

# GOMOS Daily Report 19-APR-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	22APR2009 08:56:03
Data source version	GOMOS/5.00
Start time of products	19APR2009 00:12:03
Stop time of products	19APR2009 22:00:02
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

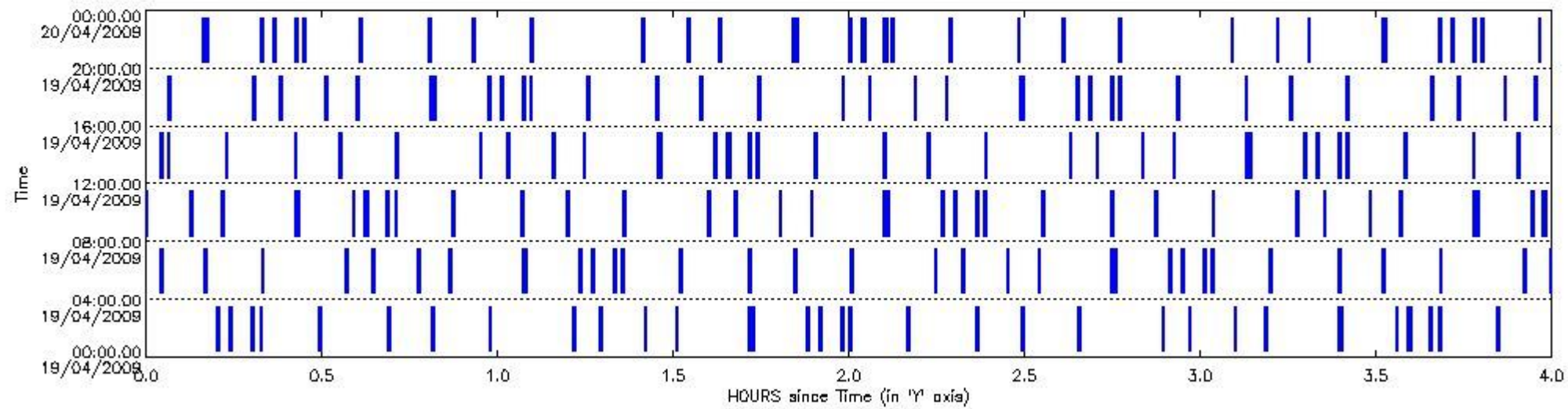
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

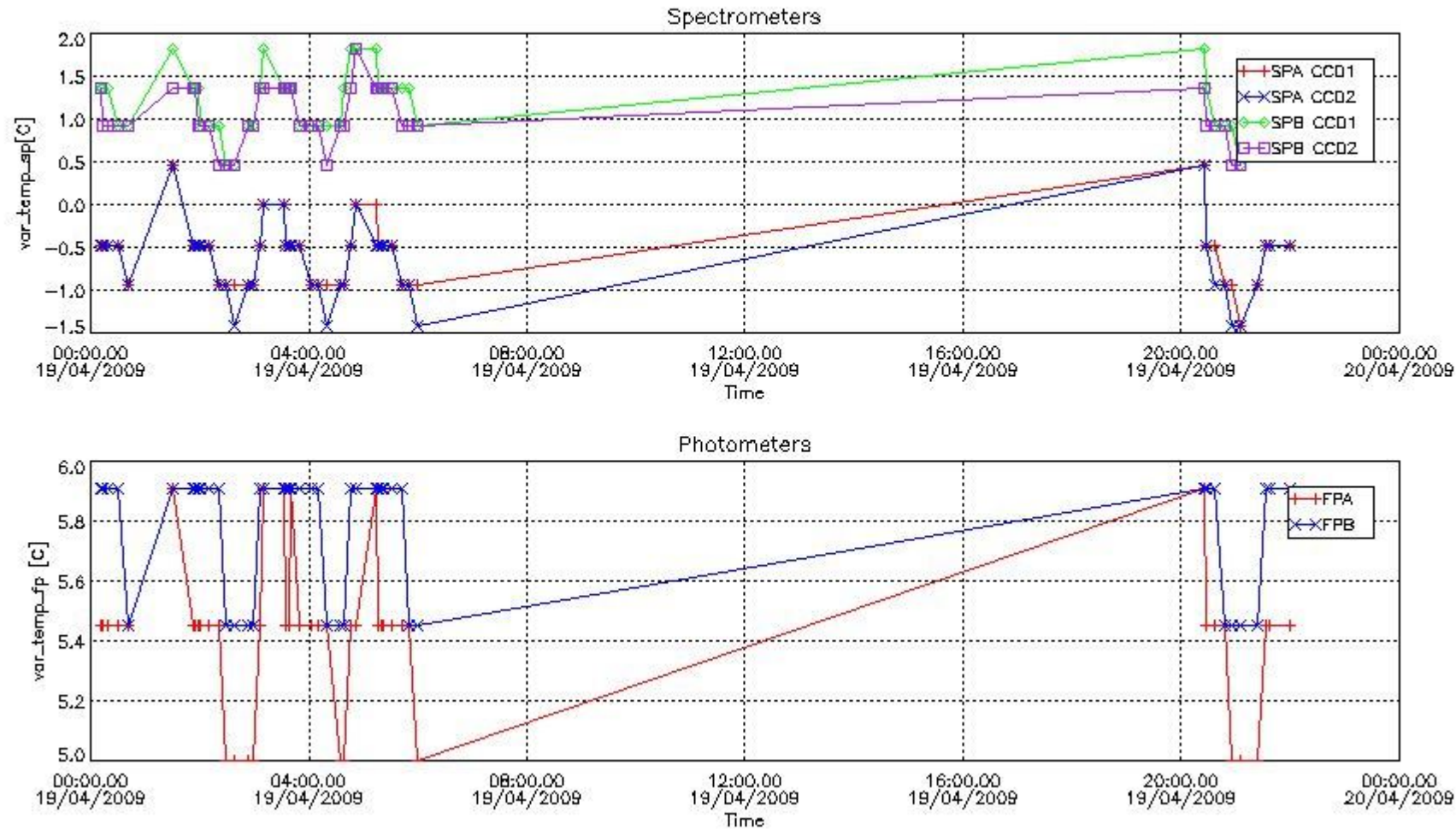
### 2.4 Summary of processed GOM\_TRA\_1P products

**!Warning: No products without errors in BRIGHT limb conditions found**

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090419_001203_000000312078_00174_37302_9994.N1	19-APR-2009 00:12:03	Dark	30.500	147	Alp Ara	2.8770	26000.	61	37302	No
2	GOM_TRA_1PNPDE20090419_001406_000000392078_00174_37302_9995.N1	19-APR-2009 00:14:06	Straylight	39.000	25	35Lam Sco	1.6200	28000.	78	37302	No
3	GOM_TRA_1PNPDE20090419_001754_000000292078_00174_37302_9996.N1	19-APR-2009 00:17:54	Straylight	29.000	75	26Eps Sco	2.2910	4250.0	58	37302	No
4	GOM_TRA_1PNPDE20090419_001920_000000292078_00174_37302_9997.N1	19-APR-2009 00:19:20	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37302	No
5	GOM_TRA_1PNPDE20090419_002914_000000322078_00174_37302_9998.N1	19-APR-2009 00:29:14	Twilight_and_stray	32.000	122	9Alp2Lib	2.7470	9700.0	64	37302	No
6	GOM_TRA_1PNPDE20090419_004104_000000302078_00174_37302_9999.N1	19-APR-2009 00:41:04	Twilight_and_stray	30.000	111	8Eta Boo	2.6800	6000.0	60	37302	No
7	GOM_TRA_1PNPDE20090419_013021_000000262078_00174_37302_0147.N1	19-APR-2009 01:30:21	Dark	26.000	154	22Bet Aqr	2.8990	5700.0	52	37302	Yes
8	GOM_TRA_1PNPDE20090419_015241_000000302078_00175_37303_0148.N1	19-APR-2009 01:52:41	Dark	30.000	147	Alp Ara	2.8770	26000.	60	37303	No
9	GOM_TRA_1PNPDE20090419_015443_000000432078_00175_37303_0149.N1	19-APR-2009 01:54:43	Straylight	42.500	25	35Lam Sco	1.6200	28000.	85	37303	No
10	GOM_TRA_1PNPDE20090419_015831_000000292078_00175_37303_0150.N1	19-APR-2009 01:58:31	Straylight	29.000	75	26Eps Sco	2.2910	4250.0	58	37303	No
11	GOM_TRA_1PNPDE20090419_015956_000000302078_00175_37303_0151.N1	19-APR-2009 01:59:56	Straylight	30.000	131	Gam Lup	2.8000	26000.	60	37303	No

12	GOM_TRA_1PNPDE20090419_020950_000000332078_00175_37303_0152.N1	19-APR-2009 02:09:50	Twilight	32.500	122	9Alp2Lib	2.7470	9700.0	65	37303	No
13	GOM_TRA_1PNPDE20090419_022139_000000312078_00175_37303_0153.N1	19-APR-2009 02:21:39	Twilight	31.000	111	8Eta Boo	2.6800	6000.0	62	37303	No
14	GOM_TRA_1PNPDE20090419_022917_000000342078_00175_37303_0154.N1	19-APR-2009 02:29:17	Twilight	33.500	180	27Gam Boo	3.0400	8000.0	67	37303	No
15	GOM_TRA_1PNPDE20090419_023901_000000302078_00175_37303_0155.N1	19-APR-2009 02:39:01	Twilight	30.000	119	14Eta Dra	2.7270	4700.0	60	37303	No
16	GOM_TRA_1PNPDE20090419_025324_000000262078_00175_37303_0312.N1	19-APR-2009 02:53:24	Twilight	26.000	19	50Alp Cyg	1.2460	10500.	52	37303	No
17	GOM_TRA_1PNPDE20090419_025757_000000282078_00175_37303_0313.N1	19-APR-2009 02:57:57	Twilight	27.500	92	53Eps Cyg	2.5000	4500.0	55	37303	No
18	GOM_TRA_1PNPDE20090419_030540_000000252078_00175_37303_0314.N1	19-APR-2009 03:05:40	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37303	No
19	GOM_TRA_1PNPDE20090419_031057_000000272078_00175_37303_0315.N1	19-APR-2009 03:10:57	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37303	No
20	GOM_TRA_1PNPDE20090419_033317_000000252078_00176_37304_0316.N1	19-APR-2009 03:33:17	Dark	24.500	147	Alp Ara	2.8770	26000.	49	37304	No
21	GOM_TRA_1PNPDE20090419_033520_000000412078_00176_37304_0317.N1	19-APR-2009 03:35:20	Straylight	40.500	25	35Lam Sco	1.6200	28000.	81	37304	No
22	GOM_TRA_1PNPDE20090419_033908_000000312078_00176_37304_0318.N1	19-APR-2009 03:39:08	Straylight	31.000	75	26Eps Sco	2.2910	4250.0	62	37304	No
23	GOM_TRA_1PNPDE20090419_034033_000000302078_00176_37304_0319.N1	19-APR-2009 03:40:33	Straylight	30.000	131	Gam Lup	2.8000	26000.	60	37304	No
24	GOM_TRA_1PNPDE20090419_035027_000000332078_00176_37304_0320.N1	19-APR-2009 03:50:27	Twilight	32.500	122	9Alp2Lib	2.7470	9700.0	65	37304	No
25	GOM_TRA_1PNPDE20090419_040215_000000312078_00176_37304_0321.N1	19-APR-2009 04:02:15	Twilight	30.500	111	8Eta Boo	2.6800	6000.0	61	37304	No
26	GOM_TRA_1PNPDE20090419_040952_000000342078_00176_37304_0322.N1	19-APR-2009 04:09:52	Twilight	33.500	180	27Gam Boo	3.0400	8000.0	67	37304	No
27	GOM_TRA_1PNPDE20090419_041936_000000302078_00176_37304_0323.N1	19-APR-2009 04:19:36	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37304	No
28	GOM_TRA_1PNPDE20090419_043400_000000262078_00176_37304_0466.N1	19-APR-2009 04:34:00	Twilight	25.500	19	50Alp Cyg	1.2460	10500.	51	37304	No
29	GOM_TRA_1PNPDE20090419_043833_000000272078_00176_37304_0467.N1	19-APR-2009 04:38:33	Twilight	27.000	92	53Eps Cyg	2.5000	4500.0	54	37304	No
30	GOM_TRA_1PNPDE20090419_044617_000000252078_00176_37304_0468.N1	19-APR-2009 04:46:17	Dark	24.500	61	8Eps Peg	2.1000	3900.0	49	37304	No
31	GOM_TRA_1PNPDE20090419_045134_000000272078_00176_37304_0469.N1	19-APR-2009 04:51:34	Dark	26.500	154	22Bet Aqr	2.8990	5700.0	53	37304	No
32	GOM_TRA_1PNPDE20090419_051354_000000312078_00177_37305_0470.N1	19-APR-2009 05:13:54	Dark	31.000	147	Alp Ara	2.8770	26000.	62	37305	No
33	GOM_TRA_1PNPDE20090419_051558_000000402078_00177_37305_0471.N1	19-APR-2009 05:15:58	Straylight	39.500	25	35Lam Sco	1.6200	28000.	79	37305	No
34	GOM_TRA_1PNPDE20090419_051945_000000312078_00177_37305_0472.N1	19-APR-2009 05:19:45	Straylight	31.000	75	26Eps Sco	2.2910	4250.0	62	37305	No
35	GOM_TRA_1PNPDE20090419_052110_000000292078_00177_37305_0473.N1	19-APR-2009 05:21:10	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37305	No
36	GOM_TRA_1PNPDE20090419_053103_000000322078_00177_37305_0474.N1	19-APR-2009 05:31:03	Twilight	32.000	122	9Alp2Lib	2.7470	9700.0	64	37305	No
37	GOM_TRA_1PNPDE20090419_054251_000000312078_00177_37305_0475.N1	19-APR-2009 05:42:51	Twilight	30.500	111	8Eta Boo	2.6800	6000.0	61	37305	No
38	GOM_TRA_1PNPDE20090419_055028_000000332078_00177_37305_0476.N1	19-APR-2009 05:50:28	Twilight	33.000	180	27Gam Boo	3.0400	8000.0	66	37305	No
39	GOM_TRA_1PNPDE20090419_060011_000000302078_00177_37305_0477.N1	19-APR-2009 06:00:11	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37305	No
40	GOM_TRA_1PNPDE20090419_202517_000000372078_00186_37314_0903.N1	19-APR-2009 20:25:17	Straylight	36.500	75	26Eps Sco	2.2910	4250.0	73	37314	No
41	GOM_TRA_1PNPDE20090419_202638_000000282078_00186_37314_0904.N1	19-APR-2009 20:26:38	Straylight	27.500	131	Gam Lup	2.8000	26000.	55	37314	No
42	GOM_TRA_1PNPDE20090419_203627_000000302078_00186_37314_0905.N1	19-APR-2009 20:36:27	Twilight	30.000	122	9Alp2Lib	2.7470	9700.0	60	37314	No
43	GOM_TRA_1PNPDE20090419_204811_000000282078_00186_37314_0906.N1	19-APR-2009 20:48:11	Twilight	28.000	111	8Eta Boo	2.6800	6000.0	56	37314	No
44	GOM_TRA_1PNPDE20090419_205544_000000322078_00186_37314_0907.N1	19-APR-2009 20:55:44	Twilight	31.500	180	27Gam Boo	3.0400	8000.0	63	37314	No
45	GOM_TRA_1PNPDE20090419_210528_000000292078_00186_37314_0908.N1	19-APR-2009 21:05:28	Twilight	28.500	119	14Eta Dra	2.7270	4700.0	57	37314	No
46	GOM_TRA_1PNPDE20090419_212433_000000252078_00186_37314_0909.N1	19-APR-2009 21:24:33	Twilight	25.000	92	53Eps Cyg	2.5000	4500.0	50	37314	No
47	GOM_TRA_1PNPDE20090419_213222_000000232078_00186_37314_0910.N1	19-APR-2009 21:32:22	Dark	22.500	61	8Eps Peg	2.1000	3900.0	45	37314	No
48	GOM_TRA_1PNPDE20090419_213741_000000252078_00186_37314_1061.N1	19-APR-2009 21:37:41	Dark	25.000	154	22Bet Aqr	2.8990	5700.0	50	37314	No
49	GOM_TRA_1PNPDE20090419_220002_000000292078_00187_37315_1062.N1	19-APR-2009 22:00:02	Dark	29.000	147	Alp Ara	2.8770	26000.	58	37315	No

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



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

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

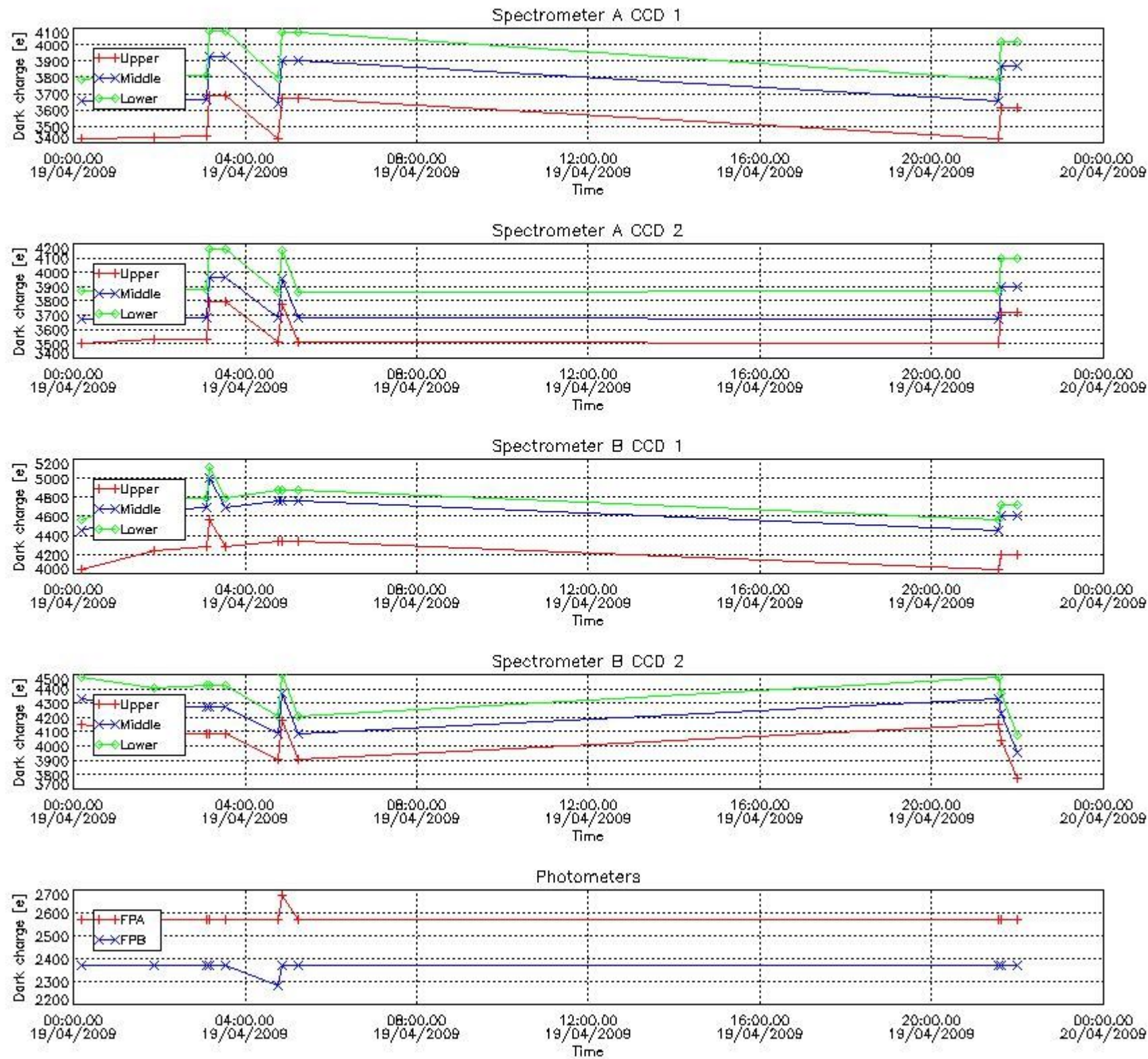
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090419_001203_000000312078_00174_37302_9994.N1	DC map used
GOM_TRA_1PNPDE20090419_001406_000000392078_00174_37302_9995.N1	DC map used
GOM_TRA_1PNPDE20090419_001754_000000292078_00174_37302_9996.N1	DC map used
GOM_TRA_1PNPDE20090419_001920_000000292078_00174_37302_9997.N1	DC map used
GOM_TRA_1PNPDE20090419_002914_000000322078_00174_37302_9998.N1	DC map used
GOM_TRA_1PNPDE20090419_004104_000000302078_00174_37302_9999.N1	DC map used
GOM_TRA_1PNPDE20090419_202517_000000372078_00186_37314_0903.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090419_202638_000000282078_00186_37314_0904.N1	DC map used
GOM_TRA_1PNPDE20090419_203627_000000302078_00186_37314_0905.N1	DC map used
GOM_TRA_1PNPDE20090419_204811_000000282078_00186_37314_0906.N1	DC map used
GOM_TRA_1PNPDE20090419_205544_000000322078_00186_37314_0907.N1	DC map used
GOM_TRA_1PNPDE20090419_210528_000000292078_00186_37314_0908.N1	DC map used
GOM_TRA_1PNPDE20090419_212433_000000252078_00186_37314_0909.N1	DC map used
GOM_TRA_1PNPDE20090419_213222_000000232078_00186_37314_0910.N1	DC map used



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



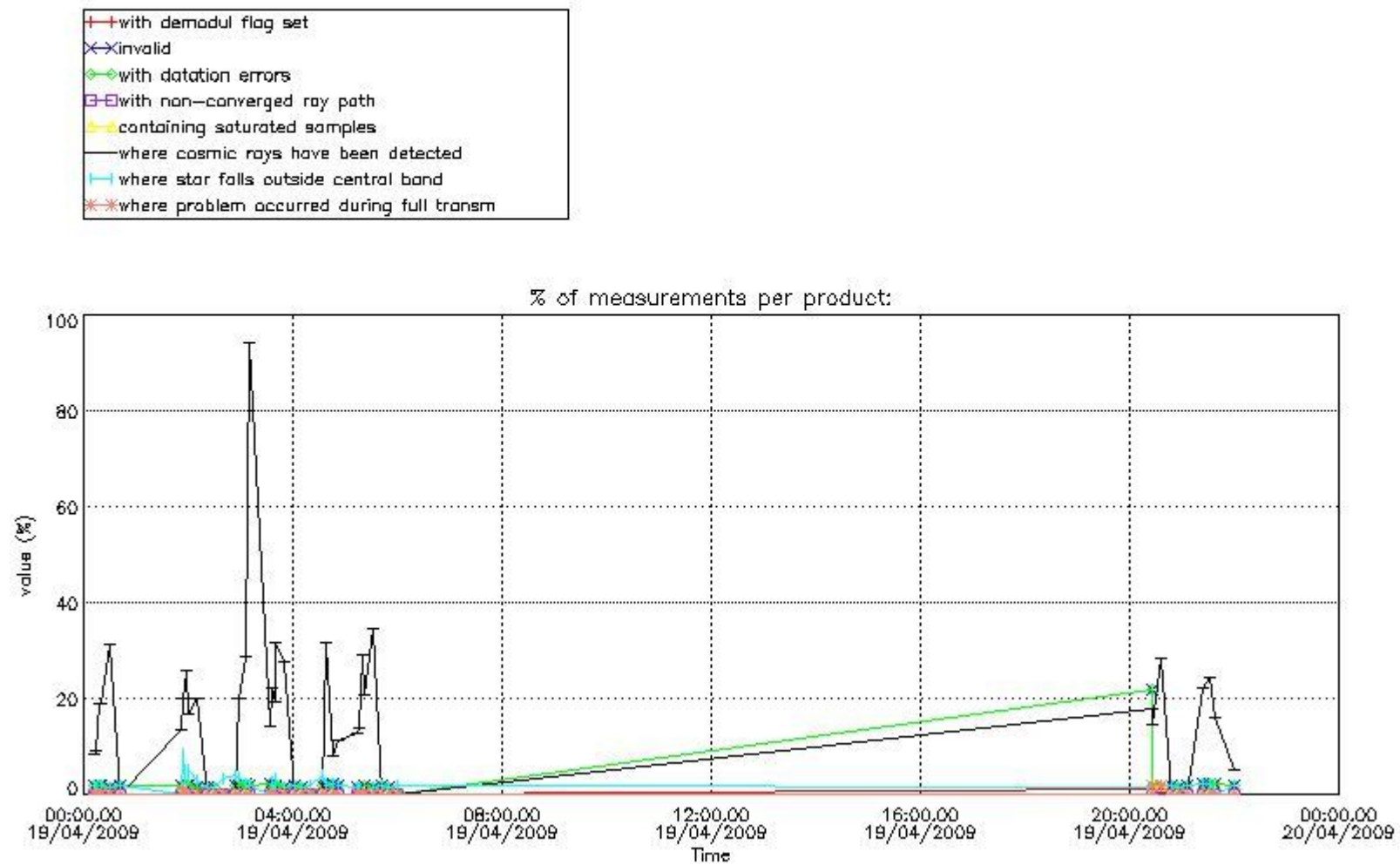
5. Demodulation flag and quality information monitoring

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

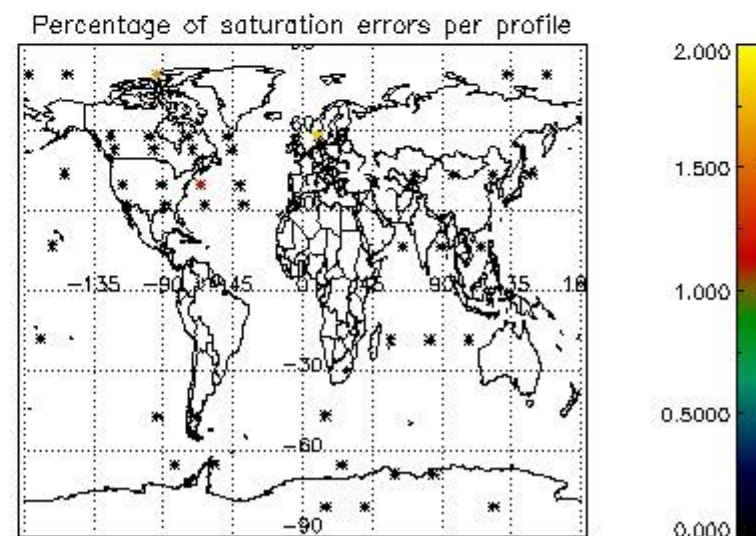
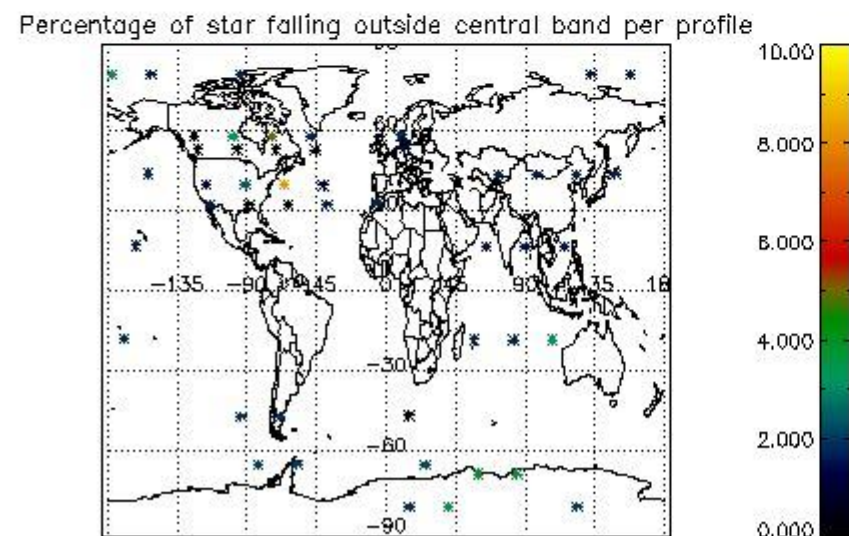
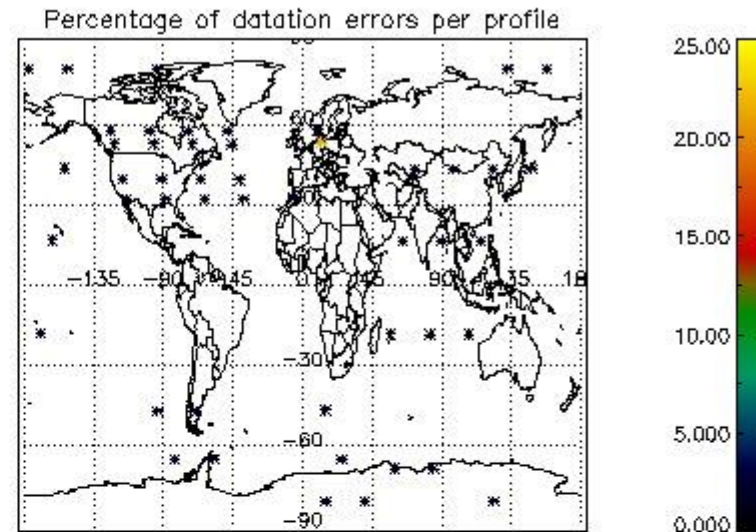
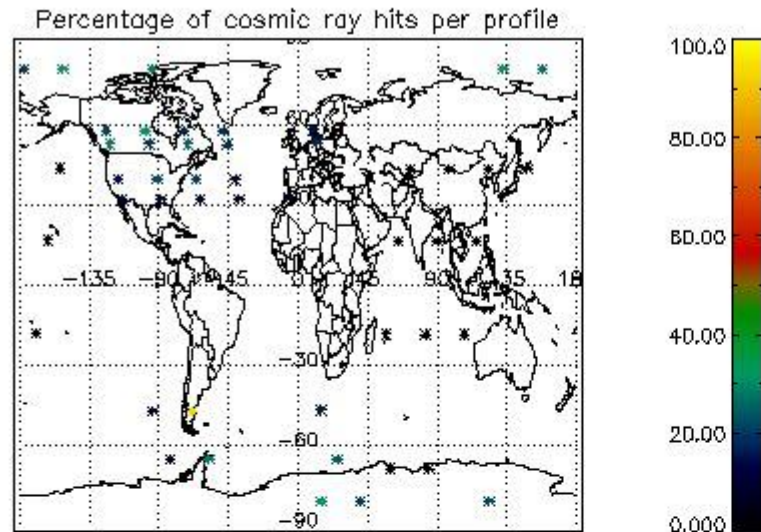
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.4167 %
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)

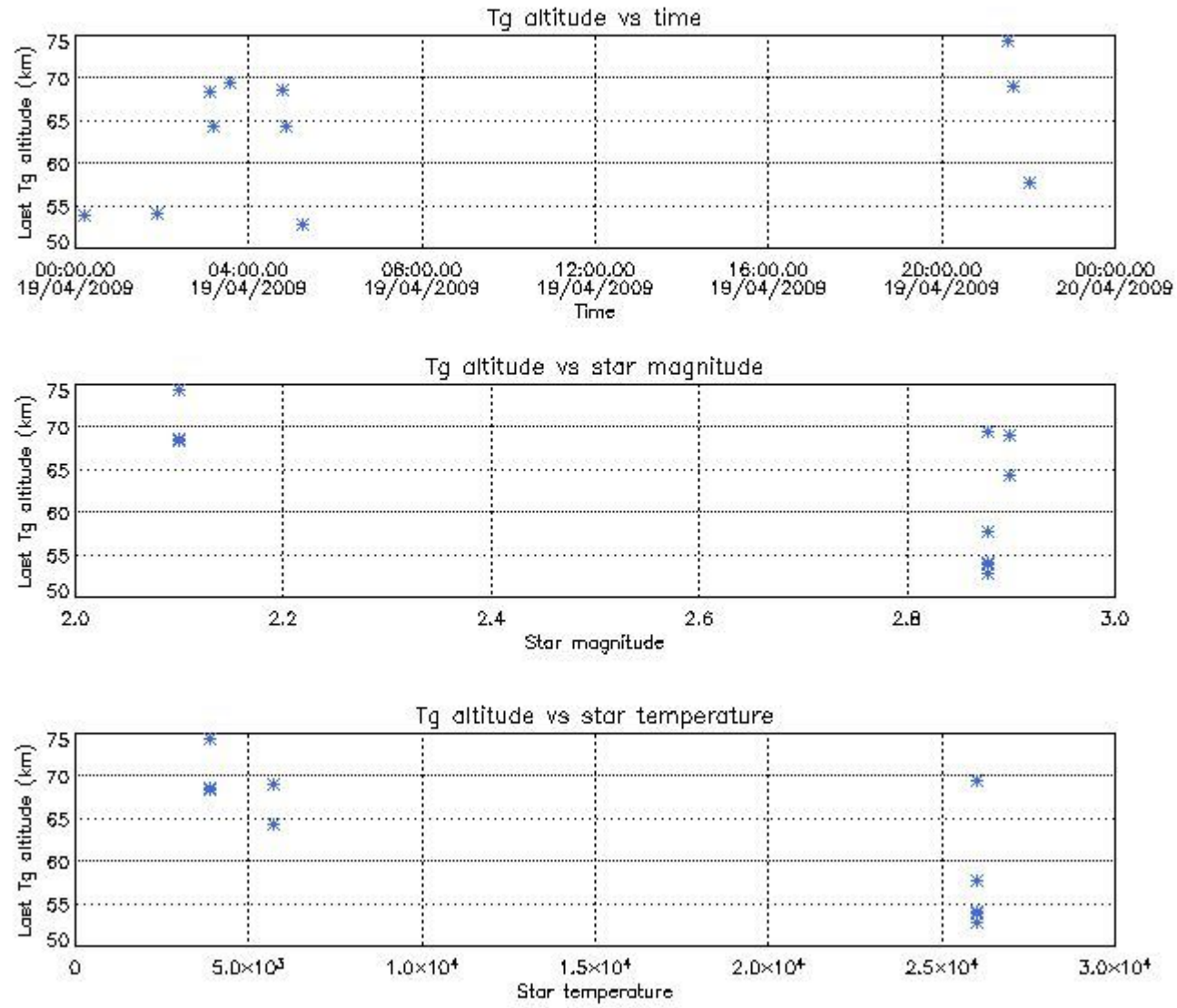
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	63.334	NaN	NaN
St. deviation:	7.4814	NaN	NaN
Maximum:	74.257	NaN	NaN
Minimum:	52.848	NaN	NaN
Number of data:	11.000	NaN	NaN

### 6.2 Plot for DARK limb products



## Tangent altitude at which the star is lost



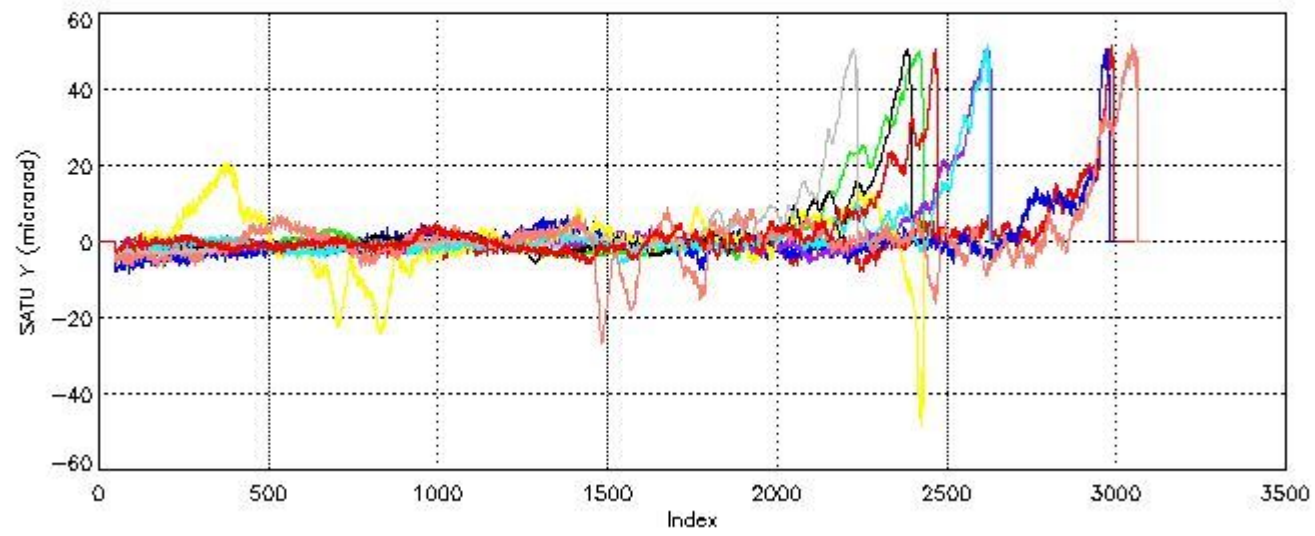
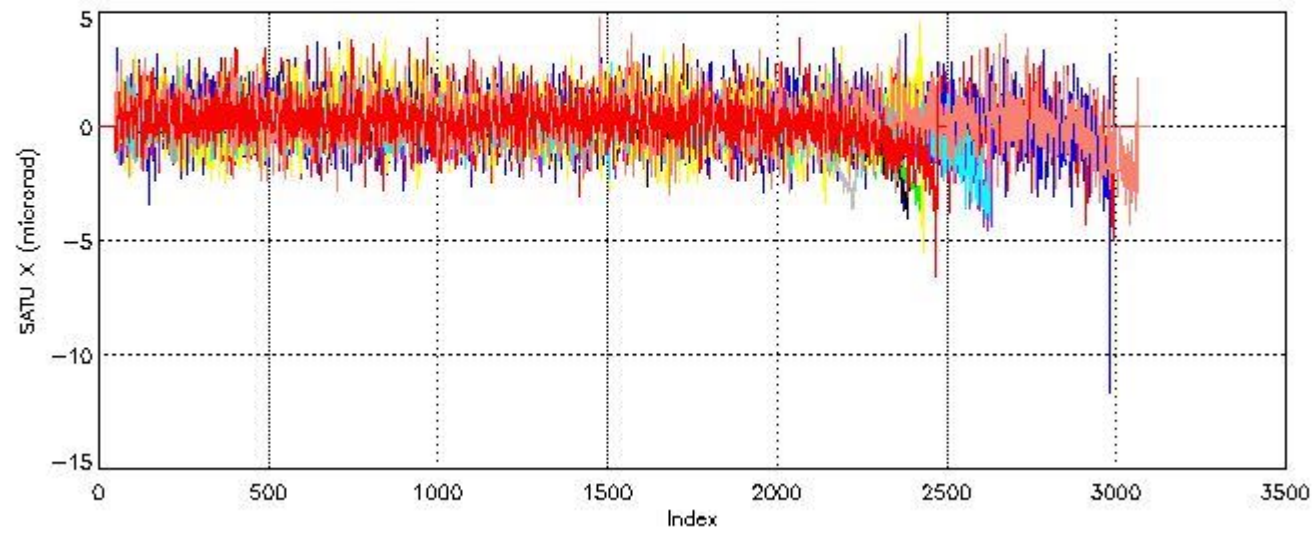
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.29600	-1.0856	NaN	NaN
St. deviation:	0.74783	2.1809	NaN	NaN
Maximum:	3.9000	20.600	NaN	NaN
Minimum:	-3.4000	-24.400	NaN	NaN

Number of data:	11750.	11750.	NaN	NaN
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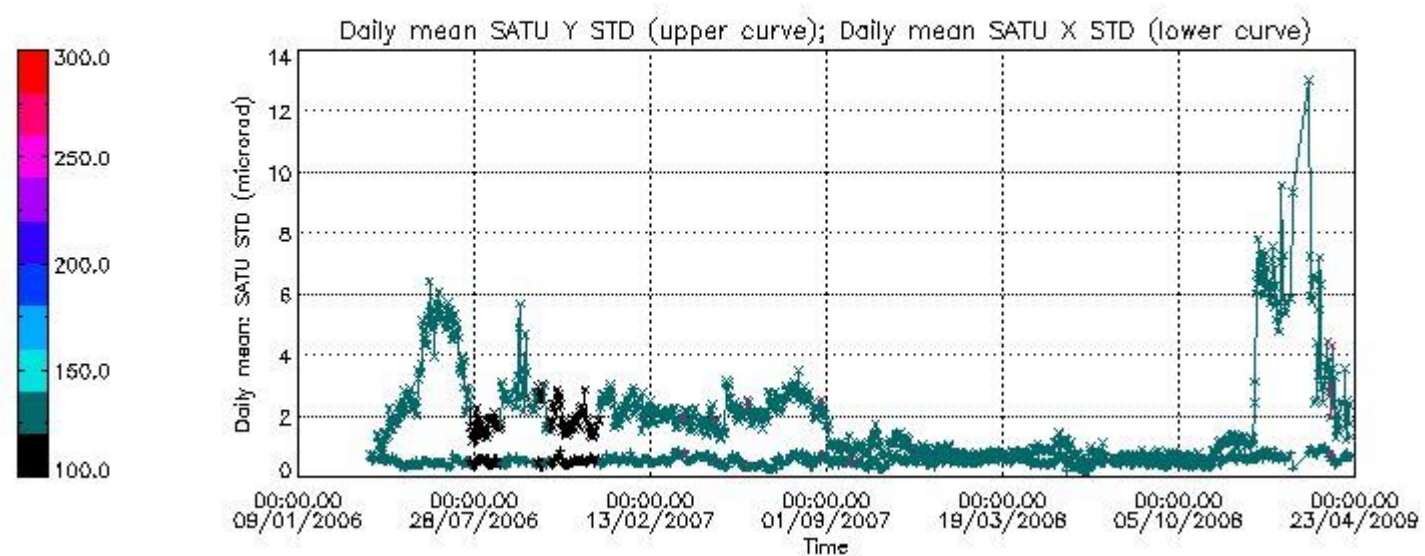
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

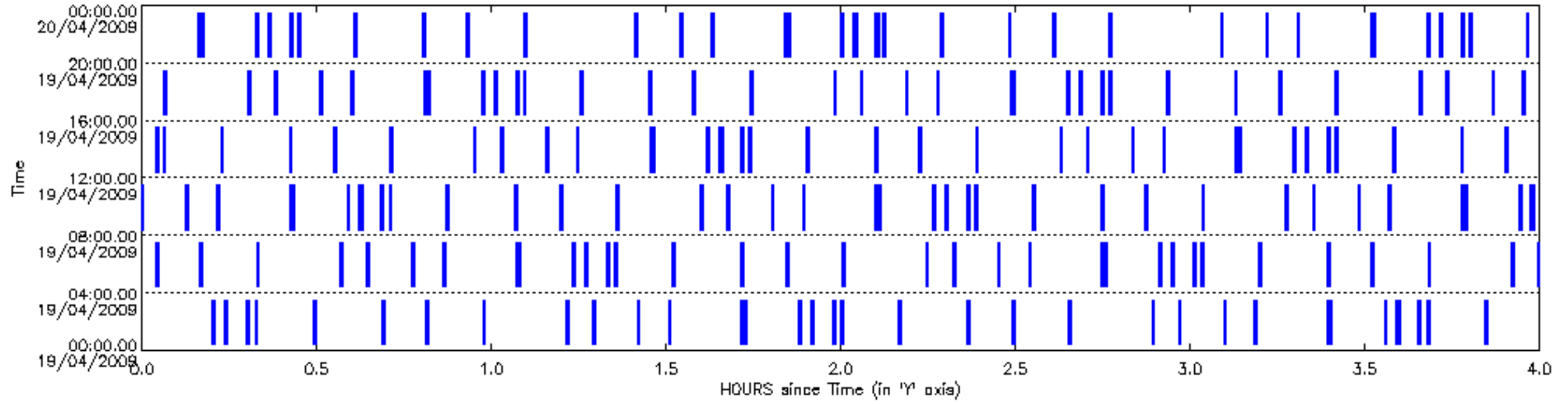
Lower curve: STD of SATU X axis



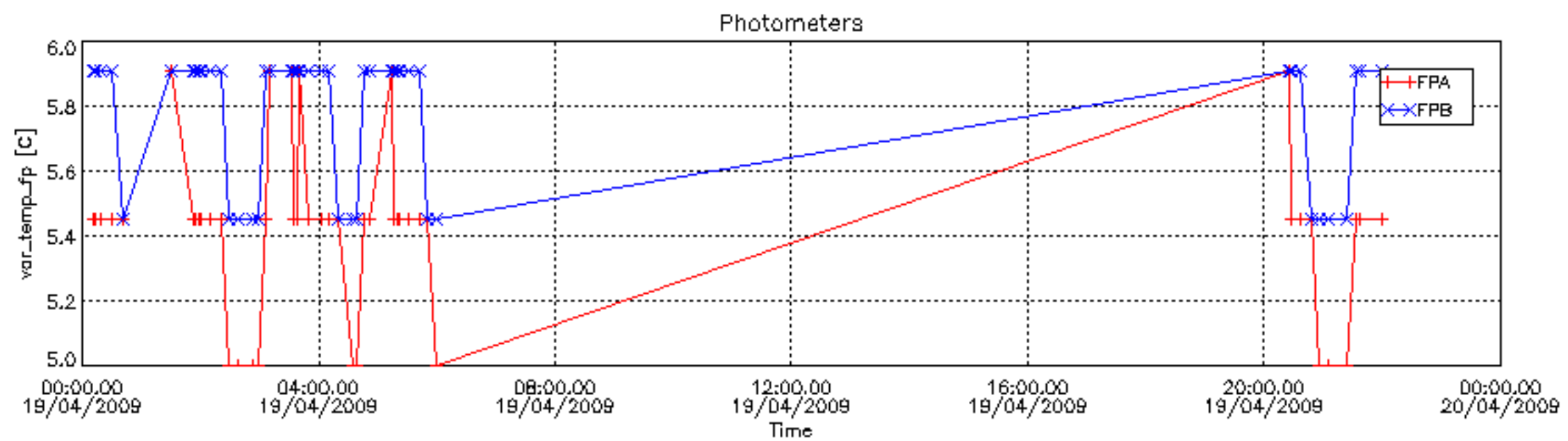
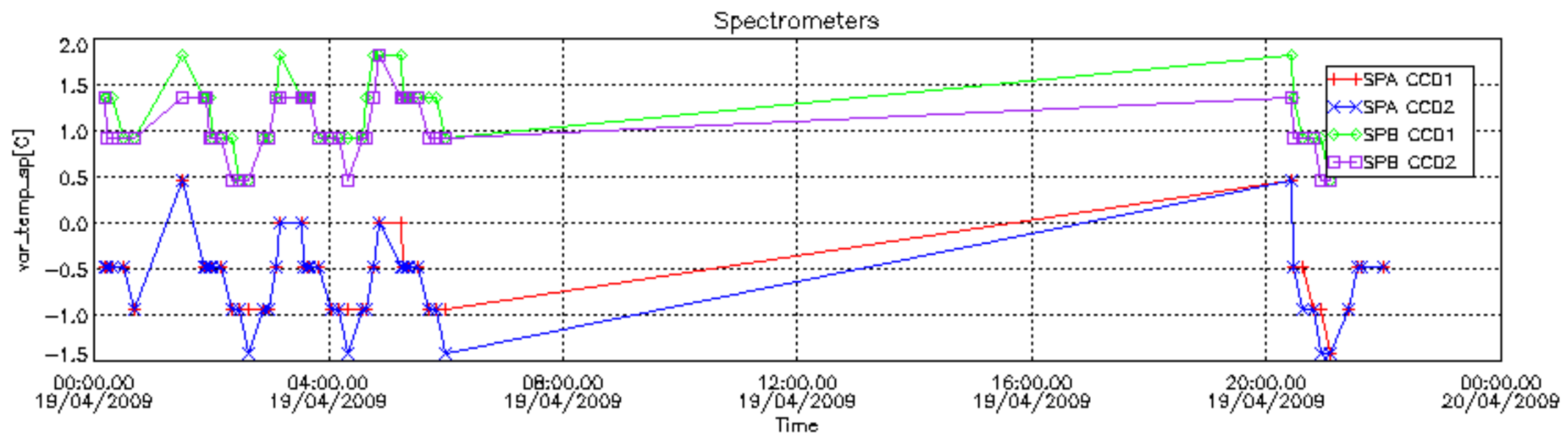
### 8. Auxiliary Data Files used for the production reported in section 2.4

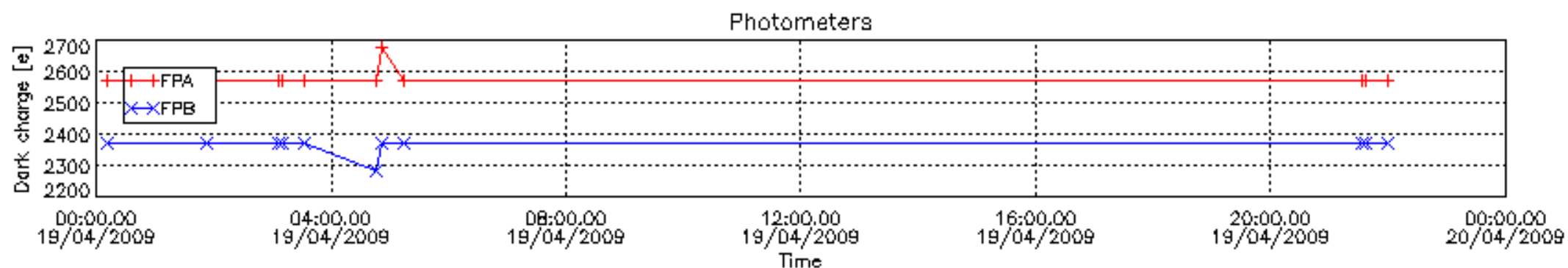
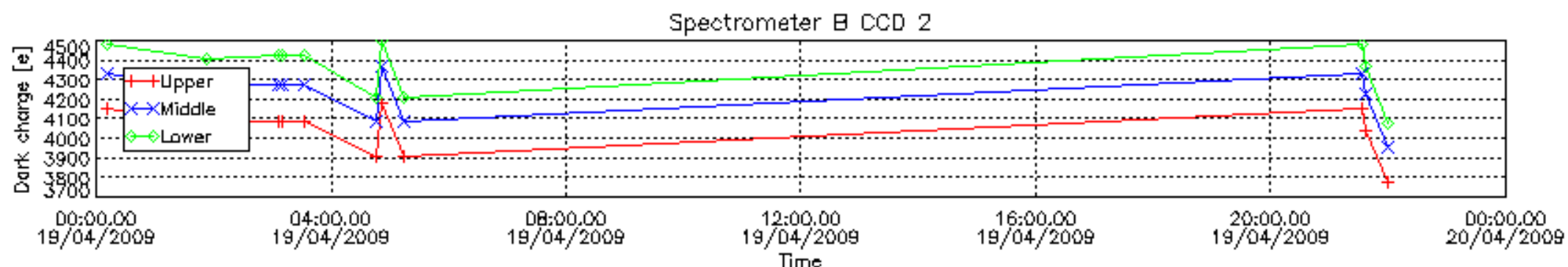
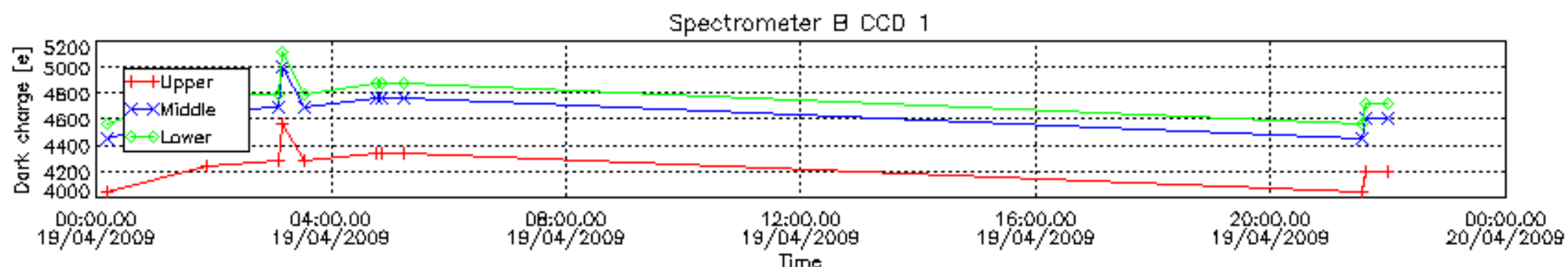
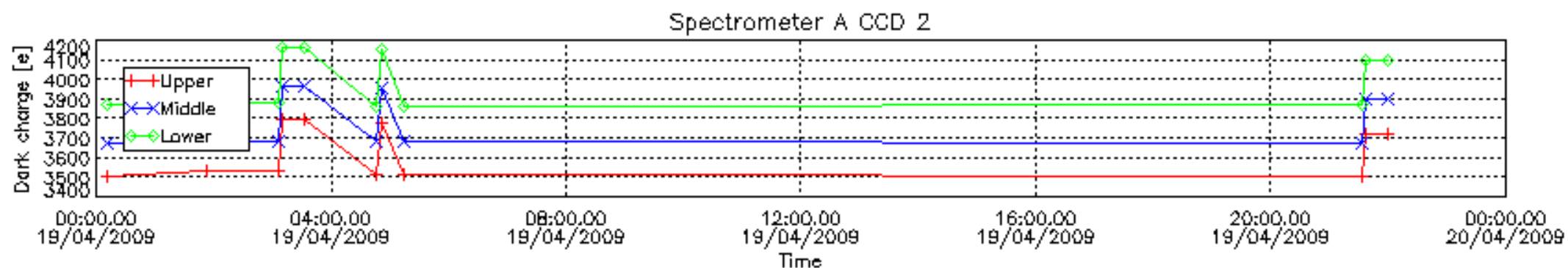
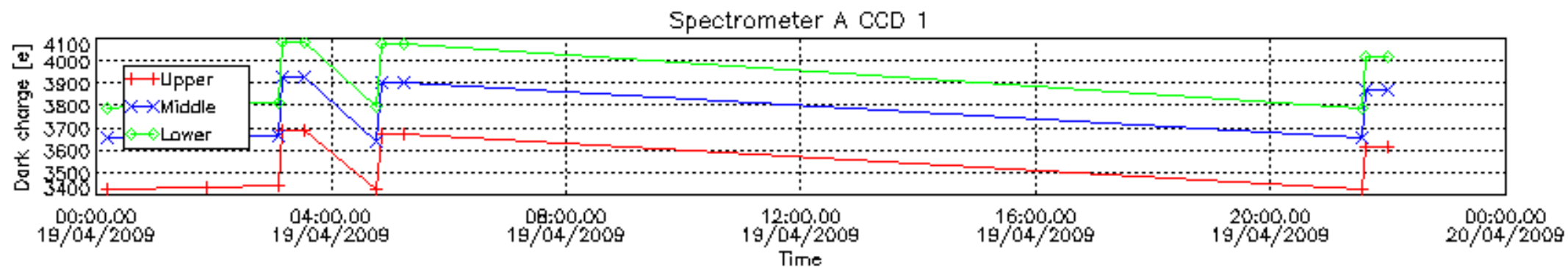
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-APR-2009 00:12:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	19-APR-2009 00:12:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-APR-2009 00:12:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-APR-2009 00:12:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-APR-2009 00:12:03
ECMWF_FILE	AUX_ECF_AXNECM20090418_064113_20090418_210000_20090419_090000	1	19-APR-2009 00:12:03
ECMWF_FILE	AUX_ECF_AXNECM20090418_194113_20090419_030000_20090419_150000	28	19-APR-2009 04:34:00
ECMWF_FILE	AUX_ECF_AXNECM20090419_064112_20090419_150000_20090420_030000	40	19-APR-2009 20:25:17
ECMWF_FILE	AUX_ECF_AXNECM20090419_064113_20090419_210000_20090420_090000	48	19-APR-2009 21:37:41
OPTIONAL_ECMWF_FILE	MISSING	1	19-APR-2009 00:12:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090418_220512_000060572078_00172_37300_7778.N1	1	19-APR-2009 00:12:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090418_234609_000057382078_00173_37301_7779.N1	7	19-APR-2009 01:30:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090419_012706_000044632078_00174_37302_7780.N1	16	19-APR-2009 02:53:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090419_024648_000054192078_00175_37303_7781.N1	28	19-APR-2009 04:34:00
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20090419_010112_20090418_190113_20090428_202728	40	19-APR-2009 20:25:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090419_202408_000038262078_00186_37314_7783.N1	48	19-APR-2009 21:37:41





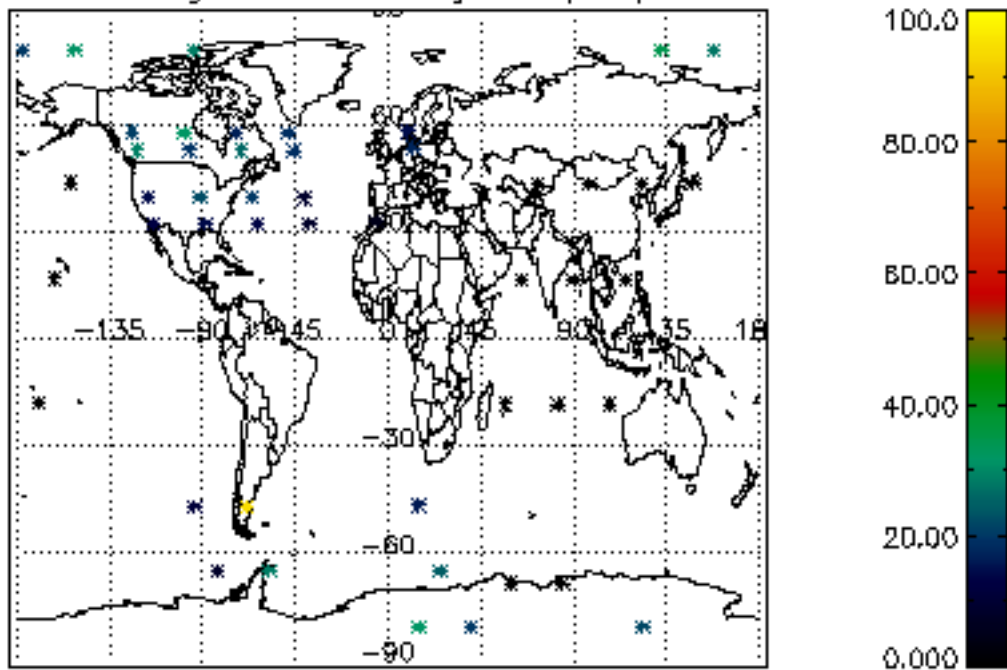




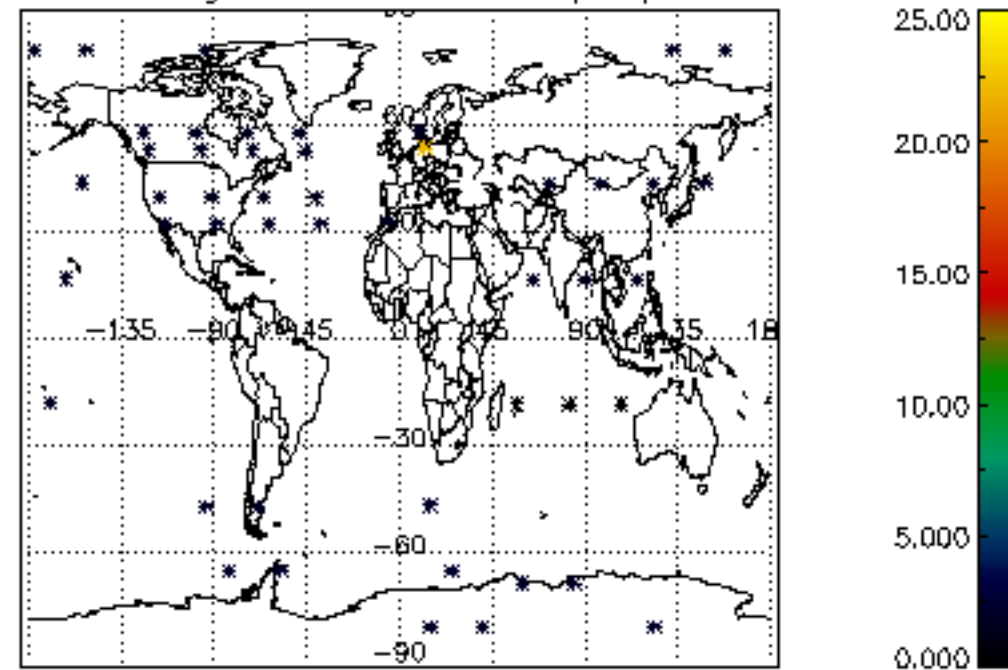




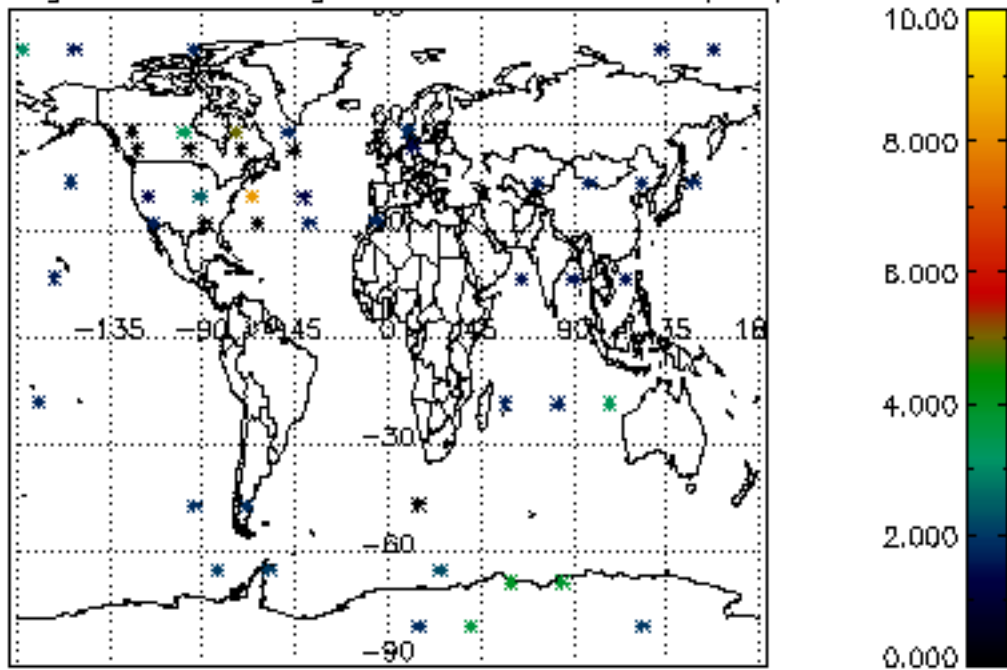
Percentage of cosmic ray hits per profile



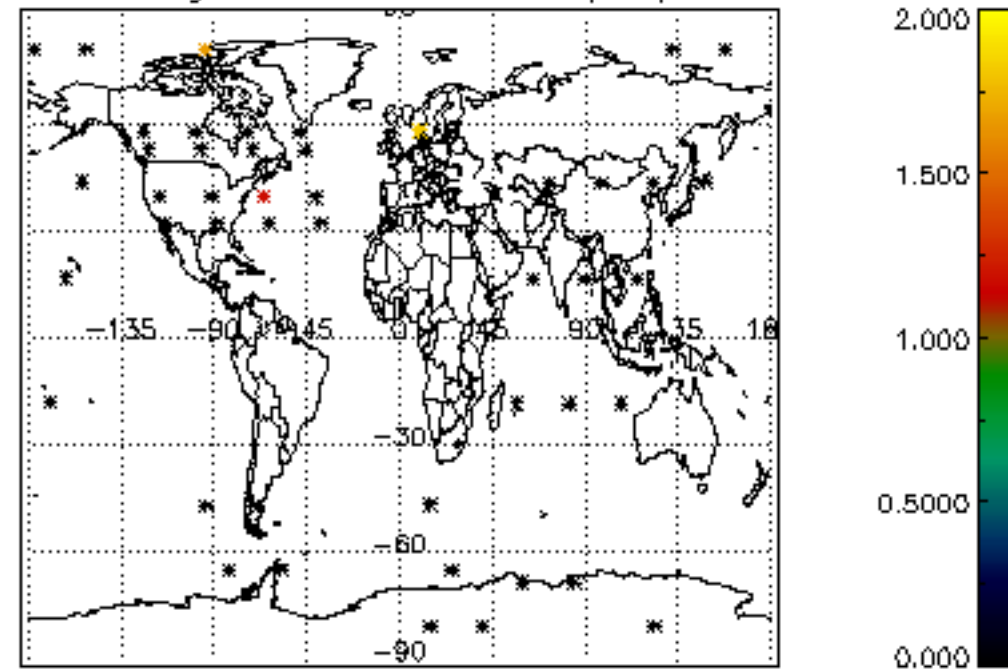
Percentage of datation errors per profile



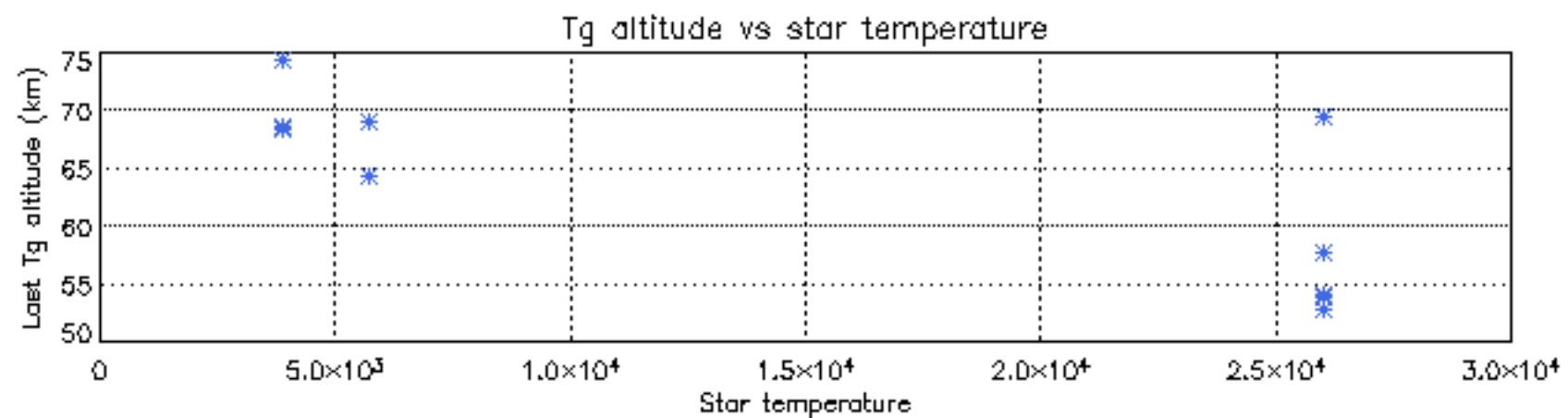
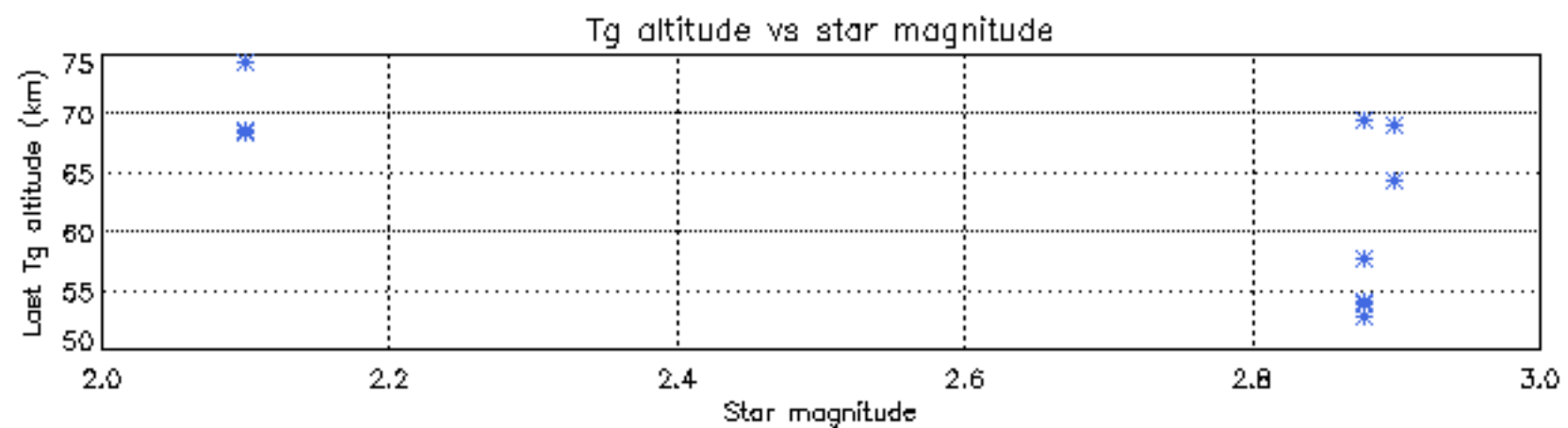
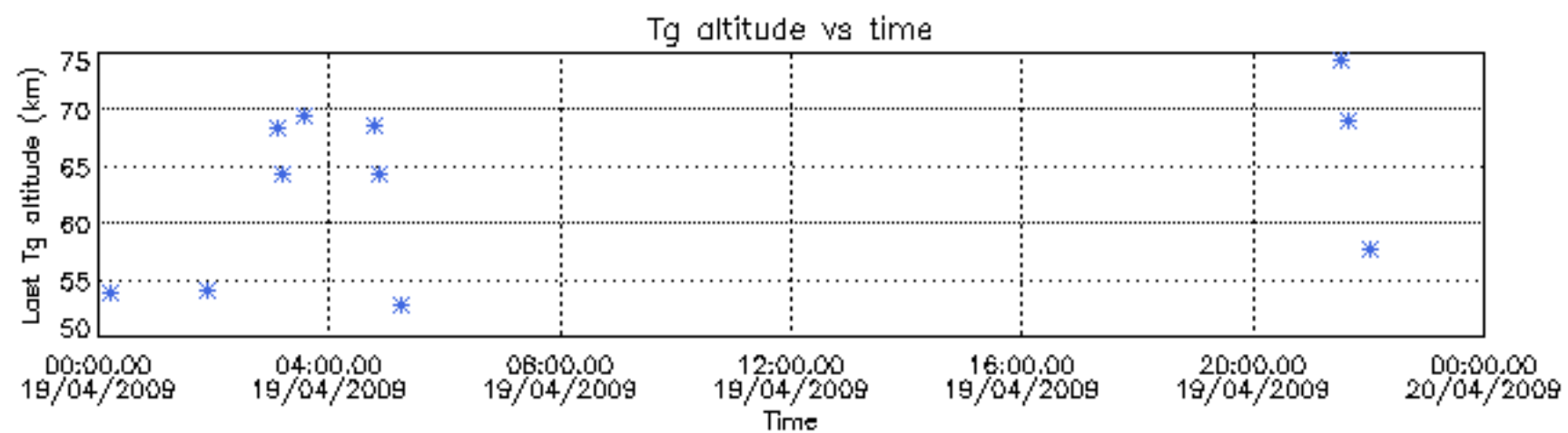
Percentage of star falling outside central band per profile

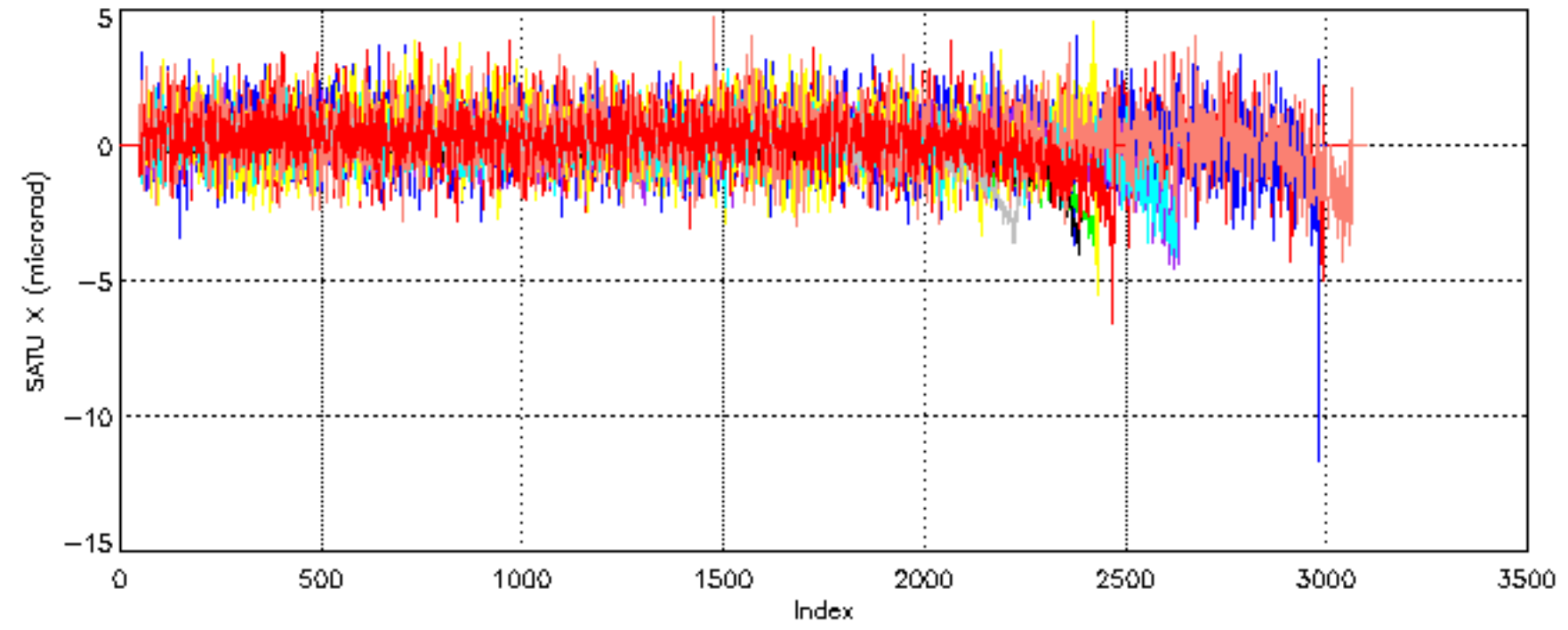


Percentage of saturation errors per profile

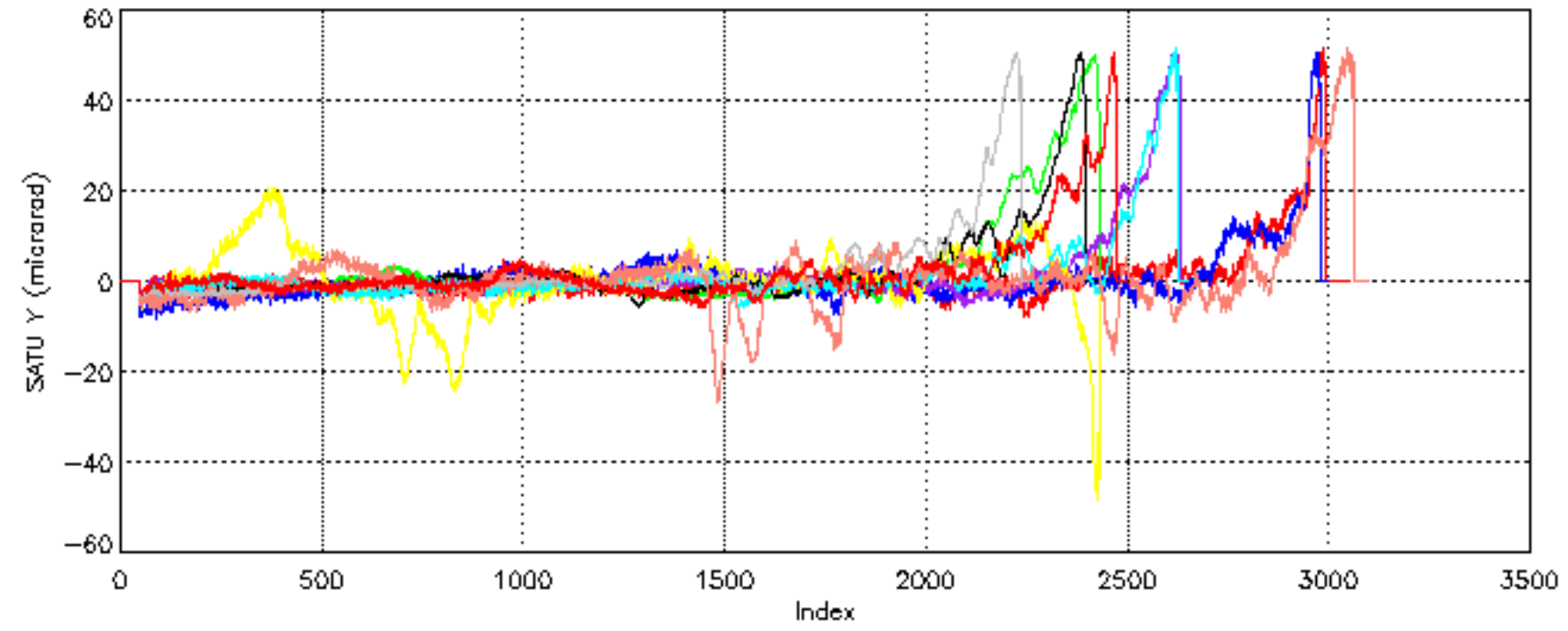


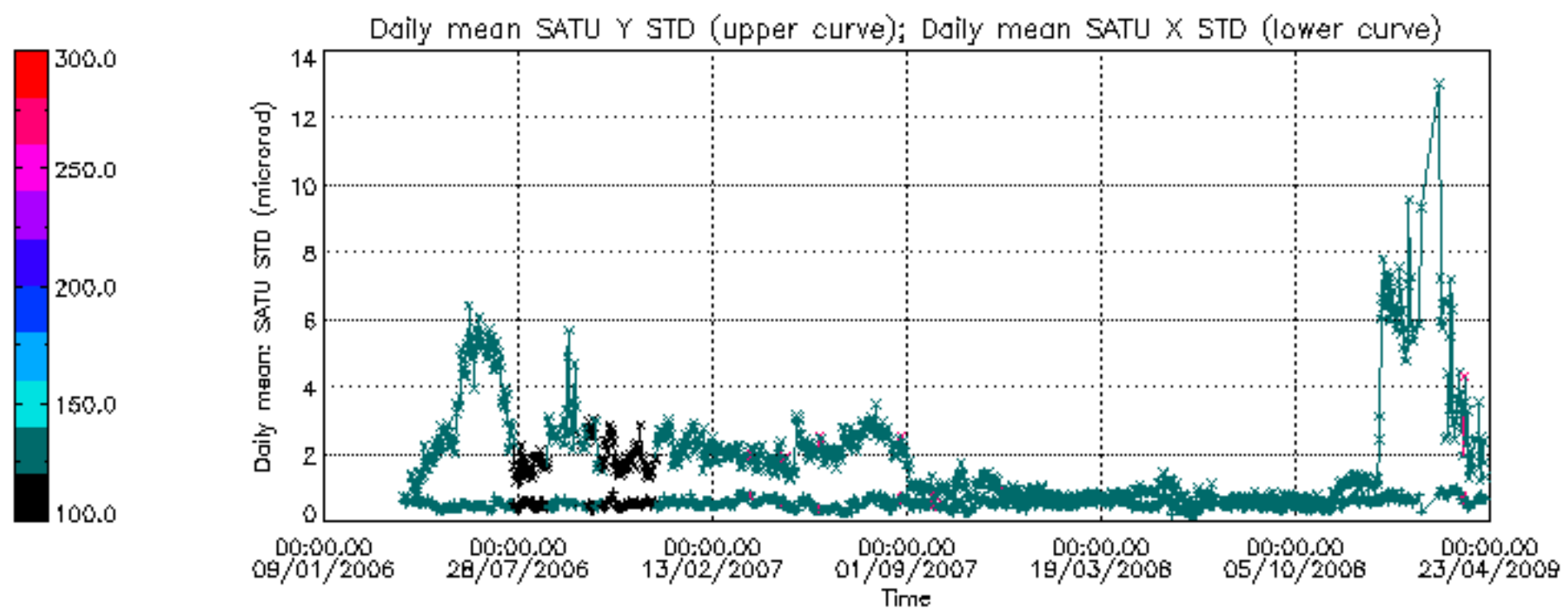
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090401\_195936\_000036412077\_00429\_37056\_7518.N1

1; 1432.9; 01-APR-2009 19:59:36; Dark ; 51.5; 169; 46Gam Hya ; 2.99; 4700;occ; 103; 0;37056  
 2; 1688.1; 01-APR-2009 20:03:51; Dark ; 67.0; 15; 67Alp Vir ; 0.98; 28000;occ; 134; 0;37056  
 3; 1882.0; 01-APR-2009 20:07:05; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;37056  
 4; 2156.2; 01-APR-2009 20:11:39; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37056  
 5; 2671.2; 01-APR-2009 20:20:14; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;37056  
 6; 2954.1; 01-APR-2009 20:24:57; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;37056  
 7; 3501.5; 01-APR-2009 20:34:04; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37056  
 8; 4197.6; 01-APR-2009 20:45:40; Bright; 44.0; 144; 18Del Cyg ; 2.86; 11000;occ; 88; 0;37056  
 9; 4313.1; 01-APR-2009 20:47:36; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;37056  
 10; 4435.9; 01-APR-2009 20:49:39; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37056  
 11; 5051.5; 01-APR-2009 20:59:54; Dark ; 23.0; 11; 53Alp Aql ; 0.76; 8000;occ; 46; 0;37056

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090401\_205954\_000063352077\_00429\_37056\_7519.N1

1; -984.4; 01-APR-2009 20:59:54; Dark ; 72.0; 11; 53Alp Aql ; 0.76; 8000;occ; 144; 0;37056  
 2; -745.7; 01-APR-2009 21:03:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37056  
 3; -259.8; 01-APR-2009 21:11:59; Dark ; 57.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 114; 0;37056  
 4; -127.9; 01-APR-2009 21:14:11; Dark ; 57.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 114; 0;37056  
 5; 81.9; 01-APR-2009 21:17:40; Dark ; 70.0; 116; 19Del Sgr ; 2.70; 4100;occ; 140; 0;37057  
 6; 339.0; 01-APR-2009 21:21:58; Dark ; 56.5; 25; 35Lam Sco ; 1.62; 28000;occ; 113; 0;37057  
 7; 798.8; 01-APR-2009 21:29:37; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;37057  
 8; 944.6; 01-APR-2009 21:32:03; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;37057  
 9; 1107.1; 01-APR-2009 21:34:46; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37057  
 10; 1433.1; 01-APR-2009 21:40:12; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37057  
 11; 1688.1; 01-APR-2009 21:44:27; Dark ; 66.0; 15; 67Alp Vir ; 0.98; 28000;occ; 132; 0;37057  
 12; 1881.8; 01-APR-2009 21:47:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37057  
 13; 2155.9; 01-APR-2009 21:52:14; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37057  
 14; 2670.9; 01-APR-2009 22:00:49; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37057  
 15; 2953.6; 01-APR-2009 22:05:32; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37057  
 16; 3500.7; 01-APR-2009 22:14:39; Bright; 62.5; 119; 14Eta Dra ; 2.73; 4700;occ; 125; 0;37057  
 17; 4197.4; 01-APR-2009 22:26:16; Bright; 68.0; 144; 18Del Cyg ; 2.86; 11000;occ; 136; 0;37057  
 18; 4312.9; 01-APR-2009 22:28:11; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;37057  
 19; 4435.9; 01-APR-2009 22:30:14; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37057  
 20; 5052.5; 01-APR-2009 22:40:31; Dark ; 70.5; 11; 53Alp Aql ; 0.76; 8000;occ; 141; 0;37057  
 21; 5291.1; 01-APR-2009 22:44:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37057

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090401\_224449\_000060762077\_00430\_37057\_7520.N1

1; -725.3; 01-APR-2009 22:44:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 39;37057  
 2; -126.4; 01-APR-2009 22:54:48; Dark ; 54.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 109; 0;37057  
 3; 83.4; 01-APR-2009 22:58:18; Dark ; 61.5; 116; 19Del Sgr ; 2.70; 4100;occ; 123; 0;37058  
 4; 340.5; 01-APR-2009 23:02:35; Dark ; 58.5; 25; 35Lam Sco ; 1.62; 28000;occ; 117; 0;37058  
 5; 799.7; 01-APR-2009 23:10:14; Dark ; 52.0; 131; Gam Lup ; 2.80; 26000;occ; 104; 0;37058  
 6; 945.1; 01-APR-2009 23:12:40; Dark ; 48.5; 81; Eta Cen ; 2.36; 28000;occ; 97; 0;37058  
 7; 1107.5; 01-APR-2009 23:15:22; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37058  
 8; 1433.4; 01-APR-2009 23:20:48; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;37058  
 9; 1688.2; 01-APR-2009 23:25:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37058  
 10; 1881.6; 01-APR-2009 23:28:16; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;37058  
 11; 2155.3; 01-APR-2009 23:32:50; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37058  
 12; 2670.5; 01-APR-2009 23:41:25; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37058  
 13; 2953.3; 01-APR-2009 23:46:08; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37058  
 14; 3500.1; 01-APR-2009 23:55:14; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37058  
 15; 4197.4; 02-APR-2009 00:06:52; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;37058  
 16; 4312.8; 02-APR-2009 00:08:47; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37058  
 17; 4436.1; 02-APR-2009 00:10:50; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37058  
 18; 5053.0; 02-APR-2009 00:21:07; Dark ; 68.0; 11; 53Alp Aql ; 0.76; 8000;occ; 136; 0;37058  
 19; 5292.0; 02-APR-2009 00:25:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37058

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_140715\_00000062077\_00425\_37052\_3560.N1

1; -1600.1; 01-APR-2009 14:07:15; Bright; 6.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 13; 0;37052

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_150203\_000055032077\_00426\_37053\_3561.N1

1; 1688.5; 01-APR-2009 15:02:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37053  
 2; 1881.9; 01-APR-2009 15:05:17; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;37053  
 3; 7141.4; 01-APR-2009 16:32:56; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37053

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_163823\_000030422077\_00427\_37054\_3562.N1

1; 1432.5; 01-APR-2009 16:38:23; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37054  
 2; 2954.7; 01-APR-2009 17:03:45; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;37054  
 3; 4312.8; 01-APR-2009 17:26:23; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37054  
 4; 4435.5; 01-APR-2009 17:28:26; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;37054

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_184421\_000000172077\_00428\_37055\_3563.N1

1; 2954.4; 01-APR-2009 18:44:21; Bright; 18.0; 32; 77Eps UMa ; 1.76; 11000;occ; 36; 0;37055

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090402\_003313\_000053762077\_00431\_37058\_7521.N1



1; -257.2; 02-APR-2009 00:33:13; Dark ; 60.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 121; 0;37058  
 2; -125.0; 02-APR-2009 00:35:25; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37058  
 3; 341.6; 02-APR-2009 00:43:12; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;37059  
 4; 800.4; 02-APR-2009 00:50:51; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;37059  
 5; 945.7; 02-APR-2009 00:53:16; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;37059  
 6; 1107.7; 02-APR-2009 00:55:58; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;37059  
 7; 1433.6; 02-APR-2009 01:01:24; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37059  
 8; 1688.1; 02-APR-2009 01:05:38; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37059  
 9; 1881.4; 02-APR-2009 01:08:52; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;37059  
 10; 2154.8; 02-APR-2009 01:13:25; Bright; 49.0; 138; 47Eps Vir ; 2.83; 4700;occ; 98; 0;37059  
 11; 2669.6; 02-APR-2009 01:22:00; Bright; 44.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 88; 0;37059  
 12; 2952.7; 02-APR-2009 01:26:43; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;37059  
 13; 3499.2; 02-APR-2009 01:35:49; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;37059  
 14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059  
 15; 4312.9; 02-APR-2009 01:49:23; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;37059  
 16; 4436.0; 02-APR-2009 01:51:26; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37059  
 17; 5054.0; 02-APR-2009 02:01:44; Dark ; 65.5; 11; 53Alp Aql ; 0.76; 8000;occ; 131; 0;37059

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090402\_020248\_000044632077\_00432\_37059\_7522.N1

1; -917.9; 02-APR-2009 02:02:48; Dark ; 66.0; 11; 53Alp Aql ; 0.76; 8000;occ; 132; 128;37059  
 2; -742.9; 02-APR-2009 02:05:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37059  
 3; -255.9; 02-APR-2009 02:13:50; Dark ; 57.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 115; 0;37059  
 4; -123.9; 02-APR-2009 02:16:02; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37059  
 5; 89.5; 02-APR-2009 02:19:36; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;37060  
 6; 343.0; 02-APR-2009 02:23:49; Dark ; 59.0; 25; 35Lam Sco ; 1.62; 28000;occ; 118; 0;37060  
 7; 801.5; 02-APR-2009 02:31:28; Dark ; 52.5; 131; Gam Lup ; 2.80; 26000;occ; 105; 0;37060  
 8; 946.7; 02-APR-2009 02:33:53; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;37060  
 9; 1108.6; 02-APR-2009 02:36:35; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37060  
 10; 1433.7; 02-APR-2009 02:42:00; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37060  
 11; 1688.2; 02-APR-2009 02:46:14; Dark ; 66.5; 15; 67Alp Vir ; 0.98; 28000;occ; 133; 0;37060  
 12; 1881.5; 02-APR-2009 02:49:28; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37060  
 13; 2154.6; 02-APR-2009 02:54:01; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37060  
 14; 2669.4; 02-APR-2009 03:02:36; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37060  
 15; 2952.7; 02-APR-2009 03:07:19; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;37060  
 16; 3498.8; 02-APR-2009 03:16:25; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;37060

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090402\_032803\_000054072077\_00433\_37060\_7523.N1

1; -1838.8; 02-APR-2009 03:28:03; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;37060  
 2; -1723.0; 02-APR-2009 03:29:59; Bright; 45.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 91; 0;37060  
 3; -1599.6; 02-APR-2009 03:32:02; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;37060  
 4; -981.1; 02-APR-2009 03:42:21; Dark ; 69.0; 11; 53Alp Aql ; 0.76; 8000;occ; 138; 0;37060  
 5; -741.9; 02-APR-2009 03:46:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37060  
 6; -253.8; 02-APR-2009 03:54:28; Dark ; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;37060  
 7; -122.3; 02-APR-2009 03:56:40; Dark ; 55.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 110; 0;37060  
 8; 91.1; 02-APR-2009 04:00:13; Dark ; 56.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 113; 0;37061  
 9; 344.5; 02-APR-2009 04:04:27; Dark ; 64.5; 25; 35Lam Sco ; 1.62; 28000;occ; 129; 0;37061  
 10; 801.9; 02-APR-2009 04:12:04; Dark ; 50.0; 131; Gam Lup ; 2.80; 26000;occ; 100; 0;37061  
 11; 947.2; 02-APR-2009 04:14:29; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;37061  
 12; 1109.2; 02-APR-2009 04:17:11; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;37061  
 13; 1434.3; 02-APR-2009 04:22:36; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;37061  
 14; 1688.2; 02-APR-2009 04:26:50; Dark ; 60.5; 15; 67Alp Vir ; 0.98; 28000;occ; 121; 0;37061  
 15; 1881.7; 02-APR-2009 04:30:04; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;37061  
 16; 2154.3; 02-APR-2009 04:34:36; Bright; 58.0; 138; 47Eps Vir ; 2.83; 4700;occ; 116; 0;37061  
 17; 2668.8; 02-APR-2009 04:43:11; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;37061  
 18; 2952.1; 02-APR-2009 04:47:54; Bright; 59.0; 32; 77Eps UMa ; 1.76; 11000;occ; 118; 0;37061  
 19; 3498.1; 02-APR-2009 04:57:00; Bright; 70.5; 119; 14Eta Dra ; 2.73; 4700;occ; 141; 0;37061

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090402\_050839\_000053822077\_00434\_37061\_7524.N1

1; -1838.9; 02-APR-2009 05:08:39; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;37061  
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 7; 1121.9; 03-APR-2009 23:52:58; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;37087  
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 16; 2940.4; 04-APR-2009 03:44:28; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;37089  
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 6; 130.4; 04-APR-2009 04:38:14; Dark ; 57.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 114; 0;37090  
 7; 384.4; 04-APR-2009 04:42:28; Dark ; 56.0; 25; 35Lam Sco ; 1.62; 28000;occ; 112; 0;37090  
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7; 131.9; 04-APR-2009 06:18:52; Dark ; 54.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 108; 0;37091
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12; 1441.5; 04-APR-2009 06:40:41; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;37091
13; 1687.9; 04-APR-2009 06:44:48; Dark ; 57.5; 15; 67Alp Vir ; 0.98; 28000;occ; 115; 0;37091
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16; 2652.5; 04-APR-2009 07:00:52; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37091
17; 2939.8; 04-APR-2009 07:05:39; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;37091
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5; 2693.6; 23-APR-2009 17:08:03; Bright; 45.5; 180; 27Gam Boo ; 3.04; 8000;occ; 91; 0;37369  
6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369  
7; 3855.9; 23-APR-2009 17:27:25; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;37369

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3; 2250.5; 25-APR-2009 14:16:50; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;37396
4; 2502.6; 25-APR-2009 14:21:02; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;37396
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6; 3260.0; 25-APR-2009 14:33:39; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;37396
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3; 2275.3; 28-APR-2009 12:42:24; Bright; 61.0; 3; 16Alp Boo ; -0.05; 4250;occ; 122; 0;37438
4; 2475.3; 28-APR-2009 12:45:44; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37438
5; 2653.2; 28-APR-2009 12:48:42; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37438
6; 3232.3; 28-APR-2009 12:58:21; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;37438

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1;	787.6;	29-APR-2009	20:08:59;	Dark	;	58.5;	40;	The Sco	;	1.86;	7100;occ;	117;	108;	37457
2;	837.3;	29-APR-2009	20:09:49;	Dark	;	63.0;	25;	35Lam Sco	;	1.62;	28000;occ;	126;	0;	37457
3;	1028.9;	29-APR-2009	20:13:00;	Dark	;	60.5;	75;	26Eps Sco	;	2.29;	4250;occ;	121;	0;	37457
4;	1200.4;	29-APR-2009	20:15:52;	Dark	;	35.0;	136;	23Tau Sco	;	2.82;	30000;occ;	70;	0;	37457
5;	1293.5;	29-APR-2009	20:17:25;	Dark	;	39.0;	156;	20Sig Sco	;	2.90;	28000;occ;	78;	0;	37457
6;	1395.6;	29-APR-2009	20:19:07;	Dark	;	63.0;	80;	7Del Sco	;	2.32;	30000;occ;	126;	0;	37457
7;	1588.9;	29-APR-2009	20:22:20;	Bright;		44.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	89;	0;	37457
8;	1729.7;	29-APR-2009	20:24:41;	Bright;		50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	37457
9;	2269.4;	29-APR-2009	20:33:41;	Bright;		60.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	120;	0;	37457
10;	2464.2;	29-APR-2009	20:36:56;	Bright;		44.0;	83;		;	2.38;	11000;occ;	88;	0;	37457
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12;	3220.2;	29-APR-2009	20:49:32;	Bright;		44.0;	119;	14Eta Dra	;	2.73;	4700;occ;	88;	0;	37457
13;	3833.2;	29-APR-2009	20:59:45;	Bright;		41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	37457
14;	4506.3;	29-APR-2009	21:10:58;	Bright;		42.5;	164;	44Eta Peg	;	2.95;	5400;occ;	85;	0;	37457
15;	5020.1;	29-APR-2009	21:19:32;	Dark	;	64.5;	61;	8Eps Peg	;	2.10;	3900;occ;	129;	0;	37457
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2;	-494.9;	29-APR-2009	21:28:13;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;	37457
3;	734.5;	29-APR-2009	21:48:42;	Dark	;	49.5;	40;	The Sco	;	1.86;	7100;occ;	99;	0;	37458
4;	838.4;	29-APR-2009	21:50:26;	Dark	;	64.0;	25;	35Lam Sco	;	1.62;	28000;occ;	128;	0;	37458
5;	1029.6;	29-APR-2009	21:53:37;	Dark	;	63.0;	75;	26Eps Sco	;	2.29;	4250;occ;	126;	0;	37458
6;	1201.0;	29-APR-2009	21:56:28;	Dark	;	38.0;	136;	23Tau Sco	;	2.82;	30000;occ;	76;	0;	37458
7;	1293.5;	29-APR-2009	21:58:01;	Dark	;	43.0;	156;	20Sig Sco	;	2.90;	28000;occ;	86;	0;	37458
8;	1396.2;	29-APR-2009	21:59:44;	Dark	;	61.5;	80;	7Del Sco	;	2.32;	30000;occ;	123;	0;	37458
9;	1589.1;	29-APR-2009	22:02:57;	Bright;		46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	37458
10;	1729.2;	29-APR-2009	22:05:17;	Bright;		50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	37458
11;	2268.9;	29-APR-2009	22:14:16;	Bright;		60.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	120;	0;	37458
12;	2463.8;	29-APR-2009	22:17:31;	Bright;		48.5;	83;		;	2.38;	11000;occ;	97;	0;	37458
13;	2643.4;	29-APR-2009	22:20:31;	Bright;		39.0;	180;	27Gam Boo	;	3.04;	8000;occ;	78;	0;	37458
14;	3219.5;	29-APR-2009	22:30:07;	Bright;		45.0;	119;	14Eta Dra	;	2.73;	4700;occ;	90;	0;	37458
15;	3832.8;	29-APR-2009	22:40:20;	Bright;		52.0;	89;	5Alp Cep	;	2.45;	8000;occ;	104;	0;	37458
16;	4506.4;	29-APR-2009	22:51:34;	Bright;		43.0;	164;	44Eta Peg	;	2.95;	5400;occ;	86;	0;	37458
17;	5020.8;	29-APR-2009	23:00:08;	Dark	;	66.0;	61;	8Eps Peg	;	2.10;	3900;occ;	132;	0;	37458
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2;	-493.8;	29-APR-2009	23:08:49;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	37458
3;	735.1;	29-APR-2009	23:29:18;	Dark	;	58.5;	40;	The Sco	;	1.86;	7100;occ;	117;	0;	37459
4;	839.3;	29-APR-2009	23:31:03;	Dark	;	55.5;	25;	35Lam Sco	;	1.62;	28000;occ;	111;	0;	37459
5;	1030.5;	29-APR-2009	23:34:14;	Dark	;	59.5;	75;	26Eps Sco	;	2.29;	4250;occ;	119;	0;	37459
6;	1201.7;	29-APR-2009	23:37:05;	Dark	;	38.0;	136;	23Tau Sco	;	2.82;	30000;occ;	76;	0;	37459
7;	1294.3;	29-APR-2009	23:38:38;	Dark	;	43.0;	156;	20Sig Sco	;	2.90;	28000;occ;	86;	0;	37459
8;	1396.2;	29-APR-2009	23:40:20;	Dark	;	60.0;	80;	7Del Sco	;	2.32;	30000;occ;	120;	0;	37459
9;	1589.1;	29-APR-2009	23:43:32;	Bright;		44.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	88;	0;	37459
10;	1729.3;	29-APR-2009	23:45:53;	Bright;		49.0;	104;	27Bet Lib	;	2.61;	13100;occ;	98;	0;	37459
11;	2268.5;	29-APR-2009	23:54:52;	Bright;		60.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	120;	0;	37459
12;	2463.2;	29-APR-2009	23:58:06;	Bright;		43.5;	83;		;	2.38;	11000;occ;	87;	0;	37459
13;	2642.6;	30-APR-2009	00:01:06;	Bright;		44.0;	180;	27Gam Boo	;	3.04;	8000;occ;	88;	0;	37459
14;	3219.1;	30-APR-2009	00:10:42;	Bright;		43.5;	119;	14Eta Dra	;	2.73;	4700;occ;	87;	0;	37459
15;	3832.6;	30-APR-2009	00:20:56;	Bright;		41.0;	89;	5Alp Cep	;	2.45;	8000;occ;	82;	0;	37459
16;	4506.6;	30-APR-2009	00:32:10;	Bright;		42.5;	164;	44Eta Peg	;	2.95;	5400;occ;	85;	0;	37459
17;	5021.7;	30-APR-2009	00:40:45;	Dark	;	63.0;	61;	8Eps Peg	;	2.10;	3900;occ;	126;	0;	37459
18;	5167.9;	30-APR-2009	00:43:11;	Dark	;	50.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	101;	0;	37459

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2;	1588.3;	29-APR-2009	11:59:20;	Bright;		43.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	86;	0;	37452
3;	1729.9;	29-APR-2009	12:01:42;	Bright;		50.5;	104;	27Bet Lib	;	2.61;	13100;occ;	101;	0;	37452
4;	2270.8;	29-APR-2009	12:10:43;	Bright;		61.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	122;	0;	37452
5;	2467.2;	29-APR-2009	12:13:59;	Bright;		43.5;	83;		;	2.38;	11000;occ;	87;	0;	37452
6;	2646.1;	29-APR-2009	12:16:58;	Bright;		42.5;	180;	27Gam Boo	;	3.04;	8000;occ;	85;	0;	37452
7;	3223.6;	29-APR-2009	12:26:35;	Bright;		46.0;	119;	14Eta Dra	;	2.73;	4700;occ;	92;	0;	37452
8;	3834.6;	29-APR-2009	12:36:46;	Bright;		40.5;	89;	5Alp Cep	;	2.45;	8000;occ;	81;	0;	37452
9;	4505.5;	29-APR-2009	12:47:57;	Bright;		42.5;	164;	44Eta Peg	;	2.95;	5400;occ;	85;	0;	37452
10;	5016.1;	29-APR-2009	12:56:28;	Dark	;	67.0;	61;	8Eps Peg	;	2.10;	3900;occ;	134;	0;	37452
11;	5162.6;	29-APR-2009	12:58:54;	Dark	;	52.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	105;	0;	37452
12;	5377.7;	29-APR-2009	13:02:29;	Dark	;	62.0;	154;	22Bet Aqr	;	2.90;	5700;occ;	124;	0;	37452



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 7; 3834.4; 29-APR-2009 14:17:22; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;37453
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 9; 5017.1; 29-APR-2009 14:37:05; Dark ; 63.0; 61; 8Eps Peg ; 2.10; 3900;occ; 126; 0;37453
10; 5163.5; 29-APR-2009 14:39:31; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;37453
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 6; 2645.0; 29-APR-2009 15:38:08; Bright; 50.0; 180; 27Gam Boo ; 3.04; 8000;occ; 100; 0;37454
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15; 6871.4; 29-APR-2009 16:48:35; Dark ; 62.5; 25; 35Lam Sco ; 1.62; 28000;occ; 125; 0;37454
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 6; 1729.6; 29-APR-2009 17:03:29; Bright; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;37455
 7; 2269.8; 29-APR-2009 17:12:29; Bright; 60.0; 3; 16Alp Boo ; -0.05; 4250;occ; 120; 0;37455
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 9; 2644.6; 29-APR-2009 17:18:44; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;37455
10; 3221.6; 29-APR-2009 17:28:21; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37455
11; 3833.7; 29-APR-2009 17:38:33; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37455
12; 4505.9; 29-APR-2009 17:49:45; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;37455
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