2726.6; 30-APR-2008 11:17:58; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;32241  
7; 2832.3; 30-APR-2008 11:19:44; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;32241  
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9; 2995.2; 30-APR-2008 11:22:27; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;32241  
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 23; 7072.9; 30-APR-2008 12:30:25; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;32241  
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 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  
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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  
 24; 7073.6; 30-APR-2008 15:51:37; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;32243  
 25; 7166.4; 30-APR-2008 15:53:10; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;32243  
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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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10; 2728.1; 30-APR-2008 18:00:24; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32245
11; 2833.0; 30-APR-2008 18:02:09; Bright; 50.0; 87; 64Gam UMa ; 2.43; 11000;occ; 100; 0;32245
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23; 6745.7; 30-APR-2008 19:07:21; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32245
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8; 2095.8; 30-APR-2008 19:30:27; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32246
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12; 2833.1; 30-APR-2008 19:42:45; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;32246
13; 2917.6; 30-APR-2008 19:44:09; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 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
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24;	6746.0;	30-APR-2008	20:47:58;	Dark	;	36.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	73;	0;	32246
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26;	6961.2;	30-APR-2008	20:51:33;	Dark	;	38.5;	20;	Bet	Cru	;	1.25;	30000;	occ;	77;	0;	32246