

# GOMOS Daily Report 01-JUN-2007

## 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	03JUN2007 05:33:19
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

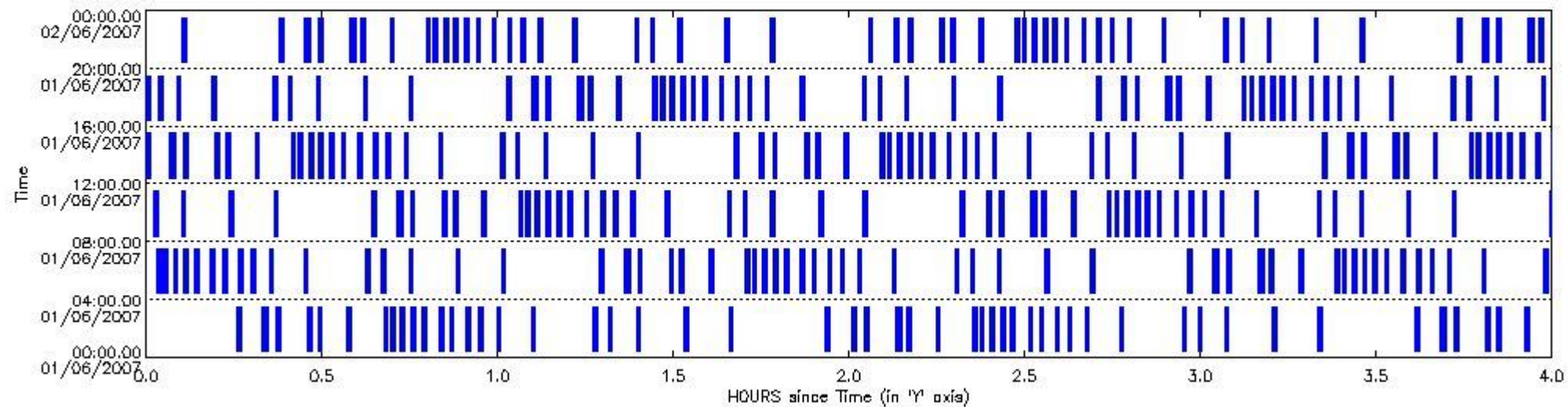
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

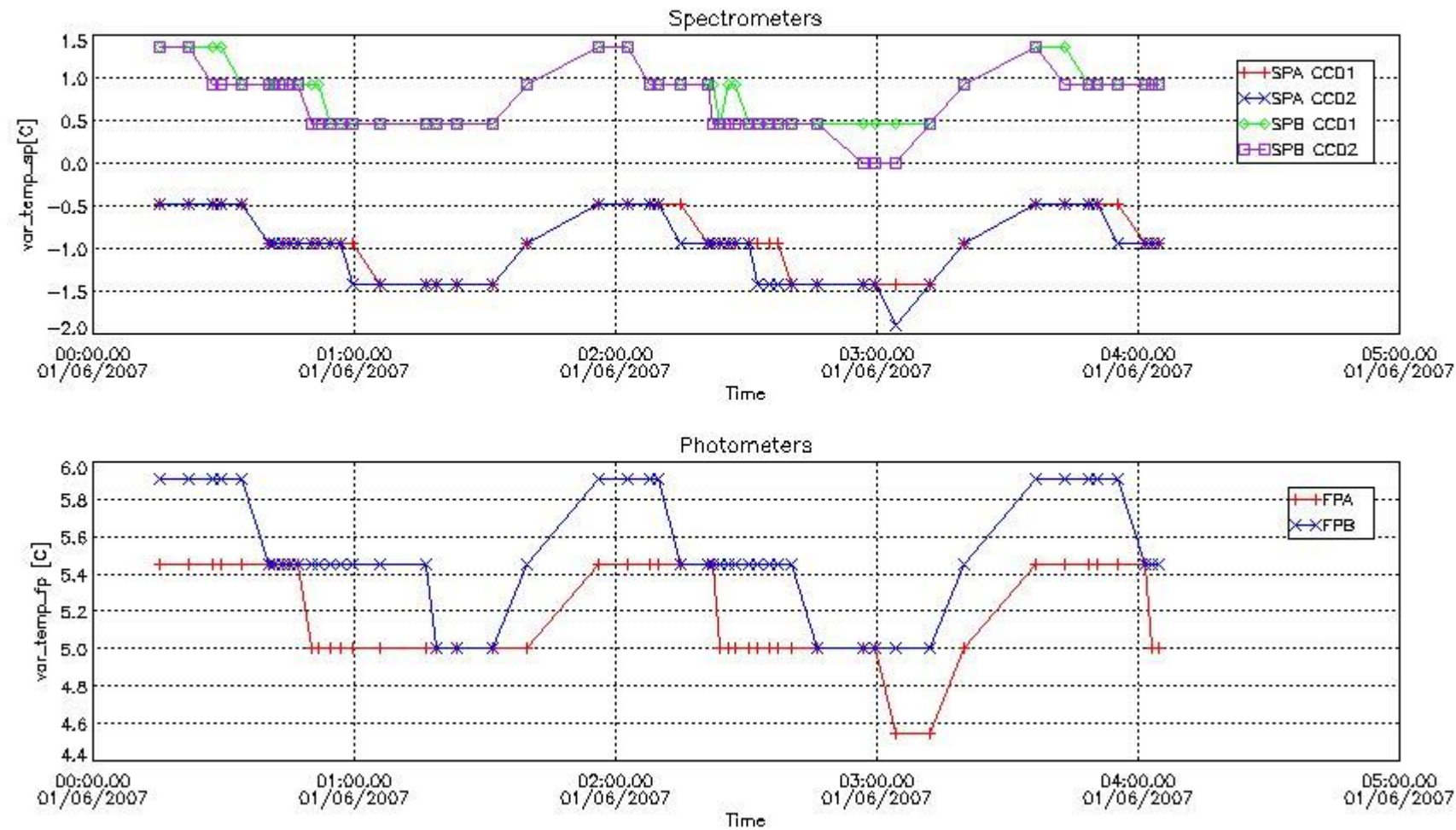
No missing products.

### 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_1PNPDE20070601_001523_000000462058_00345_27453_0597.N1	01-JUN-2007 00:15:23	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	27453	No
2	GOM_TRA_1PNPDE20070601_002206_000000452058_00345_27453_0598.N1	01-JUN-2007 00:22:06	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	27453	No
3	GOM_TRA_1PNPDE20070601_002723_000000482058_00346_27454_0599.N1	01-JUN-2007 00:27:23	Dark	48.000	63	Bet Gru	2.1500	2800.0	96	27454	No
4	GOM_TRA_1PNPDE20070601_002915_000000442058_00346_27454_0600.N1	01-JUN-2007 00:29:15	Dark	43.500	31	Alp Gru	1.7340	15200.	87	27454	No
5	GOM_TRA_1PNPDE20070601_003415_000000422058_00346_27454_0601.N1	01-JUN-2007 00:34:15	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	27454	No
6	GOM_TRA_1PNPDE20070601_004029_000000392058_00346_27454_0602.N1	01-JUN-2007 00:40:29	Straylight	38.500	141	Bet Ara	2.8400	4600.0	77	27454	No
7	GOM_TRA_1PNPDE20070601_004144_000000422058_00346_27454_0603.N1	01-JUN-2007 00:41:44	Straylight	41.500	147	Alp Ara	2.8770	26000.	83	27454	No
8	GOM_TRA_1PNPDE20070601_004325_000000462058_00346_27454_0604.N1	01-JUN-2007 00:43:25	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27454	No
9	GOM_TRA_1PNPDE20070601_004513_000000462058_00346_27454_0605.N1	01-JUN-2007 00:45:13	Twilight_stray	46.000	25	35Lam Sco	1.6200	28000.	92	27454	No
10	GOM_TRA_1PNPDE20070601_004700_000000492058_00346_27454_0606.N1	01-JUN-2007 00:47:00	Twilight_stray	49.000	75	26Eps Sco	2.2910	4250.0	98	27454	No
11	GOM_TRA_1PNPDE20070601_005001_000000392058_00346_27454_0607.N1	01-JUN-2007 00:50:01	Bright	39.000	156	20Sig Sco	2.9030	28000.	78	27454	No
12	GOM_TRA_1PNPDE20070601_005154_000000382058_00346_27454_0608.N1	01-JUN-2007 00:51:54	Bright	37.500	97	8Bet1Sco	2.5610	30000.	75	27454	No

13	GOM_TRA_1PNPDE20070601_005434_000000412058_00346_27454_0609.N1	01-JUN-2007 00:54:34	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	27454	No
14	GOM_TRA_1PNPDE20070601_005645_000000392058_00346_27454_0610.N1	01-JUN-2007 00:56:45	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	27454	No
15	GOM_TRA_1PNPDE20070601_005946_000000372058_00346_27454_0611.N1	01-JUN-2007 00:59:46	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27454	No
16	GOM_TRA_1PNPDE20070601_010541_000000362058_00346_27454_0612.N1	01-JUN-2007 01:05:41	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27454	No
17	GOM_TRA_1PNPDE20070601_011618_000000382058_00346_27454_0613.N1	01-JUN-2007 01:16:18	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	27454	No
18	GOM_TRA_1PNPDE20070601_011857_000000372058_00346_27454_0614.N1	01-JUN-2007 01:18:57	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27454	No
19	GOM_TRA_1PNPDE20070601_012338_000000342058_00346_27454_0615.N1	01-JUN-2007 01:23:38	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27454	No
20	GOM_TRA_1PNPDE20070601_013141_000000552058_00346_27454_0616.N1	01-JUN-2007 01:31:41	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	27454	No
21	GOM_TRA_1PNPDE20070601_013925_000000432058_00346_27454_0617.N1	01-JUN-2007 01:39:25	Bright	43.000	53	43Bet And	2.0480	3300.0	86	27454	No
22	GOM_TRA_1PNPDE20070601_015600_000000492058_00346_27454_0753.N1	01-JUN-2007 01:56:00	Dark	49.000	52	16Bet Cet	2.0370	4500.0	98	27454	No
23	GOM_TRA_1PNPDE20070601_020242_000000432058_00346_27454_0754.N1	01-JUN-2007 02:02:42	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	27454	No
24	GOM_TRA_1PNPDE20070601_020800_000000602058_00347_27455_0755.N1	01-JUN-2007 02:08:00	Dark	60.000	63	Bet Gru	2.1500	2800.0	120	27455	No
25	GOM_TRA_1PNPDE20070601_020952_000000472058_00347_27455_0756.N1	01-JUN-2007 02:09:52	Dark	47.000	31	Alp Gru	1.7340	15200.	94	27455	No
26	GOM_TRA_1PNPDE20070601_021452_000000422058_00347_27455_0757.N1	01-JUN-2007 02:14:52	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	27455	No
27	GOM_TRA_1PNPDE20070601_022105_000000442058_00347_27455_0758.N1	01-JUN-2007 02:21:05	Straylight	43.500	141	Bet Ara	2.8400	4600.0	87	27455	No
28	GOM_TRA_1PNPDE20070601_022220_000000402058_00347_27455_0759.N1	01-JUN-2007 02:22:20	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	27455	No
29	GOM_TRA_1PNPDE20070601_022401_000000472058_00347_27455_0760.N1	01-JUN-2007 02:24:01	Straylight	46.500	40	The Sco	1.8590	7100.0	93	27455	No
30	GOM_TRA_1PNPDE20070601_022549_000000492058_00347_27455_0761.N1	01-JUN-2007 02:25:49	Twilight	48.500	25	35Lam Sco	1.6200	28000.	97	27455	No
31	GOM_TRA_1PNPDE20070601_022736_000000472058_00347_27455_0762.N1	01-JUN-2007 02:27:36	Twilight	47.000	75	26Eps Sco	2.2910	4250.0	94	27455	No
32	GOM_TRA_1PNPDE20070601_023038_000000402058_00347_27455_0763.N1	01-JUN-2007 02:30:38	Bright	40.000	156	20Sig Sco	2.9030	28000.	80	27455	No
33	GOM_TRA_1PNPDE20070601_023230_000000392058_00347_27455_0764.N1	01-JUN-2007 02:32:30	Bright	39.000	97	8Bet1Sco	2.5610	30000.	78	27455	No
34	GOM_TRA_1PNPDE20070601_023510_000000422058_00347_27455_0765.N1	01-JUN-2007 02:35:10	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	27455	No
35	GOM_TRA_1PNPDE20070601_023721_000000402058_00347_27455_0766.N1	01-JUN-2007 02:37:21	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	27455	No
36	GOM_TRA_1PNPDE20070601_024022_000000372058_00347_27455_0767.N1	01-JUN-2007 02:40:22	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27455	No
37	GOM_TRA_1PNPDE20070601_024617_000000372058_00347_27455_0768.N1	01-JUN-2007 02:46:17	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	27455	No
38	GOM_TRA_1PNPDE20070601_025654_000000382058_00347_27455_0769.N1	01-JUN-2007 02:56:54	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	27455	No
39	GOM_TRA_1PNPDE20070601_025933_000000362058_00347_27455_0770.N1	01-JUN-2007 02:59:33	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27455	No
40	GOM_TRA_1PNPDE20070601_030414_000000362058_00347_27455_0771.N1	01-JUN-2007 03:04:14	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27455	No
41	GOM_TRA_1PNPDE20070601_031217_000000462058_00347_27455_0960.N1	01-JUN-2007 03:12:17	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	27455	No
42	GOM_TRA_1PNPDE20070601_032001_000000412058_00347_27455_0961.N1	01-JUN-2007 03:20:01	Bright	41.000	53	43Bet And	2.0480	3300.0	82	27455	No
43	GOM_TRA_1PNPDE20070601_033636_000000482058_00347_27455_0962.N1	01-JUN-2007 03:36:36	Dark	48.000	52	16Bet Cet	2.0370	4500.0	96	27455	No
44	GOM_TRA_1PNPDE20070601_034319_000000452058_00347_27455_0963.N1	01-JUN-2007 03:43:19	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	27455	No
45	GOM_TRA_1PNPDE20070601_034837_000000562058_00348_27456_0964.N1	01-JUN-2007 03:48:37	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	27456	No
46	GOM_TRA_1PNPDE20070601_035029_000000472058_00348_27456_0965.N1	01-JUN-2007 03:50:29	Dark	46.500	31	Alp Gru	1.7340	15200.	93	27456	No
47	GOM_TRA_1PNPDE20070601_035528_000000432058_00348_27456_0966.N1	01-JUN-2007 03:55:28	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27456	No
48	GOM_TRA_1PNPDE20070601_040142_000000452058_00348_27456_0967.N1	01-JUN-2007 04:01:42	Straylight	45.000	141	Bet Ara	2.8400	4600.0	90	27456	No
49	GOM_TRA_1PNPDE20070601_040256_000000392058_00348_27456_0968.N1	01-JUN-2007 04:02:56	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	27456	No
50	GOM_TRA_1PNPDE20070601_040438_000000452058_00348_27456_0969.N1	01-JUN-2007 04:04:38	Straylight	44.500	40	The Sco	1.8590	7100.0	89	27456	No

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



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

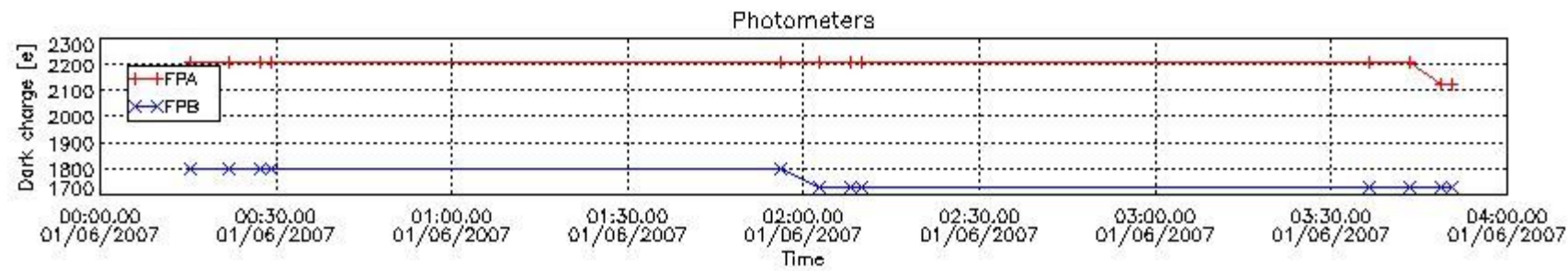
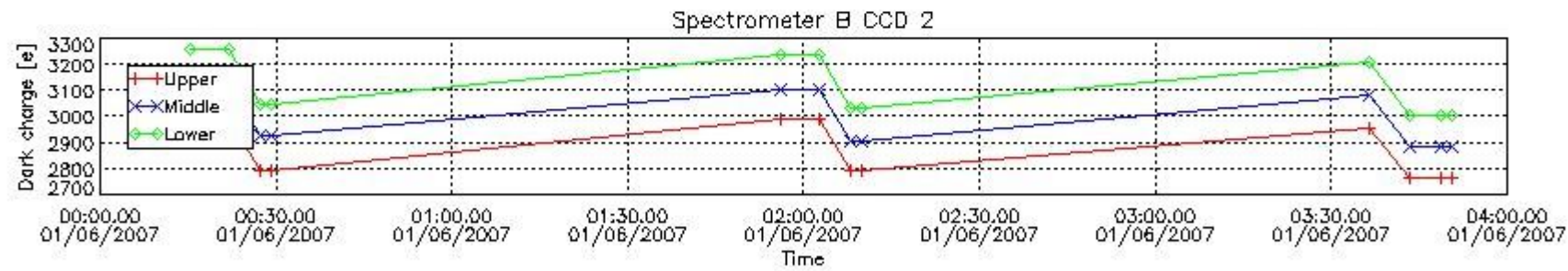
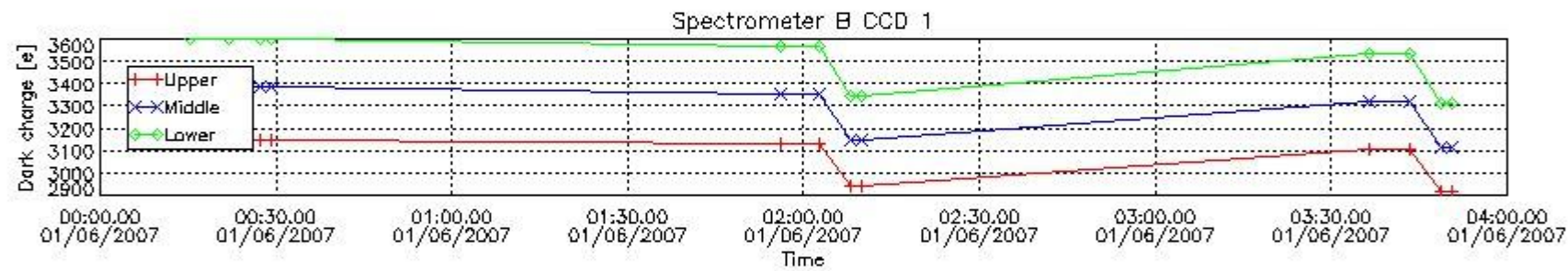
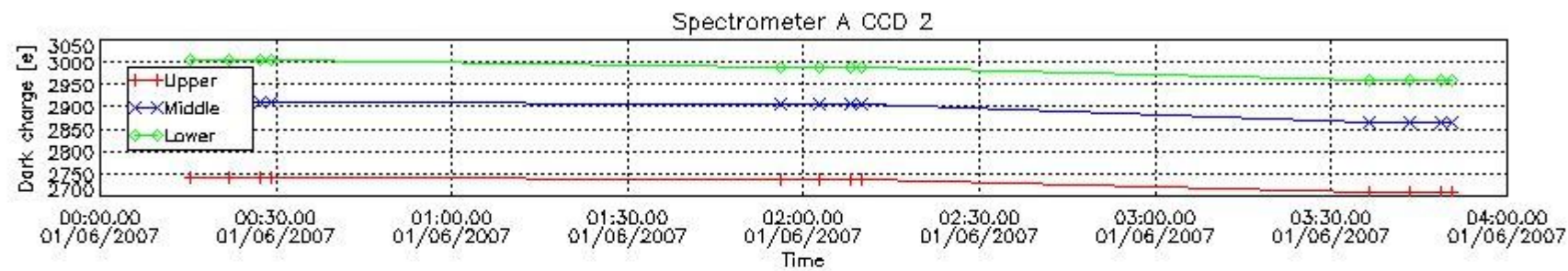
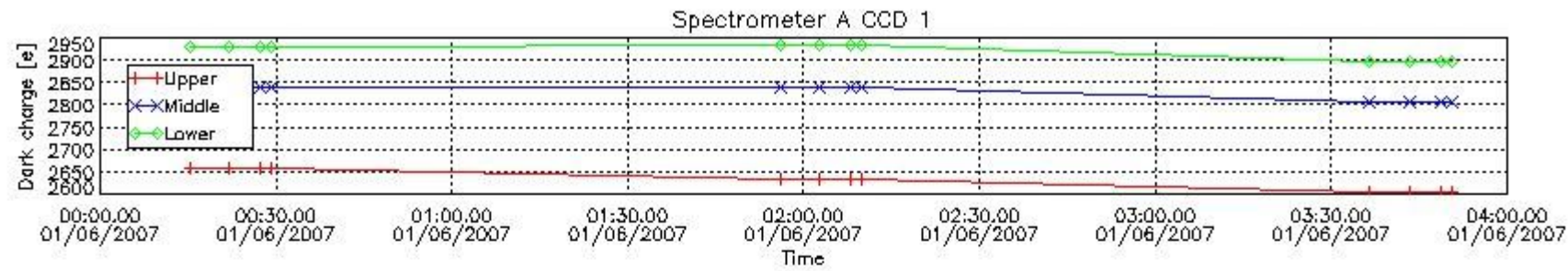
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





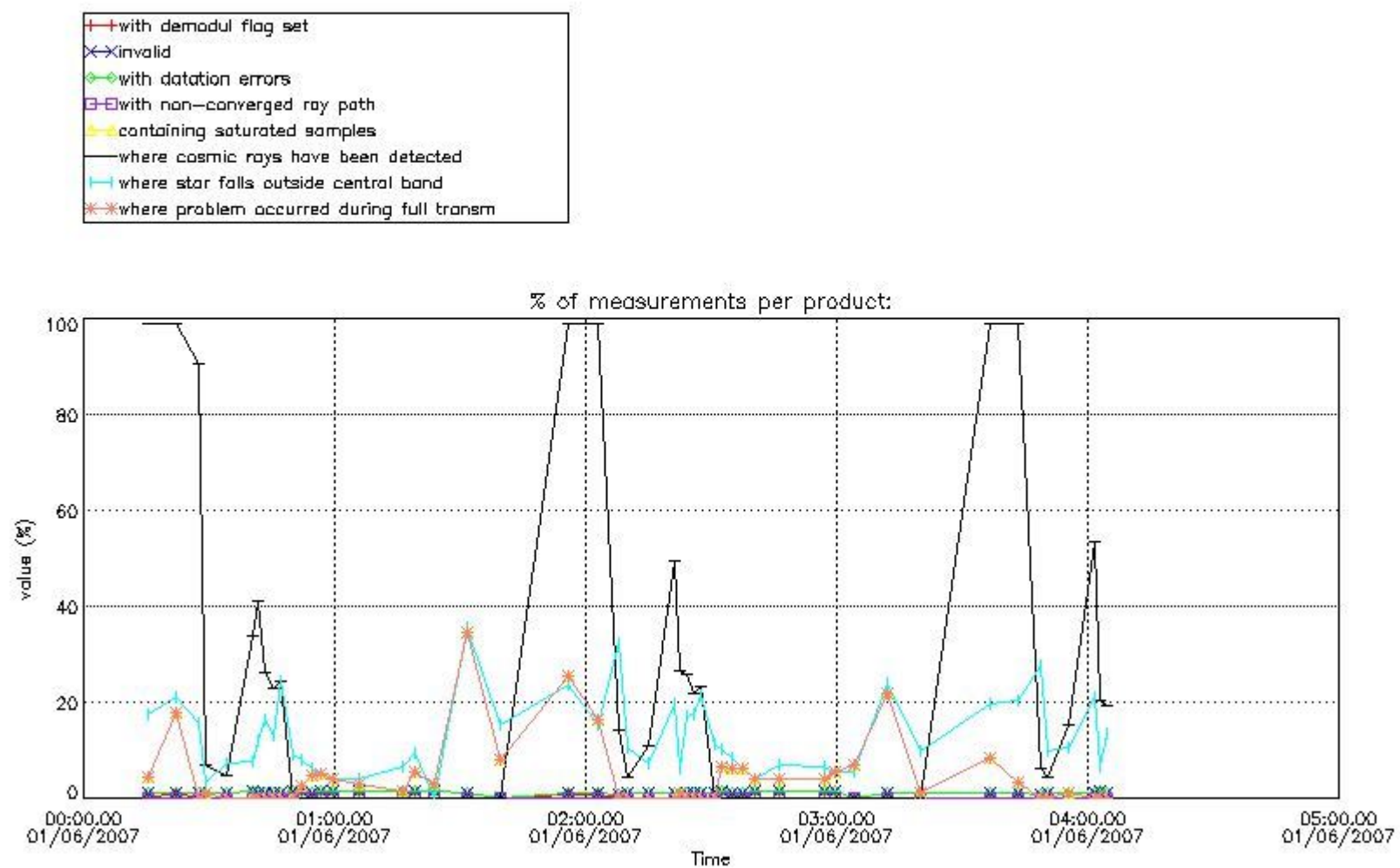
## 5. Demodulation flag and quality information monitoring

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:

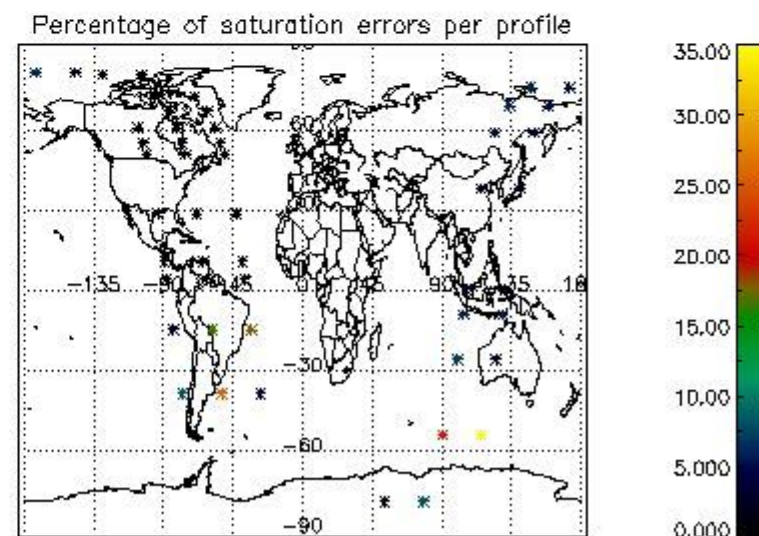
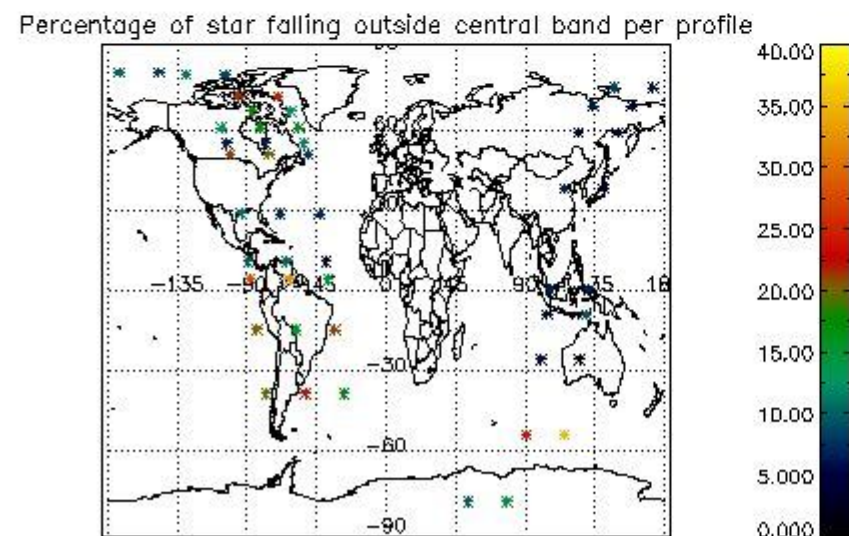
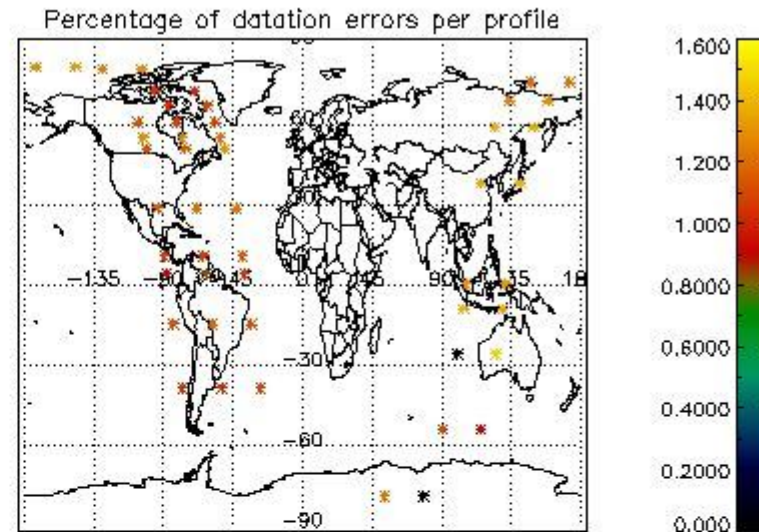
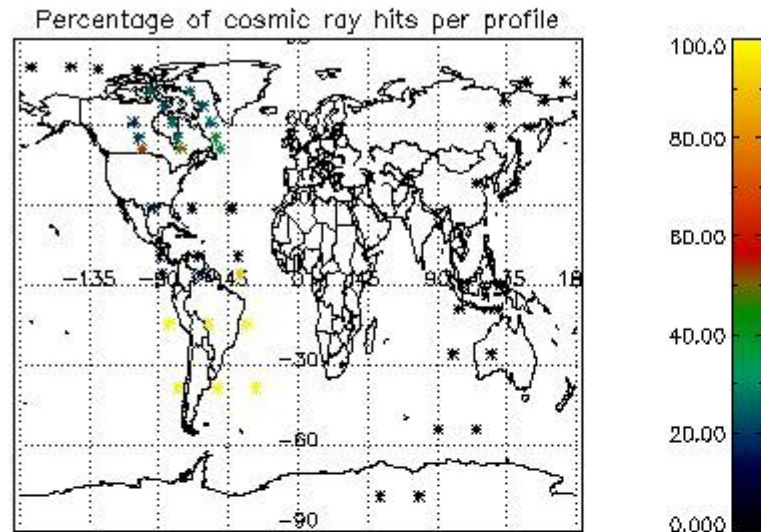
At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





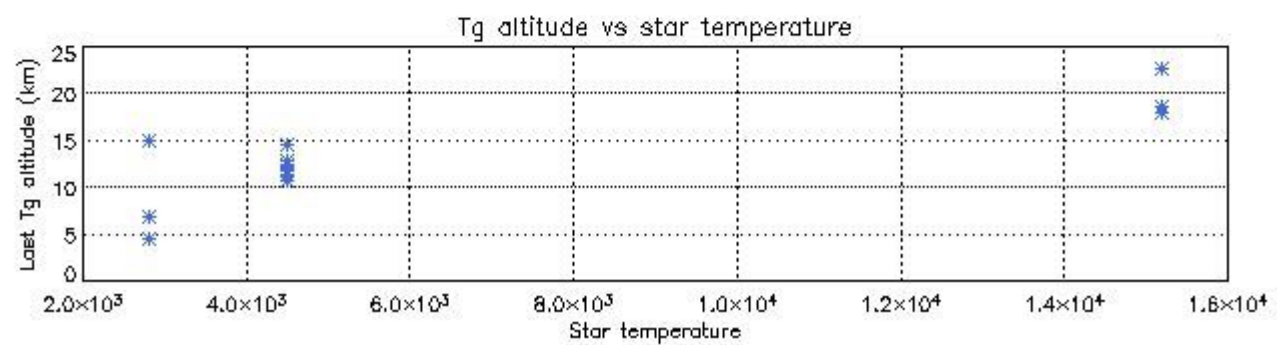
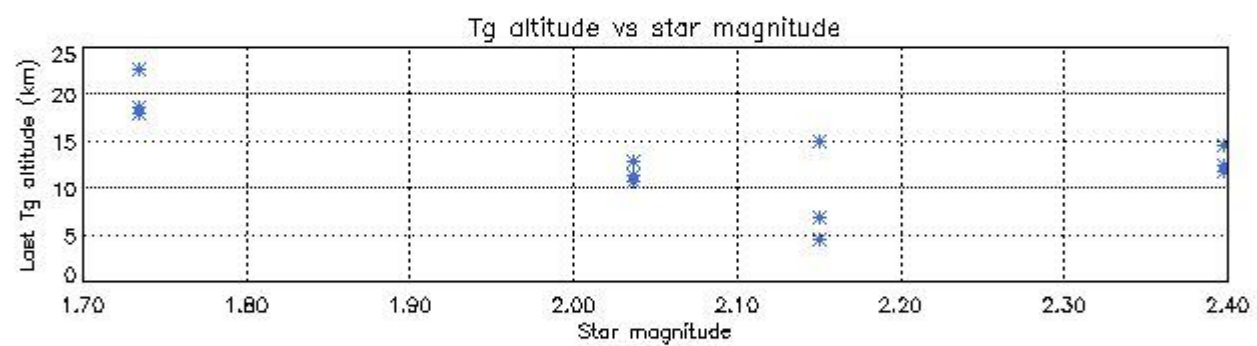
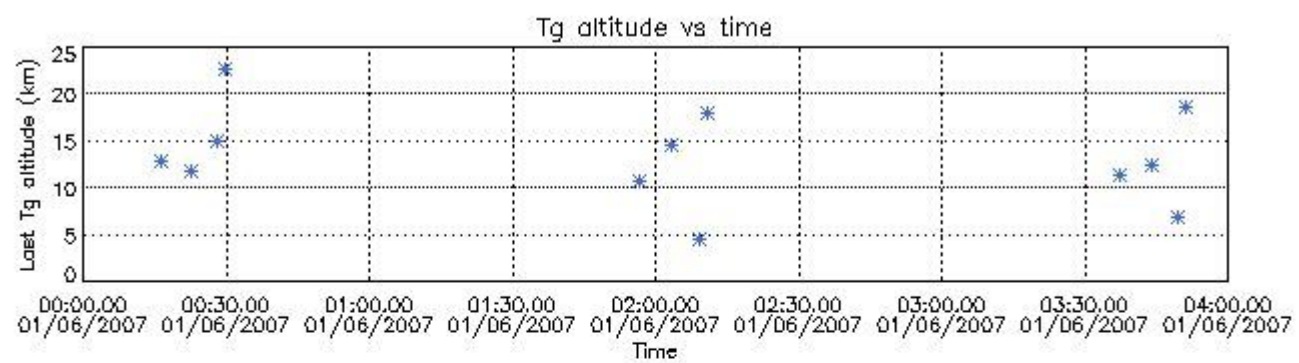
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.240	19.293	NaN
St. deviation:	5.0012	4.5253	NaN
Maximum:	22.658	24.897	NaN
Minimum:	4.4649	3.9131	NaN
Number of data:	12.000	22.000	NaN

### 6.2 Plot for DARK limb products

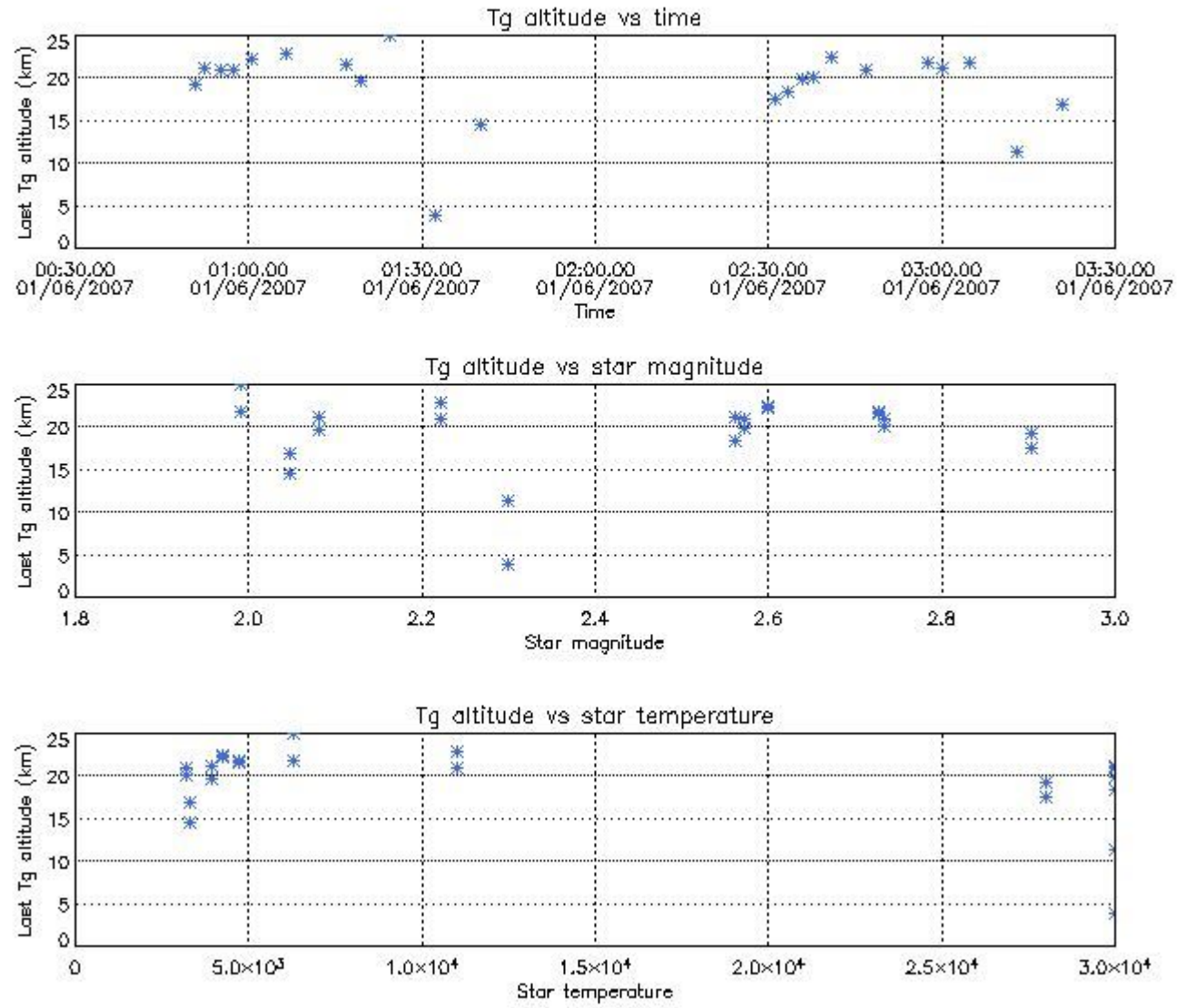
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

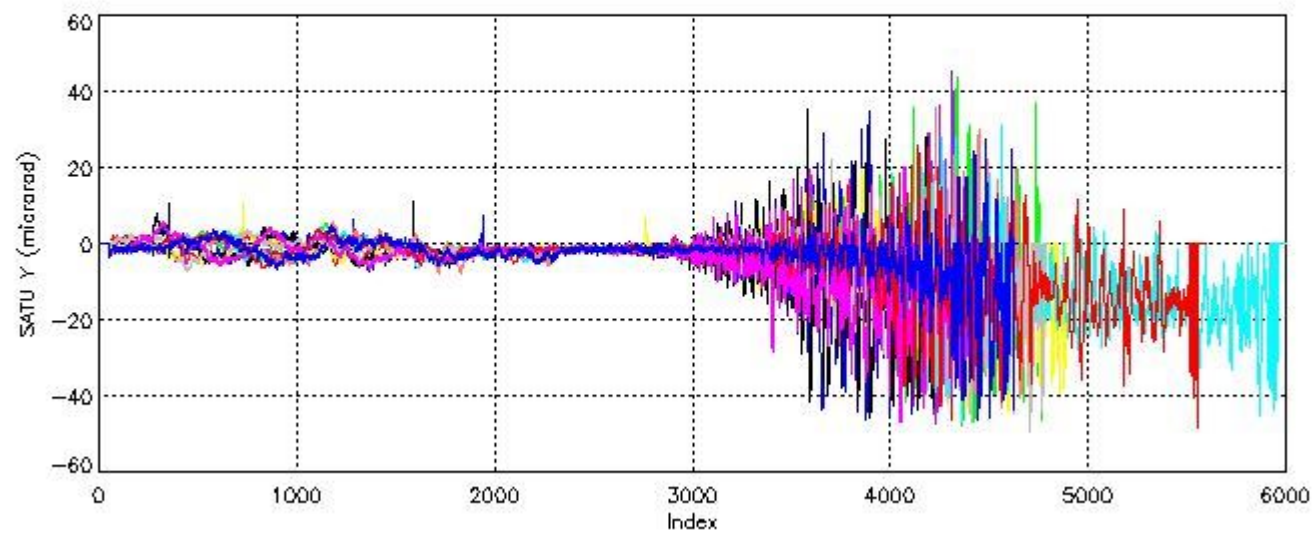
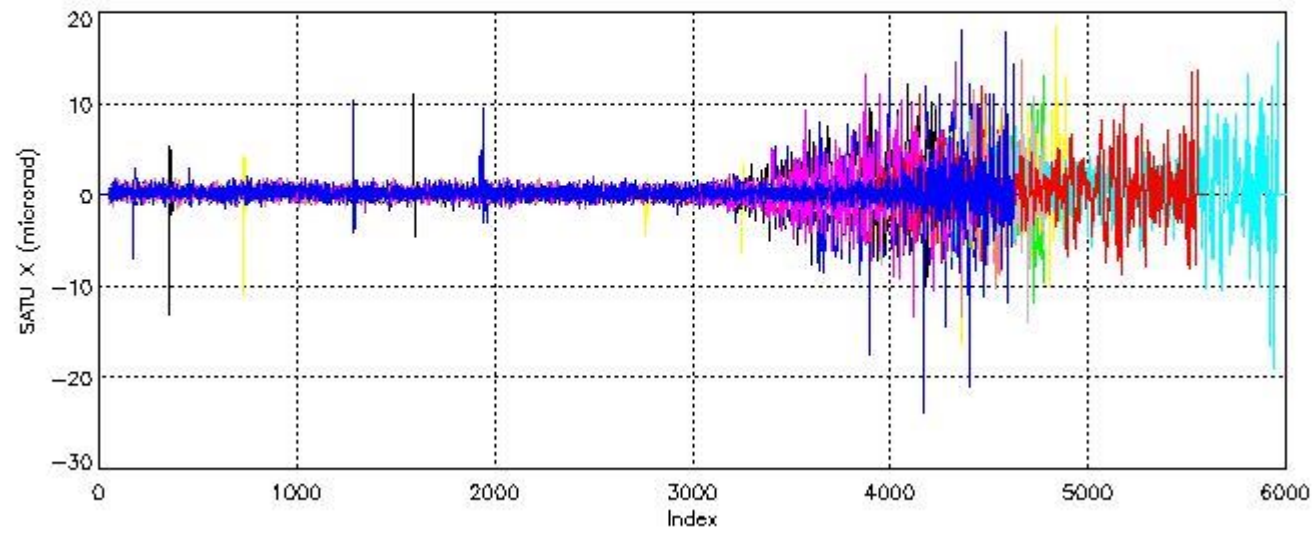


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.17482	-0.83428	0.18648	-0.70664
St. deviation:	0.37945	2.1635	0.70650	2.6035
Maximum:	5.3000	10.400	4.2000	7.5000
Minimum:	-13.200	-7.3000	-4.7000	-9.3000

Number of data:	12500.	12500.	19350.	19350.
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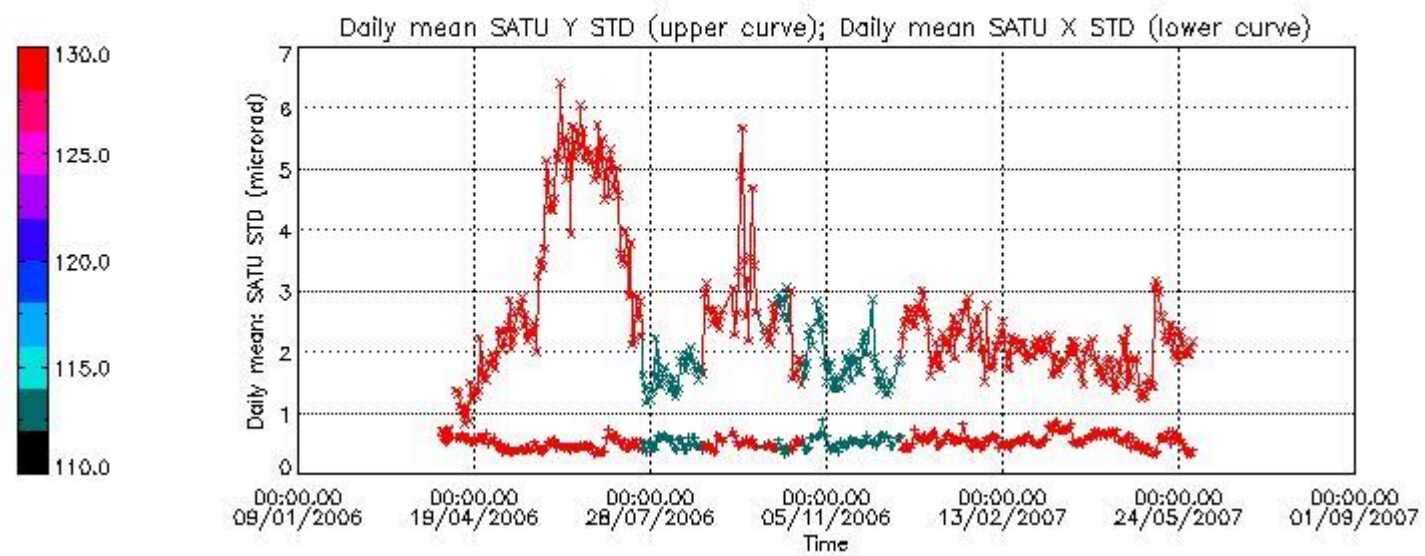
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

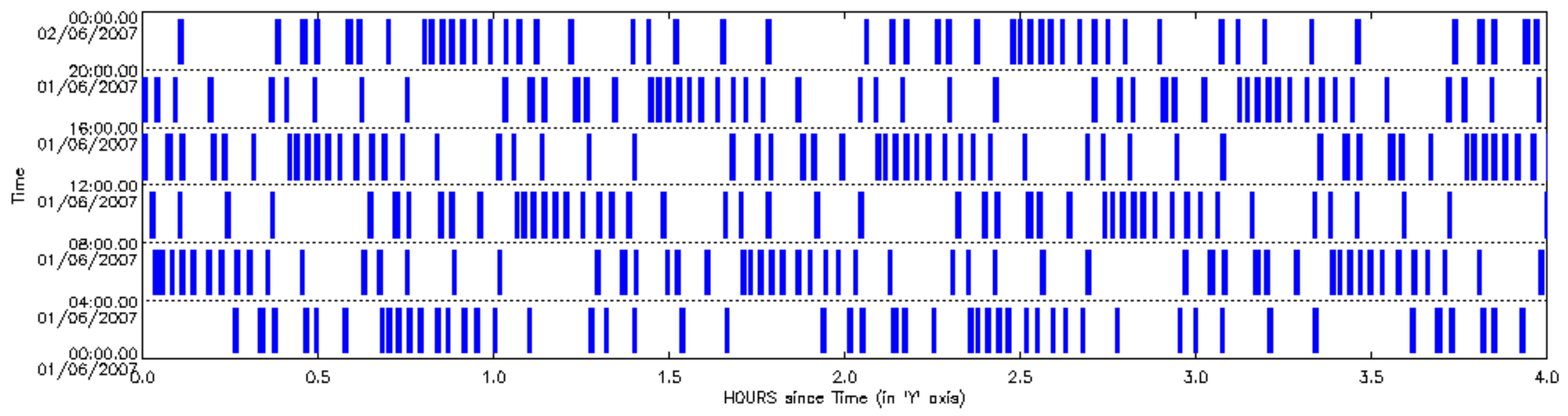


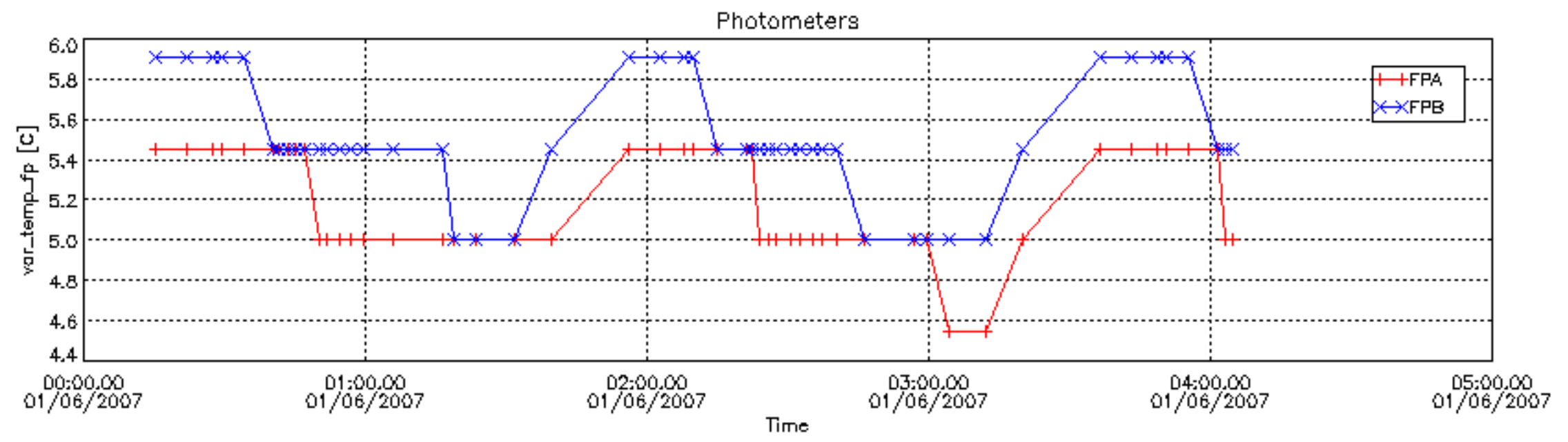
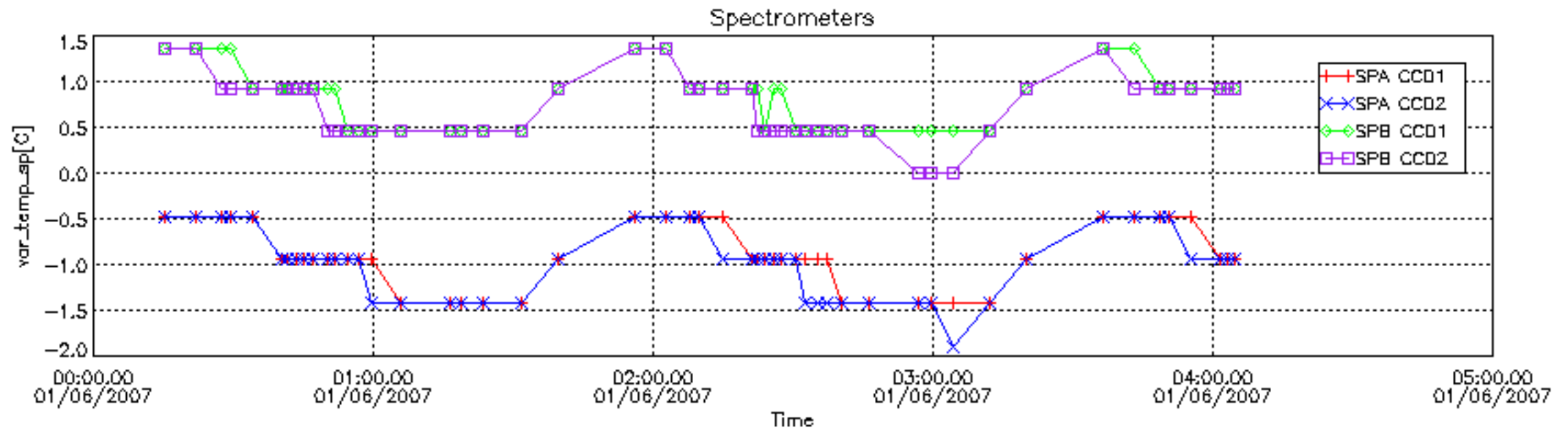
### 8. Auxiliary Data Files used for the production reported in section 2.4

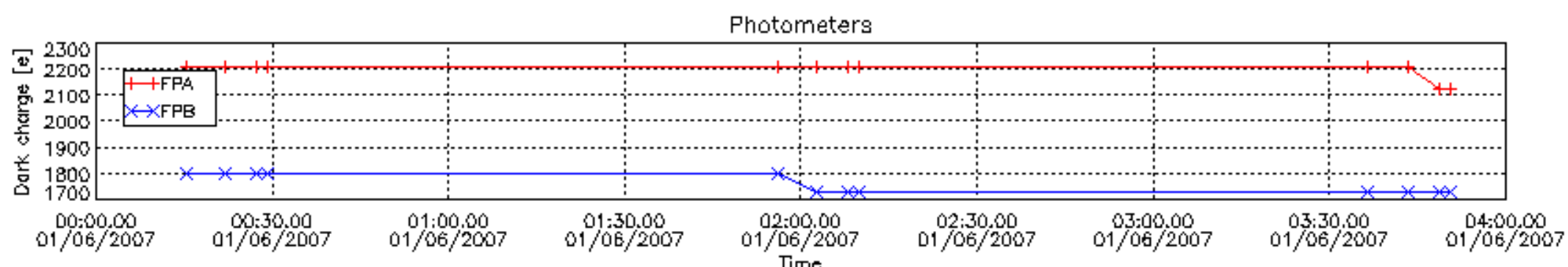
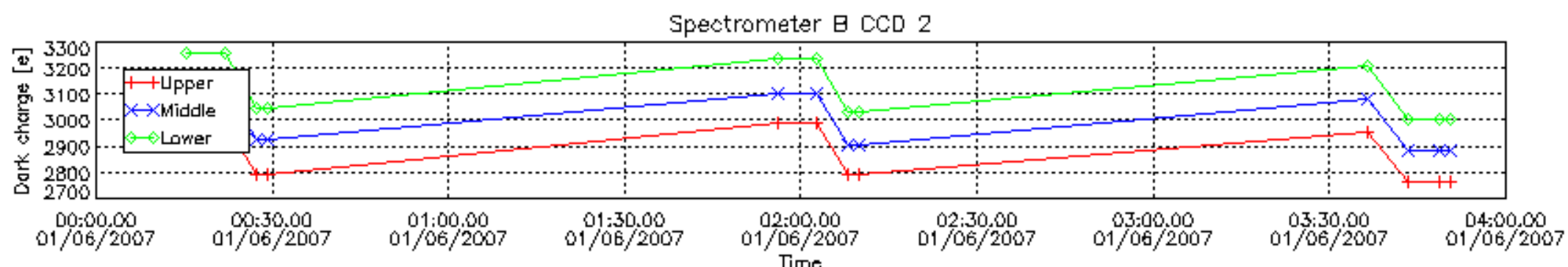
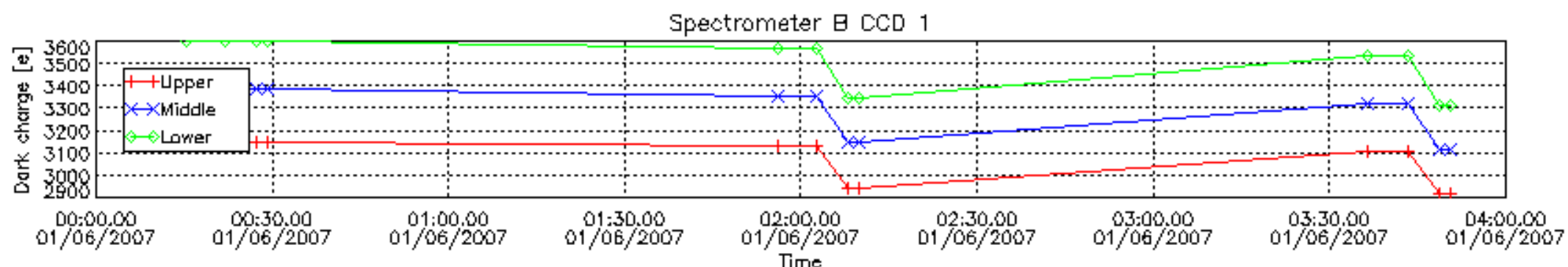
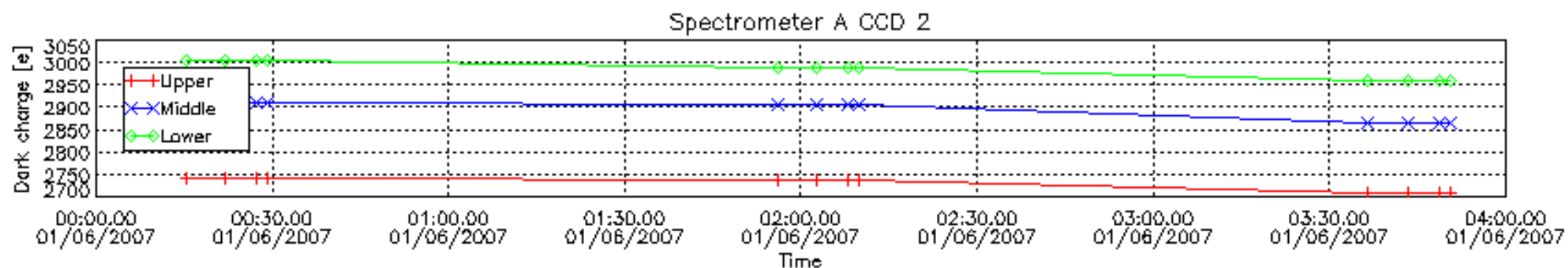
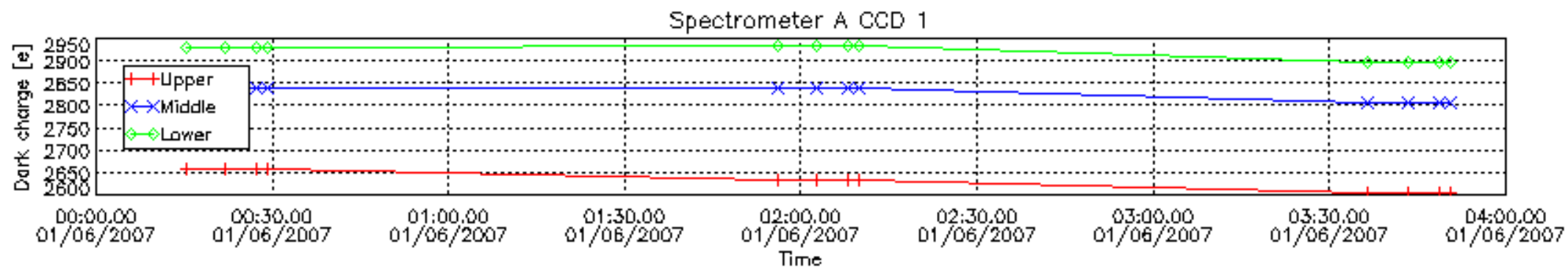
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-JUN-2007 00:15:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070525_094239_20070524_000000_20100101_000000	1	01-JUN-2007 00:15:23
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-JUN-2007 00:15:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-JUN-2007 00:15:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-JUN-2007 00:15:23
ECMWF_FILE	AUX_ECF_AXNECM20070531_061111_20070531_210000_20070601_090000	1	01-JUN-2007 00:15:23
ECMWF_FILE	AUX_ECF_AXNECM20070531_182110_20070601_030000_20070601_150000	41	01-JUN-2007 03:12:17
OPTIONAL_ECMWF_FILE	MISSING	1	01-JUN-2007 00:15:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070531_222823_000057382058_00344_27452_3599.N1	1	01-JUN-2007 00:15:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070601_000920_000057382058_00345_27453_3600.N1	22	01-JUN-2007 01:56:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070601_015017_000041442058_00346_27454_3601.N1	41	01-JUN-2007 03:12:17

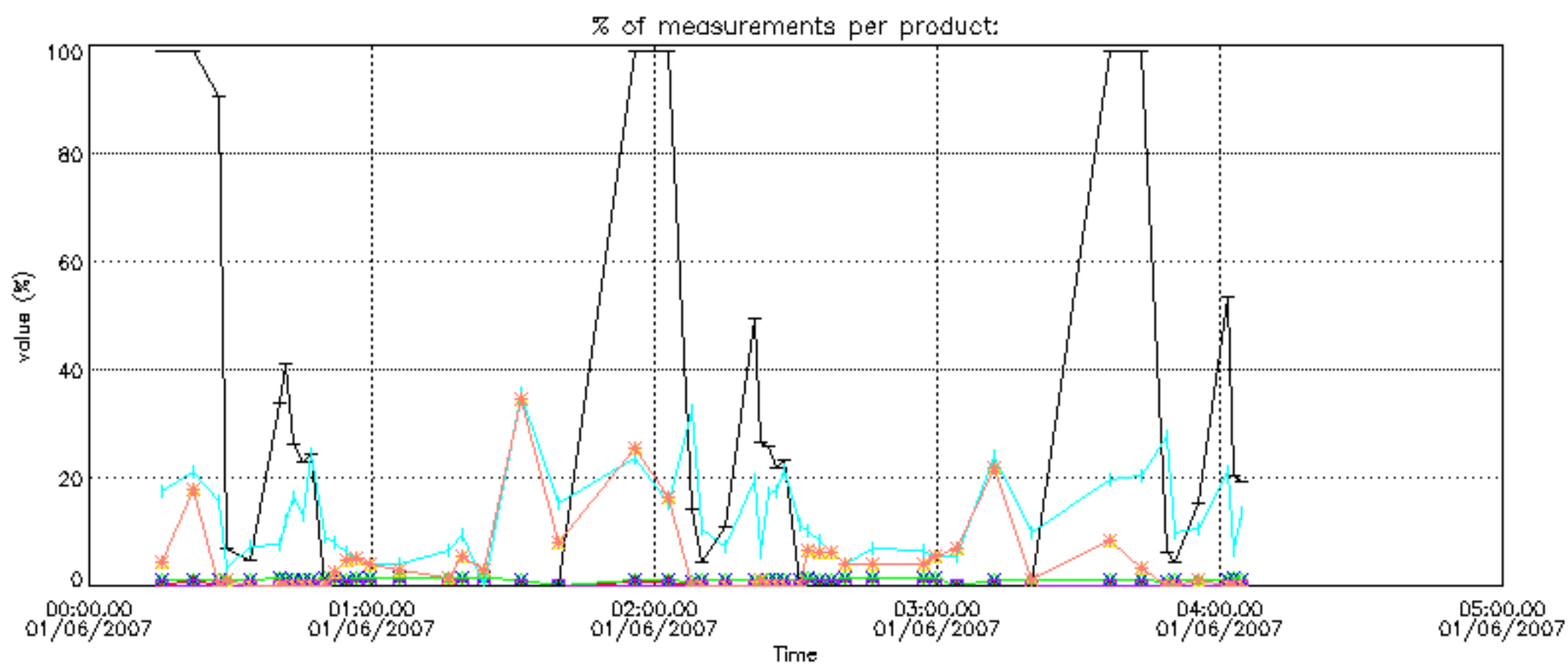




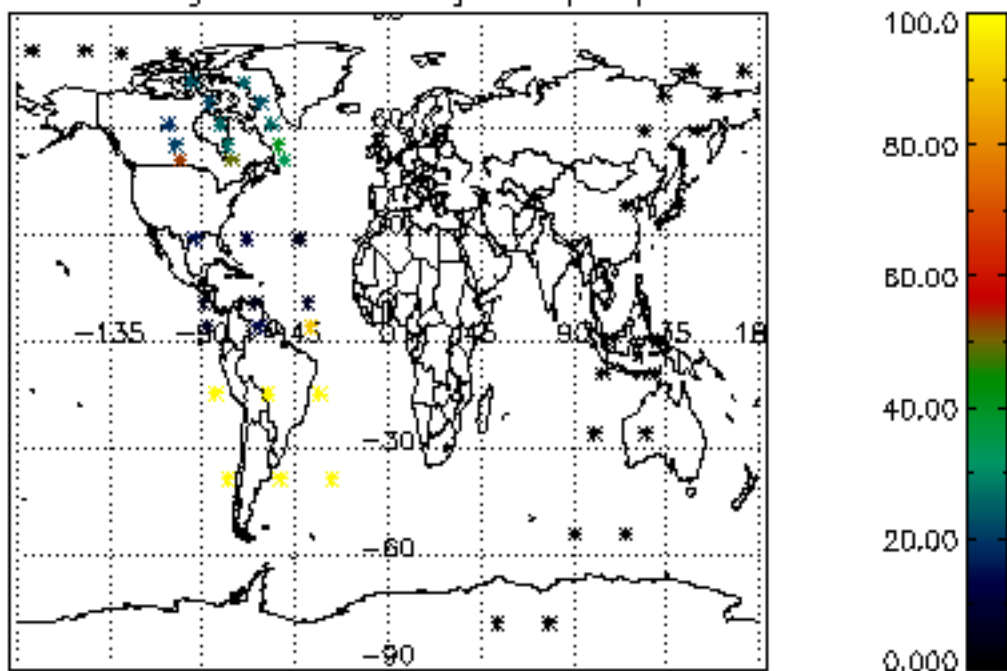




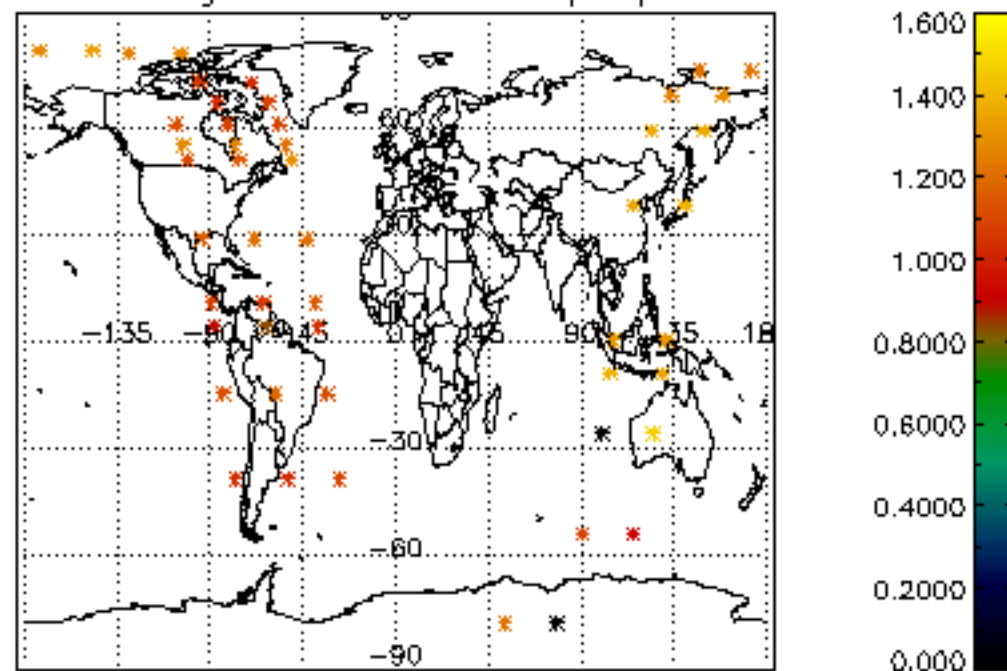




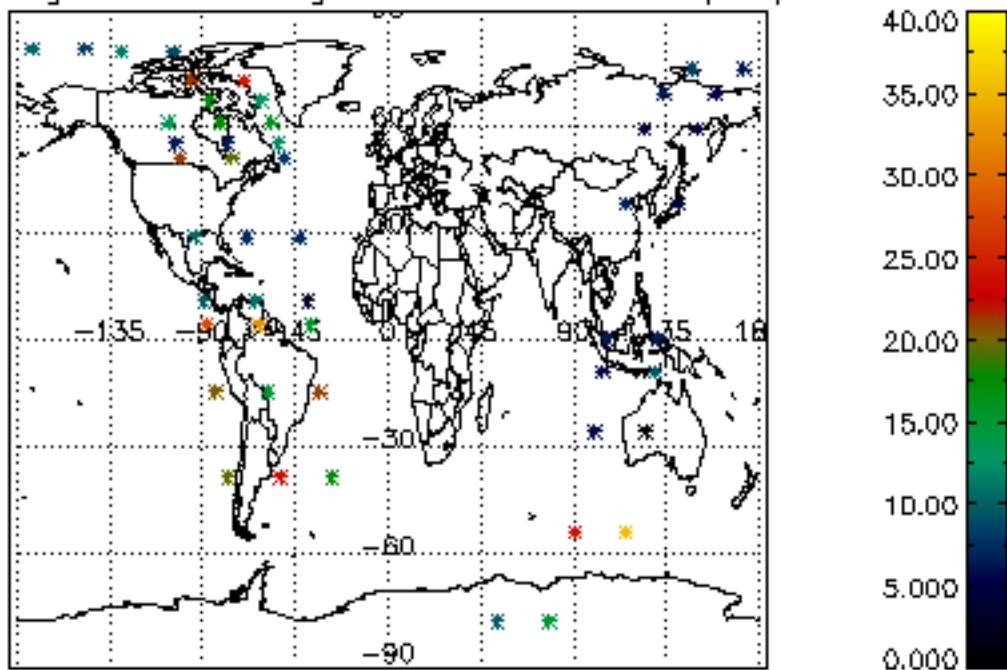
Percentage of cosmic ray hits per profile



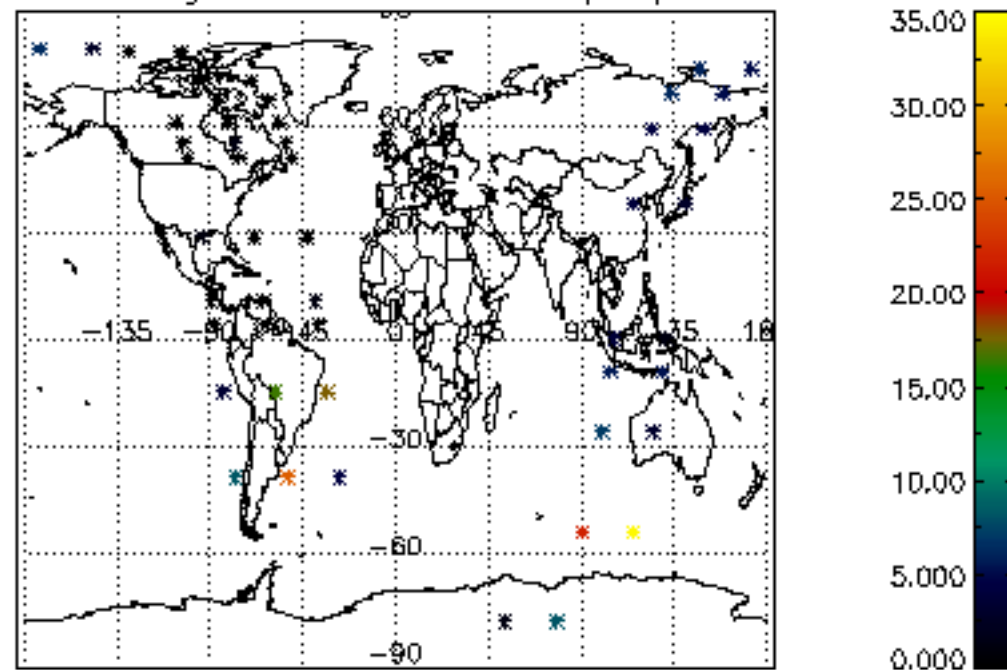
Percentage of datation errors per profile



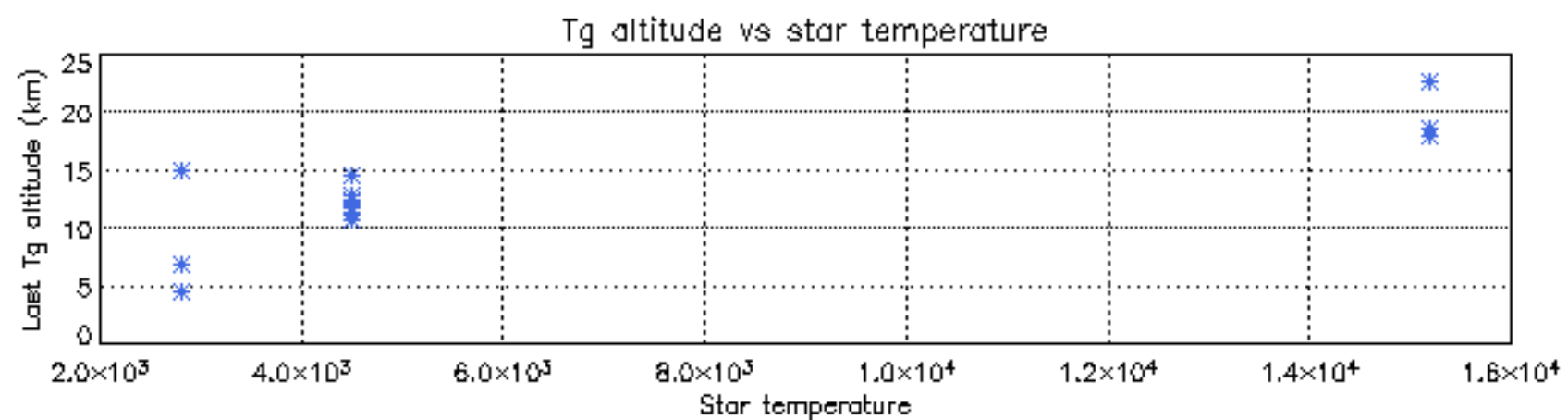
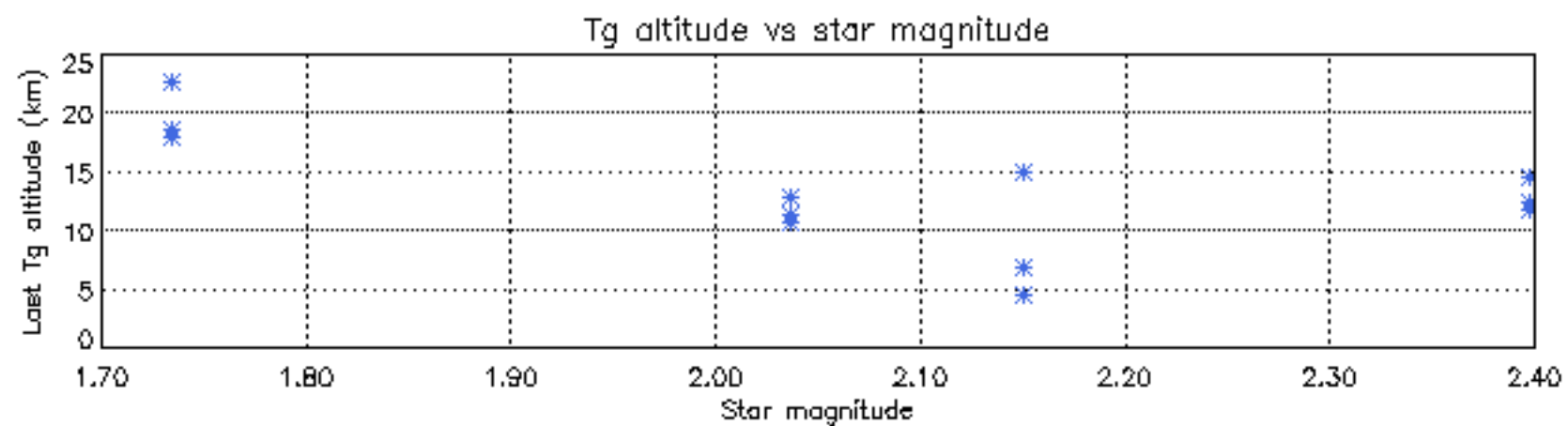
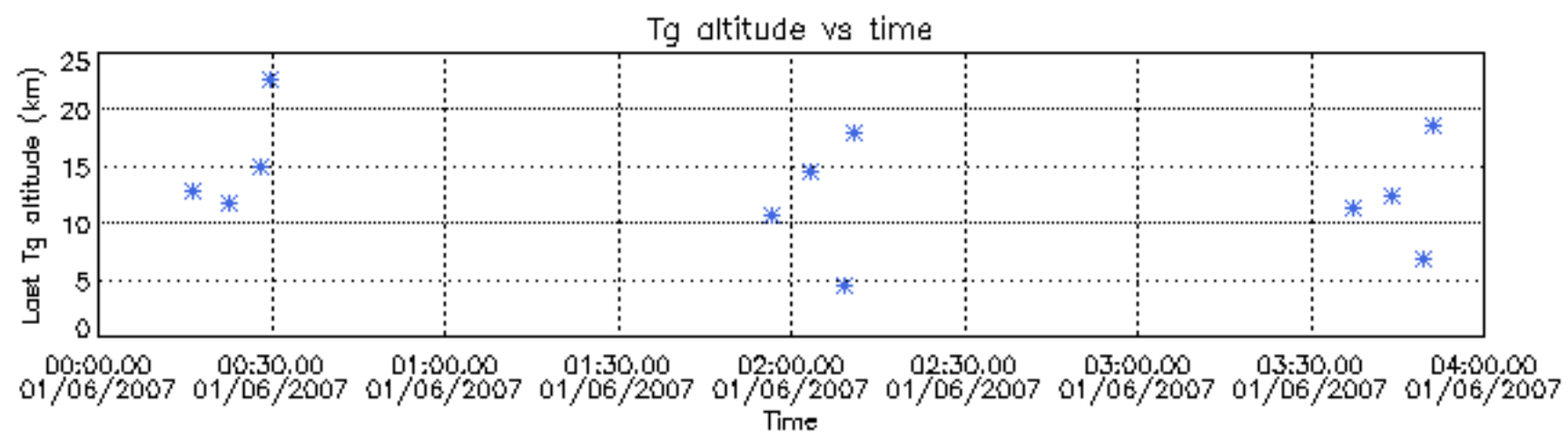
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

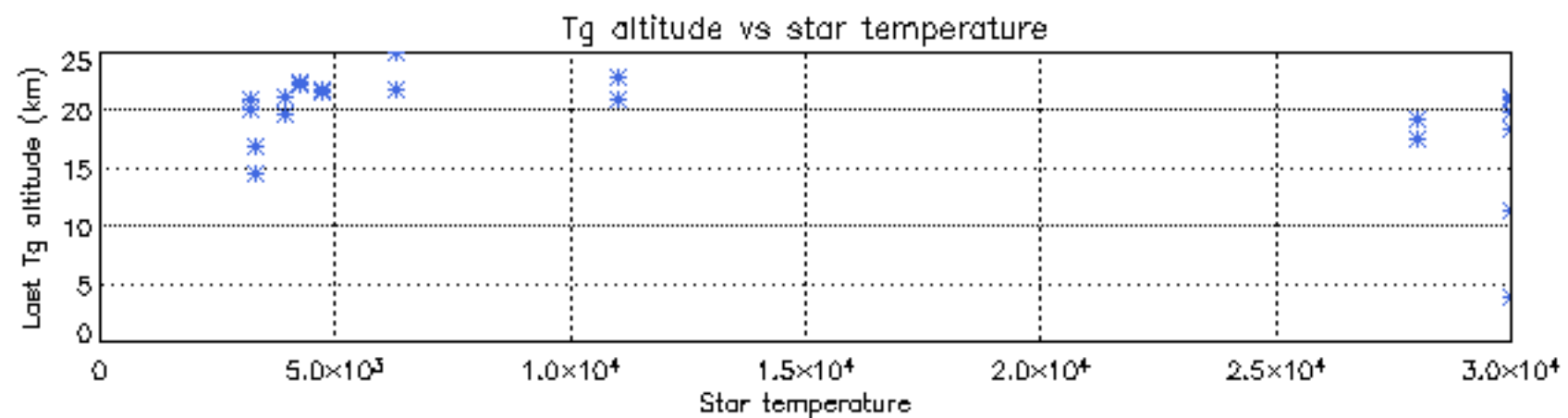
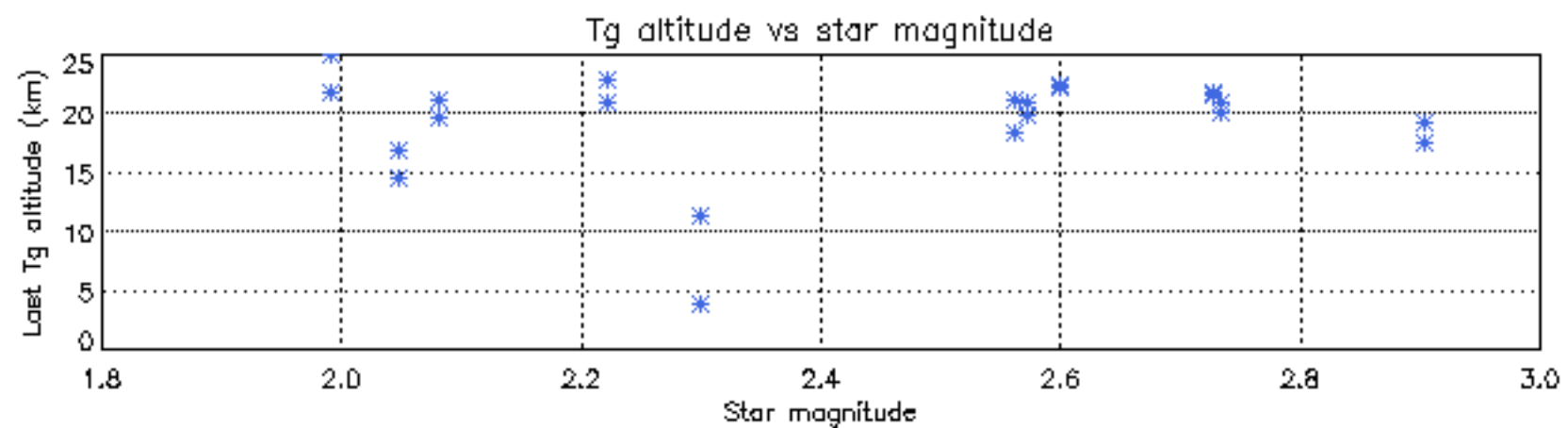
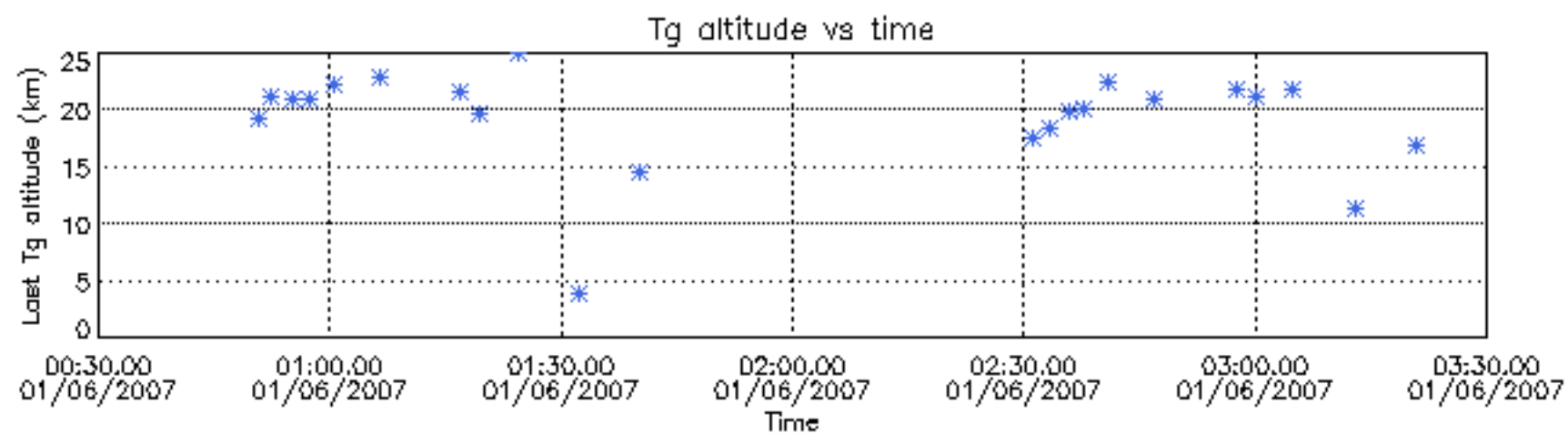


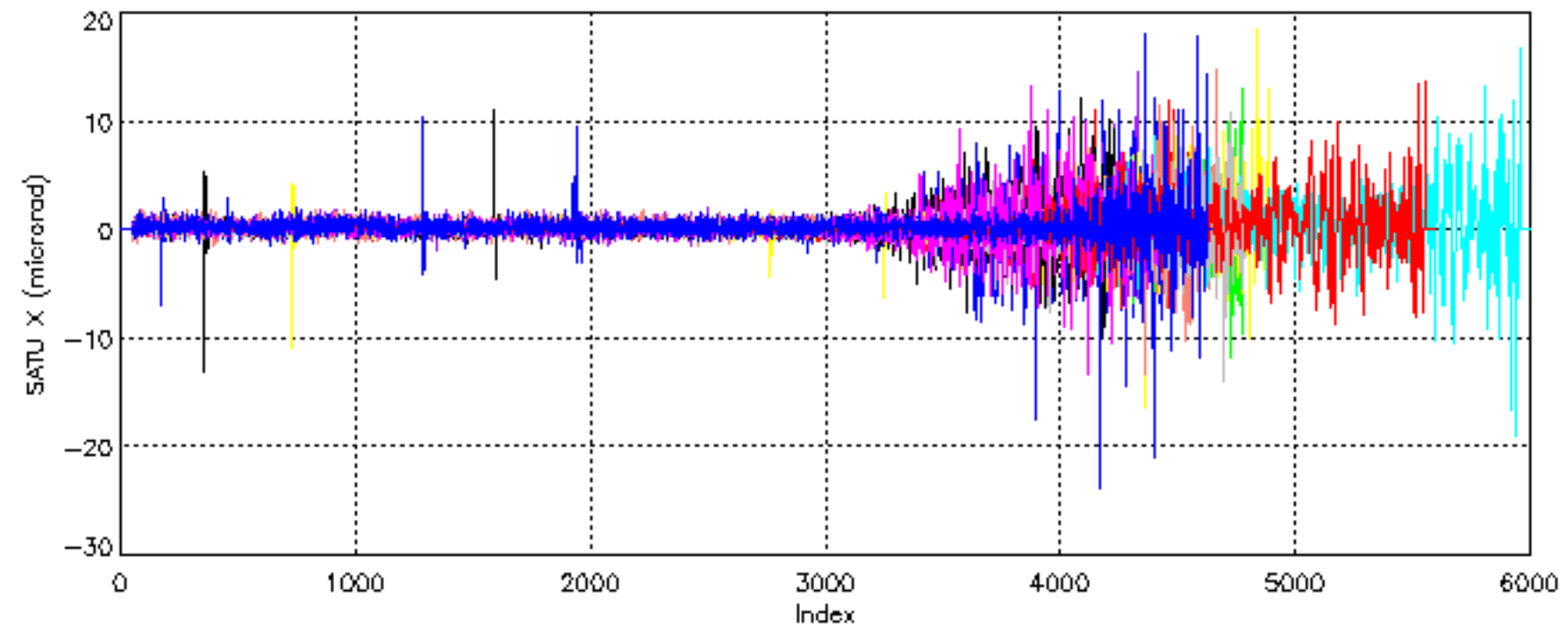
Tangent altitude at which the star is lost

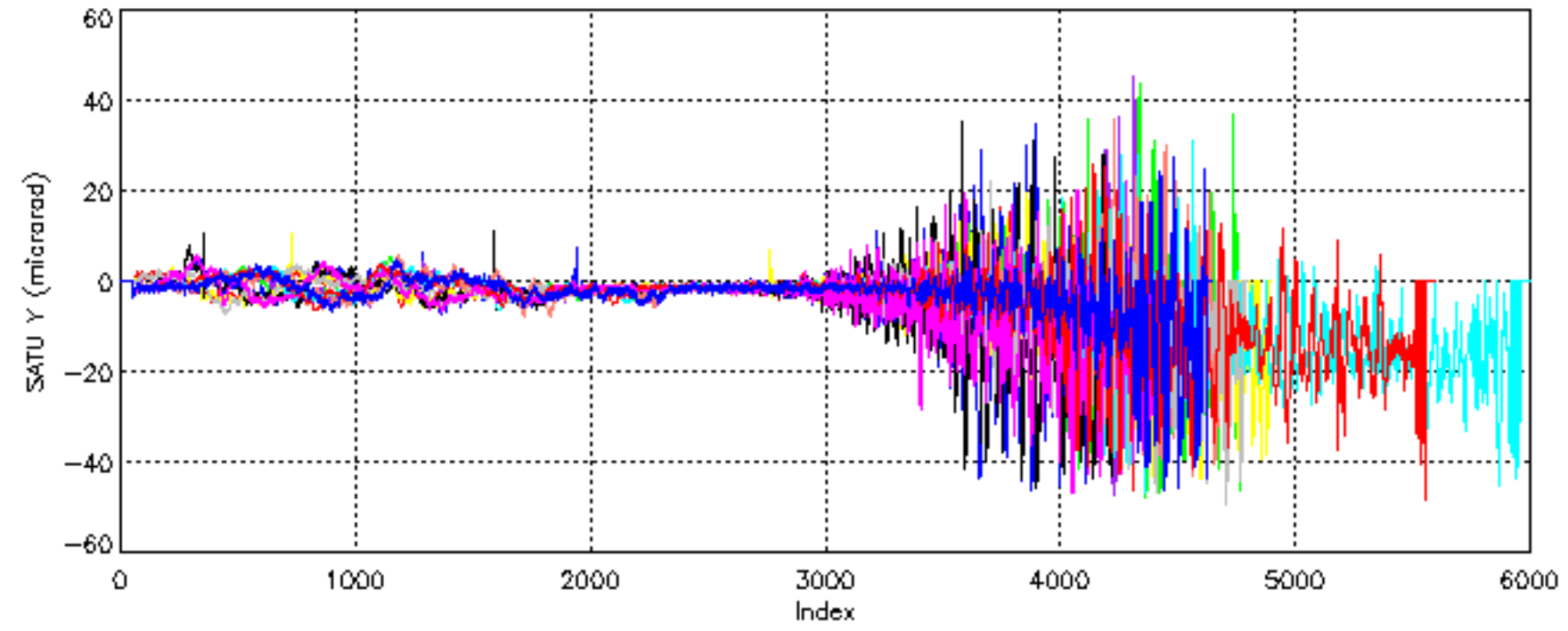




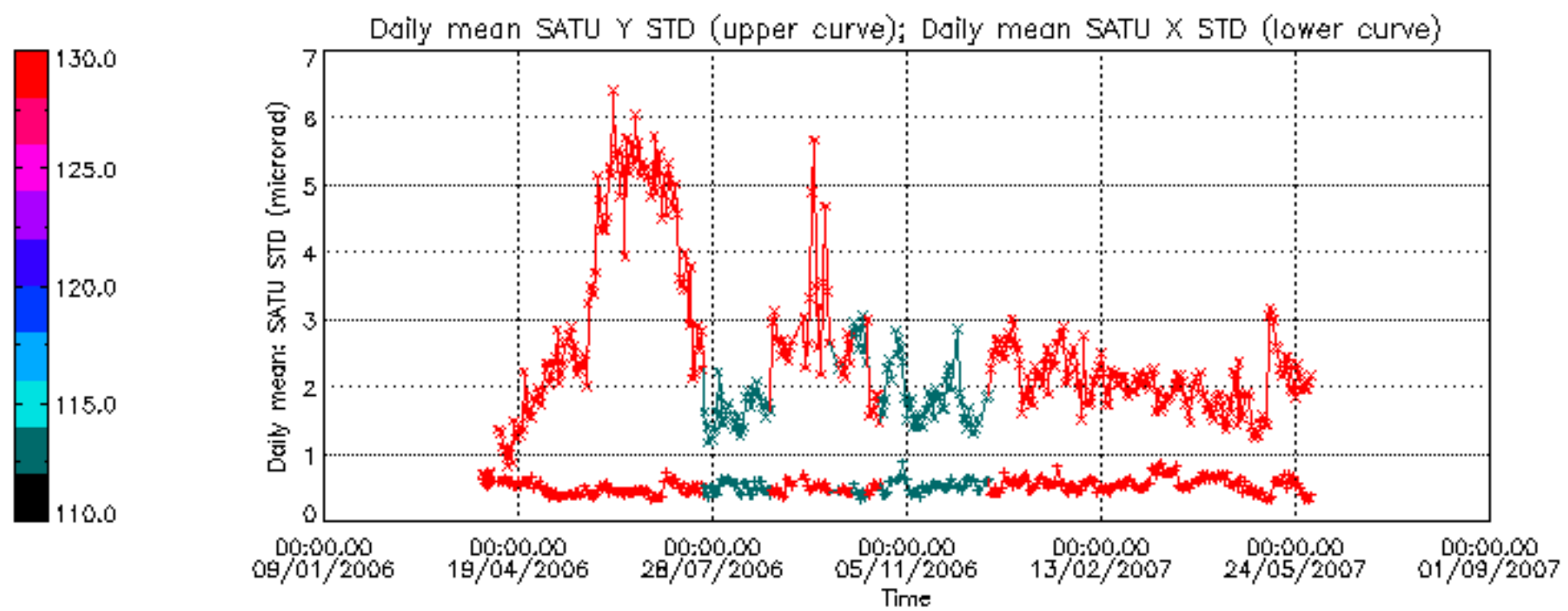
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070601\_001523\_000050842058\_00345\_27453\_3813.N1

1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453  
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 3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453  
 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454  
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454  
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454  
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454  
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454  
 9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454  
 10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454  
 11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454  
 12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454  
 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454  
 14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454  
 15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454  
 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454  
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454  
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454  
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454  
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454  
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454  
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

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 2; -387.1; 01-JUN-2007 02:00:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27454  
 3; -244.9; 01-JUN-2007 02:02:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27454  
 4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455  
 5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455  
 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455  
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455  
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455  
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455  
 10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455  
 11; 1249.1; 01-JUN-2007 02:27:36; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27455  
 12; 1430.5; 01-JUN-2007 02:30:38; Bright; 40.0; 156; 20Sig Sco ; 2.90; 28000;occ; 80; 0;27455  
 13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455  
 14; 1702.4; 01-JUN-2007 02:35:10; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27455  
 15; 1834.1; 01-JUN-2007 02:37:21; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27455  
 16; 2014.9; 01-JUN-2007 02:40:22; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27455  
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 18; 3006.5; 01-JUN-2007 02:56:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27455  
 19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455  
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 3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455  
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 7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456  
 8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456  
 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456  
 10; 933.3; 01-JUN-2007 04:02:56; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27456  
 11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456  
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 14; 1409.3; 01-JUN-2007 04:10:52; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;27456  
 15; 1543.7; 01-JUN-2007 04:13:07; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27456  
 16; 1702.6; 01-JUN-2007 04:15:46; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27456  
 17; 1834.3; 01-JUN-2007 04:17:57; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27456  
 18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456  
 19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456  
 20; 3006.3; 01-JUN-2007 04:37:29; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27456  
 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456  
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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1; -2106.3; 01-JUN-2007 04:52:53; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27456  
 2; -1642.2; 01-JUN-2007 05:00:37; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;27456  
 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456  
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456  
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 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457  
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 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457  
 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457  
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457  
 11; 1034.9; 01-JUN-2007 05:45:14; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27457  
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 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457  
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 15; 1543.7; 01-JUN-2007 05:53:43; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27457  
 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457  
 17; 1834.3; 01-JUN-2007 05:58:33; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27457  
 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457  
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457  
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 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457  
 22; 3446.9; 01-JUN-2007 06:25:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27457

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1; 879.2; 01-JUN-2007 20:48:02; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 34;27466  
 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466  
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466  
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466  
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466  
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 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466  
 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466  
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466  
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 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466  
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 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 4; 82.9; 01-JUN-2007 22:15:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;27467  
 5; 195.8; 01-JUN-2007 22:17:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27467  
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467  
 7; 862.6; 01-JUN-2007 22:28:21; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27467  
 8; 937.9; 01-JUN-2007 22:29:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27467  
 9; 1039.3; 01-JUN-2007 22:31:18; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27467  
 10; 1147.1; 01-JUN-2007 22:33:06; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27467  
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9; 1834.9; 06-JUN-2007 20:06:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27537
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18; 4401.2; 06-JUN-2007 20:49:15; Dark ; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;27537
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4;	145.6;	06-JUN-2007	21:18:55;	Dark	;	50.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	100;	0;	27538
5;	263.6;	06-JUN-2007	21:20:53;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27538
6;	540.6;	06-JUN-2007	21:25:30;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27538
7;	887.7;	06-JUN-2007	21:31:17;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	27538
8;	965.6;	06-JUN-2007	21:32:35;	Dark	;	39.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	79;	0;	27538
9;	1068.6;	06-JUN-2007	21:34:18;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	27538
10;	1174.6;	06-JUN-2007	21:36:04;	Dark	;	46.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	92;	0;	27538
11;	1272.7;	06-JUN-2007	21:37:42;	Dark	;	45.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	90;	0;	27538
12;	1390.5;	06-JUN-2007	21:39:40;	Dark	;	42.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	85;	0;	27538
13;	1511.3;	06-JUN-2007	21:41:41;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27538
14;	1598.7;	06-JUN-2007	21:43:08;	Bright;		42.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	85;	0;	27538
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16;	1834.8;	06-JUN-2007	21:47:04;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27538
17;	2015.0;	06-JUN-2007	21:50:05;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27538
18;	2298.6;	06-JUN-2007	21:54:48;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27538
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21;	3165.2;	06-JUN-2007	22:09:15;	Bright;		36.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	73;	0;	27538
22;	3446.6;	06-JUN-2007	22:13:56;	Bright;		35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	27538
23;	3920.0;	06-JUN-2007	22:21:50;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	27538
24;	4262.7;	06-JUN-2007	22:27:32;	Bright;		54.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	108;	0;	27538
25;	4401.4;	06-JUN-2007	22:29:51;	Dark	;	52.0;	53;	43Bet	And	;	2.05;	3300;	occ;	104;	0;	27538
26;	4648.5;	06-JUN-2007	22:33:58;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27538

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4;	146.5;	06-JUN-2007	22:59:32;	Dark	;	63.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	126;	0;	27539
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6;	541.3;	06-JUN-2007	23:06:07;	Dark	;	42.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	85;	0;	27539
7;	888.0;	06-JUN-2007	23:11:53;	Dark	;	40.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	80;	0;	27539
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13;	1511.3;	06-JUN-2007	23:22:17;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27539
14;	1598.8;	06-JUN-2007	23:23:44;	Bright;		43.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	86;	0;	27539
15;	1706.6;	06-JUN-2007	23:25:32;	Bright;		40.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	80;	0;	27539
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 2; 2015.5; 07-JUN-2007 09:34:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27545  
 3; 2297.2; 07-JUN-2007 09:38:58; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;27545  
 4; 2492.6; 07-JUN-2007 09:42:14; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27545  
 5; 2983.3; 07-JUN-2007 09:50:24; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27545  
 6; 3165.3; 07-JUN-2007 09:53:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27545  
 7; 3446.8; 07-JUN-2007 09:58:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27545  
 8; 3919.1; 07-JUN-2007 10:06:00; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;27545  
 9; 4263.4; 07-JUN-2007 10:11:44; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;27545  
 10; 4402.1; 07-JUN-2007 10:14:03; Dark ; 56.5; 53; 43Bet And ; 2.05; 3300;occ; 113; 0;27545  
 11; 4650.3; 07-JUN-2007 10:18:11; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;27545  
 12; 5450.2; 07-JUN-2007 10:31:31; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;27545  
 13; 5693.2; 07-JUN-2007 10:35:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27545  
 14; 5844.9; 07-JUN-2007 10:38:06; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27545  
 15; 6188.9; 07-JUN-2007 10:43:50; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;27545  
 16; 6307.4; 07-JUN-2007 10:45:48; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27545  
 17; 6581.8; 07-JUN-2007 10:50:23; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27545  
 18; 6926.4; 07-JUN-2007 10:56:07; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27545  
 19; 7004.6; 07-JUN-2007 10:57:26; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27545  
 20; 7107.8; 07-JUN-2007 10:59:09; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27545  
 21; 7213.5; 07-JUN-2007 11:00:54; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;27545  
 22; 7310.9; 07-JUN-2007 11:02:32; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27545  
 23; 7464.1; 07-JUN-2007 11:05:05; Bright; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;27545  
 24; 7548.6; 07-JUN-2007 11:06:30; Bright; 36.5; 80; 7Del Sco ; 2.32; 30000;occ; 73; 0;27545  
 25; 7635.5; 07-JUN-2007 11:07:57; Bright; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;27545

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1; 1707.0; 07-JUN-2007 11:09:44; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27546  
 2; 1835.2; 07-JUN-2007 11:11:52; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27546  
 3; 2015.5; 07-JUN-2007 11:14:52; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27546  
 4; 2296.9; 07-JUN-2007 11:19:34; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;27546



5; 2492.3; 07-JUN-2007 11:22:49; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27546  
6; 2983.0; 07-JUN-2007 11:31:00; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27546  
7; 3165.2; 07-JUN-2007 11:34:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27546  
8; 3446.7; 07-JUN-2007 11:38:44; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27546  
9; 3919.0; 07-JUN-2007 11:46:36; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27546  
10; 4263.5; 07-JUN-2007 11:52:20; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27546  
11; 4402.2; 07-JUN-2007 11:54:39; Dark ; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;27546  
12; 4650.5; 07-JUN-2007 11:58:47; Dark ; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;27546  
13; 5451.0; 07-JUN-2007 12:12:08; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27546  
14; 5693.7; 07-JUN-2007 12:16:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27546  
15; 5845.6; 07-JUN-2007 12:18:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27546  
16; 6189.8; 07-JUN-2007 12:24:27; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27546  
17; 6308.3; 07-JUN-2007 12:26:25; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27546  
18; 6582.5; 07-JUN-2007 12:30:59; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27546  
19; 6926.7; 07-JUN-2007 12:36:44; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27546  
20; 7004.9; 07-JUN-2007 12:38:02; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27546  
21; 7108.1; 07-JUN-2007 12:39:45; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27546  
22; 7213.8; 07-JUN-2007 12:41:31; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;27546  
23; 7311.2; 07-JUN-2007 12:43:08; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;27546  
24; 7464.3; 07-JUN-2007 12:45:41; Bright; 44.0; 16; 21Alp Sco ; 1.02; 3000;occ; 88; 0;27546  
25; 7548.8; 07-JUN-2007 12:47:06; Bright; 36.5; 80; 7Del Sco ; 2.32; 30000;occ; 73; 0;27546  
26; 7635.7; 07-JUN-2007 12:48:33; Bright; 17.5; 86; 35Eta Oph ; 2.43; 10200;occ; 35; 0;27546

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1; 1599.9; 07-JUN-2007 12:48:33; Bright; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;27547  
2; 1707.2; 07-JUN-2007 12:50:20; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;27547  
3; 1835.2; 07-JUN-2007 12:52:28; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;27547  
4; 2015.5; 07-JUN-2007 12:55:28; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27547  
5; 2296.7; 07-JUN-2007 13:00:09; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27547  
6; 2492.0; 07-JUN-2007 13:03:25; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27547  
7; 2982.9; 07-JUN-2007 13:11:36; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27547  
8; 3165.2; 07-JUN-2007 13:14:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27547  
9; 3446.8; 07-JUN-2007 13:19:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27547  
10; 3919.0; 07-JUN-2007 13:27:12; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;27547  
11; 4263.7; 07-JUN-2007 13:32:56; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27547  
12; 4402.2; 07-JUN-2007 13:35:15; Dark ; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;27547  
13; 4650.9; 07-JUN-2007 13:39:24; Dark ; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;27547  
14; 5451.8; 07-JUN-2007 13:52:45; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;27547  
15; 5694.3; 07-JUN-2007 13:56:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27547  
16; 5846.3; 07-JUN-2007 13:59:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27547  
17; 6190.7; 07-JUN-2007 14:05:03; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27547  
18; 6309.3; 07-JUN-2007 14:07:02; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;27547  
19; 6583.2; 07-JUN-2007 14:11:36; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27547  
20; 6927.1; 07-JUN-2007 14:17:20; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27547  
21; 7005.5; 07-JUN-2007 14:18:38; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27547  
22; 7108.6; 07-JUN-2007 14:20:21; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27547  
23; 7214.3; 07-JUN-2007 14:22:07; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;27547  
24; 7311.5; 07-JUN-2007 14:23:44; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27547  
25; 7464.5; 07-JUN-2007 14:26:17; Bright; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;27547

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2; 1512.9; 07-JUN-2007 14:27:42; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27548  
3; 1599.9; 07-JUN-2007 14:29:08; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27548  
4; 1707.3; 07-JUN-2007 14:30:56; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;27548  
5; 1835.3; 07-JUN-2007 14:33:04; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27548  
6; 2015.5; 07-JUN-2007 14:36:04; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27548  
7; 2296.5; 07-JUN-2007 14:40:45; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27548  
8; 2491.6; 07-JUN-2007 14:44:00; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;27548  
9; 2982.8; 07-JUN-2007 14:52:11; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;27548  
10; 3165.4; 07-JUN-2007 14:55:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27548  
11; 3446.9; 07-JUN-2007 14:59:55; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27548  
12; 3919.0; 07-JUN-2007 15:07:48; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27548  
13; 4263.8; 07-JUN-2007 15:13:32; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;27548  
14; 4402.4; 07-JUN-2007 15:15:51; Dark ; 53.5; 53; 43Bet And ; 2.05; 3300;occ; 107; 0;27548  
15; 4651.1; 07-JUN-2007 15:20:00; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;27548  
16; 5452.7; 07-JUN-2007 15:33:21; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;27548  
17; 5694.9; 07-JUN-2007 15:37:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27548  
18; 5847.0; 07-JUN-2007 15:39:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;27548  
19; 6191.7; 07-JUN-2007 15:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27548



20; 6310.4; 07-JUN-2007 15:47:39; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;27548  
 21; 6584.0; 07-JUN-2007 15:52:13; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27548  
 22; 6927.4; 07-JUN-2007 15:57:56; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27548  
 23; 7005.8; 07-JUN-2007 15:59:14; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27548  
 24; 7109.0; 07-JUN-2007 16:00:58; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;27548  
 25; 7214.7; 07-JUN-2007 16:02:43; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27548  
 26; 7311.7; 07-JUN-2007 16:04:20; Dark ; 17.0; 75; 26Eps Sco ; 2.29; 4250;occ; 34; 0;27548

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1; 1275.7; 07-JUN-2007 16:04:20; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;27549  
 2; 1428.7; 07-JUN-2007 16:06:53; Bright; 45.5; 16; 21Alp Sco ; 1.02; 3000;occ; 91; 0;27549  
 3; 1513.1; 07-JUN-2007 16:08:18; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27549  
 4; 1599.9; 07-JUN-2007 16:09:45; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;27549  
 5; 1707.5; 07-JUN-2007 16:11:32; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27549  
 6; 1835.4; 07-JUN-2007 16:13:40; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27549  
 7; 2015.5; 07-JUN-2007 16:16:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27549  
 8; 2296.3; 07-JUN-2007 16:21:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27549  
 9; 2491.3; 07-JUN-2007 16:24:36; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;27549  
 10; 2982.5; 07-JUN-2007 16:32:47; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27549  
 11; 3165.4; 07-JUN-2007 16:35:50; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27549  
 12; 3446.8; 07-JUN-2007 16:40:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27549  
 13; 3918.9; 07-JUN-2007 16:48:24; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27549  
 14; 4263.8; 07-JUN-2007 16:54:08; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;27549  
 15; 4402.6; 07-JUN-2007 16:56:27; Dark ; 54.0; 53; 43Bet And ; 2.05; 3300;occ; 108; 0;27549  
 16; 4651.2; 07-JUN-2007 17:00:36; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;27549  
 17; 5453.4; 07-JUN-2007 17:13:58; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;27549  
 18; 5695.5; 07-JUN-2007 17:18:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27549  
 19; 5847.6; 07-JUN-2007 17:20:32; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27549  
 20; 6192.6; 07-JUN-2007 17:26:17; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;27549  
 21; 6311.4; 07-JUN-2007 17:28:16; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27549  
 22; 6584.6; 07-JUN-2007 17:32:49; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27549  
 23; 6927.8; 07-JUN-2007 17:38:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27549  
 24; 7006.2; 07-JUN-2007 17:39:51; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27549  
 25; 7109.4; 07-JUN-2007 17:41:34; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27549

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1; 1073.4; 07-JUN-2007 17:41:34; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27550  
 2; 1179.1; 07-JUN-2007 17:43:20; Dark ; 47.0; 25; 35Lam Sco ; 1.62; 28000;occ; 94; 0;27550  
 3; 1276.1; 07-JUN-2007 17:44:57; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;27550  
 4; 1428.8; 07-JUN-2007 17:47:29; Bright; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;27550  
 5; 1513.3; 07-JUN-2007 17:48:54; Bright; 37.5; 80; 7Del Sco ; 2.32; 30000;occ; 75; 0;27550  
 6; 1600.1; 07-JUN-2007 17:50:21; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27550  
 7; 1707.5; 07-JUN-2007 17:52:08; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;27550  
 8; 1835.4; 07-JUN-2007 17:54:16; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27550  
 9; 2015.6; 07-JUN-2007 17:57:16; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27550  
 10; 2296.1; 07-JUN-2007 18:01:57; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;27550  
 11; 2490.9; 07-JUN-2007 18:05:12; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27550  
 12; 2982.3; 07-JUN-2007 18:13:23; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27550  
 13; 3165.2; 07-JUN-2007 18:16:26; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27550  
 14; 3446.8; 07-JUN-2007 18:21:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27550  
 15; 3918.7; 07-JUN-2007 18:28:59; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27550  
 16; 4263.7; 07-JUN-2007 18:34:44; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;27550  
 17; 4402.7; 07-JUN-2007 18:37:03; Dark ; 60.0; 53; 43Bet And ; 2.05; 3300;occ; 120; 0;27550  
 18; 4651.4; 07-JUN-2007 18:41:12; Dark ; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;27550  
 19; 5454.2; 07-JUN-2007 18:54:35; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;27550  
 20; 5696.0; 07-JUN-2007 18:58:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27550  
 21; 5848.2; 07-JUN-2007 19:01:09; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;27550  
 22; 6193.5; 07-JUN-2007 19:06:54; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;27550  
 23; 6312.3; 07-JUN-2007 19:08:53; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27550  
 24; 6585.2; 07-JUN-2007 19:13:26; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;27550  
 25; 6928.2; 07-JUN-2007 19:19:09; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27550  
 26; 7006.6; 07-JUN-2007 19:20:27; Dark ; 18.5; 147; Alp Ara ; 2.88; 26000;occ; 37; 0;27550

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1; 970.6; 07-JUN-2007 19:20:27; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27551  
 2; 1073.7; 07-JUN-2007 19:22:10; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;27551  
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6; 2446.6; 29-JUN-2007 11:30:41; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27861  
7; 2813.9; 29-JUN-2007 11:36:49; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27861  
8; 2951.6; 29-JUN-2007 11:39:07; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27861  
9; 3187.7; 29-JUN-2007 11:43:03; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27861  
10; 3445.6; 29-JUN-2007 11:47:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27861  
11; 4064.2; 29-JUN-2007 11:57:39; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;27861  
12; 4164.4; 29-JUN-2007 11:59:19; Bright; 47.5; 175; 39Del Per ; 3.01; 19400;occ; 95; 0;27861  
13; 4293.6; 29-JUN-2007 12:01:28; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;27861  
14; 4966.2; 29-JUN-2007 12:12:41; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;27861  
15; 5193.7; 29-JUN-2007 12:16:29; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;27861  
16; 5700.1; 29-JUN-2007 12:24:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27861  
17; 6058.7; 29-JUN-2007 12:30:54; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;27861  
18; 6503.0; 29-JUN-2007 12:38:18; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27861  
19; 6767.8; 29-JUN-2007 12:42:43; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27861  
20; 7093.7; 29-JUN-2007 12:48:09; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27861  
21; 7201.3; 29-JUN-2007 12:49:56; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;27861  
22; 7301.3; 29-JUN-2007 12:51:36; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;27861  
23; 7385.1; 29-JUN-2007 12:53:00; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;27861

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1; 1638.9; 29-JUN-2007 12:57:50; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;27862  
2; 1743.6; 29-JUN-2007 12:59:34; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27862  
3; 1983.0; 29-JUN-2007 13:03:34; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27862  
4; 2123.7; 29-JUN-2007 13:05:54; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27862  
5; 2280.4; 29-JUN-2007 13:08:31; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;27862  
6; 2446.7; 29-JUN-2007 13:11:17; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27862  
7; 2813.8; 29-JUN-2007 13:17:25; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27862  
8; 2951.7; 29-JUN-2007 13:19:42; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27862  
9; 3187.9; 29-JUN-2007 13:23:39; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27862  
10; 3445.7; 29-JUN-2007 13:27:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27862  
11; 4064.3; 29-JUN-2007 13:38:15; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;27862  
12; 4164.6; 29-JUN-2007 13:39:55; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;27862  
13; 4293.9; 29-JUN-2007 13:42:05; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;27862  
14; 4966.4; 29-JUN-2007 13:53:17; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27862  
15; 5194.1; 29-JUN-2007 13:57:05; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;27862  
16; 5700.6; 29-JUN-2007 14:05:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27862  
17; 6059.3; 29-JUN-2007 14:11:30; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27862  
18; 6503.6; 29-JUN-2007 14:18:54; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27862  
19; 6768.4; 29-JUN-2007 14:23:19; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27862  
20; 7093.9; 29-JUN-2007 14:28:45; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;27862  
21; 7201.6; 29-JUN-2007 14:30:32; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27862  
22; 7301.5; 29-JUN-2007 14:32:12; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;27862  
23; 7385.5; 29-JUN-2007 14:33:36; Dark ; 44.0; 116; 19Del Sgr ; 2.70; 4100;occ; 88; 0;27862

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1; 1639.2; 29-JUN-2007 14:38:26; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;27863  
2; 1743.9; 29-JUN-2007 14:40:11; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27863  
3; 1982.9; 29-JUN-2007 14:44:10; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;27863  
4; 2123.7; 29-JUN-2007 14:46:30; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;27863  
5; 2280.5; 29-JUN-2007 14:49:07; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;27863  
6; 2446.8; 29-JUN-2007 14:51:53; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27863  
7; 2813.7; 29-JUN-2007 14:58:00; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27863  
8; 2951.9; 29-JUN-2007 15:00:18; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27863  
9; 3188.1; 29-JUN-2007 15:04:15; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27863  
10; 3445.7; 29-JUN-2007 15:08:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27863  
11; 4064.2; 29-JUN-2007 15:18:51; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;27863  
12; 4164.8; 29-JUN-2007 15:20:31; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;27863  
13; 4293.9; 29-JUN-2007 15:22:41; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;27863  
14; 4967.0; 29-JUN-2007 15:33:54; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;27863  
15; 5194.4; 29-JUN-2007 15:37:41; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;27863  
16; 5701.3; 29-JUN-2007 15:46:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27863  
17; 6059.8; 29-JUN-2007 15:52:06; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;27863  
18; 6504.3; 29-JUN-2007 15:59:31; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;27863  
19; 6769.0; 29-JUN-2007 16:03:56; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27863  
20; 7094.2; 29-JUN-2007 16:09:21; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27863  
21; 7201.7; 29-JUN-2007 16:11:08; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27863  
22; 7301.8; 29-JUN-2007 16:12:48; Dark ; 28.5; 25; 35Lam Sco ; 1.62; 28000;occ; 57; 0;27863



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1;	734.4;	29-JUN-2007	21:05:45;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;	27867
2;	1058.8;	29-JUN-2007	21:11:09;	Dark	;	36.0;	147;	Alp Ara	;	2.88;	26000;occ;	72;	0;	27867
3;	1166.3;	29-JUN-2007	21:12:57;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	27867
4;	1266.3;	29-JUN-2007	21:14:37;	Dark	;	41.0;	25;	35Lam Sco	;	1.62;	28000;occ;	82;	0;	27867
5;	1350.5;	29-JUN-2007	21:16:01;	Dark	;	55.5;	116;	19Del Sgr	;	2.70;	4100;occ;	111;	0;	27867
6;	1639.5;	29-JUN-2007	21:20:50;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27867
7;	1744.4;	29-JUN-2007	21:22:35;	Bright;		36.0;	98;	13Zet Oph	;	2.57;	30000;occ;	72;	0;	27867
8;	1982.7;	29-JUN-2007	21:26:33;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27867
9;	2123.4;	29-JUN-2007	21:28:54;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	27867
10;	2280.9;	29-JUN-2007	21:31:31;	Bright;		36.0;	127;	27Bet Her	;	2.78;	4700;occ;	72;	0;	27867
11;	2446.9;	29-JUN-2007	21:34:17;	Bright;		36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;	27867
12;	2812.9;	29-JUN-2007	21:40:23;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	27867
13;	2951.7;	29-JUN-2007	21:42:42;	Bright;		35.5;	119;	14Eta Dra	;	2.73;	4700;occ;	71;	0;	27867
14;	3188.5;	29-JUN-2007	21:46:39;	Bright;		36.0;	60;	7Bet UMi	;	2.08;	3950;occ;	72;	0;	27867
15;	3445.5;	29-JUN-2007	21:50:56;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	27867
16;	4063.6;	29-JUN-2007	22:01:14;	Bright;		39.0;	160;	23Gam Per	;	2.93;	4700;occ;	78;	0;	27867
17;	4164.7;	29-JUN-2007	22:02:55;	Bright;		40.0;	175;	39Del Per	;	3.01;	19400;occ;	80;	0;	27867
18;	4293.9;	29-JUN-2007	22:05:04;	Bright;		44.0;	79;	26Bet Per	;	2.31;	13100;occ;	88;	0;	27867
19;	4968.5;	29-JUN-2007	22:16:19;	Dark	;	45.5;	94;	92Alp Cet	;	2.53;	3100;occ;	91;	0;	27867
20;	5195.2;	29-JUN-2007	22:20:06;	Dark	;	2.0;	165;	34Gam Eri	;	2.95;	3200;occ;	4;	0;	27867

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1;	-840.7;	29-JUN-2007	22:20:06;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	27867
2;	-332.5;	29-JUN-2007	22:28:34;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27867
3;	25.6;	29-JUN-2007	22:34:32;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	27868
4;	470.6;	29-JUN-2007	22:41:57;	Dark	;	43.0;	148;	Alp Tuc	;	2.88;	4100;occ;	86;	0;	27868
5;	734.9;	29-JUN-2007	22:46:21;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;	27868
6;	1058.8;	29-JUN-2007	22:51:45;	Dark	;	38.0;	147;	Alp Ara	;	2.88;	26000;occ;	76;	0;	27868
7;	1166.5;	29-JUN-2007	22:53:33;	Dark	;	42.0;	40;	The Sco	;	1.86;	7100;occ;	84;	0;	27868
8;	1266.4;	29-JUN-2007	22:55:13;	Dark	;	40.5;	25;	35Lam Sco	;	1.62;	28000;occ;	81;	0;	27868
9;	1350.5;	29-JUN-2007	22:56:37;	Dark	;	47.5;	116;	19Del Sgr	;	2.70;	4100;occ;	95;	0;	27868
10;	1639.7;	29-JUN-2007	23:01:26;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27868
11;	1744.6;	29-JUN-2007	23:03:11;	Bright;		35.0;	98;	13Zet Oph	;	2.57;	30000;occ;	70;	0;	27868
12;	1982.6;	29-JUN-2007	23:07:09;	Bright;		37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	27868
13;	2123.3;	29-JUN-2007	23:09:30;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	27868
14;	2281.0;	29-JUN-2007	23:12:07;	Bright;		37.5;	127;	27Bet Her	;	2.78;	4700;occ;	75;	0;	27868
15;	2447.0;	29-JUN-2007	23:14:53;	Bright;		37.0;	133;	40Zet Her	;	2.81;	6000;occ;	74;	0;	27868
16;	2812.6;	29-JUN-2007	23:20:59;	Bright;		35.0;	130;	23Bet Dra	;	2.80;	5800;occ;	70;	0;	27868
17;	2951.8;	29-JUN-2007	23:23:18;	Bright;		34.5;	119;	14Eta Dra	;	2.73;	4700;occ;	69;	0;	27868
18;	3188.6;	29-JUN-2007	23:27:15;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;occ;	67;	0;	27868
19;	3445.5;	29-JUN-2007	23:31:32;	Bright;		34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	27868
20;	4063.6;	29-JUN-2007	23:41:50;	Bright;		36.0;	160;	23Gam Per	;	2.93;	4700;occ;	72;	0;	27868
21;	4164.9;	29-JUN-2007	23:43:31;	Bright;		33.0;	175;	39Del Per	;	3.01;	19400;occ;	66;	0;	27868
22;	4294.0;	29-JUN-2007	23:45:40;	Bright;		30.0;	79;	26Bet Per	;	2.31;	13100;occ;	60;	0;	27868
23;	4968.9;	29-JUN-2007	23:56:55;	Dark	;	48.5;	94;	92Alp Cet	;	2.53;	3100;occ;	97;	0;	27868
24;	5195.4;	30-JUN-2007	00:00:42;	Dark	;	37.5;	165;	34Gam Eri	;	2.95;	3200;occ;	75;	0;	27868

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1;	1265.8;	29-JUN-2007	16:12:48;	Dark	;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;	27864
2;	1349.7;	29-JUN-2007	16:14:12;	Dark	;	53.5;	116;	19Del Sgr	;	2.70;	4100;occ;	107;	0;	27864
3;	1639.1;	29-JUN-2007	16:19:02;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;	27864
4;	1744.0;	29-JUN-2007	16:20:47;	Bright;		36.5;	98;	13Zet Oph	;	2.57;	30000;occ;	73;	0;	27864
5;	1982.9;	29-JUN-2007	16:24:46;	Bright;		37.5;	126;	60Bet Oph	;	2.77;	4250;occ;	75;	0;	27864
6;	2123.5;	29-JUN-2007	16:27:06;	Bright;		38.5;	59;	55Alp Oph	;	2.08;	8900;occ;	77;	0;	27864
7;	2280.6;	29-JUN-2007	16:29:43;	Bright;		36.0;	127;	27Bet Her	;	2.78;	4700;occ;	72;	0;	27864
8;	2446.8;	29-JUN-2007	16:32:29;	Bright;		36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;	27864
9;	2813.5;	29-JUN-2007	16:38:36;	Bright;		38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	27864
10;	2951.8;	29-JUN-2007	16:40:54;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27864
11;	3188.2;	29-JUN-2007	16:44:51;	Bright;		33.5;	60;	7Bet UMi	;	2.08;	3950;occ;	67;	0;	27864
12;	3445.7;	29-JUN-2007	16:49:08;	Bright;		35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	27864
13;	4064.1;	29-JUN-2007	16:59:27;	Bright;		50.0;	160;	23Gam Per	;	2.93;	4700;occ;	100;	0;	27864
14;	4164.7;	29-JUN-2007	17:01:07;	Bright;		33.0;	175;	39Del Per	;	3.01;	19400;occ;	66;	0;	27864
15;	4293.7;	29-JUN-2007	17:03:16;	Bright;		45.0;	79;	26Bet Per	;	2.31;	13100;occ;	90;	0;	27864
16;	4967.5;	29-JUN-2007	17:14:30;	Dark	;	51.5;	94;	92Alp Cet	;	2.53;	3100;occ;	103;	0;	27864
17;	5194.7;	29-JUN-2007	17:18:17;	Dark	;	40.0;	165;	34Gam Eri	;	2.95;	3200;occ;	80;	0;	27864
18;	5701.9;	29-JUN-2007	17:26:44;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27864
19;	6060.3;	29-JUN-2007	17:32:43;	Dark	;	41.5;	9;	Alp Eri	;	0.45;	24000;occ;	83;	0;	27864
20;	6505.0;	29-JUN-2007	17:40:08;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	27864
21;	6769.4;	29-JUN-2007	17:44:32;	Dark	;	39.5;	45;	Alp Pav	;	1.94;	26000;occ;	79;	0;	27864

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2;	1165.9;	29-JUN-2007	17:51:45;	Dark	;	42.5;	40;	The Sco	;	1.86;	7100;occ;	85;	0;	27865
3;	1265.9;	29-JUN-2007	17:53:25;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	27865
4;	1349.9;	29-JUN-2007	17:54:49;	Dark	;	45.5;	116;	19Del Sgr	;	2.70;	4100;occ;	91;	0;	27865
5;	1639.3;	29-JUN-2007	17:59:38;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27865
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7;	1982.8;	29-JUN-2007	18:05:21;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27865
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