

# GOMOS Daily Report 05-JAN-2011

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	08JAN2011 07:06:30
Data source version	GOMOS/5.01
Start time of products	05JAN2011 00:10:43
Stop time of products	05JAN2011 23:59:40
Store outputs in DB	Yes
Nb of level 1b prods	369
Nb of prods with errors	4

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

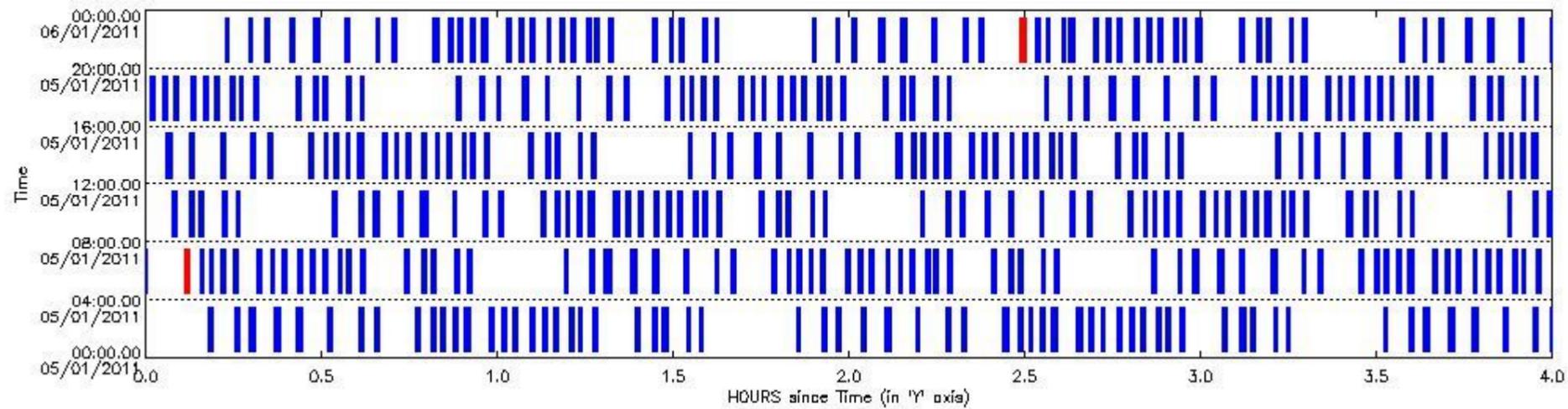
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
05-JAN-2011 04:06:28	5TheCen	54	46268
05-JAN-2011 22:29:11	5TheCen	54	46279

### 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_1PNPDE20110105_001043_000000403098_00131_46266_1679.N1	05-JAN-2011 00:10:43	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	46266	No
2	GOM_TRA_1PNPDE20110105_001508_000000473098_00131_46266_1680.N1	05-JAN-2011 00:15:08	Bright	47.000	55	79Zet UMa	2.0600	10200.	94	46266	No
3	GOM_TRA_1PNPDE20110105_001731_000000693098_00131_46266_1681.N1	05-JAN-2011 00:17:31	Bright	69.000	39	85Eta UMa	1.8540	24000.	138	46266	No
4	GOM_TRA_1PNPDE20110105_002150_000000653098_00131_46266_1682.N1	05-JAN-2011 00:21:50	Bright	65.000	180	27Gam Boo	3.0400	8000.0	130	46266	No
5	GOM_TRA_1PNPDE20110105_002542_000000663098_00131_46266_1683.N1	05-JAN-2011 00:25:42	Bright	66.000	83		2.3780	11000.	132	46266	No
6	GOM_TRA_1PNPDE20110105_003104_000000383098_00131_46266_1684.N1	05-JAN-2011 00:31:04	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	46266	No
7	GOM_TRA_1PNPDE20110105_003616_000000513098_00131_46266_1685.N1	05-JAN-2011 00:36:16	Bright	51.000	104	27Bet Lib	2.6140	13100.	102	46266	No
8	GOM_TRA_1PNPDE20110105_003903_000000483098_00131_46266_1682.N1	05-JAN-2011 00:39:03	Tw_i_and_stray	48.000	122	9Alp2Lib	2.7470	9700.0	96	46266	No
9	GOM_TRA_1PNPDE20110105_004602_000000513098_00131_46266_1683.N1	05-JAN-2011 00:46:02	Dark	51.000	54	5The Cen	2.0550	4500.0	102	46266	No







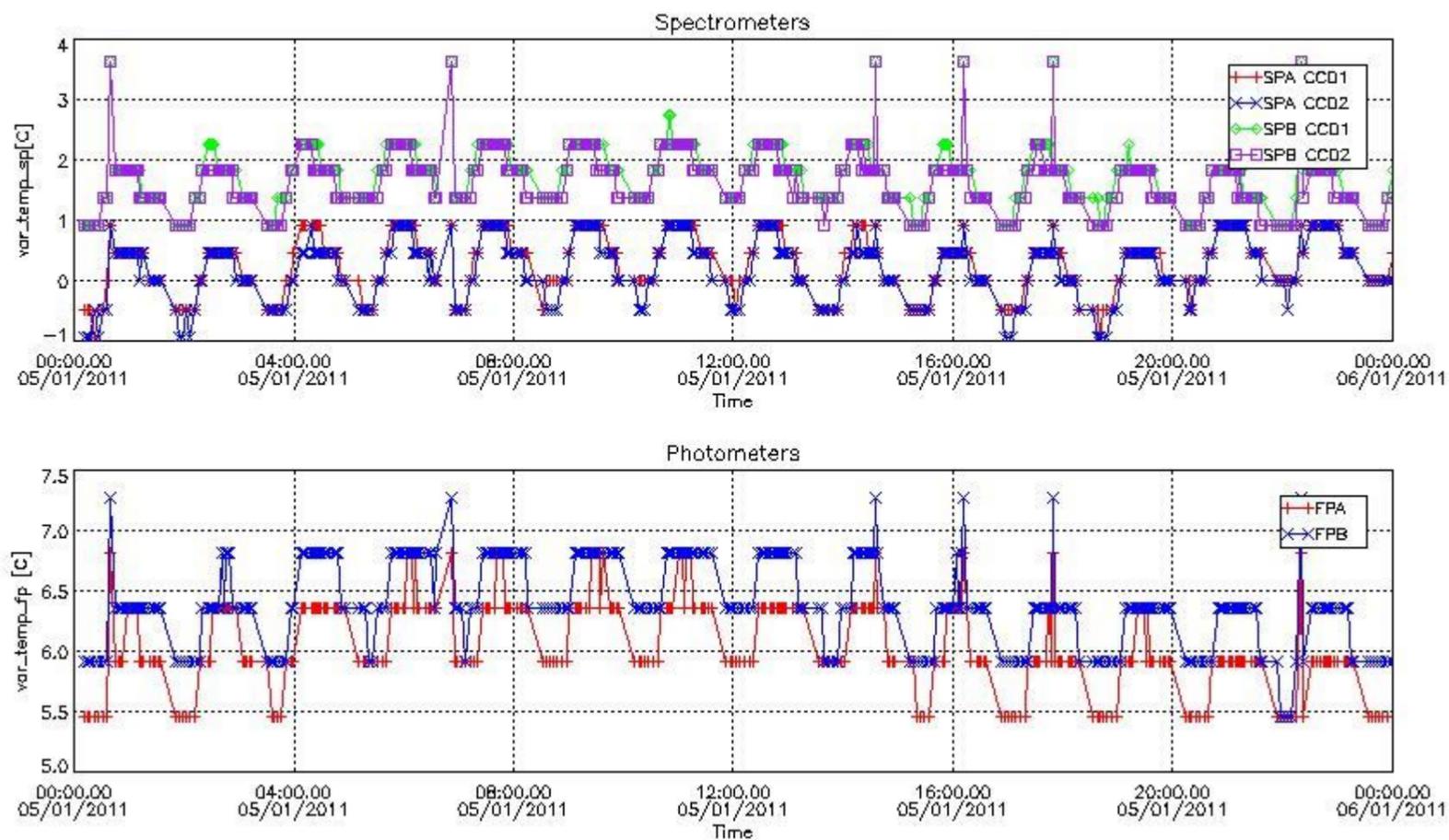






364	GOM_TRA_1PNPDE20110105_233758_000000383098_00145_46280_1892.N1	05-JAN-2011 23:37:58	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	46280	No
365	GOM_TRA_1PNPDE20110105_234044_000000503098_00145_46280_1893.N1	05-JAN-2011 23:40:44	Bright	49.500	39	85Eta UMa	1.8540	24000.	99	46280	No
366	GOM_TRA_1PNPDE20110105_234506_000000663098_00145_46280_1894.N1	05-JAN-2011 23:45:06	Bright	66.000	180	27Gam Boo	3.0400	8000.0	132	46280	No
367	GOM_TRA_1PNPDE20110105_234901_000000663098_00145_46280_1895.N1	05-JAN-2011 23:49:01	Bright	66.000	83		2.3780	11000.	132	46280	No
368	GOM_TRA_1PNPDE20110105_235425_000000373098_00145_46280_1896.N1	05-JAN-2011 23:54:25	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	46280	No
369	GOM_TRA_1PNPDE20110105_235940_000000443098_00145_46280_1897.N1	05-JAN-2011 23:59:40	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	46280	No

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



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

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

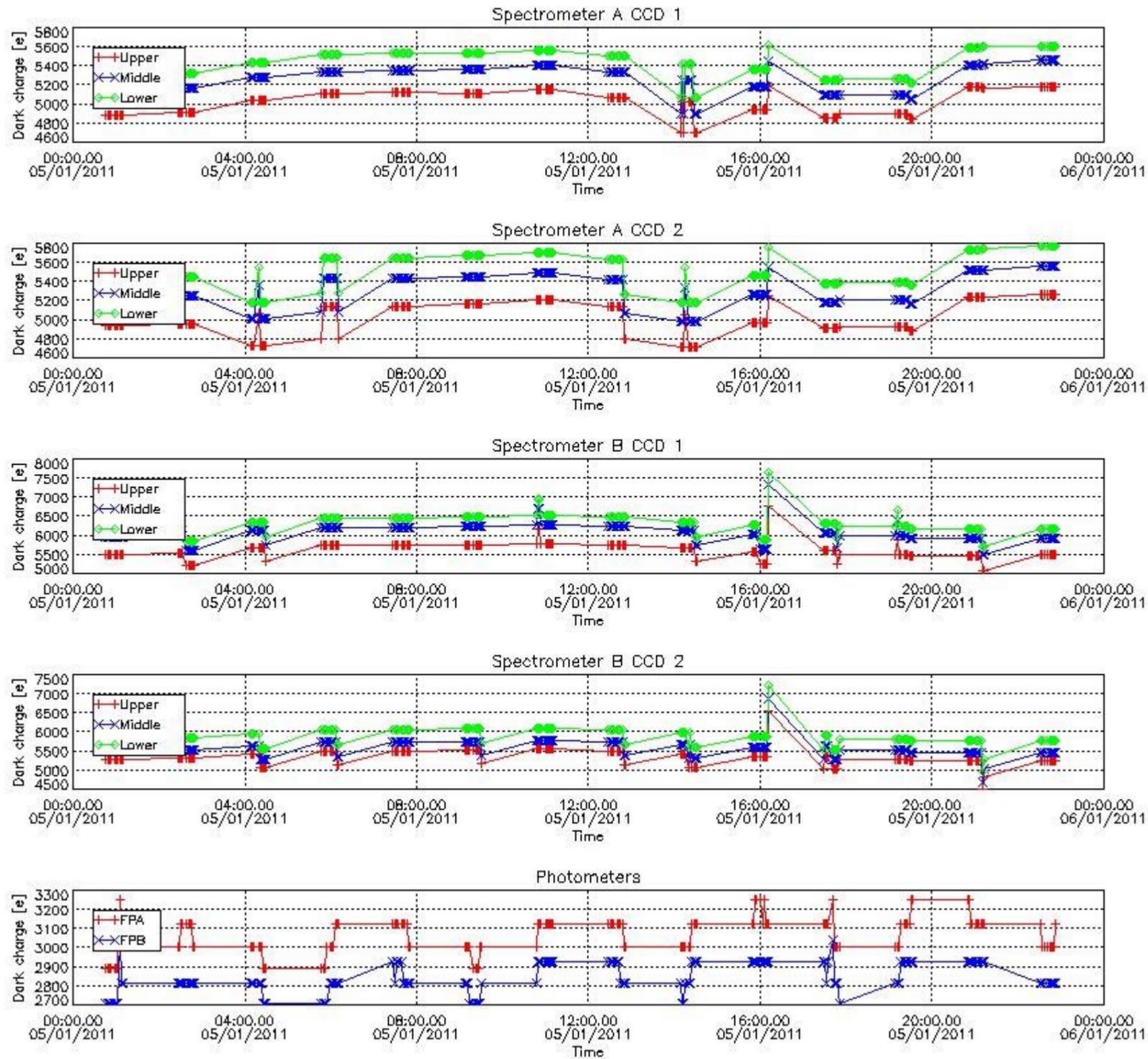
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20110105_211032_000000483098_00144_46279_1849.N1	DC map used
GOM_TRA_1PNPDE20110105_211227_000000473098_00144_46279_1850.N1	DC map used
GOM_TRA_1PNPDE20110105_211509_000000463098_00144_46279_1851.N1	DC map used
GOM_TRA_1PNPDE20110105_211638_000000423098_00144_46279_1852.N1	DC map used

GOM_TRA_1PNPDE20110105_211859_000000513098_00144_46279_1853.N1	DC map used
GOM_TRA_1PNPDE20110105_212618_000000483098_00144_46279_1854.N1	DC map used
GOM_TRA_1PNPDE20110105_212915_000000473098_00144_46279_1855.N1	DC map used
GOM_TRA_1PNPDE20110105_213055_000000483098_00144_46279_1856.N1	DC map used
GOM_TRA_1PNPDE20110105_213457_000000553098_00144_46279_1857.N1	DC map used
GOM_TRA_1PNPDE20110105_213710_000000383098_00144_46279_1858.N1	DC map used
GOM_TRA_1PNPDE20110105_215344_000000353098_00144_46279_1859.N1	DC map used
GOM_TRA_1PNPDE20110105_215744_000000353098_00144_46279_1860.N1	DC map used
GOM_TRA_1PNPDE20110105_220030_000000483098_00144_46279_1861.N1	DC map used
GOM_TRA_1PNPDE20110105_220452_000000663098_00144_46279_1862.N1	DC map used
GOM_TRA_1PNPDE20110105_220847_000000663098_00144_46279_1863.N1	DC map used
GOM_TRA_1PNPDE20110105_221410_000000473098_00144_46279_1864.N1	DC map used

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



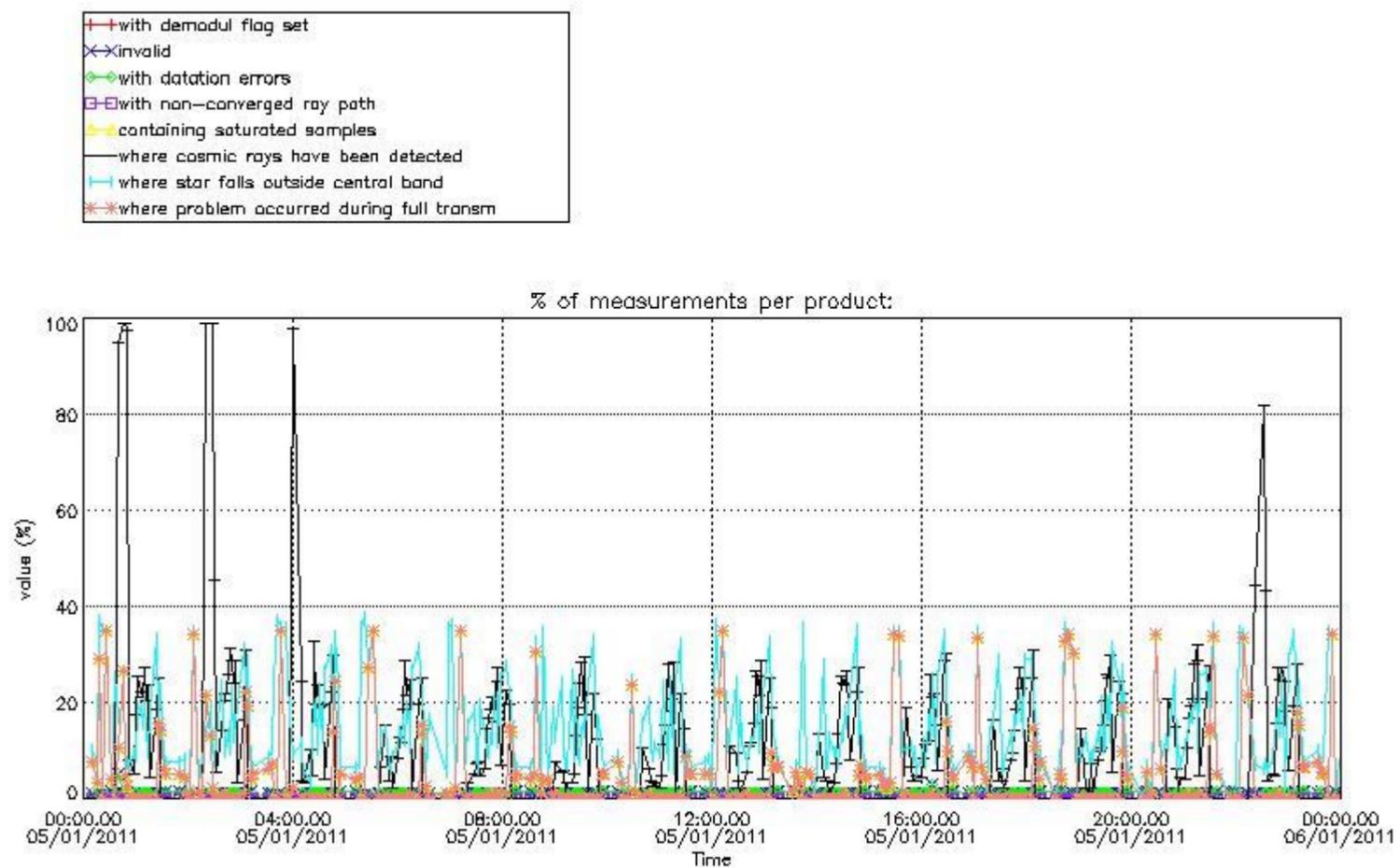
## 5. Demodulation flag and quality information monitoring

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

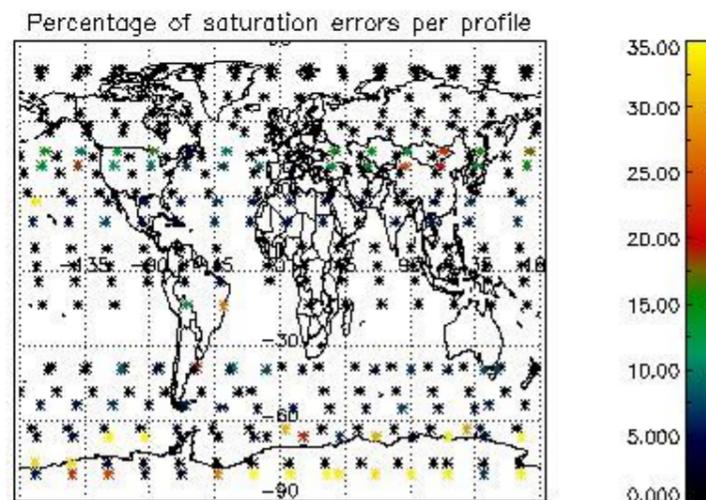
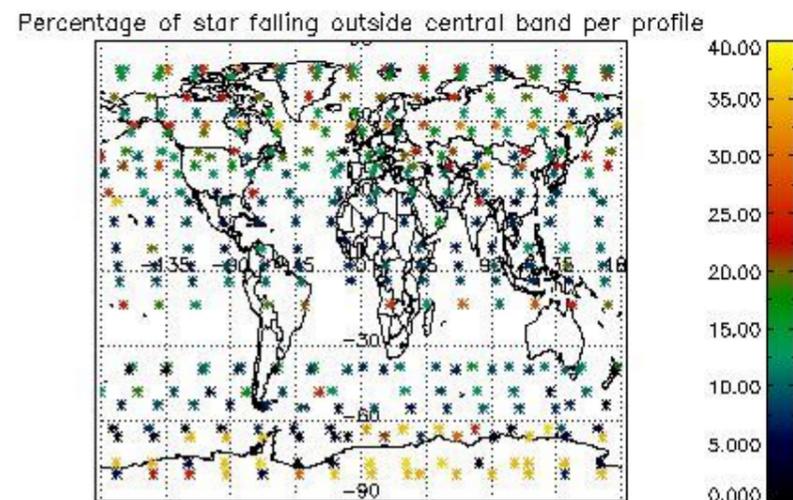
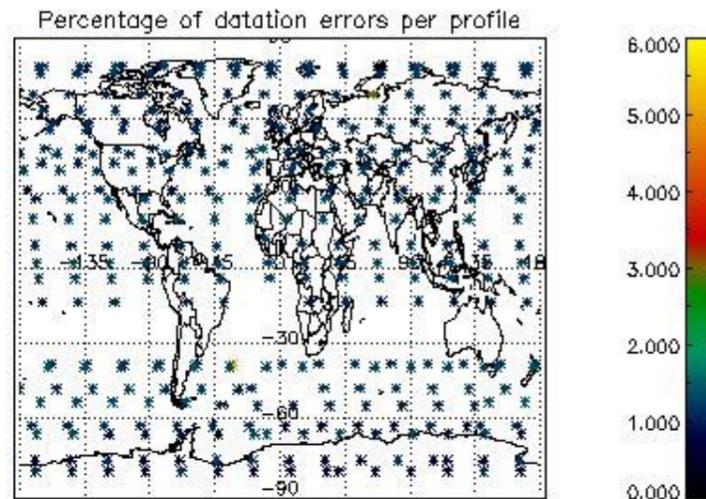
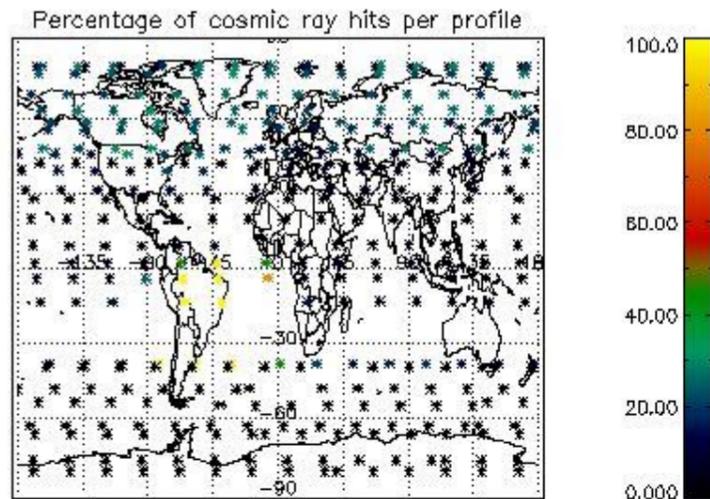
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	56.9863 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



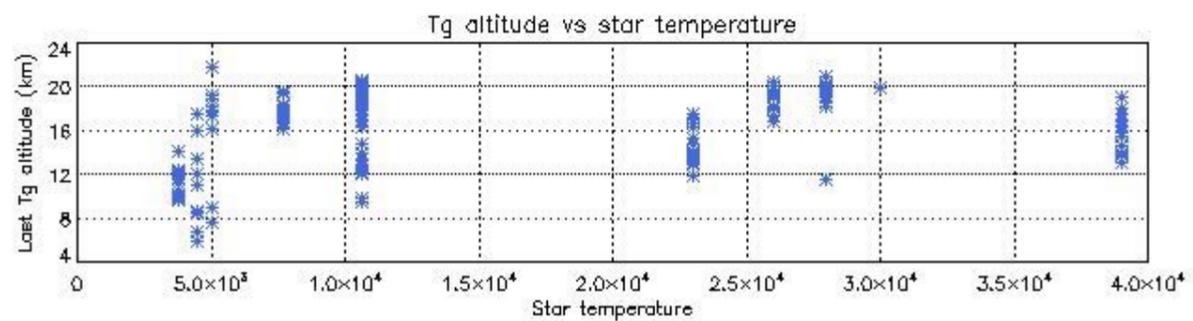
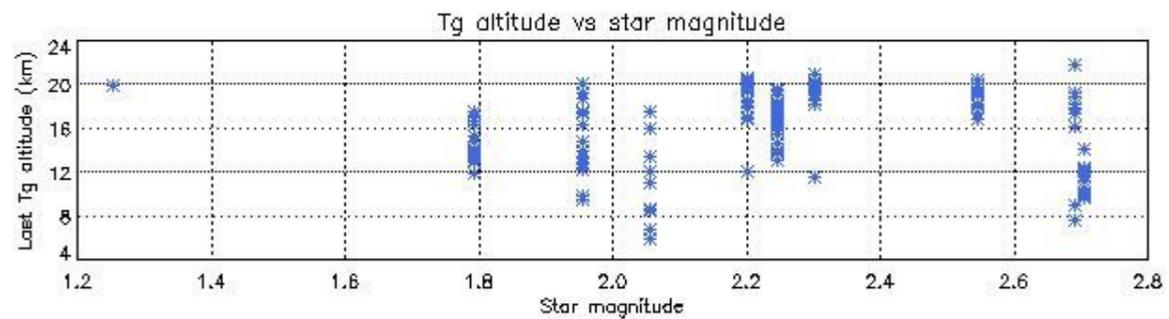
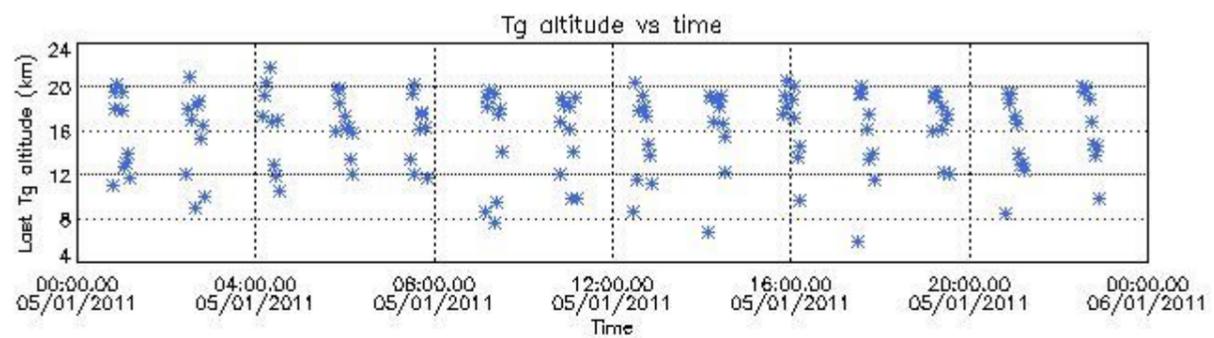
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.919	15.693	NaN
St. deviation:	3.5675	7.2329	NaN
Maximum:	21.768	27.196	NaN
Minimum:	5.8794	3.6332	NaN
Number of data:	137.00	145.00	NaN

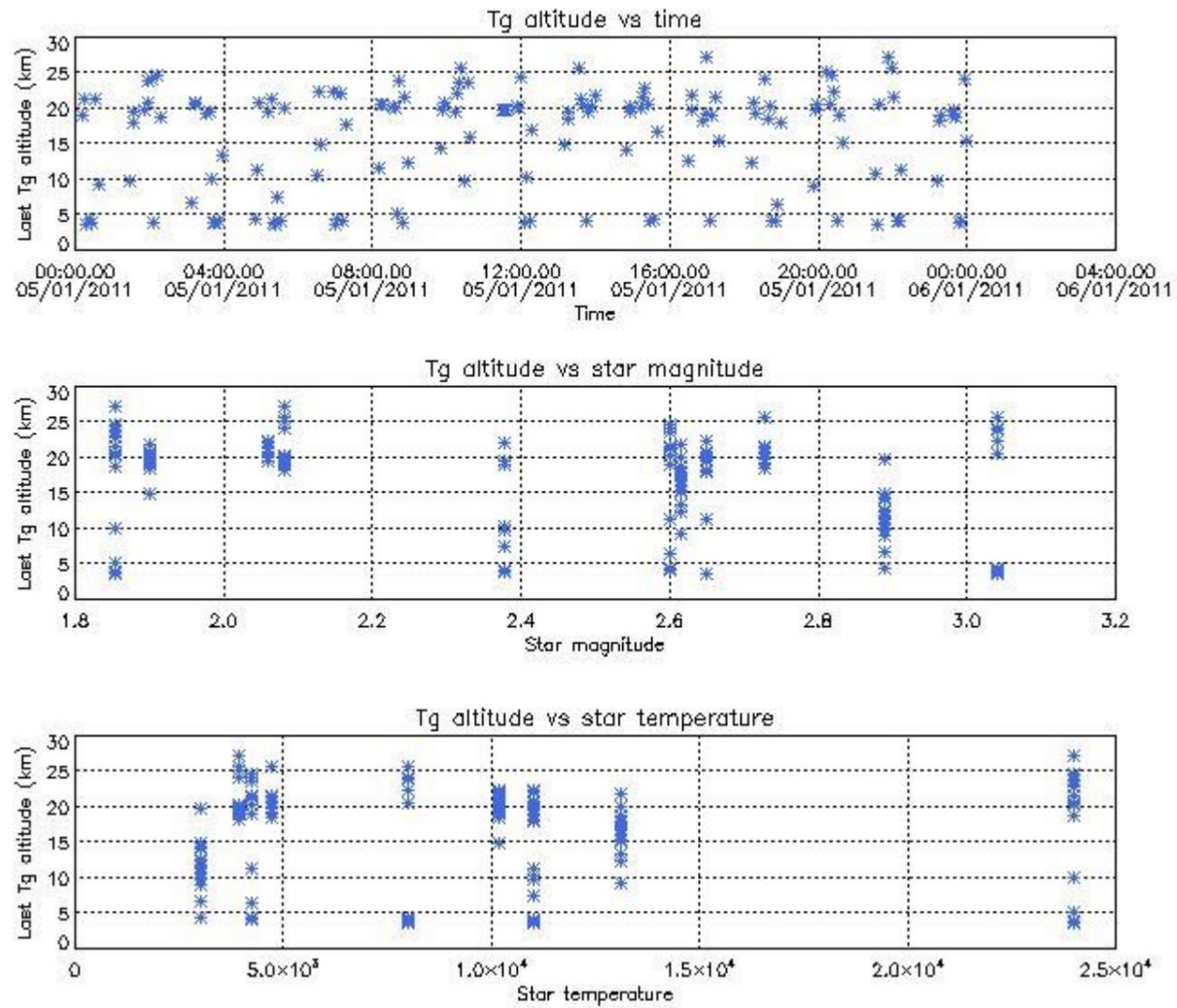
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

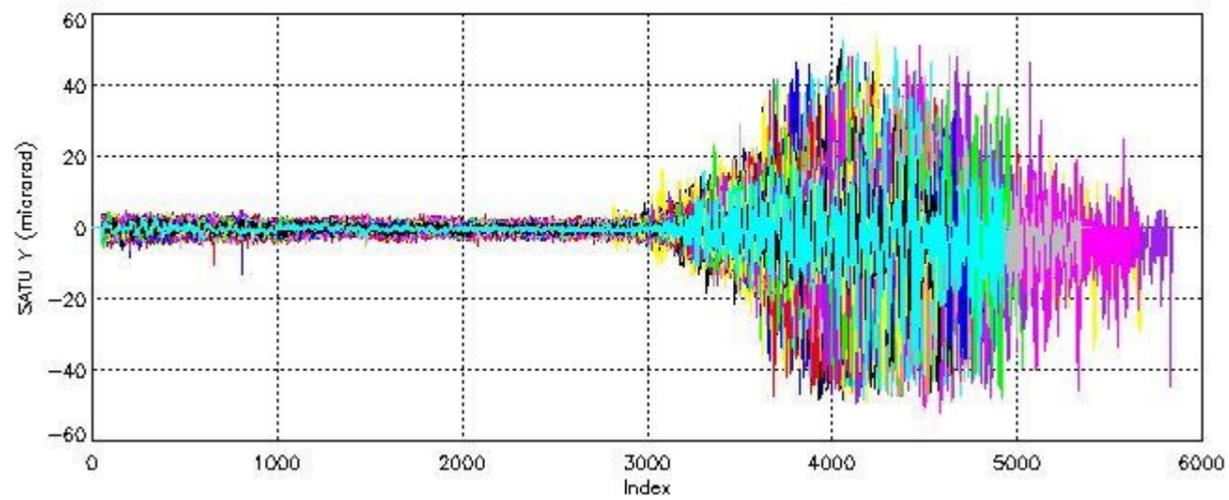
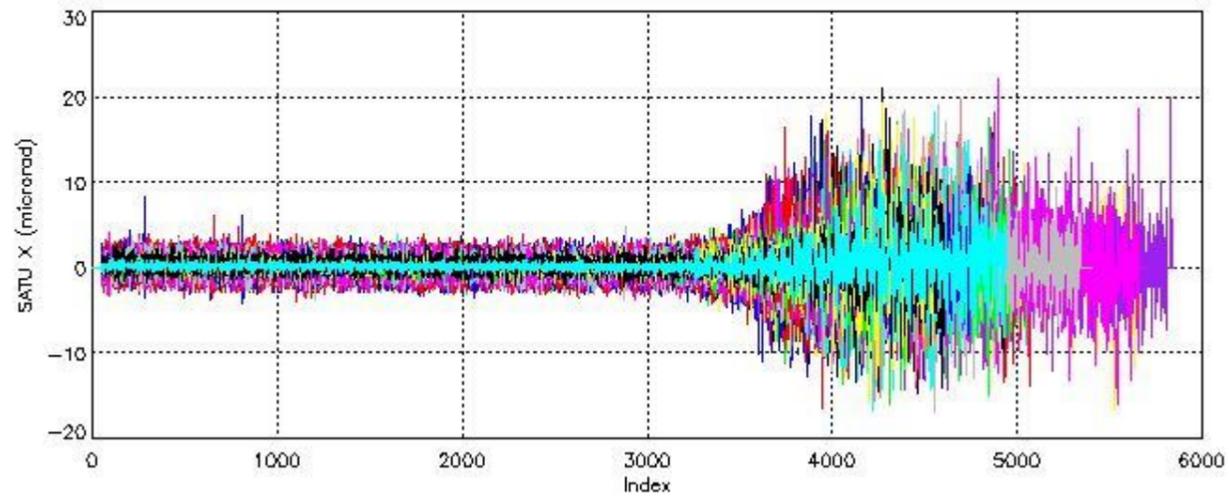


## 7. Star Acquisition and Tracking Unit (SATU)

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.

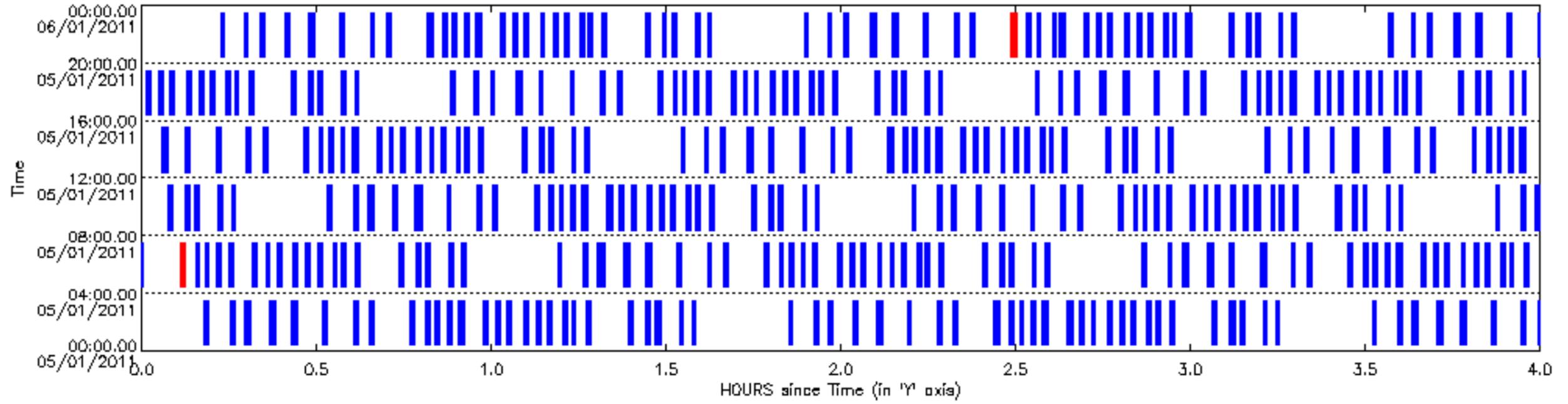
Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument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

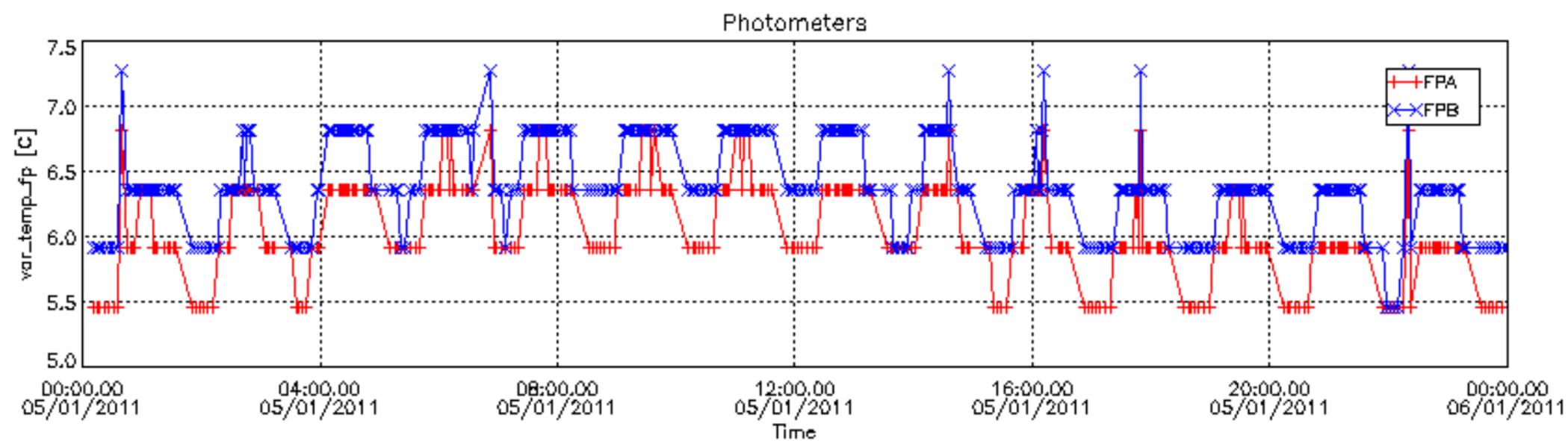
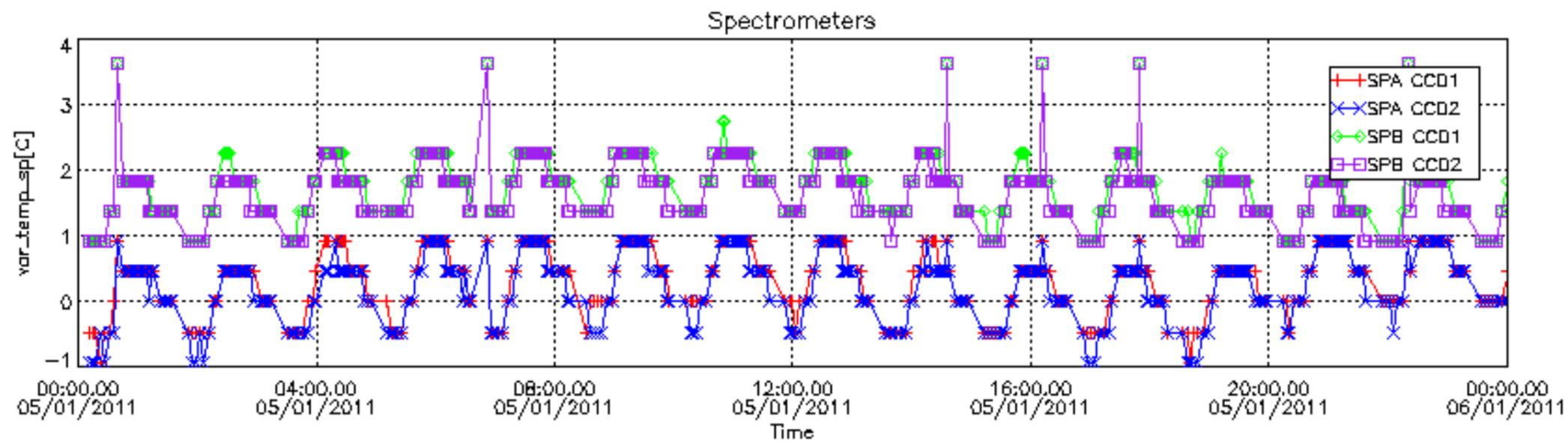
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.22205	-0.38275	0.16956	-0.35797
St. deviation:	0.62119	1.0631	0.79669	1.0933
Maximum:	8.2000	4.6000	6.3000	6.6000
Minimum:	-4.2000	-13.400	-5.5000	-7.8000

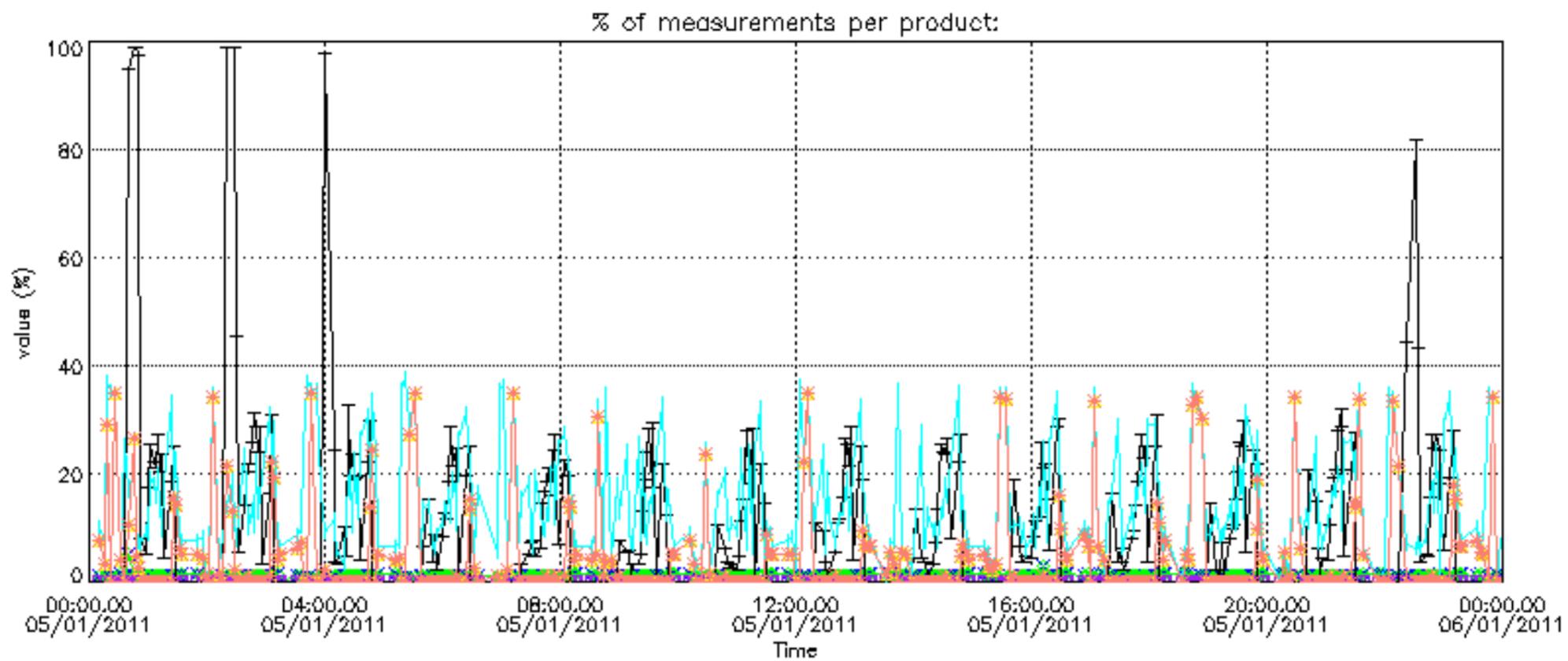
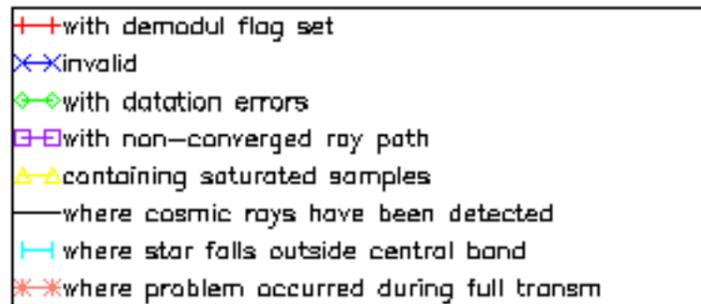


ORBIT_DATA_FILE	DOR_NAV_OPNPK20110105_093910_000054193098_00137_46272_3458.N1	151	05-JAN-2011 09:44:40
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110105_111448_000057383098_00138_46273_3459.N1	176	05-JAN-2011 11:17:34
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110105_125545_000054193098_00139_46274_3460.N1	202	05-JAN-2011 12:57:48
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110105_143123_000057383098_00140_46275_3461.N1	227	05-JAN-2011 14:35:41
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110105_160701_000057383098_00141_46276_3462.N1	251	05-JAN-2011 16:11:44
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110105_174758_000054193098_00142_46277_3463.N1	276	05-JAN-2011 17:50:03
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110105_192336_000060573098_00143_46278_3464.N1	301	05-JAN-2011 19:28:08
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110104_222454_20110104_194910_20110114_202248	328	05-JAN-2011 21:10:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110105_221856_000057383098_00144_46279_2272.N1	344	05-JAN-2011 22:19:25

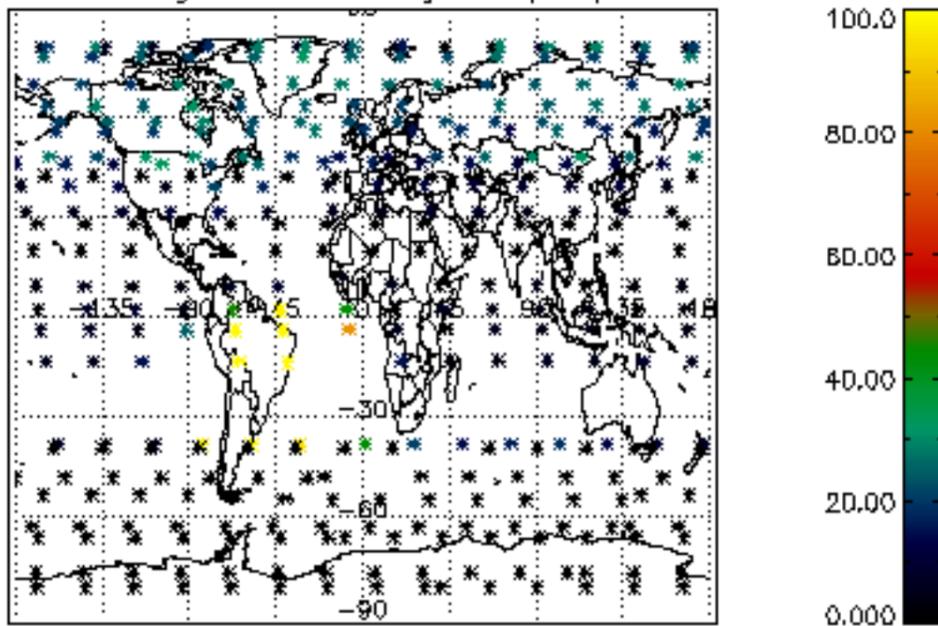




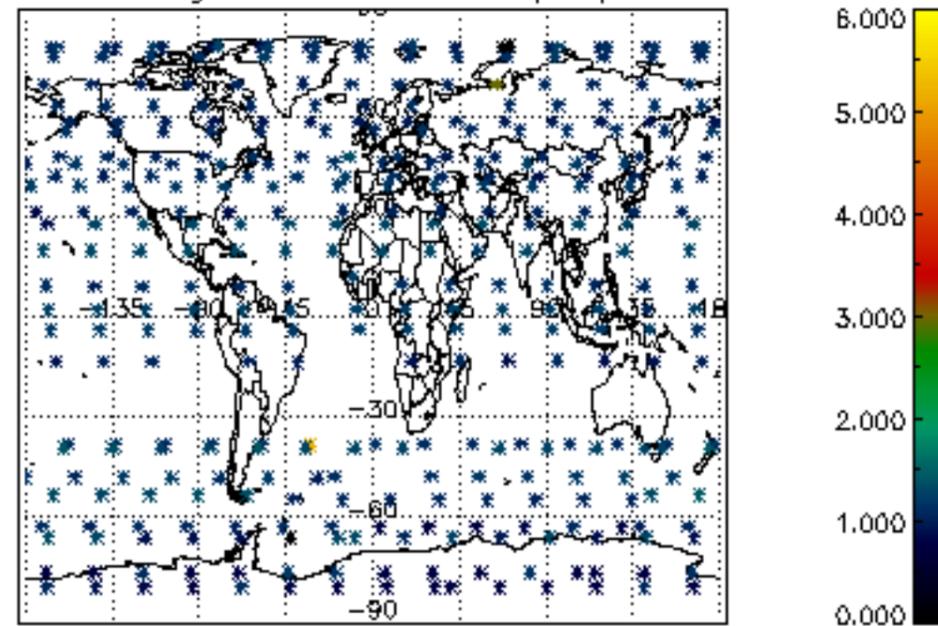




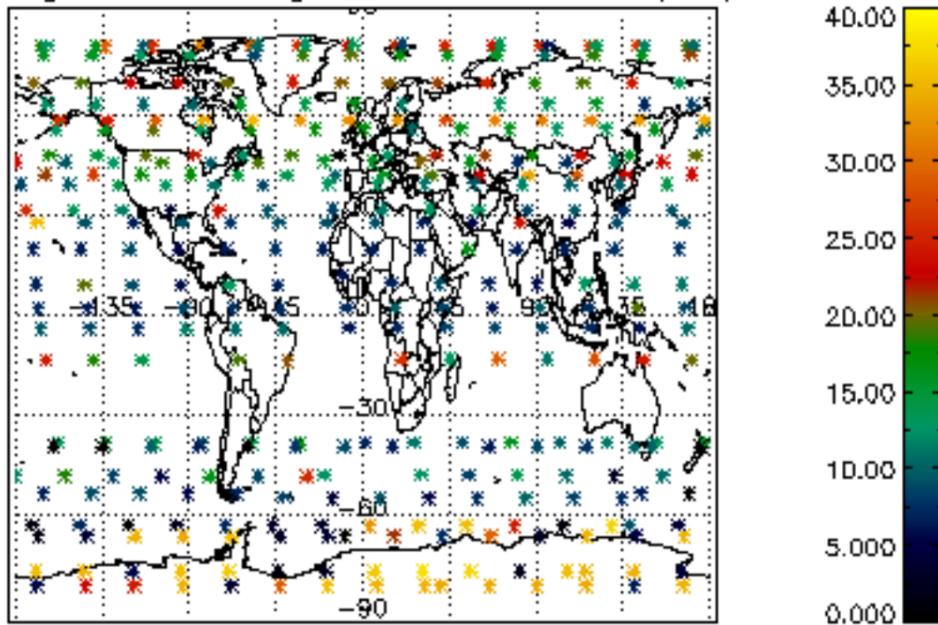
Percentage of cosmic ray hits per profile



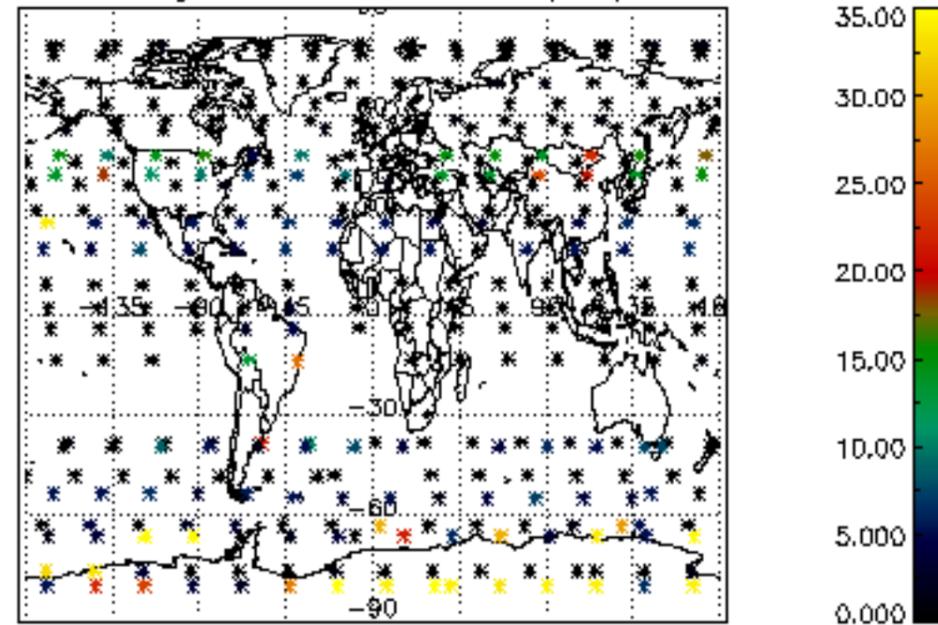
Percentage of datation errors per profile



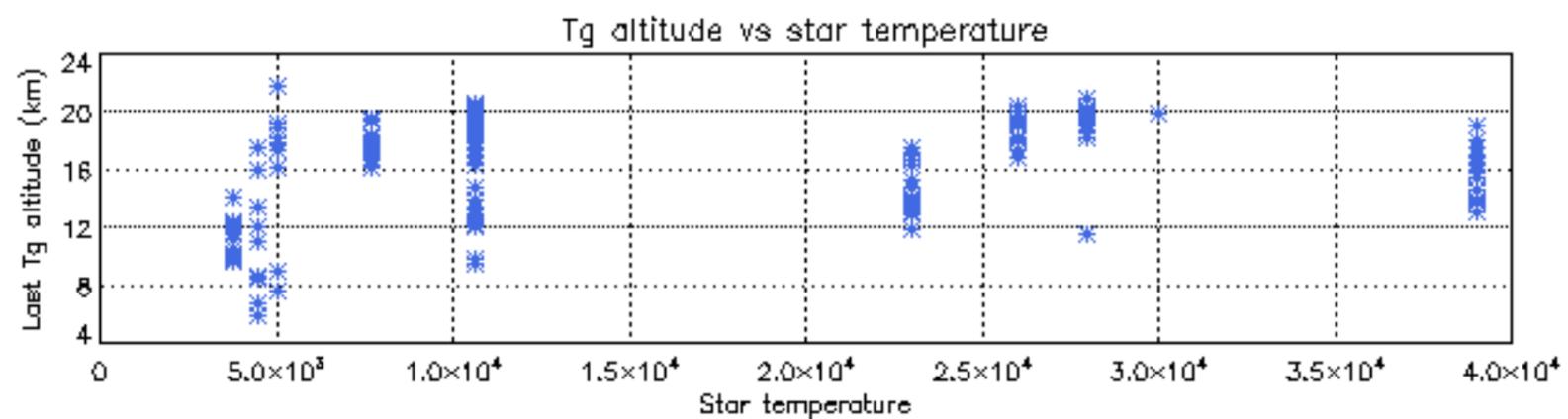
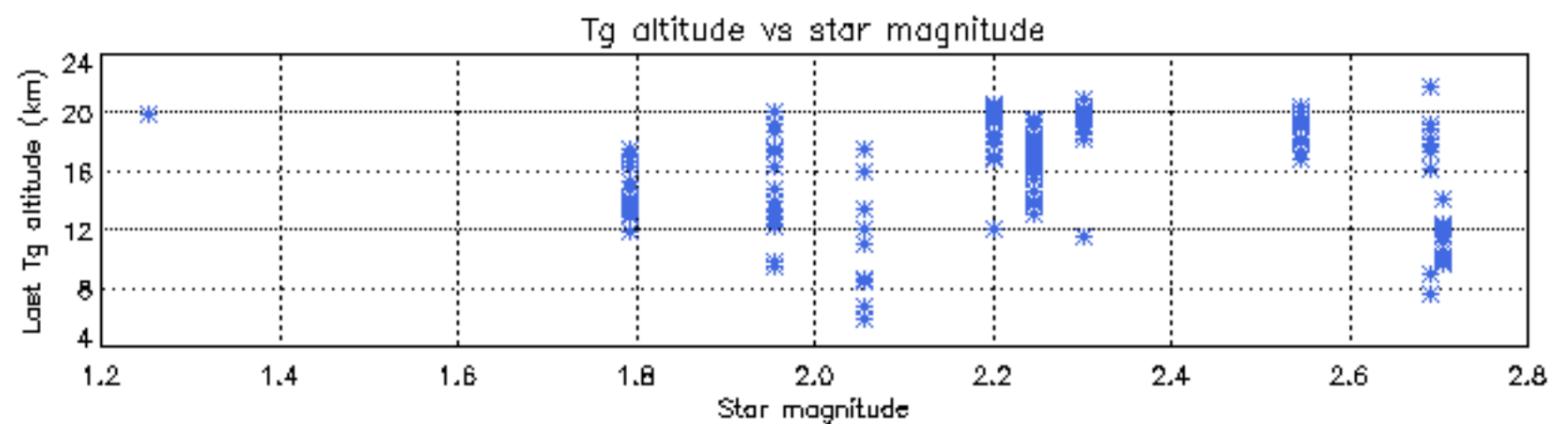
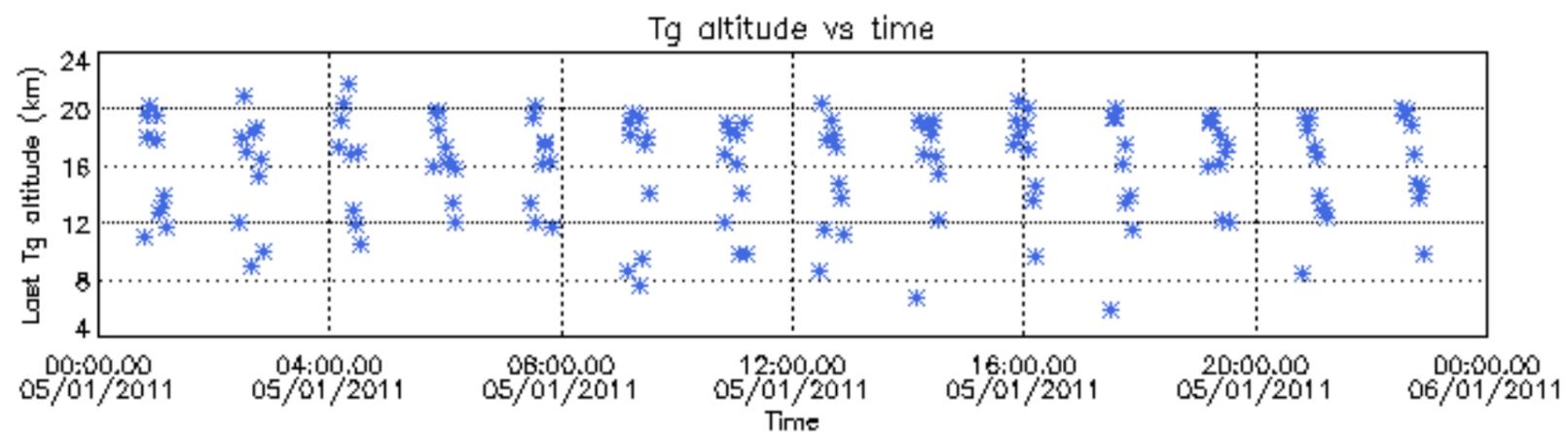
Percentage of star falling outside central band per profile



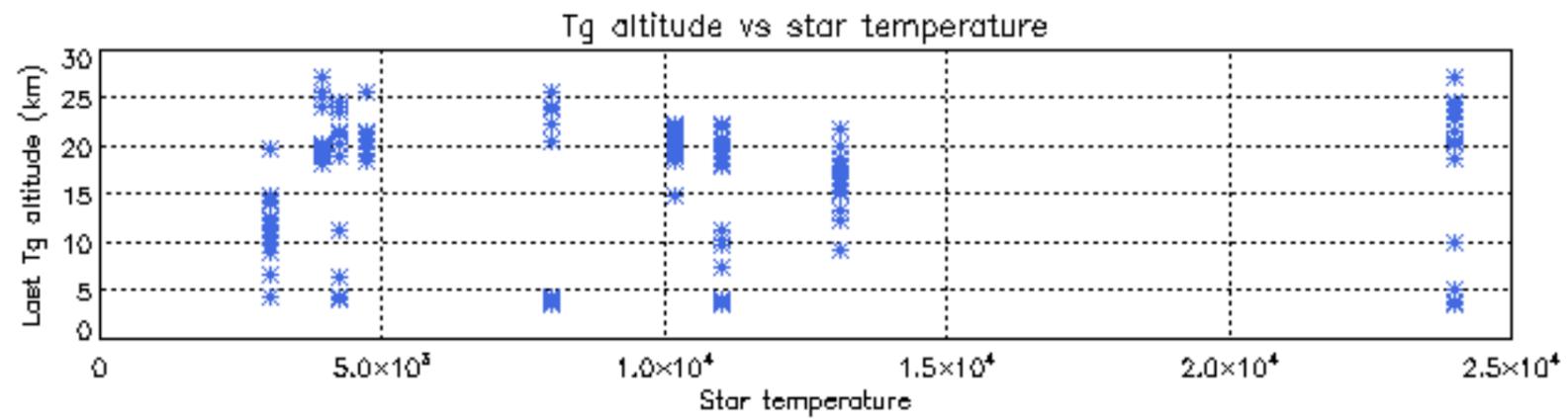
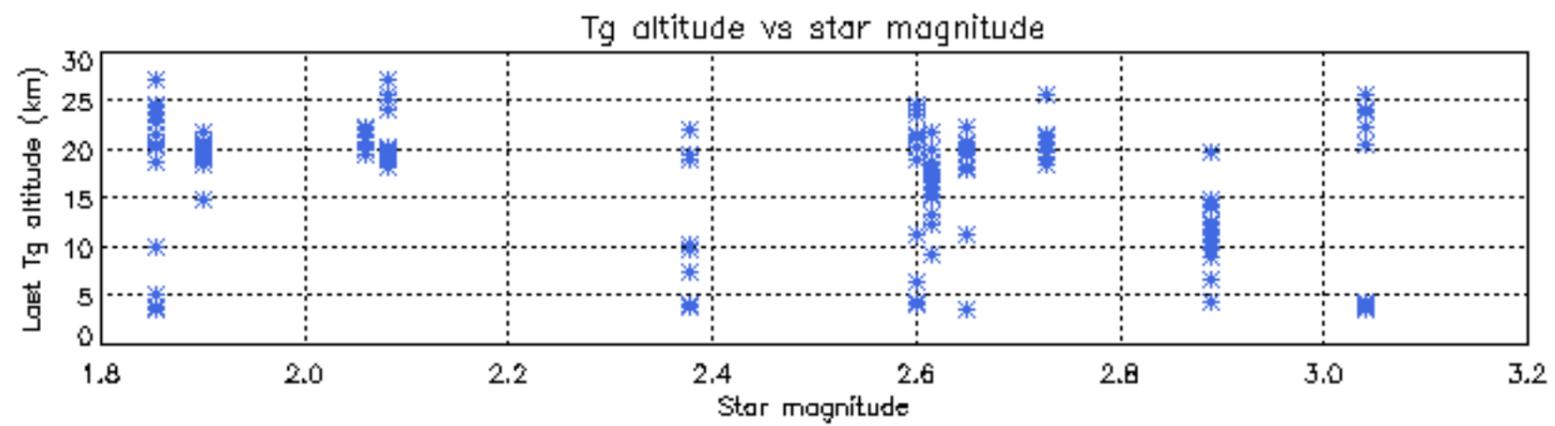
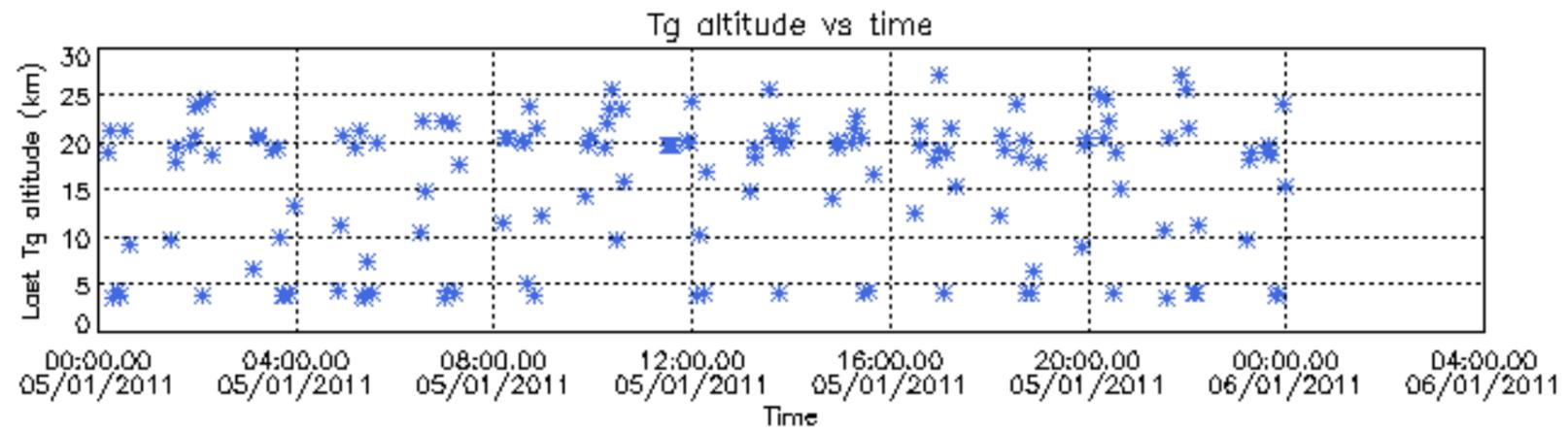
Percentage of saturation errors per profile

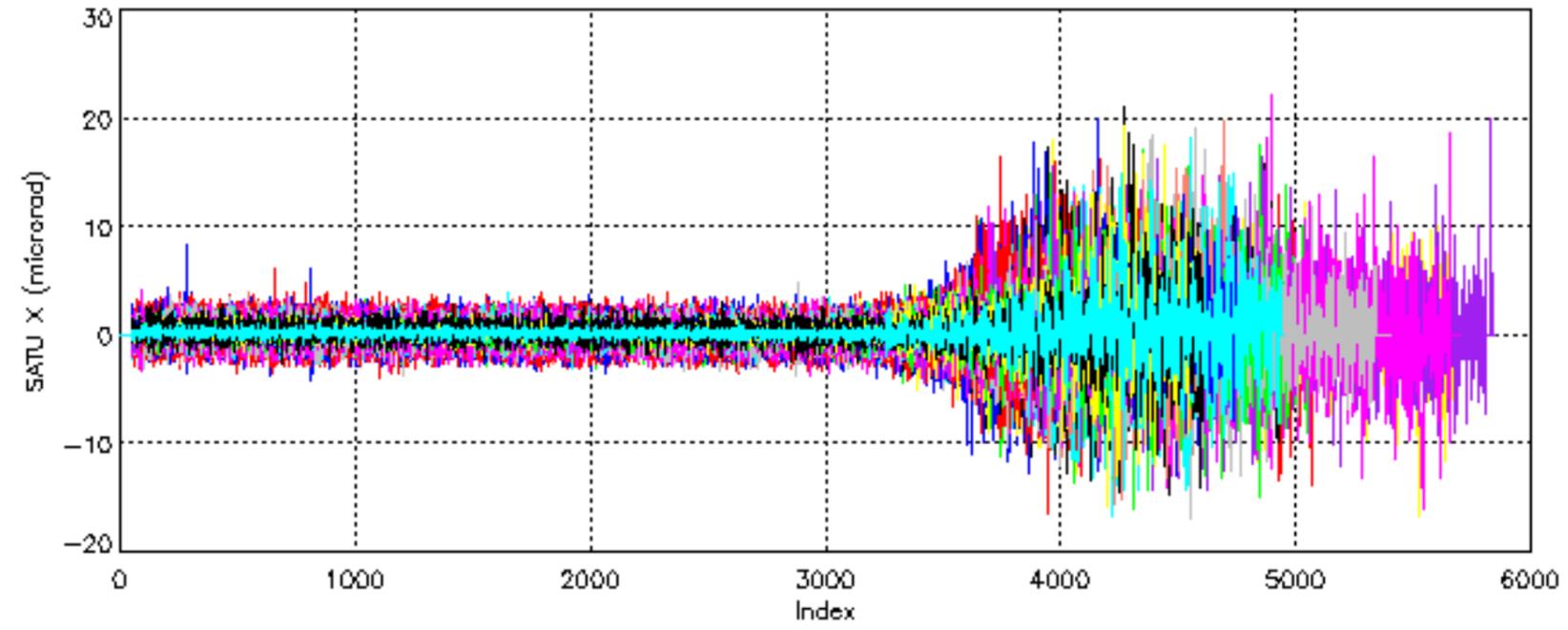


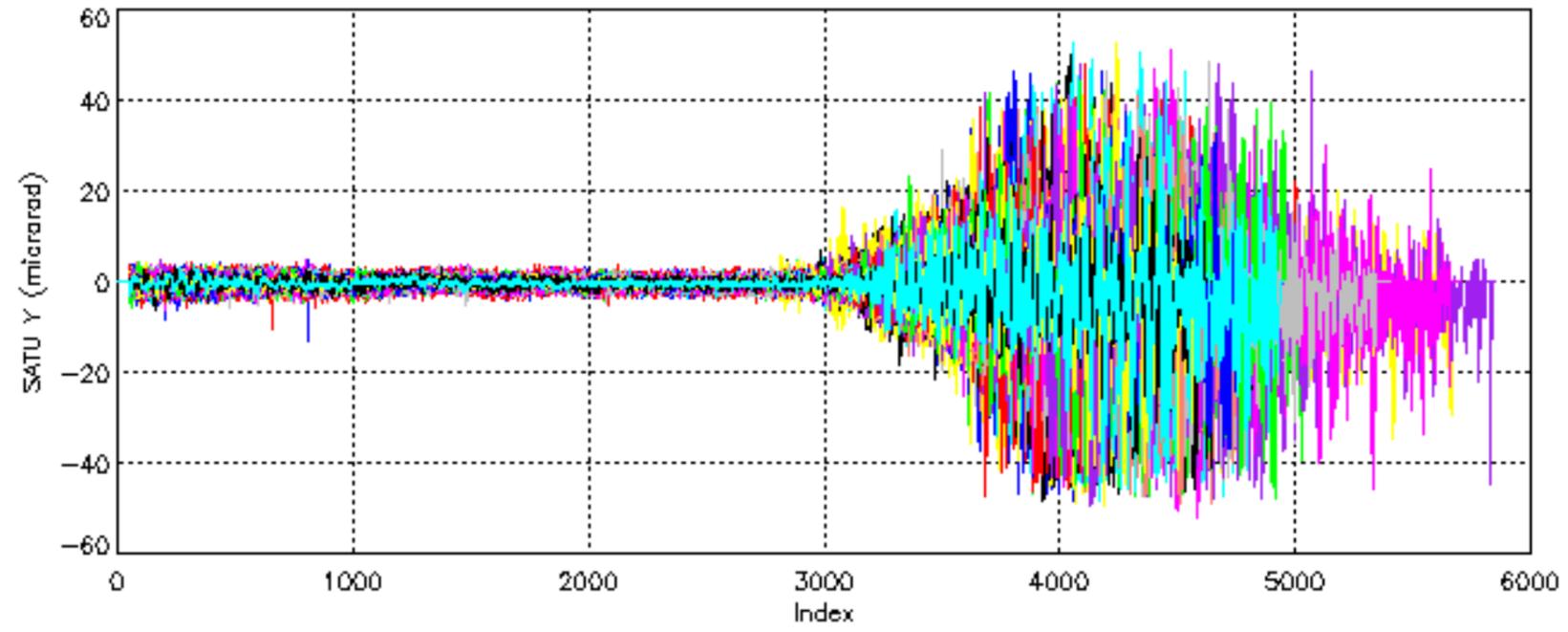
Tangent altitude at which the star is lost

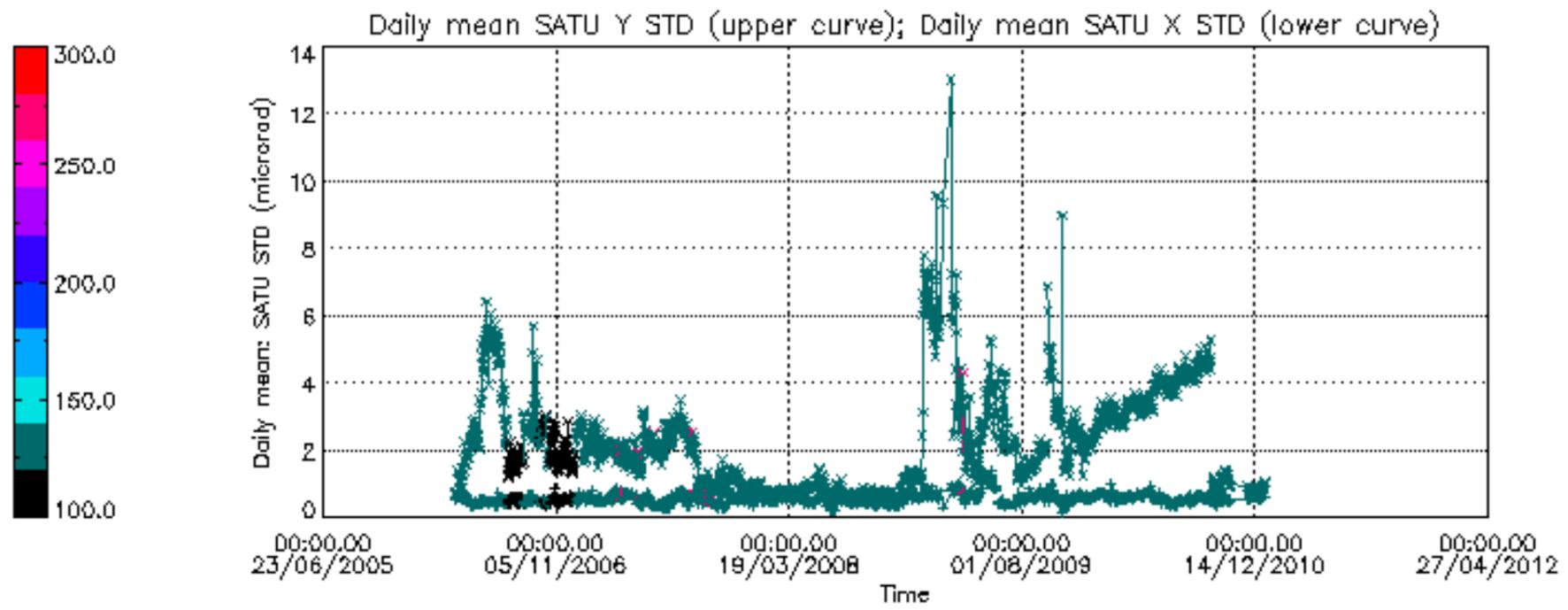


Tangent altitude at which the star is lost

















































































































































5; 3421.0; 16-JAN-2011 13:25:25; Bright; 26.0; 36; 50Alp UMa ; 1.80; 6300;occ; 52; 0;46432  
 6; 3641.2; 16-JAN-2011 13:29:05; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46432  
 7; 3901.6; 16-JAN-2011 13:33:26; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;46432  
 8; 4434.6; 16-JAN-2011 13:42:19; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;46432  
 9; 4568.6; 16-JAN-2011 13:44:33; Bright; 65.0; 67; 5Alp CrB ; 2.22; 11000;occ; 130; 0;46432  
 10; 4956.0; 16-JAN-2011 13:51:00; Bright; 63.0; 102; 24Alp Ser ; 2.60; 4250;occ; 126; 0;46432  
 11; 5082.4; 16-JAN-2011 13:53:07; Bright; 57.0; 120; 1Del Oph ; 2.73; 3200;occ; 114; 0;46432  
 12; 5308.6; 16-JAN-2011 13:56:53; Dark ; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;46432  
 13; 5418.7; 16-JAN-2011 13:58:43; Dark ; 44.5; 80; 7Del Sco ; 2.32; 30000;occ; 89; 0;46432  
 14; 5507.6; 16-JAN-2011 14:00:12; Dark ; 51.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 103; 0;46432  
 15; 5746.2; 16-JAN-2011 14:04:10; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;46432  
 16; 5853.3; 16-JAN-2011 14:05:57; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;46432  
 17; 5937.9; 16-JAN-2011 14:07:22; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;46432  
 18; 6067.6; 16-JAN-2011 14:09:32; Dark ; 44.0; 95; Zet Cen ; 2.55; 26000;occ; 88; 0;46433  
 19; 6358.0; 16-JAN-2011 14:14:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;46433  
 20; 6434.3; 16-JAN-2011 14:15:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46433  
 21; 6671.0; 16-JAN-2011 14:19:35; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46433  
 22; 6858.1; 16-JAN-2011 14:22:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;46433  
 23; 7019.6; 16-JAN-2011 14:25:24; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;46433  
 24; 7147.2; 16-JAN-2011 14:27:31; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;46433  
 25; 7371.8; 16-JAN-2011 14:31:16; Dark ; 43.5; 88; 31Eta CMa ; 2.45; 20000;occ; 87; 0;46433  
 26; 7481.9; 16-JAN-2011 14:33:06; Dark ; 32.5; 179; 240mi2CMA ; 3.03; 24000;occ; 65; 0;46433

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13; 4569.4; 16-JAN-2011 20:25:30; Bright; 43.5; 67; 5Alp CrB ; 2.22; 11000;occ; 87; 0;46436  
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5; 145.1; 17-JAN-2011 01:52:41; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46440  
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9; 846.6; 17-JAN-2011 02:04:23; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;46440  
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 26; 3413.6; 17-JAN-2011 06:07:38; Bright; 30.0; 36; 50Alp UMa ; 1.80; 6300;occ; 60; 0;46442  
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6; 3633.6; 19-JAN-2011 09:58:33; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46473  
7; 3898.7; 19-JAN-2011 10:02:58; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46473  
8; 4440.5; 19-JAN-2011 10:11:59; Bright; 56.0; 133; 40Zet Her ; 2.81; 6000;occ; 112; 0;46473  
9; 4578.3; 19-JAN-2011 10:14:17; Bright; 67.0; 67; 5Alp CrB ; 2.22; 11000;occ; 134; 0;46473  
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13; 5441.9; 19-JAN-2011 10:28:41; Dark ; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;46473  
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16; 5881.4; 19-JAN-2011 10:36:00; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;46473  
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4; 2425.9; 19-JAN-2011 11:18:39; Bright; 45.5; 17; 78Bet Gem ; 1.16; 4500;occ; 91; 0;46474  
5; 3390.7; 19-JAN-2011 11:34:44; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;46474  
6; 3633.4; 19-JAN-2011 11:38:46; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46474  
7; 3898.5; 19-JAN-2011 11:43:11; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;46474  
8; 4440.6; 19-JAN-2011 11:52:14; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;46474  
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11; 5102.2; 19-JAN-2011 12:03:15; Bright; 59.0; 120; 1Del Oph ; 2.73; 3200;occ; 118; 0;46474  
12; 5442.5; 19-JAN-2011 12:08:55; Dark ; 48.5; 80; 7Del Sco ; 2.32; 30000;occ; 97; 0;46474  
13; 5554.0; 19-JAN-2011 12:10:47; Dark ; 53.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 106; 0;46474  
14; 5770.1; 19-JAN-2011 12:14:23; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;46474

15;	5882.2;	19-JAN-2011 12:16:15;	Dark ;	42.5;	109;	Bet Lup ;	2.68;	26000;occ;	85;	0;46474
16;	5982.6;	19-JAN-2011 12:17:56;	Dark ;	55.0;	54;	5The Cen ;	2.06;	4500;occ;	110;	0;46474
17;	6184.5;	19-JAN-2011 12:21:17;	Dark ;	43.0;	77;	Eps Cen ;	2.30;	28000;occ;	86;	0;46475
18;	6381.2;	19-JAN-2011 12:24:34;	Dark ;	42.5;	12;	Alp1Cru ;	0.77;	30000;occ;	85;	0;46475
19;	6472.7;	19-JAN-2011 12:26:06;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;46475
20;	6702.5;	19-JAN-2011 12:29:55;	Dark ;	47.5;	113;	Mu Vel ;	2.69;	5000;occ;	95;	0;46475
21;	6813.1;	19-JAN-2011 12:31:46;	Dark ;	40.5;	91;	Kap Vel ;	2.49;	26000;occ;	81;	0;46475
22;	7011.1;	19-JAN-2011 12:35:04;	Dark ;	53.5;	65;	Lam Vel ;	2.20;	4400;occ;	107;	0;46475
23;	7161.2;	19-JAN-2011 12:37:34;	Dark ;	44.0;	70;	Zet Pup ;	2.25;	39000;occ;	88;	0;46475
24;	7381.2;	19-JAN-2011 12:41:14;	Dark ;	42.0;	88;	31Eta CMA ;	2.45;	20000;occ;	84;	0;46475
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1;	1990.4;	19-JAN-2011 12:51:37;	Dark ;	50.0;	8;	10Alp CMI ;	0.40;	6500;occ;	100;	0;46475
2;	2173.3;	19-JAN-2011 12:54:40;	Dark ;	47.0;	44;	24Gam Gem ;	1.93;	11000;occ;	94;	0;46475
3;	2324.5;	19-JAN-2011 12:57:11;	Bright;	39.0;	170;	27Eps Gem ;	3.00;	9700;occ;	78;	0;46475
4;	2425.3;	19-JAN-2011 12:58:52;	Bright;	46.0;	17;	78Bet Gem ;	1.16;	4500;occ;	92;	0;46475
5;	3390.1;	19-JAN-2011 13:14:57;	Bright;	46.0;	36;	50Alp UMA ;	1.80;	6300;occ;	92;	0;46475
6;	3633.3;	19-JAN-2011 13:19:00;	Bright;	39.0;	60;	7Bet UMi ;	2.08;	3950;occ;	78;	0;46475
7;	3898.6;	19-JAN-2011 13:23:25;	Bright;	39.0;	119;	14Eta Dra ;	2.73;	4700;occ;	78;	0;46475
8;	4440.7;	19-JAN-2011 13:32:28;	Bright;	56.0;	133;	40Zet Her ;	2.81;	6000;occ;	112;	0;46475
9;	4578.7;	19-JAN-2011 13:34:46;	Bright;	67.0;	67;	5Alp CrB ;	2.22;	11000;occ;	134;	0;46475
10;	4979.3;	19-JAN-2011 13:41:26;	Bright;	47.0;	102;	24Alp Ser ;	2.60;	4250;occ;	94;	0;46475
11;	5102.8;	19-JAN-2011 13:43:30;	Bright;	46.5;	120;	1Del Oph ;	2.73;	3200;occ;	93;	0;46475
12;	5443.2;	19-JAN-2011 13:49:10;	Dark ;	45.5;	80;	7Del Sco ;	2.32;	30000;occ;	91;	0;46475
13;	5555.2;	19-JAN-2011 13:51:02;	Dark ;	58.0;	122;	9Alp2Lib ;	2.75;	9700;occ;	116;	0;46475
14;	5770.7;	19-JAN-2011 13:54:38;	Dark ;	39.5;	131;	Gam Lup ;	2.80;	26000;occ;	79;	0;46475
15;	5882.9;	19-JAN-2011 13:56:30;	Dark ;	42.0;	109;	Bet Lup ;	2.68;	26000;occ;	84;	0;46475
16;	5983.7;	19-JAN-2011 13:58:11;	Dark ;	52.0;	54;	5The Cen ;	2.06;	4500;occ;	104;	0;46475
17;	6185.3;	19-JAN-2011 14:01:32;	Dark ;	40.5;	77;	Eps Cen ;	2.30;	28000;occ;	81;	0;46476
18;	6381.7;	19-JAN-2011 14:04:49;	Dark ;	43.5;	12;	Alp1Cru ;	0.77;	30000;occ;	87;	0;46476
19;	6473.7;	19-JAN-2011 14:06:21;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;46476
20;	6703.3;	19-JAN-2011 14:10:10;	Dark ;	48.0;	113;	Mu Vel ;	2.69;	5000;occ;	96;	0;46476
21;	6813.7;	19-JAN-2011 14:12:01;	Dark ;	40.0;	91;	Kap Vel ;	2.49;	26000;occ;	80;	0;46476
22;	7011.8;	19-JAN-2011 14:15:19;	Dark ;	51.5;	65;	Lam Vel ;	2.20;	4400;occ;	103;	0;46476
23;	7161.7;	19-JAN-2011 14:17:49;	Dark ;	44.5;	70;	Zet Pup ;	2.25;	39000;occ;	89;	0;46476
24;	7381.6;	19-JAN-2011 14:21:29;	Dark ;	42.0;	88;	31Eta CMA ;	2.45;	20000;occ;	84;	0;46476
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2;	1990.3;	19-JAN-2011 14:31:51;	Dark ;	56.5;	8;	10Alp CMI ;	0.40;	6500;occ;	113;	0;46476
3;	2173.2;	19-JAN-2011 14:34:54;	Dark ;	51.0;	44;	24Gam Gem ;	1.93;	11000;occ;	102;	0;46476
4;	2324.6;	19-JAN-2011 14:37:25;	Bright;	40.5;	170;	27Eps Gem ;	3.00;	9700;occ;	81;	0;46476
5;	2425.1;	19-JAN-2011 14:39:06;	Bright;	44.5;	17;	78Bet Gem ;	1.16;	4500;occ;	89;	0;46476
6;	3389.4;	19-JAN-2011 14:55:10;	Bright;	46.5;	36;	50Alp UMA ;	1.80;	6300;occ;	93;	0;46476
7;	3633.1;	19-JAN-2011 14:59:14;	Bright;	39.5;	60;	7Bet UMi ;	2.08;	3950;occ;	79;	0;46476
8;	3898.5;	19-JAN-2011 15:03:39;	Bright;	37.5;	119;	14Eta Dra ;	2.73;	4700;occ;	75;	0;46476
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11;	4979.9;	19-JAN-2011 15:21:41;	Bright;	63.5;	102;	24Alp Ser ;	2.60;	4250;occ;	127;	0;46476
12;	5103.5;	19-JAN-2011 15:23:44;	Bright;	59.0;	120;	1Del Oph ;	2.73;	3200;occ;	118;	0;46476
13;	5347.3;	19-JAN-2011 15:27:48;	Dark ;	52.0;	104;	27Bet Lib ;	2.61;	13100;occ;	104;	0;46476
14;	5449.1;	19-JAN-2011 15:29:30;	Dark ;	41.5;	156;	20Sig Sco ;	2.90;	28000;occ;	83;	0;46476
15;	5556.6;	19-JAN-2011 15:31:17;	Dark ;	56.0;	122;	9Alp2Lib ;	2.75;	9700;occ;	112;	0;46476
16;	5771.4;	19-JAN-2011 15:34:52;	Dark ;	39.5;	131;	Gam Lup ;	2.80;	26000;occ;	79;	0;46476
17;	5883.7;	19-JAN-2011 15:36:45;	Dark ;	42.0;	109;	Bet Lup ;	2.68;	26000;occ;	84;	0;46476
18;	5985.0;	19-JAN-2011 15:38:26;	Dark ;	53.0;	54;	5The Cen ;	2.06;	4500;occ;	106;	0;46476
19;	6186.0;	19-JAN-2011 15:41:47;	Dark ;	43.0;	77;	Eps Cen ;	2.30;	28000;occ;	86;	0;46477
20;	6382.3;	19-JAN-2011 15:45:03;	Dark ;	40.5;	12;	Alp1Cru ;	0.77;	30000;occ;	81;	0;46477
21;	6474.7;	19-JAN-2011 15:46:36;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;46477
22;	6704.0;	19-JAN-2011 15:50:25;	Dark ;	56.5;	113;	Mu Vel ;	2.69;	5000;occ;	113;	0;46477
23;	6814.2;	19-JAN-2011 15:52:15;	Dark ;	38.0;	91;	Kap Vel ;	2.49;	26000;occ;	76;	0;46477
24;	7012.2;	19-JAN-2011 15:55:33;	Dark ;	49.0;	65;	Lam Vel ;	2.20;	4400;occ;	98;	0;46477
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3;	2173.2;	19-JAN-2011 16:15:08;	Dark ;	53.0;	44;	24Gam Gem ;	1.93;	11000;occ;	106;	0;46477
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6; 2424.2; 19-JAN-2011 17:59:33; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;46478
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12; 4980.9; 19-JAN-2011 18:42:10; Bright; 66.0; 102; 24Alp Ser ; 2.60; 4250;occ; 132; 0;46478
13; 5104.4; 19-JAN-2011 18:44:13; Bright; 59.0; 120; 1Del Oph ; 2.73; 3200;occ; 118; 0;46478
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3; 2415.7; 21-JAN-2011 08:24:47; Bright; 45.0; 17; 78Bet Gem ; 1.16; 4500;occ; 90; 0;46501
4; 3371.4; 21-JAN-2011 08:40:43; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;46501
5; 3628.1; 21-JAN-2011 08:45:00; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46501
6; 3896.2; 21-JAN-2011 08:49:28; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;46501
7; 4444.3; 21-JAN-2011 08:58:36; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46501
8; 4585.1; 21-JAN-2011 09:00:57; Bright; 46.5; 67; 5Alp CrB ; 2.22; 11000;occ; 93; 0;46501
9; 4994.7; 21-JAN-2011 09:07:46; Bright; 46.5; 102; 24Alp Ser ; 2.60; 4250;occ; 93; 0;46501
10; 5191.2; 21-JAN-2011 09:11:03; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;46501
11; 5459.2; 21-JAN-2011 09:15:31; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;46501
12; 5586.7; 21-JAN-2011 09:17:38; Dark ; 57.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 114; 0;46501
13; 5786.5; 21-JAN-2011 09:20:58; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;46501
14; 5902.1; 21-JAN-2011 09:22:54; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;46501
15; 6013.1; 21-JAN-2011 09:24:45; Dark ; 55.5; 54; 5The Cen ; 2.06; 4500;occ; 111; 0;46502
16; 6125.7; 21-JAN-2011 09:26:37; Dark ; 45.5; 95; Zet Cen ; 2.55; 26000;occ; 91; 0;46502
17; 6222.2; 21-JAN-2011 09:28:14; Dark ; 53.0; 123; Tot Cen ; 2.75; 10200;occ; 106; 0;46502
18; 6396.1; 21-JAN-2011 09:31:08; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46502
19; 6497.1; 21-JAN-2011 09:32:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46502
20; 6722.1; 21-JAN-2011 09:36:34; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46502
21; 6825.3; 21-JAN-2011 09:38:17; Dark ; 41.0; 91; Kap Vel ; 2.49; 26000;occ; 82; 0;46502
22; 7023.9; 21-JAN-2011 09:41:35; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;46502
23; 7169.6; 21-JAN-2011 09:44:01; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;46502
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2; 2322.8; 21-JAN-2011 10:03:28; Bright; 37.0; 170; 27Eps Gem ; 3.00; 9700;occ; 74; 0;46502
3; 2415.3; 21-JAN-2011 10:05:01; Bright; 45.5; 17; 78Bet Gem ; 1.16; 4500;occ; 91; 0;46502
4; 3370.6; 21-JAN-2011 10:20:56; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;46502
5; 3627.8; 21-JAN-2011 10:25:13; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46502
6; 3896.1; 21-JAN-2011 10:29:42; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46502
7; 4444.5; 21-JAN-2011 10:38:50; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46502
8; 4585.4; 21-JAN-2011 10:41:11; Bright; 70.0; 67; 5Alp CrB ; 2.22; 11000;occ; 140; 0;46502
9; 4995.2; 21-JAN-2011 10:48:01; Bright; 47.5; 102; 24Alp Ser ; 2.60; 4250;occ; 95; 0;46502
10; 5191.6; 21-JAN-2011 10:51:17; Bright; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0;46502
11; 5460.0; 21-JAN-2011 10:55:45; Dark ; 48.5; 80; 7Del Sco ; 2.32; 30000;occ; 97; 0;46502
12; 5587.9; 21-JAN-2011 10:57:53; Dark ; 50.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 100; 0;46502
13; 5787.2; 21-JAN-2011 11:01:13; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;46502

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 15; 6014.1; 21-JAN-2011 11:05:00; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;46503  
 16; 6126.7; 21-JAN-2011 11:06:52; Dark ; 45.5; 95; Zet Cen ; 2.55; 26000;occ; 91; 0;46503  
 17; 6223.6; 21-JAN-2011 11:08:29; Dark ; 56.0; 123; Iot Cen ; 2.75; 10200;occ; 112; 0;46503  
 18; 6396.6; 21-JAN-2011 11:11:22; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;46503  
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 20; 6722.9; 21-JAN-2011 11:16:48; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;46503  
 21; 6825.8; 21-JAN-2011 11:18:31; Dark ; 40.5; 91; Kap Vel ; 2.49; 26000;occ; 81; 0;46503  
 22; 7024.4; 21-JAN-2011 11:21:50; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;46503  
 23; 7169.8; 21-JAN-2011 11:24:15; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;46503  
 24; 7441.3; 21-JAN-2011 11:28:47; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;46503

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 2; 2322.8; 21-JAN-2011 11:43:42; Bright; 38.5; 170; 27Eps Gem ; 3.00; 9700;occ; 77; 0;46503  
 3; 2415.1; 21-JAN-2011 11:45:14; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;46503  
 4; 3369.8; 21-JAN-2011 12:01:09; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;46503  
 5; 3627.7; 21-JAN-2011 12:05:27; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;46503  
 6; 3896.0; 21-JAN-2011 12:09:55; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46503  
 7; 4444.5; 21-JAN-2011 12:19:04; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46503  
 8; 4585.6; 21-JAN-2011 12:21:25; Bright; 59.0; 67; 5Alp CrB ; 2.22; 11000;occ; 118; 0;46503  
 9; 4995.9; 21-JAN-2011 12:28:15; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;46503  
 10; 5192.2; 21-JAN-2011 12:31:32; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;46503  
 11; 5460.8; 21-JAN-2011 12:36:00; Dark ; 45.5; 80; 7Del Sco ; 2.32; 30000;occ; 91; 0;46503  
 12; 5589.2; 21-JAN-2011 12:38:09; Dark ; 50.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 100; 0;46503  
 13; 5787.8; 21-JAN-2011 12:41:27; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;46503  
 14; 5903.6; 21-JAN-2011 12:43:23; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;46503  
 15; 6015.3; 21-JAN-2011 12:45:15; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;46504  
 16; 6127.4; 21-JAN-2011 12:47:07; Dark ; 44.5; 95; Zet Cen ; 2.55; 26000;occ; 89; 0;46504  
 17; 6224.8; 21-JAN-2011 12:48:44; Dark ; 53.5; 123; Iot Cen ; 2.75; 10200;occ; 107; 0;46504  
 18; 6397.2; 21-JAN-2011 12:51:37; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;46504  
 19; 6498.9; 21-JAN-2011 12:53:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46504  
 20; 6723.6; 21-JAN-2011 12:57:03; Dark ; 56.5; 113; Mu Vel ; 2.69; 5000;occ; 113; 0;46504  
 21; 6826.2; 21-JAN-2011 12:58:46; Dark ; 40.0; 91; Kap Vel ; 2.49; 26000;occ; 80; 0;46504  
 22; 7024.8; 21-JAN-2011 13:02:04; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0;46504  
 23; 7170.1; 21-JAN-2011 13:04:30; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;46504  
 24; 7441.5; 21-JAN-2011 13:09:01; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;46504

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1; 1986.6; 21-JAN-2011 13:18:20; Dark ; 51.5; 8; 10Alp CMI ; 0.40; 6500;occ; 103; 0;46504  
 2; 2322.9; 21-JAN-2011 13:23:56; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;46504  
 3; 2414.6; 21-JAN-2011 13:25:28; Bright; 44.5; 17; 78Bet Gem ; 1.16; 4500;occ; 89; 0;46504  
 4; 3369.2; 21-JAN-2011 13:41:23; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;46504  
 5; 3627.5; 21-JAN-2011 13:45:41; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;46504  
 6; 3896.0; 21-JAN-2011 13:50:09; Bright; 56.0; 119; 14Eta Dra ; 2.73; 4700;occ; 112; 0;46504  
 7; 4444.8; 21-JAN-2011 13:59:18; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46504  
 8; 4585.9; 21-JAN-2011 14:01:39; Bright; 70.0; 67; 5Alp CrB ; 2.22; 11000;occ; 140; 0;46504  
 9; 4996.7; 21-JAN-2011 14:08:30; Bright; 50.5; 102; 24Alp Ser ; 2.60; 4250;occ; 101; 0;46504  
 10; 5192.7; 21-JAN-2011 14:11:46; Dark ; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;46504  
 11; 5461.3; 21-JAN-2011 14:16:15; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;46504  
 12; 5590.5; 21-JAN-2011 14:18:24; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;46504  
 13; 5788.6; 21-JAN-2011 14:21:42; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;46504  
 14; 5904.4; 21-JAN-2011 14:23:38; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;46504  
 15; 6016.5; 21-JAN-2011 14:25:30; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;46505  
 16; 6128.6; 21-JAN-2011 14:27:22; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;46505  
 17; 6226.3; 21-JAN-2011 14:29:00; Dark ; 54.5; 123; Iot Cen ; 2.75; 10200;occ; 109; 0;46505  
 18; 6397.7; 21-JAN-2011 14:31:51; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;46505  
 19; 6499.9; 21-JAN-2011 14:33:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46505  
 20; 6724.3; 21-JAN-2011 14:37:18; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46505  
 21; 6826.8; 21-JAN-2011 14:39:00; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;46505  
 22; 7025.4; 21-JAN-2011 14:42:19; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;46505  
 23; 7170.6; 21-JAN-2011 14:44:44; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;46505  
 24; 7441.7; 21-JAN-2011 14:49:15; Dark ; 28.5; 132; 15Rho Pup ; 2.80; 6900;occ; 57; 0;46505

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 2; 1986.5; 21-JAN-2011 14:58:34; Dark ; 53.5; 8; 10Alp CMI ; 0.40; 6500;occ; 107; 0;46505  
 3; 2322.9; 21-JAN-2011 15:04:10; Bright; 39.5; 170; 27Eps Gem ; 3.00; 9700;occ; 79; 0;46505  
 4; 2414.4; 21-JAN-2011 15:05:42; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;46505  
 5; 3368.4; 21-JAN-2011 15:21:36; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;46505  
 6; 3627.4; 21-JAN-2011 15:25:55; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46505



7;	3895.9;	21-JAN-2011	15:30:23;	Bright;	39.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	78;	0;	46505	
8;	4445.0;	21-JAN-2011	15:39:32;	Bright;	57.0;	133;	40Zet Her	;	2.81;	6000;	occ;	114;	0;	46505	
9;	4586.2;	21-JAN-2011	15:41:54;	Bright;	70.0;	67;	5Alp CrB	;	2.22;	11000;	occ;	140;	0;	46505	
10;	4997.4;	21-JAN-2011	15:48:45;	Bright;	53.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	106;	0;	46505	
11;	5193.3;	21-JAN-2011	15:52:01;	Dark	;	43.0;	98;	13Zet Oph	;	2.57;	30000;	occ;	86;	0;	46505
12;	5462.0;	21-JAN-2011	15:56:29;	Dark	;	47.5;	80;	7Del Sco	;	2.32;	30000;	occ;	95;	0;	46505
13;	5592.0;	21-JAN-2011	15:58:39;	Dark	;	43.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	86;	0;	46505
14;	5789.1;	21-JAN-2011	16:01:56;	Dark	;	40.0;	131;	Gam Lup	;	2.80;	26000;	occ;	80;	0;	46505
15;	5905.3;	21-JAN-2011	16:03:53;	Dark	;	42.0;	109;	Bet Lup	;	2.68;	26000;	occ;	84;	0;	46505
16;	6017.8;	21-JAN-2011	16:05:45;	Dark	;	54.5;	54;	5The Cen	;	2.06;	4500;	occ;	109;	0;	46506
17;	6129.5;	21-JAN-2011	16:07:37;	Dark	;	45.0;	95;	Zet Cen	;	2.55;	26000;	occ;	90;	0;	46506
18;	6227.8;	21-JAN-2011	16:09:15;	Dark	;	51.0;	123;	Iot Cen	;	2.75;	10200;	occ;	102;	0;	46506
19;	6398.4;	21-JAN-2011	16:12:06;	Dark	;	41.5;	12;	Alp1Cru	;	0.77;	30000;	occ;	83;	0;	46506
20;	6500.8;	21-JAN-2011	16:13:48;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	46506
21;	6725.2;	21-JAN-2011	16:17:33;	Dark	;	51.0;	113;	Mu Vel	;	2.69;	5000;	occ;	102;	0;	46506
22;	6827.3;	21-JAN-2011	16:19:15;	Dark	;	38.0;	91;	Kap Vel	;	2.49;	26000;	occ;	76;	0;	46506
23;	7025.8;	21-JAN-2011	16:22:33;	Dark	;	47.5;	65;	Lam Vel	;	2.20;	4400;	occ;	95;	0;	46506
24;	7170.9;	21-JAN-2011	16:24:58;	Dark	;	43.5;	70;	Zet Pup	;	2.25;	39000;	occ;	87;	0;	46506

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2;	1986.5;	21-JAN-2011	16:38:48;	Dark	;	55.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	111;	0;	46506
3;	2322.8;	21-JAN-2011	16:44:24;	Bright;	39.5;	170;	27Eps Gem	;	3.00;	9700;	occ;	79;	0;	46506	
4;	2413.9;	21-JAN-2011	16:45:55;	Bright;	44.0;	17;	78Bet Gem	;	1.16;	4500;	occ;	88;	0;	46506	
5;	3367.8;	21-JAN-2011	17:01:49;	Bright;	49.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	98;	0;	46506	
6;	3627.2;	21-JAN-2011	17:06:09;	Bright;	40.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	80;	0;	46506	
7;	3895.9;	21-JAN-2011	17:10:37;	Bright;	39.5;	119;	14Eta Dra	;	2.73;	4700;	occ;	79;	0;	46506	
8;	4445.1;	21-JAN-2011	17:19:47;	Bright;	57.0;	133;	40Zet Her	;	2.81;	6000;	occ;	114;	0;	46506	
9;	4586.5;	21-JAN-2011	17:22:08;	Bright;	47.5;	67;	5Alp CrB	;	2.22;	11000;	occ;	95;	0;	46506	
10;	4998.0;	21-JAN-2011	17:28:59;	Bright;	55.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	110;	0;	46506	
11;	5193.8;	21-JAN-2011	17:32:15;	Dark	;	44.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	89;	0;	46506
12;	5462.6;	21-JAN-2011	17:36:44;	Dark	;	47.5;	80;	7Del Sco	;	2.32;	30000;	occ;	95;	0;	46506
13;	5593.3;	21-JAN-2011	17:38:55;	Dark	;	36.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	72;	0;	46506
14;	5789.8;	21-JAN-2011	17:42:11;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;	occ;	78;	0;	46506
15;	5905.9;	21-JAN-2011	17:44:07;	Dark	;	43.5;	109;	Bet Lup	;	2.68;	26000;	occ;	87;	0;	46506
16;	6018.8;	21-JAN-2011	17:46:00;	Dark	;	51.0;	54;	5The Cen	;	2.06;	4500;	occ;	102;	0;	46507
17;	6130.4;	21-JAN-2011	17:47:52;	Dark	;	44.0;	95;	Zet Cen	;	2.55;	26000;	occ;	88;	0;	46507
18;	6229.2;	21-JAN-2011	17:49:31;	Dark	;	54.5;	123;	Iot Cen	;	2.75;	10200;	occ;	109;	0;	46507
19;	6398.9;	21-JAN-2011	17:52:20;	Dark	;	44.5;	12;	Alp1Cru	;	0.77;	30000;	occ;	89;	0;	46507
20;	6501.8;	21-JAN-2011	17:54:03;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	46507
21;	6725.8;	21-JAN-2011	17:57:47;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;	occ;	93;	0;	46507
22;	6827.8;	21-JAN-2011	17:59:29;	Dark	;	39.0;	91;	Kap Vel	;	2.49;	26000;	occ;	78;	0;	46507
23;	7026.3;	21-JAN-2011	18:02:48;	Dark	;	51.5;	65;	Lam Vel	;	2.20;	4400;	occ;	103;	0;	46507

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2;	1428.0;	21-JAN-2011	18:09:44;	Dark	;	44.5;	132;	15Rho Pup	;	2.80;	6900;	occ;	89;	0;	46507
3;	1986.4;	21-JAN-2011	18:19:02;	Dark	;	52.5;	8;	10Alp CMi	;	0.40;	6500;	occ;	105;	0;	46507
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6;	3367.0;	21-JAN-2011	18:42:03;	Bright;	48.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	97;	0;	46507	
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11; 5214.6; 24-JAN-2011 17:22:39; Dark ; 44.0; 98; 13Zet Oph ; 2.57; 30000;occ; 88; 0;46549  
12; 5484.5; 24-JAN-2011 17:27:09; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46549  
13; 5818.1; 24-JAN-2011 17:32:42; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;46549  
14; 5939.4; 24-JAN-2011 17:34:43; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;46549  
15; 6069.5; 24-JAN-2011 17:36:54; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;46550  
16; 6216.1; 24-JAN-2011 17:39:20; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46550  
17; 6422.7; 24-JAN-2011 17:42:47; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46550  
18; 6539.7; 24-JAN-2011 17:44:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46550  
19; 6755.8; 24-JAN-2011 17:48:20; Dark ; 52.0; 113; Mu Vel ; 2.69; 5000;occ; 104; 0;46550  
20; 6846.1; 24-JAN-2011 17:49:50; Dark ; 40.5; 91; Kap Vel ; 2.49; 26000;occ; 81; 0;46550  
21; 7045.5; 24-JAN-2011 17:53:10; Dark ; 57.5; 65; Lam Vel ; 2.20; 4400;occ; 115; 0;46550

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2; 1437.2; 24-JAN-2011 17:59:55; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;46550  
3; 1982.6; 24-JAN-2011 18:09:01; Dark ; 49.0; 8; 10Alp CMi ; 0.40; 6500;occ; 98; 0;46550  
4; 2400.4; 24-JAN-2011 18:15:59; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;46550  
5; 3336.7; 24-JAN-2011 18:31:35; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;46550  
6; 3618.1; 24-JAN-2011 18:36:16; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46550  
7; 3891.1; 24-JAN-2011 18:40:49; Bright; 57.0; 119; 14Eta Dra ; 2.73; 4700;occ; 114; 0;46550  
8; 4065.4; 24-JAN-2011 18:43:44; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;46550  
9; 4451.2; 24-JAN-2011 18:50:09; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;46550  
10; 4651.2; 24-JAN-2011 18:53:29; Bright; 61.0; 127; 27Bet Her ; 2.78; 4700;occ; 122; 0;46550  
11; 5027.4; 24-JAN-2011 18:59:46; Dark ; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;46550  
12; 5215.2; 24-JAN-2011 19:02:53; Dark ; 47.5; 98; 13Zet Oph ; 2.57; 30000;occ; 95; 0;46550  
13; 5485.0; 24-JAN-2011 19:07:23; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;46550  
14; 5818.5; 24-JAN-2011 19:12:57; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;46550  
15; 5939.9; 24-JAN-2011 19:14:58; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46550

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16; 6070.7; 24-JAN-2011 19:17:09; Dark ; 56.5; 54; 5The Cen ; 2.06; 4500;occ; 113; 0;46551
17; 6216.5; 24-JAN-2011 19:19:35; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;46551
18; 6423.3; 24-JAN-2011 19:23:02; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;46551
19; 6540.5; 24-JAN-2011 19:24:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46551
20; 6756.4; 24-JAN-2011 19:28:35; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46551
21; 6846.5; 24-JAN-2011 19:30:05; Dark ; 38.5; 91; Kap Vel ; 2.49; 26000;occ; 77; 0;46551
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 2; 1437.2; 24-JAN-2011 19:40:10; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;46551
 3; 1982.6; 24-JAN-2011 19:49:15; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;46551
 4; 2400.1; 24-JAN-2011 19:56:12; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;46551
 5; 3335.7; 24-JAN-2011 20:11:48; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;46551
 6; 3617.8; 24-JAN-2011 20:16:30; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;46551
 7; 3891.0; 24-JAN-2011 20:21:03; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46551
 8; 4065.3; 24-JAN-2011 20:23:58; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;46551
 9; 4451.1; 24-JAN-2011 20:30:23; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;46551
10; 4651.5; 24-JAN-2011 20:33:44; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;46551
11; 5028.2; 24-JAN-2011 20:40:00; Dark ; 59.5; 102; 24Alp Ser ; 2.60; 4250;occ; 119; 0;46551
12; 5215.7; 24-JAN-2011 20:43:08; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;46551
13; 5485.4; 24-JAN-2011 20:47:38; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;46551
14; 5819.1; 24-JAN-2011 20:53:11; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;46551
15; 5940.7; 24-JAN-2011 20:55:13; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;46551
16; 6071.9; 24-JAN-2011 20:57:24; Dark ; 54.5; 54; 5The Cen ; 2.06; 4500;occ; 109; 0;46552
17; 6216.9; 24-JAN-2011 20:59:49; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;46552
18; 6423.5; 24-JAN-2011 21:03:16; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;46552
19; 6541.3; 24-JAN-2011 21:05:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46552
20; 6757.0; 24-JAN-2011 21:08:49; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46552
21; 6846.9; 24-JAN-2011 21:10:19; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;46552
22; 7046.1; 24-JAN-2011 21:13:38; Dark ; 24.5; 65; Lam Vel ; 2.20; 4400;occ; 49; 0;46552
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 2; -527.5; 25-JAN-2011 00:08:07; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;46553
 3; -71.5; 25-JAN-2011 00:15:43; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;46553
 4; 60.2; 25-JAN-2011 00:17:54; Dark ; 56.5; 54; 5The Cen ; 2.06; 4500;occ; 113; 0;46554
 5; 204.2; 25-JAN-2011 00:20:18; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;46554
 6; 410.6; 25-JAN-2011 00:23:45; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;46554
 7; 529.1; 25-JAN-2011 00:25:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46554
 8; 744.4; 25-JAN-2011 00:29:19; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46554
 9; 833.6; 25-JAN-2011 00:30:48; Dark ; 41.5; 91; Kap Vel ; 2.49; 26000;occ; 83; 0;46554
10; 1032.9; 25-JAN-2011 00:34:07; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;46554
11; 1437.7; 25-JAN-2011 00:40:52; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;46554
12; 1982.4; 25-JAN-2011 00:49:57; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;46554
13; 2399.2; 25-JAN-2011 00:56:53; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;46554
14; 3333.7; 25-JAN-2011 01:12:28; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;46554
15; 3617.1; 25-JAN-2011 01:17:11; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46554
16; 3890.7; 25-JAN-2011 01:21:45; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;46554
17; 4065.5; 25-JAN-2011 01:24:40; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;46554
18; 4451.6; 25-JAN-2011 01:31:06; Bright; 59.0; 133; 40Zet Her ; 2.81; 6000;occ; 118; 0;46554
19; 4652.1; 25-JAN-2011 01:34:26; Bright; 61.0; 127; 27Bet Her ; 2.78; 4700;occ; 122; 0;46554
20; 5030.3; 25-JAN-2011 01:40:44; Dark ; 60.5; 102; 24Alp Ser ; 2.60; 4250;occ; 121; 0;46554
21; 5217.1; 25-JAN-2011 01:43:51; Dark ; 12.5; 98; 13Zet Oph ; 2.57; 30000;occ; 25; 0;46554
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 2; -585.8; 25-JAN-2011 01:47:22; Dark ; 26.0; 104; 27Bet Lib ; 2.61; 13100;occ; 52; 0;46554
 3; -526.9; 25-JAN-2011 01:48:21; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;46554
 4; -192.8; 25-JAN-2011 01:53:55; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;46554
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 6; 61.6; 25-JAN-2011 01:58:10; Dark ; 56.0; 54; 5The Cen ; 2.06; 4500;occ; 112; 0;46555
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 9; 530.0; 25-JAN-2011 02:05:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46555
10; 744.8; 25-JAN-2011 02:09:33; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;46555
11; 834.2; 25-JAN-2011 02:11:02; Dark ; 39.5; 91; Kap Vel ; 2.49; 26000;occ; 79; 0;46555
12; 1033.4; 25-JAN-2011 02:14:22; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;46555
13; 1438.2; 25-JAN-2011 02:21:06; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;46555
14; 1982.2; 25-JAN-2011 02:30:10; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;46555
15; 2399.0; 25-JAN-2011 02:37:07; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;46555
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1	-2397.1	25-JAN-2011 02:57:25	Bright	36.5	60	7Bet UMi	2.08	3950	occ	73	0	46555
2	-2123.6	25-JAN-2011 03:01:59	Bright	39.0	119	14Eta Dra	2.73	4700	occ	78	0	46555
3	-1948.3	25-JAN-2011 03:04:54	Bright	36.0	130	23Bet Dra	2.80	5800	occ	72	0	46555
4	-1562.2	25-JAN-2011 03:11:20	Bright	39.0	133	40Zet Her	2.81	6000	occ	78	0	46555
5	-1361.5	25-JAN-2011 03:14:41	Bright	42.5	127	27Bet Her	2.78	4700	occ	85	0	46555
6	-982.9	25-JAN-2011 03:20:59	Dark	58.5	102	24Alp Ser	2.60	4250	occ	117	0	46555
7	-796.2	25-JAN-2011 03:24:06	Dark	42.0	98	13Zet Oph	2.57	30000	occ	84	0	46555
8	-584.5	25-JAN-2011 03:27:38	Dark	26.0	104	27Bet Lib	2.61	13100	occ	52	0	46555
9	-526.4	25-JAN-2011 03:28:36	Dark	55.0	16	21Alp Sco	1.02	3000	occ	110	0	46555
10	-192.0	25-JAN-2011 03:34:10	Dark	42.5	131	Gam Lup	2.80	26000	occ	85	0	46555
11	-69.9	25-JAN-2011 03:36:12	Dark	43.5	109	Bet Lup	2.68	26000	occ	87	0	46555
12	62.9	25-JAN-2011 03:38:25	Dark	56.5	54	5The Cen	2.06	4500	occ	113	0	46556
13	205.5	25-JAN-2011 03:40:48	Dark	40.5	10	Bet Cen	0.61	28000	occ	81	0	46556
14	412.0	25-JAN-2011 03:44:14	Dark	43.5	12	Alp1Cru	0.77	30000	occ	87	0	46556
15	530.8	25-JAN-2011 03:46:13	Dark	59.5	0		0.00	0	occ	119	0	46556
16	745.8	25-JAN-2011 03:49:48	Dark	52.5	113	Mu Vel	2.69	5000	occ	105	0	46556
17	834.8	25-JAN-2011 03:51:17	Dark	40.0	91	Kap Vel	2.49	26000	occ	80	0	46556
18	1033.9	25-JAN-2011 03:54:36	Dark	50.0	65	Lam Vel	2.20	4400	occ	100	0	46556
19	1438.4	25-JAN-2011 04:01:21	Dark	47.5	132	15Rho Pup	2.80	6900	occ	95	0	46556
20	1982.5	25-JAN-2011 04:10:25	Dark	49.0	8	10Alp CMi	0.40	6500	occ	98	0	46556
21	2398.9	25-JAN-2011 04:17:21	Bright	43.5	17	78Bet Gem	1.16	4500	occ	87	0	46556
22	3332.4	25-JAN-2011 04:32:55	Bright	48.0	36	50Alp UMa	1.80	6300	occ	96	0	46556
23	3616.9	25-JAN-2011 04:37:39	Bright	39.5	60	7Bet UMi	2.08	3950	occ	79	0	46556

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1	-2123.6	25-JAN-2011 04:42:13	Bright	39.0	119	14Eta Dra	2.73	4700	occ	78	0	46556
2	-1948.4	25-JAN-2011 04:45:08	Bright	43.5	130	23Bet Dra	2.80	5800	occ	87	0	46556
3	-1562.1	25-JAN-2011 04:51:34	Bright	59.0	133	40Zet Her	2.81	6000	occ	118	0	46556
4	-1361.2	25-JAN-2011 04:54:55	Bright	61.0	127	27Bet Her	2.78	4700	occ	122	0	46556
5	-982.1	25-JAN-2011 05:01:14	Dark	59.5	102	24Alp Ser	2.60	4250	occ	119	0	46556
6	-795.6	25-JAN-2011 05:04:21	Dark	46.5	98	13Zet Oph	2.57	30000	occ	93	0	46556
7	-525.7	25-JAN-2011 05:08:51	Dark	56.5	16	21Alp Sco	1.02	3000	occ	113	0	46556
8	-191.2	25-JAN-2011 05:14:25	Dark	40.0	131	Gam Lup	2.80	26000	occ	80	0	46556
9	-69.1	25-JAN-2011 05:16:27	Dark	43.5	109	Bet Lup	2.68	26000	occ	87	0	46556
10	64.2	25-JAN-2011 05:18:40	Dark	63.0	54	5The Cen	2.06	4500	occ	126	0	46557
11	206.0	25-JAN-2011 05:21:02	Dark	41.0	10	Bet Cen	0.61	28000	occ	82	0	46557
12	412.3	25-JAN-2011 05:24:29	Dark	42.0	12	Alp1Cru	0.77	30000	occ	84	0	46557
13	531.7	25-JAN-2011 05:26:28	Dark	59.5	0		0.00	0	occ	119	0	46557
14	746.5	25-JAN-2011 05:30:03	Dark	44.0	113	Mu Vel	2.69	5000	occ	88	0	46557
15	835.2	25-JAN-2011 05:31:31	Dark	39.5	91	Kap Vel	2.49	26000	occ	79	0	46557
16	1034.2	25-JAN-2011 05:34:50	Dark	47.0	65	Lam Vel	2.20	4400	occ	94	0	46557
17	1438.8	25-JAN-2011 05:41:35	Dark	44.5	132	15Rho Pup	2.80	6900	occ	89	0	46557
18	1982.4	25-JAN-2011 05:50:39	Dark	47.0	8	10Alp CMi	0.40	6500	occ	94	0	46557
19	2398.8	25-JAN-2011 05:57:35	Bright	42.0	17	78Bet Gem	1.16	4500	occ	84	0	46557
20	3331.7	25-JAN-2011 06:13:08	Bright	48.0	36	50Alp UMa	1.80	6300	occ	96	0	46557
21	3616.5	25-JAN-2011 06:17:53	Bright	35.5	60	7Bet UMi	2.08	3950	occ	71	0	46557

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1	49.9	25-JAN-2011 22:00:46	Dark	58.5	0		0.00	0	occ	117	0	46567
2	211.7	25-JAN-2011 22:03:28	Dark	42.5	10	Bet Cen	0.61	28000	occ	85	0	46567
3	417.9	25-JAN-2011 22:06:54	Dark	43.5	12	Alp1Cru	0.77	30000	occ	87	0	46567
4	515.6	25-JAN-2011 22:08:32	Dark	46.5	99	Del Cen	2.58	26000	occ	93	0	46567
5	839.0	25-JAN-2011 22:13:55	Dark	40.5	91	Kap Vel	2.49	26000	occ	81	0	46567
6	1038.3	25-JAN-2011 22:17:15	Dark	47.0	65	Lam Vel	2.20	4400	occ	94	0	46567
7	1440.6	25-JAN-2011 22:23:57	Dark	42.0	132	15Rho Pup	2.80	6900	occ	84	0	46567
8	1981.8	25-JAN-2011 22:32:58	Dark	46.5	8	10Alp CMi	0.40	6500	occ	93	0	46567
9	2396.0	25-JAN-2011 22:39:52	Bright	44.0	17	78Bet Gem	1.16	4500	occ	88	0	46567
10	3324.7	25-JAN-2011 22:55:21	Bright	48.0	36	50Alp UMa	1.80	6300	occ	96	0	46567
11	3614.3	25-JAN-2011 23:00:11	Bright	40.5	60	7Bet UMi	2.08	3950	occ	81	0	46567
12	3888.9	25-JAN-2011 23:04:45	Bright	53.0	119	14Eta Dra	2.73	4700	occ	106	0	46567
13	4066.0	25-JAN-2011 23:07:42	Bright	54.0	130	23Bet Dra	2.80	5800	occ	108	0	46567
14	4453.4	25-JAN-2011 23:14:10	Bright	40.5	133	40Zet Her	2.81	6000	occ	81	0	46567
15	4655.8	25-JAN-2011 23:17:32	Bright	42.0	127	27Bet Her	2.78	4700	occ	84	0	46567
16	5040.0	25-JAN-2011 23:23:56	Dark	60.5	102	24Alp Ser	2.60	4250	occ	121	0	46567
17	5224.3	25-JAN-2011 23:27:01	Dark	43.5	98	13Zet Oph	2.57	30000	occ	87	0	46567

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1	-2364.5	25-JAN-2011 06:18:26	Bright	36.0	60	7Bet UMi	2.08	3950	occ	72	66	46557
2	-2123.7	25-JAN-2011 06:22:27	Bright	57.0	119	14Eta Dra	2.73	4700	occ	114	0	46557
3	-1948.3	25-JAN-2011 06:25:22	Bright	53.5	130	23Bet Dra	2.80	5800	occ	107	0	46557

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3; 2394.6; 26-JAN-2011 08:41:15; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;46573  
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7; 4066.2; 26-JAN-2011 09:09:07; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;46573

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13; 5834.7; 26-JAN-2011 09:38:35; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;46573  
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3; 3319.7; 26-JAN-2011 10:36:54; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;46574  
4; 3612.6; 26-JAN-2011 10:41:47; Bright; 46.5; 60; 7Bet UMi ; 2.08; 3950;occ; 93; 0;46574  
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6; 4066.0; 26-JAN-2011 10:49:21; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;46574  
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9; 5045.2; 26-JAN-2011 11:05:40; Dark ; 63.0; 102; 24Alp Ser ; 2.60; 4250;occ; 126; 0;46574  
10; 5228.2; 26-JAN-2011 11:08:43; Dark ; 45.5; 98; 13Zet Oph ; 2.57; 30000;occ; 91; 0;46574  
11; 5498.4; 26-JAN-2011 11:13:13; Dark ; 47.5; 16; 21Alp Sco ; 1.02; 3000;occ; 95; 0;46574  
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14; 6047.1; 26-JAN-2011 11:22:22; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;46575  
15; 6230.2; 26-JAN-2011 11:25:25; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;46575  
16; 6436.3; 26-JAN-2011 11:28:51; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46575  
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19; 7055.7; 26-JAN-2011 11:39:10; Dark ; 54.5; 65; Lam Vel ; 2.20; 4400;occ; 109; 0;46575  
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3; 3319.1; 26-JAN-2011 12:17:08; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;46575  
4; 3612.5; 26-JAN-2011 12:22:01; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;46575  
5; 3888.0; 26-JAN-2011 12:26:36; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46575  
6; 4066.1; 26-JAN-2011 12:29:35; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;46575  
7; 4454.4; 26-JAN-2011 12:36:03; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;46575  
8; 4658.1; 26-JAN-2011 12:39:27; Bright; 62.0; 127; 27Bet Her ; 2.78; 4700;occ; 124; 0;46575  
9; 5046.2; 26-JAN-2011 12:45:55; Dark ; 60.5; 102; 24Alp Ser ; 2.60; 4250;occ; 121; 0;46575  
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19; 7056.2; 26-JAN-2011 13:19:25; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;46576  
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3; 3318.4; 26-JAN-2011 13:57:21; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;46576  
4; 3612.3; 26-JAN-2011 14:02:15; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;46576  
5; 3887.9; 26-JAN-2011 14:06:50; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;46576  
6; 4066.2; 26-JAN-2011 14:09:49; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;46576  
7; 4454.8; 26-JAN-2011 14:16:17; Bright; 59.0; 133; 40Zet Her ; 2.81; 6000;occ; 118; 0;46576  
8; 4658.5; 26-JAN-2011 14:19:41; Bright; 62.0; 127; 27Bet Her ; 2.78; 4700;occ; 124; 0;46576  
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14; 6048.9; 26-JAN-2011 14:42:51; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;46577
15; 6231.5; 26-JAN-2011 14:45:54; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46577
16; 6437.4; 26-JAN-2011 14:49:20; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;46577
17; 6563.0; 26-JAN-2011 14:51:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46577
18; 6773.9; 26-JAN-2011 14:54:56; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;46577
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17; 6437.9; 26-JAN-2011 16:29:34; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;46578
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19; 6774.6; 26-JAN-2011 16:35:11; Dark ; 51.5; 113; Mu Vel ; 2.69; 5000;occ; 103; 0;46578
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13; 5838.3; 26-JAN-2011 17:59:49; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;46578
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19; 6775.1; 26-JAN-2011 18:15:26; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46579
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11; 5049.3; 26-JAN-2011 19:26:54; Dark ; 59.0; 102; 24Alp Ser ; 2.60; 4250;occ; 118; 0;46579
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13; 3886.8; 27-JAN-2011 01:48:27; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;46583
14; 4066.2; 27-JAN-2011 01:51:27; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;46583
15; 4455.5; 27-JAN-2011 01:57:56; Bright; 60.0; 133; 40Zet Her ; 2.81; 6000;occ; 120; 0;46583
16; 4660.2; 27-JAN-2011 02:01:21; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;46583
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4; -46.8; 27-JAN-2011 02:23:08; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;46583
5; 40.4; 27-JAN-2011 02:24:35; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;46584
6; 221.3; 27-JAN-2011 02:27:36; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;46584
7; 427.1; 27-JAN-2011 02:31:02; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;46584
8; 554.9; 27-JAN-2011 02:33:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46584
9; 764.2; 27-JAN-2011 02:36:39; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46584
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11; 1444.0; 27-JAN-2011 02:47:58; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;46584
12; 1981.0; 27-JAN-2011 02:56:56; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;46584
13; 2391.9; 27-JAN-2011 03:03:46; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;46584
14; 3312.6; 27-JAN-2011 03:19:07; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;46584
15; 3610.4; 27-JAN-2011 03:24:05; Bright; 19.0; 60; 7Bet UMi ; 2.08; 3950;occ; 38; 0;46584
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2; -2127.4; 27-JAN-2011 03:28:41; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46584
3; -1947.9; 27-JAN-2011 03:31:41; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46584
4; -1558.5; 27-JAN-2011 03:38:10; Bright; 60.0; 133; 40Zet Her ; 2.81; 6000;occ; 120; 0;46584
5; -1353.4; 27-JAN-2011 03:41:35; Bright; 62.0; 127; 27Bet Her ; 2.78; 4700;occ; 124; 0;46584
6; -960.9; 27-JAN-2011 03:48:08; Dark ; 33.0; 102; 24Alp Ser ; 2.60; 4250;occ; 66; 0;46584
7; -780.3; 27-JAN-2011 03:51:08; Dark ; 47.0; 98; 13Zet Oph ; 2.57; 30000;occ; 94; 0;46584
8; -509.8; 27-JAN-2011 03:55:39; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;46584
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11; 41.3; 27-JAN-2011 04:04:50; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;46585
12; 222.0; 27-JAN-2011 04:07:51; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;46585
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14; 555.8; 27-JAN-2011 04:13:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46585
15; 765.1; 27-JAN-2011 04:16:54; Dark ; 51.5; 113; Mu Vel ; 2.69; 5000;occ; 103; 0;46585
16; 1045.8; 27-JAN-2011 04:21:34; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;46585
17; 1444.4; 27-JAN-2011 04:28:13; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;46585
18; 1981.3; 27-JAN-2011 04:37:10; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;46585
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20; 3312.2; 27-JAN-2011 04:59:21; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;46585
21; 3610.3; 27-JAN-2011 05:04:19; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46585
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2; -1947.8; 27-JAN-2011 05:11:55; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;46585
3; -1558.2; 27-JAN-2011 05:18:24; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;46585
4; -1353.1; 27-JAN-2011 05:21:50; Bright; 62.0; 127; 27Bet Her ; 2.78; 4700;occ; 124; 0;46585
5; -960.1; 27-JAN-2011 05:28:23; Dark ; 33.0; 102; 24Alp Ser ; 2.60; 4250;occ; 66; 0;46585
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7; -509.0; 27-JAN-2011 05:35:54; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;46585
8; -170.8; 27-JAN-2011 05:41:32; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;46585

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9;	-45.0;	27-JAN-2011	05:43:38;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;46585
10;	42.1;	27-JAN-2011	05:45:05;	Dark	;	43.0;	78;	Alp Lup	;	2.30;	28000;occ;	86;	0;46586
11;	222.6;	27-JAN-2011	05:48:05;	Dark	;	42.0;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;46586
12;	428.4;	27-JAN-2011	05:51:31;	Dark	;	46.5;	12;	Alp1Cru	;	0.77;	30000;occ;	93;	0;46586
13;	556.6;	27-JAN-2011	05:53:39;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46586
14;	765.6;	27-JAN-2011	05:57:08;	Dark	;	48.5;	113;	Mu Vel	;	2.69;	5000;occ;	97;	0;46586
15;	1046.1;	27-JAN-2011	06:01:49;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;46586
16;	1444.7;	27-JAN-2011	06:08:27;	Dark	;	45.0;	132;	15Rho Pup	;	2.80;	6900;occ;	90;	0;46586
17;	1981.1;	27-JAN-2011	06:17:24;	Dark	;	55.0;	8;	10Alp CMI	;	0.40;	6500;occ;	110;	0;46586
18;	2391.6;	27-JAN-2011	06:24:14;	Bright;	;	41.0;	17;	78Bet Gem	;	1.16;	4500;occ;	82;	0;46586
19;	3311.2;	27-JAN-2011	06:39:34;	Bright;	;	48.0;	36;	50Alp UMa	;	1.80;	6300;occ;	96;	0;46586
20;	3610.1;	27-JAN-2011	06:44:33;	Bright;	;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;46586
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2;	1446.1;	27-JAN-2011	21:10:35;	Dark	;	43.0;	132;	15Rho Pup	;	2.80;	6900;occ;	86;	0;46595
3;	1980.6;	27-JAN-2011	21:19:30;	Dark	;	54.0;	8;	10Alp CMI	;	0.40;	6500;occ;	108;	0;46595
4;	2389.6;	27-JAN-2011	21:26:18;	Bright;	;	43.0;	17;	78Bet Gem	;	1.16;	4500;occ;	86;	0;46595
5;	3305.1;	27-JAN-2011	21:41:34;	Bright;	;	46.5;	36;	50Alp UMa	;	1.80;	6300;occ;	93;	0;46595
6;	3607.9;	27-JAN-2011	21:46:37;	Bright;	;	41.5;	60;	7Bet UMi	;	2.08;	3950;occ;	83;	0;46595
7;	3885.3;	27-JAN-2011	21:51:14;	Bright;	;	39.5;	119;	14Eta Dra	;	2.73;	4700;occ;	79;	0;46595
8;	4066.5;	27-JAN-2011	21:54:15;	Bright;	;	54.0;	130;	23Bet Dra	;	2.80;	5800;occ;	108;	0;46595
9;	4457.2;	27-JAN-2011	22:00:46;	Bright;	;	60.0;	133;	40Zet Her	;	2.81;	6000;occ;	120;	0;46595
10;	4663.7;	27-JAN-2011	22:04:13;	Bright;	;	63.0;	127;	27Bet Her	;	2.78;	4700;occ;	126;	0;46595
11;	4759.4;	27-JAN-2011	22:05:48;	Bright;	;	54.0;	59;	55Alp Oph	;	2.08;	8900;occ;	108;	0;46595
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2;	-1947.6;	27-JAN-2011	06:52:09;	Bright;	;	54.0;	130;	23Bet Dra	;	2.80;	5800;occ;	108;	0;46586
3;	-1558.1;	27-JAN-2011	06:58:39;	Bright;	;	60.0;	133;	40Zet Her	;	2.81;	6000;occ;	120;	0;46586
4;	-1352.8;	27-JAN-2011	07:02:04;	Bright;	;	62.0;	127;	27Bet Her	;	2.78;	4700;occ;	124;	0;46586
5;	-779.1;	27-JAN-2011	07:11:38;	Dark	;	46.0;	98;	13Zet Oph	;	2.57;	30000;occ;	92;	0;46586
6;	-508.5;	27-JAN-2011	07:16:08;	Dark	;	56.5;	16;	21Alp Sco	;	1.02;	3000;occ;	113;	0;46586
7;	-169.9;	27-JAN-2011	07:21:47;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;46586
8;	-44.2;	27-JAN-2011	07:23:53;	Dark	;	43.5;	109;	Bet Lup	;	2.68;	26000;occ;	87;	0;46586
9;	42.8;	27-JAN-2011	07:25:20;	Dark	;	43.5;	78;	Alp Lup	;	2.30;	28000;occ;	87;	0;46587
10;	223.2;	27-JAN-2011	07:28:20;	Dark	;	54.5;	10;	Bet Cen	;	0.61;	28000;occ;	109;	0;46587
11;	429.0;	27-JAN-2011	07:31:46;	Dark	;	48.5;	12;	Alp1Cru	;	0.77;	30000;occ;	97;	0;46587
12;	557.4;	27-JAN-2011	07:33:54;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46587
13;	766.5;	27-JAN-2011	07:37:23;	Dark	;	49.5;	113;	Mu Vel	;	2.69;	5000;occ;	99;	0;46587
14;	1046.7;	27-JAN-2011	07:42:03;	Dark	;	48.0;	65;	Lam Vel	;	2.20;	4400;occ;	96;	0;46587
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3;	3310.6;	27-JAN-2011	08:19:47;	Bright;	;	45.5;	36;	50Alp UMa	;	1.80;	6300;occ;	91;	0;46587
4;	3609.8;	27-JAN-2011	08:24:47;	Bright;	;	40.5;	60;	7Bet UMi	;	2.08;	3950;occ;	81;	0;46587
5;	3886.3;	27-JAN-2011	08:29:23;	Bright;	;	57.0;	119;	14Eta Dra	;	2.73;	4700;occ;	114;	0;46587
6;	4066.5;	27-JAN-2011	08:32:23;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;46587
7;	4456.2;	27-JAN-2011	08:38:53;	Bright;	;	60.0;	133;	40Zet Her	;	2.81;	6000;occ;	120;	0;46587
8;	4661.6;	27-JAN-2011	08:42:18;	Bright;	;	42.0;	127;	27Bet Her	;	2.78;	4700;occ;	84;	0;46587
9;	5235.3;	27-JAN-2011	08:51:52;	Dark	;	47.5;	98;	13Zet Oph	;	2.57;	30000;occ;	95;	0;46587
10;	5506.1;	27-JAN-2011	08:56:23;	Dark	;	52.0;	16;	21Alp Sco	;	1.02;	3000;occ;	104;	0;46587
11;	5844.7;	27-JAN-2011	09:02:01;	Dark	;	41.5;	131;	Gam Lup	;	2.80;	26000;occ;	83;	0;46587
12;	5970.6;	27-JAN-2011	09:04:07;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;46587
13;	6057.7;	27-JAN-2011	09:05:34;	Dark	;	45.5;	78;	Alp Lup	;	2.30;	28000;occ;	91;	0;46588
14;	6237.7;	27-JAN-2011	09:08:34;	Dark	;	42.0;	10;	Bet Cen	;	0.61;	28000;occ;	84;	0;46588
15;	6443.4;	27-JAN-2011	09:12:00;	Dark	;	42.0;	12;	Alp1Cru	;	0.77;	30000;occ;	84;	0;46588
16;	6572.3;	27-JAN-2011	09:14:09;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;46588
17;	6781.0;	27-JAN-2011	09:17:38;	Dark	;	45.0;	113;	Mu Vel	;	2.69;	5000;occ;	90;	0;46588
18;	7061.1;	27-JAN-2011	09:22:18;	Dark	;	52.5;	65;	Lam Vel	;	2.20;	4400;occ;	105;	0;46588
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4;	3609.5;	27-JAN-2011	10:05:00;	Bright;	;	41.0;	60;	7Bet UMi	;	2.08;	3950;occ;	82;	0;46588
5;	3886.3;	27-JAN-2011	10:09:37;	Bright;	;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;46588
6;	4066.4;	27-JAN-2011	10:12:37;	Bright;	;	37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;46588

7; 4456.3; 27-JAN-2011 10:19:07; Bright; 60.0; 133; 40Zet Her ; 2.81; 6000;occ; 120; 0;46588  
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9; 5236.0; 27-JAN-2011 10:32:07; Dark ; 47.0; 98; 13Zet Oph ; 2.57; 30000;occ; 94; 0;46588  
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12; 5971.6; 27-JAN-2011 10:44:22; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;46588  
13; 6058.4; 27-JAN-2011 10:45:49; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;46589  
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16; 6446.6; 27-JAN-2011 19:13:27; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;46594
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19; 6794.5; 28-JAN-2011 20:22:46; Dark ; 51.0; 113; Mu Vel ; 2.69; 5000;occ; 102; 0;46609  
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7; 4066.7; 30-JAN-2011 16:43:36; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;46635
8; 4462.7; 30-JAN-2011 16:50:12; Bright; 62.0; 133; 40Zet Her ; 2.81; 6000;occ; 124; 0;46635

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6; 3878.9; 30-JAN-2011 18:20:42; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;46636  
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9; 4676.5; 30-JAN-2011 18:34:00; Bright; 45.5; 127; 27Bet Her ; 2.78; 4700;occ; 91; 0;46636  
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13; 5617.3; 30-JAN-2011 18:49:41; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;46636  
14; 5881.9; 30-JAN-2011 18:54:05; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46636  
15; 6013.5; 30-JAN-2011 18:56:17; Dark ; 45.5; 109; Bet Lup ; 2.68; 26000;occ; 91; 0;46637  
16; 6111.3; 30-JAN-2011 18:57:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46637  
17; 6266.5; 30-JAN-2011 19:00:30; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;46637  
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19; 6586.7; 30-JAN-2011 19:05:50; Dark ; 47.0; 99; Del Cen ; 2.58; 26000;occ; 94; 0;46637  
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9; 4462.9; 30-JAN-2011 20:10:40; Bright; 62.0; 133; 40Zet Her ; 2.81; 6000;occ; 124; 0;46637  
10; 4676.9; 30-JAN-2011 20:14:14; Bright; 66.0; 127; 27Bet Her ; 2.78; 4700;occ; 132; 0;46637  
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13; 5537.9; 30-JAN-2011 20:28:35; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;46637  
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16; 6014.3; 30-JAN-2011 20:36:32; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;46638  
17; 6111.9; 30-JAN-2011 20:38:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46638  
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19; 6470.7; 30-JAN-2011 20:44:08; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46638  
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9; 800.4; 31-JAN-2011 01:50:34; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;46641  
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21; 5285.1; 31-JAN-2011 03:05:18; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;46641  
22; 5540.6; 31-JAN-2011 03:09:34; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;46641  
23; 5621.6; 31-JAN-2011 03:10:55; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;46641  
24; 5885.7; 31-JAN-2011 03:15:19; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;46641  
25; 6017.8; 31-JAN-2011 03:17:31; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46642  
26; 6114.7; 31-JAN-2011 03:19:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46642  
27; 6269.5; 31-JAN-2011 03:21:43; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;46642  
28; 6472.9; 31-JAN-2011 03:25:06; Dark ; 52.0; 12; Alp1Cru ; 0.77; 30000;occ; 104; 0;46642  
29; 6590.9; 31-JAN-2011 03:27:04; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46642  
30; 6814.9; 31-JAN-2011 03:30:48; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46642  
31; 7081.5; 31-JAN-2011 03:35:15; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;46642  
32; 7469.2; 31-JAN-2011 03:41:43; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;46642  
33; 7994.5; 31-JAN-2011 03:50:28; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;46642  
34; 8395.0; 31-JAN-2011 03:57:08; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;46642  
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3; -1947.1; 31-JAN-2011 04:25:14; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;46642  
4; -1550.3; 31-JAN-2011 04:31:51; Bright; 62.0; 133; 40Zet Her ; 2.81; 6000;occ; 124; 0;46642  
5; -1335.3; 31-JAN-2011 04:35:26; Bright; 66.0; 127; 27Bet Her ; 2.78; 4700;occ; 132; 0;46642  
6; -1241.7; 31-JAN-2011 04:37:00; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;46642  
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8; -472.7; 31-JAN-2011 04:49:49; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;46642  
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13; 255.9; 31-JAN-2011 05:01:57; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;46643  
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16; 801.6; 31-JAN-2011 05:11:03; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;46643  
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21; 3272.4; 31-JAN-2011 05:52:14; Bright; 48.5; 36; 50Alp UMa ; 1.80; 6300;occ; 97; 0;46643  
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3; -1947.1; 31-JAN-2011 06:05:28; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46643  
4; -1550.2; 31-JAN-2011 06:12:05; Bright; 62.0; 133; 40Zet Her ; 2.81; 6000;occ; 124; 0;46643  
5; -1335.0; 31-JAN-2011 06:15:41; Bright; 45.5; 127; 27Bet Her ; 2.78; 4700;occ; 91; 0;46643  
6; -1241.4; 31-JAN-2011 06:17:14; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;46643  
7; -728.0; 31-JAN-2011 06:25:47; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;46643  
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9; -390.4; 31-JAN-2011 06:31:25; Dark ; 45.0; 158; 6Pi Sco ; 2.91; 28000;occ; 90; 0;46643  
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13; 256.6; 31-JAN-2011 06:42:12; Dark ; 52.0; 10; Bet Cen ; 0.61; 28000;occ; 104; 0;46644  
14; 459.8; 31-JAN-2011 06:45:35; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;46644  
15; 578.5; 31-JAN-2011 06:47:34; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46644  
16; 802.3; 31-JAN-2011 06:51:18; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46644  
17; 1068.3; 31-JAN-2011 06:55:44; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;46644  
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3; 3271.6; 31-JAN-2011 07:32:27; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;46644  
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9; 4773.1; 31-JAN-2011 07:57:29; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;46644  
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13; 5888.3; 31-JAN-2011 08:16:04; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46644  
14; 6020.6; 31-JAN-2011 08:18:16; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;46645  
15; 6116.8; 31-JAN-2011 08:19:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46645  
16; 6271.4; 31-JAN-2011 08:22:27; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;46645  
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18; 6593.3; 31-JAN-2011 08:27:49; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;46645  
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20; 7082.8; 31-JAN-2011 08:35:58; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;46645  
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3; 3271.0; 31-JAN-2011 09:12:40; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46645  
4; 3596.0; 31-JAN-2011 09:18:06; Bright; 52.5; 60; 7Bet UMi ; 2.08; 3950;occ; 105; 0;46645  
5; 3877.4; 31-JAN-2011 09:22:47; Bright; 58.0; 119; 14Eta Dra ; 2.73; 4700;occ; 116; 0;46645  
6; 4066.8; 31-JAN-2011 09:25:56; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;46645  
7; 4464.3; 31-JAN-2011 09:32:34; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;46645  
8; 4679.7; 31-JAN-2011 09:36:09; Bright; 44.5; 127; 27Bet Her ; 2.78; 4700;occ; 89; 0;46645  
9; 4773.3; 31-JAN-2011 09:37:43; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;46645  
10; 5287.0; 31-JAN-2011 09:46:16; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;46645  
11; 5543.3; 31-JAN-2011 09:50:33; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;46645  
12; 5625.2; 31-JAN-2011 09:51:55; Dark ; 46.0; 158; 6Pi Sco ; 2.91; 28000;occ; 92; 0;46645  
13; 5888.9; 31-JAN-2011 09:56:18; Dark ; 45.0; 131; Gam Lup ; 2.80; 26000;occ; 90; 0;46645  
14; 6021.3; 31-JAN-2011 09:58:31; Dark ; 47.5; 109; Bet Lup ; 2.68; 26000;occ; 95; 0;46646  
15; 6117.4; 31-JAN-2011 10:00:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46646  
16; 6271.7; 31-JAN-2011 10:02:41; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46646  
17; 6474.9; 31-JAN-2011 10:06:04; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;46646  
18; 6594.0; 31-JAN-2011 10:08:03; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46646  
19; 6817.5; 31-JAN-2011 10:11:47; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46646  
20; 7083.0; 31-JAN-2011 10:16:12; Dark ; 49.5; 65; Lam Vel ; 2.20; 4400;occ; 99; 0;46646  
21; 7470.0; 31-JAN-2011 10:22:40; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;46646

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2; 2380.4; 31-JAN-2011 10:38:04; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;46646  
3; 3270.2; 31-JAN-2011 10:52:54; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;46646  
4; 3595.7; 31-JAN-2011 10:58:19; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46646  
5; 3877.2; 31-JAN-2011 11:03:01; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46646  
6; 4066.8; 31-JAN-2011 11:06:10; Bright; 55.0; 130; 23Bet Dra ; 2.80; 5800;occ; 110; 0;46646  
7; 4464.3; 31-JAN-2011 11:12:48; Bright; 62.0; 133; 40Zet Her ; 2.81; 6000;occ; 124; 0;46646  
8; 4680.0; 31-JAN-2011 11:16:23; Bright; 66.0; 127; 27Bet Her ; 2.78; 4700;occ; 132; 0;46646  
9; 4773.5; 31-JAN-2011 11:17:57; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;46646  
10; 4901.2; 31-JAN-2011 11:20:05; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 0;46646  
11; 5287.4; 31-JAN-2011 11:26:31; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;46646  
12; 5544.0; 31-JAN-2011 11:30:47; Dark ; 58.5; 16; 21Alp Sco ; 1.02; 3000;occ; 117; 0;46646  
13; 5626.2; 31-JAN-2011 11:32:10; Dark ; 45.5; 158; 6Pi Sco ; 2.91; 28000;occ; 91; 0;46646  
14; 5889.6; 31-JAN-2011 11:36:33; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46646  
15; 6022.3; 31-JAN-2011 11:38:46; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46647  
16; 6118.1; 31-JAN-2011 11:40:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46647  
17; 6272.4; 31-JAN-2011 11:42:56; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;46647  
18; 6475.6; 31-JAN-2011 11:46:19; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;46647  
19; 6594.8; 31-JAN-2011 11:48:18; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;46647  
20; 6817.9; 31-JAN-2011 11:52:01; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;46647  
21; 7083.3; 31-JAN-2011 11:56:27; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;46647  
22; 7470.3; 31-JAN-2011 12:02:54; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;46647

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1; 1498.5; 31-JAN-2011 13:43:50; Dark ; 0.5; 132; 15Rho Pup ; 2.80; 6900;occ; 1; 84;46648  
2; 1731.6; 31-JAN-2011 13:47:43; Dark ; 28.0; 48; 30Alp Hya ; 1.98; 4100;occ; 56; 0;46648



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1;	1070.9;	31-JAN-2011	18:37:24;	Dark ;	49.0;	65;	Lam Vel ;	2.20;	4400;occ;	98;	0;46651
2;	1456.9;	31-JAN-2011	18:43:50;	Dark ;	44.0;	132;	15Rho Pup ;	2.80;	6900;occ;	88;	0;46651
3;	1731.3;	31-JAN-2011	18:48:25;	Dark ;	34.0;	48;	30Alp Hya ;	1.98;	4100;occ;	68;	0;46651
4;	1980.4;	31-JAN-2011	18:52:34;	Dark ;	52.0;	8;	10Alp CMi ;	0.40;	6500;occ;	104;	0;46651
5;	2379.8;	31-JAN-2011	18:59:13;	Bright;	41.0;	17;	78Bet Gem ;	1.16;	4500;occ;	82;	0;46651
6;	3267.0;	31-JAN-2011	19:14:01;	Bright;	47.0;	36;	50Alp UMa ;	1.80;	6300;occ;	94;	0;46651
7;	3594.5;	31-JAN-2011	19:19:28;	Bright;	41.5;	60;	7Bet UMi ;	2.08;	3950;occ;	83;	0;46651
8;	3876.5;	31-JAN-2011	19:24:10;	Bright;	40.0;	119;	14Eta Dra ;	2.73;	4700;occ;	80;	0;46651
9;	4066.7;	31-JAN-2011	19:27:20;	Bright;	35.5;	130;	23Bet Dra ;	2.80;	5800;occ;	71;	0;46651
10;	4465.0;	31-JAN-2011	19:33:59;	Bright;	63.0;	133;	40Zet Her ;	2.81;	6000;occ;	126;	0;46651
11;	4681.5;	31-JAN-2011	19:37:35;	Bright;	46.5;	127;	27Bet Her ;	2.78;	4700;occ;	93;	0;46651
12;	4902.8;	31-JAN-2011	19:41:16;	Bright;	50.0;	126;	60Bet Oph ;	2.77;	4250;occ;	100;	0;46651
13;	5289.9;	31-JAN-2011	19:47:43;	Dark ;	44.5;	86;	35Eta Oph ;	2.43;	10200;occ;	89;	0;46651
14;	5547.5;	31-JAN-2011	19:52:01;	Dark ;	53.5;	16;	21Alp Sco ;	1.02;	3000;occ;	107;	0;46651
15;	5630.7;	31-JAN-2011	19:53:24;	Dark ;	47.5;	158;	6Pi Sco ;	2.91;	28000;occ;	95;	0;46651
16;	5893.7;	31-JAN-2011	19:57:47;	Dark ;	44.0;	131;	Gam Lup ;	2.80;	26000;occ;	88;	0;46651
17;	6026.7;	31-JAN-2011	20:00:00;	Dark ;	44.5;	109;	Bet Lup ;	2.68;	26000;occ;	89;	0;46652
18;	6121.7;	31-JAN-2011	20:01:35;	Dark ;	59.5;	0;	; 0.00;	0;occ;	119;	0;46652	
19;	6275.4;	31-JAN-2011	20:04:09;	Dark ;	41.5;	10;	Bet Cen ;	0.61;	28000;occ;	83;	0;46652
20;	6478.4;	31-JAN-2011	20:07:32;	Dark ;	40.5;	12;	Alp1Cru ;	0.77;	30000;occ;	81;	0;46652
21;	6598.7;	31-JAN-2011	20:09:32;	Dark ;	46.0;	99;	Del Cen ;	2.58;	26000;occ;	92;	0;46652
22;	6821.1;	31-JAN-2011	20:13:15;	Dark ;	44.0;	113;	Mu Vel ;	2.69;	5000;occ;	88;	0;46652