

# GOMOS Daily Report 02-NOV-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	04NOV2008 05:41:56
Data source version	GOMOS/5.00
Start time of products	02NOV2008 00:02:04
Stop time of products	02NOV2008 05:32:33
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)

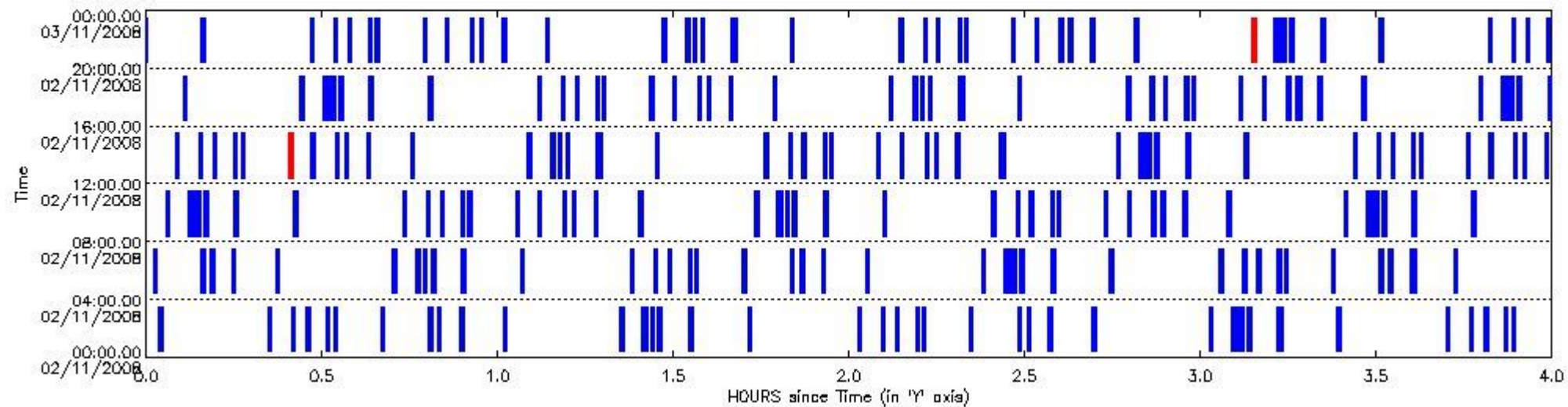
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

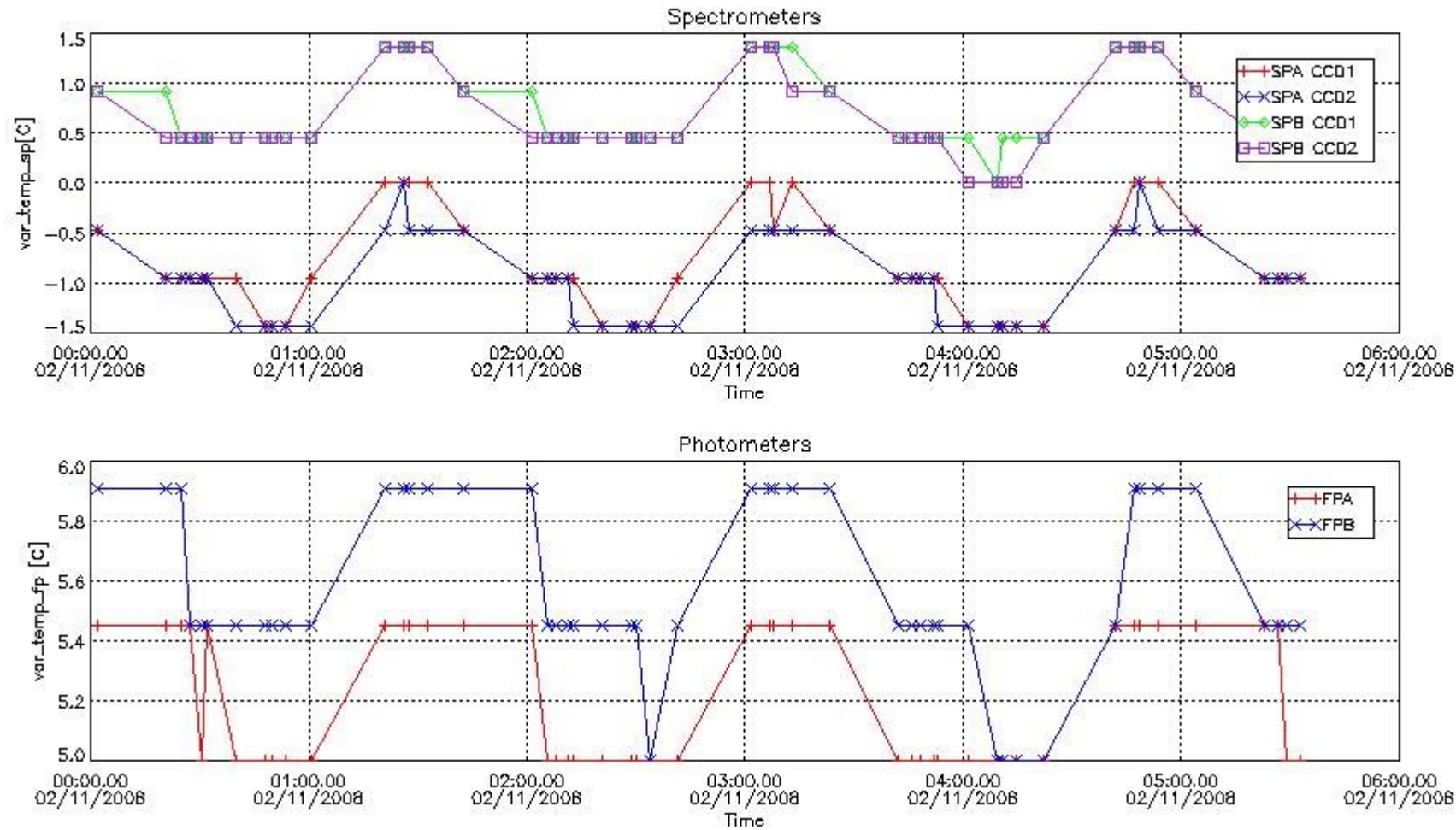
UTC start time	Star name	Star ID	Orbit
02-NOV-2008 12:24:13	1AlpUMi	49	34904
02-NOV-2008 23:08:43	MuVel	113	34910

### 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_1PNPDE20081102_000204_000000402073_00274_34897_8200.N1	02-NOV-2008 00:02:04	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	34897	No
2	GOM_TRA_1PNPDE20081102_002047_000000372073_00274_34897_8201.N1	02-NOV-2008 00:20:47	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	34897	No
3	GOM_TRA_1PNPDE20081102_002451_000000372073_00274_34897_8202.N1	02-NOV-2008 00:24:51	Bright	37.000	53	43Bet And	2.0480	3300.0	74	34897	No
4	GOM_TRA_1PNPDE20081102_002713_000000412073_00274_34897_8203.N1	02-NOV-2008 00:27:13	Bright	40.500	73	57Gam1And	2.2600	13100.	81	34897	No
5	GOM_TRA_1PNPDE20081102_003045_000000362073_00274_34897_8204.N1	02-NOV-2008 00:30:45	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	34897	No
6	GOM_TRA_1PNPDE20081102_003155_000000362073_00274_34897_8205.N1	02-NOV-2008 00:31:55	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	34897	No
7	GOM_TRA_1PNPDE20081102_004000_000000332073_00274_34897_8206.N1	02-NOV-2008 00:40:00	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	34897	No
8	GOM_TRA_1PNPDE20081102_004807_000000402073_00274_34897_8207.N1	02-NOV-2008 00:48:07	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	34897	No
9	GOM_TRA_1PNPDE20081102_004944_000000392073_00274_34897_8208.N1	02-NOV-2008 00:49:44	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	34897	No

10	GOM_TRA_1PNPDE20081102_005326_000000572073_00274_34897_8209.N1	02-NOV-2008 00:53:26	Bright	57.000	174	52Psi UMa	3.0040	4400.0	114	34897	No
11	GOM_TRA_1PNPDE20081102_010055_000000372073_00274_34897_8210.N1	02-NOV-2008 01:00:55	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	34897	No
12	GOM_TRA_1PNPDE20081102_012049_000000422073_00274_34897_8346.N1	02-NOV-2008 01:20:49	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	34897	No
13	GOM_TRA_1PNPDE20081102_012601_000000402073_00275_34898_8347.N1	02-NOV-2008 01:26:01	Dark	40.000	46	Del Vel	1.9540	10600.	80	34898	No
14	GOM_TRA_1PNPDE20081102_012720_000000492073_00275_34898_8348.N1	02-NOV-2008 01:27:20	Dark	48.500	41	Eps Car	1.8600	4100.0	97	34898	No
15	GOM_TRA_1PNPDE20081102_013231_000000492073_00275_34898_8349.N1	02-NOV-2008 01:32:31	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	34898	No
16	GOM_TRA_1PNPDE20081102_014240_000000412073_00275_34898_8350.N1	02-NOV-2008 01:42:40	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	34898	No
17	GOM_TRA_1PNPDE20081102_020123_000000372073_00275_34898_8351.N1	02-NOV-2008 02:01:23	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	34898	No
18	GOM_TRA_1PNPDE20081102_020527_000000382073_00275_34898_8352.N1	02-NOV-2008 02:05:27	Bright	37.500	53	43Bet And	2.0480	3300.0	75	34898	No
19	GOM_TRA_1PNPDE20081102_020748_000000402073_00275_34898_8353.N1	02-NOV-2008 02:07:48	Bright	40.000	73	57Gam1And	2.2600	13100.	80	34898	No
20	GOM_TRA_1PNPDE20081102_021121_000000342073_00275_34898_8354.N1	02-NOV-2008 02:11:21	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	34898	No
21	GOM_TRA_1PNPDE20081102_021231_000000332073_00275_34898_8355.N1	02-NOV-2008 02:12:31	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	34898	No
22	GOM_TRA_1PNPDE20081102_022036_000000342073_00275_34898_8356.N1	02-NOV-2008 02:20:36	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	34898	No
23	GOM_TRA_1PNPDE20081102_022843_000000402073_00275_34898_8518.N1	02-NOV-2008 02:28:43	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	34898	No
24	GOM_TRA_1PNPDE20081102_023020_000000392073_00275_34898_8519.N1	02-NOV-2008 02:30:20	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	34898	No
25	GOM_TRA_1PNPDE20081102_023402_000000372073_00275_34898_8520.N1	02-NOV-2008 02:34:02	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	34898	No
26	GOM_TRA_1PNPDE20081102_024131_000000402073_00275_34898_8521.N1	02-NOV-2008 02:41:31	Bright	39.500	96	68Del Leo	2.5600	9300.0	79	34898	No
27	GOM_TRA_1PNPDE20081102_030125_000000412073_00275_34898_8522.N1	02-NOV-2008 03:01:25	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	34898	No
28	GOM_TRA_1PNPDE20081102_030638_000000412073_00276_34899_8523.N1	02-NOV-2008 03:06:38	Dark	41.000	46	Del Vel	1.9540	10600.	82	34899	No
29	GOM_TRA_1PNPDE20081102_030757_000000422073_00276_34899_8524.N1	02-NOV-2008 03:07:57	Dark	42.000	41	Eps Car	1.8600	4100.0	84	34899	No
30	GOM_TRA_1PNPDE20081102_031308_000000602073_00276_34899_8525.N1	02-NOV-2008 03:13:08	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	34899	No
31	GOM_TRA_1PNPDE20081102_032316_000000412073_00276_34899_8526.N1	02-NOV-2008 03:23:16	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	34899	No
32	GOM_TRA_1PNPDE20081102_034159_000000392073_00276_34899_8527.N1	02-NOV-2008 03:41:59	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	34899	No
33	GOM_TRA_1PNPDE20081102_034602_000000362073_00276_34899_8528.N1	02-NOV-2008 03:46:02	Bright	36.000	53	43Bet And	2.0480	3300.0	72	34899	No
34	GOM_TRA_1PNPDE20081102_034824_000000402073_00276_34899_8529.N1	02-NOV-2008 03:48:24	Bright	40.000	73	57Gam1And	2.2600	13100.	80	34899	No
35	GOM_TRA_1PNPDE20081102_035157_000000352073_00276_34899_8530.N1	02-NOV-2008 03:51:57	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	34899	No
36	GOM_TRA_1PNPDE20081102_035307_000000352073_00276_34899_8531.N1	02-NOV-2008 03:53:07	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	34899	No
37	GOM_TRA_1PNPDE20081102_040112_000000332073_00276_34899_8532.N1	02-NOV-2008 04:01:12	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	34899	No
38	GOM_TRA_1PNPDE20081102_040919_000000402073_00276_34899_8696.N1	02-NOV-2008 04:09:19	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	34899	No
39	GOM_TRA_1PNPDE20081102_041056_000000382073_00276_34899_8697.N1	02-NOV-2008 04:10:56	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	34899	No
40	GOM_TRA_1PNPDE20081102_041438_000000372073_00276_34899_8698.N1	02-NOV-2008 04:14:38	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	34899	No
41	GOM_TRA_1PNPDE20081102_042207_000000382073_00276_34899_8699.N1	02-NOV-2008 04:22:07	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34899	No
42	GOM_TRA_1PNPDE20081102_044201_000000392073_00276_34899_8700.N1	02-NOV-2008 04:42:01	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	34899	No
43	GOM_TRA_1PNPDE20081102_044714_000000422073_00277_34900_8701.N1	02-NOV-2008 04:47:14	Dark	41.500	46	Del Vel	1.9540	10600.	83	34900	No
44	GOM_TRA_1PNPDE20081102_044833_000000462073_00277_34900_8702.N1	02-NOV-2008 04:48:33	Dark	46.000	41	Eps Car	1.8600	4100.0	92	34900	No
45	GOM_TRA_1PNPDE20081102_045345_000000562073_00277_34900_8703.N1	02-NOV-2008 04:53:45	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	34900	No
46	GOM_TRA_1PNPDE20081102_050353_000000412073_00277_34900_8704.N1	02-NOV-2008 05:03:53	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	34900	No
47	GOM_TRA_1PNPDE20081102_052235_000000392073_00277_34900_8705.N1	02-NOV-2008 05:22:35	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	34900	No
48	GOM_TRA_1PNPDE20081102_052638_000000372073_00277_34900_8706.N1	02-NOV-2008 05:26:38	Bright	36.500	53	43Bet And	2.0480	3300.0	73	34900	No
49	GOM_TRA_1PNPDE20081102_052900_000000402073_00277_34900_8707.N1	02-NOV-2008 05:29:00	Bright	39.500	73	57Gam1And	2.2600	13100.	79	34900	No
50	GOM_TRA_1PNPDE20081102_053233_000000352073_00277_34900_8708.N1	02-NOV-2008 05:32:33	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	34900	No

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



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

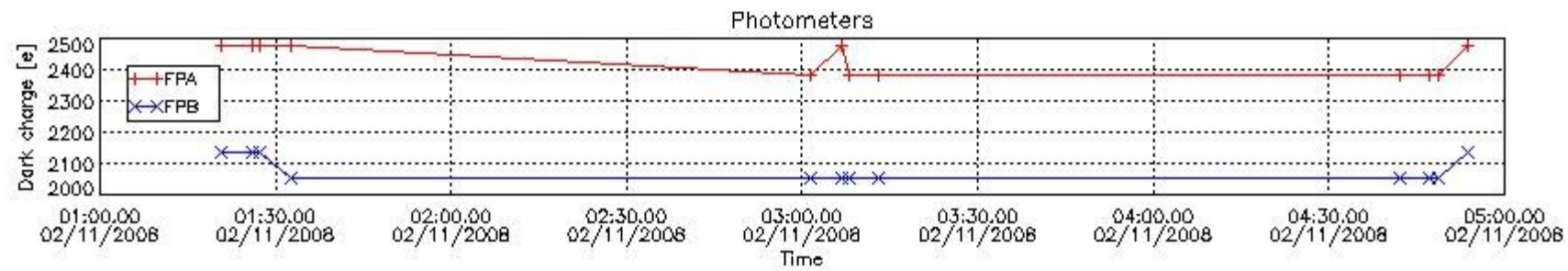
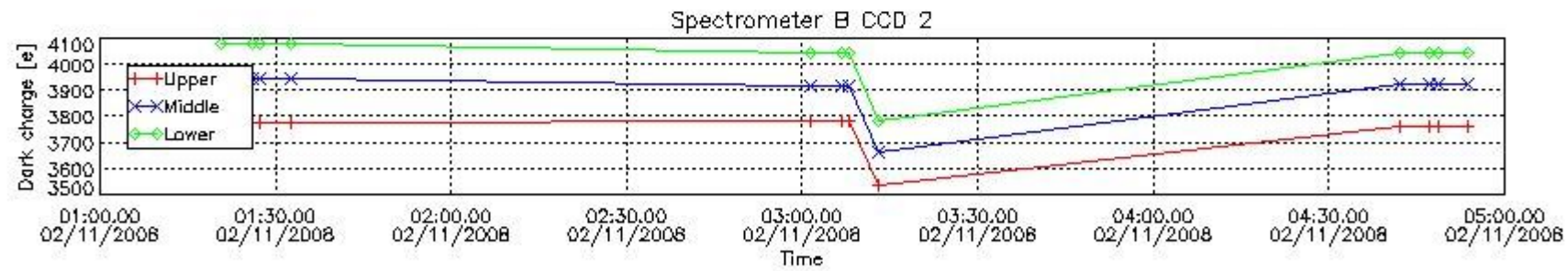
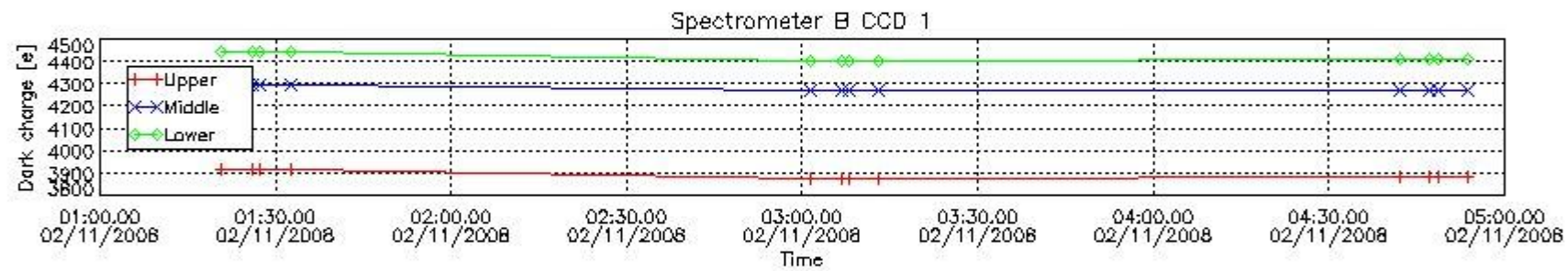
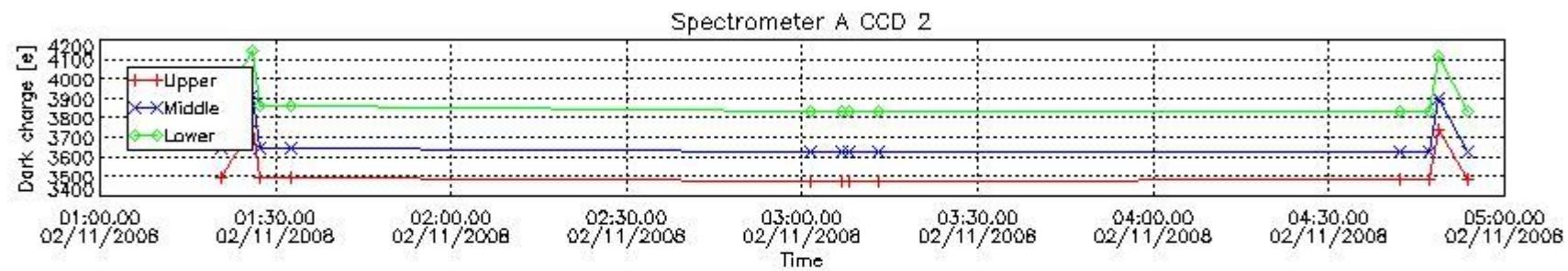
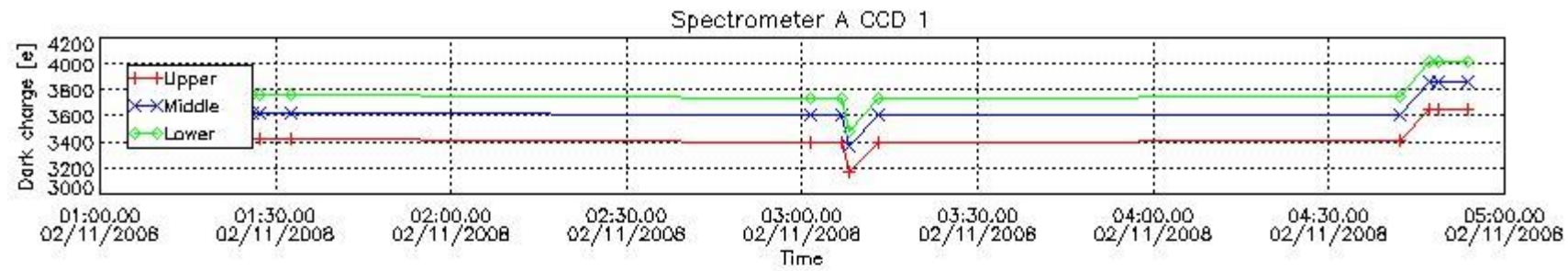
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

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





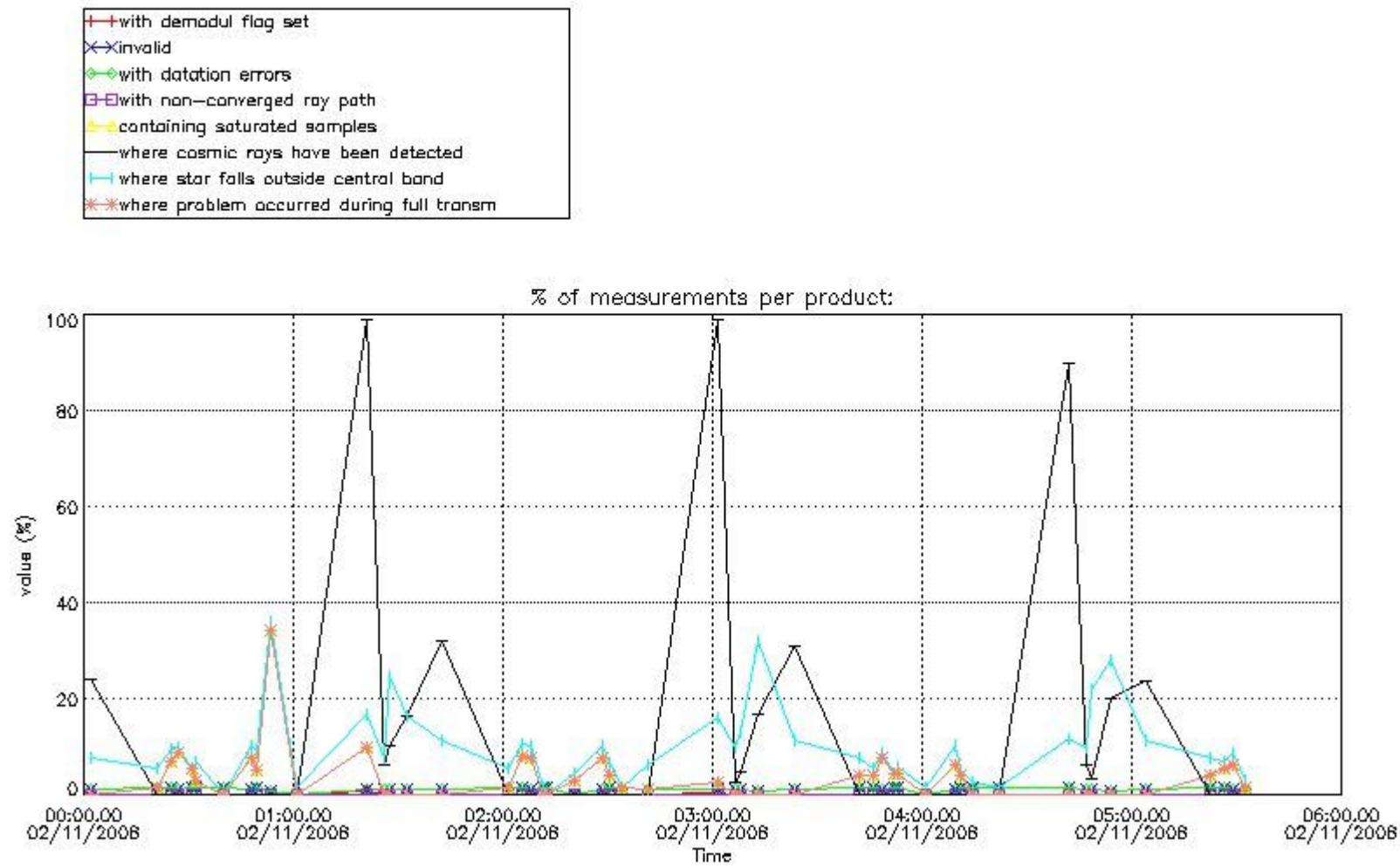
## 5. Demodulation flag and quality information monitoring

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

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

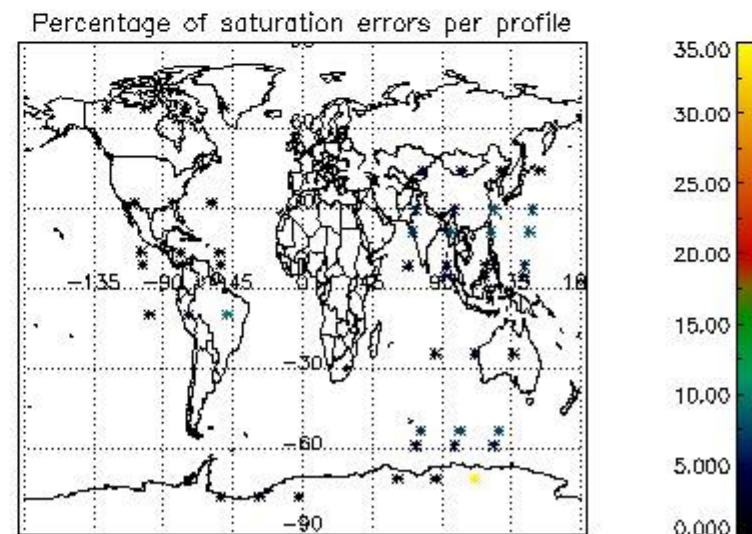
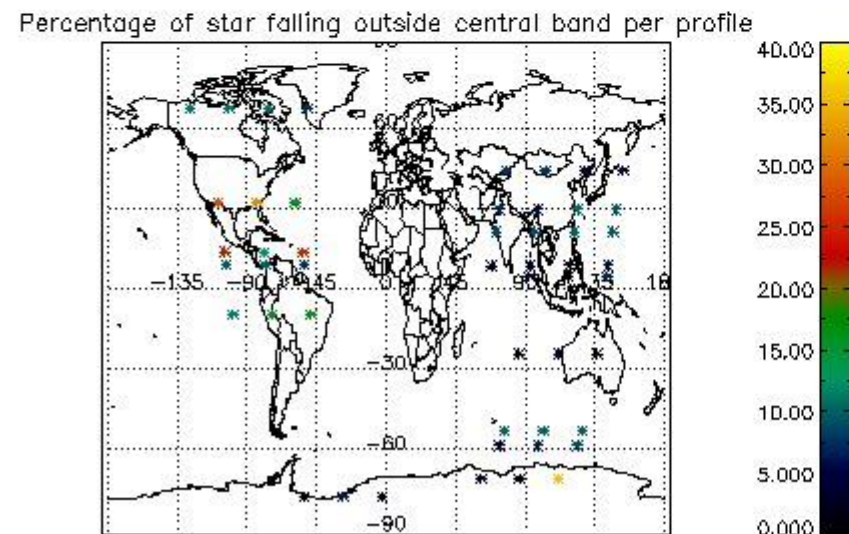
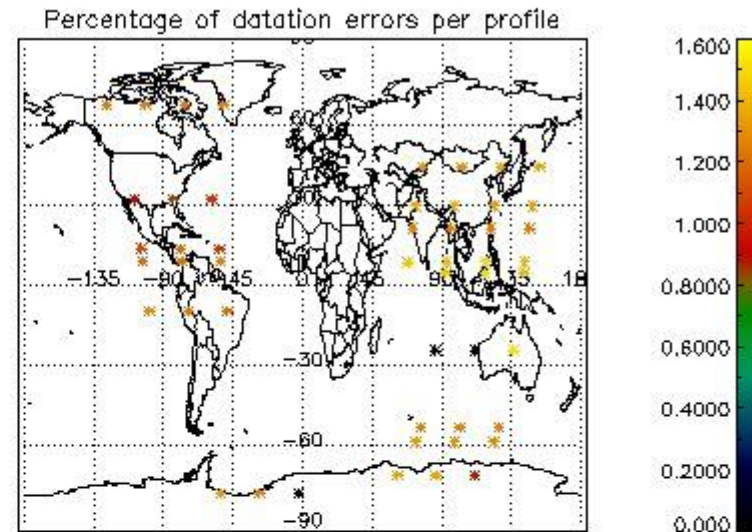
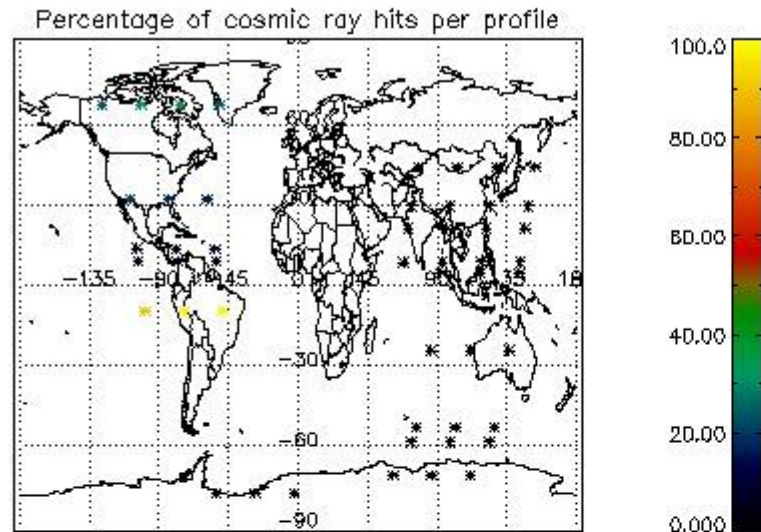
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





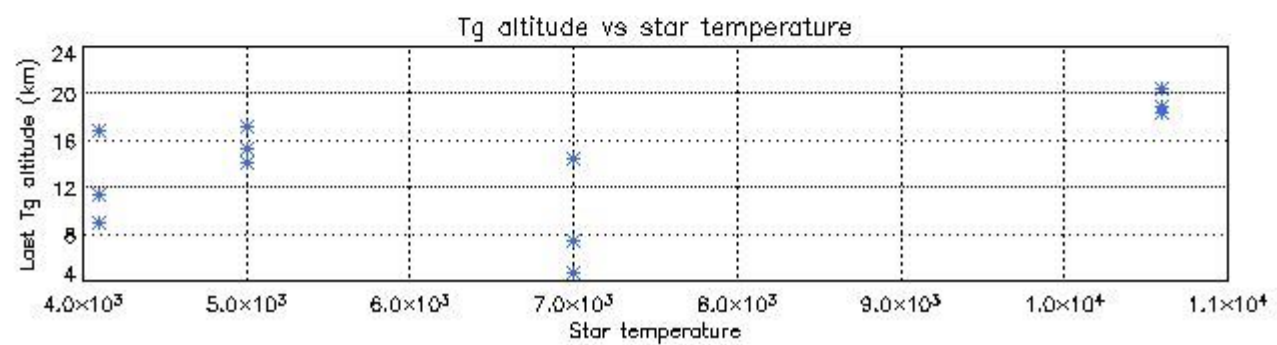
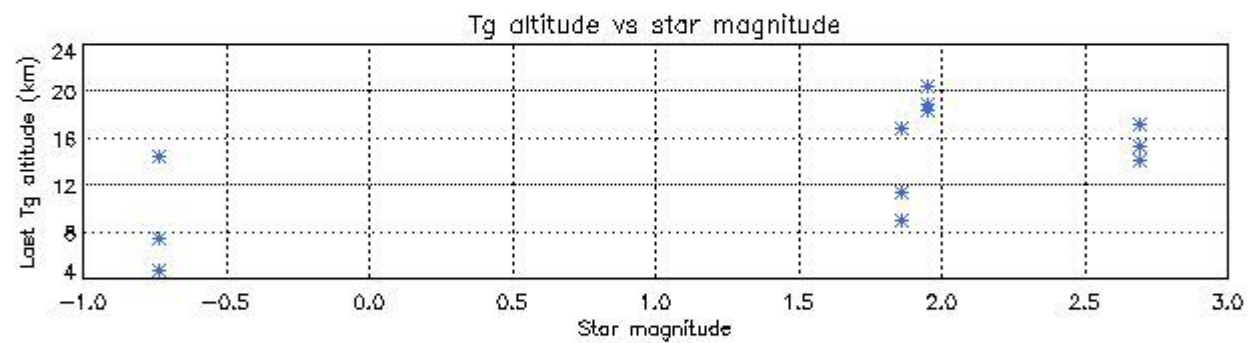
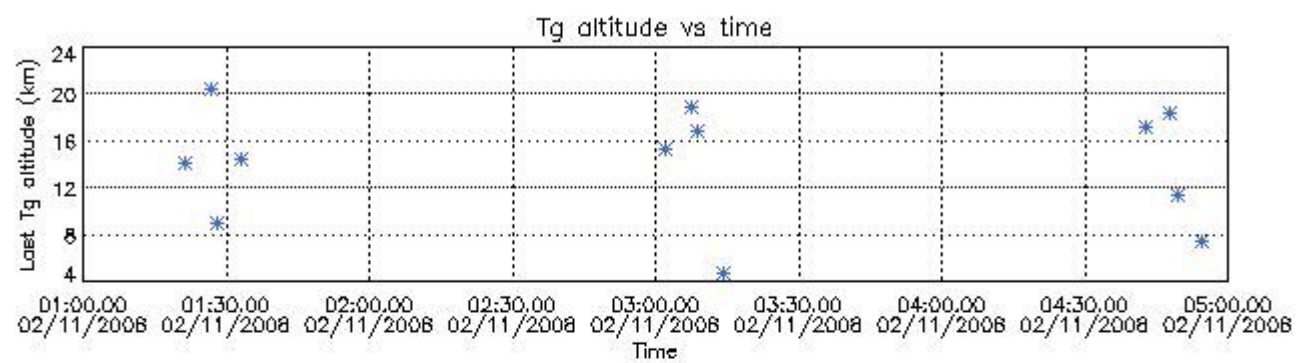
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.991	21.019	NaN
St. deviation:	4.9160	4.1833	NaN
Maximum:	20.452	27.319	NaN
Minimum:	4.7475	4.0235	NaN
Number of data:	12.000	34.000	NaN

### 6.2 Plot for DARK limb products

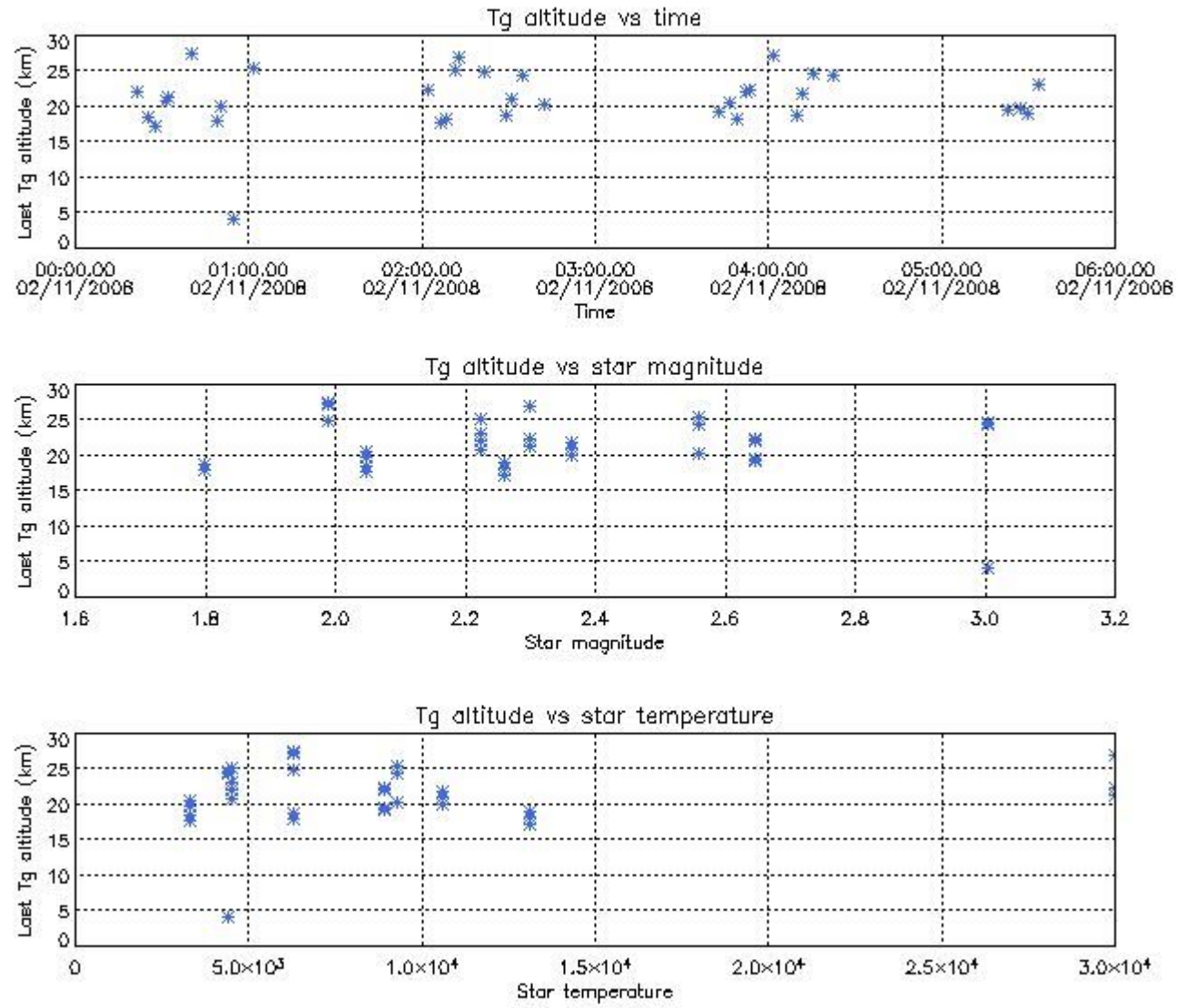
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

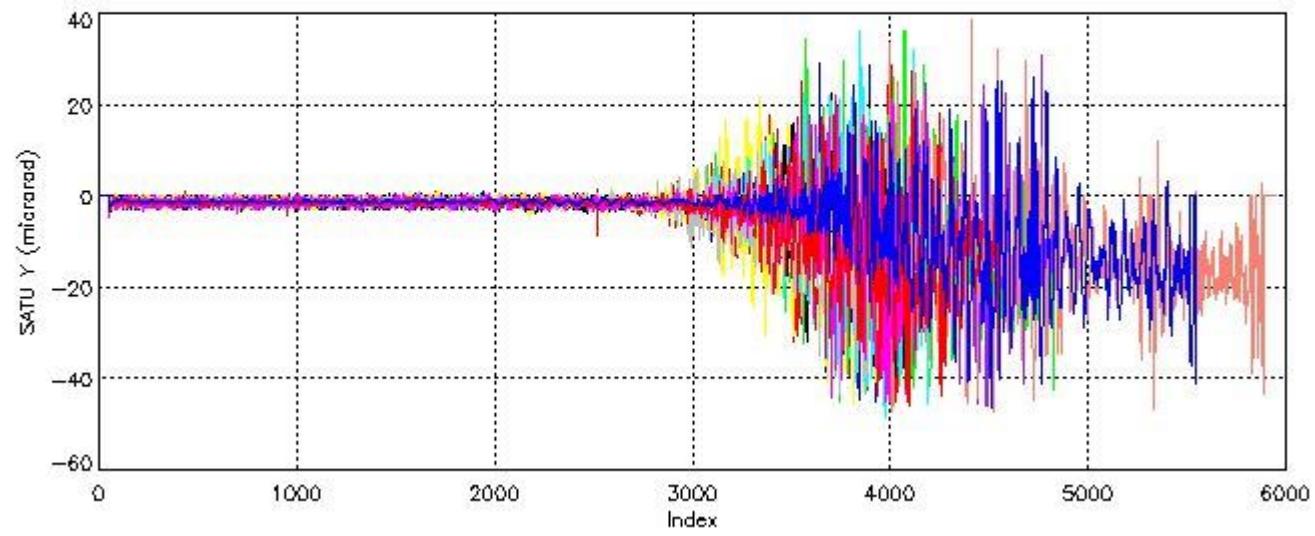
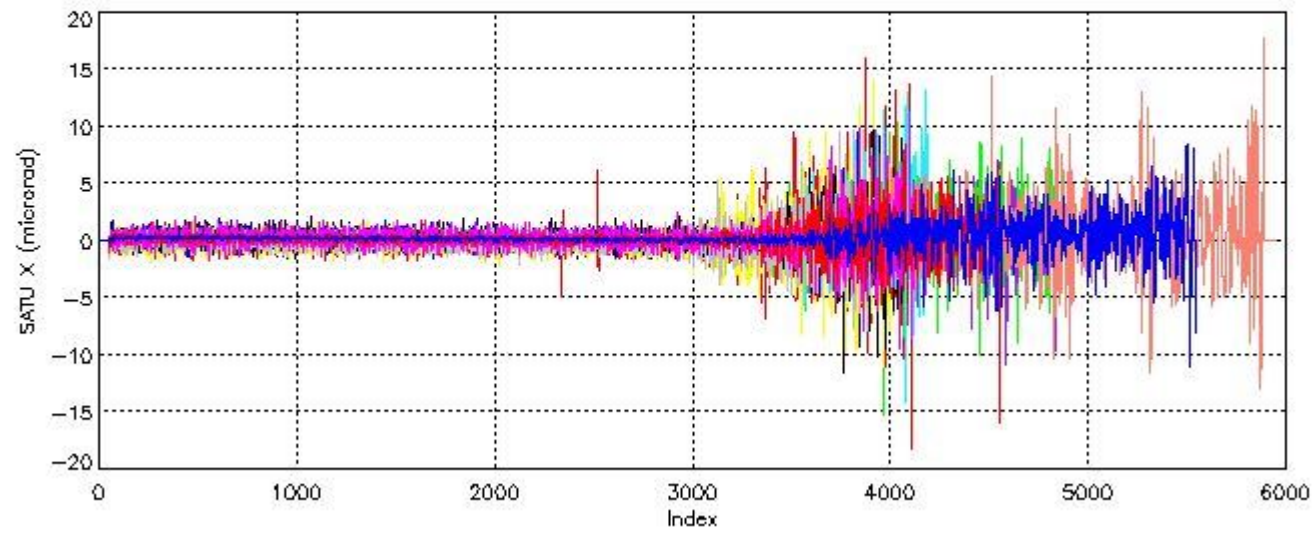


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.13932	-1.3361	0.12129	-1.3642
St. deviation:	0.34302	0.54769	0.62483	0.81278
Maximum:	2.1000	1.0000	3.8000	3.6000
Minimum:	-1.9000	-4.6000	-3.2000	-6.5000

Number of data:	11350.	11350.	28600.	28600.
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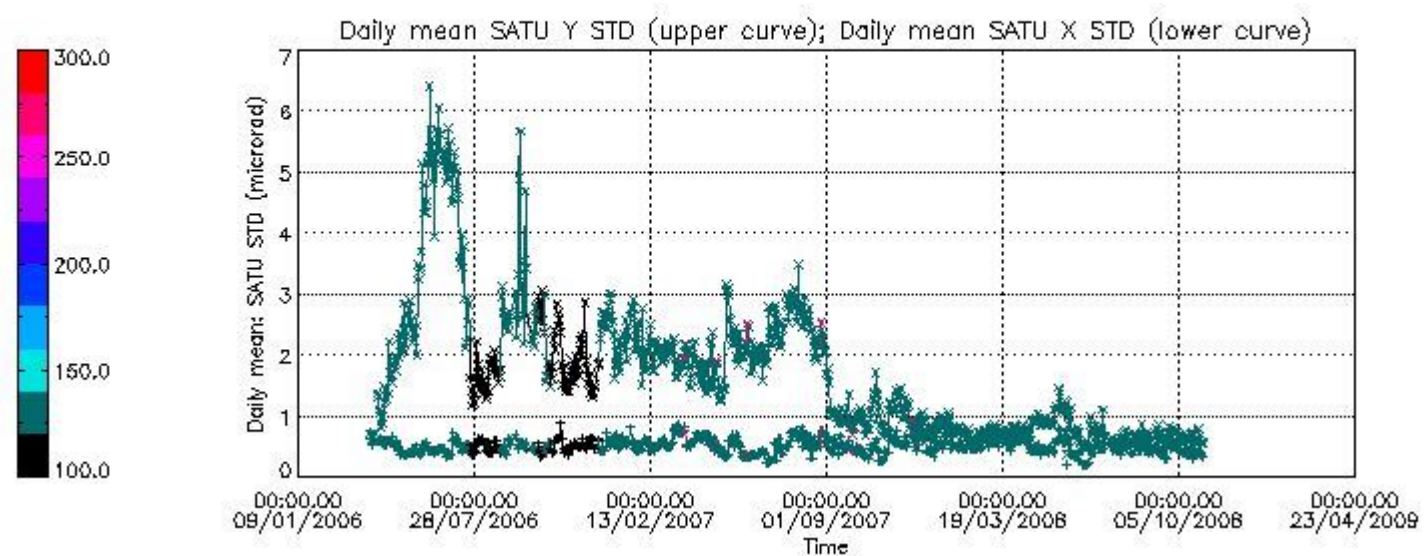
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

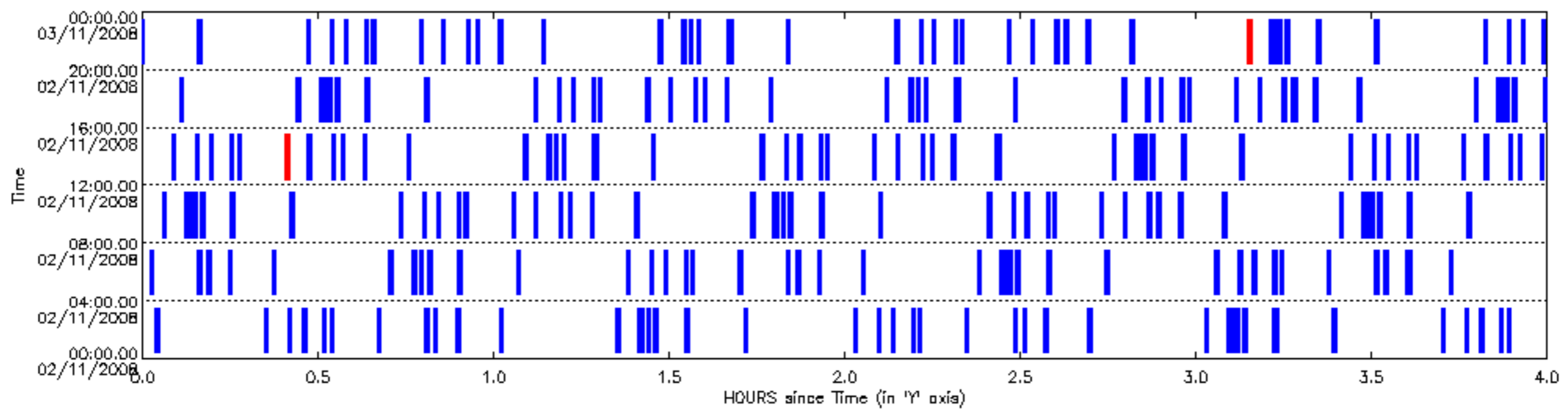


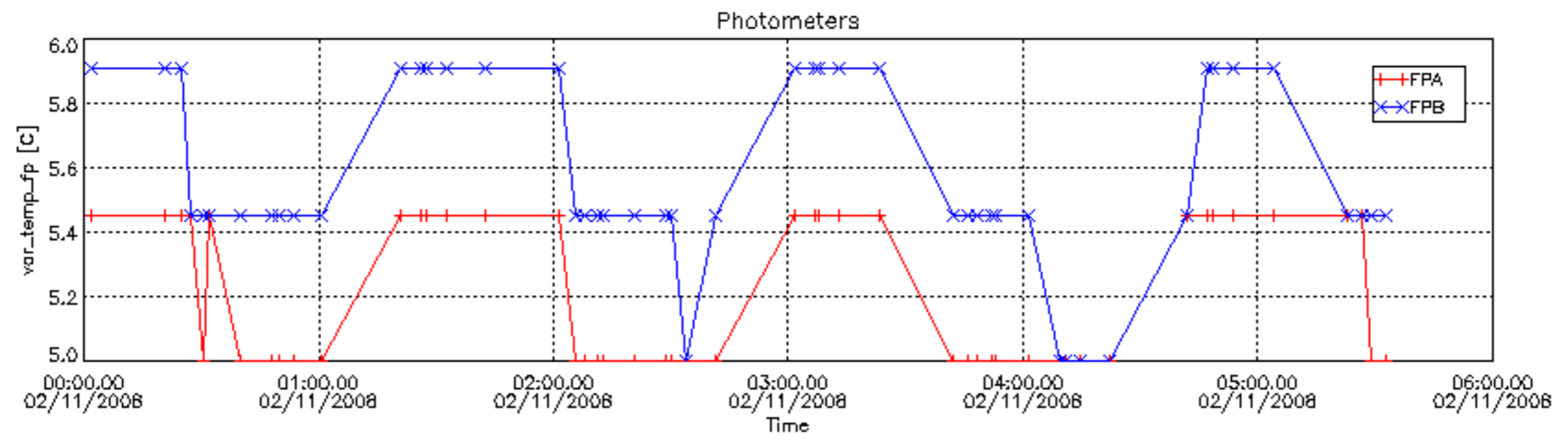
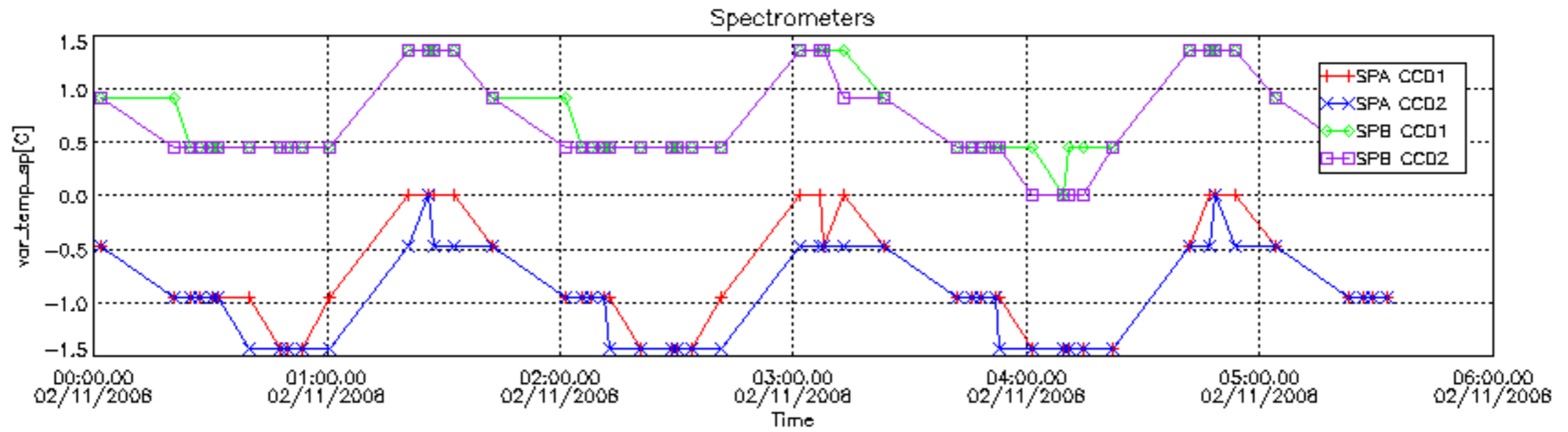
### 8. Auxiliary Data Files used for the production reported in section 2.4

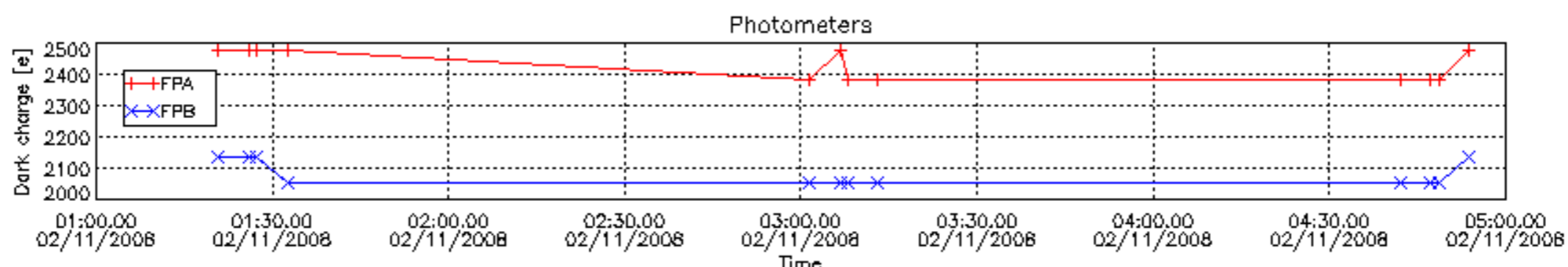
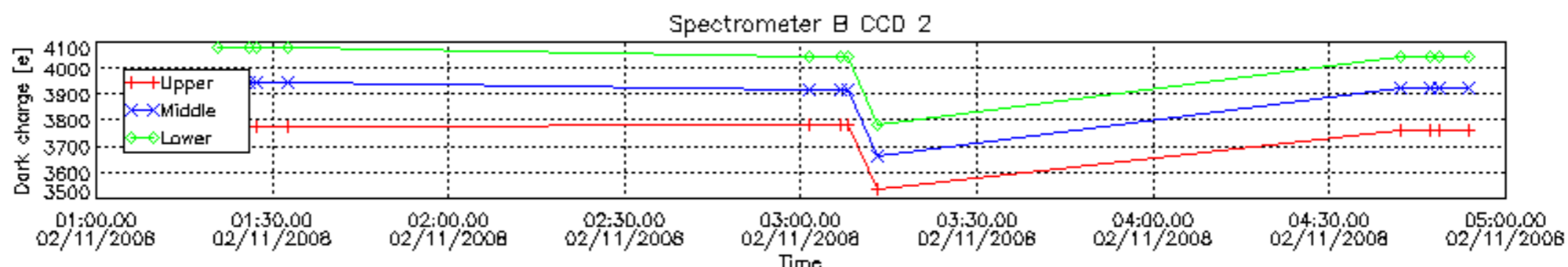
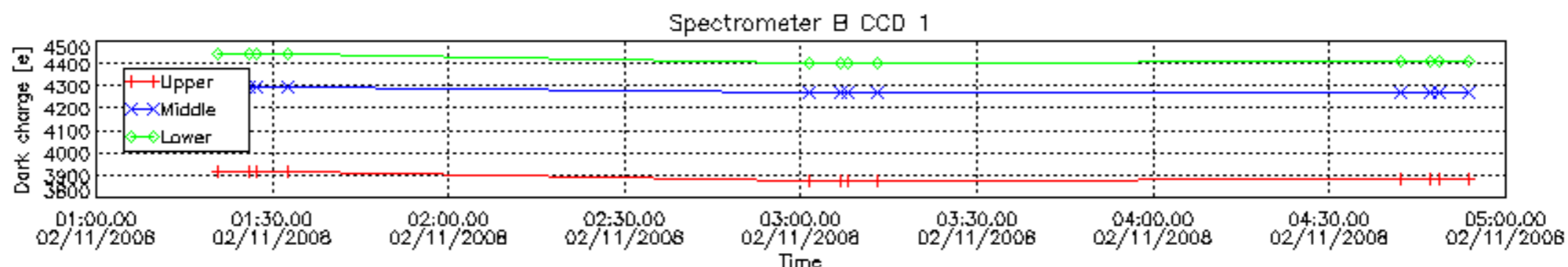
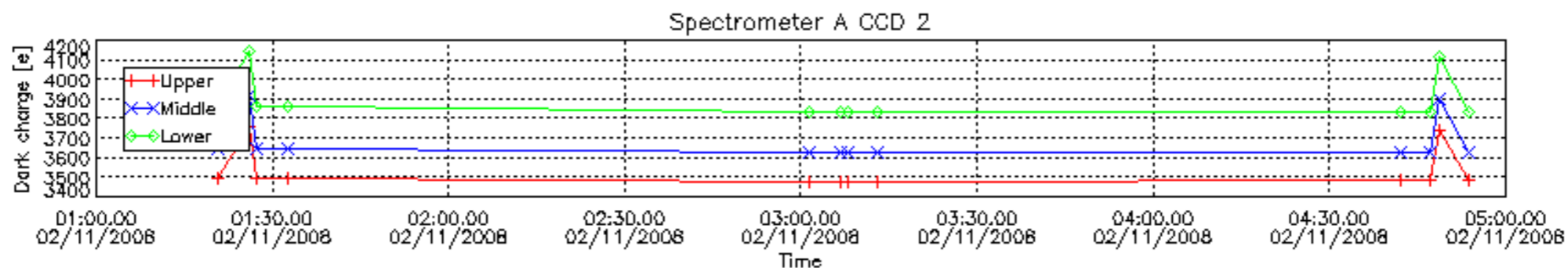
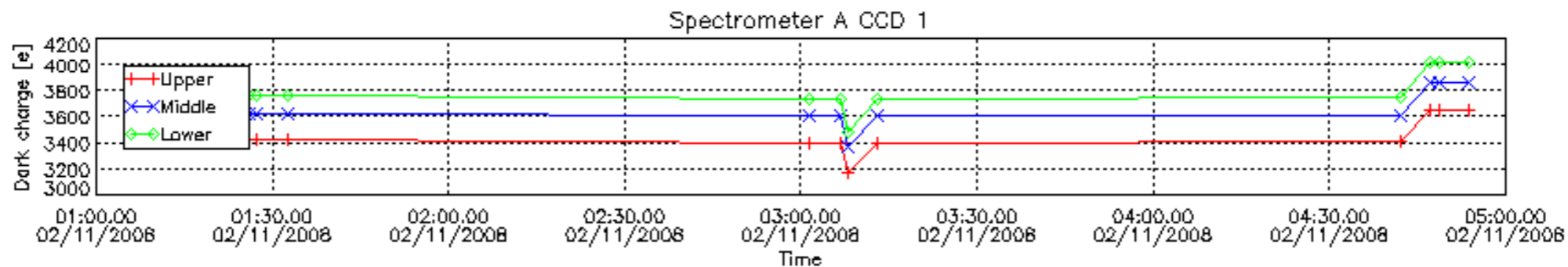
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-NOV-2008 00:02:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081016_095516_20081014_000000_20100101_000000	1	02-NOV-2008 00:02:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-NOV-2008 00:02:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-NOV-2008 00:02:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-NOV-2008 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20081101_072110_20081101_210000_20081102_090000	1	02-NOV-2008 00:02:04
ECMWF_FILE	AUX_ECF_AXNECM20081101_192108_20081102_030000_20081102_150000	38	02-NOV-2008 04:09:19
OPTIONAL_ECMWF_FILE	MISSING	1	02-NOV-2008 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081101_214338_000057382073_00272_34895_6680.N1	1	02-NOV-2008 00:02:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081101_232435_000060572073_00273_34896_6681.N1	12	02-NOV-2008 01:20:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081102_010532_000044632073_00274_34897_6682.N1	23	02-NOV-2008 02:28:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081102_022514_000054192073_00275_34898_6683.N1	38	02-NOV-2008 04:09:19





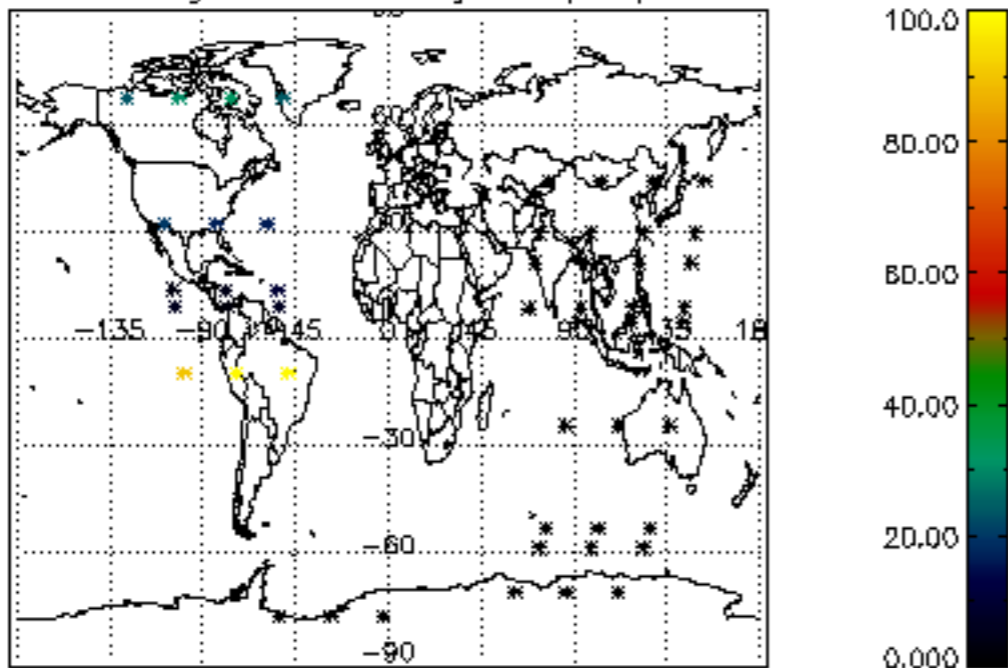




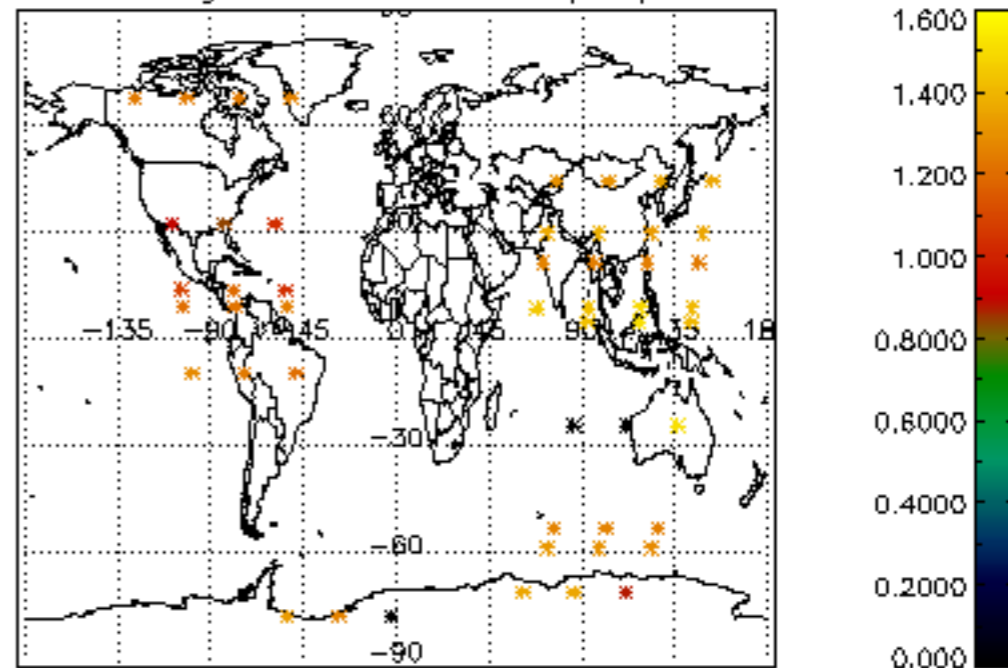




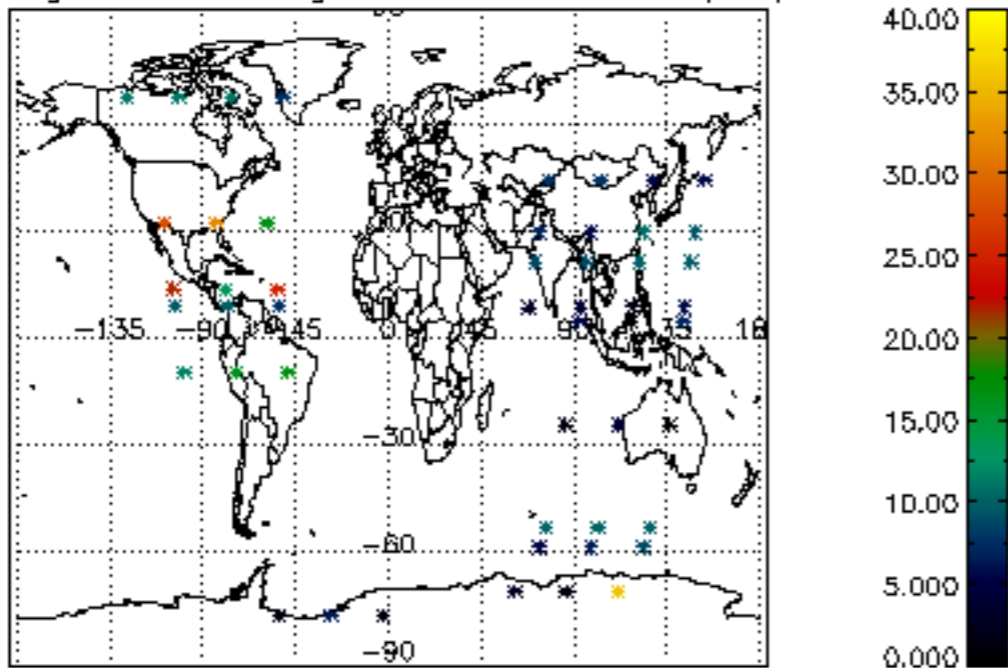
Percentage of cosmic ray hits per profile



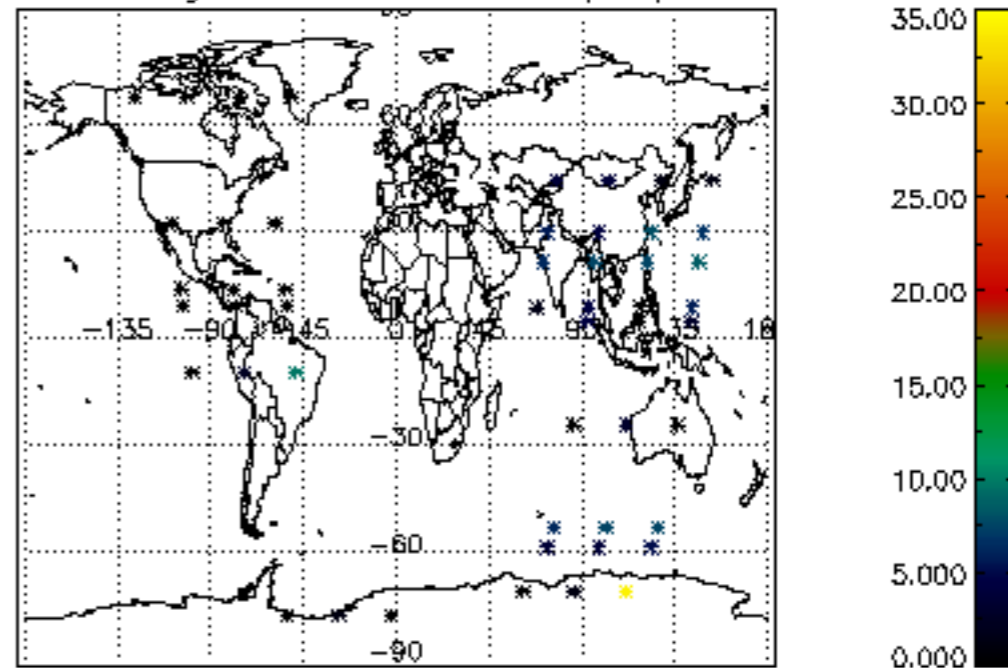
Percentage of datation errors per profile



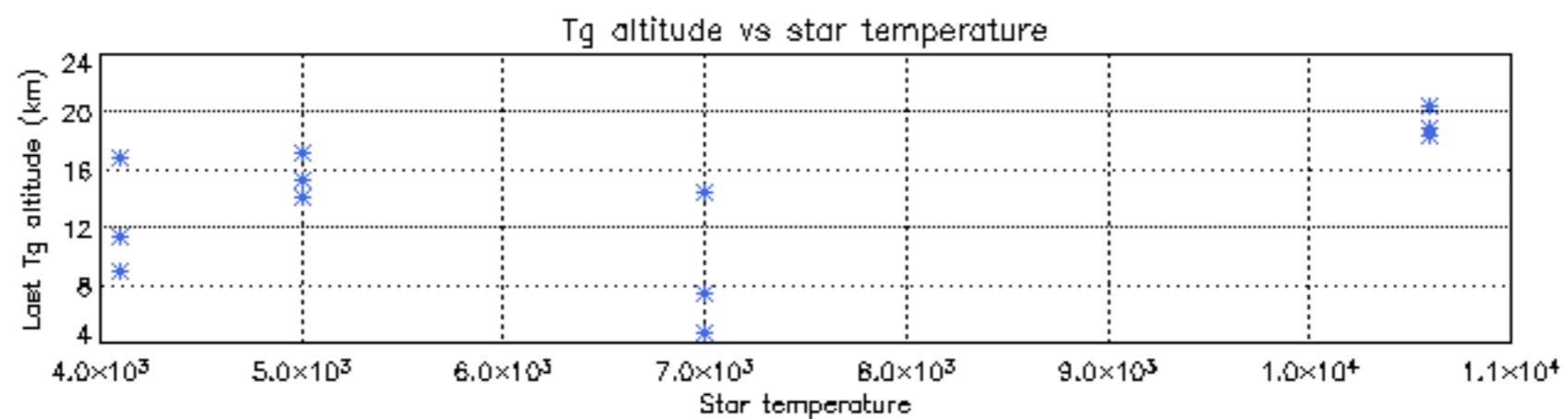
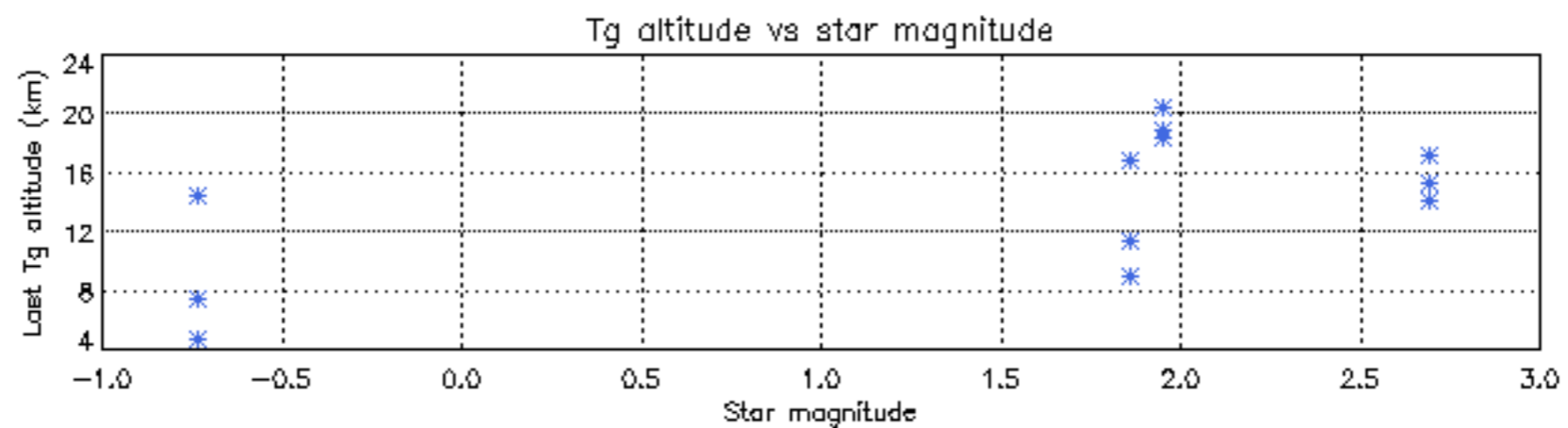
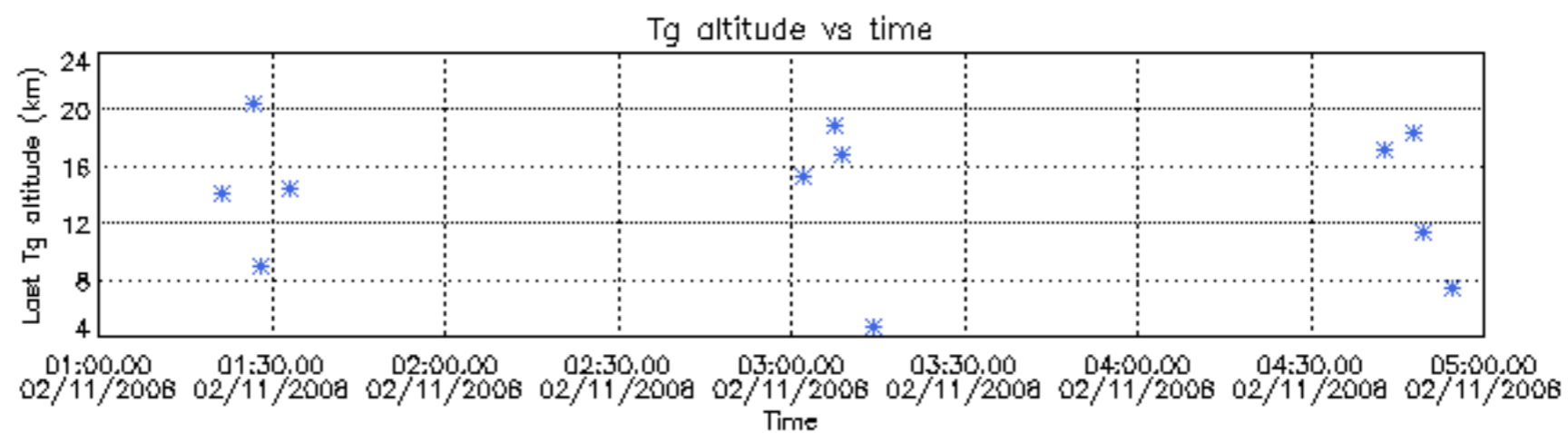
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

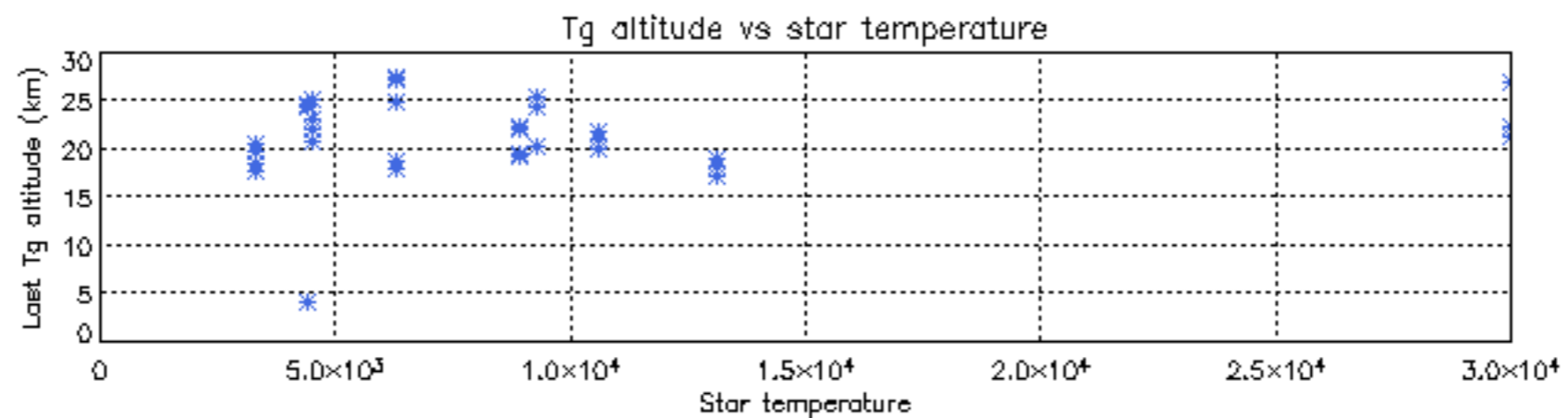
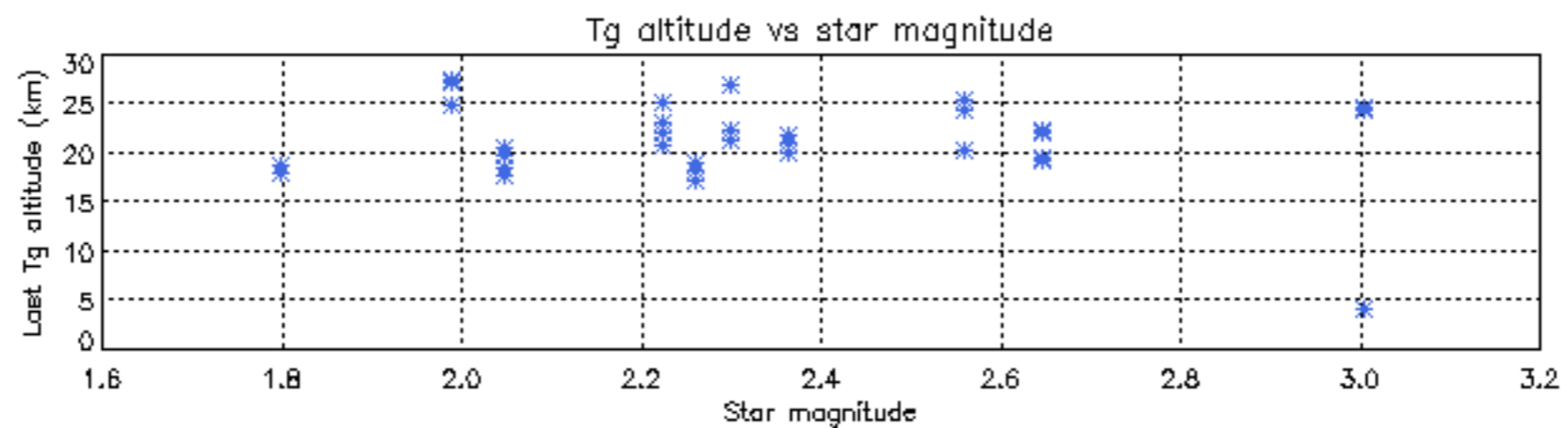
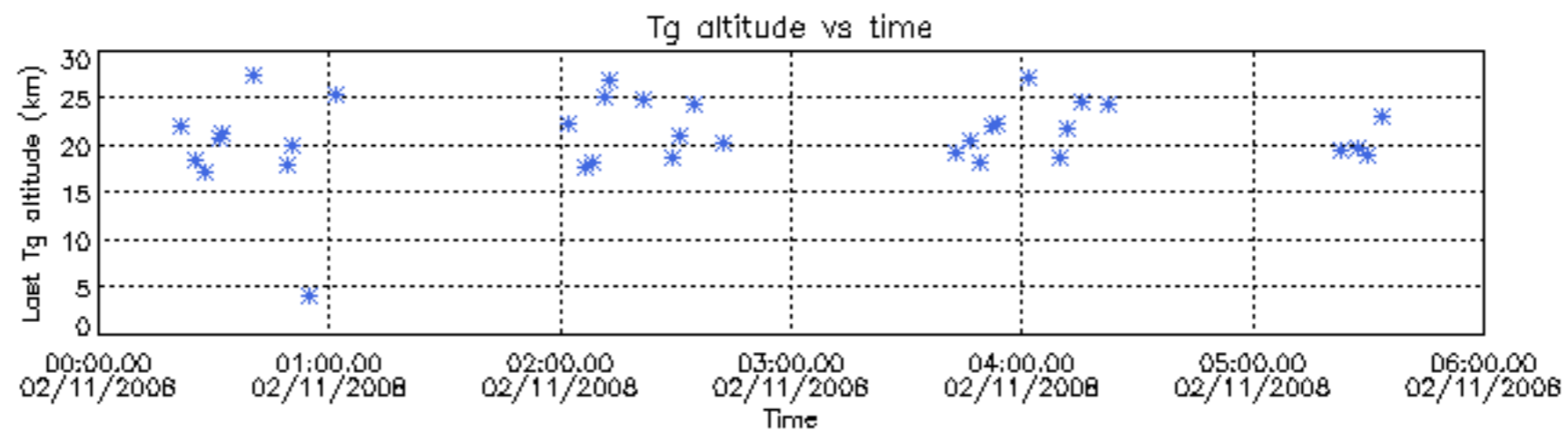


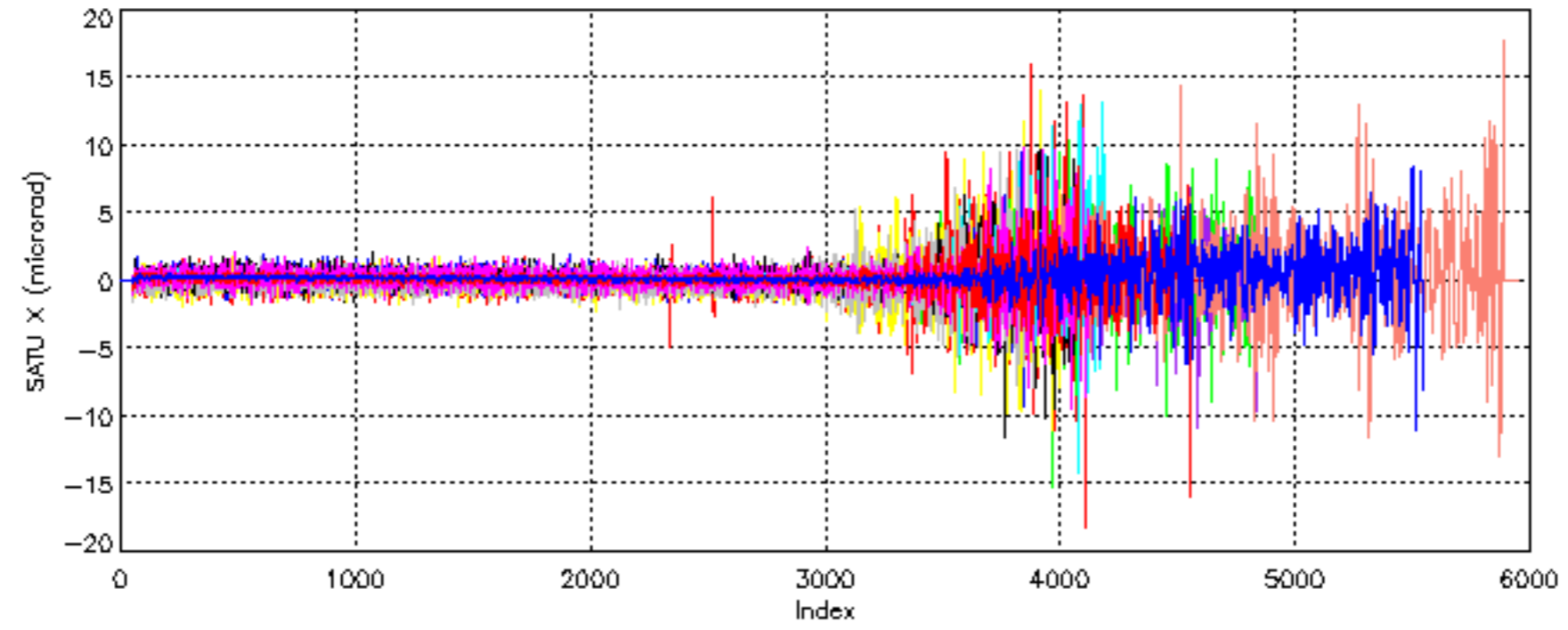
Tangent altitude at which the star is lost

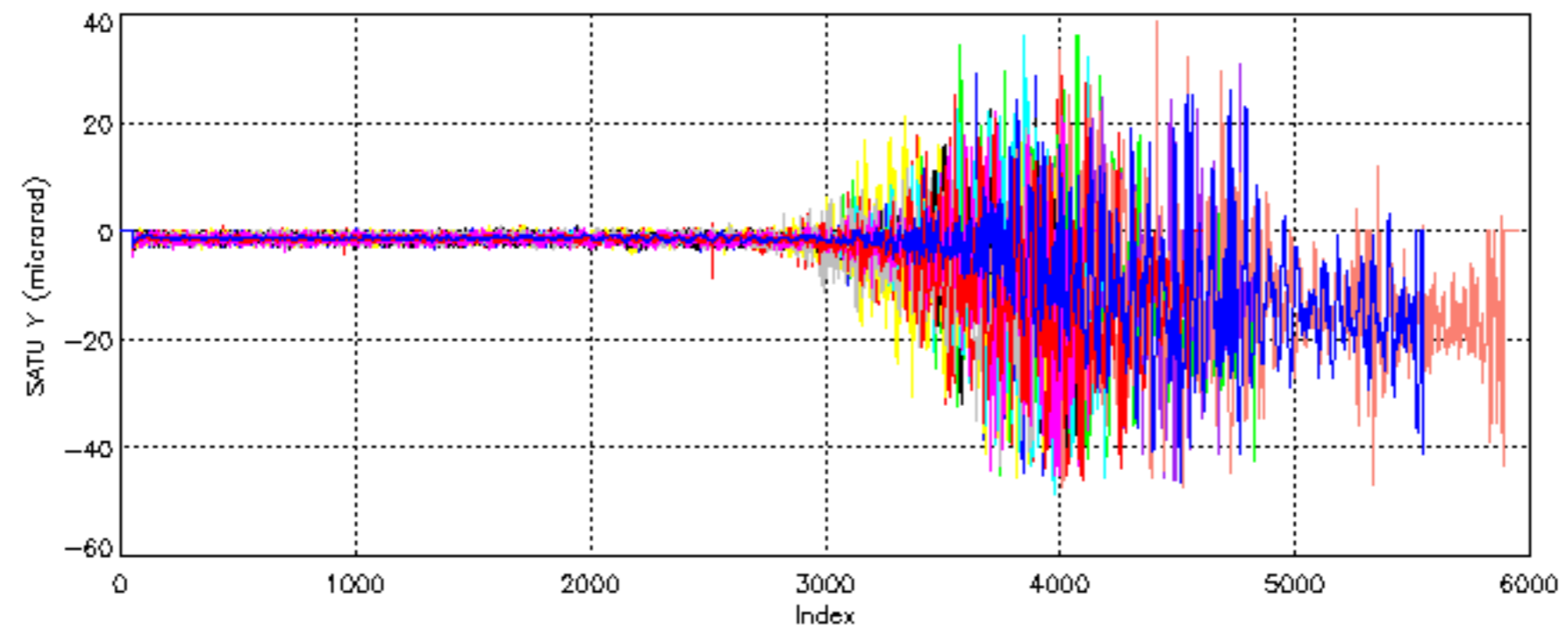


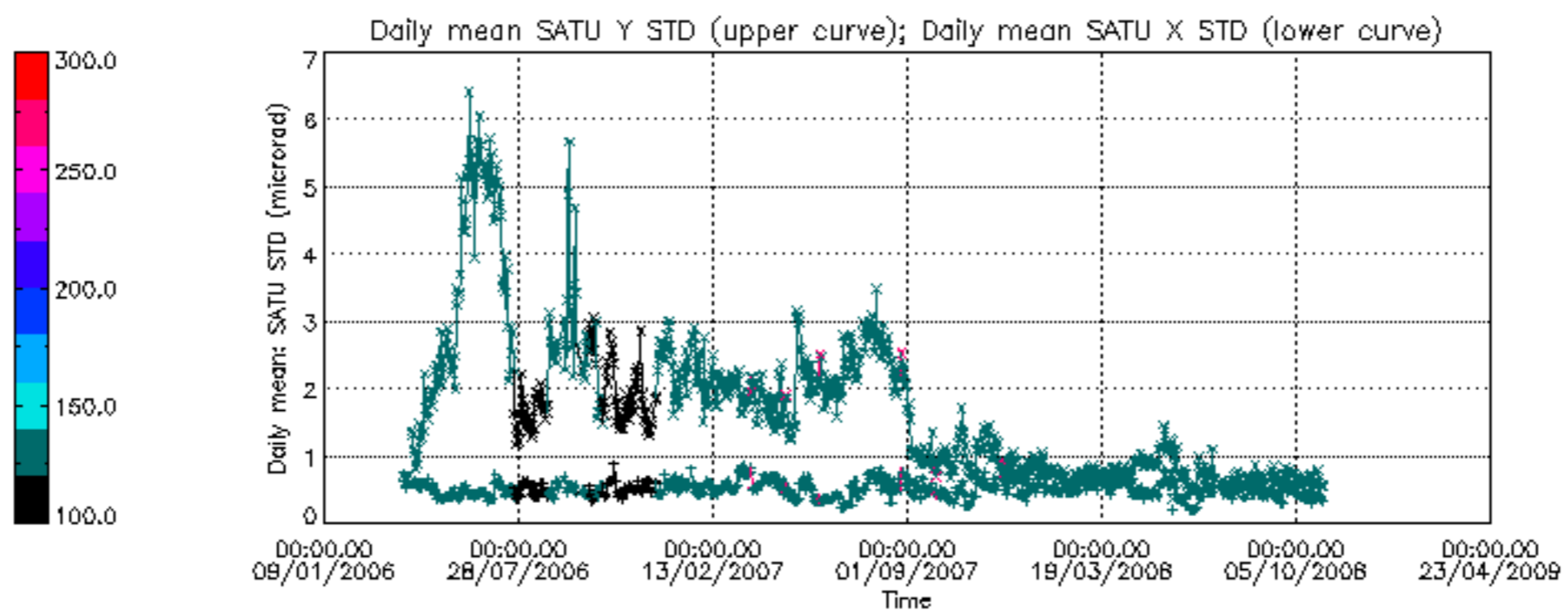


Tangent altitude at which the star is lost











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 2; 847.8; 01-NOV-2008 05:30:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 3; 1024.0; 01-NOV-2008 05:33:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 4; 1133.1; 01-NOV-2008 05:35:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 5; 1508.8; 01-NOV-2008 05:41:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 6; 1878.7; 01-NOV-2008 05:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 7; 2264.3; 01-NOV-2008 05:54:06; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 8; 2577.0; 01-NOV-2008 05:59:18; Bright; 58.5; 0; ; 0.00; 0;occ; 117; 0;34886  
 9; 3111.1; 01-NOV-2008 06:08:13; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 10; 3386.3; 01-NOV-2008 06:12:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886  
 11; 3467.1; 01-NOV-2008 06:14:09; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20081101\_204052\_000035882073\_00272\_34895\_6754.N1

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 2; 2271.2; 01-NOV-2008 20:59:36; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;34895  
 3; 2514.1; 01-NOV-2008 21:03:39; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;34895  
 4; 2656.8; 01-NOV-2008 21:06:02; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34895  
 5; 2868.1; 01-NOV-2008 21:09:33; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;34895  
 6; 2938.5; 01-NOV-2008 21:10:43; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;34895  
 7; 3423.5; 01-NOV-2008 21:18:48; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;34895  
 8; 3910.7; 01-NOV-2008 21:26:56; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;34895  
 9; 4007.6; 01-NOV-2008 21:28:33; Bright; 49.5; 82; 48Bet UMa ; 2.37; 10600;occ; 99; 0;34895  
 10; 4229.7; 01-NOV-2008 21:32:15; Bright; 57.0; 174; 52Psi UMa ; 3.00; 4400;occ; 114; 0;34895  
 11; 4677.4; 01-NOV-2008 21:39:42; Bright; 57.5; 96; 68Del Leo ; 2.56; 9300;occ; 115; 0;34895

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 3; 147.1; 01-NOV-2008 22:04:48; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;34896  
 4; 226.6; 01-NOV-2008 22:06:07; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;34896  
 5; 537.3; 01-NOV-2008 22:11:18; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;34896  
 6; 1146.9; 01-NOV-2008 22:21:28; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;34896  
 7; 2271.0; 01-NOV-2008 22:40:12; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;34896  
 8; 2514.1; 01-NOV-2008 22:44:15; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;34896  
 9; 2656.5; 01-NOV-2008 22:46:37; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34896  
 10; 2868.1; 01-NOV-2008 22:50:09; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;34896  
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 13; 3910.6; 01-NOV-2008 23:07:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;34896  
 14; 4007.4; 01-NOV-2008 23:09:08; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0;34896  
 15; 4229.7; 01-NOV-2008 23:12:51; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;34896  
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 4; 227.1; 01-NOV-2008 23:46:44; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;34897  
 5; 538.1; 01-NOV-2008 23:51:55; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;34897  
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 7; 2270.8; 02-NOV-2008 00:20:47; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;34897  
 8; 2514.0; 02-NOV-2008 00:24:51; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;34897  
 9; 2656.2; 02-NOV-2008 00:27:13; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;34897  
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 12; 3423.5; 02-NOV-2008 00:40:00; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;34897  
 13; 3910.5; 02-NOV-2008 00:48:07; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;34897  
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 6; -1167.0; 01-NOV-2008 06:37:31; Bright; 59.0; 0; ; 0.00; 0;occ; 118; 0;34886  
 7; 457.3; 01-NOV-2008 07:04:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887  
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 9; 1024.5; 01-NOV-2008 07:14:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887

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3; 2577.1; 01-NOV-2008 07:39:55; Bright; 58.5; 0; ; 0.00; 0;occ; 117; 0;34887
4; 3111.8; 01-NOV-2008 07:48:49; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
5; 3386.3; 01-NOV-2008 07:53:24; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
6; 3466.9; 01-NOV-2008 07:54:44; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
7; 3803.5; 01-NOV-2008 08:00:21; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
8; 4019.3; 01-NOV-2008 08:03:57; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
9; 4182.2; 01-NOV-2008 08:06:40; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
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13; 6094.9; 01-NOV-2008 08:38:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34887
14; 6509.0; 01-NOV-2008 08:45:27; Dark ; 121.0; 2; Alp Car ; -0.74; 7000;occ; 242; 0;34887
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2; 2482.4; 01-NOV-2008 09:18:56; Bright; 92.0; 173; 4Bet Tri ; 3.00; 8900;occ; 184; 0;34888
3; 2869.5; 01-NOV-2008 09:25:23; Bright; 84.5; 74; 11Bet Cas ; 2.27; 6600;occ; 169; 0;34888
4; 3372.1; 01-NOV-2008 09:33:46; Bright; 87.5; 49; 1Alp UMi ; 1.99; 6300;occ; 175; 0;34888
5; 3857.1; 01-NOV-2008 09:41:50; Bright; 92.0; 36; 50Alp UMa ; 1.80; 6300;occ; 184; 0;34888
6; 4009.4; 01-NOV-2008 09:44:23; Bright; 93.0; 87; 64Gam UMa ; 2.43; 11000;occ; 186; 0;34888
7; 4174.2; 01-NOV-2008 09:47:08; Bright; 93.0; 174; 52Psi UMa ; 3.00; 4400;occ; 186; 0;34888
8; 4619.8; 01-NOV-2008 09:54:33; Bright; 94.0; 96; 68Del Leo ; 2.56; 9300;occ; 188; 0;34888
9; 5817.6; 01-NOV-2008 10:14:31; Dark ; 89.5; 113; Mu Vel ; 2.69; 5000;occ; 179; 0;34888
10; 6095.6; 01-NOV-2008 10:19:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34888
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5; 3856.9; 01-NOV-2008 11:22:26; Bright; 94.0; 36; 50Alp UMa ; 1.80; 6300;occ; 188; 0;34889
6; 4009.3; 01-NOV-2008 11:24:59; Bright; 88.0; 87; 64Gam UMa ; 2.43; 11000;occ; 176; 0;34889
7; 4174.1; 01-NOV-2008 11:27:43; Bright; 96.0; 174; 52Psi UMa ; 3.00; 4400;occ; 192; 0;34889
8; 4620.0; 01-NOV-2008 11:35:09; Bright; 94.5; 96; 68Del Leo ; 2.56; 9300;occ; 189; 0;34889
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4; 2868.0; 01-NOV-2008 12:46:33; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;34890
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7; 3911.2; 01-NOV-2008 13:03:56; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;34890
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4; 2641.3; 06-NOV-2008 20:08:16; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34966
5; 2872.3; 06-NOV-2008 20:12:07; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;34966
6; 3423.0; 06-NOV-2008 20:21:18; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;34966
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8; 3902.4; 06-NOV-2008 20:29:18; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;34966
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4; 590.9; 06-NOV-2008 21:14:42; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;34967
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4; 591.6; 06-NOV-2008 22:55:18; Dark ; 61.5; 2; Alp Car ; -0.74; 7000;occ; 123; 0;34968
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6; 2263.9; 06-NOV-2008 23:23:11; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;34968
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5; 3423.1; 06-NOV-2008 08:37:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34959
6; 3666.8; 06-NOV-2008 08:41:10; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;34959
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5; 3423.1; 06-NOV-2008 10:17:43; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;34960
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9; 4229.4; 06-NOV-2008 10:31:09; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;34960
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12; 1984.4; 09-NOV-2008 04:57:41; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;35000
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 5; 2634.7; 09-NOV-2008 20:13:54; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35009
 6; 2876.8; 09-NOV-2008 20:17:57; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;35009
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 8; 3896.2; 09-NOV-2008 20:34:56; Bright; 40.0; 36; 50Alp UMA ; 1.80; 6300;occ; 80; 0;35009
 9; 3994.1; 09-NOV-2008 20:36:34; Bright; 40.0; 82; 48Bet UMA ; 2.37; 10600;occ; 80; 0;35009
10; 4228.0; 09-NOV-2008 20:40:28; Bright; 42.0; 174; 52Psi UMA ; 3.00; 4400;occ; 84; 0;35009
11; 4319.7; 09-NOV-2008 20:41:59; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;35009
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 6; 1181.1; 09-NOV-2008 23:10:53; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;35011
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9; 4228.0; 09-NOV-2008 15:38:40; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;35006
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7; 3422.9; 09-NOV-2008 17:05:51; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35007
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 5; 623.3; 10-NOV-2008 00:42:11; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35012
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 9; 2510.4; 10-NOV-2008 01:13:38; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;35012
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13; 3674.3; 10-NOV-2008 01:33:02; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35012
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16; 4227.5; 10-NOV-2008 01:42:15; Bright; 42.5; 174; 52Psi UMA ; 3.00; 4400;occ; 85; 0;35012
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 6; 1181.7; 10-NOV-2008 02:32:05; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;35013
 7; 1982.5; 10-NOV-2008 02:45:26; Dark ; 49.5; 94; 92Alp Cet ; 2.53; 3100;occ; 99; 0;35013
 8; 2262.2; 10-NOV-2008 02:50:05; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;35013
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18; 4227.1; 10-NOV-2008 23:30:02; Bright; 42.5; 174; 52Psi UMA ; 3.00; 4400;occ; 85; 0;35025
19; 4321.6; 10-NOV-2008 23:31:36; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35025
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 13; 2930.0; 11-NOV-2008 00:49:00; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;35026  
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 18; 4226.9; 11-NOV-2008 01:10:37; Bright; 41.5; 174; 52Psi UMa ; 3.00; 4400;occ; 83; 0;35026  
 19; 4321.8; 11-NOV-2008 01:12:12; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35026  
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 9; 159.5; 10-NOV-2008 07:16:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35016  
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 11; 626.3; 10-NOV-2008 07:24:37; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;35016  
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 13; 5385.9; 10-NOV-2008 08:43:57; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;35016  
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 5; 2877.9; 10-NOV-2008 09:42:45; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;35017  
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 9; 3993.0; 10-NOV-2008 10:01:20; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;35017  
 10; 4227.4; 10-NOV-2008 10:05:15; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;35017  
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 12; 4785.2; 10-NOV-2008 10:14:32; Bright; 40.0; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;35017  
 13; 5386.2; 10-NOV-2008 10:24:33; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;35017  
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17; 6663.5; 10-NOV-2008 10:45:51; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;35017
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 5; 2878.1; 10-NOV-2008 11:23:21; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;35018
 6; 3422.7; 10-NOV-2008 11:32:26; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35018
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 9; 3992.8; 10-NOV-2008 11:41:56; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;35018
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13; 5386.6; 10-NOV-2008 12:05:10; Dark ; 38.5; 171; 2Eps Crv ; 3.00; 4250;occ; 77; 0;35018
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17; 6664.4; 10-NOV-2008 12:26:27; Dark ; 59.5; 2; Alp Car ;-0.74; 7000;occ; 119; 0;35018
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 4; 2633.7; 10-NOV-2008 12:59:52; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35019
 5; 2878.1; 10-NOV-2008 13:03:57; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;35019
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 9; 3992.6; 10-NOV-2008 13:22:31; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;35019
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12; 4785.9; 10-NOV-2008 13:35:45; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;35019
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 14; 5018.9; 14-NOV-2008 11:33:10; Bright; 33.5; 121; 29Gam Vir ; 2.74; 7200;occ; 67; 0;35075  
 15; 5319.6; 14-NOV-2008 11:38:10; Dark ; 39.5; 100; 4Gam Crv ; 2.58; 13100;occ; 79; 0;35075  
 16; 5410.4; 14-NOV-2008 11:39:41; Dark ; 41.5; 171; 2Eps Crv ; 3.00; 4250;occ; 83; 0;35075  
 17; 5963.2; 14-NOV-2008 11:48:54; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;35075  
 18; 6143.7; 14-NOV-2008 11:51:54; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35075  
 19; 6245.0; 14-NOV-2008 11:53:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35075  
 20; 6422.4; 14-NOV-2008 11:56:33; Dark ; 35.0; 34; Gam2Vel ; 1.79; 23000;occ; 70; 0;35075  
 21; 6703.7; 14-NOV-2008 12:01:14; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;35075  
 22; 7233.5; 14-NOV-2008 12:10:04; Dark ; 37.5; 157; The1Eri ; 2.91; 9300;occ; 75; 0;35075

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1; 1976.3; 14-NOV-2008 12:23:03; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;35076  
 2; 2263.8; 14-NOV-2008 12:27:50; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;35076  
 3; 2504.9; 14-NOV-2008 12:31:51; Bright; 34.5; 173; 4Bet Tri ; 3.00; 8900;occ; 69; 0;35076  
 4; 2628.9; 14-NOV-2008 12:33:55; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;35076  
 5; 2820.8; 14-NOV-2008 12:37:07; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;35076  
 6; 2930.8; 14-NOV-2008 12:38:57; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;35076  
 7; 3422.5; 14-NOV-2008 12:47:09; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35076  
 8; 3682.6; 14-NOV-2008 12:51:29; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35076  
 9; 3884.3; 14-NOV-2008 12:54:51; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;35076  
 10; 3982.7; 14-NOV-2008 12:56:29; Bright; 40.0; 82; 48Bet UMa ; 2.37; 10600;occ; 80; 0;35076  
 11; 4118.8; 14-NOV-2008 12:58:45; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;35076  
 12; 4327.9; 14-NOV-2008 13:02:14; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;35076  
 13; 4805.6; 14-NOV-2008 13:10:12; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;35076  
 14; 5019.3; 14-NOV-2008 13:13:46; Bright; 35.0; 121; 29Gam Vir ; 2.74; 7200;occ; 70; 0;35076  
 15; 5320.1; 14-NOV-2008 13:18:47; Dark ; 41.0; 100; 4Gam Crv ; 2.58; 13100;occ; 82; 0;35076  
 16; 5411.0; 14-NOV-2008 13:20:17; Dark ; 41.5; 171; 2Eps Crv ; 3.00; 4250;occ; 83; 0;35076  
 17; 5963.8; 14-NOV-2008 13:29:30; Dark ; 39.5; 113; Mu Vel ; 2.69; 5000;occ; 79; 0;35076  
 18; 6144.2; 14-NOV-2008 13:32:31; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;35076  
 19; 6245.9; 14-NOV-2008 13:34:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35076  
 20; 6423.4; 14-NOV-2008 13:37:10; Dark ; 35.0; 34; Gam2Vel ; 1.79; 23000;occ; 70; 0;35076  
 21; 6704.4; 14-NOV-2008 13:41:51; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;35076  
 22; 7233.8; 14-NOV-2008 13:50:40; Dark ; 37.5; 157; The1Eri ; 2.91; 9300;occ; 75; 0;35076

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1; 1976.3; 14-NOV-2008 14:03:39; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;35077  
 2; 2263.7; 14-NOV-2008 14:08:26; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;35077  
 3; 2504.8; 14-NOV-2008 14:12:27; Bright; 34.0; 173; 4Bet Tri ; 3.00; 8900;occ; 68; 0;35077  
 4; 2628.9; 14-NOV-2008 14:14:31; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35077  
 5; 2820.6; 14-NOV-2008 14:17:43; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;35077  
 6; 2930.9; 14-NOV-2008 14:19:33; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;35077  
 7; 3422.7; 14-NOV-2008 14:27:45; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;35077  
 8; 3682.8; 14-NOV-2008 14:32:05; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35077  
 9; 3884.3; 14-NOV-2008 14:35:27; Bright; 58.0; 36; 50Alp UMa ; 1.80; 6300;occ; 116; 0;35077  
 10; 3982.6; 14-NOV-2008 14:37:05; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;35077  
 11; 4119.0; 14-NOV-2008 14:39:21; Bright; 34.0; 39; 85Eta UMa ; 1.85; 24000;occ; 68; 0;35077  
 12; 4328.0; 14-NOV-2008 14:42:50; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;35077  
 13; 4806.0; 14-NOV-2008 14:50:48; Bright; 42.0; 62; 94Bet Leo ; 2.14; 9700;occ; 84; 0;35077  
 14; 5019.7; 14-NOV-2008 14:54:22; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;35077  
 15; 5320.6; 14-NOV-2008 14:59:23; Dark ; 38.5; 100; 4Gam Crv ; 2.58; 13100;occ; 77; 0;35077  
 16; 5411.5; 14-NOV-2008 15:00:54; Dark ; 40.5; 171; 2Eps Crv ; 3.00; 4250;occ; 81; 0;35077  
 17; 5964.5; 14-NOV-2008 15:10:07; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;35077  
 18; 6144.6; 14-NOV-2008 15:13:07; Dark ; 36.5; 124; The Car ; 2.76; 30000;occ; 73; 0;35077  
 19; 6246.8; 14-NOV-2008 15:14:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35077  
 20; 6424.4; 14-NOV-2008 15:17:47; Dark ; 34.0; 34; Gam2Vel ; 1.79; 23000;occ; 68; 0;35077  
 21; 6705.2; 14-NOV-2008 15:22:27; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;35077  
 22; 7234.1; 14-NOV-2008 15:31:16; Dark ; 36.5; 157; The1Eri ; 2.91; 9300;occ; 73; 0;35077

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1; 1976.3; 14-NOV-2008 15:44:15; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;35078  
 2; 2263.8; 14-NOV-2008 15:49:02; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;35078  
 3; 2504.7; 14-NOV-2008 15:53:03; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;35078  
 4; 2628.8; 14-NOV-2008 15:55:07; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;35078  
 5; 2820.1; 14-NOV-2008 15:58:18; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;35078  
 6; 2931.0; 14-NOV-2008 16:00:09; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;35078  
 7; 3422.6; 14-NOV-2008 16:08:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35078  
 8; 3682.8; 14-NOV-2008 16:12:41; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;35078  
 9; 3884.1; 14-NOV-2008 16:16:02; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;35078  
 10; 3982.4; 14-NOV-2008 16:17:41; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;35078  
 11; 4119.2; 14-NOV-2008 16:19:57; Bright; 34.5; 39; 85Eta UMa ; 1.85; 24000;occ; 69; 0;35078  
 12; 4328.0; 14-NOV-2008 16:23:26; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;35078  
 13; 4806.3; 14-NOV-2008 16:31:25; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 81; 0;35078  
 14; 5019.9; 14-NOV-2008 16:34:58; Bright; 53.0; 121; 29Gam Vir ; 2.74; 7200;occ; 106; 0;35078  
 15; 5321.0; 14-NOV-2008 16:39:59; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;35078  
 16; 5411.9; 14-NOV-2008 16:41:30; Dark ; 40.5; 171; 2Eps Crv ; 3.00; 4250;occ; 81; 0;35078  
 17; 5965.1; 14-NOV-2008 16:50:43; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;35078

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1; 422.2; 14-NOV-2008 18:39:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35080  
 2; 600.3; 14-NOV-2008 18:42:31; Dark ; 101.5; 132; 15Rho Pup ; 2.80; 6900;occ; 203; 0;35080  
 3; 788.8; 14-NOV-2008 18:45:39; Dark ; 81.0; 88; 31Eta CMa ; 2.45; 20000;occ; 162; 0;35080  
 4; 927.0; 14-NOV-2008 18:47:57; Dark ; 80.5; 23; 21Eps CMa ; 1.50; 26000;occ; 161; 0;35080

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1; 951.0; 14-NOV-2008 18:48:21; Dark ; 81.0; 23; 21Eps CMa ; 1.50; 26000;occ; 162; 48;35080  
 2; 1073.1; 14-NOV-2008 18:50:23; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;35080  
 3; 1450.1; 14-NOV-2008 18:56:40; Dark ; 26.0; 47; 2Bet CMa ; 1.98; 28000;occ; 52; 0;35080  
 4; 1500.1; 14-NOV-2008 18:57:30; Dark ; 74.0; 101; 11Alp Lep ; 2.58; 7000;occ; 148; 0;35080  
 5; 1798.4; 14-NOV-2008 19:02:29; Dark ; 85.0; 7; 19Bet Ori ; 0.10; 14000;occ; 170; 0;35080  
 6; 1926.8; 14-NOV-2008 19:04:37; Dark ; 35.0; 125; 44Iot Ori ; 2.77; 30000;occ; 70; 0;35080  
 7; 2369.3; 14-NOV-2008 19:12:00; Bright; 64.0; 13; 87Alp Tau ; 0.87; 3800;occ; 128; 0;35080  
 8; 2562.3; 14-NOV-2008 19:15:13; Bright; 44.0; 150; 44Zet Per ; 2.89; 28000;occ; 88; 0;35080  
 9; 2788.3; 14-NOV-2008 19:18:59; Bright; 58.0; 114; 3Iot Aur ; 2.69; 4600;occ; 116; 0;35080  
 10; 3044.8; 14-NOV-2008 19:23:15; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;35080  
 11; 3229.8; 14-NOV-2008 19:26:20; Bright; 64.0; 42; 34Bet Aur ; 1.90; 10200;occ; 128; 0;35080  
 12; 4835.7; 14-NOV-2008 19:53:06; Bright; 88.0; 166; 17Eps Leo ; 2.98; 6000;occ; 176; 0;35080  
 13; 5122.3; 14-NOV-2008 19:57:53; Dark ; 83.0; 22; 32Alp Leo ; 1.36; 15200;occ; 166; 0;35080  
 14; 5905.1; 14-NOV-2008 20:10:55; Dark ; 111.0; 48; 30Alp Hya ; 1.98; 4100;occ; 222; 0;35080  
 15; 6460.1; 14-NOV-2008 20:20:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35080  
 16; 6638.4; 14-NOV-2008 20:23:09; Dark ; 98.5; 132; 15Rho Pup ; 2.80; 6900;occ; 197; 0;35080  
 17; 6826.2; 14-NOV-2008 20:26:16; Dark ; 79.0; 88; 31Eta CMa ; 2.45; 20000;occ; 158; 0;35080  
 18; 6964.1; 14-NOV-2008 20:28:34; Dark ; 82.0; 23; 21Eps CMa ; 1.50; 26000;occ; 164; 0;35080  
 19; 7109.8; 14-NOV-2008 20:31:00; Dark ; 22.0; 108; Alp Col ; 2.65; 15200;occ; 44; 0;35080

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1; -121.9; 15-NOV-2008 01:12:52; Dark ; 108.0; 48; 30Alp Hya ; 1.98; 4100;occ; 216; 0;35083  
 2; 430.2; 15-NOV-2008 01:22:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35084  
 3; 689.2; 15-NOV-2008 01:26:23; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0;35084  
 4; 794.8; 15-NOV-2008 01:28:09; Dark ; 80.0; 88; 31Eta CMa ; 2.45; 20000;occ; 160; 0;35084  
 5; 932.1; 15-NOV-2008 01:30:26; Dark ; 76.5; 23; 21Eps CMa ; 1.50; 26000;occ; 153; 0;35084  
 6; 1075.9; 15-NOV-2008 01:32:50; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;35084  
 7; 1451.5; 15-NOV-2008 01:39:05; Dark ; 34.0; 47; 2Bet CMa ; 1.98; 28000;occ; 68; 0;35084  
 8; 1796.7; 15-NOV-2008 01:44:51; Dark ; 86.0; 7; 19Bet Ori ; 0.10; 14000;occ; 172; 0;35084  
 9; 1922.8; 15-NOV-2008 01:46:57; Dark ; 48.0; 125; 44Iot Ori ; 2.77; 30000;occ; 96; 0;35084  
 10; 2365.6; 15-NOV-2008 01:54:19; Bright; 63.0; 13; 87Alp Tau ; 0.87; 3800;occ; 126; 0;35084  
 11; 2559.9; 15-NOV-2008 01:57:34; Bright; 44.5; 150; 44Zet Per ; 2.89; 28000;occ; 89; 0;35084  
 12; 2783.4; 15-NOV-2008 02:01:17; Bright; 59.5; 114; 3Iot Aur ; 2.69; 4600;occ; 119; 0;35084  
 13; 3040.3; 15-NOV-2008 02:05:34; Bright; 55.5; 6; 13Alp Aur ; 0.08; 3400;occ; 111; 0;35084  
 14; 3224.4; 15-NOV-2008 02:08:38; Bright; 57.5; 42; 34Bet Aur ; 1.90; 10200;occ; 115; 0;35084

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1; -1196.3; 15-NOV-2008 02:35:33; Bright; 88.5; 166; 17Eps Leo ; 2.98; 6000;occ; 177; 0;35084  
 2; -908.1; 15-NOV-2008 02:40:22; Dark ; 87.5; 22; 32Alp Leo ; 1.36; 15200;occ; 175; 0;35084  
 3; -118.9; 15-NOV-2008 02:53:31; Dark ; 116.5; 48; 30Alp Hya ; 1.98; 4100;occ; 233; 0;35084  
 4; 432.3; 15-NOV-2008 03:02:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35085  
 5; 690.5; 15-NOV-2008 03:07:00; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35085  
 6; 796.4; 15-NOV-2008 03:08:46; Dark ; 78.0; 88; 31Eta CMa ; 2.45; 20000;occ; 156; 0;35085  
 7; 933.4; 15-NOV-2008 03:11:03; Dark ; 82.0; 23; 21Eps CMa ; 1.50; 26000;occ; 164; 0;35085  
 8; 1076.3; 15-NOV-2008 03:13:26; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;35085  
 9; 1451.8; 15-NOV-2008 03:19:41; Dark ; 34.0; 47; 2Bet CMa ; 1.98; 28000;occ; 68; 0;35085



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10; 1796.5; 15-NOV-2008 03:25:26; Dark ; 88.5; 7; 19Bet Ori ; 0.10; 14000;occ; 177; 0;35085
11; 1921.9; 15-NOV-2008 03:27:32; Dark ; 48.0; 125; 44Iot Ori ; 2.77; 30000;occ; 96; 0;35085
12; 2364.7; 15-NOV-2008 03:34:54; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;35085
13; 2559.2; 15-NOV-2008 03:38:09; Bright; 44.0; 150; 44Zet Per ; 2.89; 28000;occ; 88; 0;35085
14; 2782.1; 15-NOV-2008 03:41:52; Bright; 59.0; 114; 3Iot Aur ; 2.69; 4600;occ; 118; 0;35085
15; 3039.3; 15-NOV-2008 03:46:09; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;35085
16; 3222.9; 15-NOV-2008 03:49:13; Bright; 61.0; 42; 34Bet Aur ; 1.90; 10200;occ; 122; 0;35085
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 2; -906.7; 15-NOV-2008 04:20:59; Dark ; 82.5; 22; 32Alp Leo ; 1.36; 15200;occ; 165; 0;35085
 3; -116.1; 15-NOV-2008 04:34:10; Dark ; 110.0; 48; 30Alp Hya ; 1.98; 4100;occ; 220; 0;35085
 4; 434.3; 15-NOV-2008 04:43:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35086
 5; 691.7; 15-NOV-2008 04:47:37; Dark ; 66.0; 117; Pi Pup ; 2.71; 3800;occ; 132; 0;35086
 6; 797.9; 15-NOV-2008 04:49:24; Dark ; 77.5; 88; 31Eta CMa ; 2.45; 20000;occ; 155; 0;35086
 7; 934.6; 15-NOV-2008 04:51:40; Dark ; 81.0; 23; 21Eps CMa ; 1.50; 26000;occ; 162; 0;35086
 8; 1077.0; 15-NOV-2008 04:54:03; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;35086
 9; 1452.1; 15-NOV-2008 05:00:18; Dark ; 38.0; 47; 2Bet CMa ; 1.98; 28000;occ; 76; 0;35086
10; 1795.9; 15-NOV-2008 05:06:02; Dark ; 87.0; 7; 19Bet Ori ; 0.10; 14000;occ; 174; 0;35086
11; 1921.1; 15-NOV-2008 05:08:07; Dark ; 54.0; 125; 44Iot Ori ; 2.77; 30000;occ; 108; 0;35086
12; 2363.7; 15-NOV-2008 05:15:29; Bright; 62.5; 13; 87Alp Tau ; 0.87; 3800;occ; 125; 0;35086
13; 2558.7; 15-NOV-2008 05:18:44; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;35086
14; 2781.0; 15-NOV-2008 05:22:27; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35086
15; 3038.3; 15-NOV-2008 05:26:44; Bright; 60.5; 6; 13Alp Aur ; 0.08; 3400;occ; 121; 0;35086
16; 3221.5; 15-NOV-2008 05:29:47; Bright; 62.0; 42; 34Bet Aur ; 1.90; 10200;occ; 124; 0;35086
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 2; -905.3; 15-NOV-2008 06:01:36; Dark ; 92.0; 22; 32Alp Leo ; 1.36; 15200;occ; 184; 0;35086
 3; -113.0; 15-NOV-2008 06:14:49; Dark ; 114.5; 48; 30Alp Hya ; 1.98; 4100;occ; 229; 0;35086
 4; 436.3; 15-NOV-2008 06:23:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35087
 5; 692.8; 15-NOV-2008 06:28:15; Dark ; 61.0; 117; Pi Pup ; 2.71; 3800;occ; 122; 0;35087
 6; 799.4; 15-NOV-2008 06:30:01; Dark ; 77.0; 88; 31Eta CMa ; 2.45; 20000;occ; 154; 0;35087
 7; 935.9; 15-NOV-2008 06:32:18; Dark ; 81.5; 23; 21Eps CMa ; 1.50; 26000;occ; 163; 0;35087
 8; 1077.8; 15-NOV-2008 06:34:39; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;35087
 9; 1452.4; 15-NOV-2008 06:40:54; Dark ; 38.0; 47; 2Bet CMa ; 1.98; 28000;occ; 76; 0;35087
10; 1795.6; 15-NOV-2008 06:46:37; Dark ; 84.0; 7; 19Bet Ori ; 0.10; 14000;occ; 168; 0;35087
11; 1920.2; 15-NOV-2008 06:48:42; Dark ; 54.0; 125; 44Iot Ori ; 2.77; 30000;occ; 108; 0;35087
12; 2362.9; 15-NOV-2008 06:56:05; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;35087
13; 2558.0; 15-NOV-2008 06:59:20; Bright; 44.5; 150; 44Zet Per ; 2.89; 28000;occ; 89; 0;35087
14; 2779.7; 15-NOV-2008 07:03:01; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35087
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 5; 1792.7; 15-NOV-2008 20:11:22; Dark ; 82.0; 7; 19Bet Ori ; 0.10; 14000;occ; 164; 0;35095
 6; 1913.3; 15-NOV-2008 20:13:22; Dark ; 80.0; 125; 44Iot Ori ; 2.77; 30000;occ; 160; 0;35095
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 8; 2769.9; 15-NOV-2008 20:27:39; Bright; 59.0; 114; 3Iot Aur ; 2.69; 4600;occ; 118; 0;35095
 9; 3028.8; 15-NOV-2008 20:31:58; Bright; 56.0; 6; 13Alp Aur ; 0.08; 3400;occ; 112; 0;35095
10; 3208.7; 15-NOV-2008 20:34:58; Bright; 64.5; 42; 34Bet Aur ; 1.90; 10200;occ; 129; 0;35095
11; 4742.0; 15-NOV-2008 21:00:31; Bright; 47.0; 96; 68Del Leo ; 2.56; 9300;occ; 94; 0;35095
12; 4850.8; 15-NOV-2008 21:02:20; Dark ; 100.0; 166; 17Eps Leo ; 2.98; 6000;occ; 200; 0;35095
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 3; 454.4; 15-NOV-2008 21:29:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35096
 4; 703.3; 15-NOV-2008 21:33:48; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0;35096
 5; 812.9; 15-NOV-2008 21:35:38; Dark ; 80.5; 88; 31Eta CMa ; 2.45; 20000;occ; 161; 0;35096
 6; 946.9; 15-NOV-2008 21:37:52; Dark ; 83.5; 23; 21Eps CMa ; 1.50; 26000;occ; 167; 0;35096
 7; 1083.4; 15-NOV-2008 21:40:08; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;35096
 8; 1455.4; 15-NOV-2008 21:46:20; Dark ; 58.0; 47; 2Bet CMa ; 1.98; 28000;occ; 116; 0;35096
 9; 1792.2; 15-NOV-2008 21:51:57; Dark ; 83.5; 7; 19Bet Ori ; 0.10; 14000;occ; 167; 0;35096
10; 1912.3; 15-NOV-2008 21:53:57; Dark ; 86.0; 125; 44Iot Ori ; 2.77; 30000;occ; 172; 0;35096
11; 2354.7; 15-NOV-2008 22:01:20; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;35096
12; 2768.6; 15-NOV-2008 22:08:14; Bright; 56.5; 114; 3Iot Aur ; 2.69; 4600;occ; 113; 0;35096
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15; 4742.4; 15-NOV-2008 22:41:07; Bright; 47.5; 96; 68Del Leo ; 2.56; 9300;occ; 95; 0;35096
16; 4851.8; 15-NOV-2008 22:42:57; Dark ; 106.5; 166; 17Eps Leo ; 2.98; 6000;occ; 213; 0;35096
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 3; 704.6; 15-NOV-2008 23:14:25; Dark ; 69.0; 117; Pi Pup ; 2.71; 3800;occ; 138; 0;35097
 4; 814.3; 15-NOV-2008 23:16:15; Dark ; 82.0; 88; 31Eta CMa ; 2.45; 20000;occ; 164; 0;35097
 5; 948.2; 15-NOV-2008 23:18:29; Dark ; 75.0; 23; 21Eps CMa ; 1.50; 26000;occ; 150; 0;35097
 6; 1083.8; 15-NOV-2008 23:20:45; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;35097
 7; 1455.7; 15-NOV-2008 23:26:57; Dark ; 58.0; 47; 2Bet CMa ; 1.98; 28000;occ; 116; 0;35097
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10; 2353.8; 15-NOV-2008 23:41:55; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;35097
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12; 3026.6; 15-NOV-2008 23:53:07; Bright; 55.5; 6; 13Alp Aur ; 0.08; 3400;occ; 111; 0;35097
13; 3205.9; 15-NOV-2008 23:56:07; Bright; 59.0; 42; 34Bet Aur ; 1.90; 10200;occ; 118; 0;35097
14; 4742.8; 16-NOV-2008 00:21:44; Bright; 48.0; 96; 68Del Leo ; 2.56; 9300;occ; 96; 0;35097
15; 4852.8; 16-NOV-2008 00:23:34; Dark ; 104.0; 166; 17Eps Leo ; 2.98; 6000;occ; 208; 0;35097
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 4; 438.3; 15-NOV-2008 08:04:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35088
 5; 694.0; 15-NOV-2008 08:08:52; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35088
 6; 800.8; 15-NOV-2008 08:10:38; Dark ; 79.0; 88; 31Eta CMa ; 2.45; 20000;occ; 158; 0;35088
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 8; 1078.3; 15-NOV-2008 08:15:16; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;35088
 9; 1452.8; 15-NOV-2008 08:21:30; Dark ; 41.5; 47; 2Bet CMa ; 1.98; 28000;occ; 83; 0;35088
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 2; 1919.2; 15-NOV-2008 08:29:17; Dark ; 61.0; 125; 44Iot Ori ; 2.77; 30000;occ; 122; 0;35088
 3; 2361.9; 15-NOV-2008 08:36:40; Bright; 61.0; 13; 87Alp Tau ; 0.87; 3800;occ; 122; 0;35088
 4; 2557.5; 15-NOV-2008 08:39:55; Bright; 44.0; 150; 44Zet Per ; 2.89; 28000;occ; 88; 0;35088
 5; 2778.4; 15-NOV-2008 08:43:36; Bright; 60.5; 114; 3Iot Aur ; 2.69; 4600;occ; 121; 0;35088
 6; 3036.2; 15-NOV-2008 08:47:54; Bright; 56.0; 6; 13Alp Aur ; 0.08; 3400;occ; 112; 0;35088
 7; 3218.6; 15-NOV-2008 08:50:56; Bright; 60.0; 42; 34Bet Aur ; 1.90; 10200;occ; 120; 0;35088
 8; 4739.4; 15-NOV-2008 09:16:17; Bright; 45.0; 96; 68Del Leo ; 2.56; 9300;occ; 90; 0;35088
 9; 4843.6; 15-NOV-2008 09:18:01; Dark ; 93.0; 166; 17Eps Leo ; 2.98; 6000;occ; 186; 0;35088
10; 5133.4; 15-NOV-2008 09:22:51; Dark ; 86.5; 22; 32Alp Leo ; 1.36; 15200;occ; 173; 0;35088
11; 5928.9; 15-NOV-2008 09:36:06; Dark ; 110.5; 48; 30Alp Hya ; 1.98; 4100;occ; 221; 0;35088
12; 6476.2; 15-NOV-2008 09:45:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35088
13; 6731.0; 15-NOV-2008 09:49:29; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35088
14; 6838.4; 15-NOV-2008 09:51:16; Dark ; 79.0; 88; 31Eta CMa ; 2.45; 20000;occ; 158; 0;35088
15; 6974.3; 15-NOV-2008 09:53:32; Dark ; 80.5; 23; 21Eps CMa ; 1.50; 26000;occ; 161; 0;35088
16; 7115.0; 15-NOV-2008 09:55:53; Dark ; 50.5; 108; Alp Col ; 2.65; 15200;occ; 101; 0;35088
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 3; 2361.0; 15-NOV-2008 10:17:14; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;35089
 4; 2558.6; 15-NOV-2008 10:20:32; Bright; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;35089
 5; 2777.3; 15-NOV-2008 10:24:11; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35089
 6; 3035.1; 15-NOV-2008 10:28:29; Bright; 56.5; 6; 13Alp Aur ; 0.08; 3400;occ; 113; 0;35089
 7; 3217.1; 15-NOV-2008 10:31:31; Bright; 60.0; 42; 34Bet Aur ; 1.90; 10200;occ; 120; 0;35089
 8; 4739.7; 15-NOV-2008 10:56:53; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35089
 9; 4844.6; 15-NOV-2008 10:58:38; Dark ; 94.5; 166; 17Eps Leo ; 2.98; 6000;occ; 189; 0;35089
10; 5134.8; 15-NOV-2008 11:03:28; Dark ; 87.5; 22; 32Alp Leo ; 1.36; 15200;occ; 175; 0;35089
11; 5932.0; 15-NOV-2008 11:16:45; Dark ; 115.0; 48; 30Alp Hya ; 1.98; 4100;occ; 230; 0;35089
12; 6478.2; 15-NOV-2008 11:25:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35089
13; 6732.2; 15-NOV-2008 11:30:06; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35089
14; 6839.8; 15-NOV-2008 11:31:53; Dark ; 75.0; 88; 31Eta CMa ; 2.45; 20000;occ; 150; 0;35089
15; 6975.6; 15-NOV-2008 11:34:09; Dark ; 78.5; 23; 21Eps CMa ; 1.50; 26000;occ; 157; 0;35089
16; 7115.6; 15-NOV-2008 11:36:29; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;35089
17; 7489.5; 15-NOV-2008 11:42:43; Dark ; 45.5; 47; 2Bet CMa ; 1.98; 28000;occ; 91; 0;35089
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 3; 1917.4; 15-NOV-2008 11:50:27; Dark ; 67.0; 125; 44Iot Ori ; 2.77; 30000;occ; 134; 0;35090  
 4; 2360.1; 15-NOV-2008 11:57:49; Bright; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;35090  
 5; 2776.0; 15-NOV-2008 12:04:45; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35090  
 6; 3034.0; 15-NOV-2008 12:09:03; Bright; 69.5; 6; 13Alp Aur ; 0.08; 3400;occ; 139; 0;35090  
 7; 4740.1; 15-NOV-2008 12:37:29; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35090  
 8; 4845.5; 15-NOV-2008 12:39:15; Dark ; 100.0; 166; 17Eps Leo ; 2.98; 6000;occ; 200; 0;35090  
 9; 5136.3; 15-NOV-2008 12:44:06; Dark ; 89.5; 22; 32Alp Leo ; 1.36; 15200;occ; 179; 0;35090  
 10; 5935.1; 15-NOV-2008 12:57:24; Dark ; 114.5; 48; 30Alp Hya ; 1.98; 4100;occ; 229; 0;35090  
 11; 6480.2; 15-NOV-2008 13:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35090  
 12; 6733.3; 15-NOV-2008 13:10:43; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0;35090  
 13; 6841.5; 15-NOV-2008 13:12:31; Dark ; 78.0; 88; 31Eta CMA ; 2.45; 20000;occ; 156; 0;35090  
 14; 6976.9; 15-NOV-2008 13:14:46; Dark ; 80.0; 23; 21Eps CMA ; 1.50; 26000;occ; 160; 0;35090  
 15; 7116.1; 15-NOV-2008 13:17:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;35090  
 16; 7489.7; 15-NOV-2008 13:23:19; Dark ; 45.5; 47; 2Bet CMA ; 1.98; 28000;occ; 91; 0;35090

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 2; 1794.1; 15-NOV-2008 13:28:59; Dark ; 83.5; 7; 19Bet Ori ; 0.10; 14000;occ; 167; 0;35091  
 3; 1916.7; 15-NOV-2008 13:31:02; Dark ; 67.0; 125; 44Iot Ori ; 2.77; 30000;occ; 134; 0;35091  
 4; 2359.2; 15-NOV-2008 13:38:24; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;35091  
 5; 2774.9; 15-NOV-2008 13:45:20; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35091  
 6; 3033.0; 15-NOV-2008 13:49:38; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;35091  
 7; 3214.4; 15-NOV-2008 13:52:40; Bright; 60.5; 42; 34Bet Aur ; 1.90; 10200;occ; 121; 0;35091  
 8; 4740.4; 15-NOV-2008 14:18:06; Bright; 47.5; 96; 68Del Leo ; 2.56; 9300;occ; 95; 0;35091  
 9; 4846.6; 15-NOV-2008 14:19:52; Dark ; 98.5; 166; 17Eps Leo ; 2.98; 6000;occ; 197; 0;35091  
 10; 5137.7; 15-NOV-2008 14:24:43; Dark ; 91.0; 22; 32Alp Leo ; 1.36; 15200;occ; 182; 0;35091  
 11; 5938.2; 15-NOV-2008 14:38:03; Dark ; 116.5; 48; 30Alp Hya ; 1.98; 4100;occ; 233; 0;35091  
 12; 6482.3; 15-NOV-2008 14:47:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35091  
 13; 6734.7; 15-NOV-2008 14:51:20; Dark ; 77.0; 117; Pi Pup ; 2.71; 3800;occ; 154; 0;35091  
 14; 6843.0; 15-NOV-2008 14:53:08; Dark ; 79.0; 88; 31Eta CMA ; 2.45; 20000;occ; 158; 0;35091  
 15; 6978.0; 15-NOV-2008 14:55:23; Dark ; 80.0; 23; 21Eps CMA ; 1.50; 26000;occ; 160; 0;35091  
 16; 7116.9; 15-NOV-2008 14:57:42; Dark ; 51.5; 108; Alp Col ; 2.65; 15200;occ; 103; 0;35091

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 4; 2358.4; 15-NOV-2008 15:19:00; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;35092  
 5; 2773.6; 15-NOV-2008 15:25:55; Bright; 59.5; 114; 3Iot Aur ; 2.69; 4600;occ; 119; 0;35092  
 6; 3032.1; 15-NOV-2008 15:30:13; Bright; 57.5; 6; 13Alp Aur ; 0.08; 3400;occ; 115; 0;35092  
 7; 3213.2; 15-NOV-2008 15:33:14; Bright; 62.0; 42; 34Bet Aur ; 1.90; 10200;occ; 124; 0;35092  
 8; 4740.9; 15-NOV-2008 15:58:42; Bright; 45.5; 96; 68Del Leo ; 2.56; 9300;occ; 91; 0;35092  
 9; 4847.8; 15-NOV-2008 16:00:29; Dark ; 96.5; 166; 17Eps Leo ; 2.98; 6000;occ; 193; 0;35092  
 10; 5139.2; 15-NOV-2008 16:05:20; Dark ; 93.0; 22; 32Alp Leo ; 1.36; 15200;occ; 186; 0;35092  
 11; 5941.5; 15-NOV-2008 16:18:43; Dark ; 119.5; 48; 30Alp Hya ; 1.98; 4100;occ; 239; 0;35092  
 12; 6484.4; 15-NOV-2008 16:27:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35092  
 13; 6736.0; 15-NOV-2008 16:31:57; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;35092  
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 5; 2772.4; 15-NOV-2008 17:06:30; Bright; 65.0; 114; 3Iot Aur ; 2.69; 4600;occ; 130; 0;35093  
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 7; 3211.9; 15-NOV-2008 17:13:49; Bright; 63.0; 42; 34Bet Aur ; 1.90; 10200;occ; 126; 0;35093  
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12; 3025.6; 16-NOV-2008 01:33:42; Bright; 54.5; 6; 13Alp Aur ; 0.08; 3400;occ; 109; 0;35098
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3; 460.4; 16-NOV-2008 02:31:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35099
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6; 950.7; 16-NOV-2008 02:39:43; Dark ; 76.0; 23; 21Eps CMA ; 1.50; 26000;occ; 152; 0;35099
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5; 462.4; 16-NOV-2008 04:12:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35100
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9; 1086.0; 16-NOV-2008 04:22:35; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;35100
10; 1456.7; 16-NOV-2008 04:28:45; Dark ; 66.0; 47; 2Bet CMA ; 1.98; 28000;occ; 132; 0;35100
11; 1791.0; 16-NOV-2008 04:34:20; Dark ; 84.5; 7; 19Bet Ori ; 0.10; 14000;occ; 169; 0;35100
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14; 2351.3; 16-NOV-2008 04:43:40; Bright; 61.0; 13; 87Alp Tau ; 0.87; 3800;occ; 122; 0;35100
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13; 2350.4; 16-NOV-2008 06:24:15; Bright; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;35101
14; 2763.0; 16-NOV-2008 06:31:08; Bright; 57.5; 114; 3Iot Aur ; 2.69; 4600;occ; 115; 0;35101
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7; 954.3; 16-NOV-2008 07:41:35; Dark ; 79.5; 23; 21Eps CMa ; 1.50; 26000;occ; 159; 0;35102
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5; 2761.8; 16-NOV-2008 08:11:42; Bright; 58.0; 114; 3Iot Aur ; 2.69; 4600;occ; 116; 0;35102
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13; 4214.3; 20-NOV-2008 23:15:26; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;35168
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15; 2906.1; 25-NOV-2008 05:10:10; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;35229
16; 3040.7; 25-NOV-2008 05:12:25; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;35229
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 2; -1228.5; 25-NOV-2008 05:41:52; Bright; 61.5; 96; 68Del Leo ; 2.56; 9300;occ; 123; 0;35229
 3; -1013.8; 25-NOV-2008 05:45:26; Dark ; 64.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 128; 0;35229
 4; 126.4; 25-NOV-2008 06:04:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35230
 5; 625.1; 25-NOV-2008 06:12:45; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35230
 6; 847.9; 25-NOV-2008 06:16:28; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35230
 7; 1085.8; 25-NOV-2008 06:20:26; Dark ; 71.0; 23; 21Eps CMa ; 1.50; 26000;occ; 142; 0;35230
 8; 1221.8; 25-NOV-2008 06:22:42; Dark ; 83.0; 179; 240mi2CMa ; 3.03; 24000;occ; 166; 0;35230
 9; 1520.1; 25-NOV-2008 06:27:40; Dark ; 109.0; 1; 9Alp CMa ; -1.44; 11000;occ; 218; 0;35230
10; 1761.1; 25-NOV-2008 06:31:41; Dark ; 67.0; 7; 19Bet Ori ; 0.10; 14000;occ; 134; 0;35230
11; 1972.1; 25-NOV-2008 06:35:12; Dark ; 71.5; 30; 46Eps Ori ; 1.69; 30000;occ; 143; 0;35230
12; 2148.3; 25-NOV-2008 06:38:08; Dark ; 76.5; 27; 24Gam Ori ; 1.64; 26000;occ; 153; 0;35230
13; 2265.3; 25-NOV-2008 06:40:05; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35230
14; 2639.0; 25-NOV-2008 06:46:19; Bright; 48.0; 114; 3Iot Aur ; 2.69; 4600;occ; 96; 0;35230
15; 2905.3; 25-NOV-2008 06:50:45; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35230
16; 3039.6; 25-NOV-2008 06:53:00; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35230
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 2; -1228.1; 25-NOV-2008 07:22:28; Bright; 60.0; 96; 68Del Leo ; 2.56; 9300;occ; 120; 0;35230
 3; -1012.2; 25-NOV-2008 07:26:04; Dark ; 56.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 112; 0;35230
 4; 129.0; 25-NOV-2008 07:45:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35231
 5; 626.1; 25-NOV-2008 07:53:22; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;35231
 6; 848.9; 25-NOV-2008 07:57:05; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35231
 7; 1086.7; 25-NOV-2008 08:01:03; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;35231
 8; 1222.4; 25-NOV-2008 08:03:18; Dark ; 81.0; 179; 240mi2CMa ; 3.03; 24000;occ; 162; 0;35231
 9; 1520.2; 25-NOV-2008 08:08:16; Dark ; 110.5; 1; 9Alp CMa ; -1.44; 11000;occ; 221; 0;35231
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 2; 1971.6; 25-NOV-2008 08:15:48; Dark ; 69.5; 30; 46Eps Ori ; 1.69; 30000;occ; 139; 0;35231
 3; 2147.4; 25-NOV-2008 08:18:43; Dark ; 67.0; 27; 24Gam Ori ; 1.64; 26000;occ; 134; 0;35231
 4; 2264.9; 25-NOV-2008 08:20:41; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35231
 5; 2638.2; 25-NOV-2008 08:26:54; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35231
 6; 2904.5; 25-NOV-2008 08:31:21; Bright; 70.0; 6; 13Alp Aur ; 0.08; 3400;occ; 140; 0;35231
 7; 3038.4; 25-NOV-2008 08:33:34; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35231
 8; 4204.4; 25-NOV-2008 08:53:00; Bright; 49.0; 174; 52Psi UMa ; 3.00; 4400;occ; 98; 0;35231
 9; 4808.5; 25-NOV-2008 09:03:05; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35231
10; 5025.5; 25-NOV-2008 09:06:42; Dark ; 56.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 112; 0;35231
11; 6167.4; 25-NOV-2008 09:25:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35231
12; 6663.1; 25-NOV-2008 09:33:59; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35231
13; 6885.7; 25-NOV-2008 09:37:42; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;35231
14; 7123.4; 25-NOV-2008 09:41:39; Dark ; 73.5; 23; 21Eps CMa ; 1.50; 26000;occ; 147; 0;35231
15; 7259.0; 25-NOV-2008 09:43:55; Dark ; 82.0; 179; 240mi2CMa ; 3.03; 24000;occ; 164; 0;35231
16; 7556.2; 25-NOV-2008 09:48:52; Dark ; 109.5; 1; 9Alp CMa ; -1.44; 11000;occ; 219; 0;35231
17; 7796.7; 25-NOV-2008 09:52:53; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;35231
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 2; 1971.0; 25-NOV-2008 09:56:23; Dark ; 68.5; 30; 46Eps Ori ; 1.69; 30000;occ; 137; 0;35232
 3; 2146.6; 25-NOV-2008 09:59:18; Dark ; 67.0; 27; 24Gam Ori ; 1.64; 26000;occ; 134; 0;35232
 4; 2264.4; 25-NOV-2008 10:01:16; Bright; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;35232
 5; 2637.5; 25-NOV-2008 10:07:29; Bright; 50.0; 114; 3Iot Aur ; 2.69; 4600;occ; 100; 0;35232
 6; 2903.7; 25-NOV-2008 10:11:56; Bright; 52.5; 6; 13Alp Aur ; 0.08; 3400;occ; 105; 0;35232
 7; 3037.4; 25-NOV-2008 10:14:09; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35232
 8; 4204.2; 25-NOV-2008 10:33:36; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35232
 9; 4809.2; 25-NOV-2008 10:43:41; Bright; 58.5; 96; 68Del Leo ; 2.56; 9300;occ; 117; 0;35232
10; 5027.2; 25-NOV-2008 10:47:19; Dark ; 48.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 96; 0;35232
11; 6170.0; 25-NOV-2008 11:06:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35232
12; 6664.3; 25-NOV-2008 11:14:36; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35232
13; 6886.6; 25-NOV-2008 11:18:19; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35232
14; 7124.4; 25-NOV-2008 11:22:16; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0;35232
15; 7259.9; 25-NOV-2008 11:24:32; Dark ; 77.0; 179; 240mi2CMa ; 3.03; 24000;occ; 154; 0;35232
16; 7556.3; 25-NOV-2008 11:29:28; Dark ; 115.5; 1; 9Alp CMa ; -1.44; 11000;occ; 231; 0;35232

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2; 1760.6; 25-NOV-2008 11:33:28; Dark ; 67.5; 7; 19Bet Ori ; 0.10; 14000;occ; 135; 0;35233  
3; 1970.4; 25-NOV-2008 11:36:58; Dark ; 73.0; 30; 46Eps Ori ; 1.69; 30000;occ; 146; 0;35233  
4; 2145.9; 25-NOV-2008 11:39:54; Dark ; 74.0; 27; 24Gam Ori ; 1.64; 26000;occ; 148; 0;35233  
5; 2263.8; 25-NOV-2008 11:41:52; Bright; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;35233  
6; 2636.7; 25-NOV-2008 11:48:05; Bright; 49.5; 114; 3Iot Aur ; 2.69; 4600;occ; 99; 0;35233  
7; 2902.9; 25-NOV-2008 11:52:31; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35233  
8; 3036.2; 25-NOV-2008 11:54:44; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35233  
9; 4203.9; 25-NOV-2008 12:14:12; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35233  
10; 4809.7; 25-NOV-2008 12:24:18; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35233  
11; 5028.8; 25-NOV-2008 12:27:57; Dark ; 48.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 96; 0;35233  
12; 6172.6; 25-NOV-2008 12:47:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35233  
13; 6665.5; 25-NOV-2008 12:55:13; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35233  
14; 6887.5; 25-NOV-2008 12:58:55; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;35233  
15; 7125.1; 25-NOV-2008 13:02:53; Dark ; 73.5; 23; 21Eps CMA ; 1.50; 26000;occ; 147; 0;35233  
16; 7260.7; 25-NOV-2008 13:05:09; Dark ; 81.5; 179; 240mi2CMA ; 3.03; 24000;occ; 163; 0;35233  
17; 7556.5; 25-NOV-2008 13:10:04; Dark ; 24.0; 1; 9Alp CMA ; -1.44; 11000;occ; 48; 0;35233

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2; 1227.7; 25-NOV-2008 19:47:35; Dark ; 81.5; 179; 240mi2CMA ; 3.03; 24000;occ; 163; 0;35238  
3; 1521.0; 25-NOV-2008 19:52:29; Dark ; 102.0; 1; 9Alp CMA ; -1.44; 11000;occ; 204; 0;35238  
4; 1760.0; 25-NOV-2008 19:56:28; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;35238  
5; 1967.4; 25-NOV-2008 19:59:55; Dark ; 72.0; 30; 46Eps Ori ; 1.69; 30000;occ; 144; 0;35238  
6; 2142.1; 25-NOV-2008 20:02:50; Dark ; 68.0; 27; 24Gam Ori ; 1.64; 26000;occ; 136; 0;35238  
7; 2261.3; 25-NOV-2008 20:04:49; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;35238  
8; 2633.0; 25-NOV-2008 20:11:01; Bright; 49.5; 114; 3Iot Aur ; 2.69; 4600;occ; 99; 0;35238  
9; 2899.0; 25-NOV-2008 20:15:27; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35238  
10; 3030.7; 25-NOV-2008 20:17:38; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;35238  
11; 4202.9; 25-NOV-2008 20:37:11; Bright; 52.5; 174; 52Psi UMa ; 3.00; 4400;occ; 105; 0;35238  
12; 4812.8; 25-NOV-2008 20:47:20; Bright; 58.0; 96; 68Del Leo ; 2.56; 9300;occ; 116; 0;35238

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1; 149.8; 25-NOV-2008 21:10:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35239  
2; 635.2; 25-NOV-2008 21:18:19; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;35239  
3; 856.3; 25-NOV-2008 21:22:00; Dark ; 75.0; 117; Pi Pup ; 2.71; 3800;occ; 150; 0;35239  
4; 1093.4; 25-NOV-2008 21:25:57; Dark ; 75.0; 23; 21Eps CMA ; 1.50; 26000;occ; 150; 0;35239  
5; 1228.5; 25-NOV-2008 21:28:12; Dark ; 79.5; 179; 240mi2CMA ; 3.03; 24000;occ; 159; 0;35239  
6; 1521.3; 25-NOV-2008 21:33:05; Dark ; 107.5; 1; 9Alp CMA ; -1.44; 11000;occ; 215; 0;35239  
7; 1759.7; 25-NOV-2008 21:37:03; Dark ; 62.0; 7; 19Bet Ori ; 0.10; 14000;occ; 124; 0;35239  
8; 1966.8; 25-NOV-2008 21:40:30; Dark ; 72.0; 30; 46Eps Ori ; 1.69; 30000;occ; 144; 0;35239  
9; 2141.2; 25-NOV-2008 21:43:25; Dark ; 86.0; 27; 24Gam Ori ; 1.64; 26000;occ; 172; 0;35239  
10; 2260.8; 25-NOV-2008 21:45:24; Bright; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;35239  
11; 2632.0; 25-NOV-2008 21:51:36; Bright; 48.0; 114; 3Iot Aur ; 2.69; 4600;occ; 96; 0;35239  
12; 2898.3; 25-NOV-2008 21:56:02; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35239  
13; 3029.5; 25-NOV-2008 21:58:13; Bright; 56.0; 42; 34Bet Aur ; 1.90; 10200;occ; 112; 0;35239  
14; 4202.8; 25-NOV-2008 22:17:46; Bright; 49.0; 174; 52Psi UMa ; 3.00; 4400;occ; 98; 0;35239  
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1; 152.4; 25-NOV-2008 22:50:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35240  
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3; 857.3; 25-NOV-2008 23:02:37; Dark ; 68.0; 117; Pi Pup ; 2.71; 3800;occ; 136; 0;35240  
4; 1094.3; 25-NOV-2008 23:06:34; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;35240  
5; 1229.2; 25-NOV-2008 23:08:49; Dark ; 79.5; 179; 240mi2CMA ; 3.03; 24000;occ; 159; 0;35240  
6; 1521.2; 25-NOV-2008 23:13:41; Dark ; 105.5; 1; 9Alp CMA ; -1.44; 11000;occ; 211; 0;35240  
7; 1759.7; 25-NOV-2008 23:17:39; Dark ; 65.0; 7; 19Bet Ori ; 0.10; 14000;occ; 130; 0;35240  
8; 1966.1; 25-NOV-2008 23:21:06; Dark ; 72.0; 30; 46Eps Ori ; 1.69; 30000;occ; 144; 0;35240  
9; 2140.5; 25-NOV-2008 23:24:00; Dark ; 75.0; 27; 24Gam Ori ; 1.64; 26000;occ; 150; 0;35240  
10; 2260.3; 25-NOV-2008 23:26:00; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;35240  
11; 2631.3; 25-NOV-2008 23:32:11; Bright; 50.0; 114; 3Iot Aur ; 2.69; 4600;occ; 100; 0;35240  
12; 2897.5; 25-NOV-2008 23:36:37; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;35240  
13; 3028.4; 25-NOV-2008 23:38:48; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35240  
14; 4202.5; 25-NOV-2008 23:58:22; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;35240  
15; 4814.0; 26-NOV-2008 00:08:33; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35240

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2; 1760.4; 25-NOV-2008 14:54:40; Dark ; 72.0; 7; 19Bet Ori ; 0.10; 14000;occ; 144; 0;35235  
3; 1969.2; 25-NOV-2008 14:58:09; Dark ; 71.5; 30; 46Eps Ori ; 1.69; 30000;occ; 143; 0;35235  
4; 2144.4; 25-NOV-2008 15:01:04; Dark ; 80.0; 27; 24Gam Ori ; 1.64; 26000;occ; 160; 0;35235

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6; 2635.2; 25-NOV-2008 15:09:15; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35235
7; 2901.4; 25-NOV-2008 15:13:41; Bright; 50.5; 6; 13Alp Aur ; 0.08; 3400;occ; 101; 0;35235
8; 3034.1; 25-NOV-2008 15:15:54; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35235
9; 4203.9; 25-NOV-2008 15:35:24; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35235
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13; 6667.8; 25-NOV-2008 16:16:27; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35235
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4; 1968.6; 25-NOV-2008 16:38:44; Dark ; 70.0; 30; 46Eps Ori ; 1.69; 30000;occ; 140; 0;35236
5; 2143.7; 25-NOV-2008 16:41:39; Dark ; 76.0; 27; 24Gam Ori ; 1.64; 26000;occ; 152; 0;35236
6; 2262.3; 25-NOV-2008 16:43:38; Bright; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;35236
7; 2634.5; 25-NOV-2008 16:49:50; Bright; 50.5; 114; 3Iot Aur ; 2.69; 4600;occ; 101; 0;35236
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9; 3033.0; 25-NOV-2008 16:56:29; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;35236
10; 4203.7; 25-NOV-2008 17:15:59; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;35236
11; 4811.7; 25-NOV-2008 17:26:07; Bright; 61.0; 96; 68Del Leo ; 2.56; 9300;occ; 122; 0;35236
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13; 2629.3; 26-NOV-2008 04:33:56; Bright; 49.0; 114; 3Iot Aur ; 2.69; 4600;occ; 98; 0;35243
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6; 1097.8; 26-NOV-2008 05:49:01; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35244
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13; 6903.0; 26-NOV-2008 15:48:46; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35249
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5; 1758.1; 26-NOV-2008 21:05:25; Dark ; 61.5; 7; 19Bet Ori ; 0.10; 14000;occ; 123; 0;35253
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13; 4822.2; 26-NOV-2008 21:56:29; Bright; 76.0; 96; 68Del Leo ; 2.56; 9300;occ; 152; 0;35253
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6; 2131.8; 26-NOV-2008 19:31:03; Dark ; 71.5; 27; 24Gam Ori ; 1.64; 26000;occ; 143; 0;35252
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9; 2888.3; 26-NOV-2008 19:43:39; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;35252
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4; 1106.7; 27-NOV-2008 00:15:45; Dark ; 71.0; 23; 21Eps CMA ; 1.50; 26000;occ; 142; 0;35255
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9; 2129.7; 27-NOV-2008 00:32:48; Dark ; 79.0; 27; 24Gam Ori ; 1.64; 26000;occ; 158; 0;35255
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4; 1107.6; 27-NOV-2008 01:56:22; Dark ; 70.5; 23; 21Eps CMA ; 1.50; 26000;occ; 141; 0;35256
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8; 1951.7; 27-NOV-2008 22:17:37; Dark ; 68.0; 30; 46Eps Ori ; 1.69; 30000;occ; 136; 0;35268
9; 2121.1; 27-NOV-2008 22:20:27; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;35268
10; 2246.1; 27-NOV-2008 22:22:32; Bright; 84.0; 14; 58Alp Ori ; 0.87; 3000;occ; 168; 0;35268
11; 2509.7; 27-NOV-2008 22:26:55; Bright; 58.0; 176; 23Zet Tau ; 3.02; 22000;occ; 116; 0;35268
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13; 2998.6; 27-NOV-2008 22:35:04; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35268
14; 4197.0; 27-NOV-2008 22:55:03; Bright; 51.5; 174; 52Psi UMa ; 3.00; 4400;occ; 103; 0;35268
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2; 668.5; 27-NOV-2008 23:36:50; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;35269
3; 884.4; 27-NOV-2008 23:40:26; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;35269
4; 1117.9; 27-NOV-2008 23:44:19; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35269
5; 1250.3; 27-NOV-2008 23:46:32; Dark ; 77.5; 179; 240mi2CMA ; 3.03; 24000;occ; 155; 0;35269
6; 1525.2; 27-NOV-2008 23:51:07; Dark ; 101.5; 1; 9Alp CMA ; -1.44; 11000;occ; 203; 0;35269
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8; 1951.0; 27-NOV-2008 23:58:13; Dark ; 66.5; 30; 46Eps Ori ; 1.69; 30000;occ; 133; 0;35269
9; 2120.2; 28-NOV-2008 00:01:02; Dark ; 68.0; 27; 24Gam Ori ; 1.64; 26000;occ; 136; 0;35269
10; 2244.9; 28-NOV-2008 00:03:06; Bright; 88.0; 14; 58Alp Ori ; 0.87; 3000;occ; 176; 0;35269
11; 2508.5; 28-NOV-2008 00:07:30; Bright; 60.5; 176; 23Zet Tau ; 3.02; 22000;occ; 121; 0;35269
12; 2875.7; 28-NOV-2008 00:13:37; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35269
13; 2997.5; 28-NOV-2008 00:15:39; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35269
14; 4196.9; 28-NOV-2008 00:35:38; Bright; 50.0; 174; 52Psi UMa ; 3.00; 4400;occ; 100; 0;35269
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3; 203.2; 27-NOV-2008 06:43:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35259
4; 657.5; 27-NOV-2008 06:50:40; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;35259
5; 875.3; 27-NOV-2008 06:54:18; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35259
6; 1110.1; 27-NOV-2008 06:58:12; Dark ; 66.0; 23; 21Eps CMA ; 1.50; 26000;occ; 132; 0;35259
7; 1243.2; 27-NOV-2008 07:00:25; Dark ; 76.0; 179; 240mi2CMA ; 3.03; 24000;occ; 152; 0;35259
8; 1523.8; 27-NOV-2008 07:05:06; Dark ; 104.5; 1; 9Alp CMA ; -1.44; 11000;occ; 209; 0;35259
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3; 2127.1; 27-NOV-2008 07:15:09; Dark ; 67.5; 27; 24Gam Ori ; 1.64; 26000;occ; 135; 0;35259
4; 2257.5; 27-NOV-2008 07:17:20; Bright; 86.0; 14; 58Alp Ori ; 0.87; 3000;occ; 172; 0;35259
5; 2617.6; 27-NOV-2008 07:23:20; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35259
6; 2883.1; 27-NOV-2008 07:27:45; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35259
7; 3008.1; 27-NOV-2008 07:29:50; Bright; 79.0; 42; 34Bet Aur ; 1.90; 10200;occ; 158; 0;35259
8; 4199.0; 27-NOV-2008 07:49:41; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;35259
9; 4826.5; 27-NOV-2008 08:00:09; Bright; 63.5; 96; 68Del Leo ; 2.56; 9300;occ; 127; 0;35259
10; 6241.8; 27-NOV-2008 08:23:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35259
11; 6694.5; 27-NOV-2008 08:31:17; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35259
12; 6912.2; 27-NOV-2008 08:34:54; Dark ; 59.0; 117; Pi Pup ; 2.71; 3800;occ; 118; 0;35259
13; 7146.9; 27-NOV-2008 08:38:49; Dark ; 69.5; 23; 21Eps CMA ; 1.50; 26000;occ; 139; 0;35259
14; 7280.0; 27-NOV-2008 08:41:02; Dark ; 77.0; 179; 240mi2CMA ; 3.03; 24000;occ; 154; 0;35259
15; 7560.0; 27-NOV-2008 08:45:42; Dark ; 108.5; 1; 9Alp CMA ; -1.44; 11000;occ; 217; 0;35259
16; 7793.2; 27-NOV-2008 08:49:35; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;35259

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 3; 2126.4; 27-NOV-2008 08:55:45; Dark ; 74.0; 27; 24Gam Ori ; 1.64; 26000;occ; 148; 0;35260  
 4; 2256.1; 27-NOV-2008 08:57:54; Bright; 86.5; 14; 58Alp Ori ; 0.87; 3000;occ; 173; 0;35260  
 5; 2616.9; 27-NOV-2008 09:03:55; Bright; 49.0; 114; 3Iot Aur ; 2.69; 4600;occ; 98; 0;35260  
 6; 2882.4; 27-NOV-2008 09:08:21; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;35260  
 7; 3007.0; 27-NOV-2008 09:10:25; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35260  
 8; 4198.8; 27-NOV-2008 09:30:17; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;35260  
 9; 4827.1; 27-NOV-2008 09:40:45; Bright; 64.5; 96; 68Del Leo ; 2.56; 9300;occ; 129; 0;35260  
 10; 6244.5; 27-NOV-2008 10:04:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35260  
 11; 6695.4; 27-NOV-2008 10:11:54; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35260  
 12; 6913.0; 27-NOV-2008 10:15:31; Dark ; 62.5; 117; Pi Pup ; 2.71; 3800;occ; 125; 2;35260  
 13; 7147.5; 27-NOV-2008 10:19:26; Dark ; 69.5; 23; 21Eps CMA ; 1.50; 26000;occ; 139; 0;35260  
 14; 7280.6; 27-NOV-2008 10:21:39; Dark ; 76.5; 179; 240mi2CMA ; 3.03; 24000;occ; 153; 0;35260  
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 2; 1955.1; 27-NOV-2008 10:33:29; Dark ; 65.0; 30; 46Eps Ori ; 1.69; 30000;occ; 130; 0;35261  
 3; 2125.6; 27-NOV-2008 10:36:20; Dark ; 72.0; 27; 24Gam Ori ; 1.64; 26000;occ; 144; 0;35261  
 4; 2254.8; 27-NOV-2008 10:38:29; Bright; 87.0; 14; 58Alp Ori ; 0.87; 3000;occ; 174; 0;35261  
 5; 2616.2; 27-NOV-2008 10:44:30; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35261  
 6; 2881.6; 27-NOV-2008 10:48:56; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35261  
 7; 3005.9; 27-NOV-2008 10:51:00; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;35261  
 8; 4198.6; 27-NOV-2008 11:10:53; Bright; 50.0; 174; 52Psi UMa ; 3.00; 4400;occ; 100; 0;35261  
 9; 4827.7; 27-NOV-2008 11:21:22; Bright; 62.5; 96; 68Del Leo ; 2.56; 9300;occ; 125; 0;35261  
 10; 6247.2; 27-NOV-2008 11:45:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35261  
 11; 6696.7; 27-NOV-2008 11:52:31; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;35261  
 12; 6913.9; 27-NOV-2008 11:56:08; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;35261  
 13; 7148.2; 27-NOV-2008 12:00:02; Dark ; 70.5; 23; 21Eps CMA ; 1.50; 26000;occ; 141; 0;35261  
 14; 7281.3; 27-NOV-2008 12:02:15; Dark ; 78.0; 179; 240mi2CMA ; 3.03; 24000;occ; 156; 0;35261  
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 3; 1954.6; 27-NOV-2008 12:14:04; Dark ; 65.5; 30; 46Eps Ori ; 1.69; 30000;occ; 131; 0;35262  
 4; 2125.0; 27-NOV-2008 12:16:55; Dark ; 65.0; 27; 24Gam Ori ; 1.64; 26000;occ; 130; 0;35262  
 5; 2253.6; 27-NOV-2008 12:19:04; Bright; 86.0; 14; 58Alp Ori ; 0.87; 3000;occ; 172; 0;35262  
 6; 2615.5; 27-NOV-2008 12:25:05; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35262  
 7; 2880.8; 27-NOV-2008 12:29:31; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;35262  
 8; 3004.9; 27-NOV-2008 12:31:35; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35262  
 9; 4198.4; 27-NOV-2008 12:51:28; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;35262  
 10; 4828.2; 27-NOV-2008 13:01:58; Bright; 64.0; 96; 68Del Leo ; 2.56; 9300;occ; 128; 0;35262  
 11; 6250.0; 27-NOV-2008 13:25:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35262  
 12; 6697.8; 27-NOV-2008 13:33:08; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;35262  
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 3; 1954.2; 27-NOV-2008 13:54:40; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0;35263  
 4; 2124.4; 27-NOV-2008 13:57:30; Dark ; 65.5; 27; 24Gam Ori ; 1.64; 26000;occ; 131; 0;35263  
 5; 2252.3; 27-NOV-2008 13:59:38; Bright; 85.5; 14; 58Alp Ori ; 0.87; 3000;occ; 171; 0;35263  
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 8; 3003.8; 27-NOV-2008 14:12:10; Bright; 53.5; 42; 34Bet Aur ; 1.90; 10200;occ; 107; 0;35263  
 9; 4198.4; 27-NOV-2008 14:32:04; Bright; 51.0; 174; 52Psi UMa ; 3.00; 4400;occ; 102; 0;35263  
 10; 4828.8; 27-NOV-2008 14:42:35; Bright; 66.0; 96; 68Del Leo ; 2.56; 9300;occ; 132; 0;35263  
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 12; 6698.8; 27-NOV-2008 15:13:45; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35263  
 13; 6915.9; 27-NOV-2008 15:17:22; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35263  
 14; 7150.0; 27-NOV-2008 15:21:16; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;35263  
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4; 2123.7; 27-NOV-2008 15:38:05; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;35264
5; 2251.1; 27-NOV-2008 15:40:13; Bright; 87.5; 14; 58Alp Ori ; 0.87; 3000;occ; 175; 0;35264
6; 2514.6; 27-NOV-2008 15:44:36; Bright; 60.5; 176; 23Zet Tau ; 3.02; 22000;occ; 121; 0;35264
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4; 1118.7; 28-NOV-2008 01:24:56; Dark ; 67.0; 23; 21Eps CMA ; 1.50; 26000;occ; 134; 0;35270
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9; 2119.7; 28-NOV-2008 01:41:37; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;35270
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5; 698.4; 29-NOV-2008 22:34:06; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;35297
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3;-2020.5; 30-NOV-2008 06:11:47; Bright; 36.5; 32; 77Eps UMA ; 1.76; 11000;occ; 73; 0;35301
4;-1846.4; 30-NOV-2008 06:14:41; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;35301
5;-1688.3; 30-NOV-2008 06:17:19; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;35301
6;-1118.2; 30-NOV-2008 06:26:49; Bright; 55.5; 62; 94Bet Leo ; 2.14; 9700;occ; 111; 0;35301
7;-919.8; 30-NOV-2008 06:30:08; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;35301
8; -581.4; 30-NOV-2008 06:35:46; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;35301
9; -486.0; 30-NOV-2008 06:37:21; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;35301
10; 401.2; 30-NOV-2008 06:52:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35302
11; 599.4; 30-NOV-2008 06:55:27; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35302
12; 703.8; 30-NOV-2008 06:57:11; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35302
13; 913.5; 30-NOV-2008 07:00:41; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35302
14; 1059.3; 30-NOV-2008 07:03:07; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;35302
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3; 2100.7; 30-NOV-2008 07:20:28; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;35302
4; 2234.8; 30-NOV-2008 07:22:42; Bright; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;35302
5; 2472.6; 30-NOV-2008 07:26:40; Bright; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;35302
6; 2618.6; 30-NOV-2008 07:29:06; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;35302
7; 2852.8; 30-NOV-2008 07:33:00; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;35302
8; 2964.4; 30-NOV-2008 07:34:52; Bright; 76.0; 42; 34Bet Aur ; 1.90; 10200;occ; 152; 0;35302
9; 3823.7; 30-NOV-2008 07:49:11; Bright; 45.0; 36; 50Alp UMA ; 1.80; 6300;occ; 90; 0;35302
10; 3920.0; 30-NOV-2008 07:50:47; Bright; 44.5; 82; 48Bet UMA ; 2.37; 10600;occ; 89; 0;35302
11; 4015.4; 30-NOV-2008 07:52:23; Bright; 38.5; 32; 77Eps UMA ; 1.76; 11000;occ; 77; 0;35302
12; 4189.4; 30-NOV-2008 07:55:17; Bright; 63.5; 174; 52Psi UMA ; 3.00; 4400;occ; 127; 0;35302
13; 4347.7; 30-NOV-2008 07:57:55; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;35302
14; 4918.3; 30-NOV-2008 08:07:26; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;35302
15; 5116.6; 30-NOV-2008 08:10:44; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;35302
16; 5455.4; 30-NOV-2008 08:16:23; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;35302
17; 5550.8; 30-NOV-2008 08:17:58; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;35302
18; 6438.0; 30-NOV-2008 08:32:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35302
19; 6636.3; 30-NOV-2008 08:36:04; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;35302
20; 6740.8; 30-NOV-2008 08:37:48; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35302
21; 6950.3; 30-NOV-2008 08:41:18; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35302
22; 7096.1; 30-NOV-2008 08:43:44; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;35302
23; 7179.1; 30-NOV-2008 08:45:07; Dark ; 66.0; 23; 21Eps CMA ; 1.50; 26000;occ; 132; 0;35302
24; 7571.1; 30-NOV-2008 08:51:39; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;35302
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2; 1936.0; 30-NOV-2008 08:58:19; Dark ; 62.5; 30; 46Eps Ori ; 1.69; 30000;occ; 125; 0;35303
3; 2100.0; 30-NOV-2008 09:01:03; Dark ; 61.0; 27; 24Gam Ori ; 1.64; 26000;occ; 122; 0;35303
4; 2234.5; 30-NOV-2008 09:03:18; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;35303
5; 2472.2; 30-NOV-2008 09:07:16; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;35303
6; 2618.1; 30-NOV-2008 09:09:41; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;35303
7; 2852.2; 30-NOV-2008 09:13:36; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;35303

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9; 3823.3; 30-NOV-2008 09:29:47; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;35303  
10; 3919.8; 30-NOV-2008 09:31:23; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;35303  
11; 4015.3; 30-NOV-2008 09:32:59; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;35303  
12; 4189.1; 30-NOV-2008 09:35:52; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;35303  
13; 4347.9; 30-NOV-2008 09:38:31; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;35303  
14; 4919.1; 30-NOV-2008 09:48:02; Bright; 57.0; 62; 94Bet Leo ; 2.14; 9700;occ; 114; 0;35303  
15; 5117.3; 30-NOV-2008 09:51:21; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;35303  
16; 5456.0; 30-NOV-2008 09:56:59; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;35303  
17; 5551.6; 30-NOV-2008 09:58:35; Dark ; 46.5; 171; 2Eps Crv ; 3.00; 4250;occ; 93; 0;35303  
18; 6438.8; 30-NOV-2008 10:13:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35303  
19; 6637.1; 30-NOV-2008 10:16:40; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35303  
20; 6741.8; 30-NOV-2008 10:18:25; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35303  
21; 6951.2; 30-NOV-2008 10:21:55; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35303  
22; 7096.9; 30-NOV-2008 10:24:20; Dark ; 42.0; 88; 31Eta CMa ; 2.45; 20000;occ; 84; 0;35303  
23; 7179.8; 30-NOV-2008 10:25:43; Dark ; 64.5; 23; 21Eps CMa ; 1.50; 26000;occ; 129; 0;35303  
24; 7571.2; 30-NOV-2008 10:32:15; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;35303  
25; 7788.8; 30-NOV-2008 10:35:52; Dark ; 3.0; 7; 19Bet Ori ; 0.10; 14000;occ; 6; 0;35303

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3; 2099.5; 30-NOV-2008 10:41:39; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35304  
4; 2234.1; 30-NOV-2008 10:43:53; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;35304  
5; 2472.1; 30-NOV-2008 10:47:51; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;35304  
6; 2617.9; 30-NOV-2008 10:50:17; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;35304  
7; 2851.5; 30-NOV-2008 10:54:11; Bright; 46.5; 6; 13Alp Aur ; 0.08; 3400;occ; 93; 0;35304  
8; 2962.5; 30-NOV-2008 10:56:02; Bright; 50.0; 42; 34Bet Aur ; 1.90; 10200;occ; 100; 0;35304  
9; 3822.9; 30-NOV-2008 11:10:22; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;35304  
10; 3919.4; 30-NOV-2008 11:11:59; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;35304  
11; 4015.2; 30-NOV-2008 11:13:34; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;35304  
12; 4188.8; 30-NOV-2008 11:16:28; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;35304  
13; 4347.9; 30-NOV-2008 11:19:07; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;35304  
14; 4919.7; 30-NOV-2008 11:28:39; Bright; 58.0; 62; 94Bet Leo ; 2.14; 9700;occ; 116; 0;35304  
15; 5117.9; 30-NOV-2008 11:31:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;35304  
16; 5456.8; 30-NOV-2008 11:37:36; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;35304  
17; 5552.4; 30-NOV-2008 11:39:12; Dark ; 45.0; 171; 2Eps Crv ; 3.00; 4250;occ; 90; 0;35304  
18; 6439.6; 30-NOV-2008 11:53:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35304  
19; 6638.0; 30-NOV-2008 11:57:17; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35304  
20; 6742.9; 30-NOV-2008 11:59:02; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;35304  
21; 6952.0; 30-NOV-2008 12:02:31; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;35304  
22; 7097.7; 30-NOV-2008 12:04:57; Dark ; 42.0; 88; 31Eta CMa ; 2.45; 20000;occ; 84; 0;35304  
23; 7180.5; 30-NOV-2008 12:06:20; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;35304

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2; 1752.9; 30-NOV-2008 12:16:28; Dark ; 68.0; 7; 19Bet Ori ; 0.10; 14000;occ; 136; 0;35305  
3; 1935.2; 30-NOV-2008 12:19:30; Dark ; 57.5; 30; 46Eps Ori ; 1.69; 30000;occ; 115; 0;35305  
4; 2099.0; 30-NOV-2008 12:22:14; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35305  
5; 2233.8; 30-NOV-2008 12:24:29; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35305  
6; 2471.8; 30-NOV-2008 12:28:27; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;35305  
7; 2617.7; 30-NOV-2008 12:30:53; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;35305  
8; 2850.8; 30-NOV-2008 12:34:46; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35305  
9; 2961.5; 30-NOV-2008 12:36:37; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35305  
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12; 4015.1; 30-NOV-2008 12:54:10; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;35305  
13; 4188.7; 30-NOV-2008 12:57:04; Bright; 51.5; 174; 52Psi UMa ; 3.00; 4400;occ; 103; 0;35305  
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19; 6440.5; 30-NOV-2008 13:34:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35305  
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22; 6952.9; 30-NOV-2008 13:43:08; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35305  
23; 7098.8; 30-NOV-2008 13:45:34; Dark ; 44.0; 88; 31Eta CMa ; 2.45; 20000;occ; 88; 0;35305  
24; 7181.3; 30-NOV-2008 13:46:56; Dark ; 66.5; 23; 21Eps CMa ; 1.50; 26000;occ; 133; 0;35305  
25; 7571.6; 30-NOV-2008 13:53:27; Dark ; 8.5; 101; 11Alp Lep ; 2.58; 7000;occ; 17; 0;35305



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 3; 1934.9; 30-NOV-2008 14:00:06; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;35306  
 4; 2098.4; 30-NOV-2008 14:02:49; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35306  
 5; 2233.5; 30-NOV-2008 14:05:04; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;35306  
 6; 2471.6; 30-NOV-2008 14:09:03; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;35306  
 7; 2617.5; 30-NOV-2008 14:11:28; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;35306  
 8; 2850.2; 30-NOV-2008 14:15:21; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;35306  
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 11; 3918.8; 30-NOV-2008 14:33:10; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;35306  
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 15; 4921.2; 30-NOV-2008 14:49:52; Bright; 55.0; 62; 94Bet Leo ; 2.14; 9700;occ; 110; 0;35306  
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 17; 5458.4; 30-NOV-2008 14:58:49; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;35306  
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 19; 6441.4; 30-NOV-2008 15:15:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35306  
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 23; 7099.7; 30-NOV-2008 15:26:11; Dark ; 44.0; 88; 31Eta CMA ; 2.45; 20000;occ; 88; 0;35306  
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 4; 2097.8; 30-NOV-2008 15:43:25; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;35307  
 5; 2233.1; 30-NOV-2008 15:45:40; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;35307  
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 6; 2097.3; 30-NOV-2008 17:24:00; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;35308  
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 8; 2471.1; 30-NOV-2008 17:30:14; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;35308  
 9; 2616.7; 30-NOV-2008 17:32:40; Bright; 51.0; 149; 45Eps Per ; 2.89; 30000;occ; 102; 0;35308  
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23; 6747.2; 30-NOV-2008 18:41:30; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;35308
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