

# GOMOS Daily Report 10-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	14JAN2009 05:37:55
Data source version	GOMOS/5.00
Start time of products	10JAN2009 05:25:25
Stop time of products	10JAN2009 22:20:53
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)

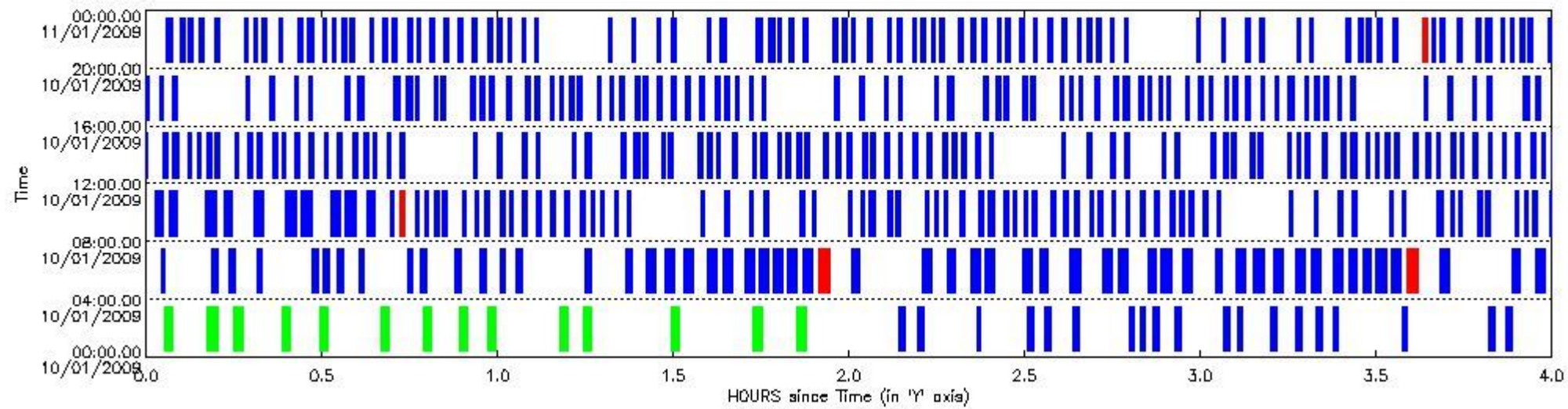
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

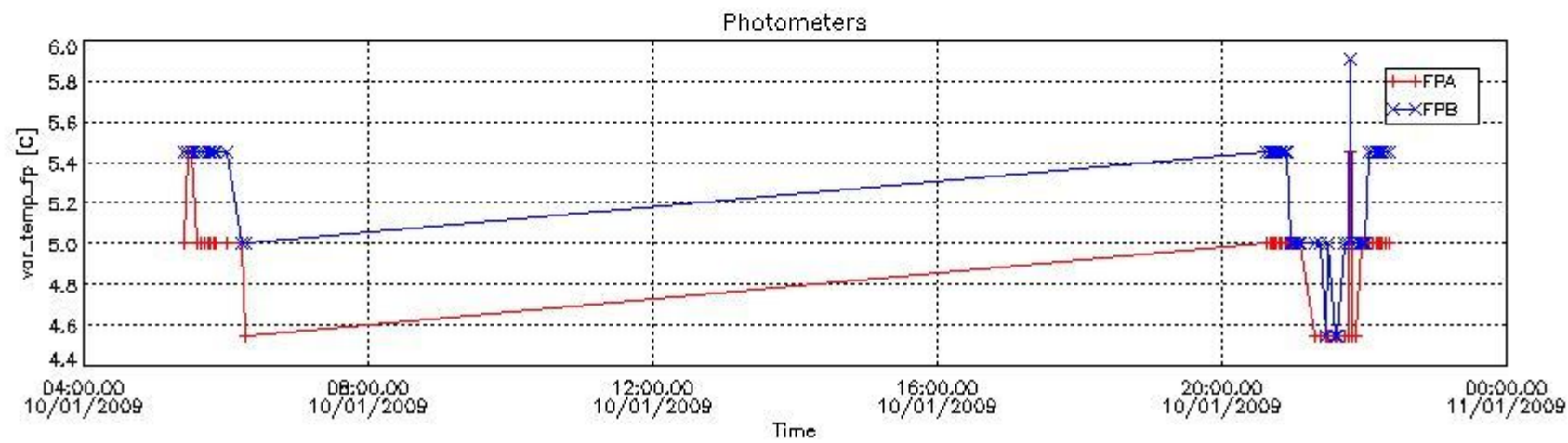
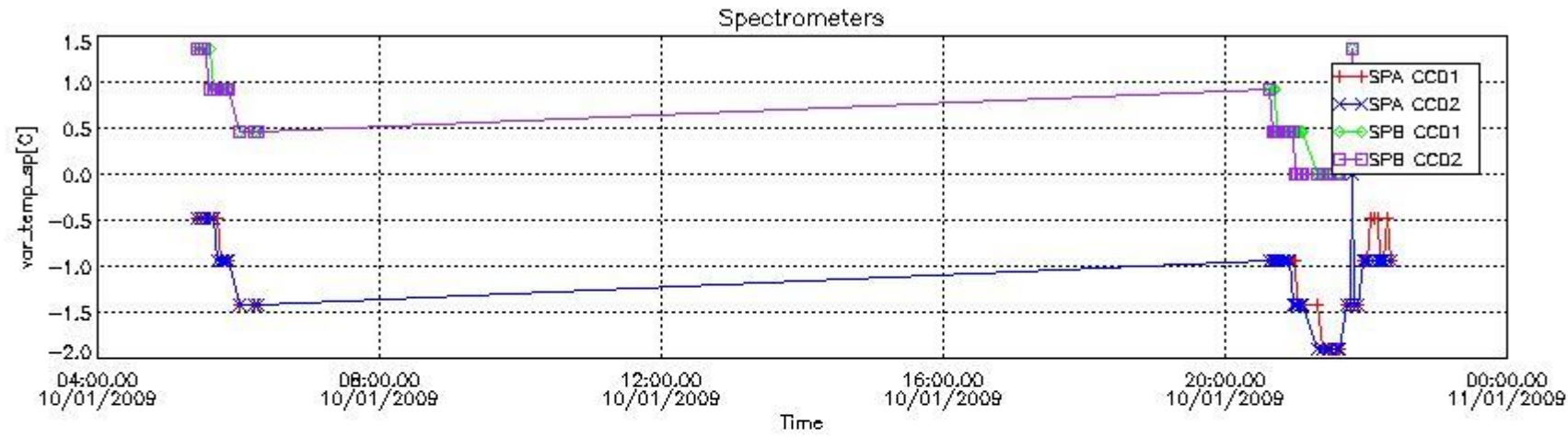
UTC start time	Star name	Star ID	Orbit
10-JAN-2009 05:54:46	27EpsGem	170	35888
10-JAN-2009 07:35:22	27EpsGem	170	35889
10-JAN-2009 08:43:13	DSA1053	0	35890
10-JAN-2009 23:37:54	GamLup	131	35898

### 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_1PNPDE20090110_052525_000000942075_00263_35888_0886.N1	10-JAN-2009 05:25:25	Dark	93.500	29	Bet Car	1.6720	10200.	187	35888	No
2	GOM_TRA_1PNPDE20090110_052831_000000962075_00263_35888_0887.N1	10-JAN-2009 05:28:31	Dark	95.500	41	Eps Car	1.8600	4100.0	191	35888	No
3	GOM_TRA_1PNPDE20090110_053145_000000972075_00263_35888_0888.N1	10-JAN-2009 05:31:45	Dark	97.000	34	Gam2Vel	1.7930	23000.	194	35888	No
4	GOM_TRA_1PNPDE20090110_053544_000001002075_00263_35888_0889.N1	10-JAN-2009 05:35:44	Straylight	99.500	117	Pi Pup	2.7060	3800.0	199	35888	No
5	GOM_TRA_1PNPDE20090110_053822_000000982075_00263_35888_0890.N1	10-JAN-2009 05:38:22	Straylight	98.000	23	21Eps CMa	1.5020	26000.	196	35888	No
6	GOM_TRA_1PNPDE20090110_054206_000001022075_00263_35888_0891.N1	10-JAN-2009 05:42:06	Straylight	101.50	1	9Alp CMa	-1.4400	11000.	203	35888	No
7	GOM_TRA_1PNPDE20090110_054438_000000912075_00263_35888_0892.N1	10-JAN-2009 05:44:38	Straylight	90.500	56	53Kap Ori	2.0650	30000.	181	35888	No

8	GOM_TRA_1PNPDE20090110_054705_000000912075_00263_35888_0893.N1	10-JAN-2009 05:47:05	Twilight	91.000	30	46Eps Ori	1.6940	30000.	182	35888	No
9	GOM_TRA_1PNPDE20090110_054923_000000982075_00263_35888_0894.N1	10-JAN-2009 05:49:23	Twilight	98.000	14	58Alp Ori	0.87000	3000.0	196	35888	No
10	GOM_TRA_1PNPDE20090110_055203_000000982075_00263_35888_0895.N1	10-JAN-2009 05:52:03	Twilight	98.000	44	24Gam Gem	1.9280	11000.	196	35888	No
11	GOM_TRA_1PNPDE20090110_060022_000000902075_00263_35888_0896.N1	10-JAN-2009 06:00:22	Bright	90.000	6	13Alp Aur	0.080000	3400.0	180	35888	No
12	GOM_TRA_1PNPDE20090110_061234_000000882075_00263_35888_0897.N1	10-JAN-2009 06:12:34	Bright	88.000	49	1Alp UMi	1.9900	6300.0	176	35888	No
13	GOM_TRA_1PNPDE20090110_061641_000000562075_00263_35888_0898.N1	10-JAN-2009 06:16:41	Straylight	55.500	60	7Bet UMi	2.0810	3950.0	111	35888	No
14	GOM_TRA_1PNPDE20090110_203807_000000452075_00272_35897_1327.N1	10-JAN-2009 20:38:07	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	35897	No
15	GOM_TRA_1PNPDE20090110_204017_000000442075_00272_35897_1328.N1	10-JAN-2009 20:40:17	Dark	44.000	70	Zet Pup	2.2460	39000.	88	35897	No
16	GOM_TRA_1PNPDE20090110_204204_000000442075_00272_35897_1329.N1	10-JAN-2009 20:42:04	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	35897	No
17	GOM_TRA_1PNPDE20090110_204441_000000432075_00272_35897_1330.N1	10-JAN-2009 20:44:41	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	35897	No
18	GOM_TRA_1PNPDE20090110_204607_000000412075_00272_35897_1331.N1	10-JAN-2009 20:46:07	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	35897	No
19	GOM_TRA_1PNPDE20090110_204824_000000452075_00272_35897_1332.N1	10-JAN-2009 20:48:24	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	35897	No
20	GOM_TRA_1PNPDE20090110_205052_000000442075_00272_35897_1333.N1	10-JAN-2009 20:50:52	Straylight	43.500	56	53Kap Ori	2.0650	30000.	87	35897	No
21	GOM_TRA_1PNPDE20090110_205320_000000412075_00272_35897_1334.N1	10-JAN-2009 20:53:20	Twilight	41.000	30	46Eps Ori	1.6940	30000.	82	35897	No
22	GOM_TRA_1PNPDE20090110_205537_000000492075_00272_35897_1335.N1	10-JAN-2009 20:55:37	Twilight	49.000	14	58Alp Ori	0.87000	3000.0	98	35897	No
23	GOM_TRA_1PNPDE20090110_205819_000000452075_00272_35897_1336.N1	10-JAN-2009 20:58:19	Twilight	45.000	44	24Gam Gem	1.9280	11000.	90	35897	No
24	GOM_TRA_1PNPDE20090110_210001_000000432075_00272_35897_1337.N1	10-JAN-2009 21:00:01	Bright	43.000	151	13Mu Gem	2.8900	3000.0	86	35897	No
25	GOM_TRA_1PNPDE20090110_210141_000000382075_00272_35897_1338.N1	10-JAN-2009 21:01:41	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	35897	No
26	GOM_TRA_1PNPDE20090110_210408_000000372075_00272_35897_1339.N1	10-JAN-2009 21:04:08	Bright	37.000	107	37The Aur	2.6490	11000.	74	35897	No
27	GOM_TRA_1PNPDE20090110_210620_000000372075_00272_35897_1340.N1	10-JAN-2009 21:06:20	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	35897	No
28	GOM_TRA_1PNPDE20090110_211848_000000372075_00272_35897_1341.N1	10-JAN-2009 21:18:48	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	35897	No
29	GOM_TRA_1PNPDE20090110_212257_000000342075_00272_35897_1342.N1	10-JAN-2009 21:22:57	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	35897	No
30	GOM_TRA_1PNPDE20090110_212708_000000402075_00272_35897_1343.N1	10-JAN-2009 21:27:08	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	35897	No
31	GOM_TRA_1PNPDE20090110_212934_000000522075_00272_35897_1344.N1	10-JAN-2009 21:29:34	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	35897	No
32	GOM_TRA_1PNPDE20090110_213548_000000362075_00272_35897_1345.N1	10-JAN-2009 21:35:48	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	35897	No
33	GOM_TRA_1PNPDE20090110_213758_000000602075_00272_35897_1346.N1	10-JAN-2009 21:37:58	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	35897	No
34	GOM_TRA_1PNPDE20090110_214406_000000582075_00272_35897_1347.N1	10-JAN-2009 21:44:06	Bright	58.000	102	24Alp Ser	2.6000	4250.0	116	35897	No
35	GOM_TRA_1PNPDE20090110_214617_000000542075_00272_35897_1348.N1	10-JAN-2009 21:46:17	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	35897	No
36	GOM_TRA_1PNPDE20090110_214743_000000412075_00272_35897_1498.N1	10-JAN-2009 21:47:43	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	35897	Yes
37	GOM_TRA_1PNPDE20090110_214938_000000472075_00272_35897_1499.N1	10-JAN-2009 21:49:38	Twilight	46.500	104	27Bet Lib	2.6140	13100.	93	35897	No
38	GOM_TRA_1PNPDE20090110_215210_000000462075_00272_35897_1500.N1	10-JAN-2009 21:52:10	Twilight	45.500	16	21Alp Sco	1.0200	3000.0	91	35897	No
39	GOM_TRA_1PNPDE20090110_215716_000000402075_00272_35897_1501.N1	10-JAN-2009 21:57:16	Dark	40.000	131	Gam Lup	2.8000	26000.	80	35897	No
40	GOM_TRA_1PNPDE20090110_215853_000000402075_00272_35897_1502.N1	10-JAN-2009 21:58:53	Dark	39.500	109	Bet Lup	2.6770	26000.	79	35897	No
41	GOM_TRA_1PNPDE20090110_220024_000000402075_00272_35897_1503.N1	10-JAN-2009 22:00:24	Dark	40.000	78	Alp Lup	2.3040	28000.	80	35897	No
42	GOM_TRA_1PNPDE20090110_220312_000000432075_00273_35898_1504.N1	10-JAN-2009 22:03:12	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	35898	No
43	GOM_TRA_1PNPDE20090110_220631_000000412075_00273_35898_1505.N1	10-JAN-2009 22:06:31	Dark	40.500	20	Bet Cru	1.2530	30000.	81	35898	No
44	GOM_TRA_1PNPDE20090110_221045_000000372075_00273_35898_1506.N1	10-JAN-2009 22:10:45	Dark	37.000	124	The Car	2.7640	30000.	74	35898	No
45	GOM_TRA_1PNPDE20090110_221217_000000392075_00273_35898_1507.N1	10-JAN-2009 22:12:17	Dark	39.000	29	Bet Car	1.6720	10200.	78	35898	No
46	GOM_TRA_1PNPDE20090110_221404_000000412075_00273_35898_1508.N1	10-JAN-2009 22:14:04	Dark	40.500	71	lot Car	2.2460	7700.0	81	35898	No
47	GOM_TRA_1PNPDE20090110_221525_000000492075_00273_35898_1509.N1	10-JAN-2009 22:15:25	Dark	49.000	41	Eps Car	1.8600	4100.0	98	35898	No
48	GOM_TRA_1PNPDE20090110_221843_000000432075_00273_35898_1510.N1	10-JAN-2009 22:18:43	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	35898	No
49	GOM_TRA_1PNPDE20090110_222053_000000432075_00273_35898_1511.N1	10-JAN-2009 22:20:53	Dark	43.000	70	Zet Pup	2.2460	39000.	86	35898	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.

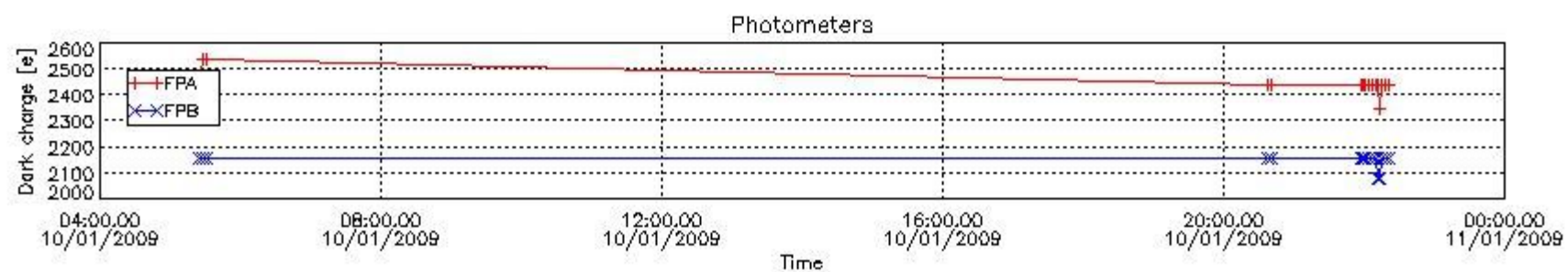
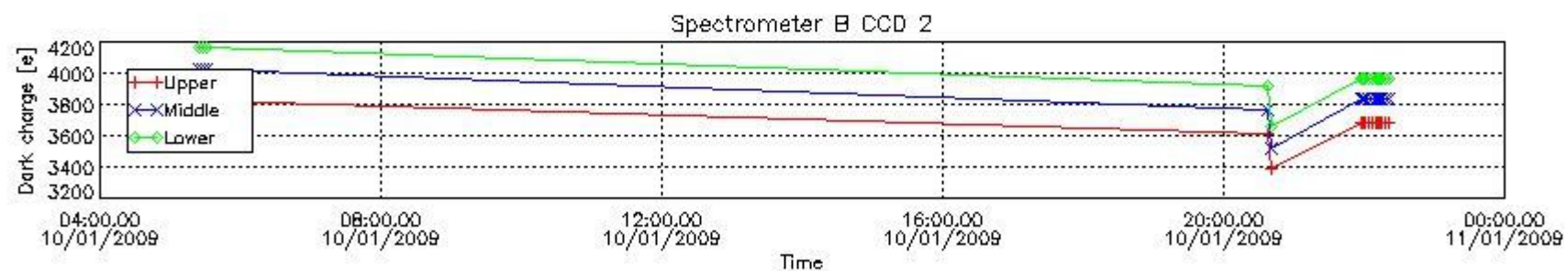
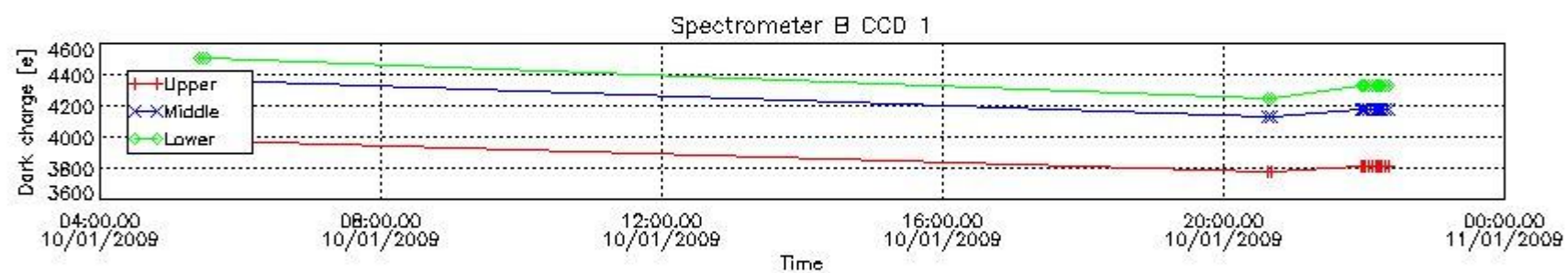
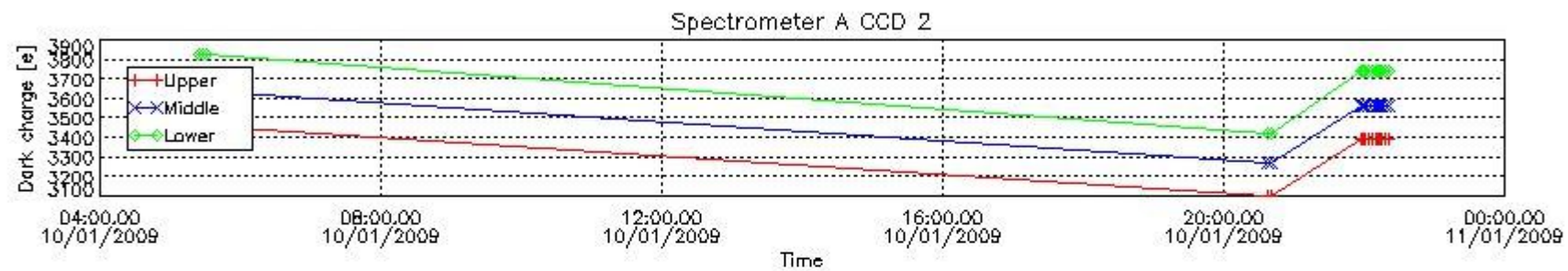
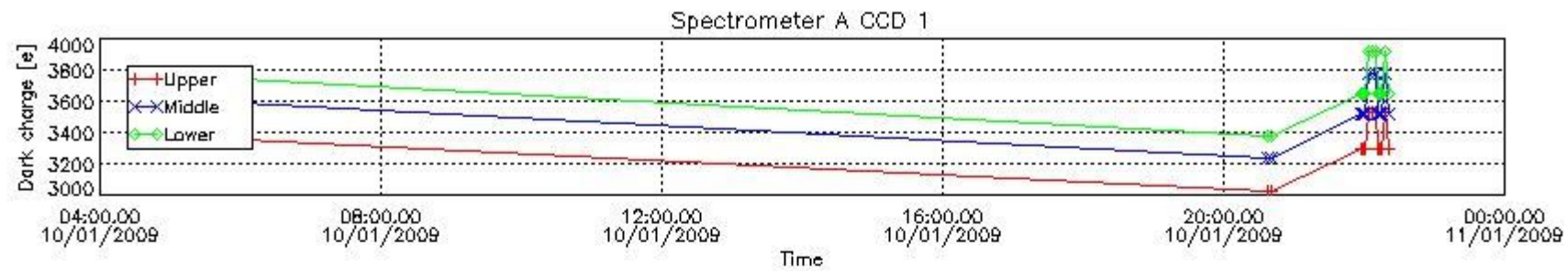
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090110_203807_000000452075_00272_35897_1327.N1	DC map used
GOM_TRA_1PNPDE20090110_204017_000000442075_00272_35897_1328.N1	DC map used
GOM_TRA_1PNPDE20090110_204204_000000442075_00272_35897_1329.N1	DC map used
GOM_TRA_1PNPDE20090110_204441_000000432075_00272_35897_1330.N1	DC map used
GOM_TRA_1PNPDE20090110_204607_000000412075_00272_35897_1331.N1	DC map used
GOM_TRA_1PNPDE20090110_204824_000000452075_00272_35897_1332.N1	DC map used
GOM_TRA_1PNPDE20090110_205052_000000442075_00272_35897_1333.N1	DC map used
GOM_TRA_1PNPDE20090110_205320_000000412075_00272_35897_1334.N1	DC map used
GOM_TRA_1PNPDE20090110_205537_000000492075_00272_35897_1335.N1	DC map used
GOM_TRA_1PNPDE20090110_205819_000000452075_00272_35897_1336.N1	DC map used
GOM_TRA_1PNPDE20090110_210001_000000432075_00272_35897_1337.N1	DC map used
GOM_TRA_1PNPDE20090110_210141_000000382075_00272_35897_1338.N1	DC map used
GOM_TRA_1PNPDE20090110_210408_000000372075_00272_35897_1339.N1	DC map used
GOM_TRA_1PNPDE20090110_210620_000000372075_00272_35897_1340.N1	DC map used



GOM_TRA_1PNPDE20090110_211848_000000372075_00272_35897_1341.N1	DC map used
GOM_TRA_1PNPDE20090110_212257_000000342075_00272_35897_1342.N1	DC map used
GOM_TRA_1PNPDE20090110_212708_000000402075_00272_35897_1343.N1	DC map used
GOM_TRA_1PNPDE20090110_212934_000000522075_00272_35897_1344.N1	DC map used
GOM_TRA_1PNPDE20090110_213548_000000362075_00272_35897_1345.N1	DC map used
GOM_TRA_1PNPDE20090110_213758_000000602075_00272_35897_1346.N1	DC map used
GOM_TRA_1PNPDE20090110_214406_000000582075_00272_35897_1347.N1	DC map used
GOM_TRA_1PNPDE20090110_214617_000000542075_00272_35897_1348.N1	DC map used

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



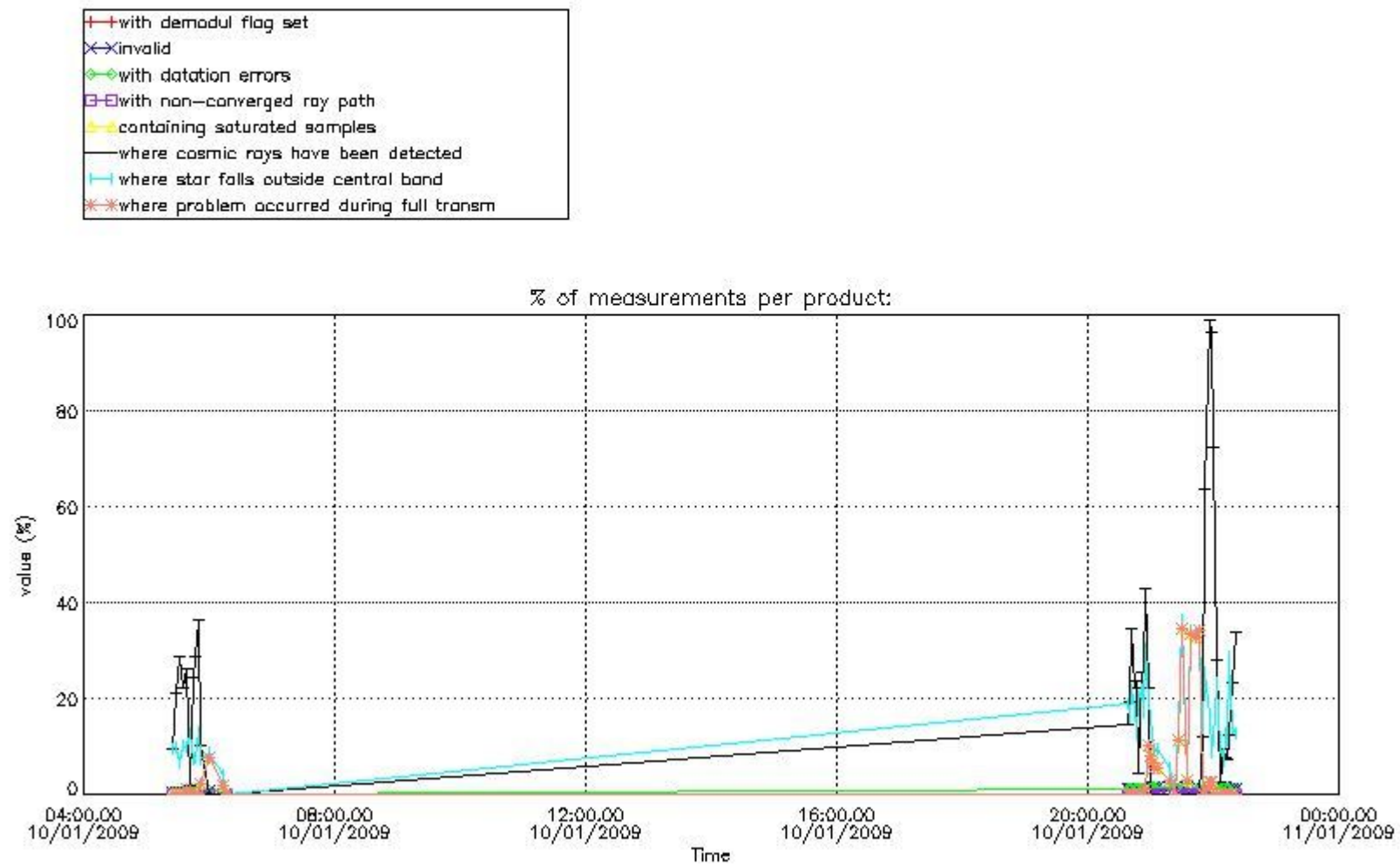
## 5. Demodulation flag and quality information monitoring

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.

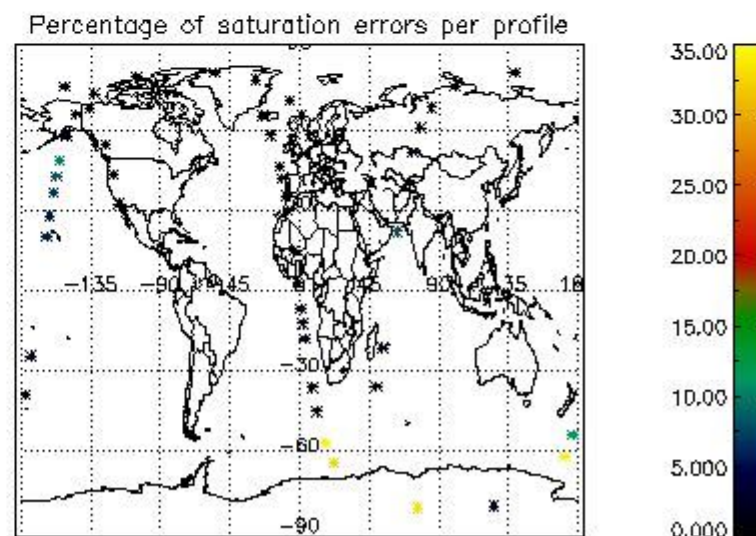
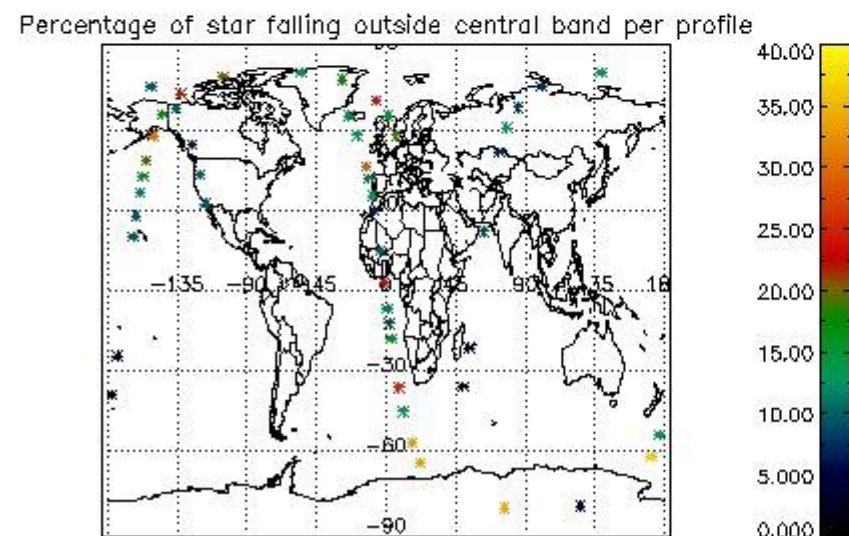
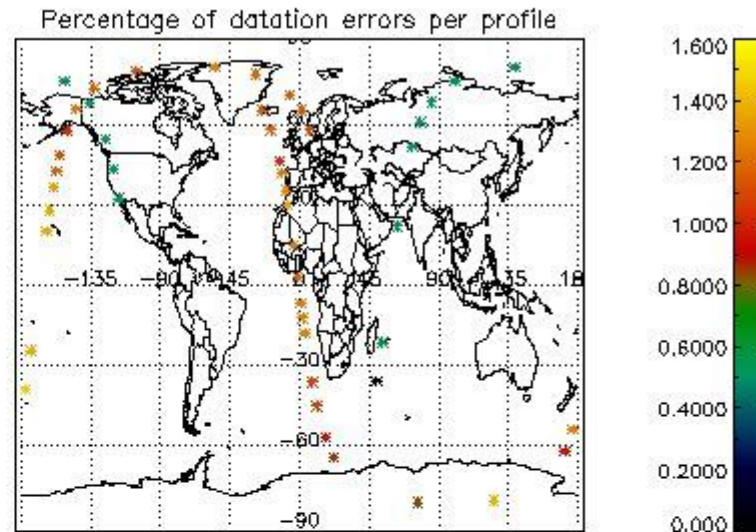
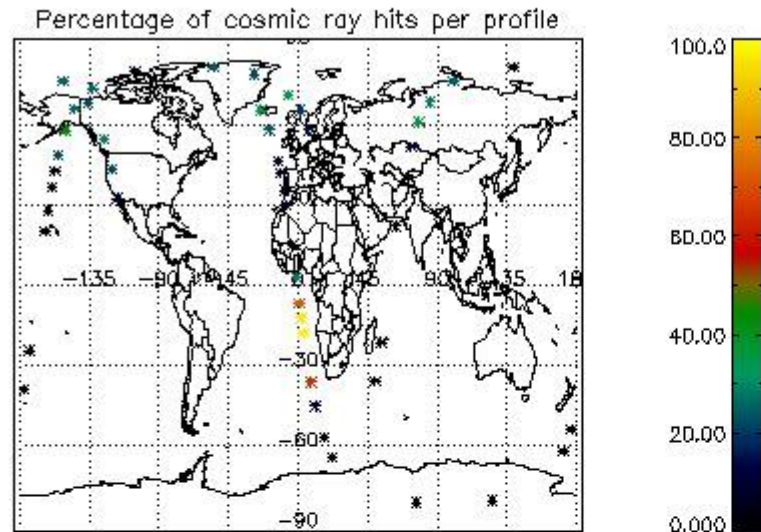
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.6667 %
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)

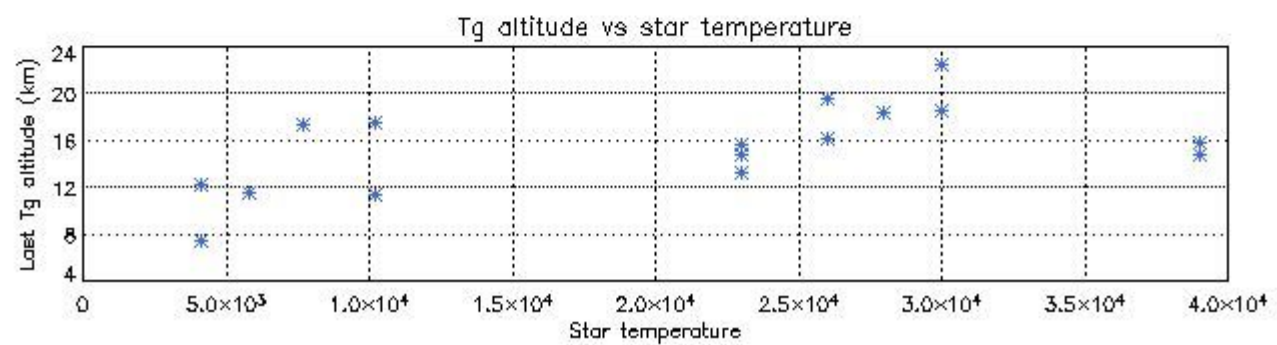
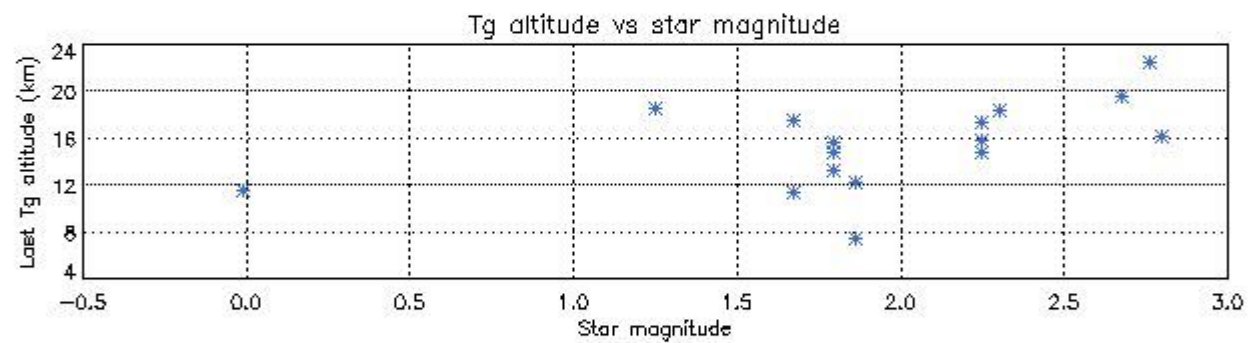
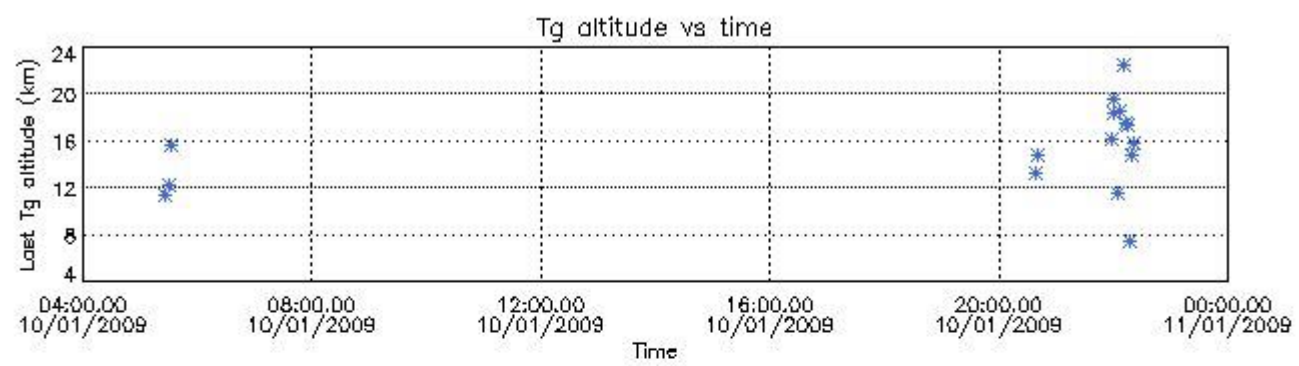
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.411	15.104	NaN
St. deviation:	3.7027	8.2356	NaN
Maximum:	22.445	30.667	NaN
Minimum:	7.4011	3.7407	NaN
Number of data:	16.000	14.000	NaN

### 6.2 Plot for DARK limb products



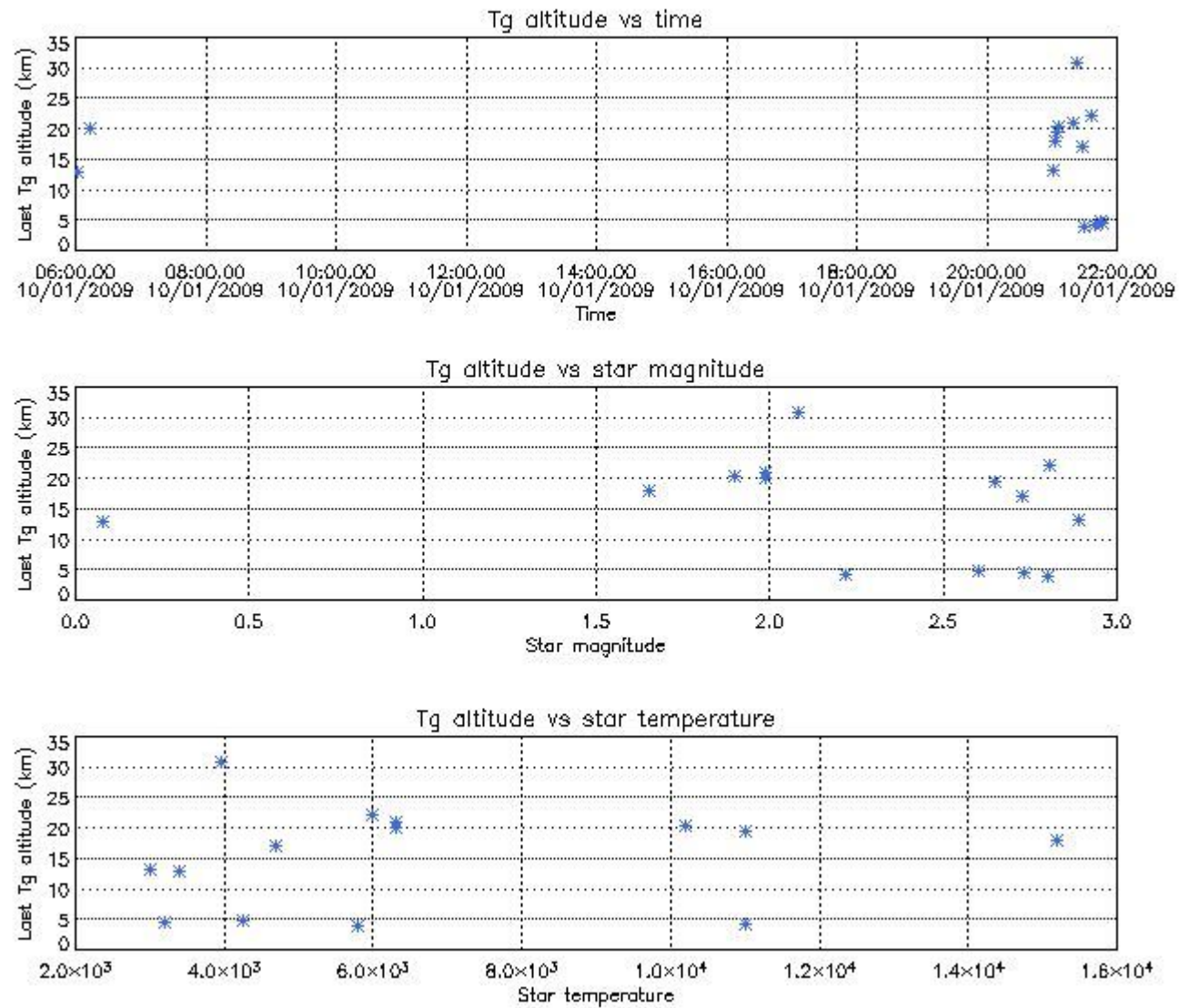
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

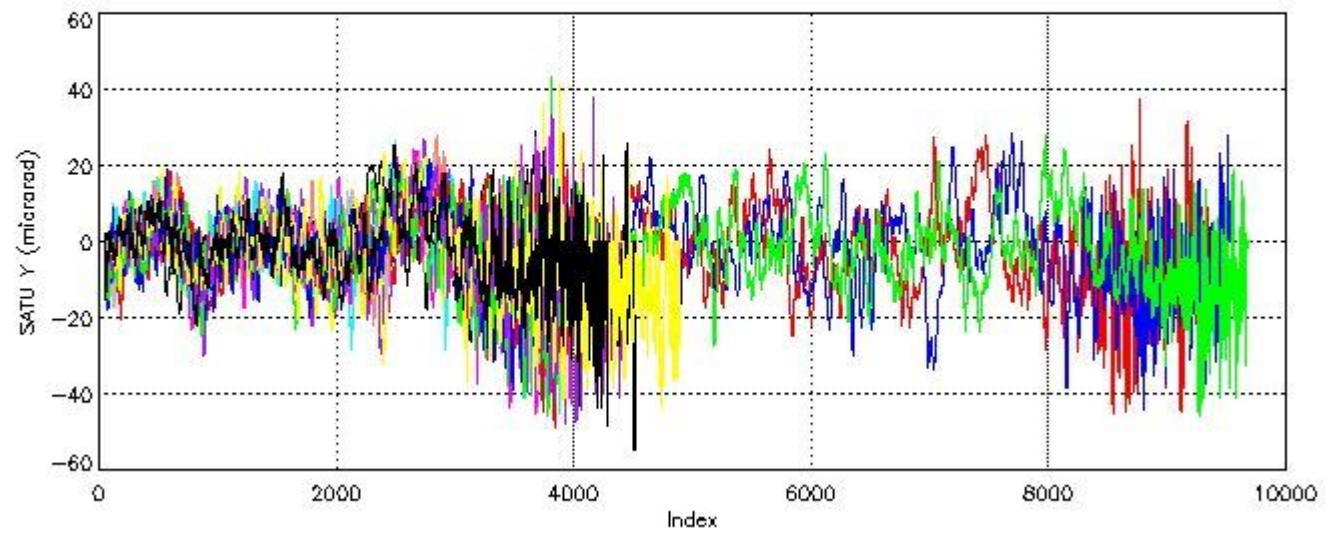
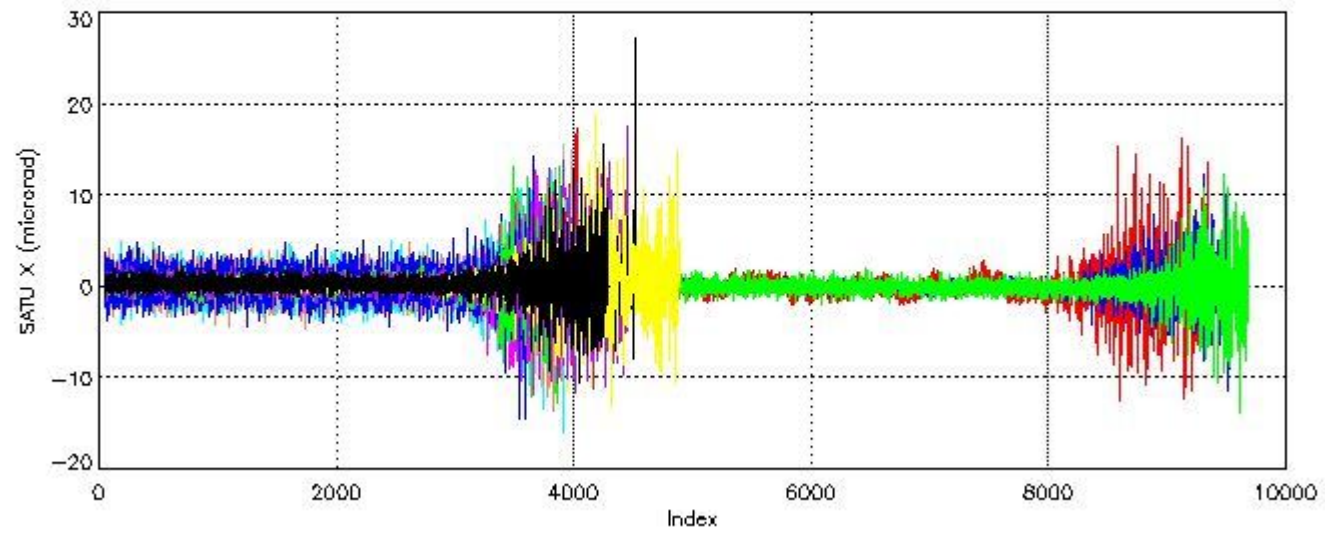


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.19461	-0.89259	0.096425	-0.89024
St. deviation:	0.73287	6.9250	0.66209	7.1149
Maximum:	5.0000	24.200	4.6000	23.500
Minimum:	-4.3000	-29.900	-4.7000	-33.300

Number of data:	30000.	30000.	22250.	22250.
-----------------	--------	--------	--------	--------

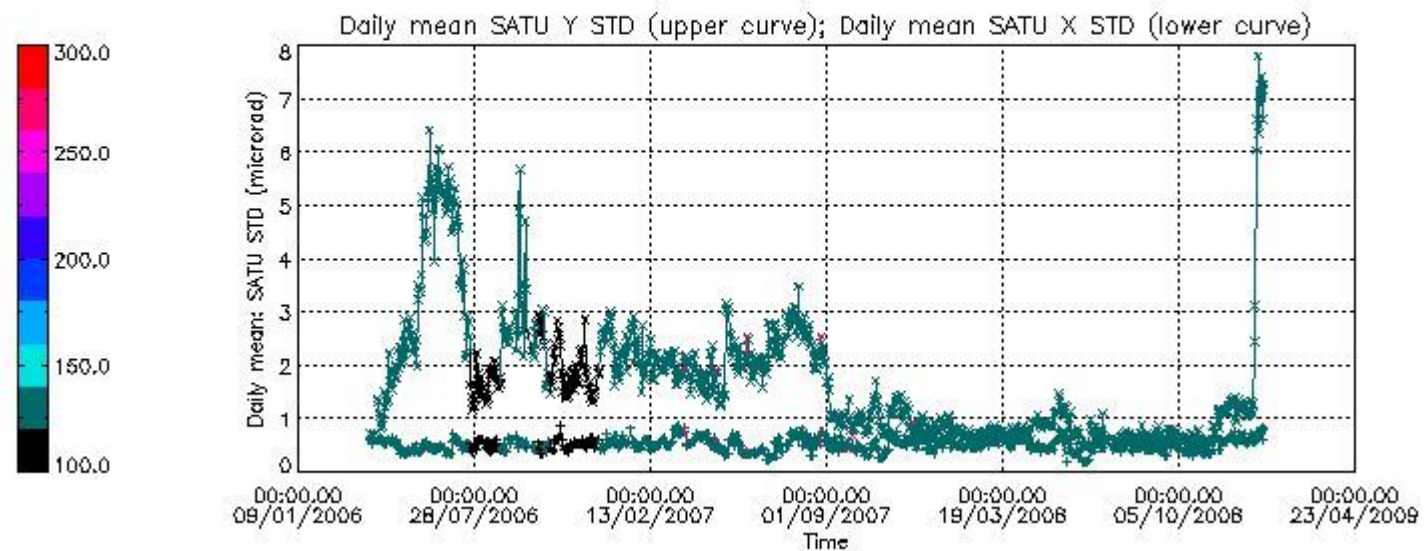
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

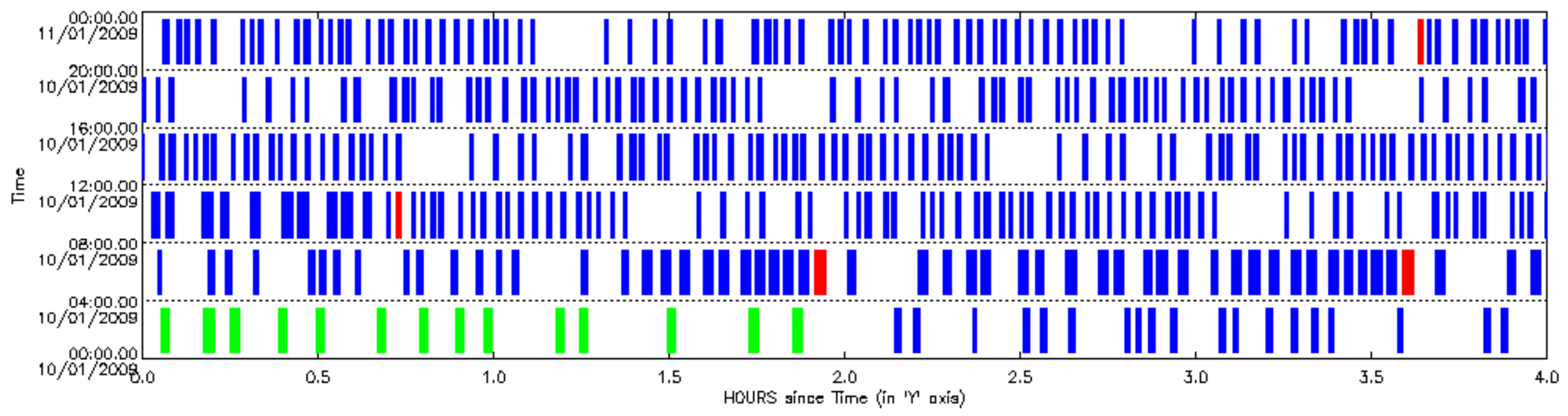


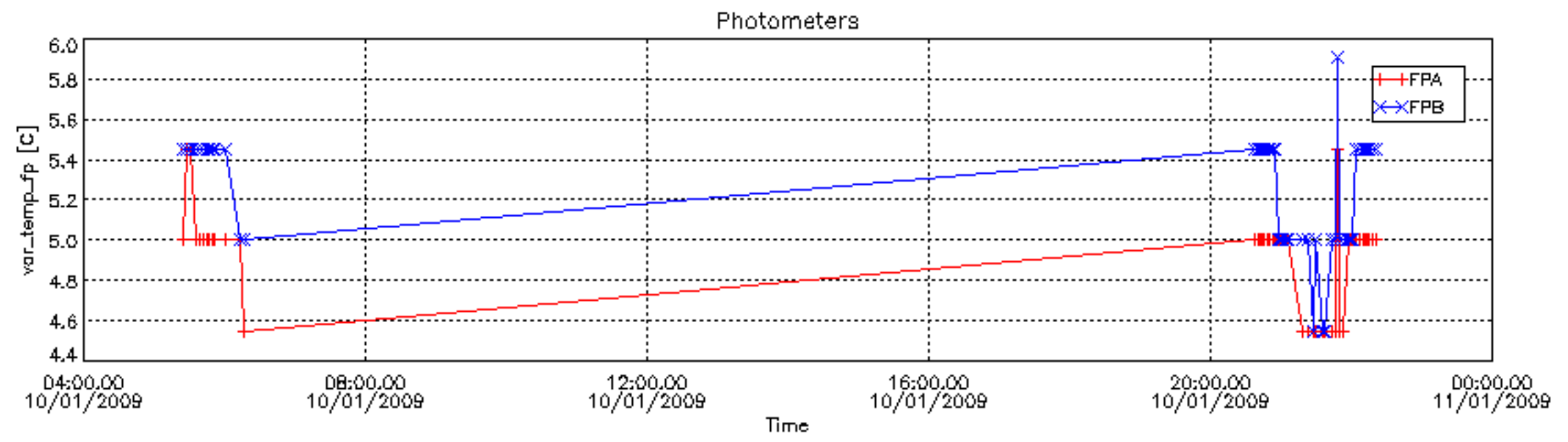
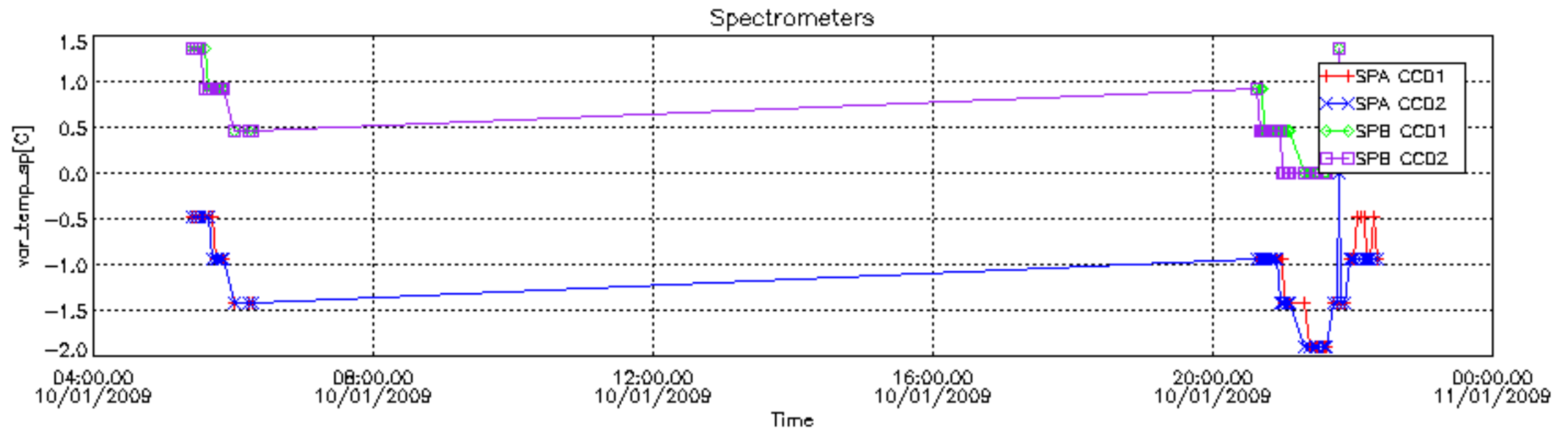
### 8. Auxiliary Data Files used for the production reported in section 2.4

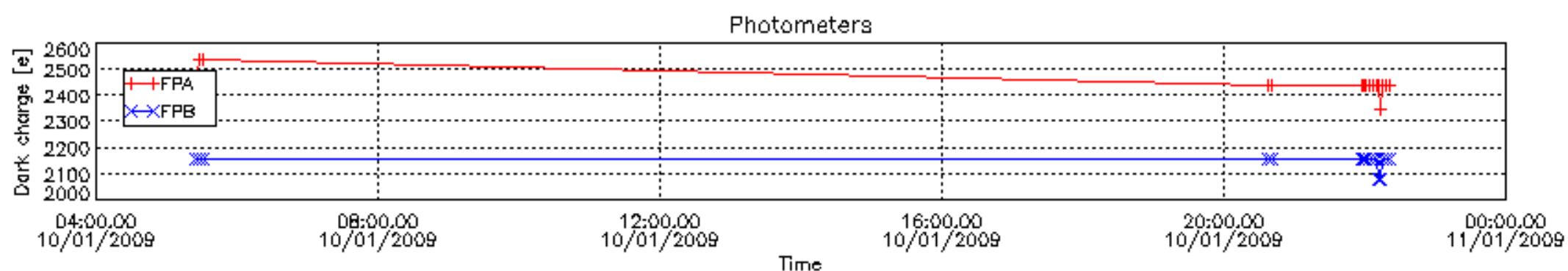
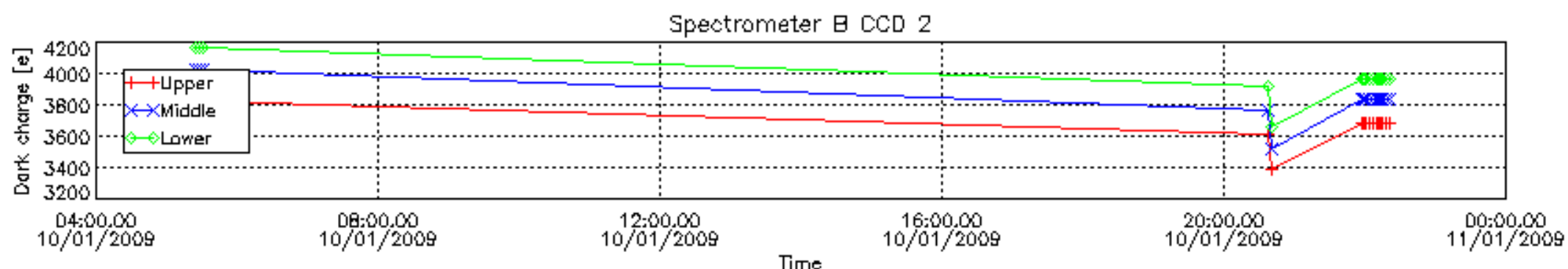
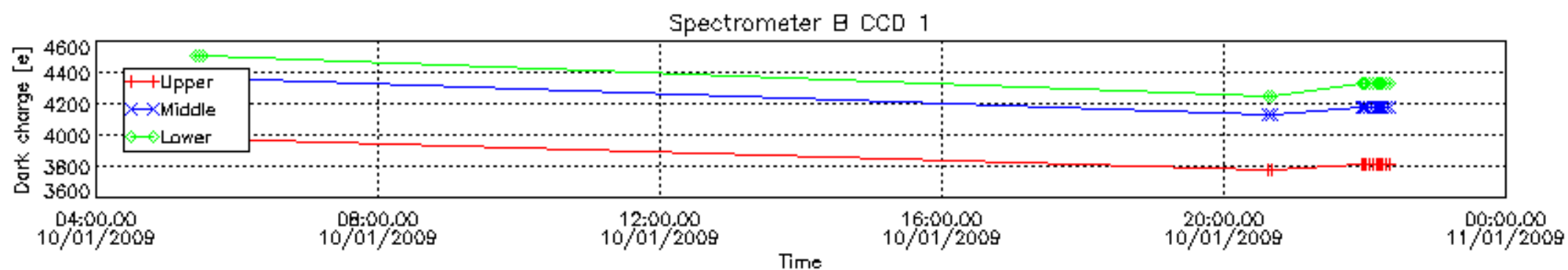
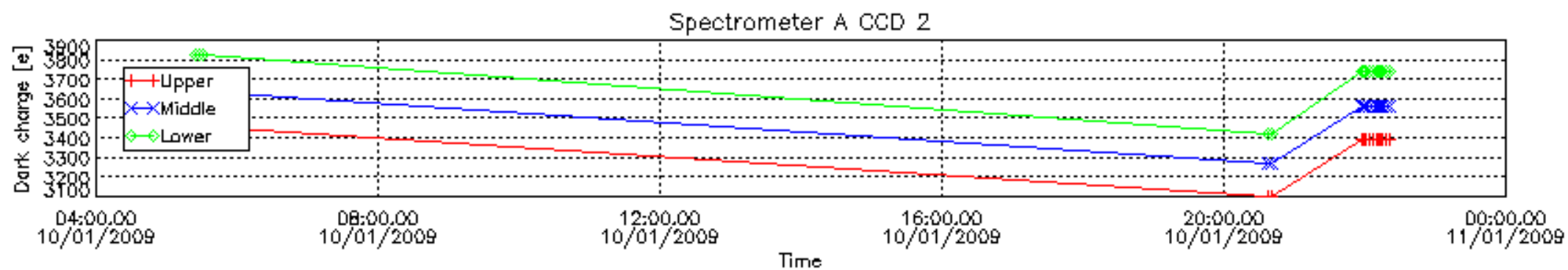
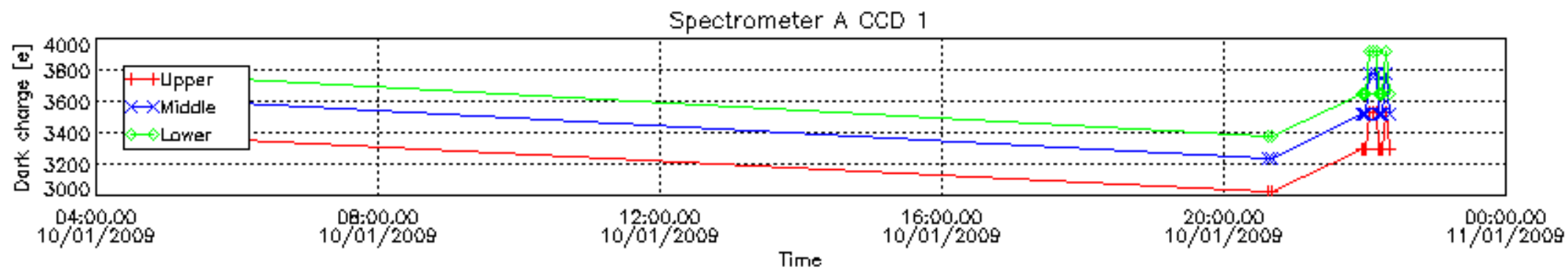
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-JAN-2009 05:25:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081229_162214_20081227_000000_20100101_000000	1	10-JAN-2009 05:25:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-JAN-2009 05:25:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-JAN-2009 05:25:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-JAN-2009 05:25:25
ECMWF_FILE	AUX_ECF_AXNECM20090109_182111_20090110_030000_20090110_150000	1	10-JAN-2009 05:25:25
ECMWF_FILE	AUX_ECF_AXNECM20090110_064111_20090110_150000_20090111_030000	14	10-JAN-2009 20:38:07
ECMWF_FILE	AUX_ECF_AXNECM20090110_064111_20090110_210000_20090111_090000	36	10-JAN-2009 21:47:43
OPTIONAL_ECMWF_FILE	MISSING	1	10-JAN-2009 05:25:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090110_025911_000054192075_00261_35886_7132.N1	1	10-JAN-2009 05:25:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090110_203630_000038262075_00272_35897_7134.N1	14	10-JAN-2009 20:38:07

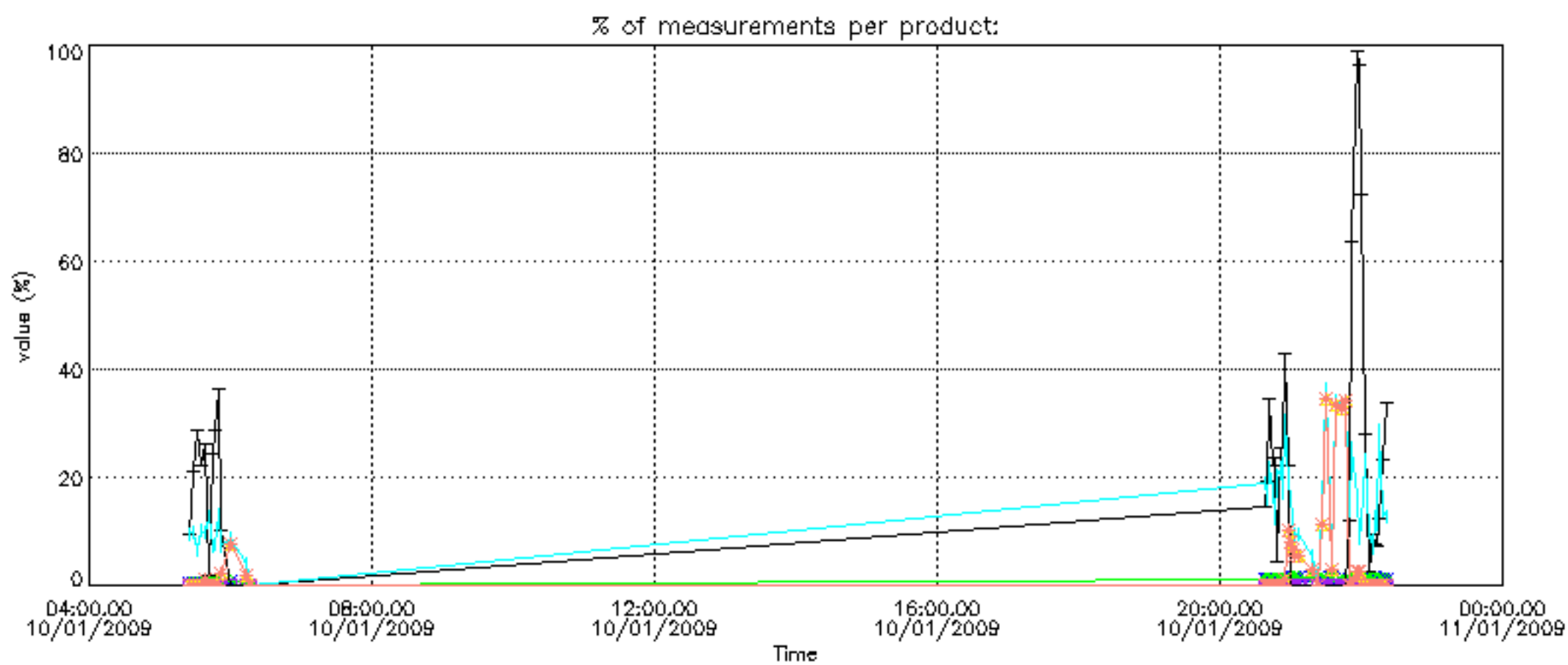




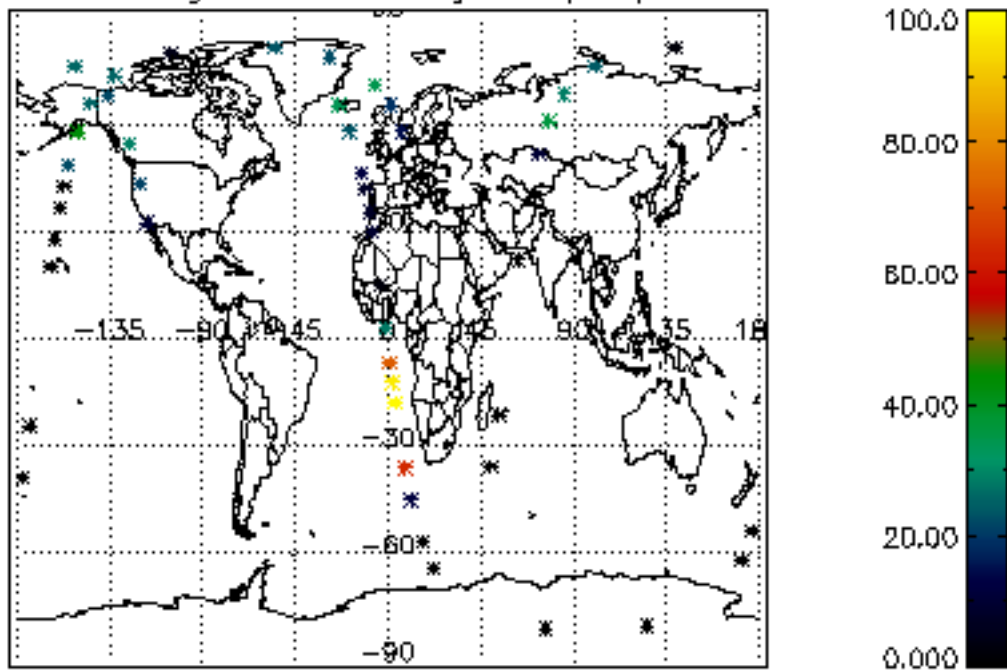




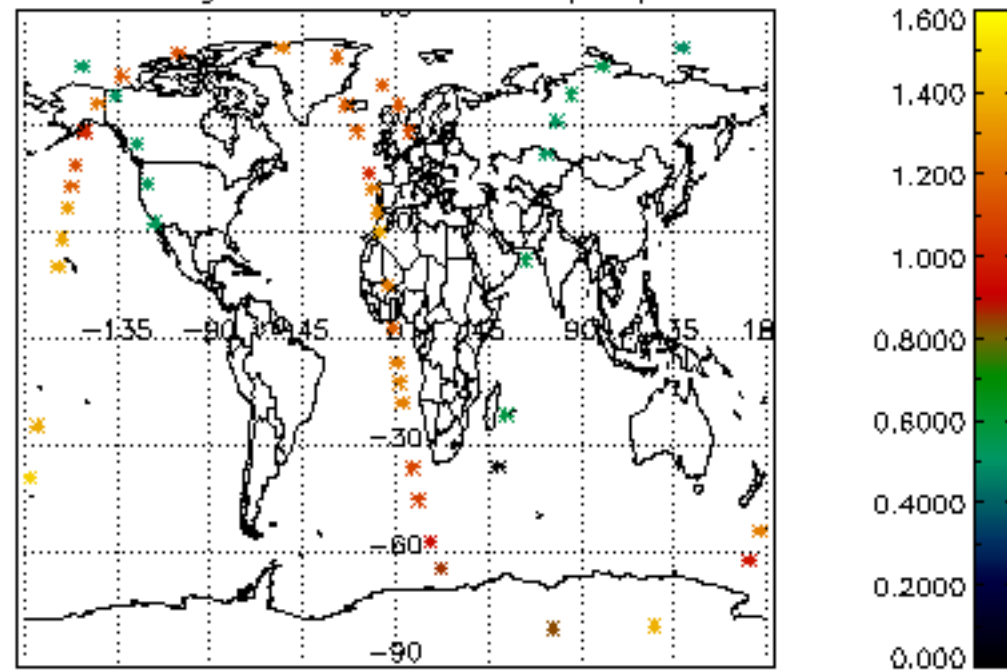




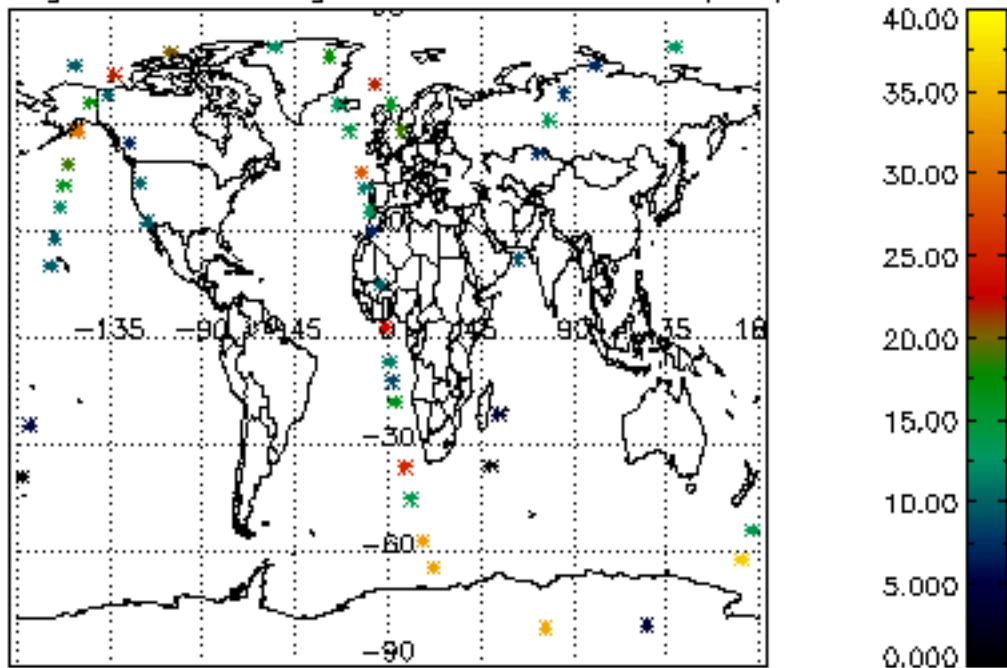
Percentage of cosmic ray hits per profile



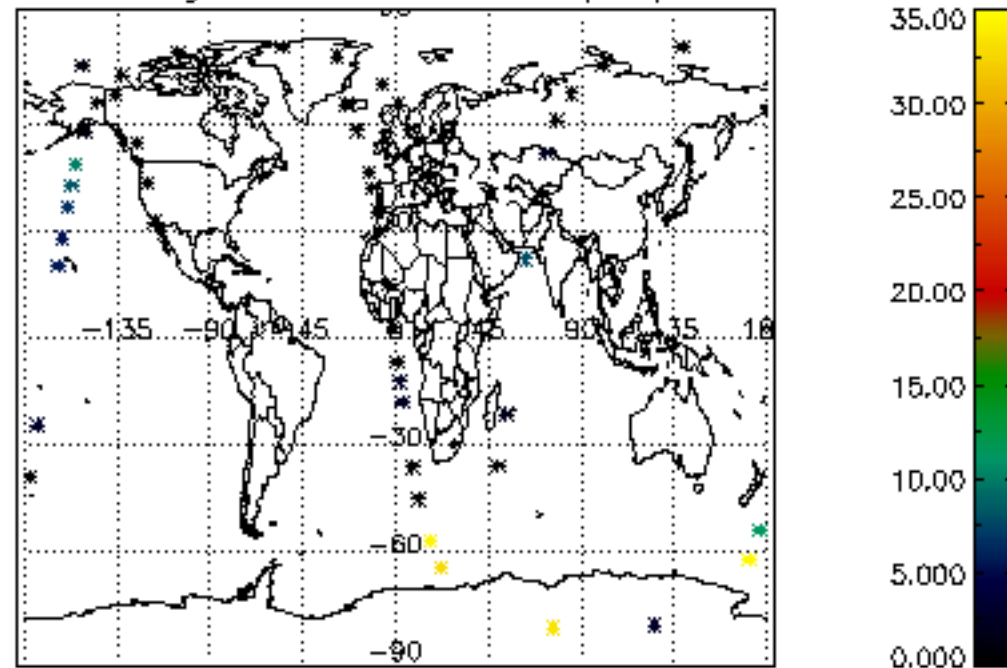
Percentage of datation errors per profile



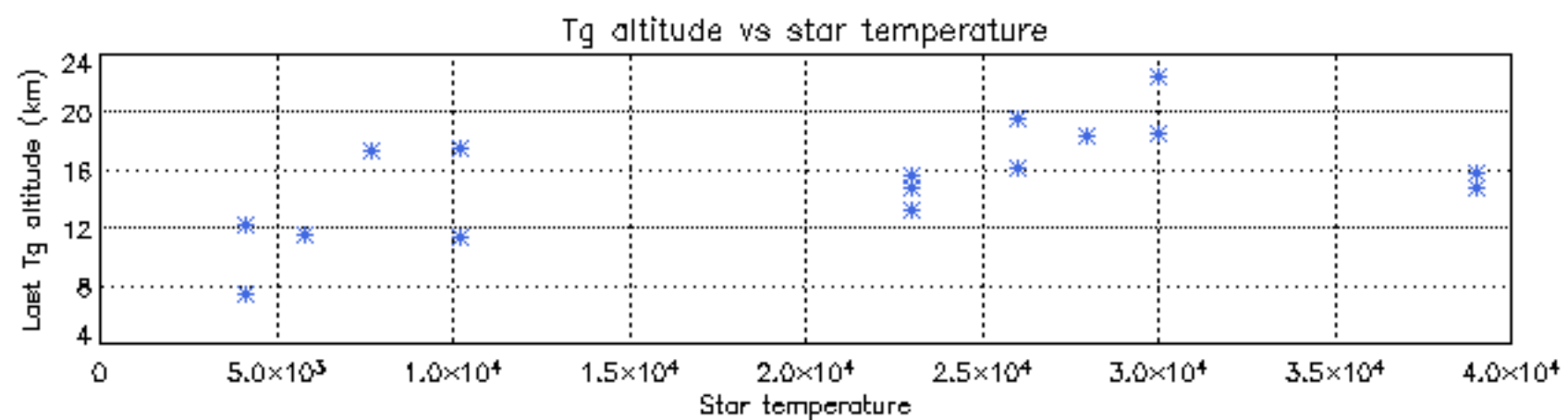
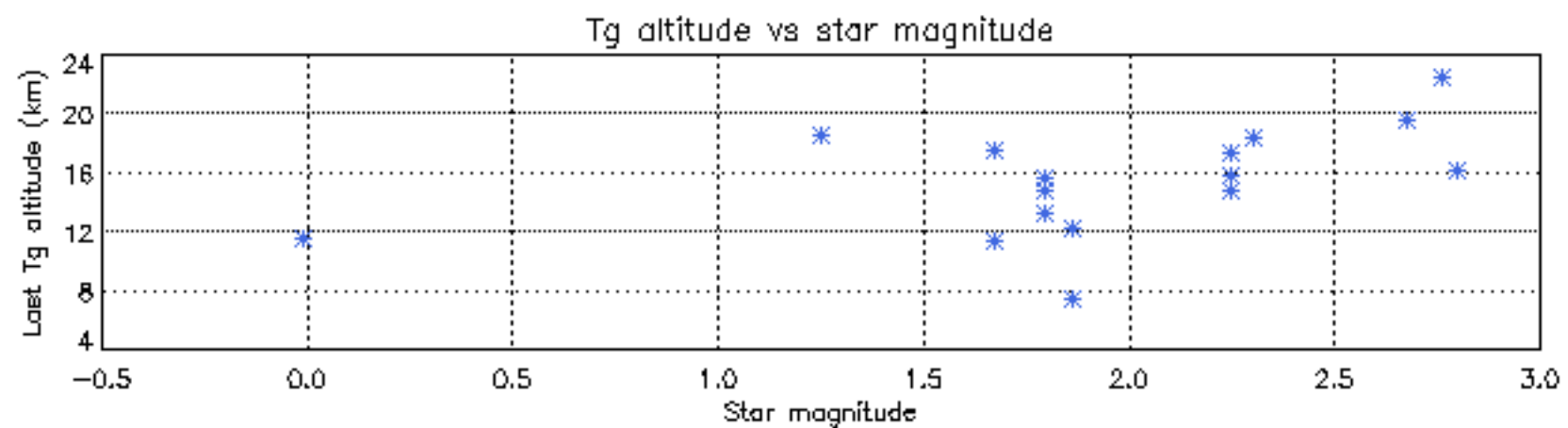
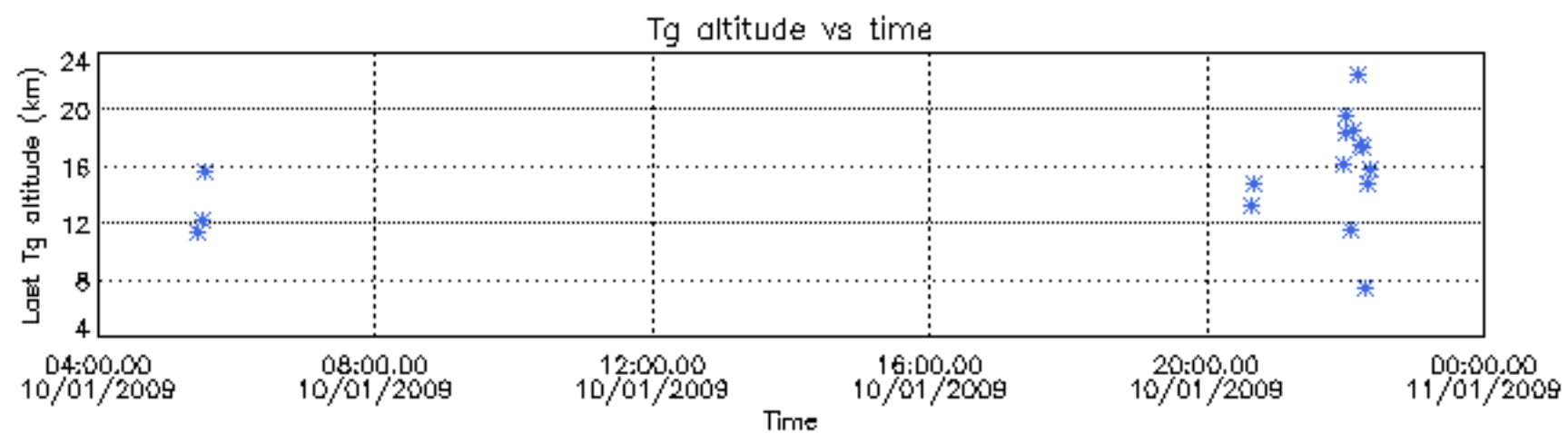
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

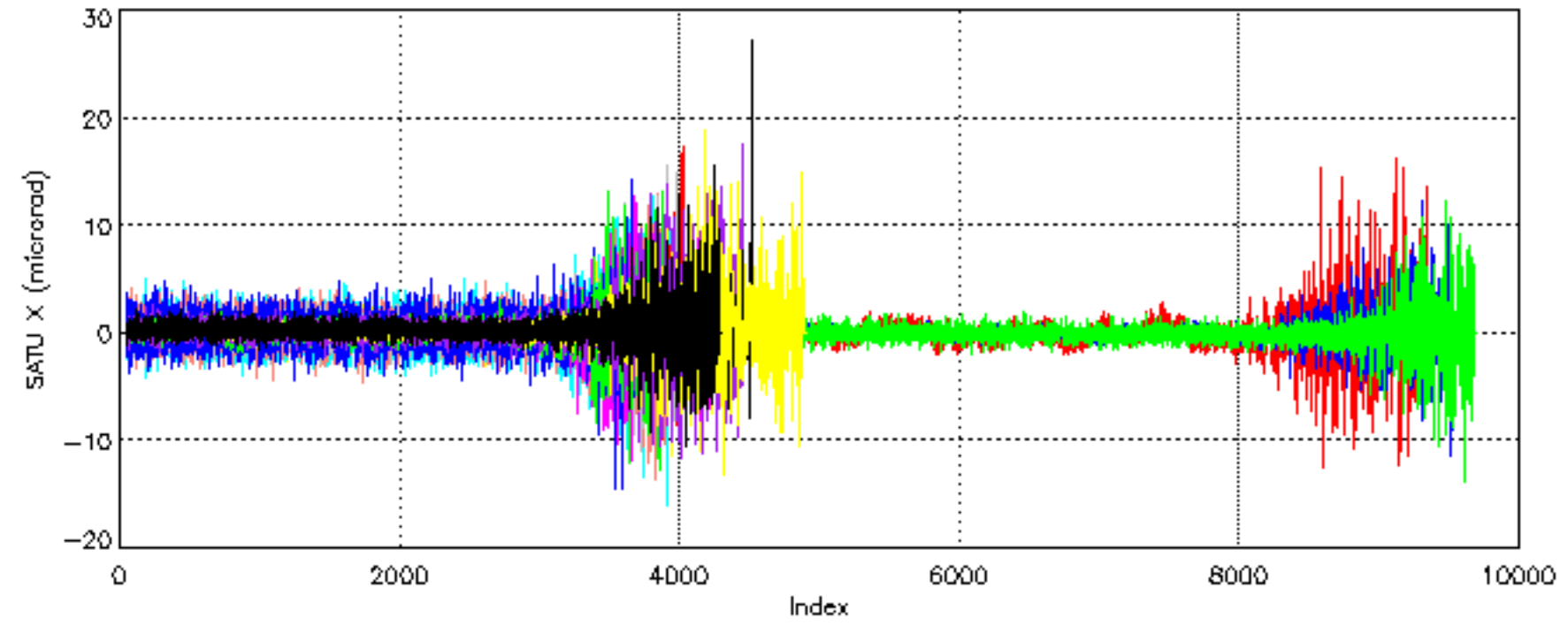


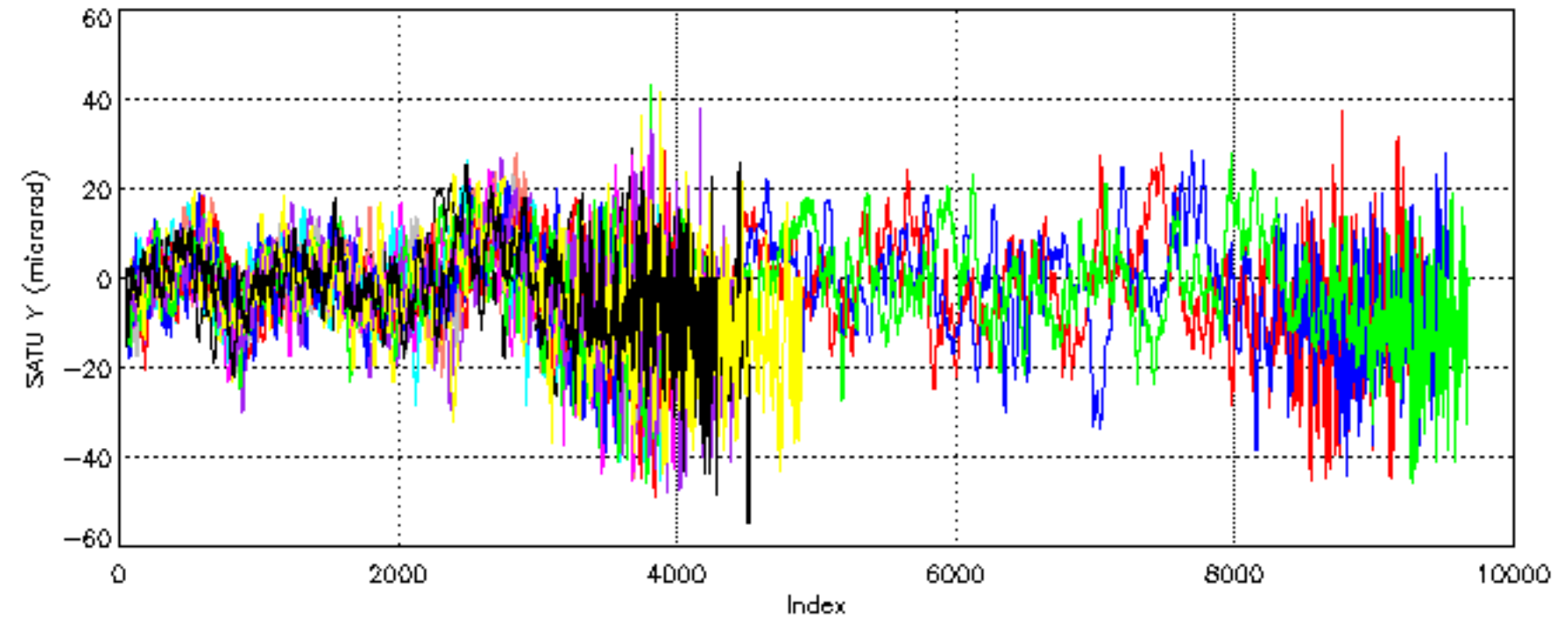
Tangent altitude at which the star is lost



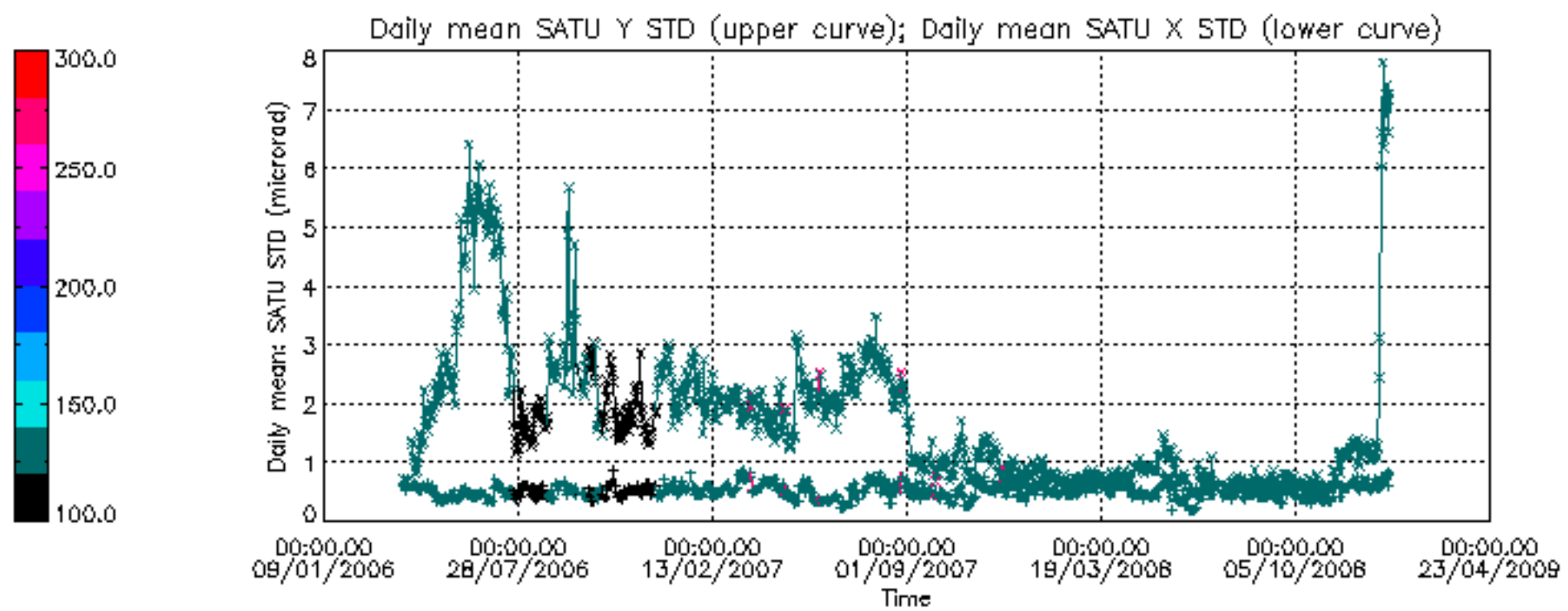












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 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757  
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13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803  
14; 4056.5; 04-JAN-2009 07:53:04; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;35803  
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17; 4906.8; 04-JAN-2009 08:07:14; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;35803  
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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  
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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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6; 2474.7; 04-JAN-2009 09:07:18; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35804  
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 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  
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 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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 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  
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 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  
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 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

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 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  
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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  
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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  
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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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17; 4907.9; 04-JAN-2009 14:49:38; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35807  
18; 5043.9; 04-JAN-2009 14:51:55; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35807  
19; 5220.9; 04-JAN-2009 14:54:51; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;35807  
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 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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 27; 3676.4; 09-JAN-2009 00:06:50; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 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  
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 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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 27; 4635.5; 13-JAN-2009 23:25:20; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;35941  
 28; 4961.4; 13-JAN-2009 23:30:46; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;35941  
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 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  
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 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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 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  
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 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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 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  
 9; 3426.4; 24-JAN-2009 12:15:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36092  
 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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 12; 4085.3; 24-JAN-2009 12:26:34; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 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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 26; 6543.1; 24-JAN-2009 13:07:31; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36092  
 27; 6691.7; 24-JAN-2009 13:10:00; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;36092  
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 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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 9; 2676.8; 24-JAN-2009 13:43:41; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;36093  
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13; -185.4; 25-JAN-2009 07:22:34; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;36103
14; -62.3; 25-JAN-2009 07:24:37; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36103
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16; 146.2; 25-JAN-2009 07:28:06; Dark ; 54.0; 4; Alp1Cen ; -0.01; 5800;occ; 108; 0;36104

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 19; 516.3; 25-JAN-2009 07:34:16; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36104  
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 21; 791.3; 25-JAN-2009 07:38:51; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36104  
 22; 899.3; 25-JAN-2009 07:40:39; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;36104  
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 25; 1270.5; 25-JAN-2009 07:46:50; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;36104  
 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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 30; 6827.6; 25-JAN-2009 09:19:27; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;36104  
 31; 6935.8; 25-JAN-2009 09:21:15; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;36104  
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 33; 7218.0; 25-JAN-2009 09:25:57; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36104  
 34; 7306.5; 25-JAN-2009 09:27:26; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36104  
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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  
 31; 7092.4; 25-JAN-2009 14:25:39; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36107  
 32; 7218.7; 25-JAN-2009 14:27:46; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;36107  
 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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 3; 1501.6; 25-JAN-2009 14:33:05; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;36108  
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 5; 1995.0; 25-JAN-2009 14:41:18; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;36108  
 6; 2189.3; 25-JAN-2009 14:44:32; Bright; 36.5; 44; 24Gam Gem ; 1.93; 11000;occ; 73; 0;36108  
 7; 2296.6; 25-JAN-2009 14:46:19; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36108  
 8; 2412.2; 25-JAN-2009 14:48:15; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36108  
 9; 2551.2; 25-JAN-2009 14:50:34; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;36108  
 10; 2679.0; 25-JAN-2009 14:52:42; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36108  
 11; 3426.8; 25-JAN-2009 15:05:10; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;36108  
 12; 3634.4; 25-JAN-2009 15:08:37; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36108  
 13; 3909.4; 25-JAN-2009 15:13:12; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36108  
 14; 4085.9; 25-JAN-2009 15:16:09; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;36108  
 15; 4291.4; 25-JAN-2009 15:19:34; Bright; 51.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 102; 0;36108  
 16; 4474.7; 25-JAN-2009 15:22:38; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36108  
 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  
 19; 5274.6; 25-JAN-2009 15:35:58; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;36108  
 20; 5517.8; 25-JAN-2009 15:40:01; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;36108  
 21; 5601.3; 25-JAN-2009 15:41:24; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;36108  
 22; 5853.6; 25-JAN-2009 15:45:37; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36108  
 23; 5977.5; 25-JAN-2009 15:47:40; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36108  
 24; 6083.4; 25-JAN-2009 15:49:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36108  
 25; 6184.7; 25-JAN-2009 15:51:08; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;36108  
 26; 6279.2; 25-JAN-2009 15:52:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36108  
 27; 6458.7; 25-JAN-2009 15:55:42; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;36108  
 28; 6556.5; 25-JAN-2009 15:57:19; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36108  
 29; 6696.0; 25-JAN-2009 15:59:39; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36108  
 30; 6829.2; 25-JAN-2009 16:01:52; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36108  
 31; 6937.1; 25-JAN-2009 16:03:40; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;36108  
 32; 7092.4; 25-JAN-2009 16:06:15; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36108  
 33; 7219.2; 25-JAN-2009 16:08:22; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36108  
 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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 3; 1501.7; 25-JAN-2009 16:13:41; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;36109  
 4; 1631.0; 25-JAN-2009 16:15:50; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36109  
 5; 1995.3; 25-JAN-2009 16:21:54; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;36109  
 6; 2189.5; 25-JAN-2009 16:25:08; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;36109  
 7; 2296.2; 25-JAN-2009 16:26:55; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36109  
 8; 2411.4; 25-JAN-2009 16:28:50; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;36109  
 9; 2550.8; 25-JAN-2009 16:31:10; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;36109  
 10; 2678.3; 25-JAN-2009 16:33:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36109  
 11; 3427.0; 25-JAN-2009 16:45:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36109  
 12; 3634.4; 25-JAN-2009 16:49:13; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;36109  
 13; 3909.2; 25-JAN-2009 16:53:48; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;36109

14; 4086.1; 25-JAN-2009 16:56:45; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;36109  
 15; 4291.4; 25-JAN-2009 17:00:10; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;36109  
 16; 4474.7; 25-JAN-2009 17:03:14; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;36109  
 17; 4773.9; 25-JAN-2009 17:08:13; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36109  
 18; 4900.6; 25-JAN-2009 17:10:19; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;36109  
 19; 5275.2; 25-JAN-2009 17:16:34; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;36109  
 20; 5517.9; 25-JAN-2009 17:20:37; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36109  
 21; 5600.9; 25-JAN-2009 17:22:00; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;36109  
 22; 5854.4; 25-JAN-2009 17:26:13; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;36109  
 23; 5978.4; 25-JAN-2009 17:28:17; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;36109  
 24; 6084.1; 25-JAN-2009 17:30:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36109  
 25; 6184.7; 25-JAN-2009 17:31:44; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;36109  
 26; 6280.0; 25-JAN-2009 17:33:19; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36109  
 27; 6459.0; 25-JAN-2009 17:36:18; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36109  
 28; 6556.9; 25-JAN-2009 17:37:56; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36109  
 29; 6696.0; 25-JAN-2009 17:40:15; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36109  
 30; 6830.0; 25-JAN-2009 17:42:29; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36109  
 31; 6937.5; 25-JAN-2009 17:44:16; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36109

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 2; 1056.8; 25-JAN-2009 17:46:52; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36110  
 3; 1183.1; 25-JAN-2009 17:48:58; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;36110  
 4; 1271.3; 25-JAN-2009 17:50:26; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;36110  
 5; 1419.4; 25-JAN-2009 17:52:54; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;36110  
 6; 1501.9; 25-JAN-2009 17:54:17; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36110  
 7; 1631.2; 25-JAN-2009 17:56:26; Dark ; 50.5; 1; 9Alp CMa ;-1.44; 11000;occ; 101; 0;36110  
 8; 1994.6; 25-JAN-2009 18:02:29; Dark ; 52.0; 8; 10Alp CMI ; 0.40; 6500;occ; 104; 0;36110  
 9; 2189.6; 25-JAN-2009 18:05:44; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;36110  
 10; 2296.9; 25-JAN-2009 18:07:32; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36110  
 11; 2411.2; 25-JAN-2009 18:09:26; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36110  
 12; 2550.7; 25-JAN-2009 18:11:46; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36110  
 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  
 16; 3908.9; 25-JAN-2009 18:34:24; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;36110  
 17; 4086.1; 25-JAN-2009 18:37:21; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36110  
 18; 4291.5; 25-JAN-2009 18:40:46; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;36110  
 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  
 22; 5276.1; 25-JAN-2009 18:57:11; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;36110  
 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  
 25; 5855.2; 25-JAN-2009 19:06:50; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36110  
 26; 5978.7; 25-JAN-2009 19:08:54; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36110  
 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  
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 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  
 35; 7092.9; 25-JAN-2009 19:27:28; Dark ; 36.5; 34; Gam2Vel ; 1.79; 23000;occ; 73; 0;36110

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 5; 1501.9; 25-JAN-2009 19:34:53; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;36111  
 6; 1631.5; 25-JAN-2009 19:37:02; Dark ; 43.0; 1; 9Alp CMa ;-1.44; 11000;occ; 86; 0;36111  
 7; 1994.6; 25-JAN-2009 19:43:05; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;36111  
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 9; 2296.9; 25-JAN-2009 19:48:08; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36111  
 10; 2411.0; 25-JAN-2009 19:50:02; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36111  
 11; 2551.6; 25-JAN-2009 19:52:22; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;36111  
 12; 2679.2; 25-JAN-2009 19:54:30; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;36111  
 13; 3426.7; 25-JAN-2009 20:06:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36111

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 17; 4291.7; 25-JAN-2009 20:21:23; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;36111  
 18; 4475.0; 25-JAN-2009 20:24:26; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36111  
 19; 4774.3; 25-JAN-2009 20:29:25; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;36111  
 20; 4901.3; 25-JAN-2009 20:31:32; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36111  
 21; 5275.8; 25-JAN-2009 20:37:47; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;36111  
 22; 5518.9; 25-JAN-2009 20:41:50; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;36111  
 23; 5602.4; 25-JAN-2009 20:43:13; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;36111  
 24; 5855.7; 25-JAN-2009 20:47:27; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;36111  
 25; 5980.0; 25-JAN-2009 20:49:31; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36111

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 5; 1277.4; 27-JAN-2009 20:08:30; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;36140  
 6; 1402.1; 27-JAN-2009 20:10:35; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;36140  
 7; 1507.3; 27-JAN-2009 20:12:20; Dark ; 34.5; 179; 240mi2CMa ; 3.03; 24000;occ; 69; 0;36140  
 8; 1993.3; 27-JAN-2009 20:20:26; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;36140  
 9; 2192.1; 27-JAN-2009 20:23:45; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36140  
 10; 2300.6; 27-JAN-2009 20:25:33; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36140  
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 13; 2683.0; 27-JAN-2009 20:31:56; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36140  
 14; 3427.3; 27-JAN-2009 20:44:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36140  
 15; 3627.4; 27-JAN-2009 20:47:40; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;36140  
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 17; 4086.6; 27-JAN-2009 20:55:19; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;36140  
 18; 4296.4; 27-JAN-2009 20:58:49; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;36140  
 19; 4479.1; 27-JAN-2009 21:01:52; Bright; 10.0; 133; 40Zet Her ; 2.81; 6000;occ; 20; 0;36140  
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 21; 4909.3; 27-JAN-2009 21:09:02; Bright; 52.5; 126; 60Bet Oph ; 2.77; 4250;occ; 105; 0;36140

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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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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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1; 1992.8; 31-JAN-2009 11:31:34; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36192  
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