

# GOMOS Daily Report 23-JUN-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	26JUN2009 04:33:27
Data source version	GOMOS/5.00
Start time of products	23JUN2009 00:07:12
Stop time of products	23JUN2009 04:43:54
Store outputs in DB	Yes
Nb of level 1b prods	40
Nb of prods with errors	0

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

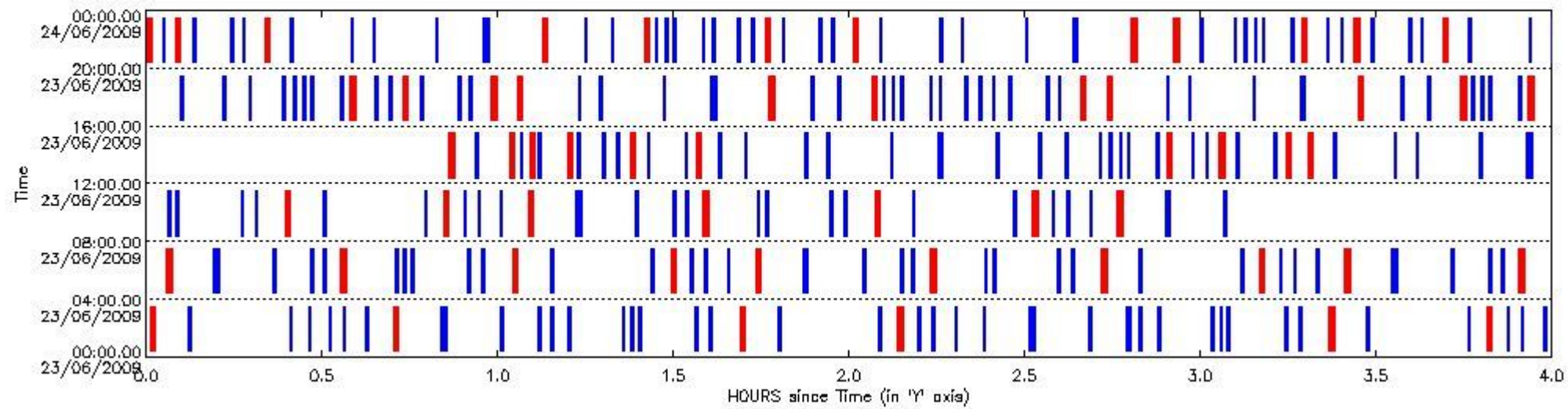
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
23-JUN-2009 00:00:44	40ZetHer	133	38232
23-JUN-2009 00:42:12	92AlpCet	94	38232
23-JUN-2009 01:41:20	40ZetHer	133	38233
23-JUN-2009 02:08:18	23GamPer	160	38233
23-JUN-2009 03:21:56	40ZetHer	133	38234
23-JUN-2009 03:48:54	23GamPer	160	38234
23-JUN-2009 04:03:25	92AlpCet	94	38234
23-JUN-2009 04:33:12	AlpPav	45	38235
23-JUN-2009 05:02:32	40ZetHer	133	38235
23-JUN-2009 05:29:30	23GamPer	160	38235
23-JUN-2009 05:44:01	92AlpCet	94	38235
23-JUN-2009 06:13:49	AlpPav	45	38236
23-JUN-2009 06:43:08	40ZetHer	133	38236
23-JUN-2009 07:10:06	23GamPer	160	38236
23-JUN-2009 07:24:37	92AlpCet	94	38236

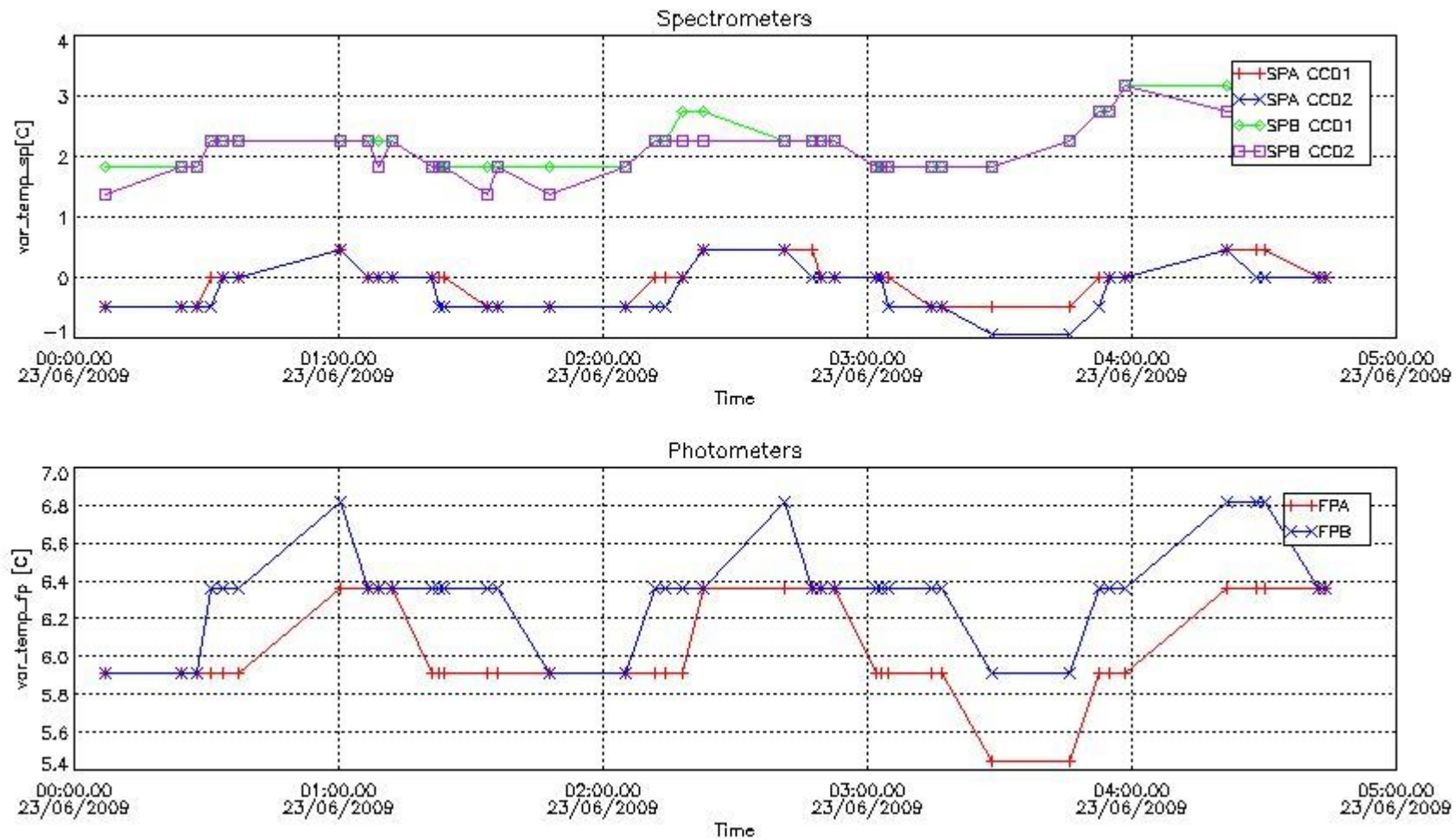
23-JUN-2009 07:54:25	AlpPav	45	38237
23-JUN-2009 08:23:44	40ZetHer	133	38237
23-JUN-2009 08:50:42	23GamPer	160	38237
23-JUN-2009 09:05:14	92AlpCet	94	38237
23-JUN-2009 09:35:02	AlpPav	45	38238
23-JUN-2009 10:04:19	40ZetHer	133	38238
23-JUN-2009 10:31:18	23GamPer	160	38238
23-JUN-2009 10:45:50	92AlpCet	94	38238
23-JUN-2009 12:51:43	AlpTuc	148	38240
23-JUN-2009 13:02:04	AlpAra	147	38240
23-JUN-2009 13:05:32	35LamSco	25	38240
23-JUN-2009 13:11:52	35EtaOph	86	38240
23-JUN-2009 13:22:39	27BetHer	127	38240
23-JUN-2009 13:33:57	14EtaDra	119	38240
23-JUN-2009 14:54:12	13ZetOph	98	38241
23-JUN-2009 15:03:15	27BetHer	127	38241
23-JUN-2009 15:14:33	14EtaDra	119	38241
23-JUN-2009 15:18:19	7BetUMi	60	38241
23-JUN-2009 16:34:48	13ZetOph	98	38242
23-JUN-2009 16:43:51	27BetHer	127	38242
23-JUN-2009 16:58:55	7BetUMi	60	38242
23-JUN-2009 17:03:22	1AlpUMi	49	38242
23-JUN-2009 17:46:21	AlpEri	9	38242
23-JUN-2009 18:03:53	AlpAra	147	38243
23-JUN-2009 18:39:31	7BetUMi	60	38243
23-JUN-2009 18:43:58	1AlpUMi	49	38243
23-JUN-2009 19:26:57	AlpEri	9	38243
23-JUN-2009 19:44:29	AlpAra	147	38244
23-JUN-2009 19:56:00	13ZetOph	98	38244
23-JUN-2009 20:00:16	60BetOph	126	38244
23-JUN-2009 20:05:03	27BetHer	127	38244
23-JUN-2009 20:20:07	7BetUMi	60	38244
23-JUN-2009 21:07:33	AlpEri	9	38244
23-JUN-2009 21:25:05	AlpAra	147	38245
23-JUN-2009 21:45:39	27BetHer	127	38245
23-JUN-2009 22:00:43	7BetUMi	60	38245
23-JUN-2009 22:48:10	AlpEri	9	38245
23-JUN-2009 22:55:22	AlpTuc	148	38246
23-JUN-2009 23:17:12	13ZetOph	98	38246
23-JUN-2009 23:26:15	27BetHer	127	38246
23-JUN-2009 23:41:19	7BetUMi	60	38246

#### 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_1PNPDE20090623_000712_000000282080_00102_38232_8496.N1	23-JUN-2009 00:07:12	Bright	28.000	130	23Bet Dra	2.7990	5800.0	56	38232	No
2	GOM_TRA_1PNPDE20090623_002430_000000262080_00102_38232_8497.N1	23-JUN-2009 00:24:30	Twilight	25.500	76	27Gam Cas	2.3000	30000.	51	38232	No
3	GOM_TRA_1PNPDE20090623_002744_000000212080_00102_38232_8498.N1	23-JUN-2009 00:27:44	Twilight	21.000	160	23Gam Per	2.9300	4700.0	42	38232	No
4	GOM_TRA_1PNPDE20090623_003109_000000242080_00102_38232_8499.N1	23-JUN-2009 00:31:09	Twilight	23.500	73	57Gam1And	2.2600	13100.	47	38232	No
5	GOM_TRA_1PNPDE20090623_003334_000000242080_00102_38232_8500.N1	23-JUN-2009 00:33:34	Twilight	23.500	173	4Bet Tri	3.0040	8900.0	47	38232	No
6	GOM_TRA_1PNPDE20090623_003724_000000242080_00102_38232_8501.N1	23-JUN-2009 00:37:24	Dark	24.000	50	13Alp Ari	2.0070	4250.0	48	38232	No
7	GOM_TRA_1PNPDE20090623_010022_000000322080_00102_38232_8502.N1	23-JUN-2009 01:00:22	Dark	32.000	84	Alp Phe	2.3970	4500.0	64	38232	No
8	GOM_TRA_1PNPDE20090623_010650_000000352080_00103_38233_8503.N1	23-JUN-2009 01:06:50	Dark	35.000	63	Bet Gru	2.1500	2800.0	70	38233	No
9	GOM_TRA_1PNPDE20090623_010852_000000342080_00103_38233_8504.N1	23-JUN-2009 01:08:52	Straylight	34.000	31	Alp Gru	1.7340	15200.	68	38233	No
10	GOM_TRA_1PNPDE20090623_011201_000000292080_00103_38233_8505.N1	23-JUN-2009 01:12:01	Straylight	28.500	45	Alp Pav	1.9400	26000.	57	38233	No
11	GOM_TRA_1PNPDE20090623_012116_000000282080_00103_38233_8506.N1	23-JUN-2009 01:21:16	Twilight	27.500	38	20Eps Sgr	1.8360	11000.	55	38233	No
12	GOM_TRA_1PNPDE20090623_012241_000000282080_00103_38233_8507.N1	23-JUN-2009 01:22:41	Twilight	28.000	116	19Del Sgr	2.7000	4100.0	56	38233	No
13	GOM_TRA_1PNPDE20090623_012357_000000292080_00103_38233_8508.N1	23-JUN-2009 01:23:57	Twilight	28.500	137	22Lam Sgr	2.8240	4400.0	57	38233	No

14	GOM_TRA_1PNPDE20090623_013344_000000292080_00103_38233_8509.N1	23-JUN-2009 01:33:44	Bright	28.500	126	60Bet Oph	2.7700	4250.0	57	38233	No
15	GOM_TRA_1PNPDE20090623_013608_000000292080_00103_38233_8510.N1	23-JUN-2009 01:36:08	Bright	28.500	59	55Alp Oph	2.0800	8900.0	57	38233	No
16	GOM_TRA_1PNPDE20090623_014748_000000282080_00103_38233_8511.N1	23-JUN-2009 01:47:48	Bright	27.500	130	23Bet Dra	2.7990	5800.0	55	38233	No
17	GOM_TRA_1PNPDE20090623_020505_000000262080_00103_38233_8512.N1	23-JUN-2009 02:05:05	Twilight	25.500	76	27Gam Cas	2.3000	30000.	51	38233	No
18	GOM_TRA_1PNPDE20090623_021145_000000242080_00103_38233_8513.N1	23-JUN-2009 02:11:45	Twilight	23.500	73	57Gam1And	2.2600	13100.	47	38233	No
19	GOM_TRA_1PNPDE20090623_021410_000000232080_00103_38233_8514.N1	23-JUN-2009 02:14:10	Twilight	23.000	173	4Bet Tri	3.0040	8900.0	46	38233	No
20	GOM_TRA_1PNPDE20090623_021800_000000252080_00103_38233_8515.N1	23-JUN-2009 02:18:00	Dark	24.500	50	13Alp Ari	2.0070	4250.0	49	38233	No
21	GOM_TRA_1PNPDE20090623_022250_000000222080_00103_38233_8516.N1	23-JUN-2009 02:22:50	Dark	21.500	94	92Alp Cet	2.5260	3100.0	43	38233	No
22	GOM_TRA_1PNPDE20090623_024059_000000322080_00103_38233_8517.N1	23-JUN-2009 02:40:59	Dark	32.000	84	Alp Phe	2.3970	4500.0	64	38233	No
23	GOM_TRA_1PNPDE20090623_024726_000000352080_00104_38234_8518.N1	23-JUN-2009 02:47:26	Dark	35.000	63	Bet Gru	2.1500	2800.0	70	38234	No
24	GOM_TRA_1PNPDE20090623_024928_000000352080_00104_38234_8519.N1	23-JUN-2009 02:49:28	Straylight	34.500	31	Alp Gru	1.7340	15200.	69	38234	No
25	GOM_TRA_1PNPDE20090623_025237_000000292080_00104_38234_8520.N1	23-JUN-2009 02:52:37	Straylight	28.500	45	Alp Pav	1.9400	26000.	57	38234	No
26	GOM_TRA_1PNPDE20090623_030152_000000282080_00104_38234_8521.N1	23-JUN-2009 03:01:52	Twilight	27.500	38	20Eps Sgr	1.8360	11000.	55	38234	No
27	GOM_TRA_1PNPDE20090623_030317_000000282080_00104_38234_8522.N1	23-JUN-2009 03:03:17	Twilight	28.000	116	19Del Sgr	2.7000	4100.0	56	38234	No
28	GOM_TRA_1PNPDE20090623_030433_000000292080_00104_38234_8528.N1	23-JUN-2009 03:04:33	Twilight	28.500	137	22Lam Sgr	2.8240	4400.0	57	38234	No
29	GOM_TRA_1PNPDE20090623_031420_000000292080_00104_38234_8524.N1	23-JUN-2009 03:14:20	Bright	28.500	126	60Bet Oph	2.7700	4250.0	57	38234	No
30	GOM_TRA_1PNPDE20090623_031644_000000292080_00104_38234_8525.N1	23-JUN-2009 03:16:44	Bright	28.500	59	55Alp Oph	2.0800	8900.0	57	38234	No
31	GOM_TRA_1PNPDE20090623_032824_000000272080_00104_38234_8526.N1	23-JUN-2009 03:28:24	Twilight	27.000	130	23Bet Dra	2.7990	5800.0	54	38234	No
32	GOM_TRA_1PNPDE20090623_034541_000000252080_00104_38234_8534.N1	23-JUN-2009 03:45:41	Twilight	25.000	76	27Gam Cas	2.3000	30000.	50	38234	No
33	GOM_TRA_1PNPDE20090623_035221_000000232080_00104_38234_8535.N1	23-JUN-2009 03:52:21	Twilight	23.000	73	57Gam1And	2.2600	13100.	46	38234	No
34	GOM_TRA_1PNPDE20090623_035446_000000242080_00104_38234_8536.N1	23-JUN-2009 03:54:46	Twilight	23.500	173	4Bet Tri	3.0040	8900.0	47	38234	No
35	GOM_TRA_1PNPDE20090623_035837_000000252080_00104_38234_8537.N1	23-JUN-2009 03:58:37	Dark	24.500	50	13Alp Ari	2.0070	4250.0	49	38234	No
36	GOM_TRA_1PNPDE20090623_042136_000000322080_00104_38234_8538.N1	23-JUN-2009 04:21:36	Dark	32.000	84	Alp Phe	2.3970	4500.0	64	38234	No
37	GOM_TRA_1PNPDE20090623_042803_000000362080_00105_38235_8539.N1	23-JUN-2009 04:28:03	Dark	35.500	63	Bet Gru	2.1500	2800.0	71	38235	No
38	GOM_TRA_1PNPDE20090623_043005_000000352080_00105_38235_8540.N1	23-JUN-2009 04:30:05	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	38235	No
39	GOM_TRA_1PNPDE20090623_044228_000000282080_00105_38235_8541.N1	23-JUN-2009 04:42:28	Twilight	27.500	38	20Eps Sgr	1.8360	11000.	55	38235	No
40	GOM_TRA_1PNPDE20090623_044354_000000282080_00105_38235_8542.N1	23-JUN-2009 04:43:54	Twilight	27.500	116	19Del Sgr	2.7000	4100.0	55	38235	No

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



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

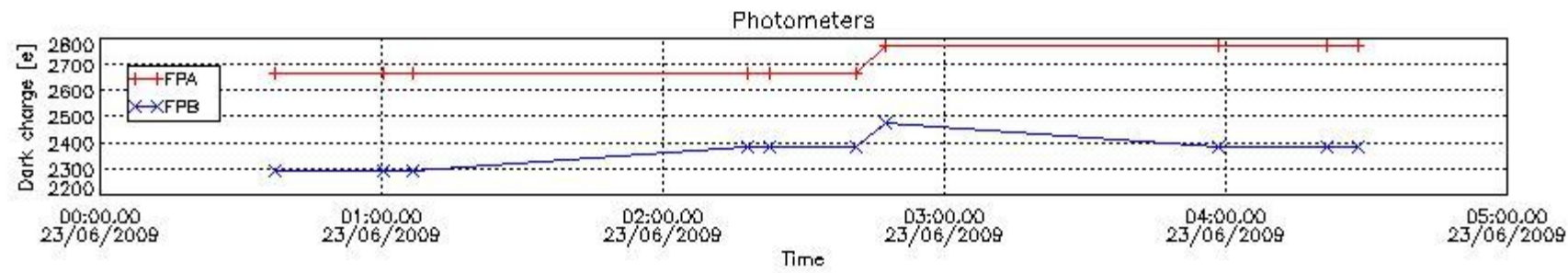
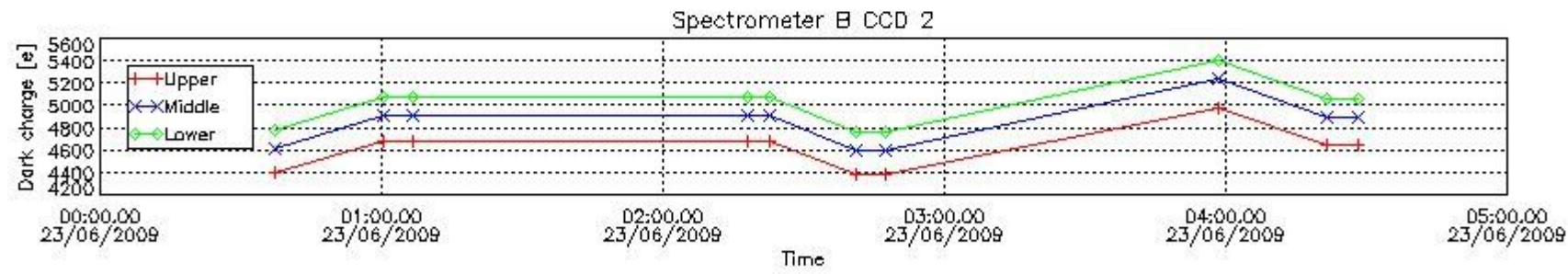
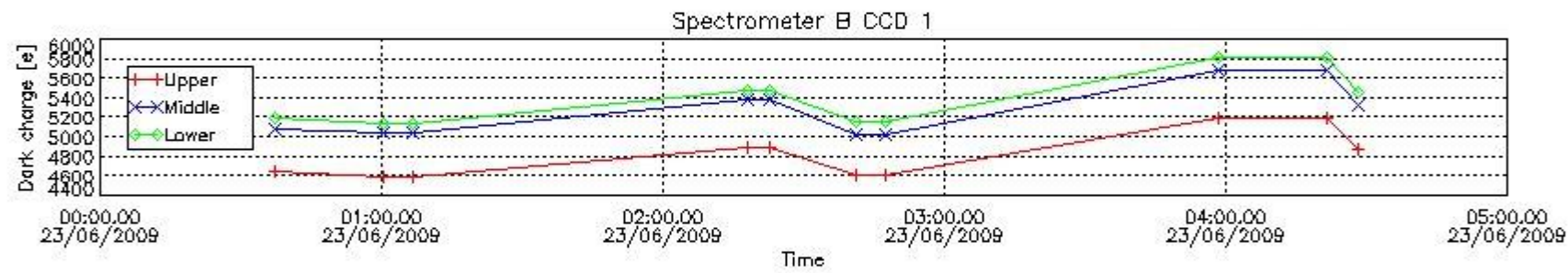
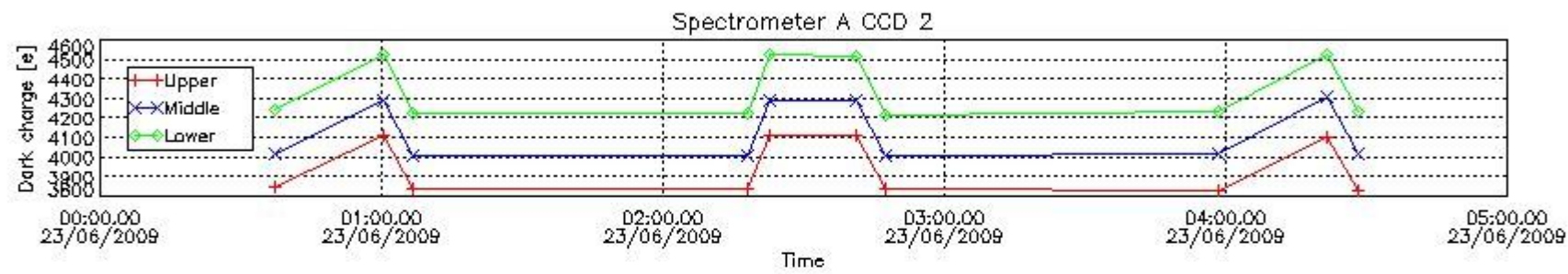
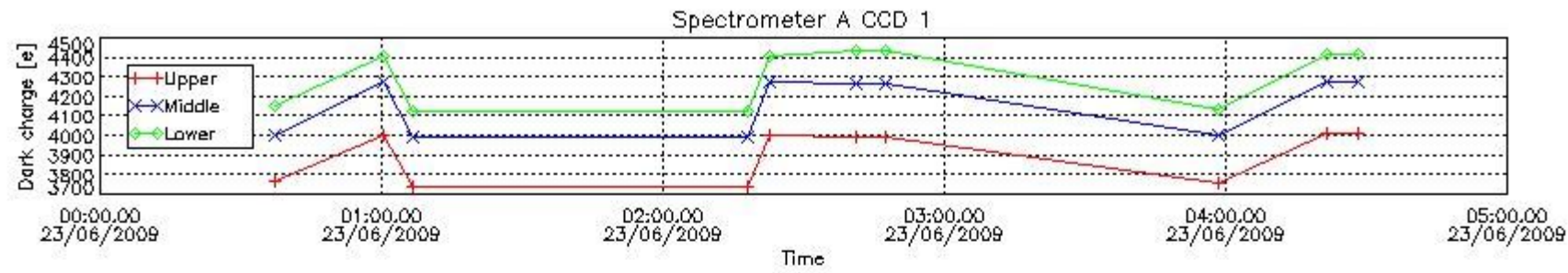
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





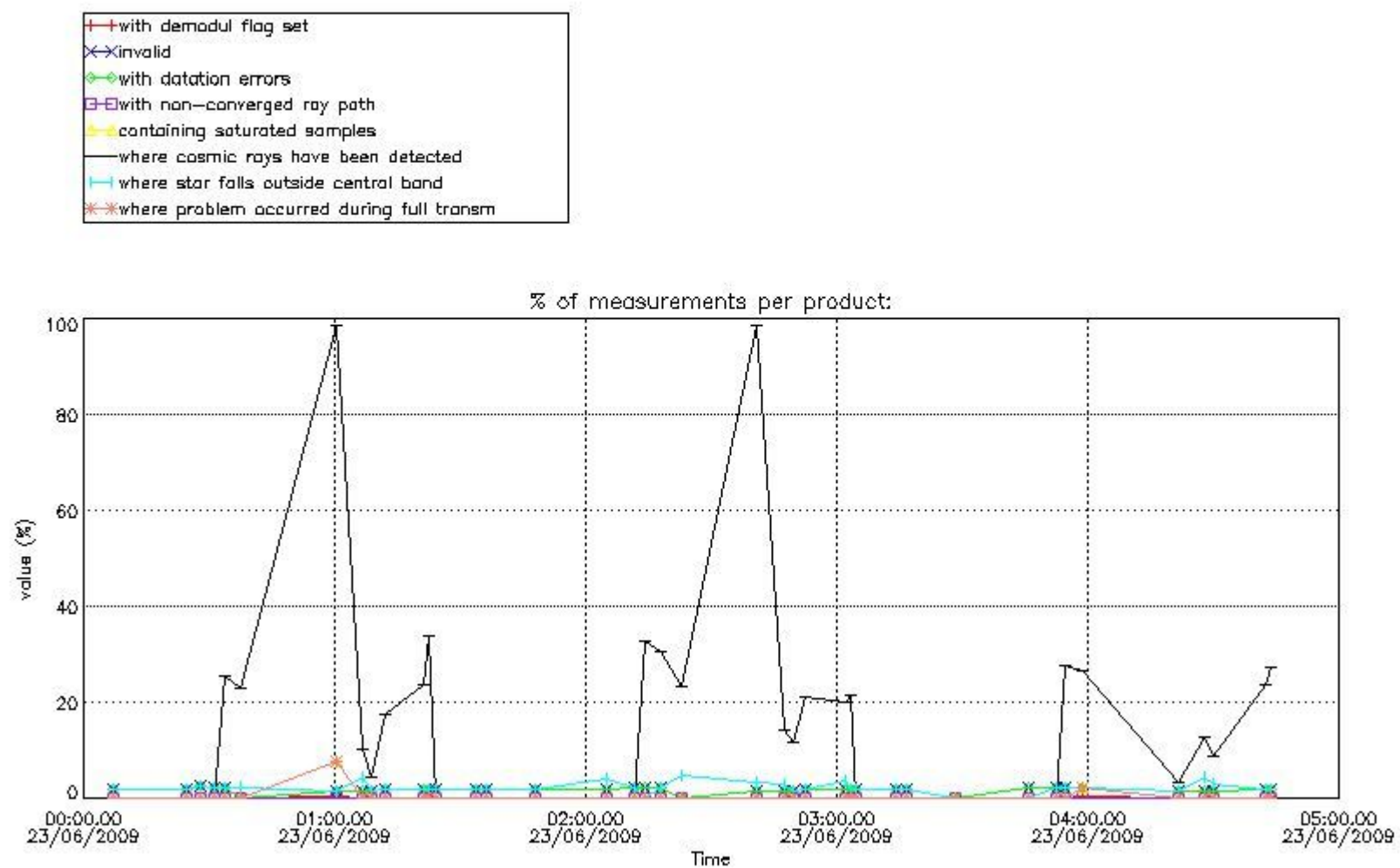
## 5. Demodulation flag and quality information monitoring

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.

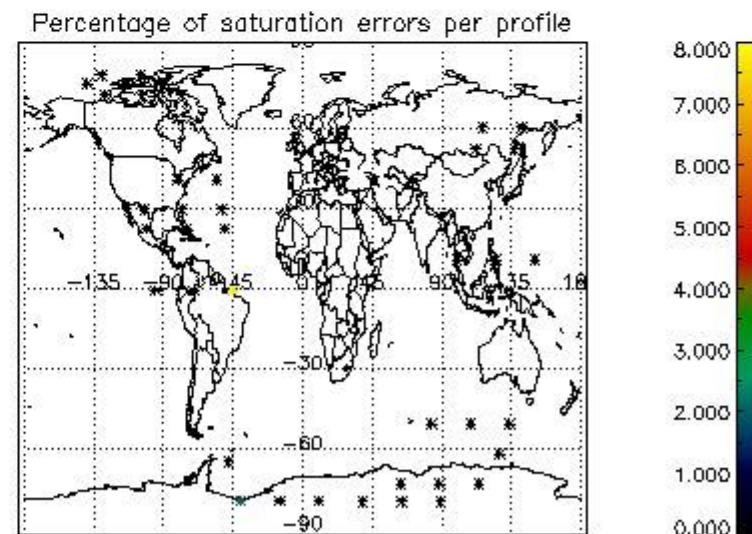
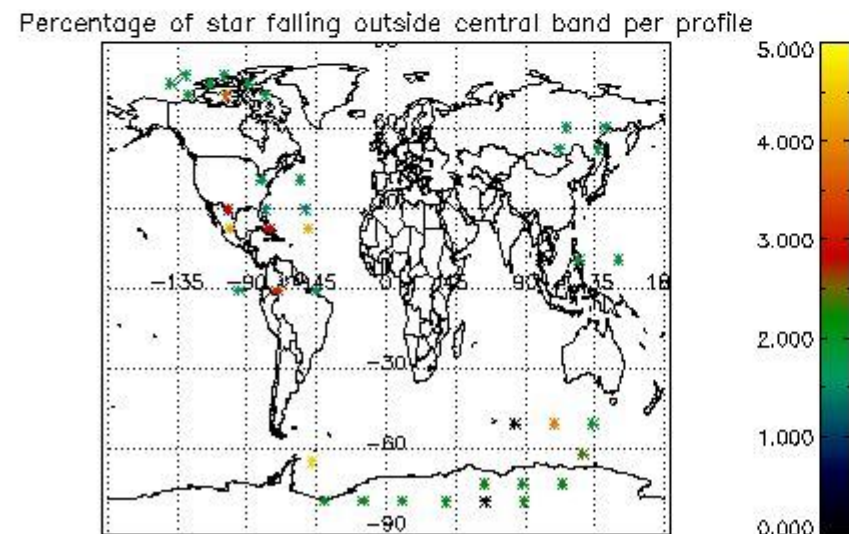
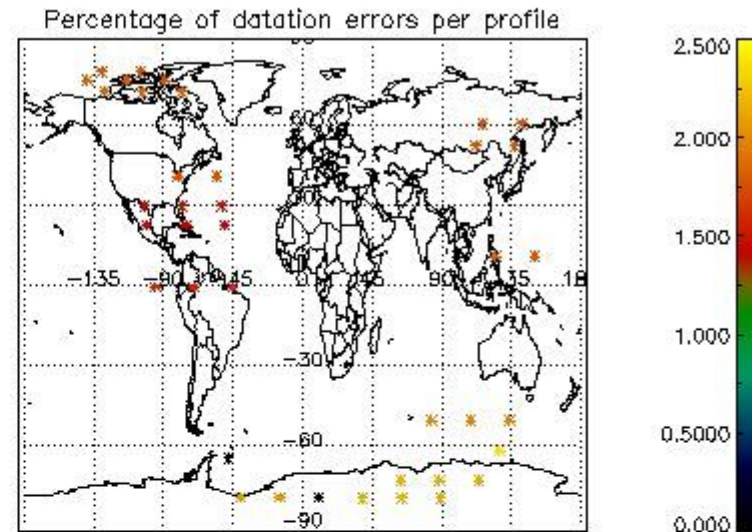
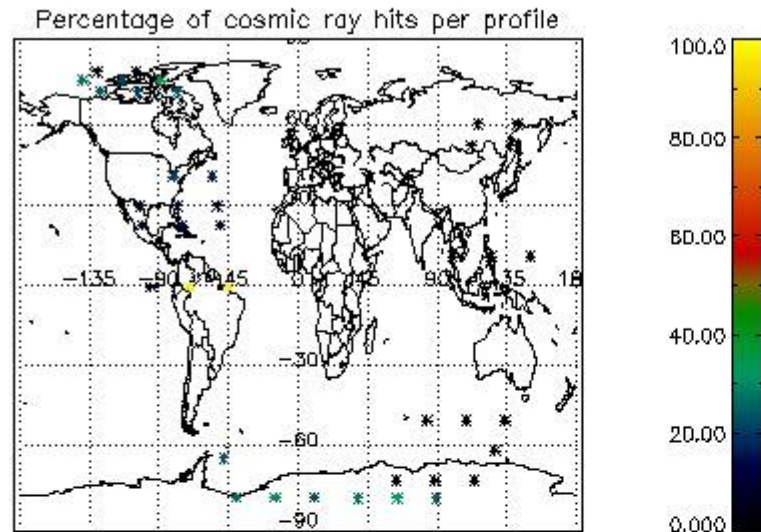
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.5000 %
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)

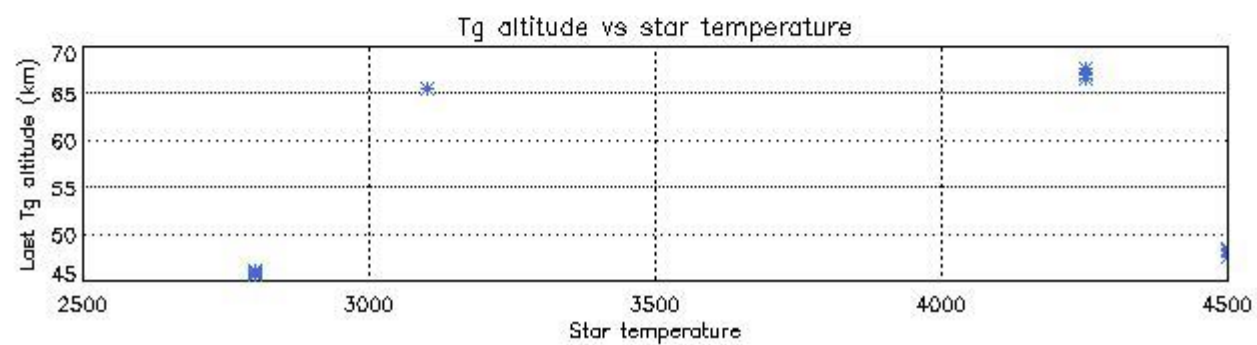
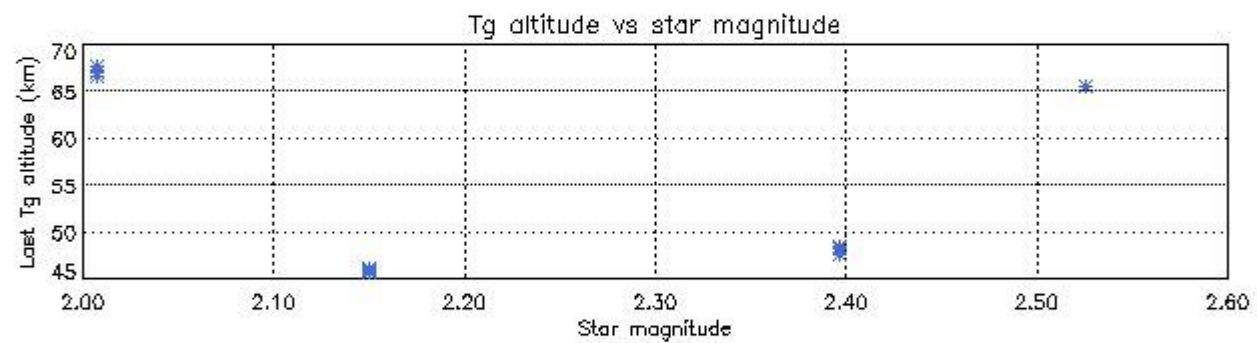
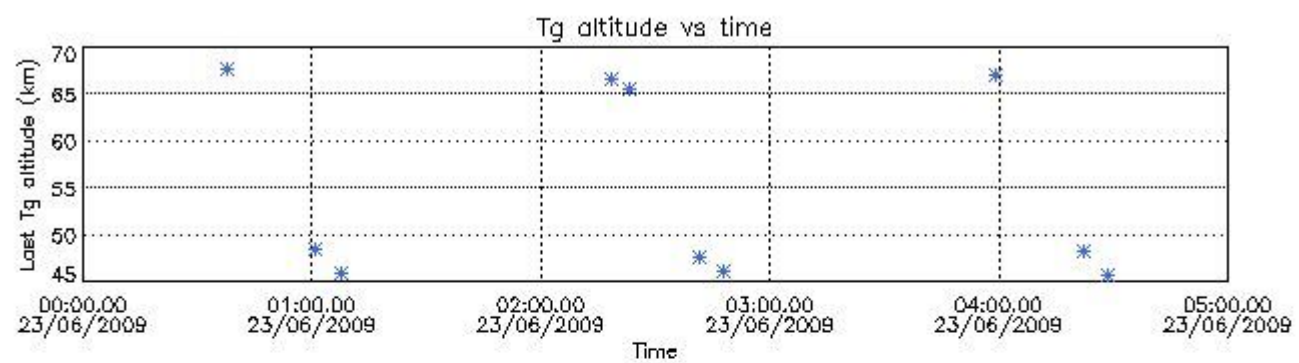
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	54.845	49.470	NaN
St. deviation:	10.293	0.83424	NaN
Maximum:	67.732	50.429	NaN
Minimum:	45.550	48.120	NaN
Number of data:	10.000	6.0000	NaN

### 6.2 Plot for DARK limb products

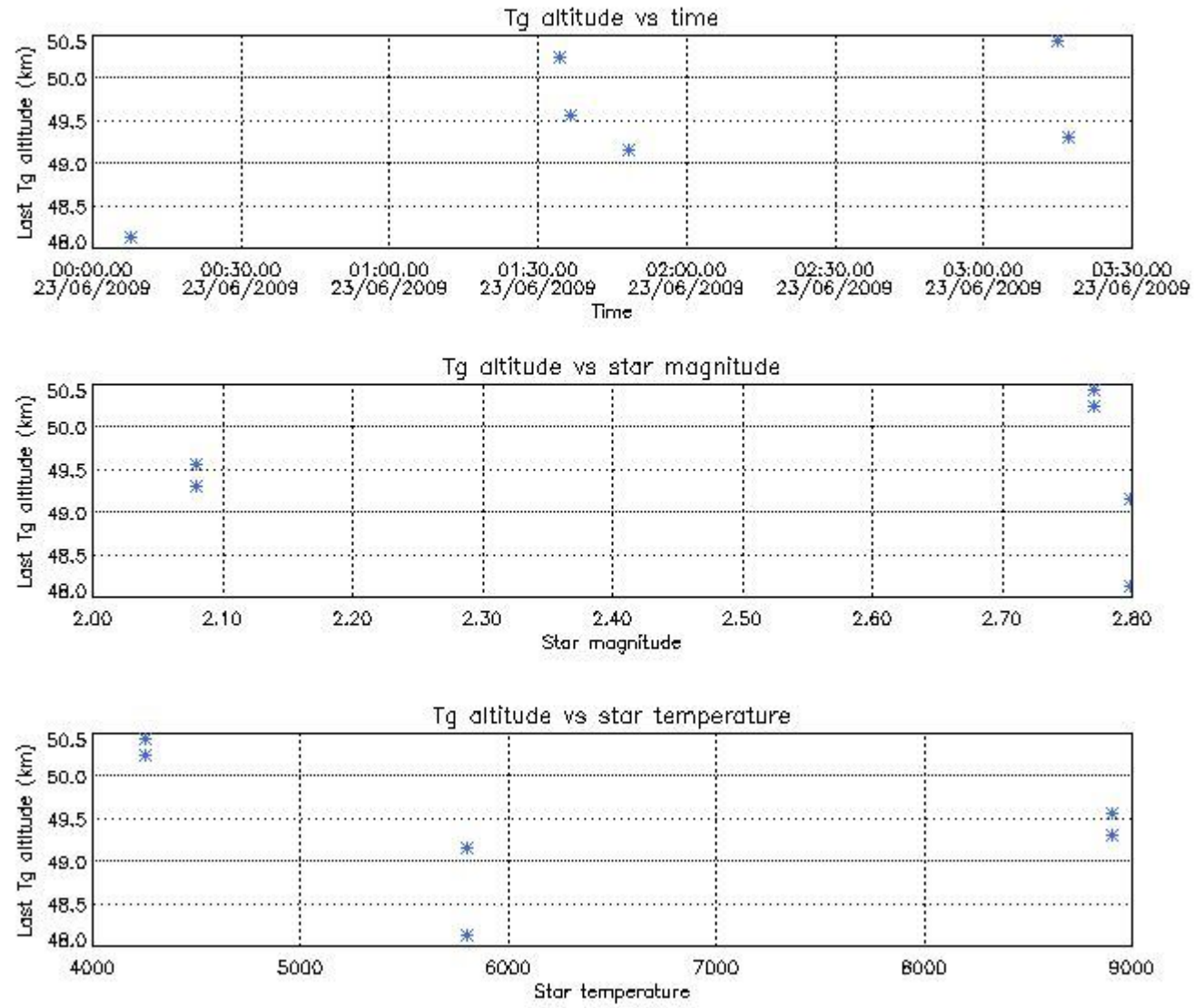


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

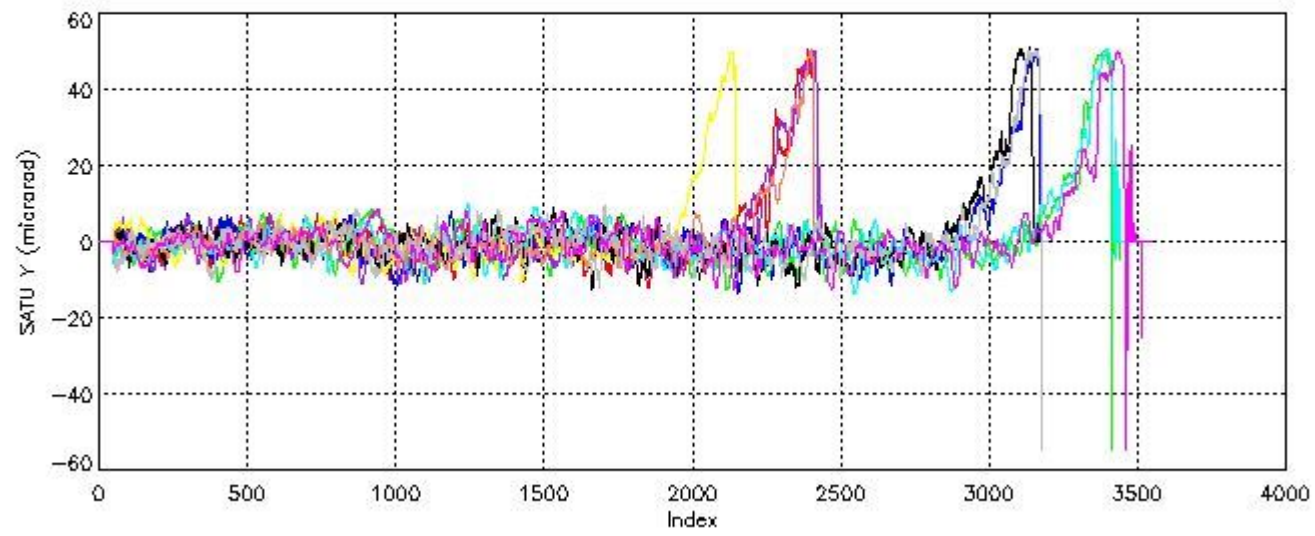
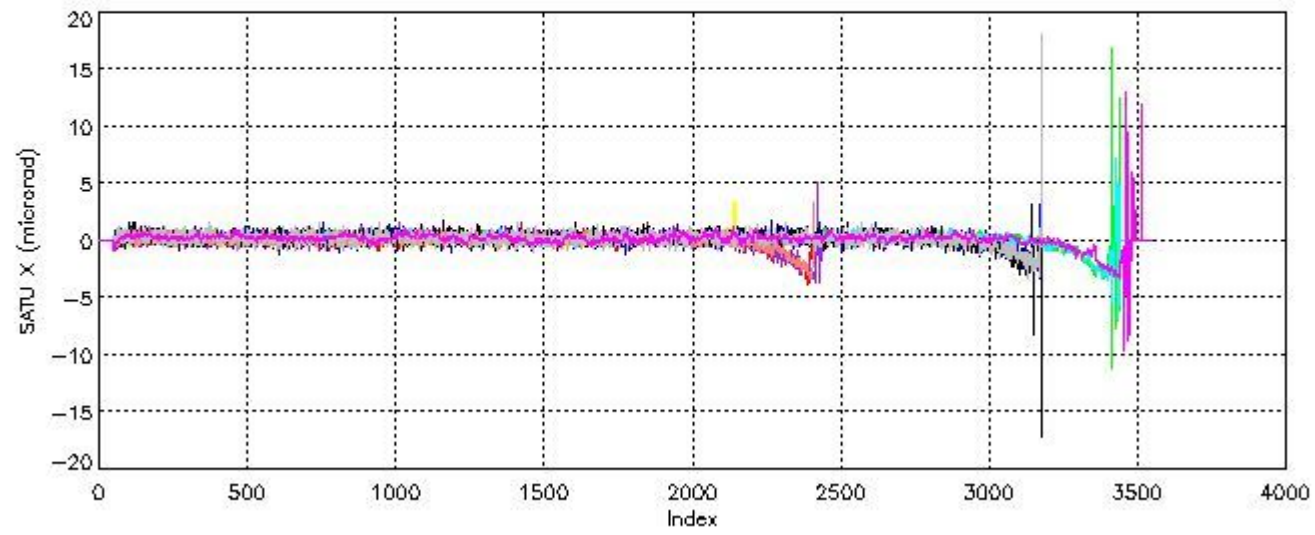


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20914	-0.37278	0.23577	-0.92268
St. deviation:	0.31379	3.1387	0.74489	3.8065
Maximum:	1.6000	8.5000	3.2000	12.600
Minimum:	-1.2000	-11.800	-2.9000	-15.500

Number of data:	10600.	10600.	5400.0	5400.0
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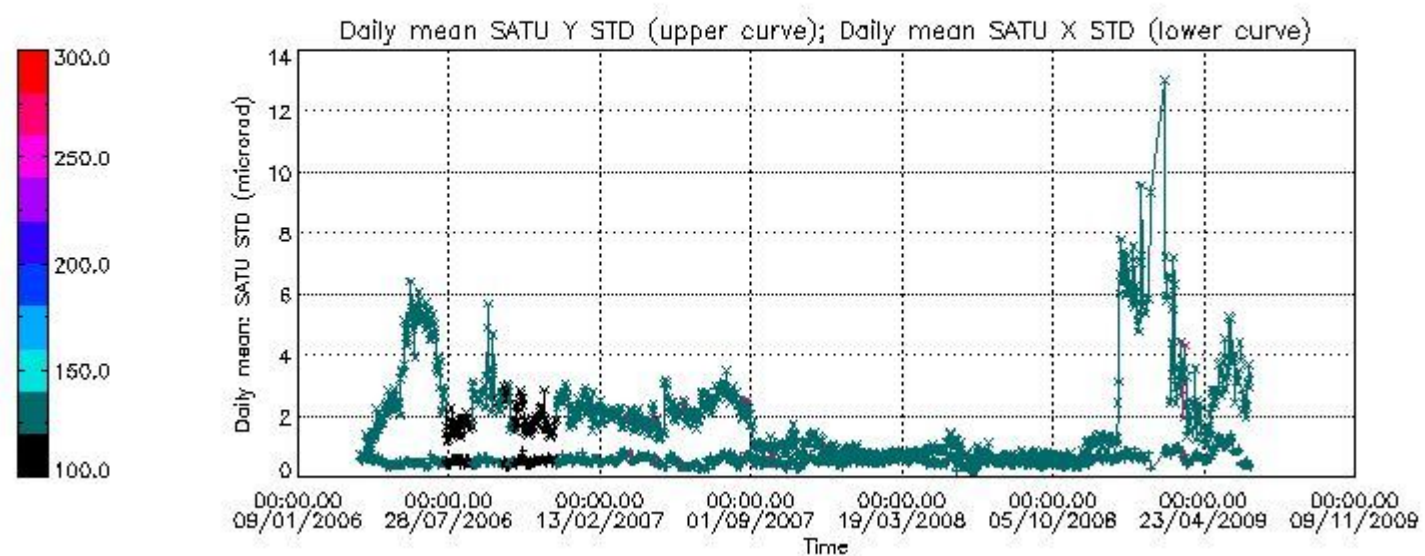
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

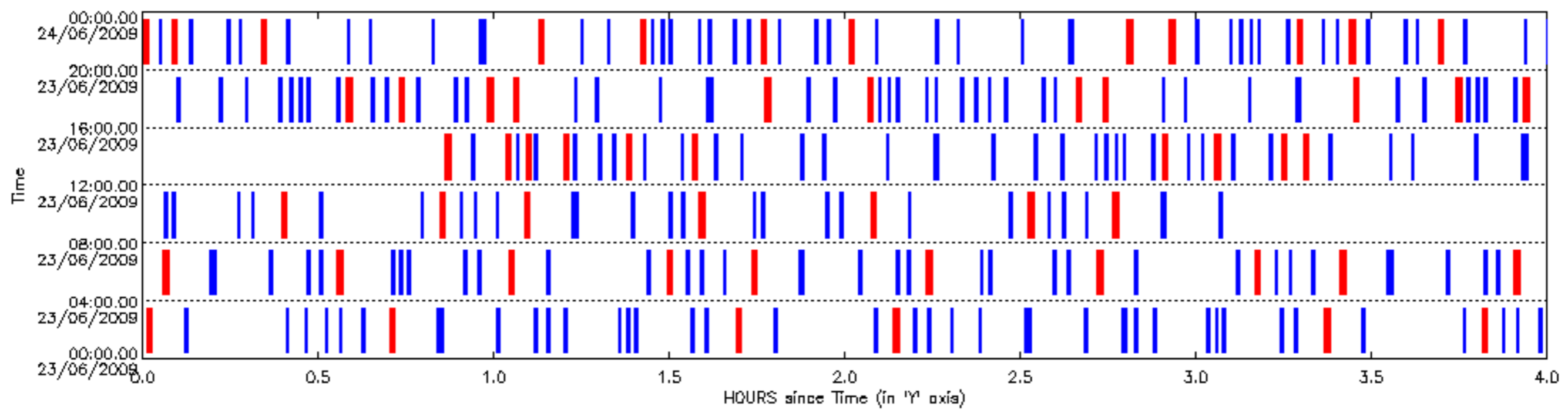


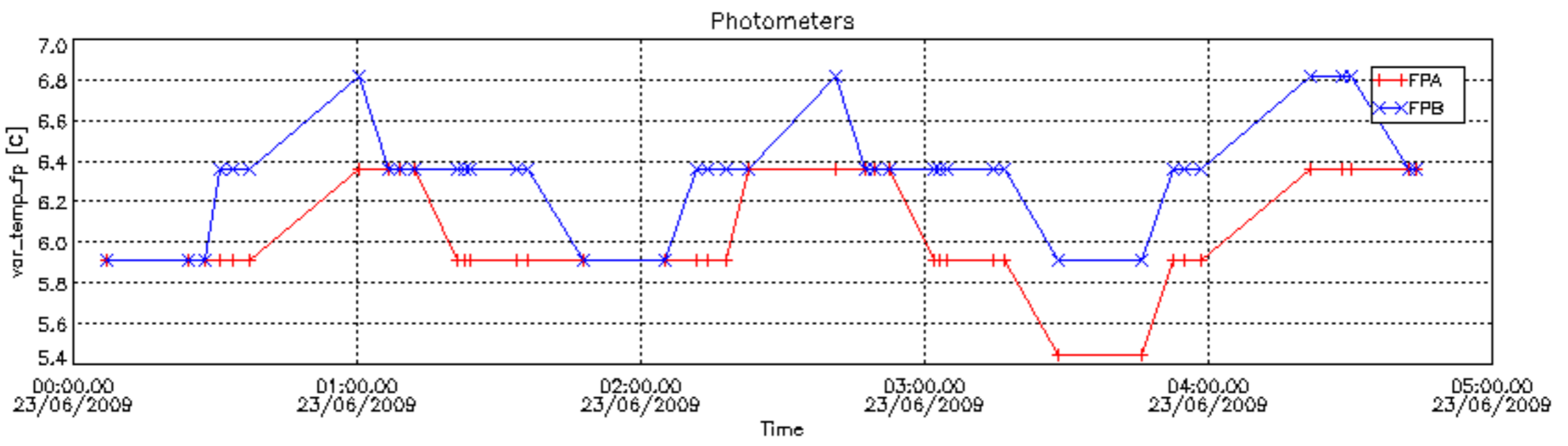
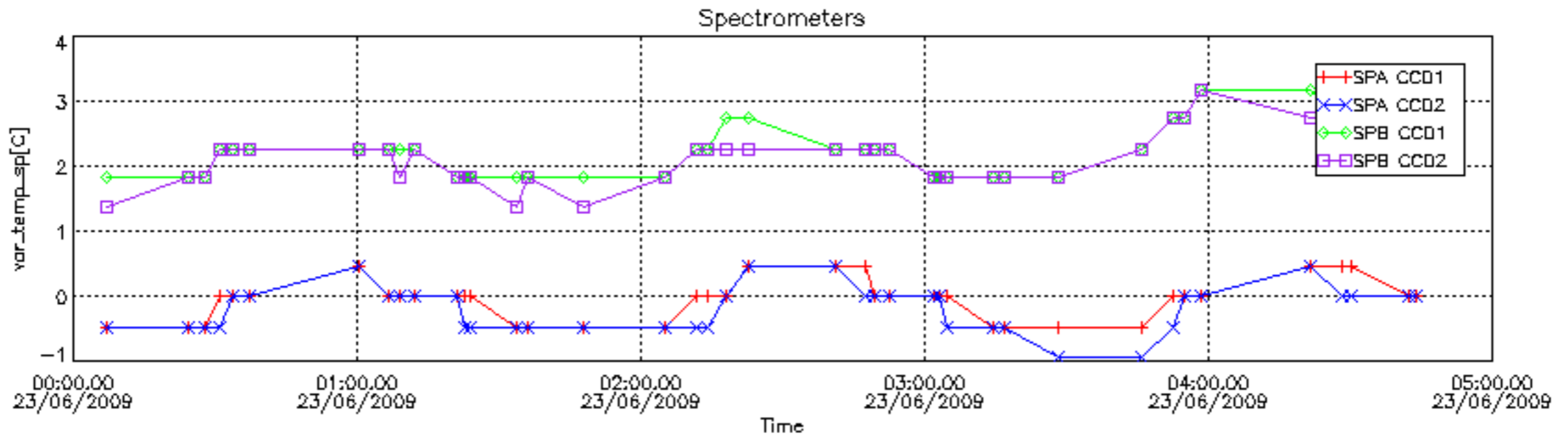
### 8. Auxiliary Data Files used for the production reported in section 2.4

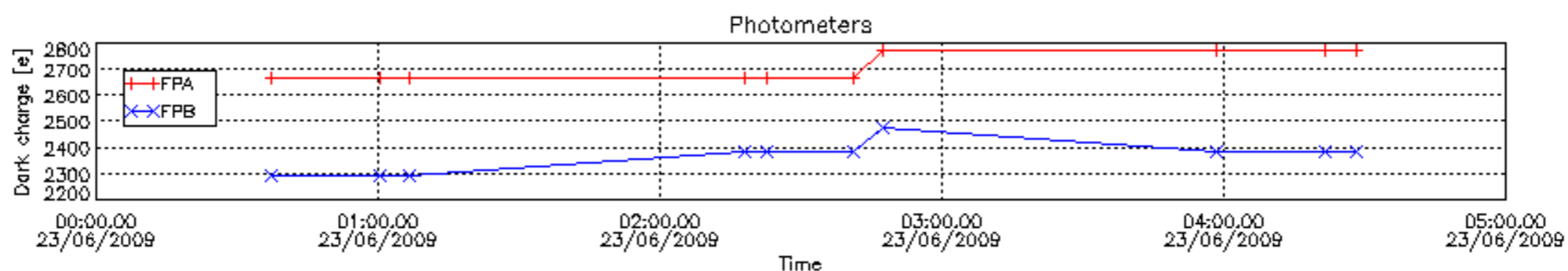
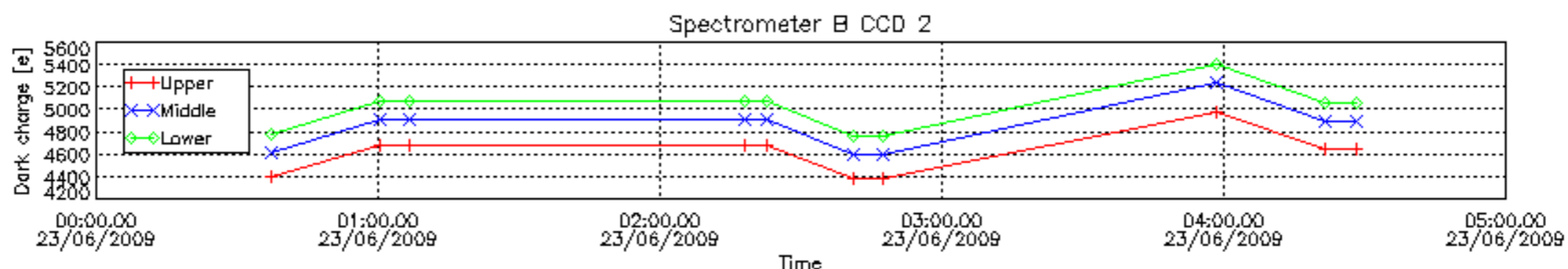
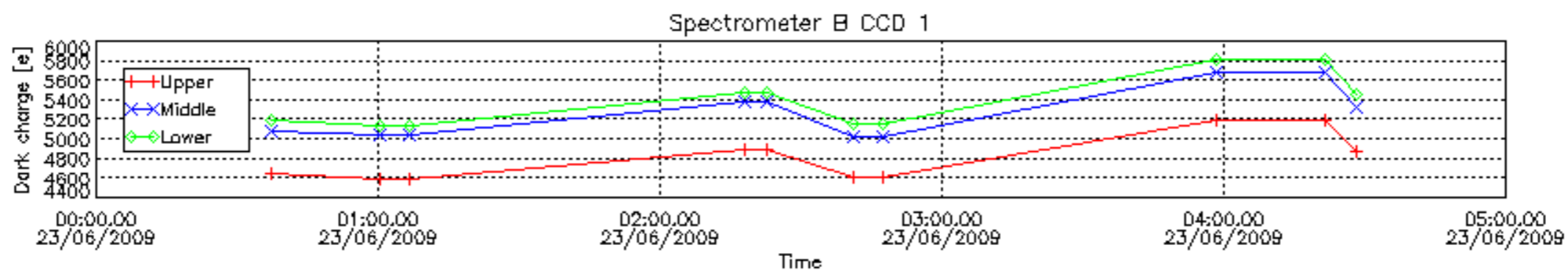
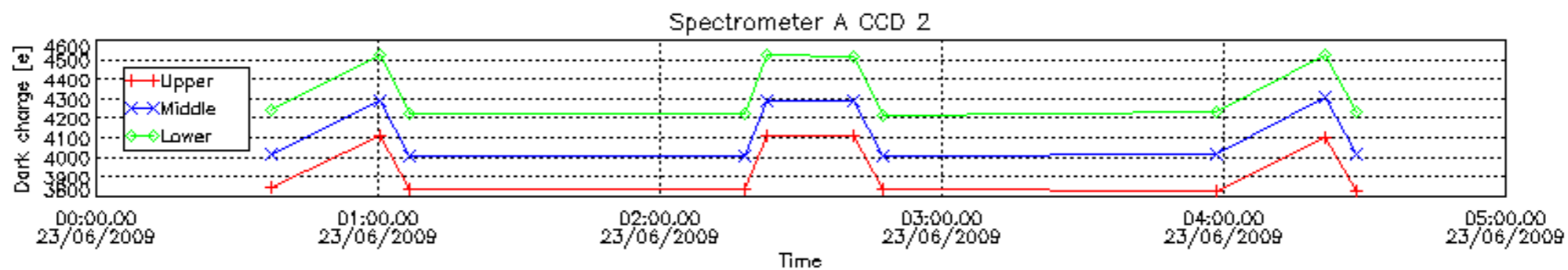
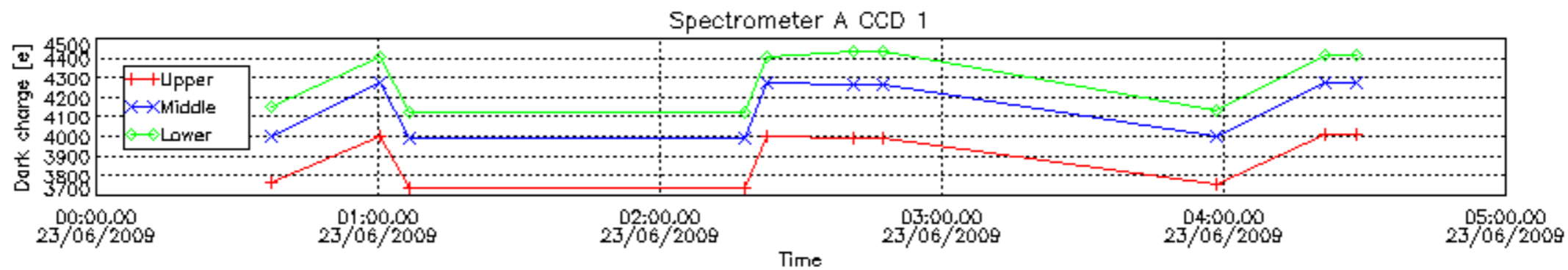
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

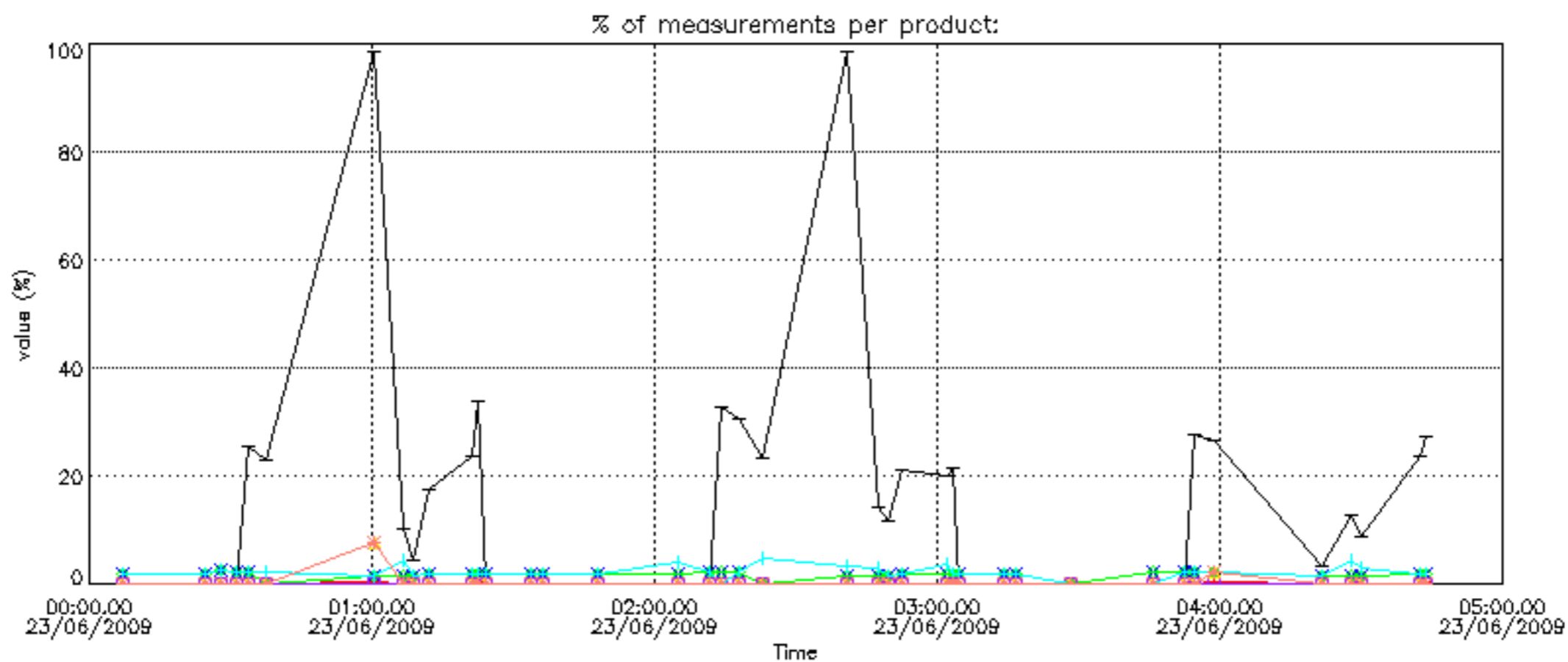
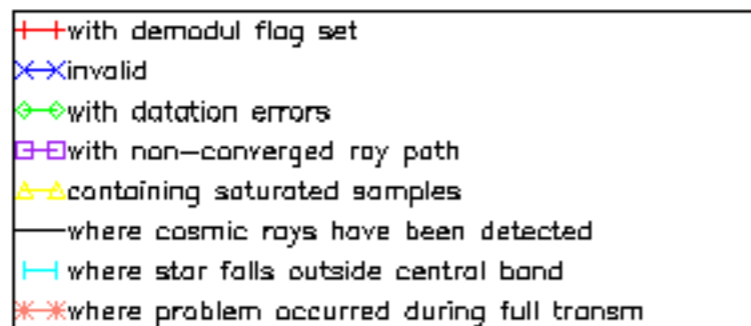
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090615_121800_20090613_000000_20100101_000000	1	23-JUN-2009 00:07:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-JUN-2009 00:07:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-JUN-2009 00:07:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-JUN-2009 00:07:12
ECMWF_FILE	AUX_ECF_AXNECM20090622_064112_20090622_210000_20090623_090000	1	23-JUN-2009 00:07:12
ECMWF_FILE	AUX_ECF_AXNECM20090622_184116_20090623_030000_20090623_150000	32	23-JUN-2009 03:45:41
OPTIONAL_ECMWF_FILE	MISSING	1	23-JUN-2009 00:07:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090622_212143_000060572080_00100_38230_8205.N1	1	23-JUN-2009 00:07:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090622_230759_000054192080_00101_38231_8206.N1	7	23-JUN-2009 01:00:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090623_022434_000041442080_00103_38233_8208.N1	22	23-JUN-2009 02:40:59





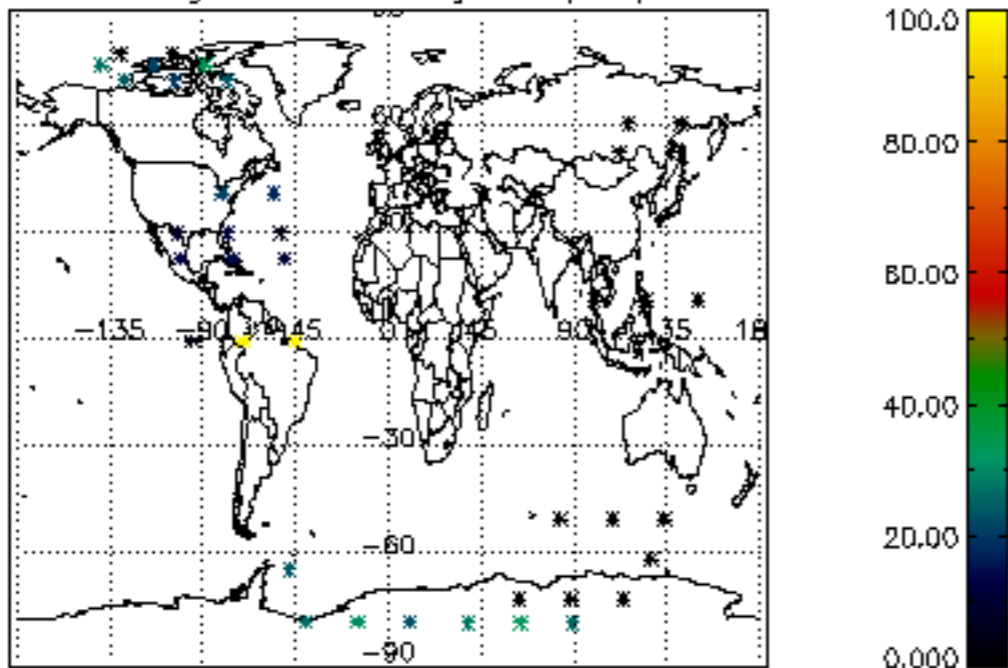




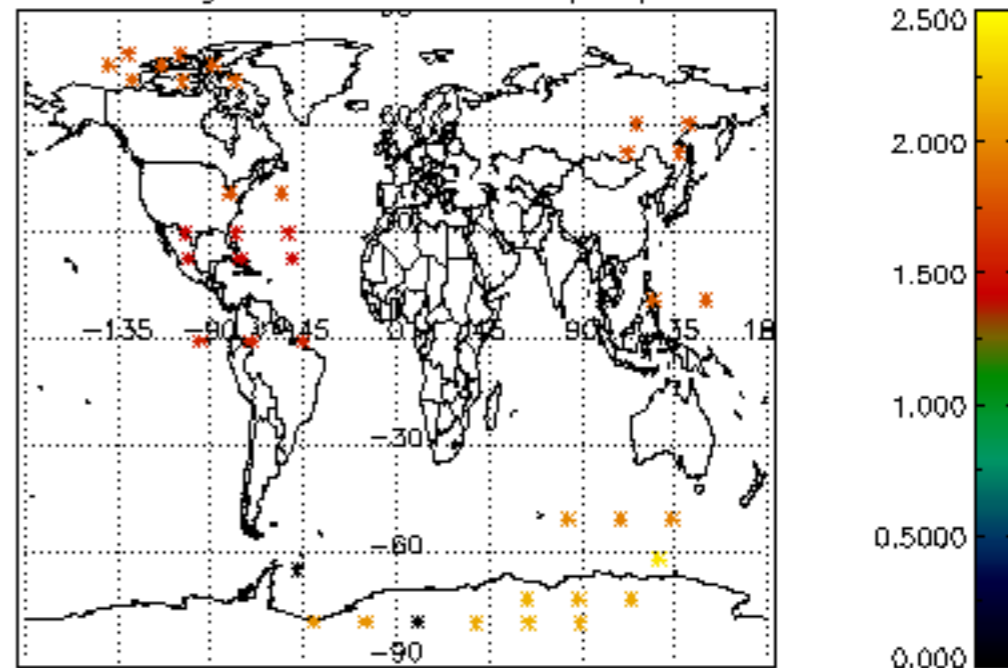




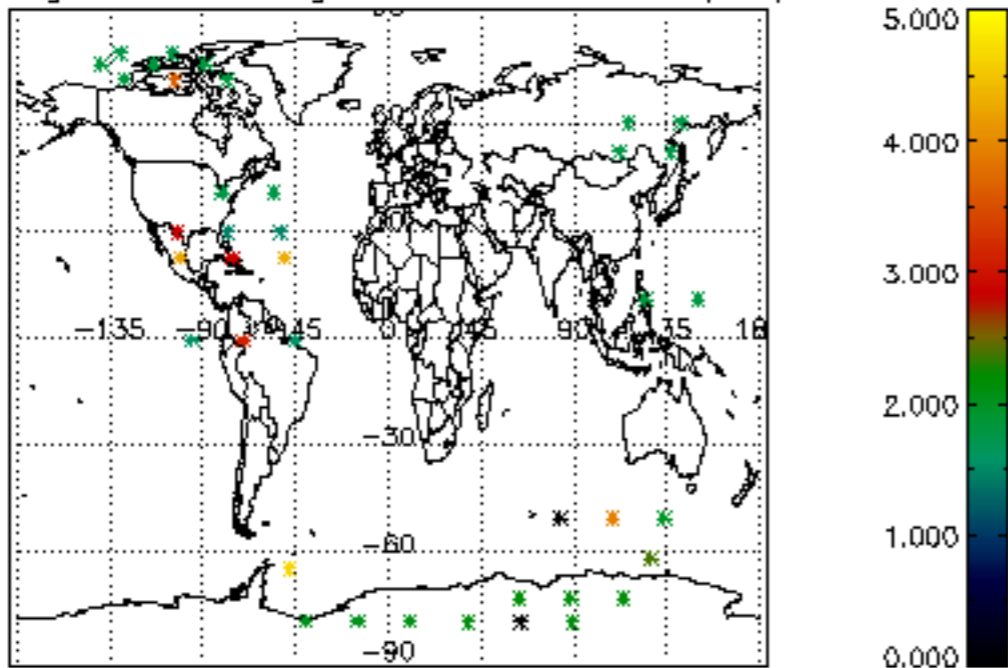
Percentage of cosmic ray hits per profile



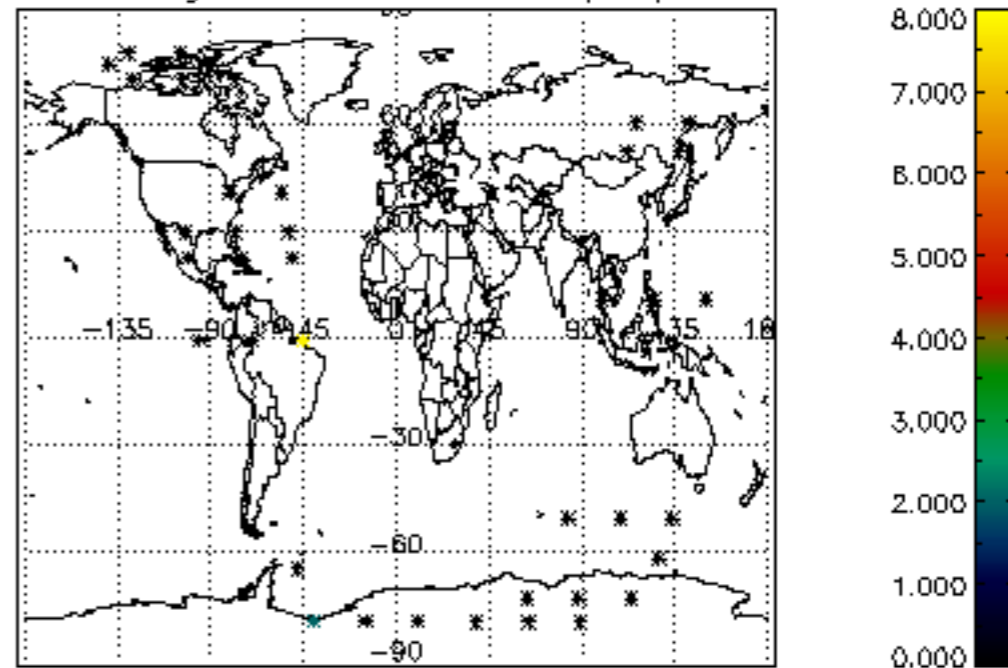
Percentage of datation errors per profile



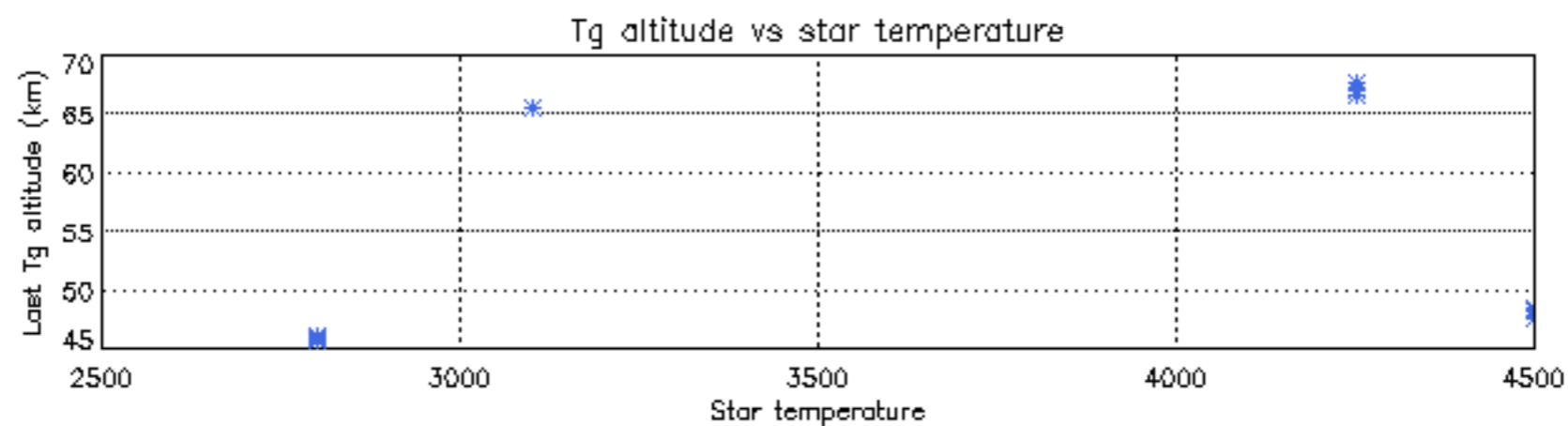
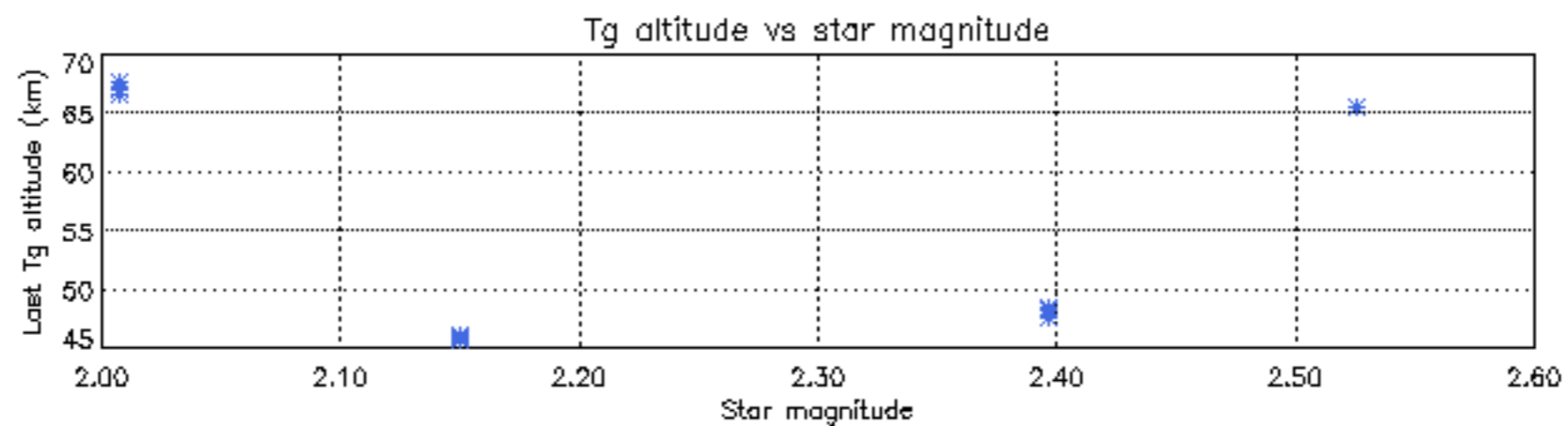
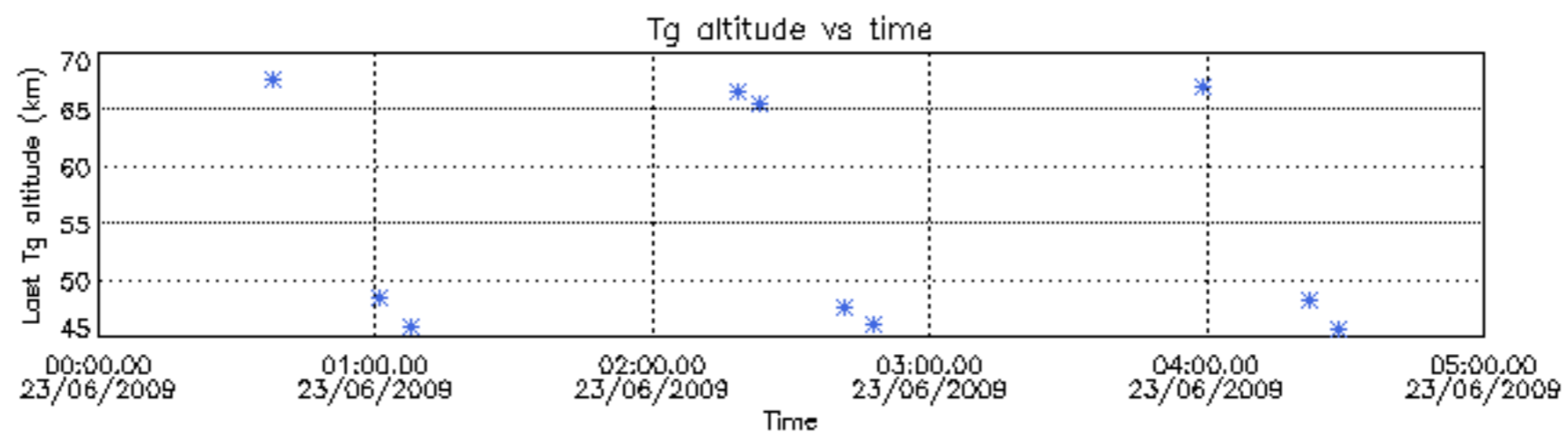
Percentage of star falling outside central band per profile



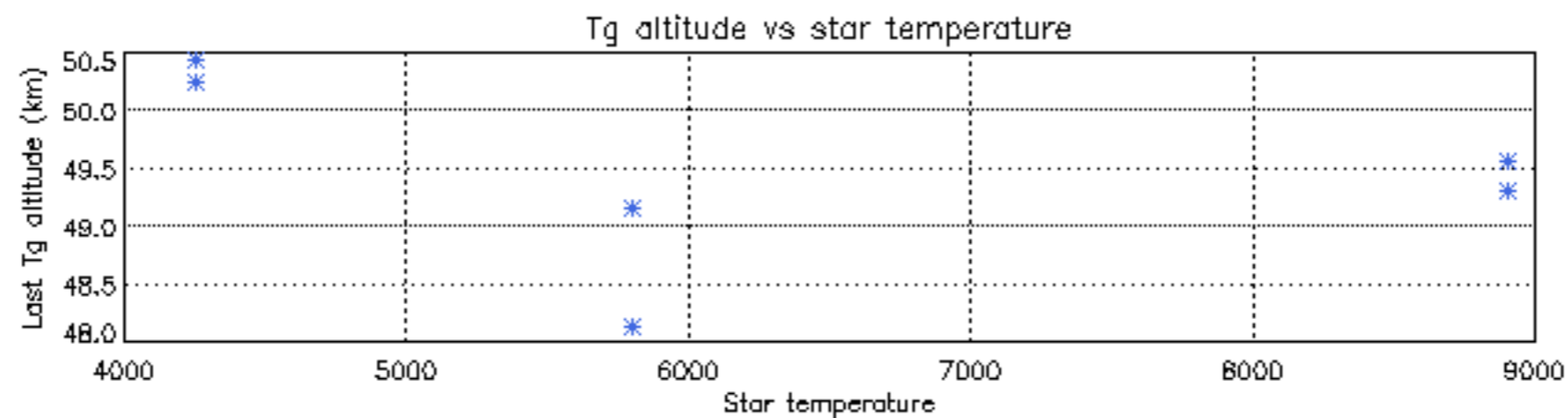
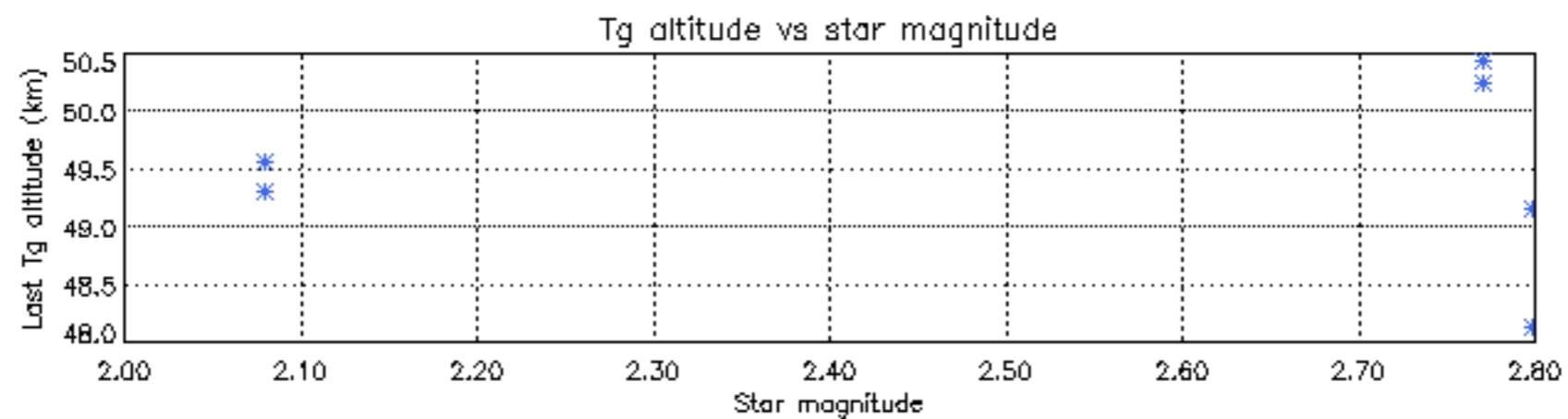
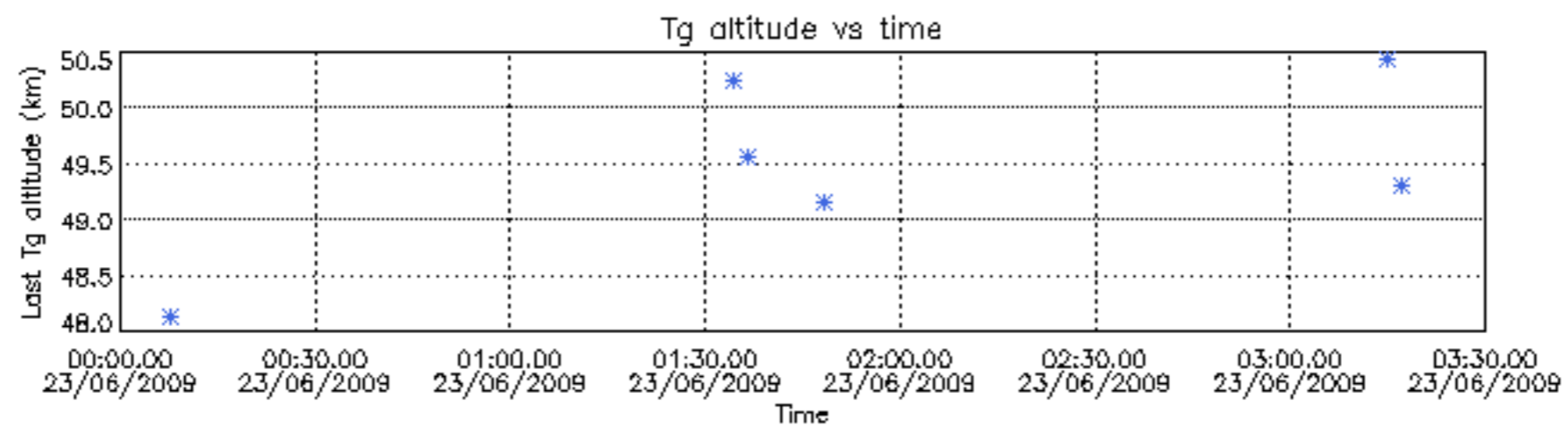
Percentage of saturation errors per profile

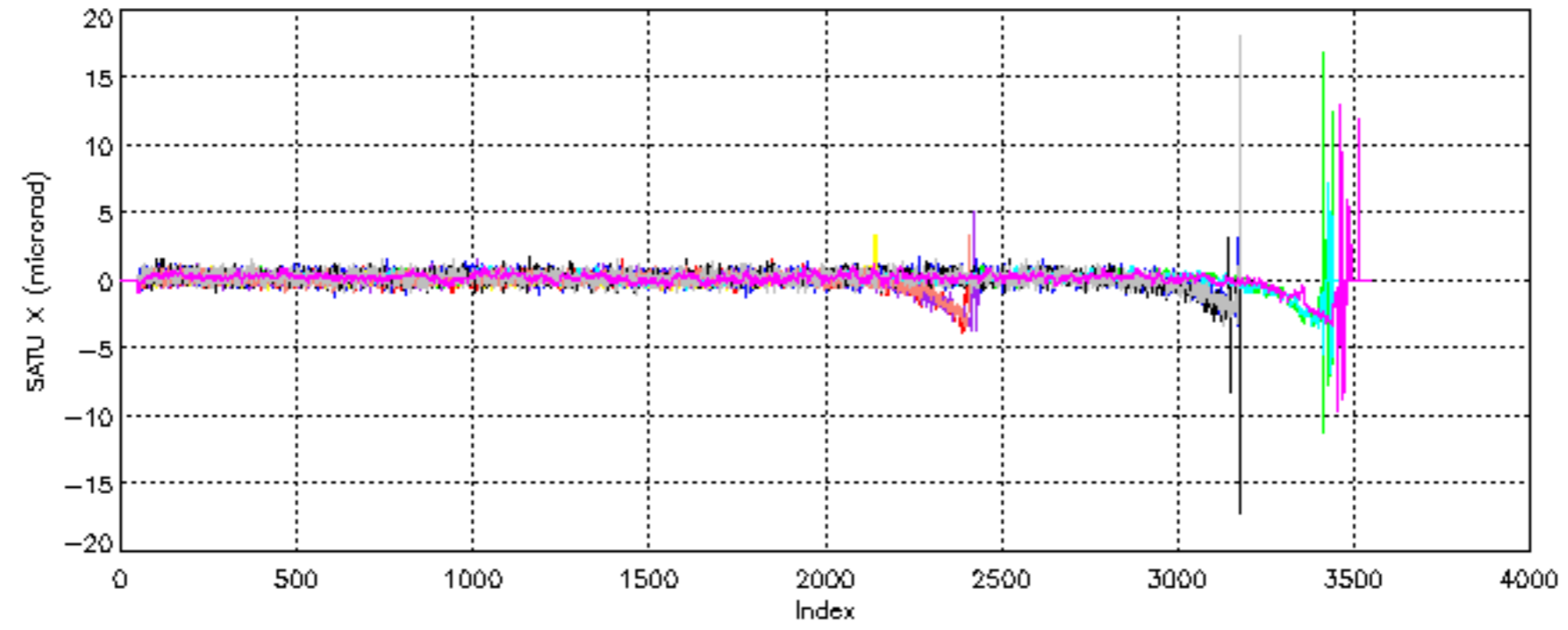


Tangent altitude at which the star is lost

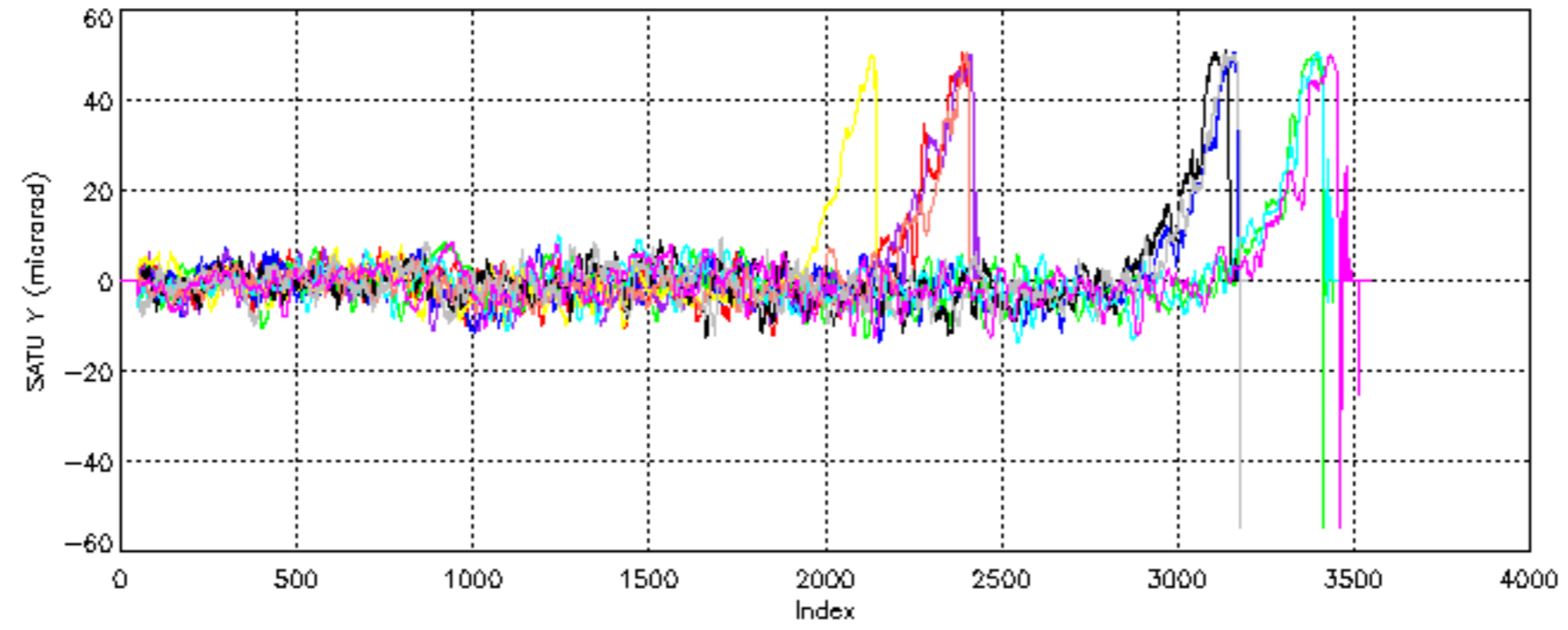


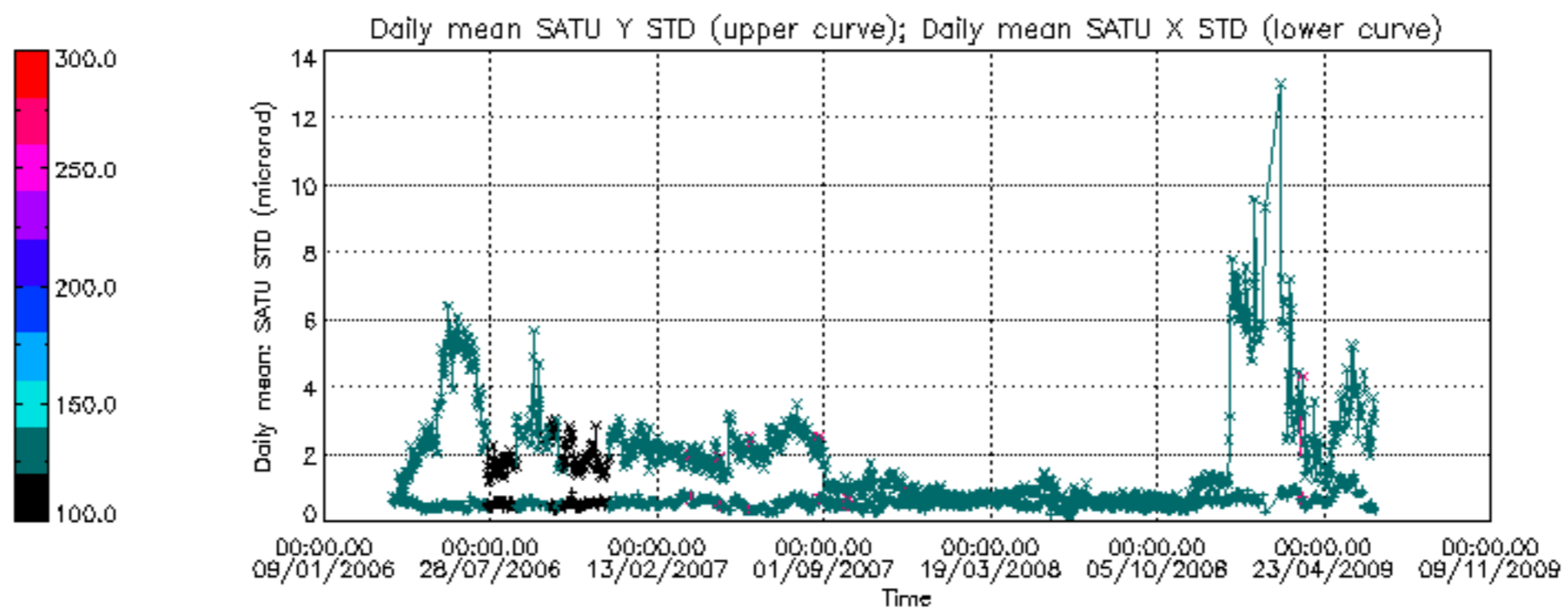
Tangent altitude at which the star is lost











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13; 7246.1; 01-JUN-2009 09:35:06; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37922  
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3; 2525.6; 01-JUN-2009 09:57:02; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37923  
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5; 3625.8; 01-JUN-2009 10:15:22; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37923  
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13; 7146.7; 01-JUN-2009 14:35:15; Dark ; 34.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 69; 0;37925
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 5; 3623.0; 01-JUN-2009 16:57:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;37927
 6; 3931.9; 01-JUN-2009 17:02:52; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37927
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 3; 1592.2; 01-JUN-2009 18:04:28; Bright; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;37928
 4; 2318.8; 01-JUN-2009 18:16:35; Bright; 31.5; 127; 27Bet Her ; 2.78; 4700;occ; 63; 0;37928
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8; 3931.6; 01-JUN-2009 18:43:27; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37928
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7; 2317.5; 02-JUN-2009 00:58:57; Bright; 31.0; 127; 27Bet Her ; 2.78; 4700;occ; 62; 0;37932
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8; 2515.2; 02-JUN-2009 22:50:02; Bright; 31.5; 133; 40Zet Her ; 2.81; 6000;occ; 63; 0;37945
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3; 2500.8; 05-JUN-2009 09:30:45; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37980
4; 2939.1; 05-JUN-2009 09:38:03; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37980
5; 3590.5; 05-JUN-2009 09:48:55; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37980
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8; 4887.8; 05-JUN-2009 10:10:32; Dark ; 31.0; 140; 88Gam Peg ; 2.83; 26000;occ; 62; 0;37980
9; 5317.9; 05-JUN-2009 10:17:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37980
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11; 6286.4; 05-JUN-2009 10:33:51; Dark ; 33.5; 31; Alp Gru ; 1.73; 15200;occ; 67; 0;37980
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13; 7274.3; 05-JUN-2009 10:50:19; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37980
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3; 2500.5; 05-JUN-2009 11:11:21; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37981

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7; 4569.7; 05-JUN-2009 11:45:50; Dark ; 29.0; 58; 21Alp And ; 2.07; 11000;occ; 58; 0;37981
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4; 1144.6; 06-JUN-2009 01:54:08; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;37990
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7; 2220.0; 06-JUN-2009 02:12:04; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;37990
8; 2497.0; 06-JUN-2009 02:16:41; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;37990
9; 2933.2; 06-JUN-2009 02:23:57; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37990
10; 3584.2; 06-JUN-2009 02:34:48; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37990
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8; 1145.4; 06-JUN-2009 03:34:45; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;37991
9; 1242.7; 06-JUN-2009 03:36:22; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37991
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12; 2496.4; 06-JUN-2009 03:57:16; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37991
13; 2932.6; 06-JUN-2009 04:04:32; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37991
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13; 2495.9; 06-JUN-2009 05:37:51; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37992
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2; 1269.2; 06-JUN-2009 20:22:48; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38001
3; 1333.0; 06-JUN-2009 20:23:52; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38001
4; 1599.8; 06-JUN-2009 20:28:19; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38001
5; 2050.8; 06-JUN-2009 20:35:50; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38001
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9; 3577.4; 06-JUN-2009 21:01:16; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38001
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11; 4401.9; 06-JUN-2009 21:15:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38001
12; 4574.2; 06-JUN-2009 21:17:53; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38001
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 3; 1150.2; 06-JUN-2009 22:01:25; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;38002  
 4; 1269.4; 06-JUN-2009 22:03:24; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38002  
 5; 1333.1; 06-JUN-2009 22:04:28; Dark ; 35.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 71; 0;38002  
 6; 1599.4; 06-JUN-2009 22:08:54; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38002  
 7; 2050.5; 06-JUN-2009 22:16:25; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38002  
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 9; 2493.1; 06-JUN-2009 22:23:48; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38002  
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 11; 3576.7; 06-JUN-2009 22:41:52; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38002  
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 4; 1151.2; 06-JUN-2009 23:42:02; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38003  
 5; 1270.2; 06-JUN-2009 23:44:01; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38003  
 6; 1333.7; 06-JUN-2009 23:45:04; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38003  
 7; 1599.8; 06-JUN-2009 23:49:31; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38003  
 8; 2049.9; 06-JUN-2009 23:57:01; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38003  
 9; 2212.4; 06-JUN-2009 23:59:43; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38003  
 10; 2492.3; 07-JUN-2009 00:04:23; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38003  
 11; 2926.5; 07-JUN-2009 00:11:37; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38003  
 12; 3576.1; 07-JUN-2009 00:22:27; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38003  
 13; 3914.9; 07-JUN-2009 00:28:06; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;38003  
 14; 4402.1; 07-JUN-2009 00:36:13; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38003  
 15; 4574.6; 07-JUN-2009 00:39:05; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38003  
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 3; 2495.6; 06-JUN-2009 07:18:27; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37993  
 4; 2931.4; 06-JUN-2009 07:25:43; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37993  
 5; 3582.5; 06-JUN-2009 07:36:34; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37993  
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 10; 5355.8; 06-JUN-2009 08:06:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37993  
 11; 6016.4; 06-JUN-2009 08:17:08; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;37993  
 12; 6298.9; 06-JUN-2009 08:21:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37993  
 13; 7182.5; 06-JUN-2009 08:36:34; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;37993  
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 15; 7635.3; 06-JUN-2009 08:44:07; Bright; 28.0; 86; 35Eta Oph ; 2.43; 10200;occ; 56; 0;37993

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 5; 1270.4; 07-JUN-2009 01:24:37; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38004  
 6; 1334.3; 07-JUN-2009 01:25:41; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38004  
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 9; 2212.0; 07-JUN-2009 01:40:19; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38004  
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 3; -1461.0; 07-JUN-2009 02:19:42; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38004  
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4; 205.9; 10-JUN-2009 23:00:25; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38060
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7; 1176.9; 10-JUN-2009 23:16:36; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38060
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11; 2897.2; 10-JUN-2009 23:45:16; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38060
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5; 3902.5; 10-JUN-2009 08:56:38; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38051
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11; 7210.7; 10-JUN-2009 13:12:58; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38053
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4; 3901.4; 10-JUN-2009 13:58:25; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38054
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3; 2900.1; 10-JUN-2009 15:22:19; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38055
4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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5; 208.9; 11-JUN-2009 04:02:15; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38063
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
4; 3535.0; 11-JUN-2009 09:59:29; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38066
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3; 2023.3; 11-JUN-2009 19:37:53; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38072
4; 2179.3; 11-JUN-2009 19:40:29; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38072
5; 2892.1; 11-JUN-2009 19:52:22; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38072
6; 3531.2; 11-JUN-2009 20:03:01; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38072
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4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
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6; 438.7; 12-JUN-2009 01:53:52; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38076
7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
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5; 105.6; 12-JUN-2009 03:28:55; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38077
6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
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8; 440.1; 12-JUN-2009 03:34:30; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38077
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7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
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9; 1185.1; 12-JUN-2009 05:27:31; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38078
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11; 2021.7; 12-JUN-2009 05:41:27; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38078
12; 2176.8; 12-JUN-2009 05:44:02; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38078
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
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6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
5; 355.3; 12-JUN-2009 21:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38088
6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
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11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
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 3; 2888.4; 12-JUN-2009 09:17:06; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38080
 4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080
 5; 3893.9; 12-JUN-2009 09:33:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38080
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 9; 2017.9; 13-JUN-2009 00:07:59; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38089
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1; 2005.8; 16-JUN-2009 08:36:31; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38137  
 2; 2156.2; 16-JUN-2009 08:39:02; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38137  
 3; 2794.7; 16-JUN-2009 08:49:40; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38137  
 4; 2893.8; 16-JUN-2009 08:51:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38137  
 5; 3487.6; 16-JUN-2009 09:01:13; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38137  
 6; 3875.5; 16-JUN-2009 09:07:41; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38137  
 7; 3959.3; 16-JUN-2009 09:09:05; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38137  
 8; 4412.0; 16-JUN-2009 09:16:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38137  
 9; 5002.2; 16-JUN-2009 09:26:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38137  
 10; 5572.2; 16-JUN-2009 09:35:58; Dark ; 33.5; 52; 16Bet Cet ; 2.04; 4500;occ; 67; 0;38137  
 11; 6317.5; 16-JUN-2009 09:48:23; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38137  
 12; 6440.8; 16-JUN-2009 09:50:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137  
 13; 6558.5; 16-JUN-2009 09:52:24; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38137  
 14; 7275.9; 16-JUN-2009 10:04:21; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137  
 15; 7363.4; 16-JUN-2009 10:05:49; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137  
 16; 7469.8; 16-JUN-2009 10:07:35; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38137

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1; 2005.5; 16-JUN-2009 10:17:07; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38138  
 2; 2155.9; 16-JUN-2009 10:19:37; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38138  
 3; 2794.0; 16-JUN-2009 10:30:15; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38138  
 4; 2893.3; 16-JUN-2009 10:31:55; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38138  
 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138  
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138  
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138  
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138  
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138  
 10; 5572.7; 16-JUN-2009 11:16:34; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38138  
 11; 6318.5; 16-JUN-2009 11:29:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38138  
 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138  
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138  
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138  
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138  
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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1; 2005.5; 16-JUN-2009 11:57:43; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38139  
 2; 2155.6; 16-JUN-2009 12:00:13; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38139  
 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139  
 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139  
 5; 3486.1; 16-JUN-2009 12:22:23; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38139  
 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139  
 7; 3958.5; 16-JUN-2009 12:30:16; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38139  
 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139  
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139  
 10; 5574.0; 16-JUN-2009 12:57:11; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38139  
 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139  
 12; 6442.7; 16-JUN-2009 13:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38139  
 13; 6561.6; 16-JUN-2009 13:13:39; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38139  
 14; 7276.7; 16-JUN-2009 13:25:34; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38139  
 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139  
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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1; 1434.5; 16-JUN-2009 13:28:48; Bright; 38.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 76; 0;38140  
 2; 2005.2; 16-JUN-2009 13:38:18; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38140  
 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140  
 4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140  
 5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140



6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140  
 7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140  
 8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140  
 9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140  
 10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140  
 11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140  
 12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140  
 13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140  
 14; 6563.0; 16-JUN-2009 14:54:16; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38140  
 15; 7277.2; 16-JUN-2009 15:06:10; Dark ; 20.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 41; 0;38140

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1; 1241.2; 16-JUN-2009 15:06:10; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38141  
 2; 1328.4; 16-JUN-2009 15:07:37; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38141  
 3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141  
 4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141  
 5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141  
 6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141  
 7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141  
 8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141  
 9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141  
 10; 3958.3; 16-JUN-2009 15:51:27; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38141  
 11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141  
 12; 5004.4; 16-JUN-2009 16:08:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38141  
 13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141  
 14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141  
 15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141  
 16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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1; 1241.6; 16-JUN-2009 16:46:47; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38142  
 2; 1329.0; 16-JUN-2009 16:48:14; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38142  
 3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142  
 4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142  
 5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142  
 6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142  
 7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142  
 8; 3484.2; 16-JUN-2009 17:24:09; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38142  
 9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142  
 10; 3958.0; 16-JUN-2009 17:32:03; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38142  
 11; 4412.2; 16-JUN-2009 17:39:37; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38142  
 12; 5470.4; 16-JUN-2009 17:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38142  
 13; 5577.4; 16-JUN-2009 17:59:02; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38142  
 14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142  
 15; 6445.9; 16-JUN-2009 18:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38142  
 16; 6565.6; 16-JUN-2009 18:15:31; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38142

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1; 1242.1; 16-JUN-2009 18:27:23; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38143  
 2; 1329.2; 16-JUN-2009 18:28:50; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38143  
 3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143  
 4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143  
 5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143  
 6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143  
 7; 2890.9; 16-JUN-2009 18:54:52; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38143  
 8; 3483.5; 16-JUN-2009 19:04:45; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38143  
 9; 3873.6; 16-JUN-2009 19:11:15; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38143  
 10; 3957.9; 16-JUN-2009 19:12:39; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38143  
 11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143  
 12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143  
 13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143  
 14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143  
 15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143  
 16; 6566.8; 16-JUN-2009 19:56:08; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38143

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 3; 290.3; 17-JUN-2009 00:53:55; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38147  
 4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147  
 5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147  
 6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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7; 1330.9; 17-JUN-2009 01:11:15; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38147
8; 1436.8; 17-JUN-2009 01:13:01; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38147
9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
10; 2153.3; 17-JUN-2009 01:24:58; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38147
11; 2785.7; 17-JUN-2009 01:35:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38147
12; 2888.9; 17-JUN-2009 01:37:14; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38147
13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
14; 3872.2; 17-JUN-2009 01:53:37; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38147
15; 3956.6; 17-JUN-2009 01:55:01; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38147
16; 4412.5; 17-JUN-2009 02:02:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38147
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2; -453.3; 17-JUN-2009 02:22:07; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38147
3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
4; 414.4; 17-JUN-2009 02:36:35; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38148
5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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2; -2079.7; 17-JUN-2009 03:35:37; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38148
3; -1623.5; 17-JUN-2009 03:43:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38148
4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
5; -558.5; 17-JUN-2009 04:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38148
6; -452.4; 17-JUN-2009 04:02:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38148
7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
10; 1244.8; 17-JUN-2009 04:31:01; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38149
11; 1331.4; 17-JUN-2009 04:32:28; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38149
12; 1436.9; 17-JUN-2009 04:34:13; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38149
13; 2003.1; 17-JUN-2009 04:43:40; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38149
14; 2152.8; 17-JUN-2009 04:46:09; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38149
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8; 416.5; 17-JUN-2009 05:57:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38150
9; 538.4; 17-JUN-2009 05:59:51; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38150
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14; 2152.3; 17-JUN-2009 06:26:45; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38150
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16; 2887.4; 17-JUN-2009 06:39:00; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38150
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 9; 556.9; 18-JUN-2009 05:28:32; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38164
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 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174  
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14; 1447.7; 20-JUN-2009 04:40:09; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38192
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 3; 1449.6; 20-JUN-2009 19:45:35; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38201
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 5; 2140.0; 20-JUN-2009 19:57:05; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38201
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9; 4423.7; 29-JUN-2009 19:11:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38329
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13; 6506.5; 29-JUN-2009 19:46:30; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38329
14; 6624.0; 29-JUN-2009 19:48:27; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38329
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6; 1478.2; 30-JUN-2009 01:05:05; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;38333
7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
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