

# GOMOS Daily Report 28-JAN-2009

## 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	01FEB2009 05:43:14
Data source version	GOMOS/5.00
Start time of products	28JAN2009 00:05:31
Stop time of products	28JAN2009 02:40:45
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

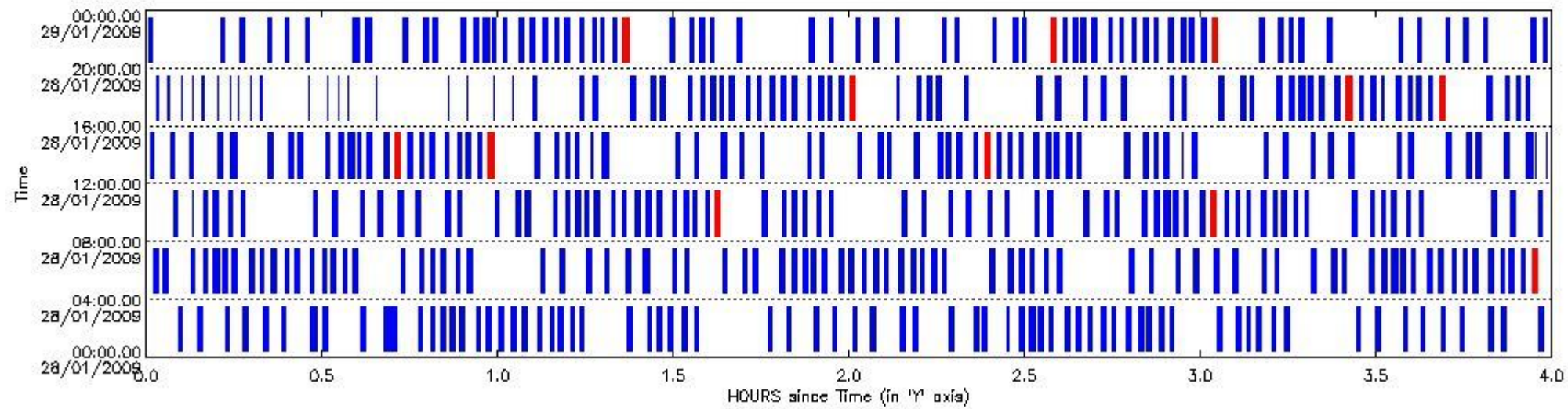
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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).



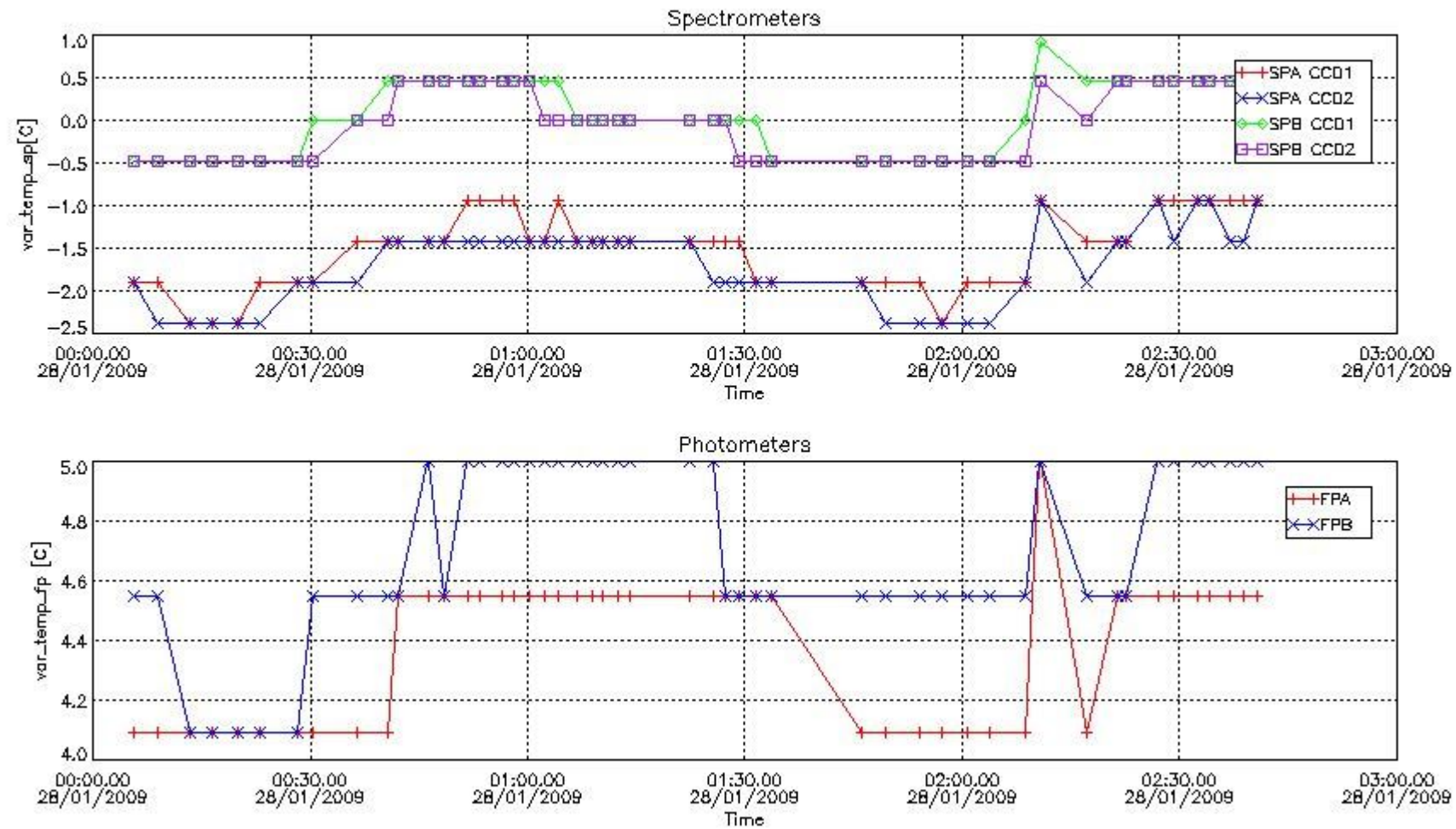
### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
28-JAN-2009 07:56:35	24Omi2CMa	179	36147
28-JAN-2009 09:37:11	24Omi2CMa	179	36148
28-JAN-2009 11:01:52	DelCen	99	36149
28-JAN-2009 12:42:29	DelCen	99	36150
28-JAN-2009 12:58:24	24Omi2CMa	179	36150
28-JAN-2009 14:23:06	DelCen	99	36151
28-JAN-2009 18:00:12	24Omi2CMa	179	36153
28-JAN-2009 19:24:56	DelCen	99	36154
28-JAN-2009 19:40:48	24Omi2CMa	179	36154
28-JAN-2009 21:21:24	24Omi2CMa	179	36155
28-JAN-2009 22:34:23	GamLup	131	36155
28-JAN-2009 23:02:00	24Omi2CMa	179	36156

### 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_1PNPDE20090128_000531_000000372076_00016_36142_4972.N1	28-JAN-2009 00:05:31	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	36142	No
2	GOM_TRA_1PNPDE20090128_000851_000000382076_00016_36142_4973.N1	28-JAN-2009 00:08:51	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	36142	No
3	GOM_TRA_1PNPDE20090128_001329_000000412076_00016_36142_4974.N1	28-JAN-2009 00:13:29	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	36142	No
4	GOM_TRA_1PNPDE20090128_001631_000000542076_00016_36142_4975.N1	28-JAN-2009 00:16:31	Bright	54.000	130	23Bet Dra	2.7990	5800.0	108	36142	No
5	GOM_TRA_1PNPDE20090128_002001_000000522076_00016_36142_4976.N1	28-JAN-2009 00:20:01	Bright	52.000	5	3Alp Lyr	0.033000	11000.	104	36142	No
6	GOM_TRA_1PNPDE20090128_002304_000000412076_00016_36142_4977.N1	28-JAN-2009 00:23:04	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	36142	No
7	GOM_TRA_1PNPDE20090128_002807_000000542076_00016_36142_4978.N1	28-JAN-2009 00:28:07	Bright	54.000	59	55Alp Oph	2.0800	8900.0	108	36142	No
8	GOM_TRA_1PNPDE20090128_003014_000000412076_00016_36142_4979.N1	28-JAN-2009 00:30:14	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	36142	No
9	GOM_TRA_1PNPDE20090128_003633_000000442076_00016_36142_4980.N1	28-JAN-2009 00:36:33	Twi_and_stray	43.500	86	35Eta Oph	2.4300	10200.	87	36142	No
10	GOM_TRA_1PNPDE20090128_004041_000000572076_00016_36142_5106.N1	28-JAN-2009 00:40:41	Dark	57.000	16	21Alp Sco	1.0200	3000.0	114	36142	No
11	GOM_TRA_1PNPDE20090128_004201_000000442076_00016_36142_5107.N1	28-JAN-2009 00:42:01	Dark	44.000	75	26Eps Sco	2.2910	4250.0	88	36142	No
12	GOM_TRA_1PNPDE20090128_004623_000000412076_00016_36142_5108.N1	28-JAN-2009 00:46:23	Dark	41.000	131	Gam Lup	2.8000	26000.	82	36142	No
13	GOM_TRA_1PNPDE20090128_004831_000000422076_00016_36142_5109.N1	28-JAN-2009 00:48:31	Dark	42.000	109	Bet Lup	2.6770	26000.	84	36142	No
14	GOM_TRA_1PNPDE20090128_005146_000000552076_00017_36143_5110.N1	28-JAN-2009 00:51:46	Dark	55.000	4	Alp1Cen	-0.010000	5800.0	110	36143	No
15	GOM_TRA_1PNPDE20090128_005330_000000422076_00017_36143_5111.N1	28-JAN-2009 00:53:30	Dark	41.500	77	Eps Cen	2.3030	28000.	83	36143	No
16	GOM_TRA_1PNPDE20090128_005622_000000432076_00017_36143_5112.N1	28-JAN-2009 00:56:22	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	36143	No
17	GOM_TRA_1PNPDE20090128_005809_000000442076_00017_36143_5113.N1	28-JAN-2009 00:58:09	Dark	44.000	99	Del Cen	2.5750	26000.	88	36143	No
18	GOM_TRA_1PNPDE20090128_010009_000000452076_00017_36143_5114.N1	28-JAN-2009 01:00:09	Dark	45.000	29	Bet Car	1.6720	10200.	90	36143	No
19	GOM_TRA_1PNPDE20090128_010226_000000452076_00017_36143_5115.N1	28-JAN-2009 01:02:26	Dark	45.000	71	lot Car	2.2460	7700.0	90	36143	No
20	GOM_TRA_1PNPDE20090128_010412_000000442076_00017_36143_5116.N1	28-JAN-2009 01:04:12	Dark	43.500	46	Del Vel	1.9540	10600.	87	36143	No
21	GOM_TRA_1PNPDE20090128_010646_000000382076_00017_36143_5117.N1	28-JAN-2009 01:06:46	Dark	38.000	34	Gam2Vel	1.7930	23000.	76	36143	No
22	GOM_TRA_1PNPDE20090128_010852_000000402076_00017_36143_5118.N1	28-JAN-2009 01:08:52	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	36143	No
23	GOM_TRA_1PNPDE20090128_011018_000000452076_00017_36143_5119.N1	28-JAN-2009 01:10:18	Straylight	44.500	117	Pi Pup	2.7060	3800.0	89	36143	No
24	GOM_TRA_1PNPDE20090128_011222_000000412076_00017_36143_5120.N1	28-JAN-2009 01:12:22	Straylight	40.500	88	31Eta CMa	2.4480	20000.	81	36143	No
25	GOM_TRA_1PNPDE20090128_011408_000000382076_00017_36143_5121.N1	28-JAN-2009 01:14:08	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	36143	No
26	GOM_TRA_1PNPDE20090128_012214_000000462076_00017_36143_5122.N1	28-JAN-2009 01:22:14	Twi_and_stray	45.500	8	10Alp CMi	0.40000	6500.0	91	36143	No
27	GOM_TRA_1PNPDE20090128_012533_000000362076_00017_36143_5123.N1	28-JAN-2009 01:25:33	Bright	36.000	44	24Gam Gem	1.9280	11000.	72	36143	No
28	GOM_TRA_1PNPDE20090128_012721_000000392076_00017_36143_5124.N1	28-JAN-2009 01:27:21	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	36143	No
29	GOM_TRA_1PNPDE20090128_012904_000000442076_00017_36143_5125.N1	28-JAN-2009 01:29:04	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	36143	No
30	GOM_TRA_1PNPDE20090128_013137_000000362076_00017_36143_5126.N1	28-JAN-2009 01:31:37	Bright	36.000	107	37The Aur	2.6490	11000.	72	36143	No
31	GOM_TRA_1PNPDE20090128_013343_000000362076_00017_36143_5127.N1	28-JAN-2009 01:33:43	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	36143	No
32	GOM_TRA_1PNPDE20090128_014607_000000372076_00017_36143_5128.N1	28-JAN-2009 01:46:07	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	36143	No
33	GOM_TRA_1PNPDE20090128_014927_000000402076_00017_36143_5129.N1	28-JAN-2009 01:49:27	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	36143	No
34	GOM_TRA_1PNPDE20090128_015405_000000402076_00017_36143_5130.N1	28-JAN-2009 01:54:05	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	36143	No
35	GOM_TRA_1PNPDE20090128_015707_000000392076_00017_36143_5131.N1	28-JAN-2009 01:57:07	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	36143	No
36	GOM_TRA_1PNPDE20090128_020038_000000362076_00017_36143_5132.N1	28-JAN-2009 02:00:38	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	36143	No
37	GOM_TRA_1PNPDE20090128_020340_000000402076_00017_36143_5133.N1	28-JAN-2009 02:03:40	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	36143	No
38	GOM_TRA_1PNPDE20090128_020843_000000542076_00017_36143_5134.N1	28-JAN-2009 02:08:43	Bright	54.000	59	55Alp Oph	2.0800	8900.0	108	36143	No
39	GOM_TRA_1PNPDE20090128_021050_000000532076_00017_36143_5248.N1	28-JAN-2009 02:10:50	Bright	53.000	126	60Bet Oph	2.7700	4250.0	106	36143	Yes
40	GOM_TRA_1PNPDE20090128_021710_000000442076_00017_36143_5249.N1	28-JAN-2009 02:17:10	Twi_and_stray	44.000	86	35Eta Oph	2.4300	10200.	88	36143	No
41	GOM_TRA_1PNPDE20090128_022118_000000502076_00017_36143_5250.N1	28-JAN-2009 02:21:18	Dark	49.500	16	21Alp Sco	1.0200	3000.0	99	36143	No
42	GOM_TRA_1PNPDE20090128_022237_000000472076_00017_36143_5251.N1	28-JAN-2009 02:22:37	Dark	46.500	75	26Eps Sco	2.2910	4250.0	93	36143	No
43	GOM_TRA_1PNPDE20090128_022701_000000142076_00017_36143_5252.N1	28-JAN-2009 02:27:01	Dark	14.000	131	Gam Lup	2.8000	26000.	28	36143	No
44	GOM_TRA_1PNPDE20090128_022907_000000442076_00017_36143_5253.N1	28-JAN-2009 02:29:07	Dark	44.000	109	Bet Lup	2.6770	26000.	88	36143	No
45	GOM_TRA_1PNPDE20090128_023222_000000422076_00018_36144_5254.N1	28-JAN-2009 02:32:22	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	36144	No
46	GOM_TRA_1PNPDE20090128_023406_000000422076_00018_36144_5255.N1	28-JAN-2009 02:34:06	Dark	42.000	77	Eps Cen	2.3030	28000.	84	36144	No
47	GOM_TRA_1PNPDE20090128_023658_000000412076_00018_36144_5256.N1	28-JAN-2009 02:36:58	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	36144	No
48	GOM_TRA_1PNPDE20090128_023845_000000432076_00018_36144_5257.N1	28-JAN-2009 02:38:45	Dark	43.000	99	Del Cen	2.5750	26000.	86	36144	No
49	GOM_TRA_1PNPDE20090128_024045_000000372076_00018_36144_5258.N1	28-JAN-2009 02:40:45	Dark	37.000	29	Bet Car	1.6720	10200.	74	36144	No

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



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

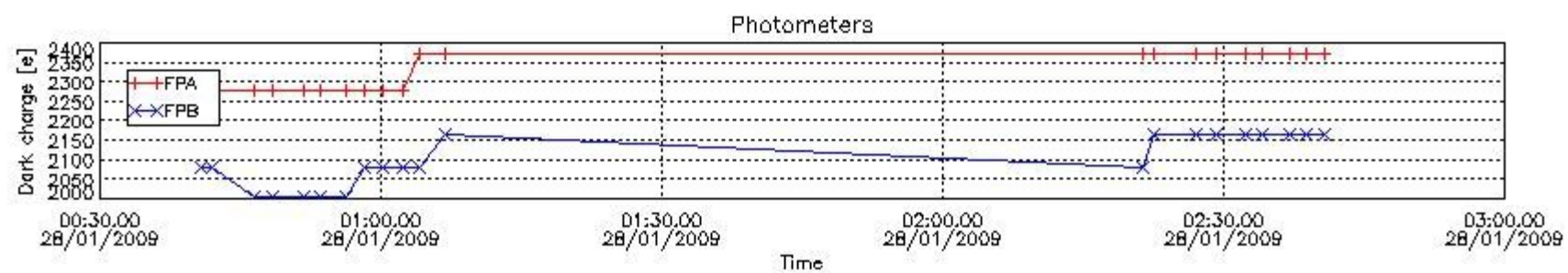
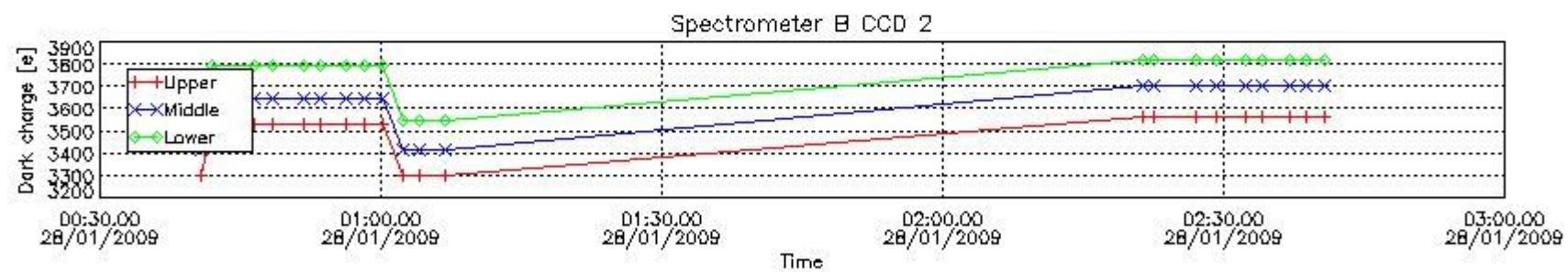
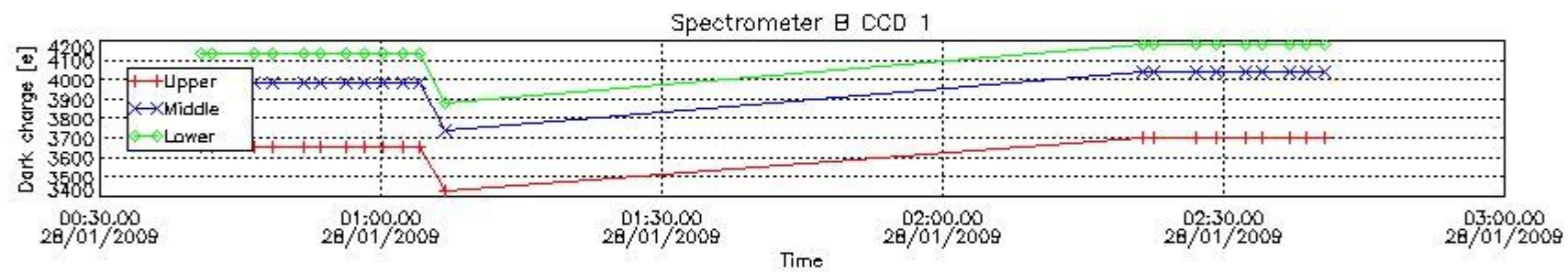
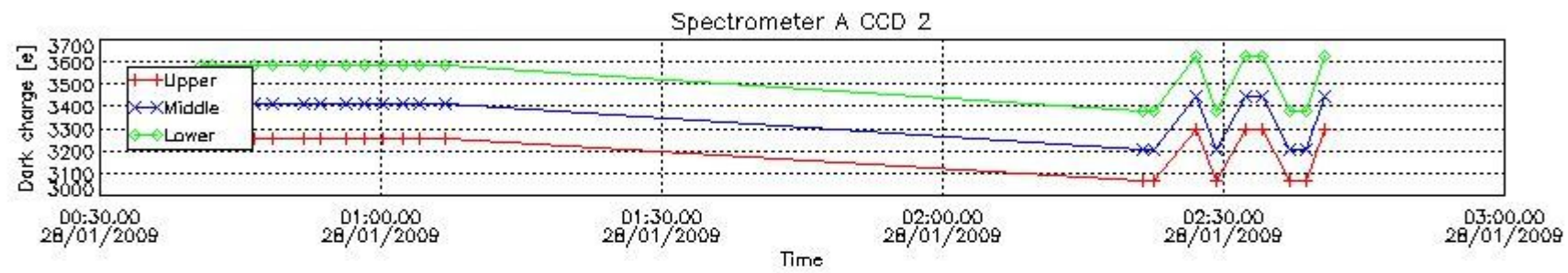
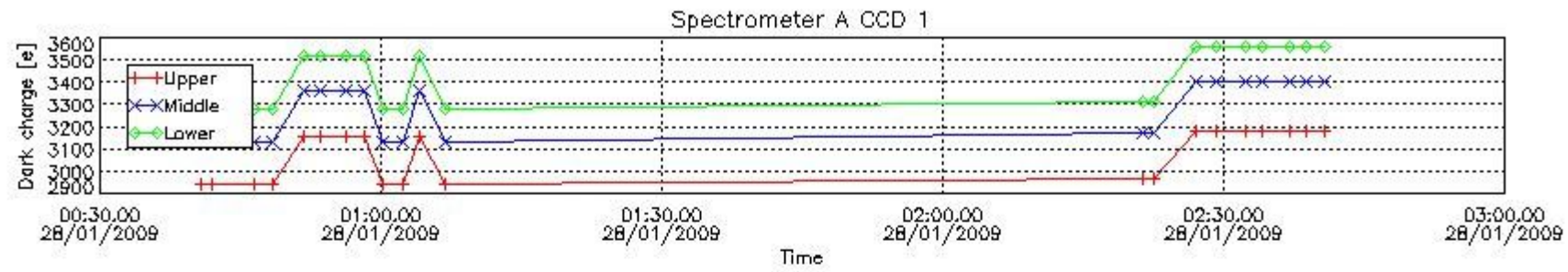
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





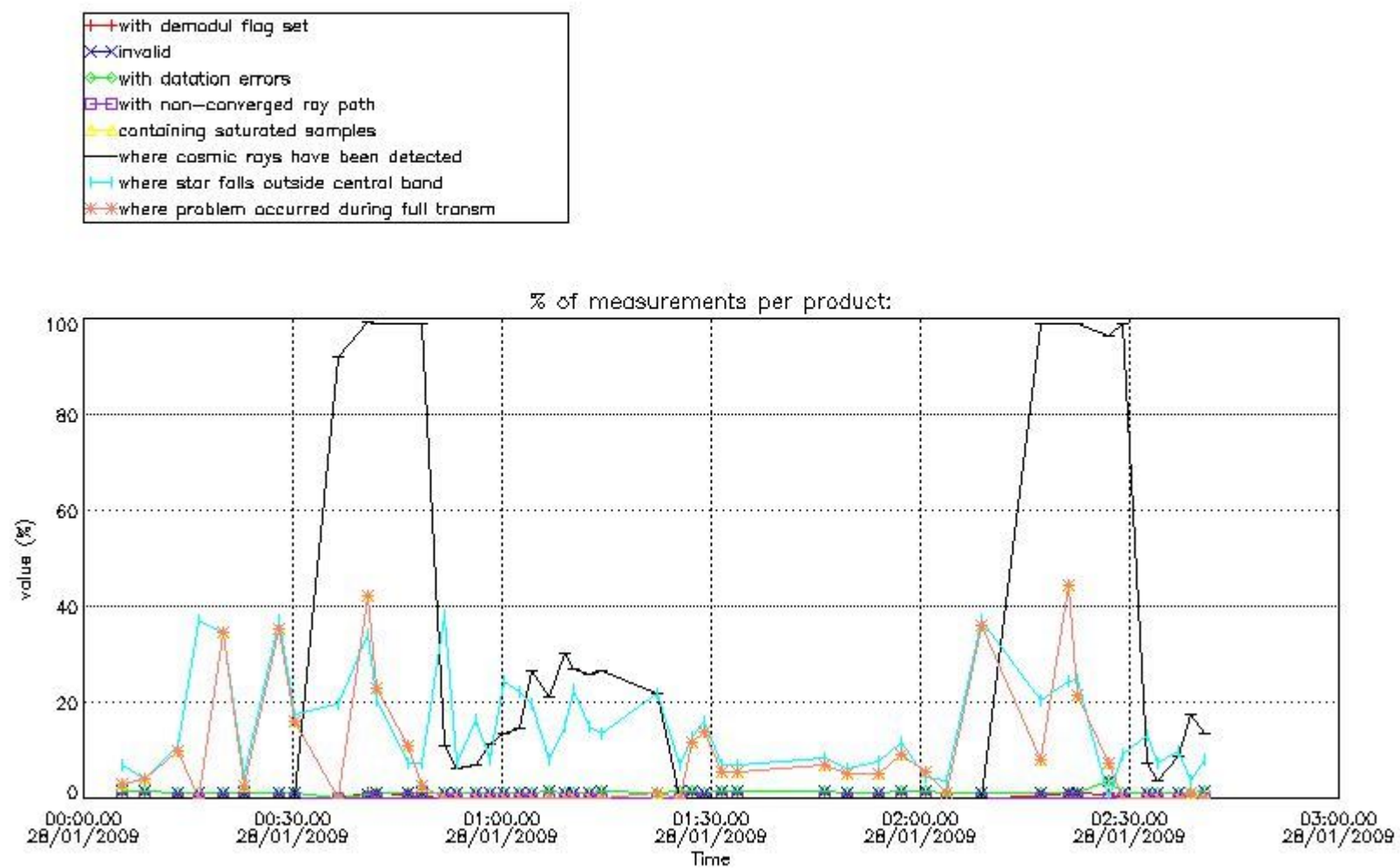
## 5. Demodulation flag and quality information monitoring

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:

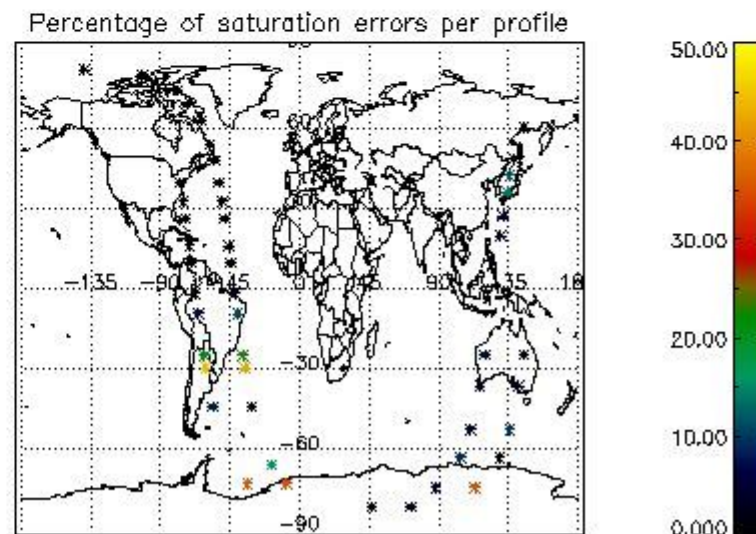
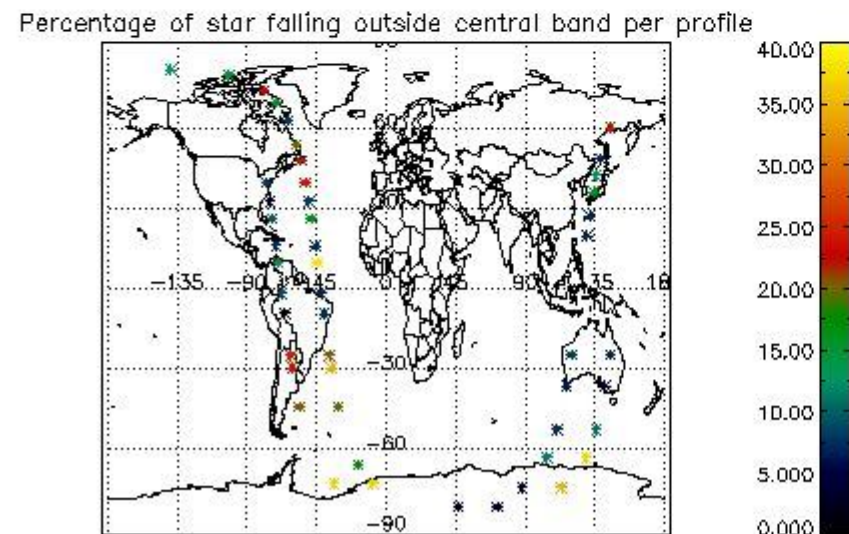
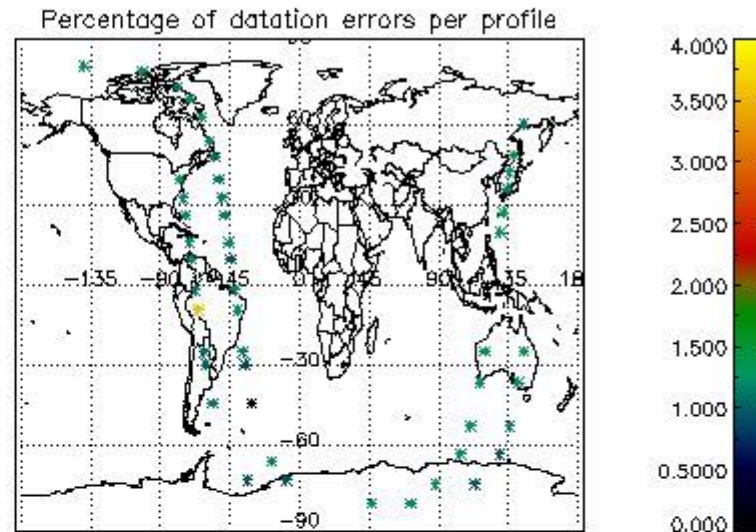
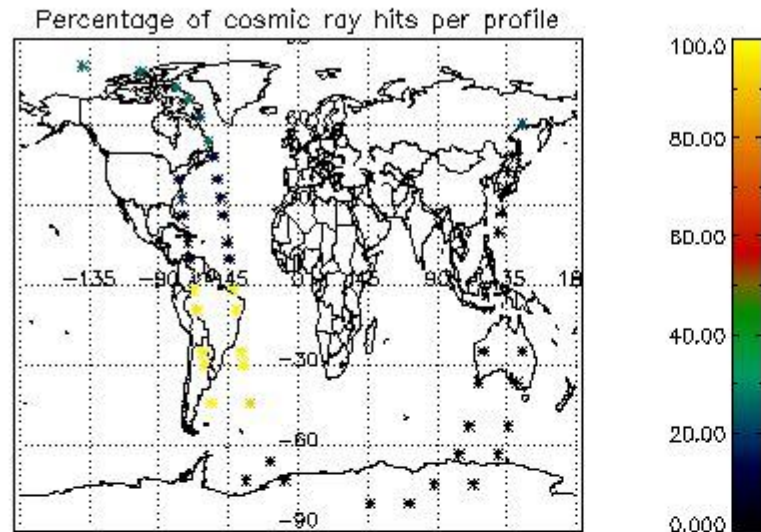
At least one measurement with demodulation flag set:	31.2500 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





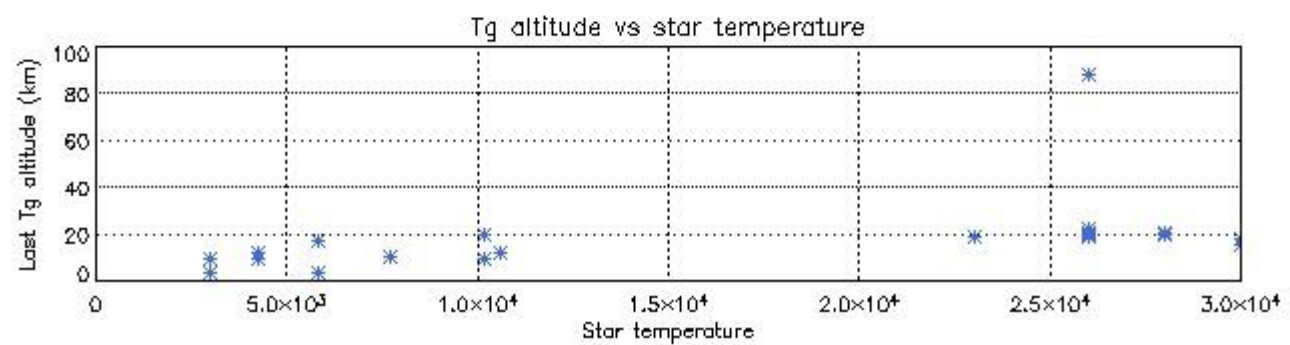
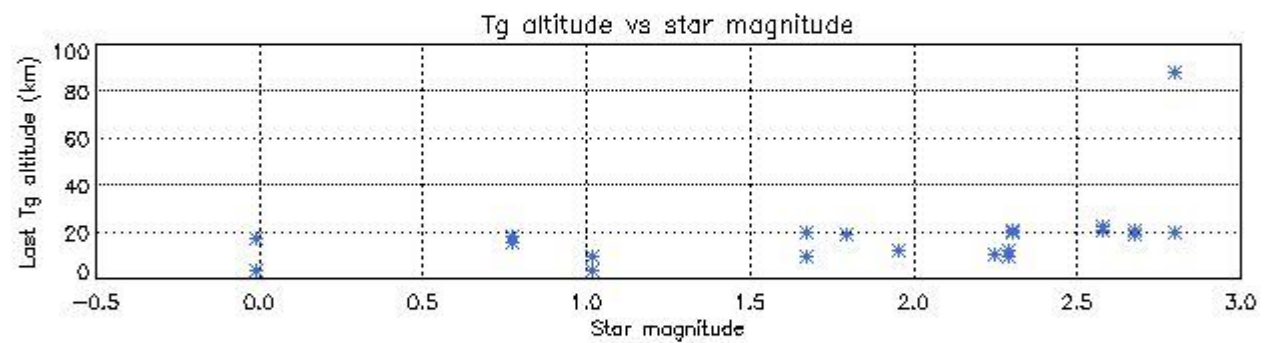
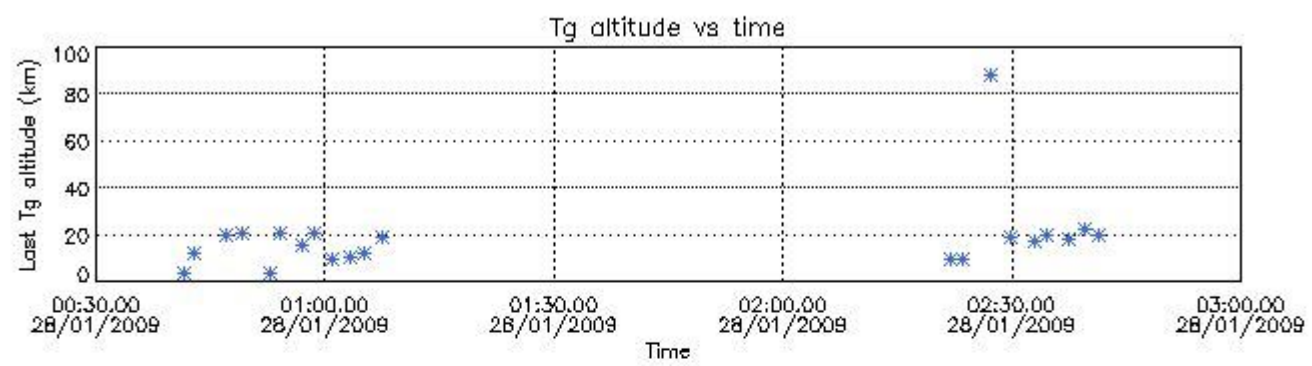
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.508	15.991	NaN
St. deviation:	16.919	6.6694	NaN
Maximum:	87.897	22.832	NaN
Minimum:	3.1239	3.4618	NaN
Number of data:	21.000	20.000	NaN

### 6.2 Plot for DARK limb products

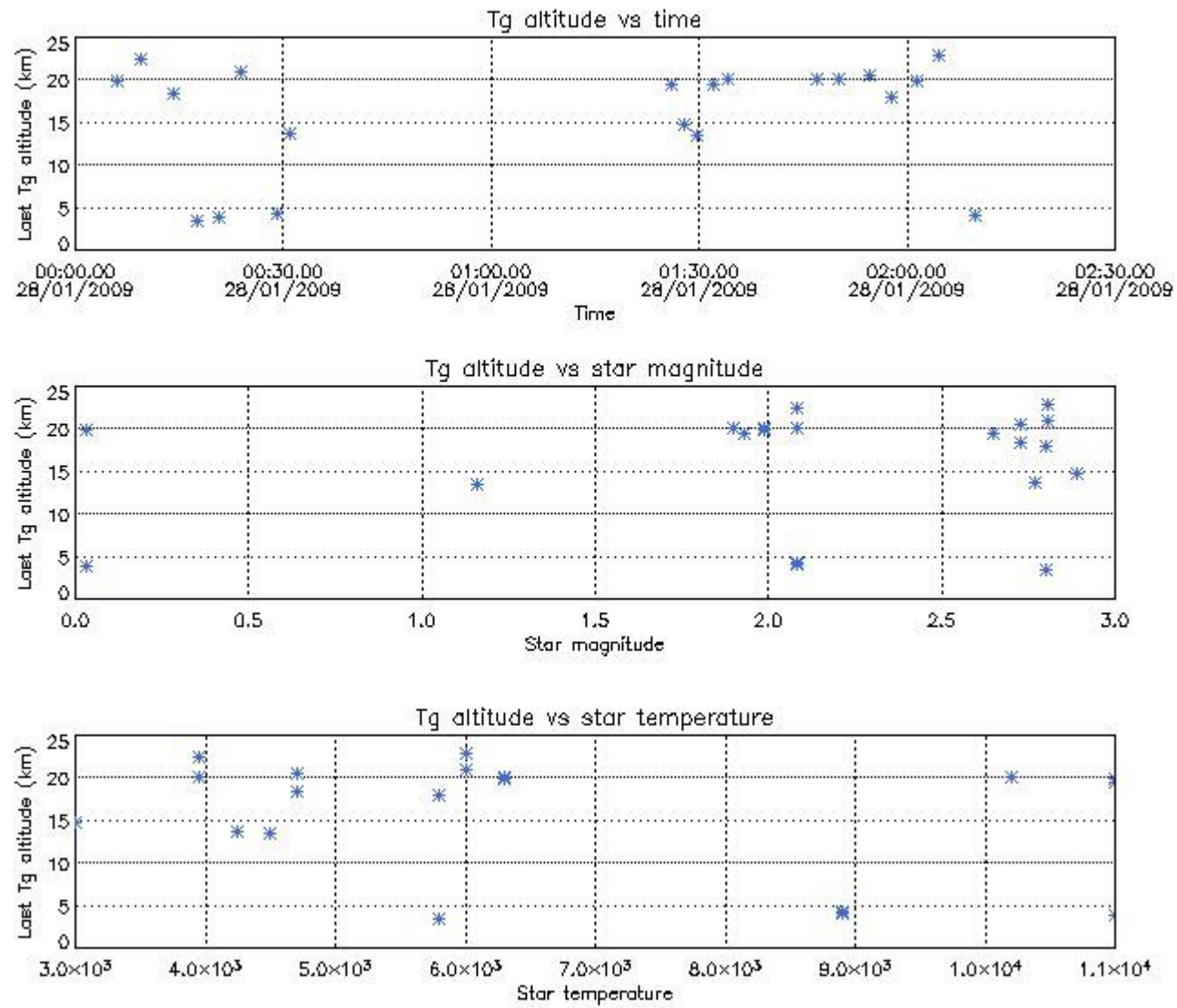
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

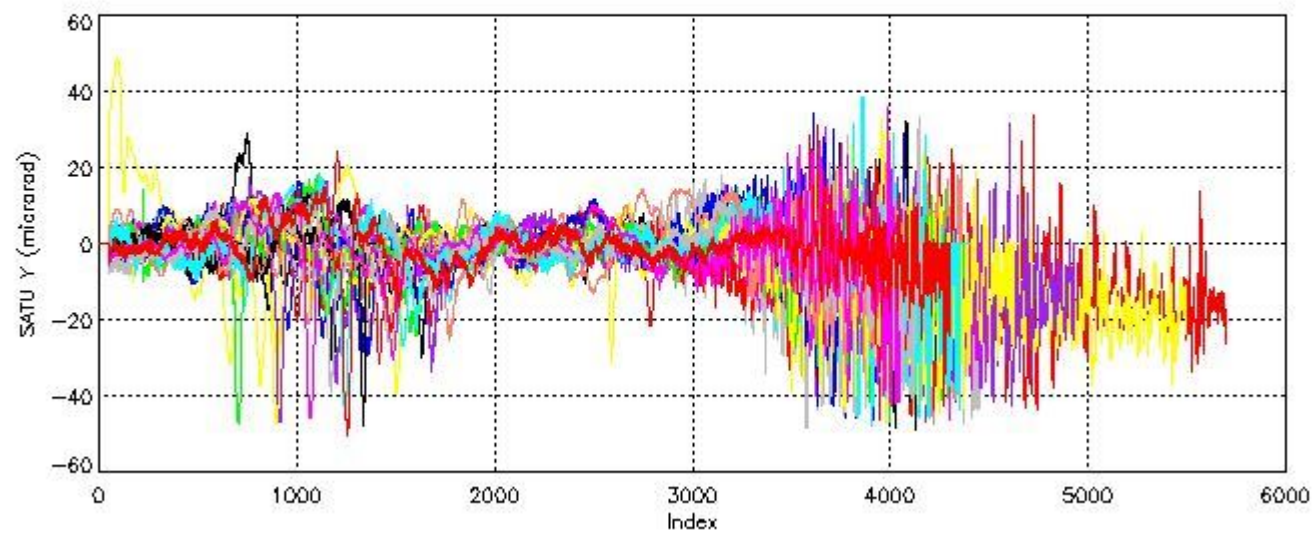
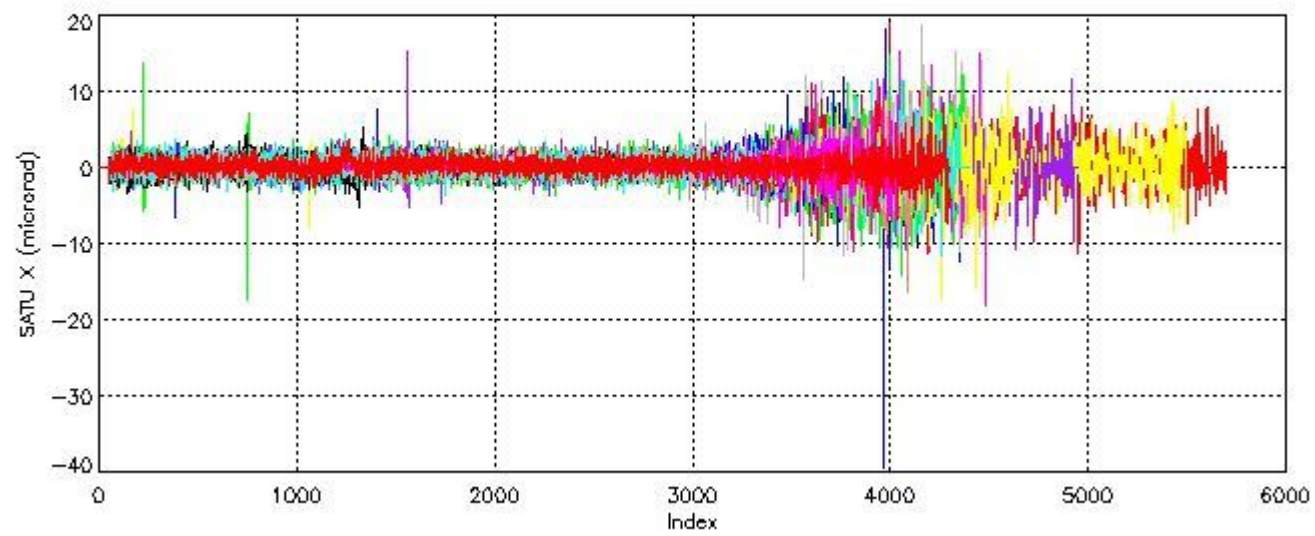


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.14737	1.0382	0.067301	1.2359
St. deviation:	0.62787	5.3943	0.65103	6.5607
Maximum:	7.5000	48.700	4.4000	19.700
Minimum:	-17.400	-46.900	-3.8000	-42.200

Number of data:	19450.	19450.	17200.	17200.
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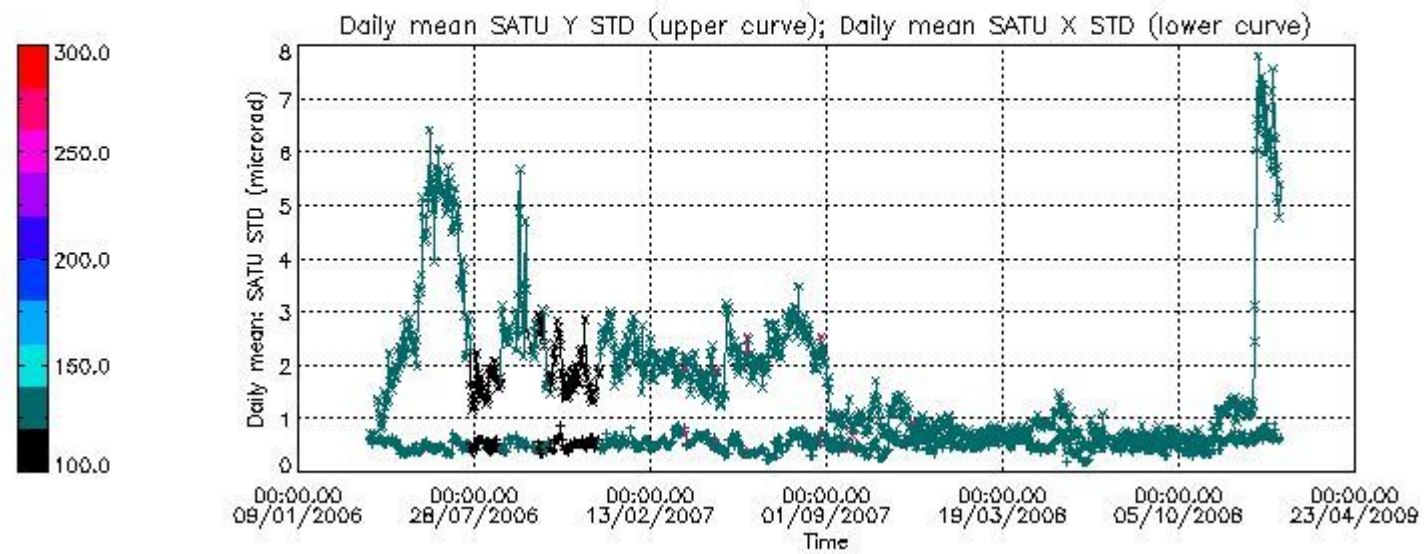
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

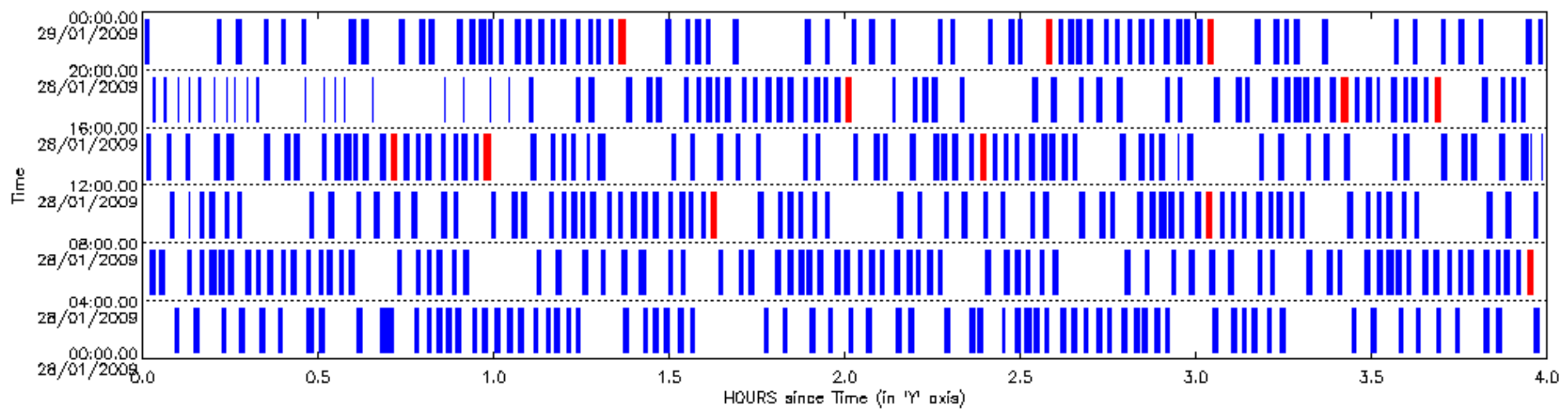


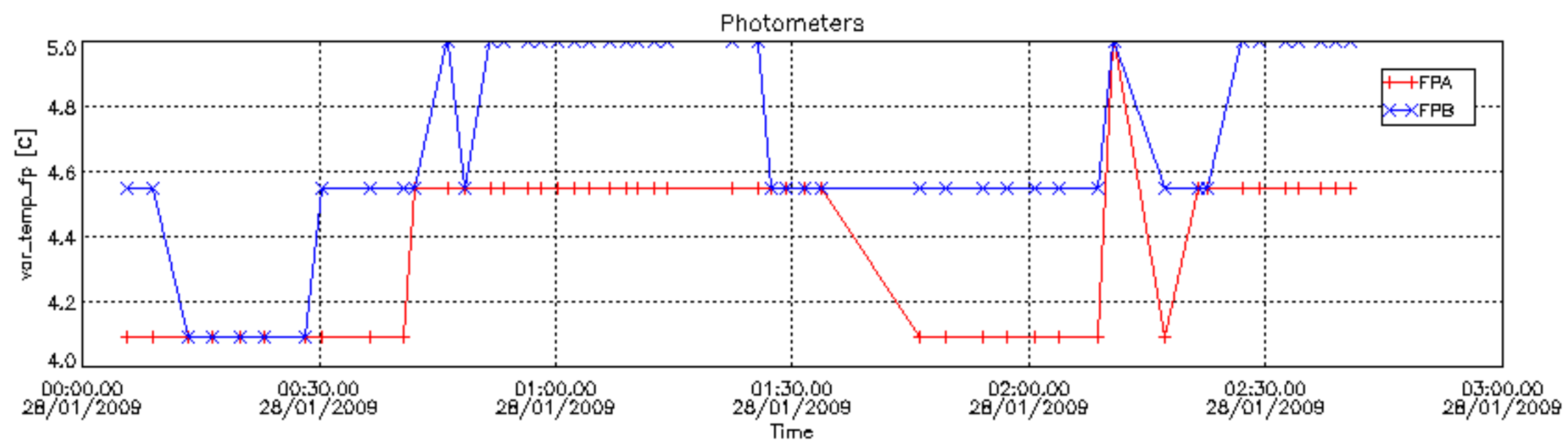
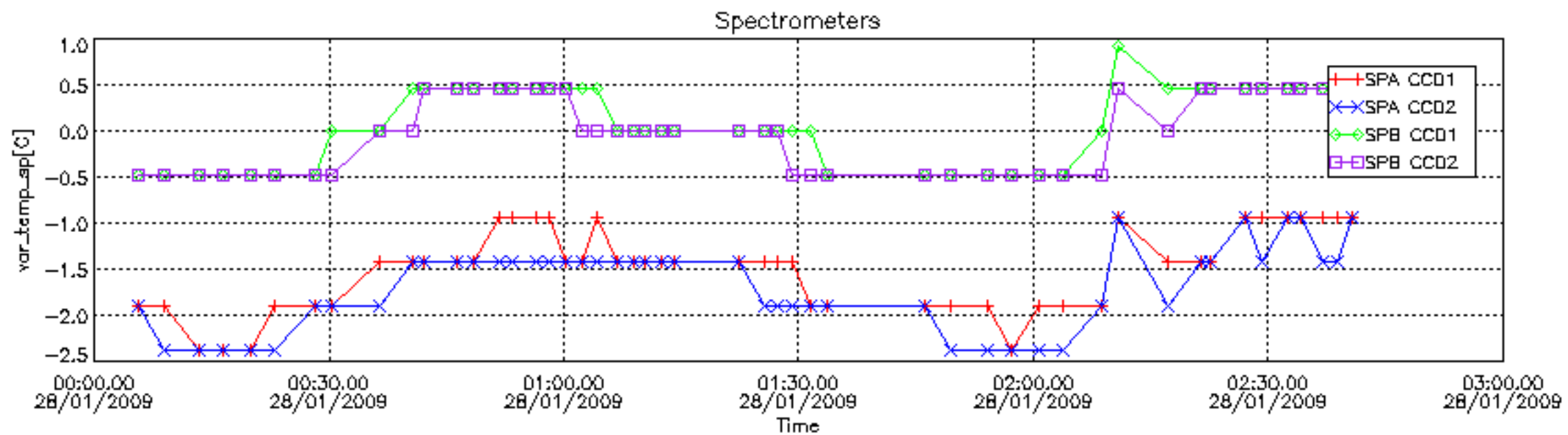
### 8. Auxiliary Data Files used for the production reported in section 2.4

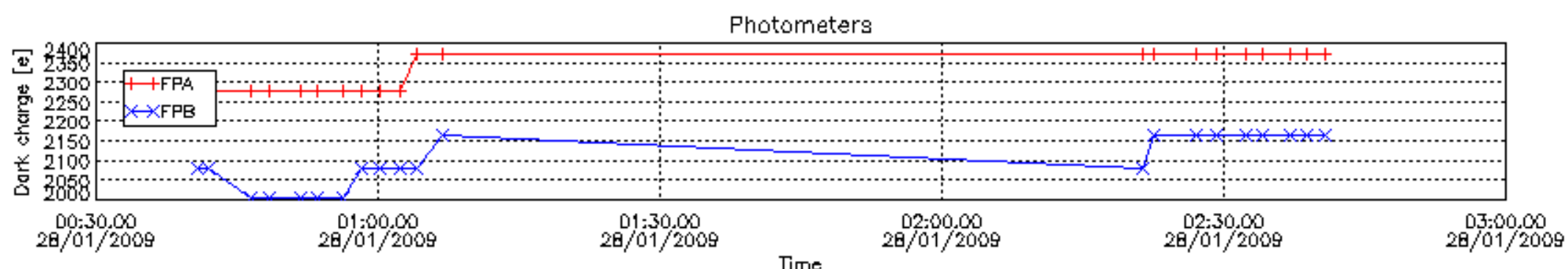
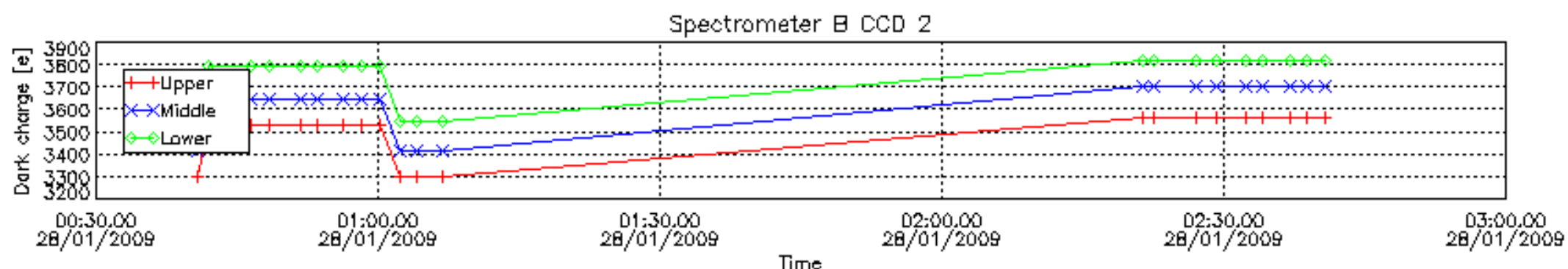
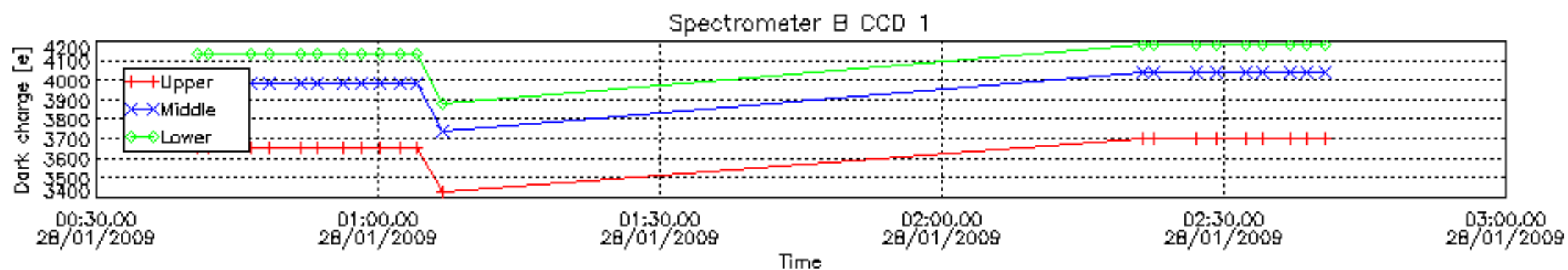
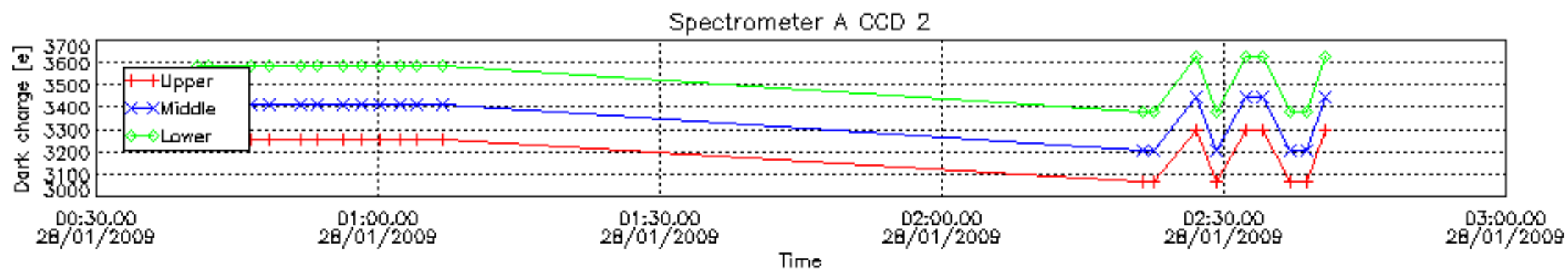
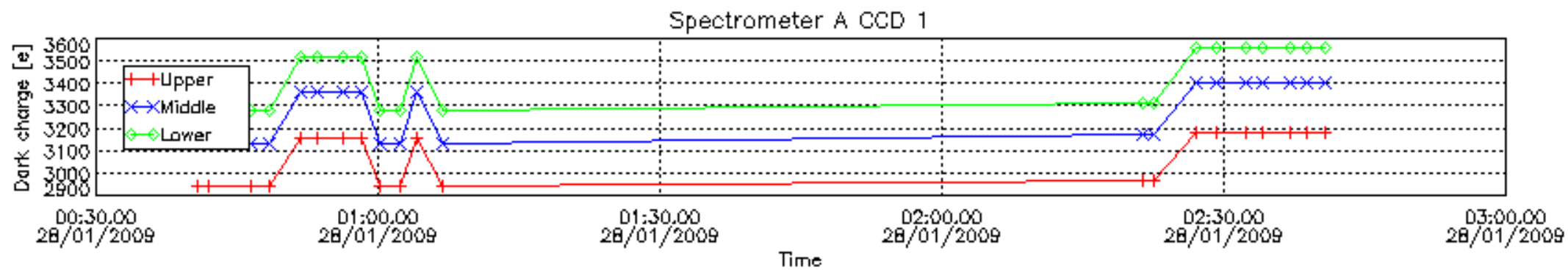
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-JAN-2009 00:05:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	28-JAN-2009 00:05:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-JAN-2009 00:05:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-JAN-2009 00:05:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-JAN-2009 00:05:31
ECMWF_FILE	AUX_ECF_AXNECM20090127_064110_20090127_210000_20090128_090000	1	28-JAN-2009 00:05:31
OPTIONAL_ECMWF_FILE	MISSING	1	28-JAN-2009 00:05:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090127_211134_000057382076_00014_36140_7247.N1	1	28-JAN-2009 00:05:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090127_225232_000057382076_00015_36141_7248.N1	10	28-JAN-2009 00:40:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090128_003329_000054192076_00016_36142_7249.N1	39	28-JAN-2009 02:10:50





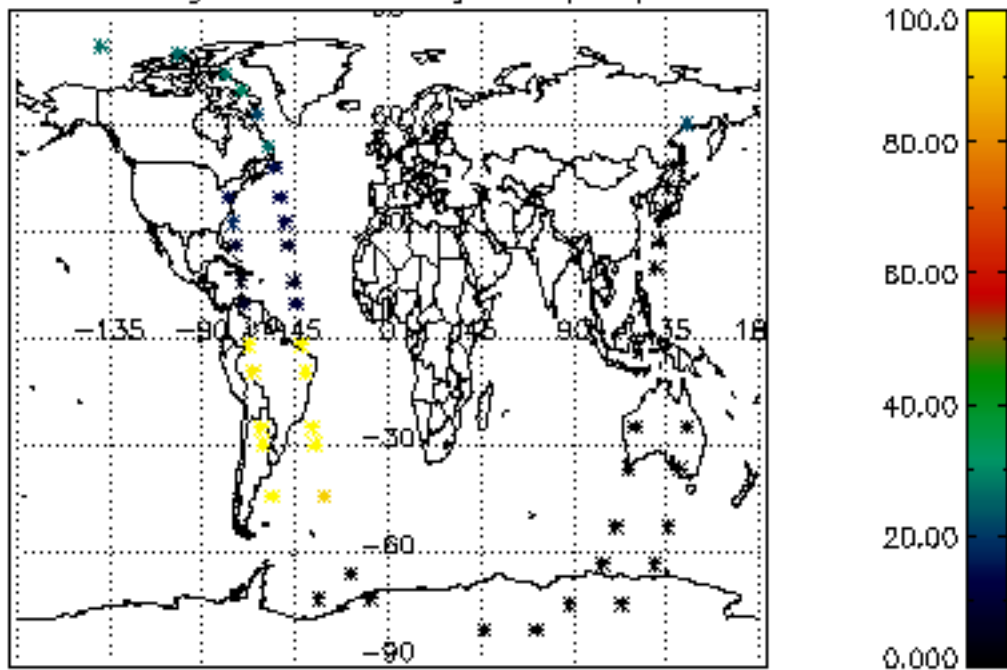




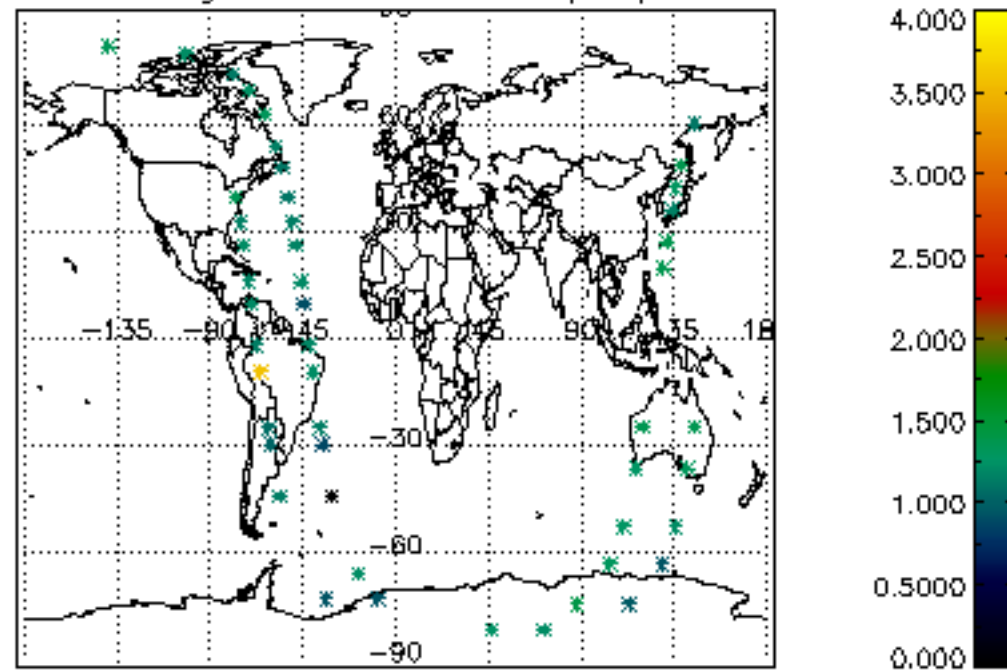




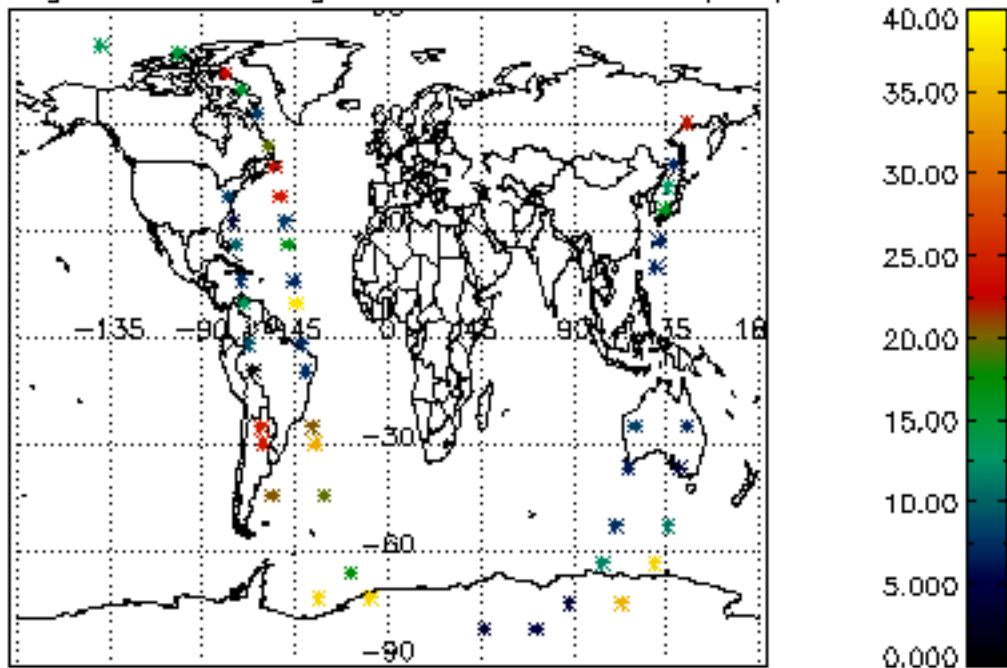
Percentage of cosmic ray hits per profile



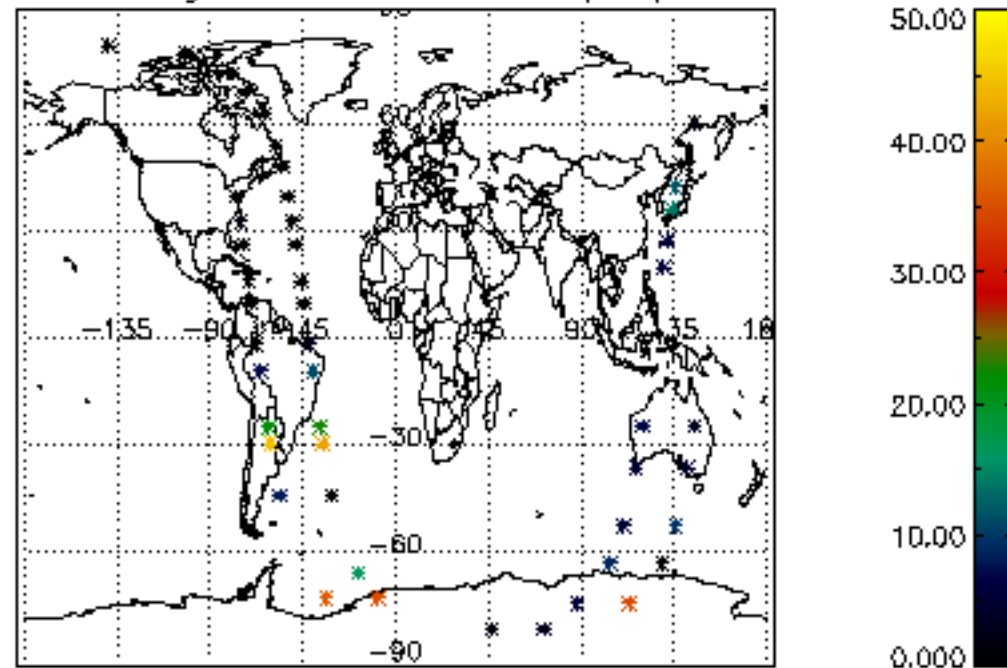
Percentage of datation errors per profile



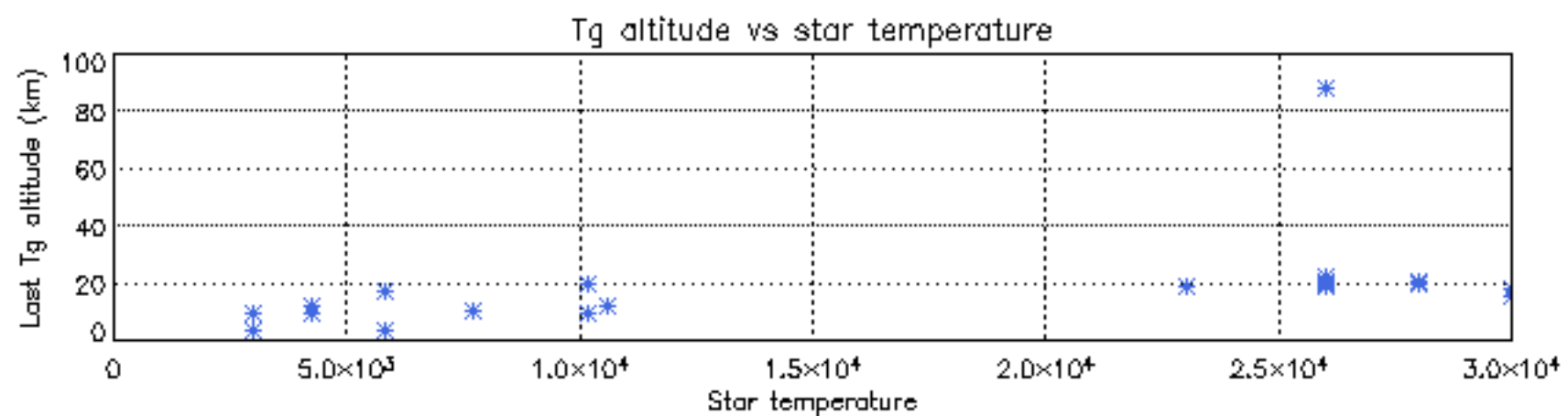
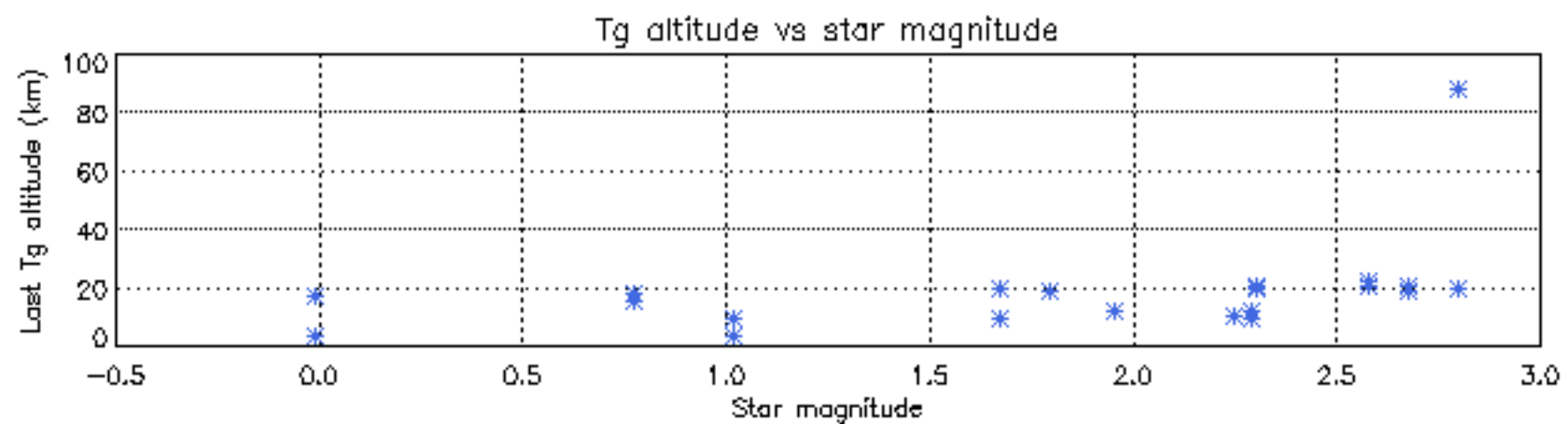
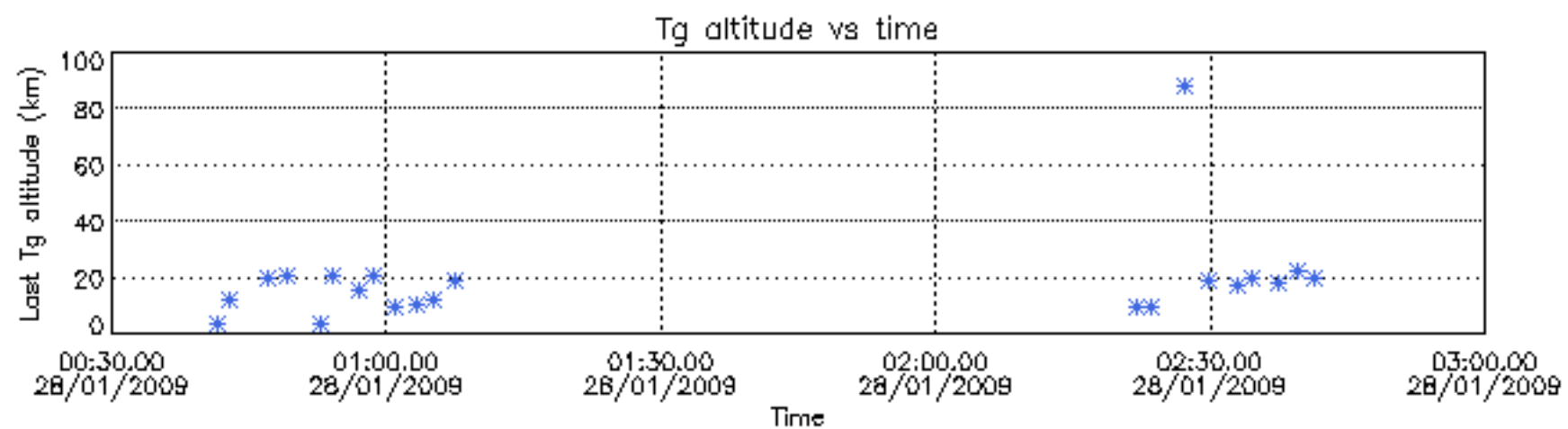
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

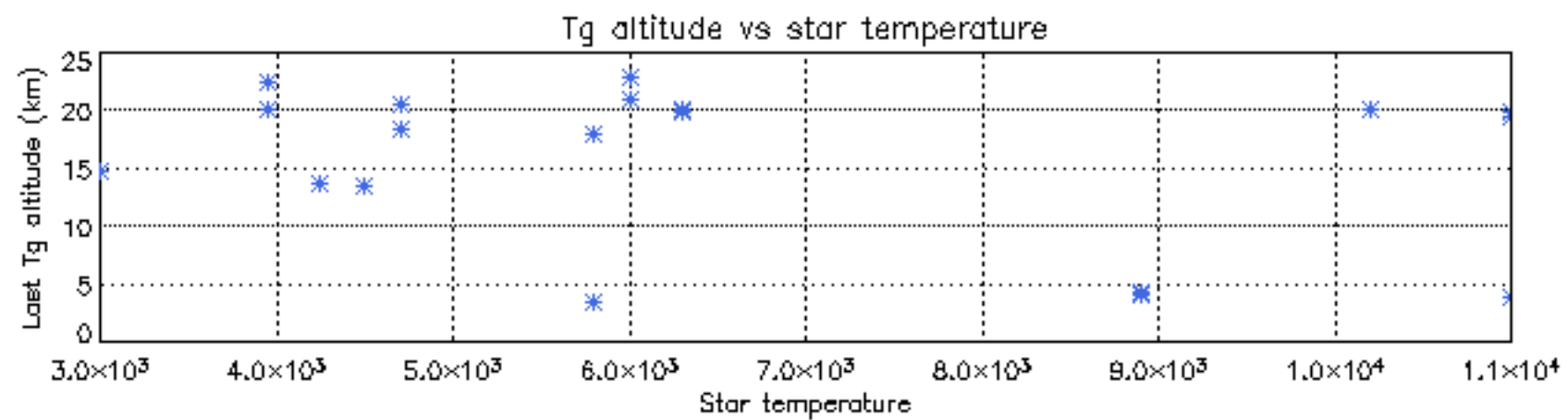
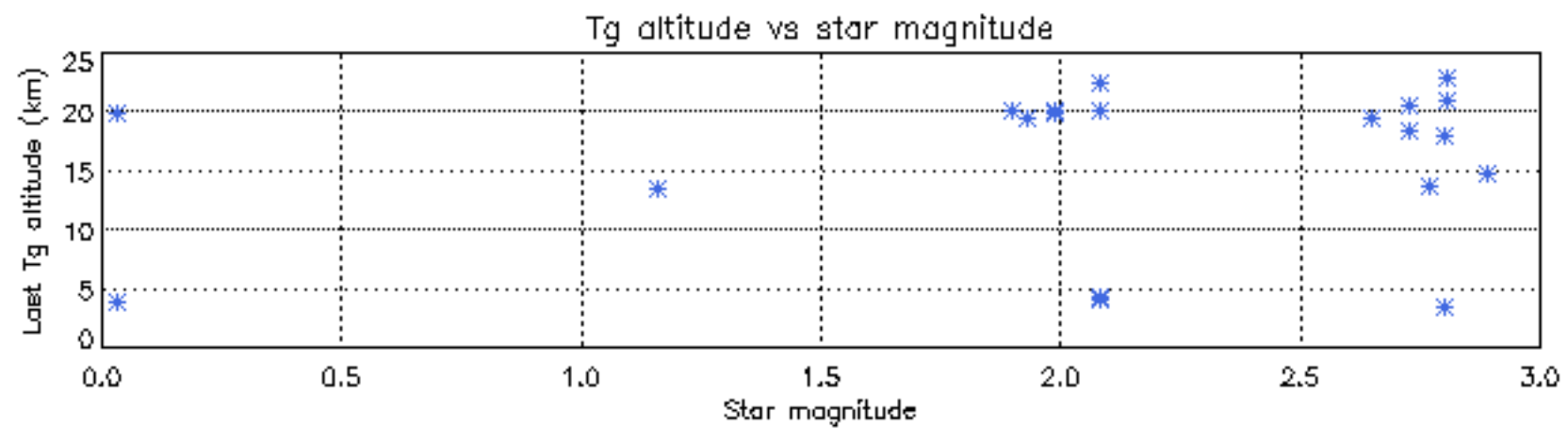
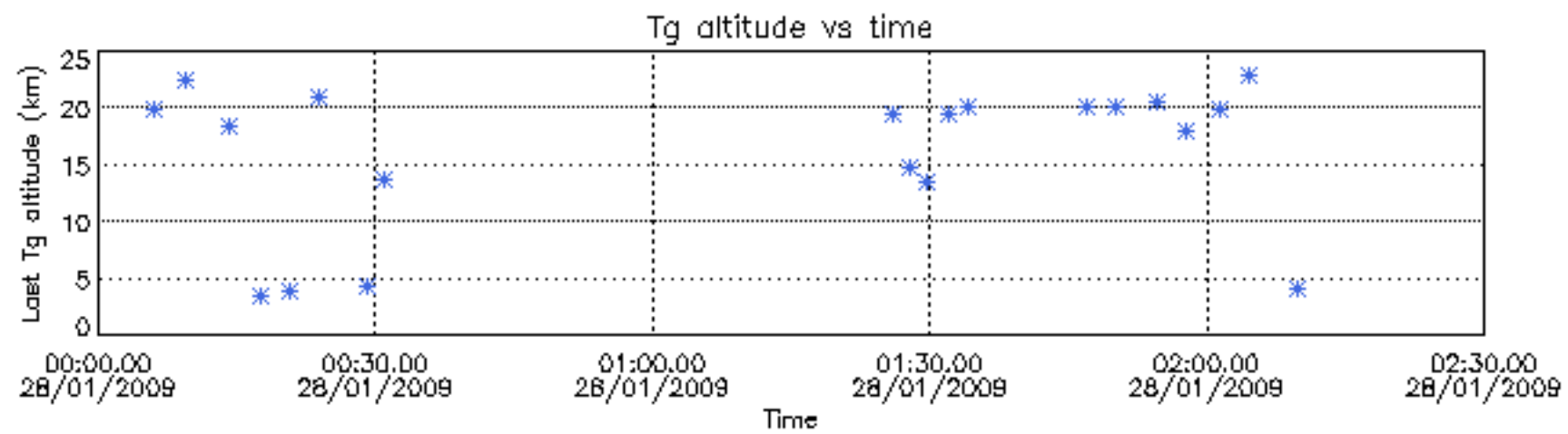


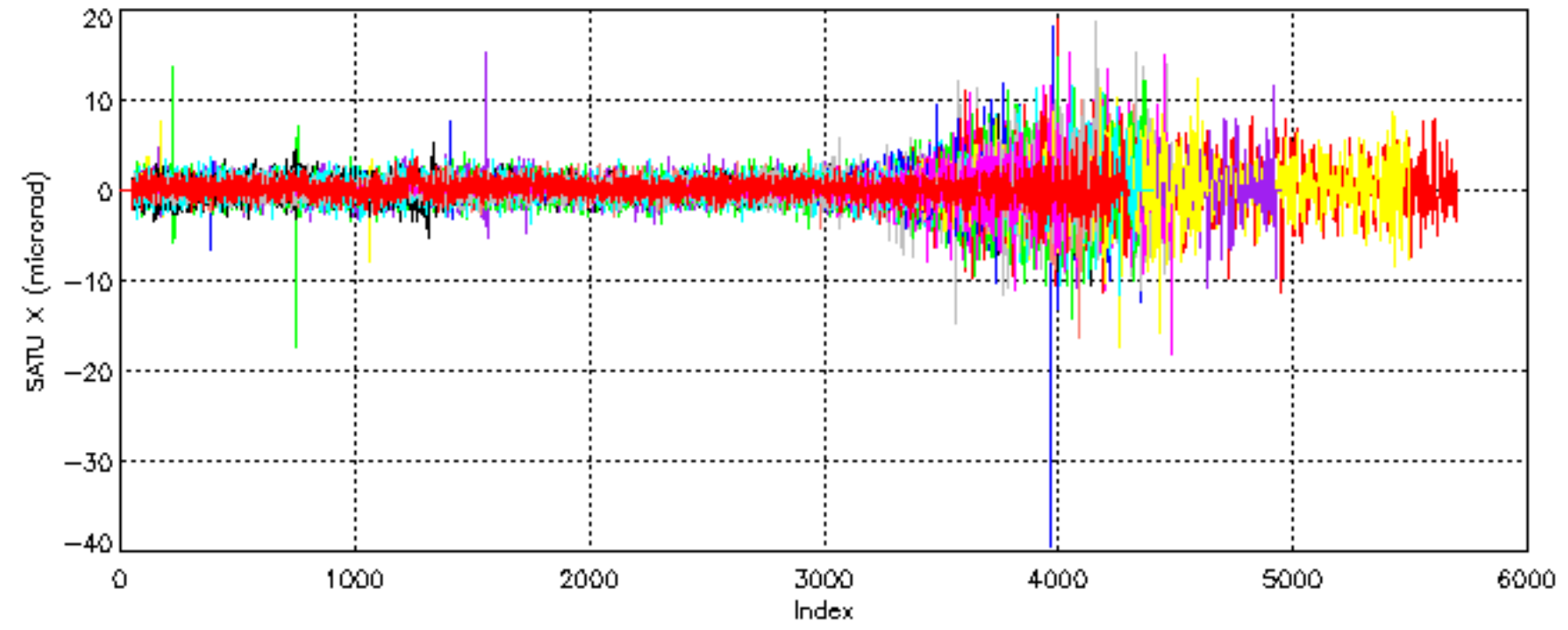
Tangent altitude at which the star is lost

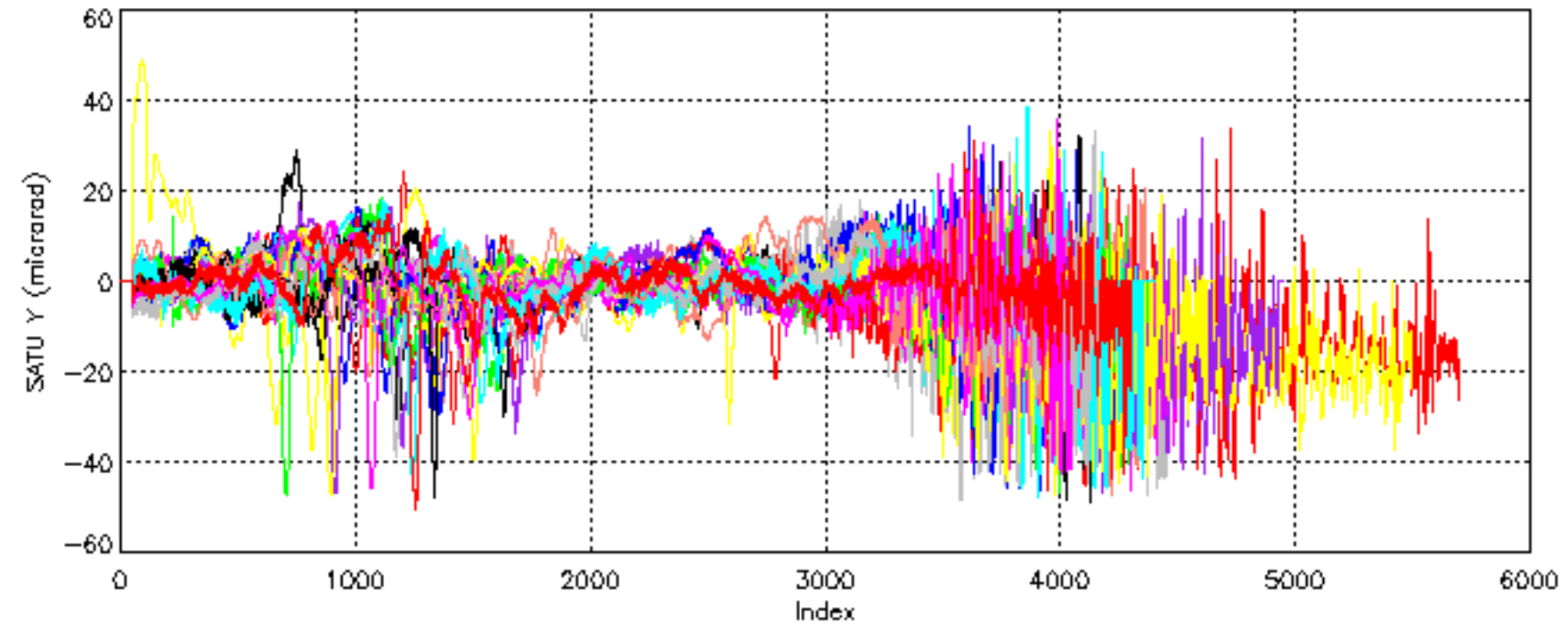




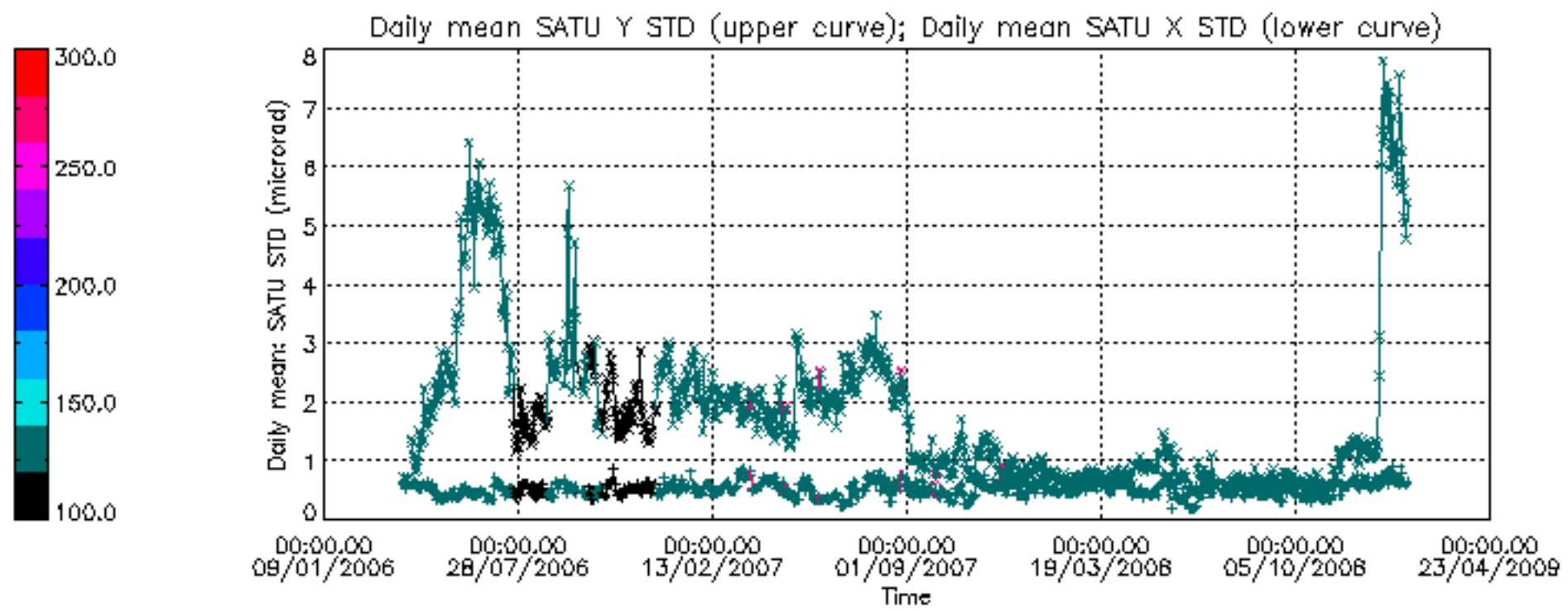
Tangent altitude at which the star is lost











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 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757  
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757  
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757  
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757  
 8; 979.7; 01-JAN-2009 01:54:14; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;35757  
 9; 1174.3; 01-JAN-2009 01:57:29; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35757  
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 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757  
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 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757  
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757  
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757  
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757  
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4; 1345.2; 01-JAN-2009 20:26:55; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;35768
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13; 4577.0; 01-JAN-2009 14:38:23; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;35764
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2; 1588.5; 04-JAN-2009 07:11:56; Dark ; 53.5; 1; 9Alp Cma ;-1.44; 11000;occ; 107; 0;35803  
3; 1777.4; 04-JAN-2009 07:15:04; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;35803  
4; 1885.5; 04-JAN-2009 07:16:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35803  
5; 2031.6; 04-JAN-2009 07:19:19; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;35803  
6; 2268.9; 04-JAN-2009 07:23:16; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;35803  
7; 2396.0; 04-JAN-2009 07:25:23; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;35803  
8; 2475.0; 04-JAN-2009 07:26:42; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;35803  
9; 2556.9; 04-JAN-2009 07:28:04; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35803  
10; 2690.1; 04-JAN-2009 07:30:17; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;35803  
11; 3423.5; 04-JAN-2009 07:42:30; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35803  
12; 3685.2; 04-JAN-2009 07:46:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35803  
13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803  
14; 4056.5; 04-JAN-2009 07:53:04; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;35803  
15; 4429.8; 04-JAN-2009 07:59:17; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;35803  
16; 4555.2; 04-JAN-2009 08:01:22; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35803  
17; 4906.8; 04-JAN-2009 08:07:14; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;35803  
18; 5043.0; 04-JAN-2009 08:09:30; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35803  
19; 5218.9; 04-JAN-2009 08:12:26; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35803  
20; 5385.6; 04-JAN-2009 08:15:13; Dark ; 48.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 97; 0;35803  
21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803  
22; 5779.5; 04-JAN-2009 08:21:47; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35803  
23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803  
24; 5965.2; 04-JAN-2009 08:24:52; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;35803  
25; 6052.1; 04-JAN-2009 08:26:19; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35803  
26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803  
27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803  
28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803  
29; 6601.6; 04-JAN-2009 08:35:29; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;35803  
30; 6693.5; 04-JAN-2009 08:37:01; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;35803  
31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803  
32; 7027.8; 04-JAN-2009 08:42:35; Dark ; 44.0; 2; Alp Car ;-0.74; 7000;occ; 88; 0;35803  
33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803  
34; 7227.1; 04-JAN-2009 08:45:54; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35803  
35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps Cma ; 1.50; 26000;occ; 92; 0;35803  
36; 7481.4; 04-JAN-2009 08:50:08; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35803  
37; 7624.3; 04-JAN-2009 08:52:31; Dark ; 48.0; 1; 9Alp Cma ;-1.44; 11000;occ; 96; 0;35803  
38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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1; 1777.9; 04-JAN-2009 08:55:41; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;35804  
2; 1885.9; 04-JAN-2009 08:57:29; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35804  
3; 2030.8; 04-JAN-2009 08:59:54; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;35804  
4; 2267.9; 04-JAN-2009 09:03:51; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;35804  
5; 2394.5; 04-JAN-2009 09:05:57; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35804  
6; 2474.7; 04-JAN-2009 09:07:18; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35804  
7; 2555.3; 04-JAN-2009 09:08:38; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35804  
8; 2689.5; 04-JAN-2009 09:10:52; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35804  
9; 3423.9; 04-JAN-2009 09:23:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35804  
10; 3685.3; 04-JAN-2009 09:27:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35804  
11; 3923.7; 04-JAN-2009 09:31:27; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;35804



12; 4056.8; 04-JAN-2009 09:33:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;35804  
 13; 4430.3; 04-JAN-2009 09:39:53; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;35804  
 14; 4555.8; 04-JAN-2009 09:41:59; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35804  
 15; 4906.6; 04-JAN-2009 09:47:50; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35804  
 16; 5043.1; 04-JAN-2009 09:50:06; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35804  
 17; 5219.4; 04-JAN-2009 09:53:02; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;35804  
 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804  
 19; 5694.8; 04-JAN-2009 10:00:58; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;35804  
 20; 5780.2; 04-JAN-2009 10:02:23; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;35804  
 21; 5869.3; 04-JAN-2009 10:03:52; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35804  
 22; 5965.6; 04-JAN-2009 10:05:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;35804  
 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35804  
 24; 6185.7; 04-JAN-2009 10:09:09; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;35804  
 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804  
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804  
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804  
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804  
 29; 6784.0; 04-JAN-2009 10:19:07; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;35804  
 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;35804  
 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804  
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804  
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804  
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804  
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

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1; 1626.5; 04-JAN-2009 10:33:45; Dark ; 53.5; 1; 9Alp CMa ;-1.44; 11000;occ; 107; 76;35805  
 2; 1778.0; 04-JAN-2009 10:36:17; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;35805  
 3; 1885.6; 04-JAN-2009 10:38:04; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35805  
 4; 2031.5; 04-JAN-2009 10:40:30; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35805  
 5; 2269.3; 04-JAN-2009 10:44:28; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35805  
 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805  
 7; 2475.1; 04-JAN-2009 10:47:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35805  
 8; 2555.3; 04-JAN-2009 10:49:14; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35805  
 9; 2689.5; 04-JAN-2009 10:51:28; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;35805  
 10; 3423.8; 04-JAN-2009 11:03:43; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;35805  
 11; 3685.0; 04-JAN-2009 11:08:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35805  
 12; 3923.6; 04-JAN-2009 11:12:02; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35805  
 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805  
 14; 4430.3; 04-JAN-2009 11:20:29; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;35805  
 15; 4555.4; 04-JAN-2009 11:22:34; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35805  
 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805  
 17; 5043.7; 04-JAN-2009 11:30:43; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35805  
 18; 5219.9; 04-JAN-2009 11:33:39; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35805  
 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805  
 20; 5695.0; 04-JAN-2009 11:41:34; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;35805  
 21; 5780.7; 04-JAN-2009 11:43:00; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;35805  
 22; 5869.1; 04-JAN-2009 11:44:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;35805  
 23; 5966.9; 04-JAN-2009 11:46:06; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;35805  
 24; 6052.7; 04-JAN-2009 11:47:32; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35805  
 25; 6186.3; 04-JAN-2009 11:49:45; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;35805  
 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805  
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805  
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805  
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805  
 30; 6785.0; 04-JAN-2009 11:59:44; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;35805  
 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35805  
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805  
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805  
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805  
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090104\_121203\_000060362075\_00181\_35806\_3069.N1

1; 1488.5; 04-JAN-2009 12:12:03; Dark ; 0.0; 179; 240mi2CMa ; 3.03; 24000;occ; 0; 86;35806  
 2; 1588.6; 04-JAN-2009 12:13:43; Dark ; 47.5; 1; 9Alp CMa ;-1.44; 11000;occ; 95; 0;35806  
 3; 1777.2; 04-JAN-2009 12:16:52; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;35806  
 4; 1885.0; 04-JAN-2009 12:18:40; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35806  
 5; 2031.2; 04-JAN-2009 12:21:06; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;35806  
 6; 2268.4; 04-JAN-2009 12:25:03; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;35806  
 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806



8; 2474.8; 04-JAN-2009 12:28:30; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;35806  
9; 2555.1; 04-JAN-2009 12:29:50; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35806  
10; 2689.6; 04-JAN-2009 12:32:04; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35806  
11; 3423.4; 04-JAN-2009 12:44:18; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;35806  
12; 3684.8; 04-JAN-2009 12:48:39; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;35806  
13; 3923.8; 04-JAN-2009 12:52:39; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35806  
14; 4057.4; 04-JAN-2009 12:54:52; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;35806  
15; 4430.3; 04-JAN-2009 13:01:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;35806  
16; 4555.6; 04-JAN-2009 13:03:10; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;35806  
17; 4907.4; 04-JAN-2009 13:09:02; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35806  
18; 5043.6; 04-JAN-2009 13:11:18; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35806  
19; 5220.2; 04-JAN-2009 13:14:15; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;35806  
20; 5387.7; 04-JAN-2009 13:17:02; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35806  
21; 5695.5; 04-JAN-2009 13:22:10; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;35806  
22; 5780.5; 04-JAN-2009 13:23:35; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;35806  
23; 5870.0; 04-JAN-2009 13:25:05; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;35806  
24; 5967.2; 04-JAN-2009 13:26:42; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35806  
25; 6052.8; 04-JAN-2009 13:28:08; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;35806  
26; 6187.3; 04-JAN-2009 13:30:22; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35806  
27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806  
28; 6494.7; 04-JAN-2009 13:35:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35806  
29; 6602.6; 04-JAN-2009 13:37:17; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35806  
30; 6695.2; 04-JAN-2009 13:38:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;35806  
31; 6785.2; 04-JAN-2009 13:40:20; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;35806  
32; 7028.6; 04-JAN-2009 13:44:23; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;35806  
33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806  
34; 7228.2; 04-JAN-2009 13:47:43; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;35806  
35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35806  
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35806

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1; 1445.5; 04-JAN-2009 13:51:56; Dark ; 44.0; 179; 240mi2Cma ; 3.03; 24000;occ; 88; 0;35807  
2; 1588.6; 04-JAN-2009 13:54:19; Dark ; 47.5; 1; 9Alp Cma ;-1.44; 11000;occ; 95; 0;35807  
3; 1778.3; 04-JAN-2009 13:57:29; Dark ; 42.0; 7; 19Bet Ori ; 0.10; 14000;occ; 84; 0;35807  
4; 1885.4; 04-JAN-2009 13:59:16; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35807  
5; 2031.9; 04-JAN-2009 14:01:43; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;35807  
6; 2268.0; 04-JAN-2009 14:05:39; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;35807  
7; 2394.6; 04-JAN-2009 14:07:45; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;35807  
8; 2475.5; 04-JAN-2009 14:09:06; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35807  
9; 2555.2; 04-JAN-2009 14:10:26; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35807  
10; 2689.4; 04-JAN-2009 14:12:40; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;35807  
11; 3423.9; 04-JAN-2009 14:24:55; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;35807  
12; 3684.9; 04-JAN-2009 14:29:15; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35807  
13; 3924.0; 04-JAN-2009 14:33:15; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;35807  
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 31; 3677.3; 08-JAN-2009 22:26:15; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35869  
 32; 3924.5; 08-JAN-2009 22:30:23; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;35869  
 33; 4066.3; 08-JAN-2009 22:32:44; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;35869  
 34; 4439.9; 08-JAN-2009 22:38:58; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;35869  
 35; 4568.0; 08-JAN-2009 22:41:06; Bright; 49.5; 67; 5Alp CrB ; 2.22; 11000;occ; 99; 0;35869  
 36; 4930.4; 08-JAN-2009 22:47:08; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;35869  
 37; 5063.2; 08-JAN-2009 22:49:21; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;35869  
 38; 5151.6; 08-JAN-2009 22:50:50; Bright; 40.0; 98; 13Zet Oph ; 2.57; 30000;occ; 80; 0;35869  
 39; 5256.0; 08-JAN-2009 22:52:34; Dark ; 47.5; 104; 27Bet Lib ; 2.61; 13100;occ; 95; 0;35869

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 23; 2395.6; 08-JAN-2009 23:45:30; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35870  
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 33; 5063.6; 09-JAN-2009 00:29:58; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35870  
 34; 5152.3; 09-JAN-2009 00:31:26; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;35870  
 35; 5256.8; 09-JAN-2009 00:33:11; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;35870

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 22; 5854.0; 08-JAN-2009 09:37:45; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;35861  
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24; 1415.0; 24-JAN-2009 04:59:40; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;36088  
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33; 3426.1; 24-JAN-2009 05:33:11; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;36088  
34; 3638.6; 24-JAN-2009 05:36:43; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36088

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31; 2548.2; 24-JAN-2009 06:59:09; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;36089  
32; 2676.5; 24-JAN-2009 07:01:17; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36089  
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34; 3638.3; 24-JAN-2009 07:17:19; Bright; 14.0; 60; 7Bet UMi ; 2.08; 3950;occ; 28; 0;36089

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4; -66.7; 24-JAN-2009 23:01:33; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;36098  
5; 40.9; 24-JAN-2009 23:03:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36099  
6; 143.4; 24-JAN-2009 23:05:03; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36099  
7; 235.3; 24-JAN-2009 23:06:35; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36099  
8; 417.0; 24-JAN-2009 23:09:37; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36099  
9; 511.8; 24-JAN-2009 23:11:12; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36099  
10; 657.8; 24-JAN-2009 23:13:38; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;36099

11; 789.6; 24-JAN-2009 23:15:49; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;36099  
 12; 897.7; 24-JAN-2009 23:17:37; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36099  
 13; 1053.7; 24-JAN-2009 23:20:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36099  
 14; 1179.9; 24-JAN-2009 23:22:20; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36099  
 15; 1269.2; 24-JAN-2009 23:23:49; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;36099  
 16; 1416.6; 24-JAN-2009 23:26:16; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36099  
 17; 1499.6; 24-JAN-2009 23:27:39; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;36099  
 18; 1629.4; 24-JAN-2009 23:29:49; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;36099  
 19; 1995.4; 24-JAN-2009 23:35:55; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;36099  
 20; 2188.5; 24-JAN-2009 23:39:08; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36099  
 21; 2295.5; 24-JAN-2009 23:40:55; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36099  
 22; 2414.2; 24-JAN-2009 23:42:54; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36099  
 23; 2549.5; 24-JAN-2009 23:45:09; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36099  
 24; 2677.5; 24-JAN-2009 23:47:17; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;36099  
 25; 3426.3; 24-JAN-2009 23:59:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36099  
 26; 3635.7; 25-JAN-2009 00:03:15; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;36099  
 27; 3910.4; 25-JAN-2009 00:07:50; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;36099  
 28; 4085.4; 25-JAN-2009 00:10:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36099  
 29; 4289.7; 25-JAN-2009 00:14:09; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;36099  
 30; 4473.3; 25-JAN-2009 00:17:13; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;36099  
 31; 4674.7; 25-JAN-2009 00:20:34; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36099  
 32; 4771.4; 25-JAN-2009 00:22:11; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36099  
 33; 4897.9; 25-JAN-2009 00:24:18; Bright; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;36099  
 34; 5240.9; 25-JAN-2009 00:30:01; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36099

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1; -2397.6; 24-JAN-2009 07:17:19; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;36089  
 2; -2124.2; 24-JAN-2009 07:21:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;36089  
 3; -1950.6; 24-JAN-2009 07:24:46; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36089  
 4; -1564.0; 24-JAN-2009 07:31:13; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;36089  
 5; -1363.8; 24-JAN-2009 07:34:33; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36089  
 6; -1266.8; 24-JAN-2009 07:36:10; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;36089  
 7; -1140.1; 24-JAN-2009 07:38:16; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36089  
 8; -799.5; 24-JAN-2009 07:43:57; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36089  
 9; -529.1; 24-JAN-2009 07:48:27; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;36089  
 10; -443.0; 24-JAN-2009 07:49:54; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36089  
 11; -195.3; 24-JAN-2009 07:54:01; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;36089  
 12; -74.2; 24-JAN-2009 07:56:02; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36089  
 13; 35.1; 24-JAN-2009 07:57:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090  
 14; 138.8; 24-JAN-2009 07:59:35; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;36090  
 15; 228.6; 24-JAN-2009 08:01:05; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36090  
 16; 412.2; 24-JAN-2009 08:04:09; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;36090  
 17; 504.8; 24-JAN-2009 08:05:41; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;36090  
 18; 655.5; 24-JAN-2009 08:08:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36090  
 19; 786.0; 24-JAN-2009 08:10:23; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36090  
 20; 894.4; 24-JAN-2009 08:12:11; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36090  
 21; 1050.9; 24-JAN-2009 08:14:47; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;36090  
 22; 1177.2; 24-JAN-2009 08:16:54; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36090  
 23; 1267.3; 24-JAN-2009 08:18:24; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36090  
 24; 1415.1; 24-JAN-2009 08:20:52; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36090  
 25; 1498.1; 24-JAN-2009 08:22:15; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090  
 26; 1628.4; 24-JAN-2009 08:24:25; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;36090

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1; 1628.4; 24-JAN-2009 08:24:25; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;36090  
 2; 1996.2; 24-JAN-2009 08:30:33; Dark ; 47.0; 8; 10Alp CMI ; 0.40; 6500;occ; 94; 0;36090  
 3; 2187.8; 24-JAN-2009 08:33:44; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;36090  
 4; 2294.5; 24-JAN-2009 08:35:31; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36090  
 5; 2416.4; 24-JAN-2009 08:37:33; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36090  
 6; 2548.5; 24-JAN-2009 08:39:45; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36090  
 7; 2676.5; 24-JAN-2009 08:41:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36090  
 8; 3426.4; 24-JAN-2009 08:54:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36090  
 9; 3638.2; 24-JAN-2009 08:57:55; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;36090  
 10; 3911.6; 24-JAN-2009 09:02:28; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;36090  
 11; 4085.3; 24-JAN-2009 09:05:22; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36090  
 12; 4472.0; 24-JAN-2009 09:11:49; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;36090  
 13; 4672.0; 24-JAN-2009 09:15:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;36090  
 14; 4769.2; 24-JAN-2009 09:16:46; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36090  
 15; 4895.9; 24-JAN-2009 09:18:52; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;36090  
 16; 5236.7; 24-JAN-2009 09:24:33; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36090



17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090  
 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090  
 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36090  
 20; 5962.6; 24-JAN-2009 09:36:39; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36090  
 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090  
 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090  
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090  
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090  
 25; 6541.2; 24-JAN-2009 09:46:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36090  
 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090  
 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090  
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090  
 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36090  
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090  
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090  
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;36090  
 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36090  
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMa ;-1.44; 11000;occ; 83; 0;36090

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1; 1627.7; 24-JAN-2009 10:05:00; Dark ; 42.0; 1; 9Alp CMa ;-1.44; 11000;occ; 84; 0;36091  
 2; 1996.2; 24-JAN-2009 10:11:09; Dark ; 56.0; 8; 10Alp CMi ; 0.40; 6500;occ; 112; 0;36091  
 3; 2187.8; 24-JAN-2009 10:14:20; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;36091  
 4; 2294.5; 24-JAN-2009 10:16:07; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36091  
 5; 2416.1; 24-JAN-2009 10:18:09; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36091  
 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091  
 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091  
 8; 3426.5; 24-JAN-2009 10:34:59; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;36091  
 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091  
 10; 3911.2; 24-JAN-2009 10:43:04; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;36091  
 11; 4085.3; 24-JAN-2009 10:45:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36091  
 12; 4472.2; 24-JAN-2009 10:52:25; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;36091  
 13; 4672.4; 24-JAN-2009 10:55:45; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88; 0;36091  
 14; 4769.5; 24-JAN-2009 10:57:22; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;36091  
 15; 4896.4; 24-JAN-2009 10:59:29; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36091  
 16; 5236.7; 24-JAN-2009 11:05:09; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36091  
 17; 5507.4; 24-JAN-2009 11:09:40; Dark ; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;36091  
 18; 5593.6; 24-JAN-2009 11:11:06; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;36091  
 19; 5841.9; 24-JAN-2009 11:15:14; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36091  
 20; 5963.5; 24-JAN-2009 11:17:16; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36091  
 21; 6072.2; 24-JAN-2009 11:19:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36091  
 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091  
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091  
 24; 6449.3; 24-JAN-2009 11:25:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36091  
 25; 6542.4; 24-JAN-2009 11:26:55; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36091  
 26; 6691.5; 24-JAN-2009 11:29:24; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;36091  
 27; 6822.7; 24-JAN-2009 11:31:35; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36091  
 28; 6931.3; 24-JAN-2009 11:33:24; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;36091  
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 30; 7214.4; 24-JAN-2009 11:38:07; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;36091  
 31; 7303.0; 24-JAN-2009 11:39:35; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36091  
 32; 7451.5; 24-JAN-2009 11:42:04; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;36091  
 33; 7535.2; 24-JAN-2009 11:43:28; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;36091

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 4; 2188.3; 24-JAN-2009 11:54:57; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36092  
 5; 2295.1; 24-JAN-2009 11:56:43; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;36092  
 6; 2416.2; 24-JAN-2009 11:58:44; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36092  
 7; 2548.5; 24-JAN-2009 12:00:57; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36092  
 8; 2677.0; 24-JAN-2009 12:03:05; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36092  
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 10; 3637.8; 24-JAN-2009 12:19:06; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;36092  
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16; 4896.3; 24-JAN-2009 12:40:05; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36092  
 17; 5237.6; 24-JAN-2009 12:45:46; Dark ; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;36092  
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 19; 5594.1; 24-JAN-2009 12:51:42; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36092  
 20; 5842.7; 24-JAN-2009 12:55:51; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36092  
 21; 5964.4; 24-JAN-2009 12:57:53; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36092  
 22; 6072.9; 24-JAN-2009 12:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36092  
 23; 6176.9; 24-JAN-2009 13:01:25; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36092  
 24; 6267.6; 24-JAN-2009 13:02:56; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;36092  
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 27; 6691.7; 24-JAN-2009 13:10:00; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;36092  
 28; 6823.4; 24-JAN-2009 13:12:12; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;36092  
 29; 6931.4; 24-JAN-2009 13:14:00; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;36092  
 30; 7088.3; 24-JAN-2009 13:16:37; Dark ; 38.0; 34; Gam2Vel ; 1.79; 23000;occ; 76; 0;36092  
 31; 7214.3; 24-JAN-2009 13:18:43; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36092  
 32; 7304.1; 24-JAN-2009 13:20:12; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36092  
 33; 7451.8; 24-JAN-2009 13:22:40; Dark ; 36.5; 23; 21Eps CMA ; 1.50; 26000;occ; 73; 0;36092

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36; 3635.6; 25-JAN-2009 06:45:39; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;36103
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 26; 1418.1; 25-JAN-2009 07:49:18; Dark ; 39.0; 23; 21Eps CMa ; 1.50; 26000;occ; 78; 0;36104  
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 25; 6278.3; 25-JAN-2009 14:12:05; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36107  
 26; 6457.9; 25-JAN-2009 14:15:05; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36107  
 27; 6555.5; 25-JAN-2009 14:16:42; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36107  
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 29; 6828.7; 25-JAN-2009 14:21:16; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36107  
 30; 6936.9; 25-JAN-2009 14:23:04; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36107  
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 33; 7307.0; 25-JAN-2009 14:29:14; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;36107

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 10; 2679.0; 25-JAN-2009 14:52:42; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36108  
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 17; 4773.8; 25-JAN-2009 15:27:37; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;36108  
 18; 4900.4; 25-JAN-2009 15:29:43; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36108  
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 34; 7307.1; 25-JAN-2009 16:09:50; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36108

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 10; 2678.3; 25-JAN-2009 16:33:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36109  
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 28; 6556.9; 25-JAN-2009 17:37:56; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36109  
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 30; 6830.0; 25-JAN-2009 17:42:29; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36109  
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 10; 2296.9; 25-JAN-2009 18:07:32; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36110  
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 13; 2679.0; 25-JAN-2009 18:13:54; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36110  
 14; 3426.6; 25-JAN-2009 18:26:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;36110  
 15; 3633.5; 25-JAN-2009 18:29:48; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;36110  
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 17; 4086.1; 25-JAN-2009 18:37:21; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36110  
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 19; 4474.8; 25-JAN-2009 18:43:50; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36110  
 20; 4774.1; 25-JAN-2009 18:48:49; Bright; 51.0; 59; 55Alp Oph ; 2.08; 8900;occ; 102; 0;36110  
 21; 4901.0; 25-JAN-2009 18:50:56; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36110  
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 23; 5518.6; 25-JAN-2009 19:01:14; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;36110  
 24; 5601.3; 25-JAN-2009 19:02:36; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;36110  
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 27; 6084.7; 25-JAN-2009 19:10:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36110  
 28; 6185.3; 25-JAN-2009 19:12:20; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;36110  
 29; 6280.5; 25-JAN-2009 19:13:55; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36110  
 30; 6459.9; 25-JAN-2009 19:16:55; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36110  
 31; 6557.9; 25-JAN-2009 19:18:33; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36110  
 32; 6696.4; 25-JAN-2009 19:20:51; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36110  
 33; 6829.9; 25-JAN-2009 19:23:05; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36110  
 34; 6938.0; 25-JAN-2009 19:24:53; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36110  
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 19; 4774.3; 25-JAN-2009 20:29:25; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;36111  
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7; -745.5; 28-JAN-2009 05:38:22; Dark ; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;36145
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21;	1192.7;	28-JAN-2009	06:10:41;	Dark	;	39.0;	70;	Zet Pup	;	2.25;	39000;occ;	78;	0;	36146
22;	1278.7;	28-JAN-2009	06:12:07;	Dark	;	42.0;	117;	Pi Pup	;	2.71;	3800;occ;	84;	0;	36146
23;	1403.2;	28-JAN-2009	06:14:11;	Dark	;	37.5;	88;	31Eta CMa	;	2.45;	20000;occ;	75;	0;	36146
24;	1508.1;	28-JAN-2009	06:15:56;	Dark	;	37.5;	179;	24Omi2CMa	;	3.03;	24000;occ;	75;	0;	36146
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26;	2193.1;	28-JAN-2009	06:27:21;	Bright;	;	39.5;	44;	24Gam Gem	;	1.93;	11000;occ;	79;	0;	36146
27;	2301.3;	28-JAN-2009	06:29:09;	Bright;	;	38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	36146
28;	2403.1;	28-JAN-2009	06:30:51;	Bright;	;	41.5;	17;	78Bet Gem	;	1.16;	4500;occ;	83;	0;	36146
29;	2557.5;	28-JAN-2009	06:33:25;	Bright;	;	36.0;	107;	37The Aur	;	2.65;	11000;occ;	72;	0;	36146
30;	2684.0;	28-JAN-2009	06:35:32;	Bright;	;	52.0;	42;	34Bet Aur	;	1.90;	10200;occ;	104;	0;	36146
31;	3427.5;	28-JAN-2009	06:47:55;	Bright;	;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	36146
32;	3626.1;	28-JAN-2009	06:51:14;	Bright;	;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	36146
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4;	1280.5;	28-JAN-2009	21:17:32;	Dark	;	41.0;	117;	Pi Pup	;	2.71;	3800;occ;	82;	0;	36155
5;	1404.5;	28-JAN-2009	21:19:36;	Dark	;	40.5;	88;	31Eta CMa	;	2.45;	20000;occ;	81;	0;	36155
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7;	2194.3;	28-JAN-2009	21:32:46;	Bright;	;	37.0;	44;	24Gam Gem	;	1.93;	11000;occ;	74;	0;	36155
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9;	2401.0;	28-JAN-2009	21:36:12;	Bright;	;	41.5;	17;	78Bet Gem	;	1.16;	4500;occ;	83;	0;	36155
10;	2685.5;	28-JAN-2009	21:40:57;	Bright;	;	39.0;	42;	34Bet Aur	;	1.90;	10200;occ;	78;	0;	36155
11;	3427.6;	28-JAN-2009	21:53:19;	Bright;	;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	36155
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13;	3903.5;	28-JAN-2009	22:01:15;	Bright;	;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	36155
14;	4087.0;	28-JAN-2009	22:04:18;	Bright;	;	39.5;	130;	23Bet Dra	;	2.80;	5800;occ;	79;	0;	36155
15;	4299.2;	28-JAN-2009	22:07:51;	Bright;	;	34.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	69;	0;	36155
16;	4786.2;	28-JAN-2009	22:15:58;	Bright;	;	35.5;	59;	55Alp Oph	;	2.08;	8900;occ;	71;	0;	36155
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7;	279.8;	28-JAN-2009	22:41:27;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36156
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18; 1992.7; 30-JAN-2009 00:18:59; Dark ; 54.0; 8; 10Alp CMI ; 0.40; 6500;occ; 108; 0;36171
19; 2195.9; 30-JAN-2009 00:22:22; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36171
20; 2305.6; 30-JAN-2009 00:24:12; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36171
21; 2398.0; 30-JAN-2009 00:25:44; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36171
22; 2688.0; 30-JAN-2009 00:30:34; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;36171
23; 3427.0; 30-JAN-2009 00:42:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36171
24; 3619.6; 30-JAN-2009 00:46:06; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;36171
25; 3900.4; 30-JAN-2009 00:50:47; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;36171
26; 4087.5; 30-JAN-2009 00:53:54; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;36171
27; 4301.5; 30-JAN-2009 00:57:28; Bright; 31.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 62; 0;36171
28; 4790.5; 30-JAN-2009 01:05:37; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;36171
29; 4917.9; 30-JAN-2009 01:07:44; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;36171
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 2; -2133.2; 29-JAN-2009 06:24:14; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;36160
 3; -1949.0; 29-JAN-2009 06:27:18; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;36160
 4; -1735.5; 29-JAN-2009 06:30:52; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;36160
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 7; -738.7; 29-JAN-2009 06:47:28; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;36160
 8; -525.1; 29-JAN-2009 06:51:02; Dark ; 36.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 72; 0;36160
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11; -14.5; 29-JAN-2009 06:59:33; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;36160
12; 82.2; 29-JAN-2009 07:01:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36161
13; 175.7; 29-JAN-2009 07:02:43; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;36161
14; 283.3; 29-JAN-2009 07:04:30; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36161
15; 451.1; 29-JAN-2009 07:07:18; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;36161
16; 696.8; 29-JAN-2009 07:11:24; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;36161
17; 811.6; 29-JAN-2009 07:13:19; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;36161
18; 917.6; 29-JAN-2009 07:15:05; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;36161
19; 1070.7; 29-JAN-2009 07:17:38; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;36161
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21; 1281.0; 29-JAN-2009 07:21:08; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;36161
22; 1405.4; 29-JAN-2009 07:23:12; Dark ; 38.0; 88; 31Eta CMa ; 2.45; 20000;occ; 76; 0;36161
23; 1510.2; 29-JAN-2009 07:24:57; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;36161

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2;	2194.5;	29-JAN-2009	07:36:22;	Bright;	;	39.5;	44;	24Gam Gem	;	1.93;	11000;occ;	79;	0;	36161
3;	2303.5;	29-JAN-2009	07:38:11;	Bright;	;	38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	36161
4;	2399.6;	29-JAN-2009	07:39:47;	Bright;	;	42.0;	17;	78Bet Gem	;	1.16;	4500;occ;	84;	0;	36161
5;	2686.5;	29-JAN-2009	07:44:34;	Bright;	;	38.0;	42;	34Bet Aur	;	1.90;	10200;occ;	76;	0;	36161
6;	3427.1;	29-JAN-2009	07:56:54;	Bright;	;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	36161
7;	3621.8;	29-JAN-2009	08:00:09;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	36161
8;	3902.5;	29-JAN-2009	08:04:50;	Bright;	;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	36161
9;	4087.4;	29-JAN-2009	08:07:55;	Bright;	;	54.0;	130;	23Bet Dra	;	2.80;	5800;occ;	108;	0;	36161
10;	4299.8;	29-JAN-2009	08:11:27;	Bright;	;	52.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	104;	0;	36161
11;	4788.0;	29-JAN-2009	08:19:35;	Bright;	;	36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	36161
12;	4914.9;	29-JAN-2009	08:21:42;	Bright;	;	35.5;	126;	60Bet Oph	;	2.77;	4250;occ;	71;	0;	36161
13;	5297.2;	29-JAN-2009	08:28:04;	Dark	;	43.0;	86;	35Eta Oph	;	2.43;	10200;occ;	86;	0;	36161
14;	5511.4;	29-JAN-2009	08:31:39;	Dark	;	36.0;	97;	8Bet1Sco	;	2.56;	30000;occ;	72;	0;	36161
15;	5606.0;	29-JAN-2009	08:33:13;	Dark	;	40.5;	25;	35Lam Sco	;	1.62;	28000;occ;	81;	0;	36161
16;	5892.3;	29-JAN-2009	08:37:59;	Dark	;	42.0;	131;	Gam Lup	;	2.80;	26000;occ;	84;	0;	36161
17;	6022.3;	29-JAN-2009	08:40:09;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36161
18;	6118.8;	29-JAN-2009	08:41:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36161
19;	6212.0;	29-JAN-2009	08:43:19;	Dark	;	29.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	59;	0;	36161
20;	6320.2;	29-JAN-2009	08:45:07;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36161
21;	6487.6;	29-JAN-2009	08:47:55;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	36161
22;	6732.9;	29-JAN-2009	08:52:00;	Dark	;	38.0;	159;	Ups Car	;	2.92;	7200;occ;	76;	0;	36161
23;	6847.9;	29-JAN-2009	08:53:55;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	36161
24;	6953.9;	29-JAN-2009	08:55:41;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;	36161
25;	7107.0;	29-JAN-2009	08:58:14;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	36161
26;	7232.6;	29-JAN-2009	09:00:20;	Dark	;	39.5;	70;	Zet Pup	;	2.25;	39000;occ;	79;	0;	36161
27;	7317.2;	29-JAN-2009	09:01:44;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;occ;	87;	0;	36161
28;	7441.5;	29-JAN-2009	09:03:49;	Dark	;	41.0;	88;	31Eta CMa	;	2.45;	20000;occ;	82;	0;	36161
29;	7546.4;	29-JAN-2009	09:05:34;	Dark	;	38.5;	179;	240mi2CMa	;	3.03;	24000;occ;	77;	0;	36161

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1;	1992.6;	29-JAN-2009	12:34:47;	Dark	;	48.0;	8;	10Alp CMI	;	0.40;	6500;occ;	96;	0;	36164
2;	2194.8;	29-JAN-2009	12:38:10;	Bright;	;	42.5;	44;	24Gam Gem	;	1.93;	11000;occ;	85;	0;	36164
3;	2304.1;	29-JAN-2009	12:39:59;	Bright;	;	38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	36164
4;	2399.2;	29-JAN-2009	12:41:34;	Bright;	;	43.0;	17;	78Bet Gem	;	1.16;	4500;occ;	86;	0;	36164
5;	2687.0;	29-JAN-2009	12:46:22;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	36164
6;	3621.2;	29-JAN-2009	13:01:56;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	36164
7;	3901.3;	29-JAN-2009	13:06:36;	Bright;	;	41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	36164
8;	4087.0;	29-JAN-2009	13:09:42;	Bright;	;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	36164
9;	4300.4;	29-JAN-2009	13:13:15;	Bright;	;	52.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	104;	0;	36164
10;	4788.0;	29-JAN-2009	13:21:23;	Bright;	;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	36164
11;	4915.4;	29-JAN-2009	13:23:30;	Bright;	;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	36164
12;	5298.9;	29-JAN-2009	13:29:54;	Dark	;	43.0;	86;	35Eta Oph	;	2.43;	10200;occ;	86;	0;	36164
13;	5551.4;	29-JAN-2009	13:34:06;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	36164
14;	5895.1;	29-JAN-2009	13:39:50;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;occ;	89;	0;	36164
15;	6025.0;	29-JAN-2009	13:42:00;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36164
16;	6120.8;	29-JAN-2009	13:43:36;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36164
17;	6213.9;	29-JAN-2009	13:45:09;	Dark	;	41.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	82;	0;	36164
18;	6322.6;	29-JAN-2009	13:46:57;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36164
19;	6489.5;	29-JAN-2009	13:49:44;	Dark	;	42.0;	12;	Alp1Cru	;	0.77;	30000;occ;	84;	0;	36164
20;	6602.3;	29-JAN-2009	13:51:37;	Dark	;	44.5;	99;	Del Cen	;	2.58;	26000;occ;	89;	0;	36164
21;	6734.5;	29-JAN-2009	13:53:49;	Dark	;	36.0;	159;	Ups Car	;	2.92;	7200;occ;	72;	0;	36164
22;	6849.1;	29-JAN-2009	13:55:44;	Dark	;	46.0;	71;	Iot Car	;	2.25;	7700;occ;	92;	0;	36164
23;	6955.1;	29-JAN-2009	13:57:30;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	36164
24;	7108.0;	29-JAN-2009	14:00:03;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	36164
25;	7233.3;	29-JAN-2009	14:02:08;	Dark	;	42.5;	70;	Zet Pup	;	2.25;	39000;occ;	85;	0;	36164
26;	7317.9;	29-JAN-2009	14:03:33;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	36164
27;	7442.5;	29-JAN-2009	14:05:37;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36164

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3;	-135.8;	30-JAN-2009	01:24:07;	Dark	;	42.0;	131;	Gam Lup	;	2.80;	26000;occ;	84;	0;	36171
4;	-4.2;	30-JAN-2009	01:26:18;	Dark	;	44.0;	109;	Bet Lup	;	2.68;	26000;occ;	88;	0;	36171
5;	89.7;	30-JAN-2009	01:27:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36172
6;	181.7;	30-JAN-2009	01:29:24;	Dark	;	52.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	105;	0;	36172
7;	292.0;	30-JAN-2009	01:31:14;	Dark	;	42.5;	77;	Eps Cen	;	2.30;	28000;occ;	85;	0;	36172
8;	457.3;	30-JAN-2009	01:34:00;	Dark	;	43.5;	12;	Alp1Cru	;	0.77;	30000;occ;	87;	0;	36172
9;	572.2;	30-JAN-2009	01:35:55;	Dark	;	48.0;	99;	Del Cen	;	2.58;	26000;occ;	96;	0;	36172

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22; 3427.5; 30-JAN-2009 02:23:30; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;36172
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5; -1118.0; 30-JAN-2009 02:48:20; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;36172
6; -733.1; 30-JAN-2009 02:54:45; Dark ; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;36172
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10; 90.4; 30-JAN-2009 03:08:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36173
11; 182.3; 30-JAN-2009 03:10:01; Dark ; 26.0; 4; Alp1Cen ; -0.01; 5800;occ; 52; 0;36173
12; 292.9; 30-JAN-2009 03:11:51; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36173
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22; 1992.7; 30-JAN-2009 03:40:11; Dark ; 45.5; 8; 10Alp CMI ; 0.40; 6500;occ; 91; 0;36173
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 17; 1992.6; 31-JAN-2009 23:15:45; Dark ; 31.0; 8; 10Alp CMI ; 0.40; 6500;occ; 62; 0;36199  
 18; 2199.6; 31-JAN-2009 23:19:12; Bright; 29.5; 44; 24Gam Gem ; 1.93; 11000;occ; 59; 0;36199  
 19; 2341.5; 31-JAN-2009 23:21:34; Bright; 30.0; 170; 27Eps Gem ; 3.00; 9700;occ; 60; 0;36199  
 20; 2455.3; 31-JAN-2009 23:23:28; Bright; 32.0; 24; 66Alp Gem ; 1.58; 10200;occ; 64; 0;36199  
 21; 3427.8; 31-JAN-2009 23:39:41; Bright; 28.0; 49; 1Alp UMi ; 1.99; 6300;occ; 56; 0;36199  
 22; 3612.8; 31-JAN-2009 23:42:46; Bright; 30.0; 60; 7Bet UMi ; 2.08; 3950;occ; 60; 0;36199  
 23; 3895.5; 31-JAN-2009 23:47:28; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;36199  
 24; 4087.3; 31-JAN-2009 23:50:40; Bright; 26.0; 130; 23Bet Dra ; 2.80; 5800;occ; 52; 0;36199  
 25; 4305.6; 31-JAN-2009 23:54:18; Bright; 24.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 48; 0;36199  
 26; 4798.3; 01-FEB-2009 00:02:31; Bright; 26.5; 59; 55Alp Oph ; 2.08; 8900;occ; 53; 0;36199  
 27; 4926.4; 01-FEB-2009 00:04:39; Bright; 26.5; 126; 60Bet Oph ; 2.77; 4250;occ; 53; 0;36199  
 28; 5315.8; 01-FEB-2009 00:11:09; Dark ; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;36199

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 2; -2138.4; 31-JAN-2009 07:01:31; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36189  
 3; -1948.2; 31-JAN-2009 07:04:41; Bright; 27.0; 130; 23Bet Dra ; 2.80; 5800;occ; 54; 0;36189  
 4; -1731.8; 31-JAN-2009 07:08:18; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36189  
 5; -1239.8; 31-JAN-2009 07:16:30; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36189  
 6; -1112.8; 31-JAN-2009 07:18:37; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36189  
 7; -725.3; 31-JAN-2009 07:25:04; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36189  
 8; -468.2; 31-JAN-2009 07:29:21; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36189  
 9; -332.1; 31-JAN-2009 07:31:37; Dark ; 30.0; 40; The Sco ; 1.86; 7100;occ; 60; 0;36189  
 10; -121.8; 31-JAN-2009 07:35:08; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;36189  
 11; 11.4; 31-JAN-2009 07:37:21; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;36190  
 12; 102.3; 31-JAN-2009 07:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36190  
 13; 191.0; 31-JAN-2009 07:40:20; Dark ; 35.0; 4; Alp1Cen ; -0.01; 5800;occ; 70; 0;36190  
 14; 306.0; 31-JAN-2009 07:42:15; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;36190  
 15; 466.9; 31-JAN-2009 07:44:56; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36190  
 16; 586.3; 31-JAN-2009 07:46:56; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190  
 17; 706.7; 31-JAN-2009 07:48:56; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190  
 18; 821.5; 31-JAN-2009 07:50:51; Dark ; 32.0; 71; Iot Car ; 2.25; 7700;occ; 64; 0;36190  
 19; 926.5; 31-JAN-2009 07:52:36; Dark ; 32.0; 46; Del Vel ; 1.95; 10600;occ; 64; 0;36190  
 20; 1079.1; 31-JAN-2009 07:55:08; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190  
 21; 1204.1; 31-JAN-2009 07:57:13; Dark ; 30.5; 70; Zet Pup ; 2.25; 39000;occ; 61; 0;36190  
 22; 1411.6; 31-JAN-2009 08:00:41; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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 2; 2198.3; 31-JAN-2009 08:13:48; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36190

3; 2340.6; 31-JAN-2009 08:16:10; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36190  
4; 2456.6; 31-JAN-2009 08:18:06; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36190  
5; 3427.8; 31-JAN-2009 08:34:17; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36190  
6; 3614.8; 31-JAN-2009 08:37:24; Bright; 32.0; 60; 7Bet UMi ; 2.08; 3950;occ; 64; 0;36190  
7; 3897.8; 31-JAN-2009 08:42:07; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36190  
8; 4087.4; 31-JAN-2009 08:45:17; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36190  
9; 4304.3; 31-JAN-2009 08:48:54; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36190  
10; 4795.7; 31-JAN-2009 08:57:05; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;36190  
11; 4923.4; 31-JAN-2009 08:59:13; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;36190  
12; 5311.0; 31-JAN-2009 09:05:40; Dark ; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;36190  
13; 5568.8; 31-JAN-2009 09:09:58; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36190  
14; 5704.2; 31-JAN-2009 09:12:14; Dark ; 30.0; 40; The Sco ; 1.86; 7100;occ; 60; 0;36190  
15; 5915.0; 31-JAN-2009 09:15:44; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;36190  
16; 6048.1; 31-JAN-2009 09:17:57; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;36190  
17; 6138.9; 31-JAN-2009 09:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36190  
18; 6227.5; 31-JAN-2009 09:20:57; Dark ; 35.0; 4; Alp1Cen ; -0.01; 5800;occ; 70; 0;36190  
19; 6342.8; 31-JAN-2009 09:22:52; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;36190  
20; 6503.3; 31-JAN-2009 09:25:33; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36190  
21; 6623.0; 31-JAN-2009 09:27:32; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190  
22; 6742.9; 31-JAN-2009 09:29:32; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190  
23; 6858.2; 31-JAN-2009 09:31:28; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36190  
24; 6963.7; 31-JAN-2009 09:33:13; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36190  
25; 7115.0; 31-JAN-2009 09:35:44; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190  
26; 7239.9; 31-JAN-2009 09:37:49; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36190  
27; 7447.5; 31-JAN-2009 09:41:17; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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1; 1993.2; 31-JAN-2009 09:50:59; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36191  
2; 2198.4; 31-JAN-2009 09:54:24; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36191  
3; 2340.6; 31-JAN-2009 09:56:46; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36191  
4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191  
5; 3427.5; 31-JAN-2009 10:14:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36191  
6; 3614.9; 31-JAN-2009 10:18:00; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36191  
7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191  
8; 4086.8; 31-JAN-2009 10:25:52; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;36191  
9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191  
10; 4795.8; 31-JAN-2009 10:37:41; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;36191  
11; 4923.9; 31-JAN-2009 10:39:49; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36191  
12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191  
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191  
14; 5704.4; 31-JAN-2009 10:52:50; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36191  
15; 5916.3; 31-JAN-2009 10:56:22; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;36191  
16; 6049.2; 31-JAN-2009 10:58:35; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;36191  
17; 6139.6; 31-JAN-2009 11:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36191  
18; 6227.9; 31-JAN-2009 11:01:33; Dark ; 34.5; 4; Alp1Cen ; -0.01; 5800;occ; 69; 0;36191  
19; 6343.5; 31-JAN-2009 11:03:29; Dark ; 37.5; 77; Eps Cen ; 2.30; 28000;occ; 75; 0;36191  
20; 6504.0; 31-JAN-2009 11:06:09; Dark ; 34.0; 12; Alp1Cru ; 0.77; 30000;occ; 68; 0;36191  
21; 6623.8; 31-JAN-2009 11:08:09; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;36191  
22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191  
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191  
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191  
25; 7114.9; 31-JAN-2009 11:16:20; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36191  
26; 7239.7; 31-JAN-2009 11:18:25; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36191  
27; 7447.2; 31-JAN-2009 11:21:52; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36191

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2; 2198.9; 31-JAN-2009 11:35:00; Bright; 31.0; 44; 24Gam Gem ; 1.93; 11000;occ; 62; 0;36192  
3; 2341.0; 31-JAN-2009 11:37:22; Bright; 31.0; 170; 27Eps Gem ; 3.00; 9700;occ; 62; 0;36192  
4; 2456.5; 31-JAN-2009 11:39:18; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;36192  
5; 3427.6; 31-JAN-2009 11:55:29; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36192  
6; 3614.5; 31-JAN-2009 11:58:36; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36192  
7; 3897.3; 31-JAN-2009 12:03:18; Bright; 30.0; 119; 14Eta Dra ; 2.73; 4700;occ; 60; 0;36192  
8; 4087.1; 31-JAN-2009 12:06:28; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36192  
9; 4304.7; 31-JAN-2009 12:10:06; Bright; 25.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 50; 0;36192  
10; 4796.6; 31-JAN-2009 12:18:18; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36192  
11; 4924.8; 31-JAN-2009 12:20:26; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;36192  
12; 5311.8; 31-JAN-2009 12:26:53; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36192  
13; 5569.7; 31-JAN-2009 12:31:11; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36192  
14; 5704.5; 31-JAN-2009 12:33:26; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36192



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16;	6050.0;	31-JAN-2009	12:39:11;	Dark	;	39.0;	109;	Bet Lup	;	2.68;	26000;occ;	78;	0;	36192
17;	6140.3;	31-JAN-2009	12:40:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36192
18;	6228.2;	31-JAN-2009	12:42:09;	Dark	;	34.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	69;	0;	36192
19;	6344.6;	31-JAN-2009	12:44:06;	Dark	;	37.5;	77;	Eps Cen	;	2.30;	28000;occ;	75;	0;	36192
20;	6504.4;	31-JAN-2009	12:46:46;	Dark	;	34.0;	12;	Alp1Cru	;	0.77;	30000;occ;	68;	0;	36192
21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192