

GOMOS Daily Report 24-APR-2011

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	28APR2011 07:06:38
Data source version	GOMOS/5.01
Start time of products	24APR2011 00:01:27
Stop time of products	24APR2011 23:52:24
Store outputs in DB	Yes
Nb of level 1b prods	271
Nb of prods with errors	5

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

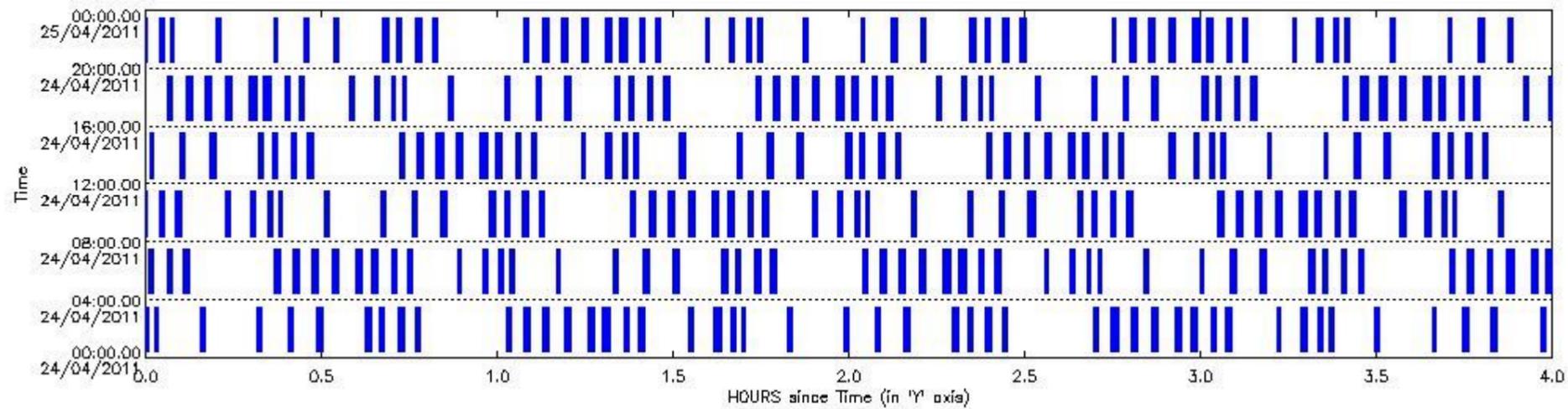
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

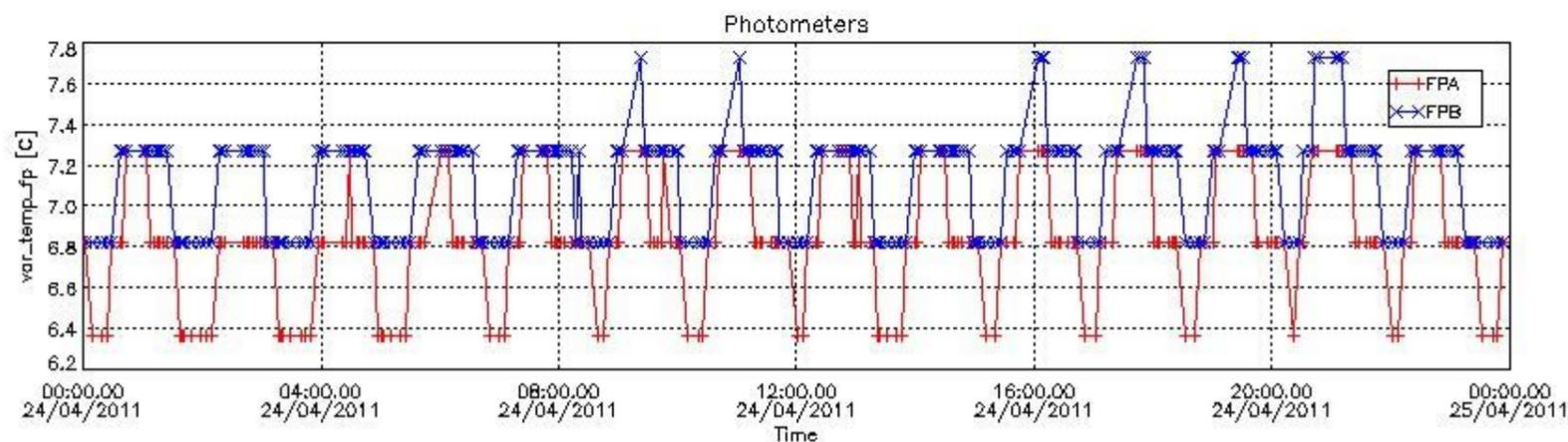
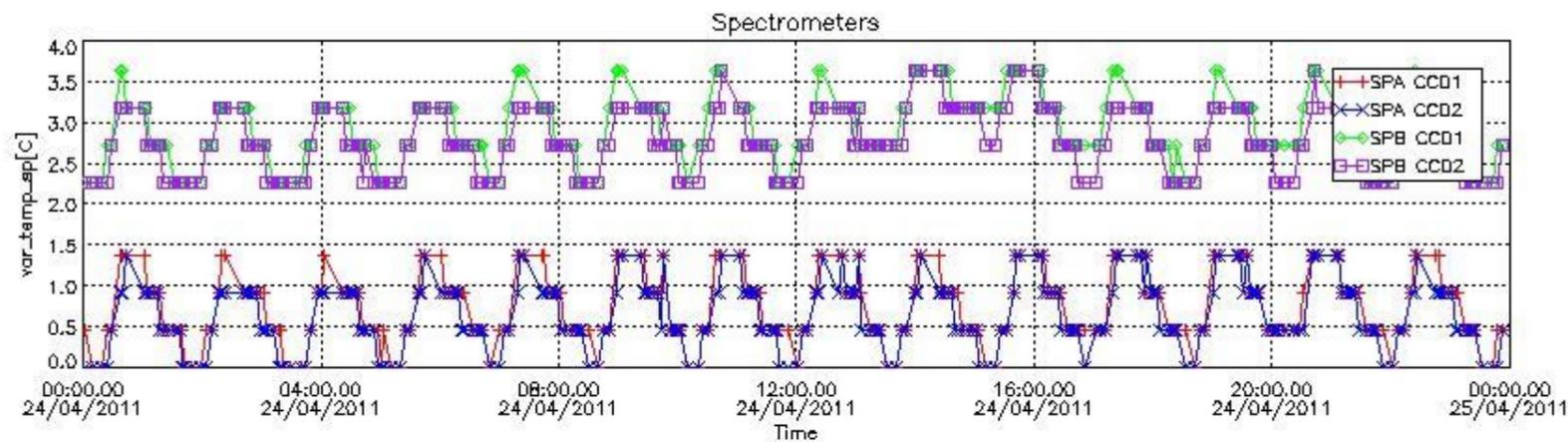
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110424_000127_000000393101_00404_47832_7736.N1	24-APR-2011 00:01:27	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	47832	No
2	GOM_TRA_1PNPDE20110424_000918_000000433101_00404_47832_7737.N1	24-APR-2011 00:09:18	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	47832	No
3	GOM_TRA_1PNPDE20110424_001900_000000423101_00404_47832_7738.N1	24-APR-2011 00:19:00	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	47832	No
4	GOM_TRA_1PNPDE20110424_002412_000000553101_00404_47832_7739.N1	24-APR-2011 00:24:12	Bright	54.500	19	50Alp Cyg	1.2460	10500.	109	47832	No
5	GOM_TRA_1PNPDE20110424_002907_000000663101_00404_47832_7740.N1	24-APR-2011 00:29:07	Twilight_stray	66.000	92	53Eps Cyg	2.5000	4500.0	132	47832	No
6	GOM_TRA_1PNPDE20110424_003727_000000593101_00404_47832_7741.N1	24-APR-2011 00:37:27	Dark	58.500	61	8Eps Peg	2.1000	3900.0	117	47832	No
7	GOM_TRA_1PNPDE20110424_003955_000000493101_00404_47832_7742.N1	24-APR-2011 00:39:55	Dark	49.000	162	34Alp Aqr	2.9440	5350.0	98	47832	No
8	GOM_TRA_1PNPDE20110424_004303_000000573101_00404_47832_7749.N1	24-APR-2011 00:43:03	Dark	57.000	154	22Bet Aqr	2.8990	5700.0	114	47832	Yes
9	GOM_TRA_1PNPDE20110424_010124_000000583101_00405_47833_7750.N1	24-APR-2011 01:01:24	Dark	58.000	103	38Zet Sgr	2.6000	9700.0	116	47833	No
10	GOM_TRA_1PNPDE20110424_010429_000000633101_00405_47833_7751.N1	24-APR-2011 01:04:29	Dark	63.000	38	20Eps Sgr	1.8360	11000.	126	47833	No
11	GOM_TRA_1PNPDE20110424_010747_000000613101_00405_47833_7752.N1	24-APR-2011 01:07:47	Straylight	61.000	25	35Lam Sco	1.6200	28000.	122	47833	No
12	GOM_TRA_1PNPDE20110424_011117_000000663101_00405_47833_7753.N1	24-APR-2011 01:11:17	Straylight	65.500	75	26Eps Sco	2.2910	4250.0	131	47833	No

249	GOM_TRA_1PNPDE20110424_215211_000000483101_00417_47845_7951.N1	24-APR-2011 21:52:11	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47845	No
250	GOM_TRA_1PNPDE20110424_220158_000000413101_00417_47845_7952.N1	24-APR-2011 22:01:58	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	47845	No
251	GOM_TRA_1PNPDE20110424_220710_000000563101_00417_47845_7953.N1	24-APR-2011 22:07:10	Bright	56.000	19	50Alp Cyg	1.2460	10500.	112	47845	No
252	GOM_TRA_1PNPDE20110424_221210_000000493101_00417_47845_7954.N1	24-APR-2011 22:12:10	Twilight_stray	49.000	92	53Eps Cyg	2.5000	4500.0	98	47845	No
253	GOM_TRA_1PNPDE20110424_222037_000000543101_00417_47845_7955.N1	24-APR-2011 22:20:37	Dark	53.500	61	8Eps Peg	2.1000	3900.0	107	47845	No
254	GOM_TRA_1PNPDE20110424_222305_000000503101_00417_47845_7956.N1	24-APR-2011 22:23:05	Dark	49.500	162	34Alp Aqr	2.9440	5350.0	99	47845	No
255	GOM_TRA_1PNPDE20110424_222617_000000553101_00417_47845_7968.N1	24-APR-2011 22:26:17	Dark	54.500	154	22Bet Aqr	2.8990	5700.0	109	47845	No
256	GOM_TRA_1PNPDE20110424_224449_000000423101_00418_47846_7969.N1	24-APR-2011 22:44:49	Dark	42.000	103	38Zet Sgr	2.6000	9700.0	84	47846	No
257	GOM_TRA_1PNPDE20110424_224750_000000703101_00418_47846_7970.N1	24-APR-2011 22:47:50	Straylight	69.500	38	20Eps Sgr	1.8360	11000.	139	47846	No
258	GOM_TRA_1PNPDE20110424_225104_000000613101_00418_47846_7971.N1	24-APR-2011 22:51:04	Straylight	61.000	25	35Lam Sco	1.6200	28000.	122	47846	No
259	GOM_TRA_1PNPDE20110424_225430_000000633101_00418_47846_7972.N1	24-APR-2011 22:54:30	Straylight	63.000	75	26Eps Sco	2.2910	4250.0	126	47846	No
260	GOM_TRA_1PNPDE20110424_225831_000000783101_00418_47846_7973.N1	24-APR-2011 22:58:31	Twilight_stray	78.000	16	21Alp Sco	1.0200	3000.0	156	47846	No
261	GOM_TRA_1PNPDE20110424_230104_000000683101_00418_47846_7974.N1	24-APR-2011 23:01:04	Twilight_stray	67.500	80	7Del Sco	2.3160	30000.	135	47846	No
262	GOM_TRA_1PNPDE20110424_230432_000000483101_00418_47846_7975.N1	24-APR-2011 23:04:32	Bright	47.500	122	9Alp2Lib	2.7470	9700.0	95	47846	No
263	GOM_TRA_1PNPDE20110424_230704_000000553101_00418_47846_7976.N1	24-APR-2011 23:07:04	Bright	54.500	104	27Bet Lib	2.6140	13100.	109	47846	No
264	GOM_TRA_1PNPDE20110424_231539_000000423101_00418_47846_7977.N1	24-APR-2011 23:15:39	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	47846	No
265	GOM_TRA_1PNPDE20110424_231950_000000513101_00418_47846_7978.N1	24-APR-2011 23:19:50	Bright	50.500	83		2.3780	11000.	101	47846	No
266	GOM_TRA_1PNPDE20110424_232243_000000443101_00418_47846_7979.N1	24-APR-2011 23:22:43	Bright	43.500	180	27Gam Boo	3.0400	8000.0	87	47846	No
267	GOM_TRA_1PNPDE20110424_232438_000000393101_00418_47846_7980.N1	24-APR-2011 23:24:38	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	47846	No
268	GOM_TRA_1PNPDE20110424_233224_000000453101_00418_47846_7981.N1	24-APR-2011 23:32:24	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	47846	No
269	GOM_TRA_1PNPDE20110424_234212_000000423101_00418_47846_7982.N1	24-APR-2011 23:42:12	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	47846	No
270	GOM_TRA_1PNPDE20110424_234724_000000573101_00418_47846_7983.N1	24-APR-2011 23:47:24	Bright	57.000	19	50Alp Cyg	1.2460	10500.	114	47846	No
271	GOM_TRA_1PNPDE20110424_235224_000000423101_00418_47846_7984.N1	24-APR-2011 23:52:24	Twilight_stray	42.000	92	53Eps Cyg	2.5000	4500.0	84	47846	No

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



4. Overview of dark signal processing per product

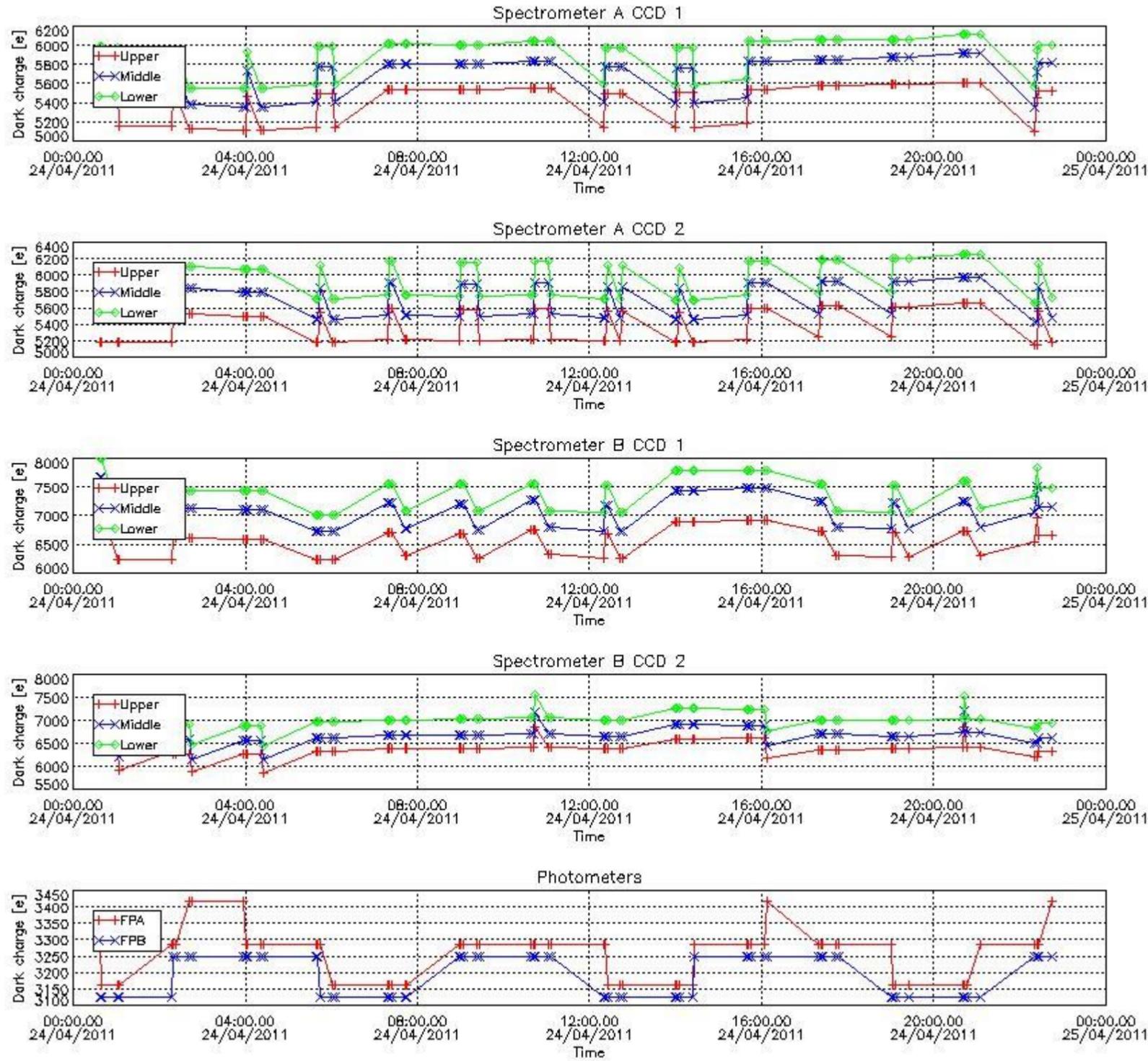
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110424_211817_000000773101_00417_47845_7943.N1	DC map used
GOM_TRA_1PNPDE20110424_212050_000000743101_00417_47845_7944.N1	DC map used
GOM_TRA_1PNPDE20110424_212418_000000503101_00417_47845_7945.N1	DC map used
GOM_TRA_1PNPDE20110424_212651_000000553101_00417_47845_7946.N1	DC map used
GOM_TRA_1PNPDE20110424_213525_000000403101_00417_47845_7947.N1	DC map used
GOM_TRA_1PNPDE20110424_213937_000000473101_00417_47845_7948.N1	DC map used
GOM_TRA_1PNPDE20110424_214230_000000443101_00417_47845_7949.N1	DC map used
GOM_TRA_1PNPDE20110424_214425_000000413101_00417_47845_7950.N1	DC map used
GOM_TRA_1PNPDE20110424_215211_000000483101_00417_47845_7951.N1	DC map used
GOM_TRA_1PNPDE20110424_220158_000000413101_00417_47845_7952.N1	DC map used
GOM_TRA_1PNPDE20110424_220710_000000563101_00417_47845_7953.N1	DC map used
GOM_TRA_1PNPDE20110424_221210_000000493101_00417_47845_7954.N1	DC map used
GOM_TRA_1PNPDE20110424_222037_000000543101_00417_47845_7955.N1	DC map used
GOM_TRA_1PNPDE20110424_222305_000000503101_00417_47845_7956.N1	DC map used

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



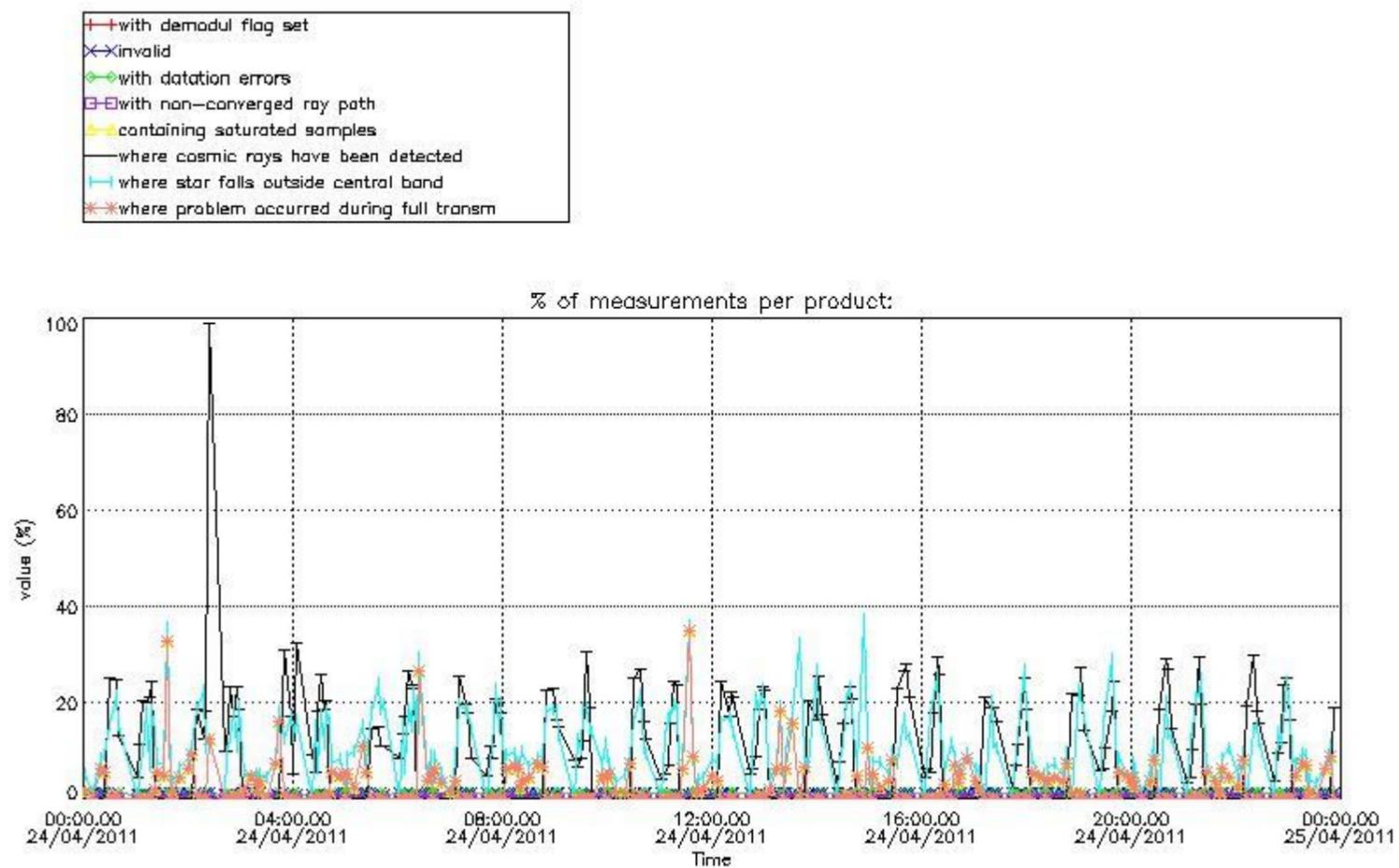
5. Demodulation flag and quality information monitoring

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.

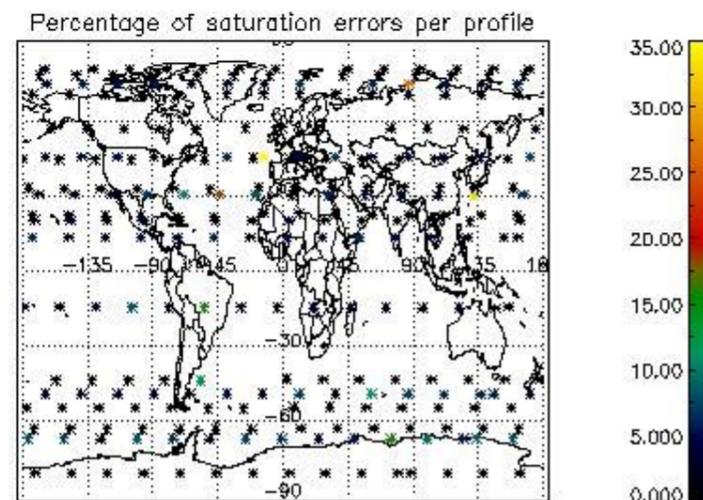
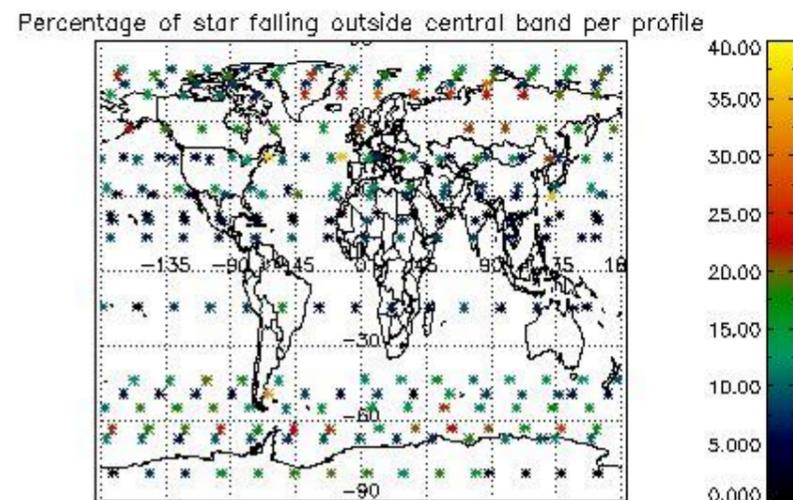
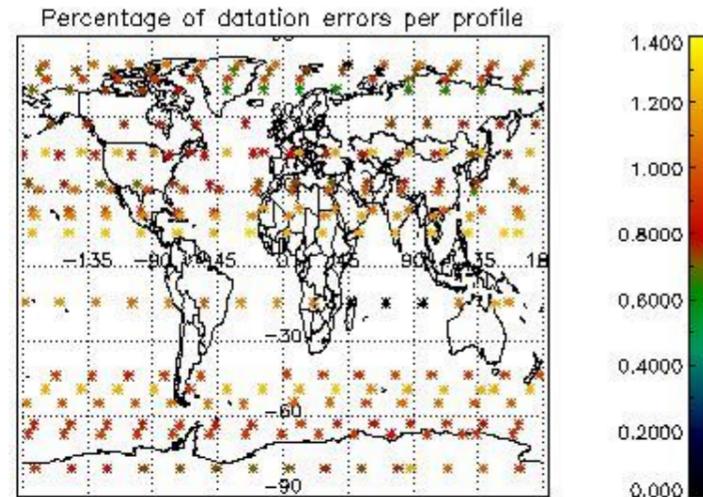
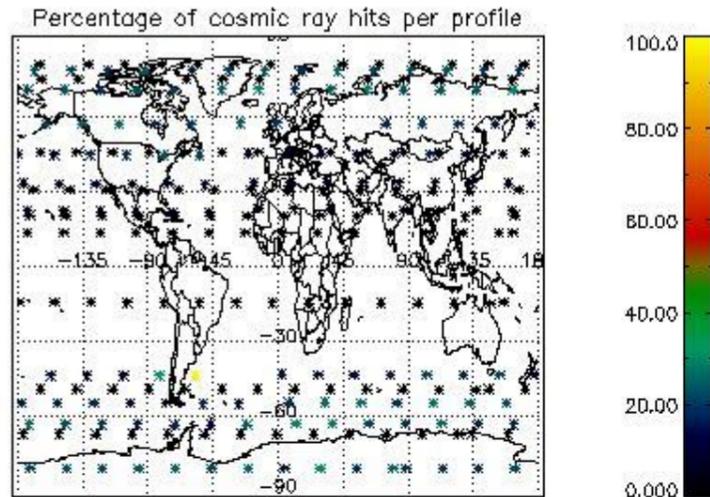
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	51.8797 %
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)



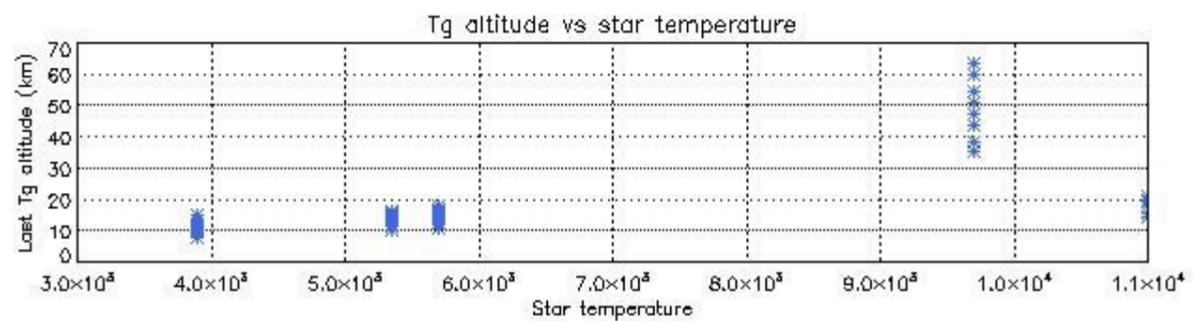
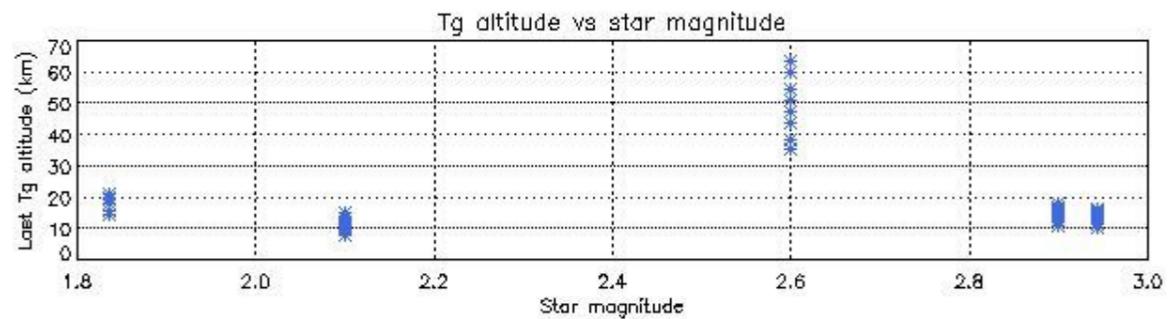
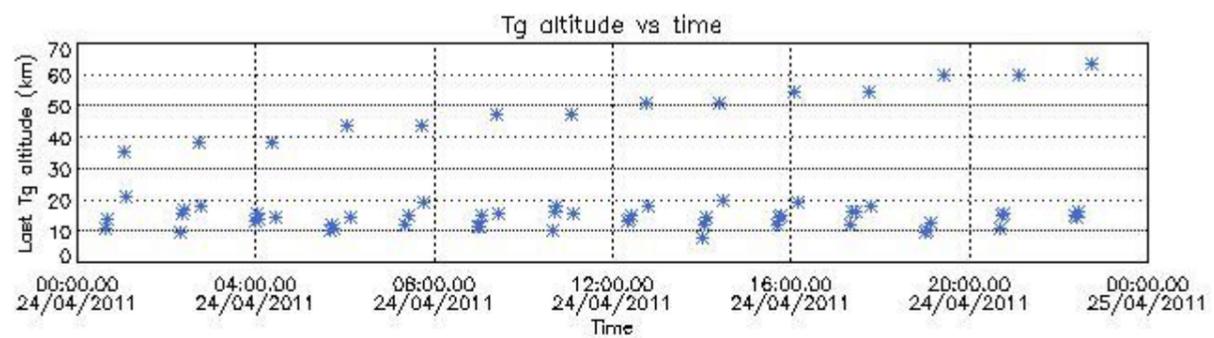
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.567	19.730	NaN
St. deviation:	15.151	3.9811	NaN
Maximum:	63.401	28.142	NaN
Minimum:	7.7300	3.5498	NaN
Number of data:	66.000	128.00	NaN

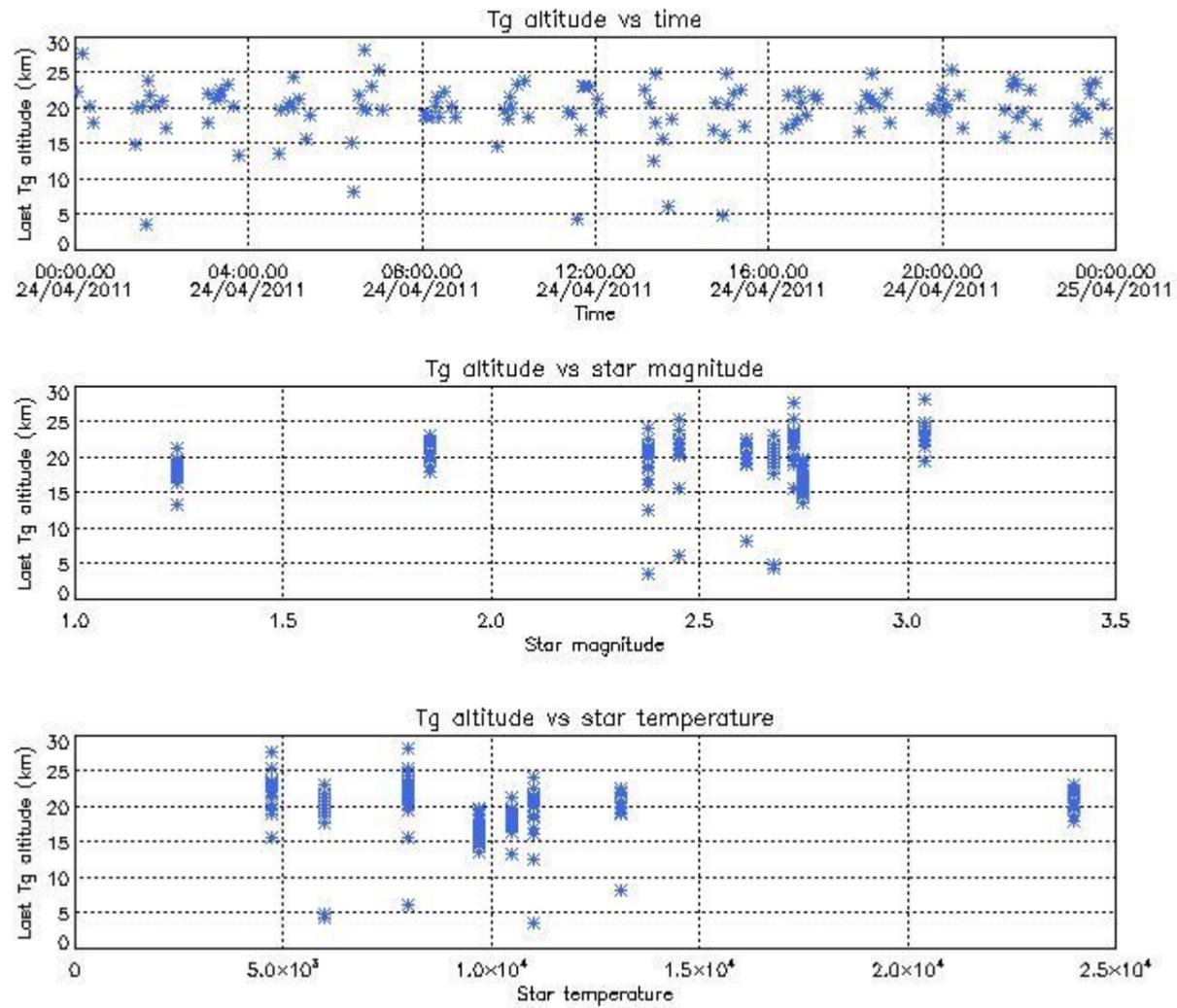
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

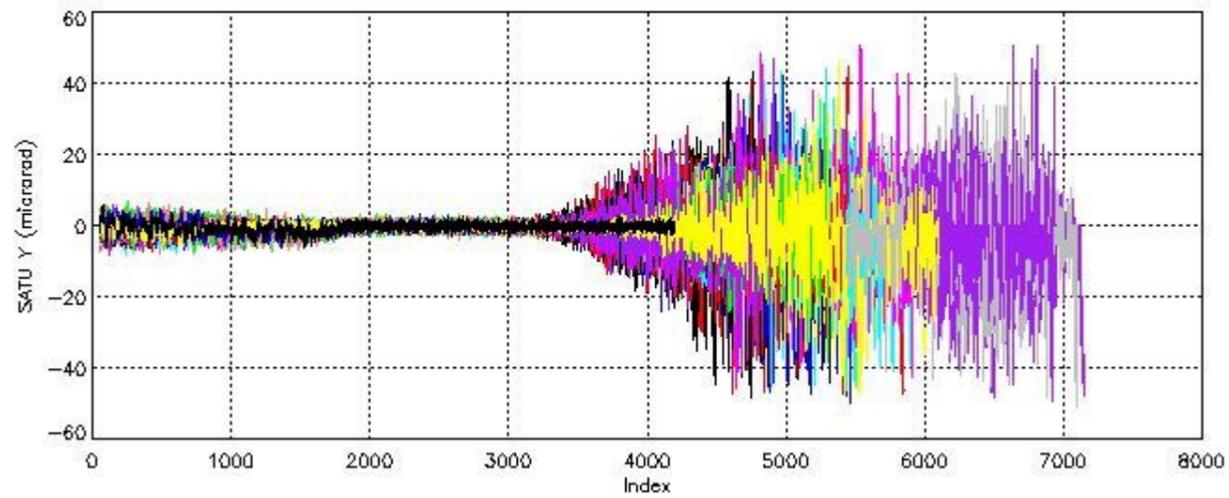
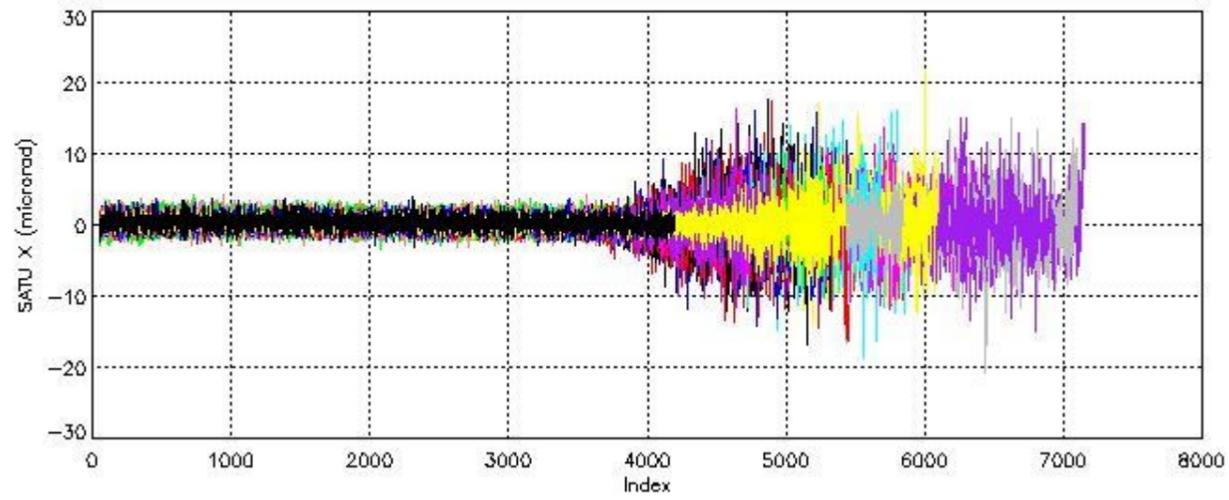


7. Star Acquisition and Tracking Unit (SATU)

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:	0.33941	-1.1261	0.32366	-1.4588
St. deviation:	0.63330	1.5459	0.88408	1.7682
Maximum:	4.2000	6.7000	6.0000	7.2000
Minimum:	-3.0000	-8.3000	-5.2000	-12.000

Number of data:	87850.	87850.	1.4135E+05	1.4135E+05
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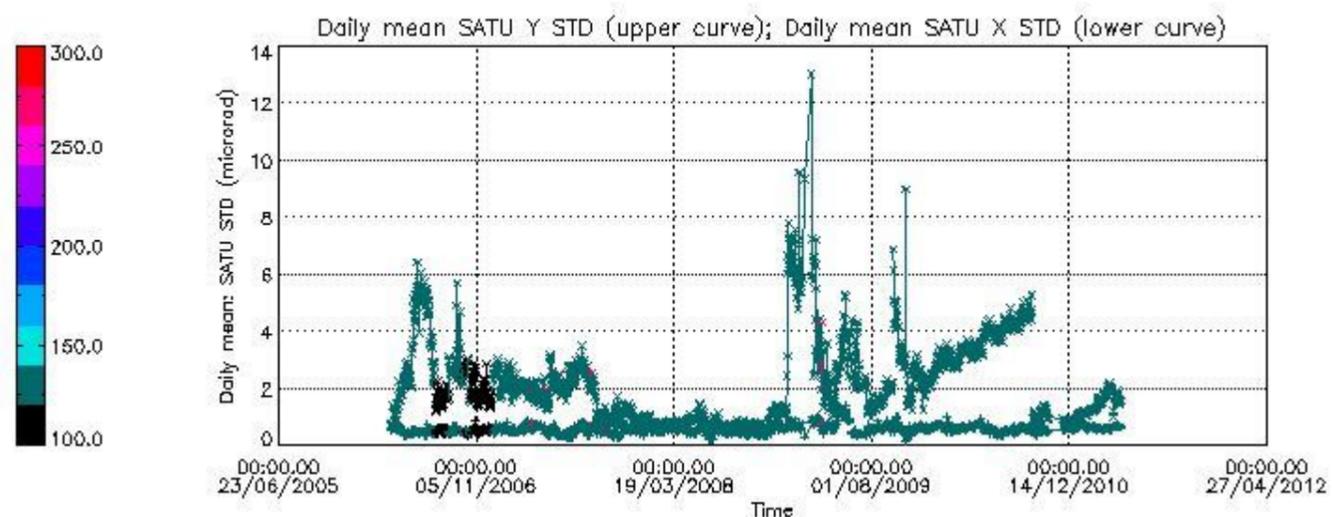
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

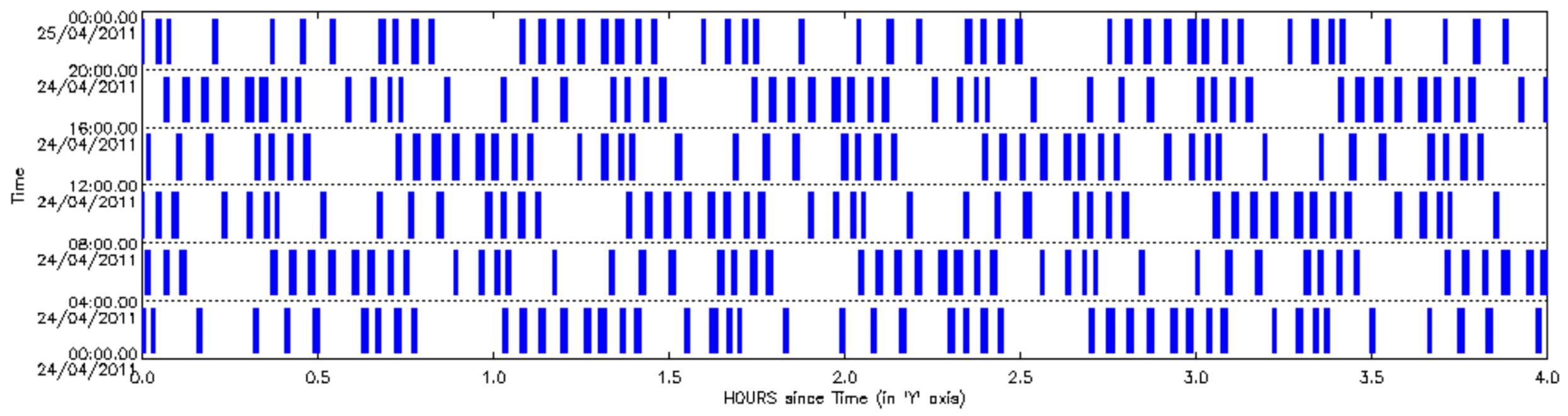


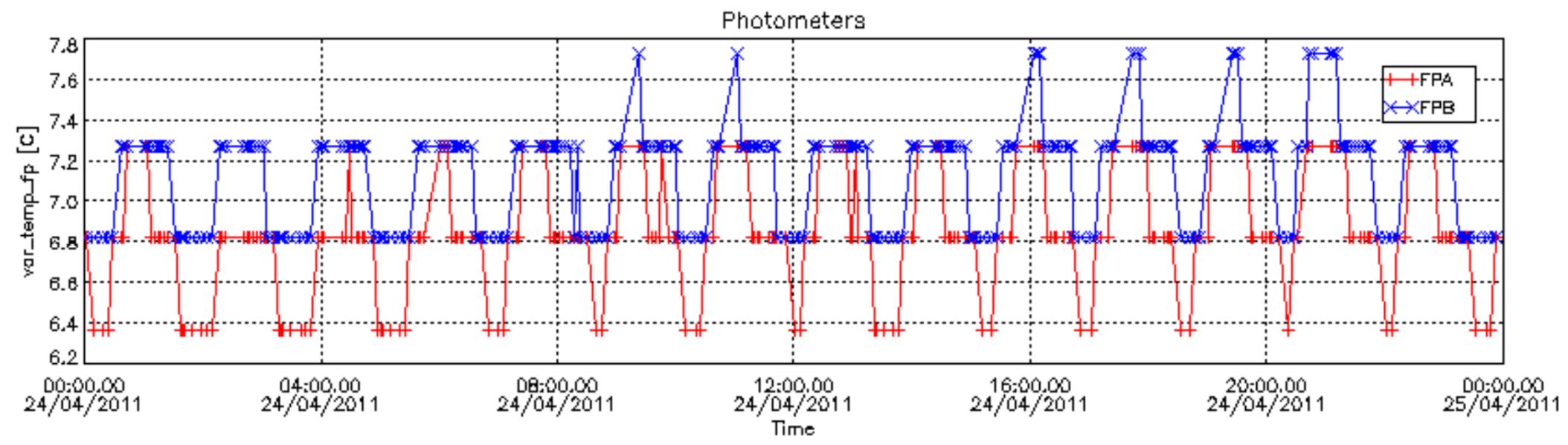
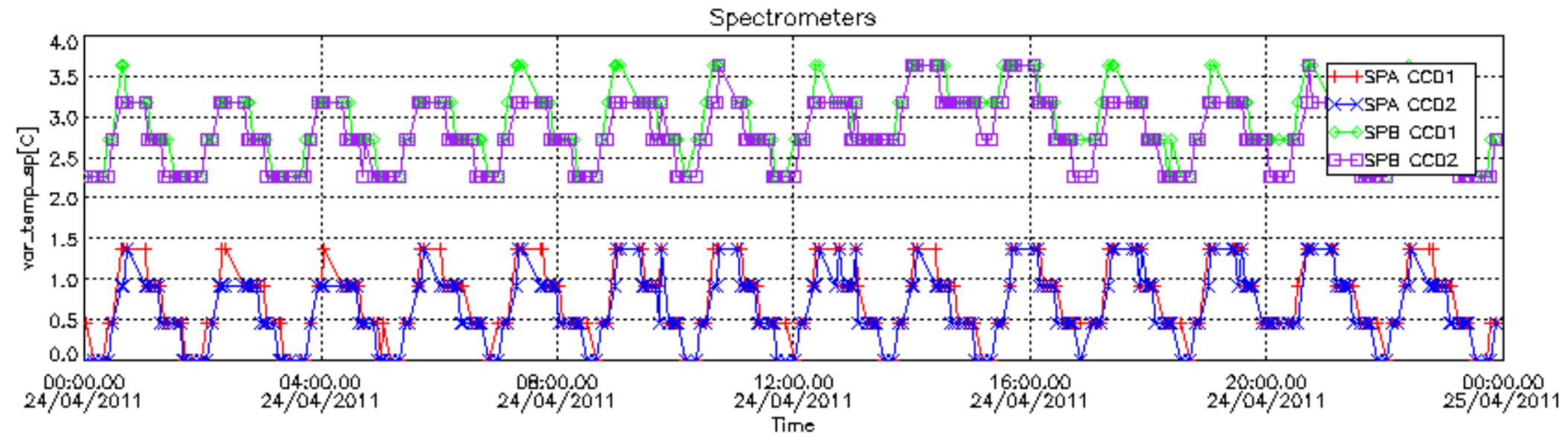
8. Auxiliary Data Files used for the production reported in section 2.4

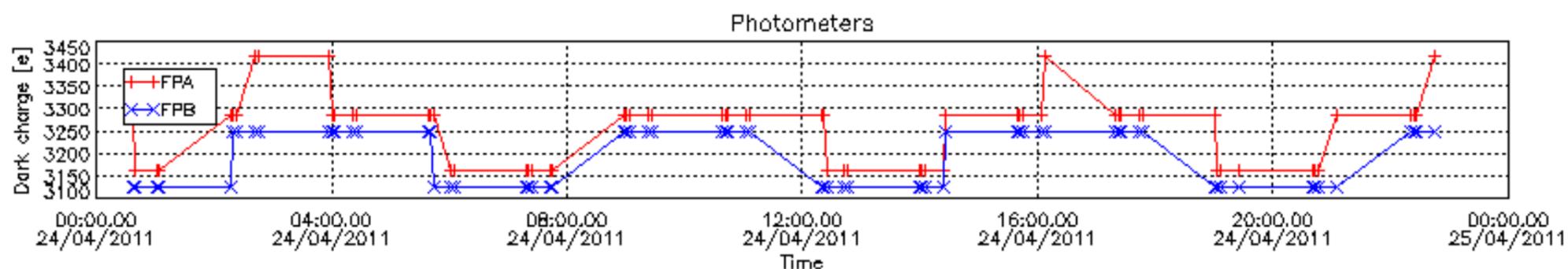
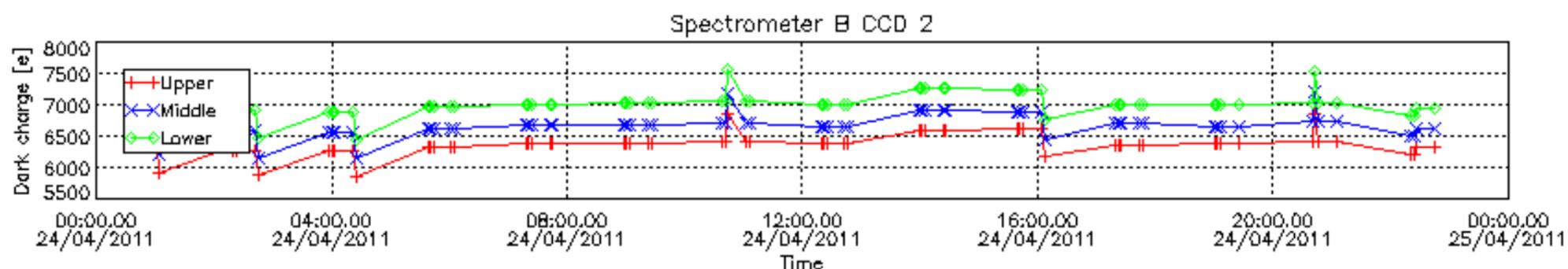
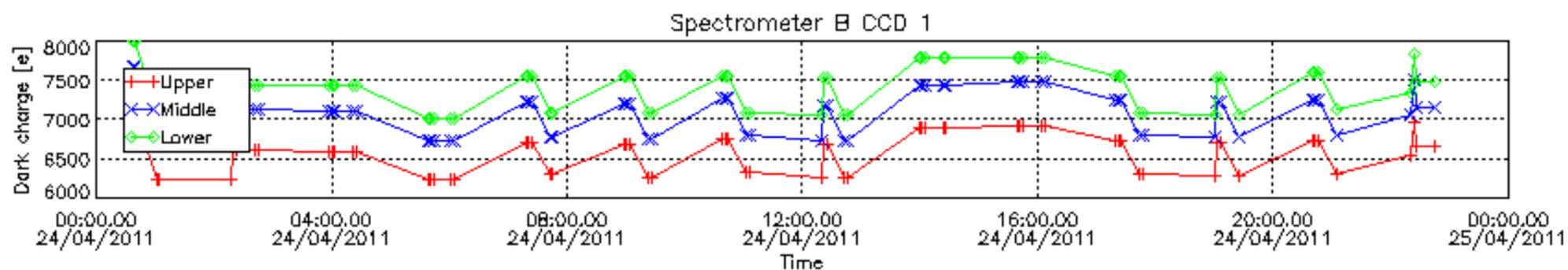
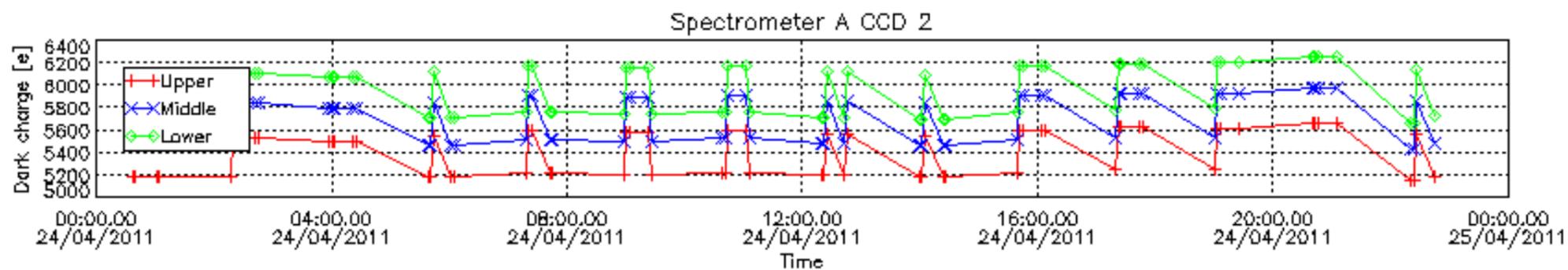
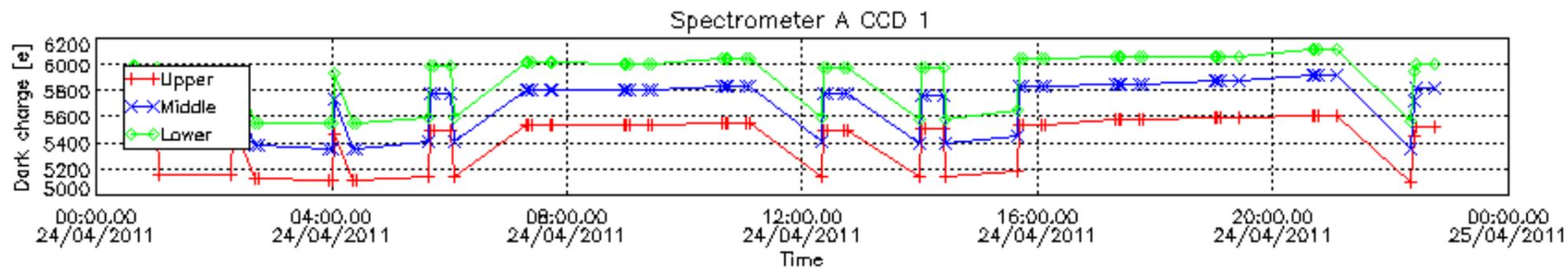
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

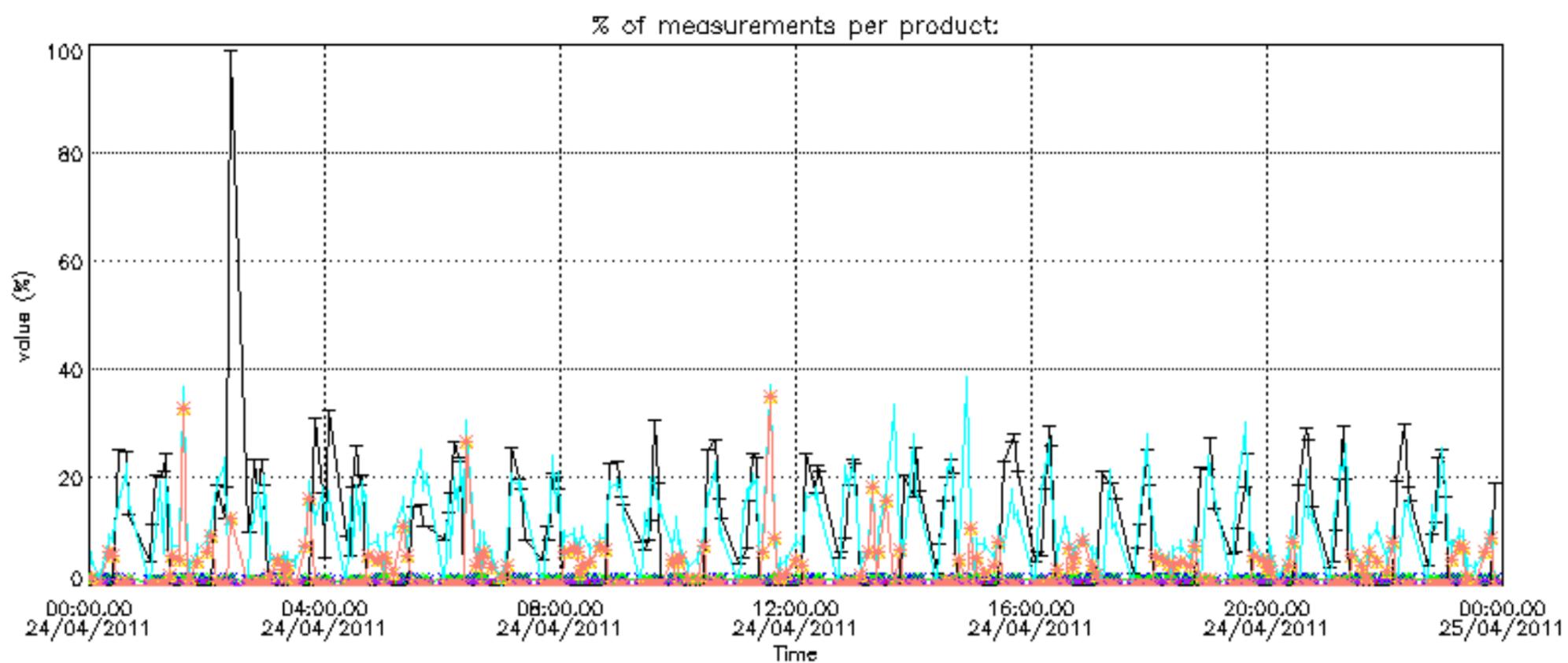
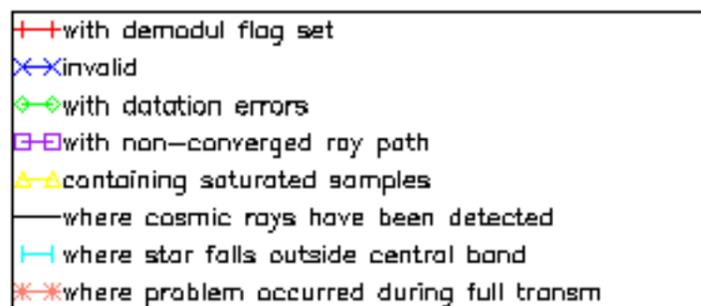
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	24-APR-2011 00:01:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110421_075944_20110419_000000_20500101_000000	1	24-APR-2011 00:01:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	24-APR-2011 00:01:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-APR-2011 00:01:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	24-APR-2011 00:01:27
ECMWF_FILE	AUX_ECF_AXNECM20110423_062116_20110423_210000_20110424_090000	1	24-APR-2011 00:01:27
ECMWF_FILE	AUX_ECF_AXNECM20110423_183325_20110424_030000_20110424_150000	41	24-APR-2011 03:39:27
ECMWF_FILE	AUX_ECA_AXNECM20110424_062113_20110423_210000_20110424_090000	60	24-APR-2011 05:19:41
ECMWF_FILE	AUX_ECF_AXNECM20110423_183325_20110424_030000_20110424_150000	92	24-APR-2011 08:04:59
ECMWF_FILE	AUX_ECF_AXNECM20110424_062114_20110424_090000_20110424_210000	111	24-APR-2011 09:45:13
ECMWF_FILE	AUX_ECF_AXNECM20110424_062114_20110424_150000_20110425_030000	185	24-APR-2011 16:20:06
ECMWF_FILE	AUX_ECA_AXNECM20110424_182114_20110424_090000_20110424_210000	202	24-APR-2011 17:53:46
ECMWF_FILE	AUX_ECF_AXNECM20110424_062114_20110424_150000_20110425_030000	221	24-APR-2011 19:34:00
ECMWF_FILE	AUX_ECF_AXNECM20110424_062114_20110424_210000_20110425_090000	241	24-APR-2011 21:18:17
OPTIONAL_ECMWF_FILE	MISSING	1	24-APR-2011 00:01:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110423_225827_000057383101_00403_47831_2976.N1	1	24-APR-2011 00:01:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110424_003925_000054193101_00404_47832_2977.N1	8	24-APR-2011 00:43:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110424_021503_000044633101_00405_47833_2978.N1	26	24-APR-2011 02:20:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110424_033445_000057383101_00406_47834_2979.N1	41	24-APR-2011 03:39:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110424_051542_000054193101_00407_47835_2980.N1	60	24-APR-2011 05:19:41

ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_065120_000038263101_00408_47836_4390.N1	79	24-APR-2011 06:59:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_080024_000057383101_00409_47837_4391.N1	92	24-APR-2011 08:04:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_094121_000057383101_00410_47838_4392.N1	111	24-APR-2011 09:45:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_112218_000057383101_00411_47839_4393.N1	130	24-APR-2011 11:25:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_130316_000054193101_00412_47840_4394.N1	148	24-APR-2011 13:03:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_143854_000054193101_00413_47841_4395.N1	167	24-APR-2011 14:43:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_161432_000054193101_00414_47842_4396.N1	185	24-APR-2011 16:20:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_175010_000057383101_00415_47843_4397.N1	202	24-APR-2011 17:53:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110424_193107_000057383101_00416_47844_4398.N1	221	24-APR-2011 19:34:00
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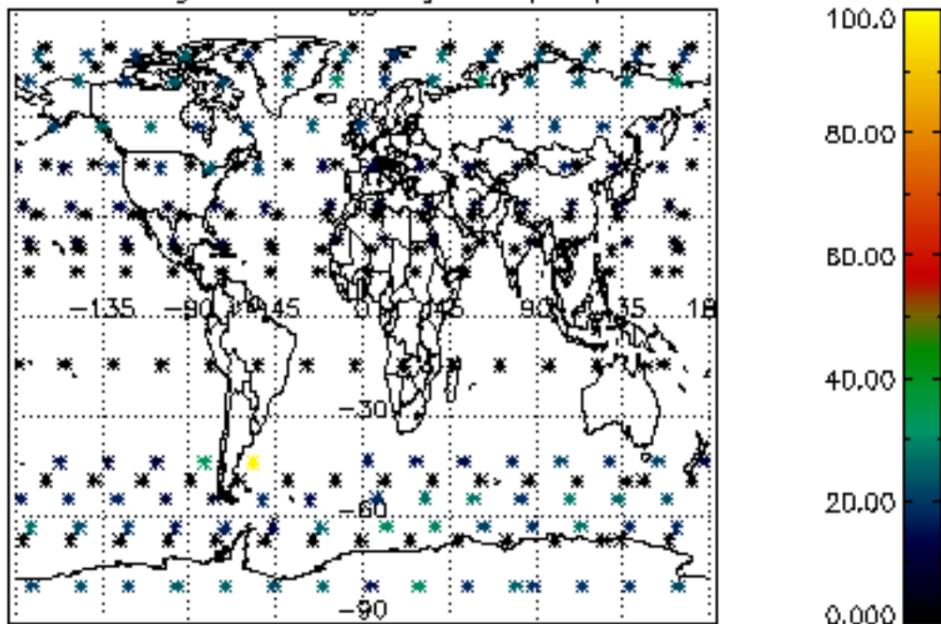




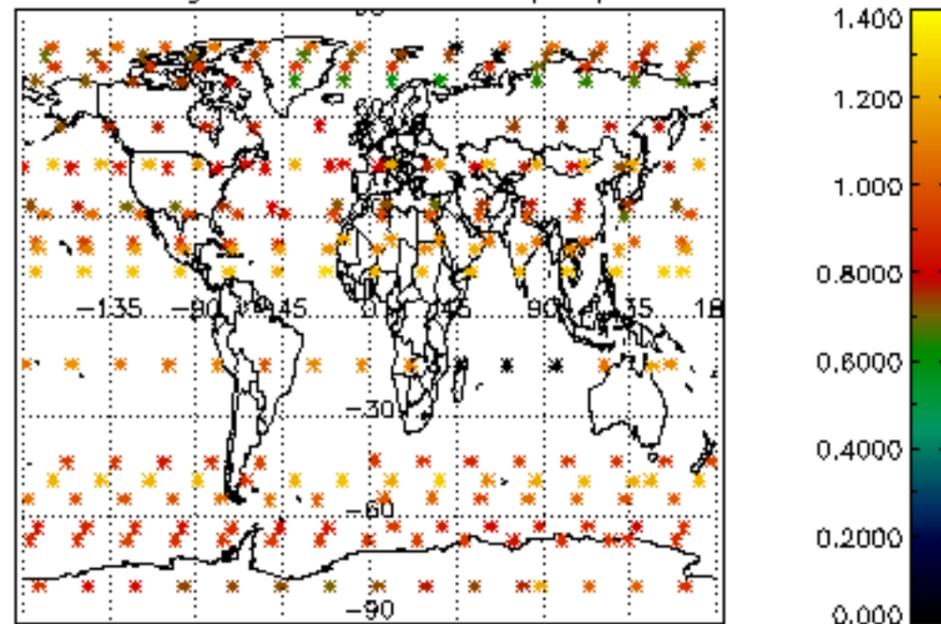




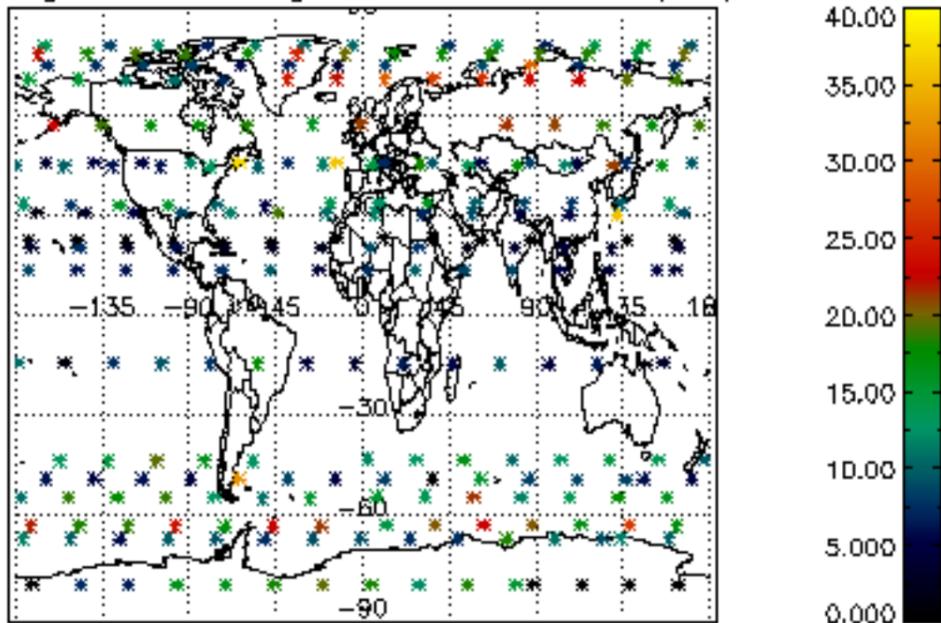
Percentage of cosmic ray hits per profile



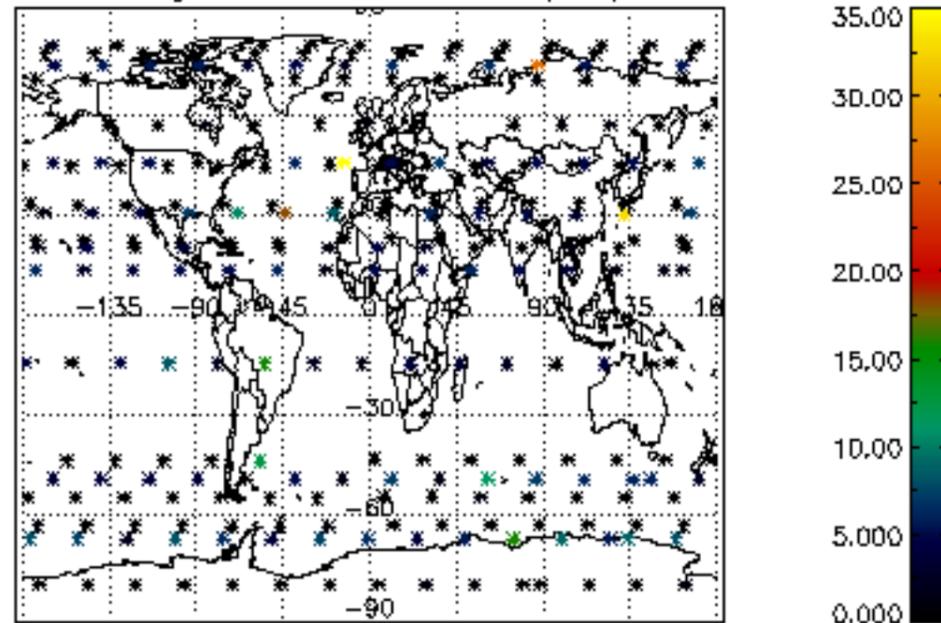
Percentage of datation errors per profile



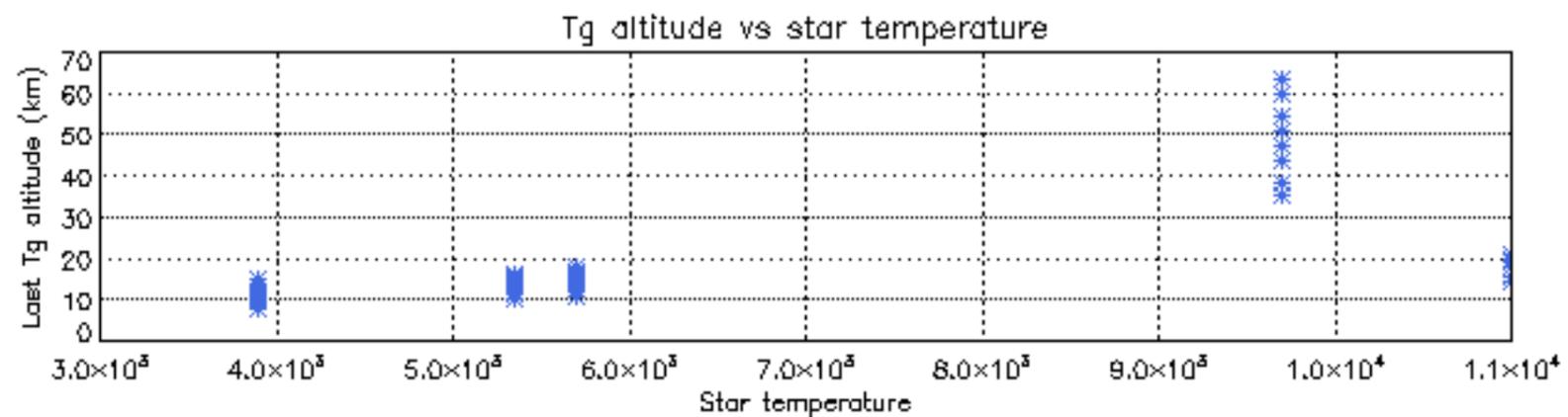
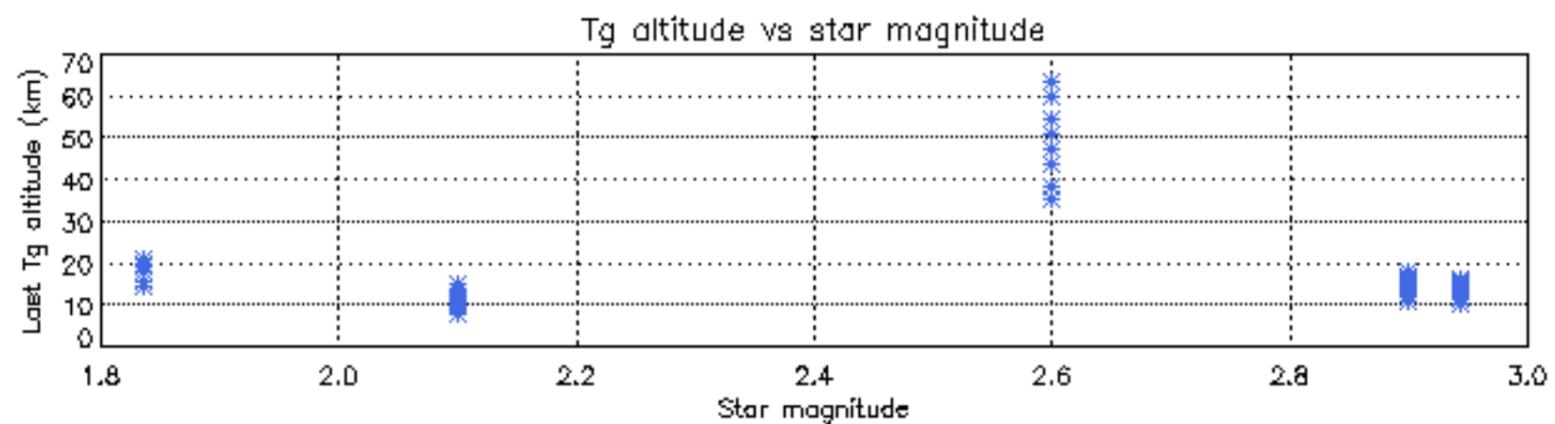
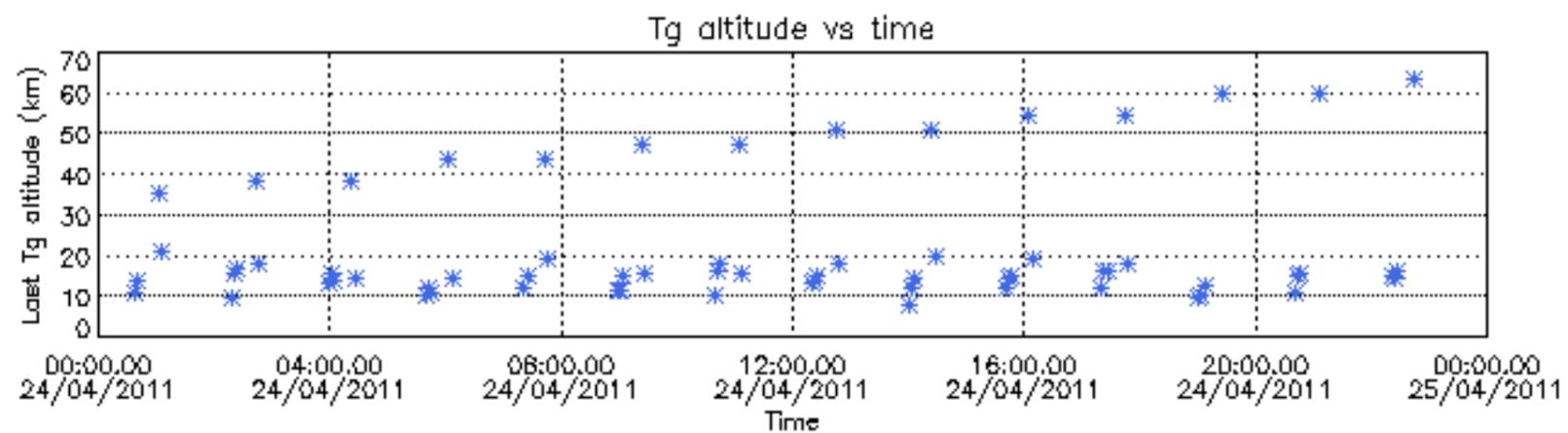
Percentage of star falling outside central band per profile



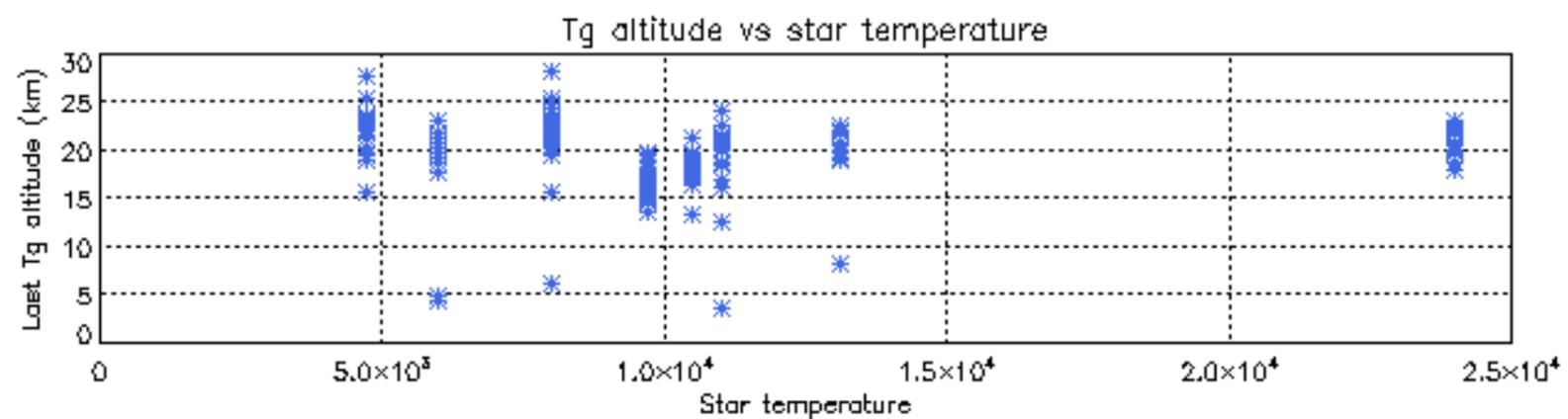
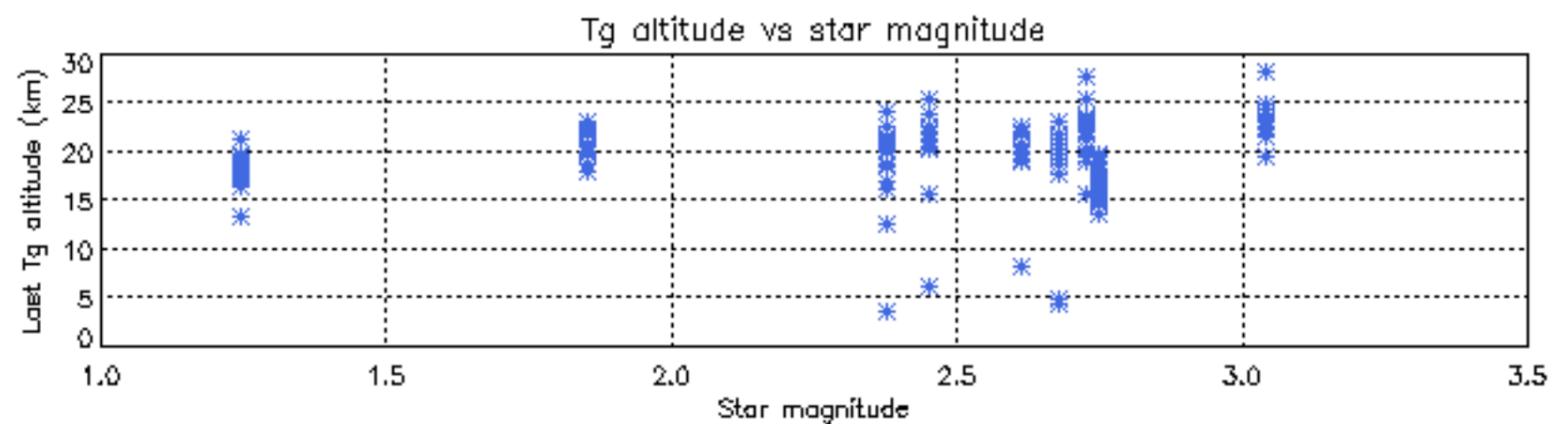
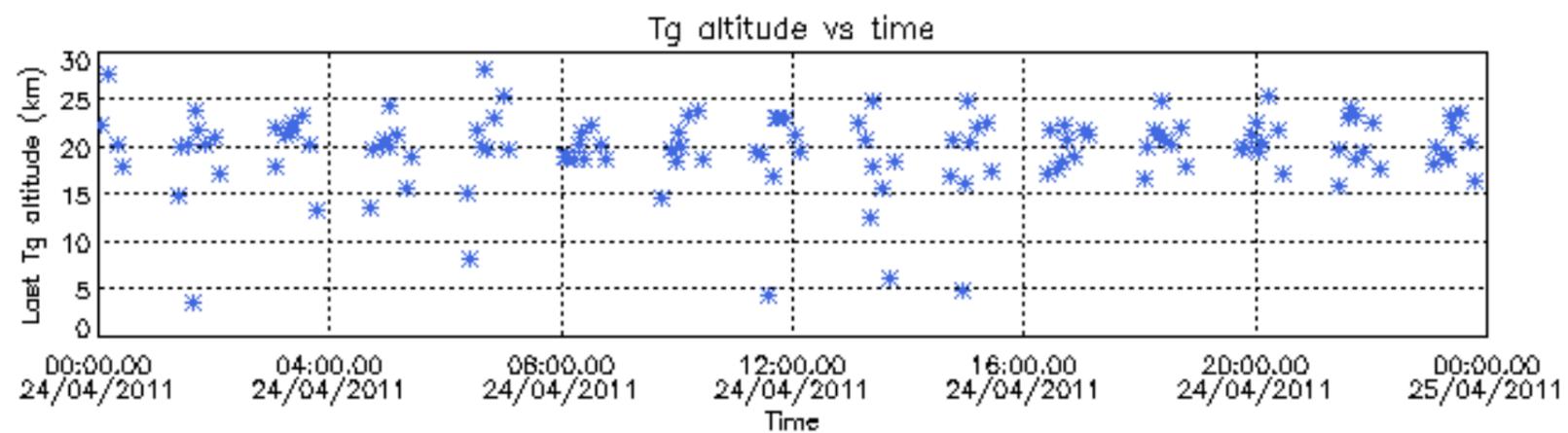
Percentage of saturation errors per profile

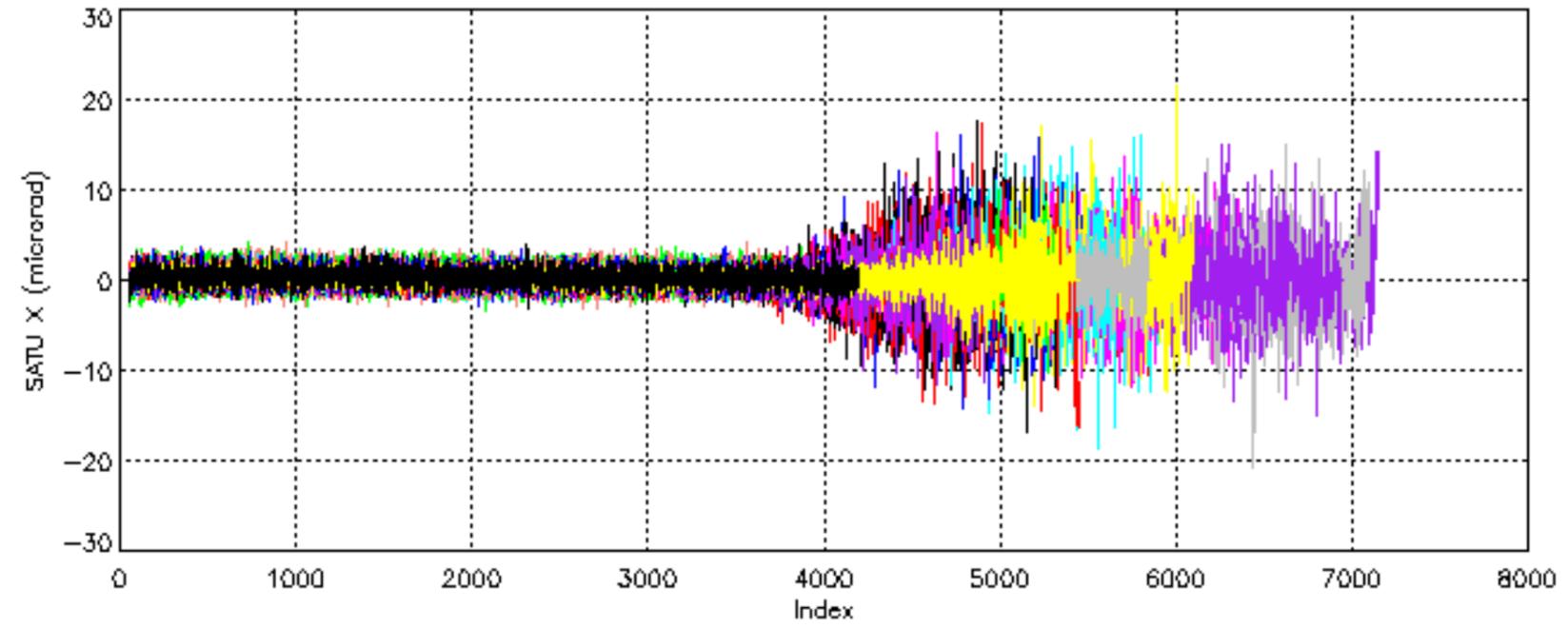


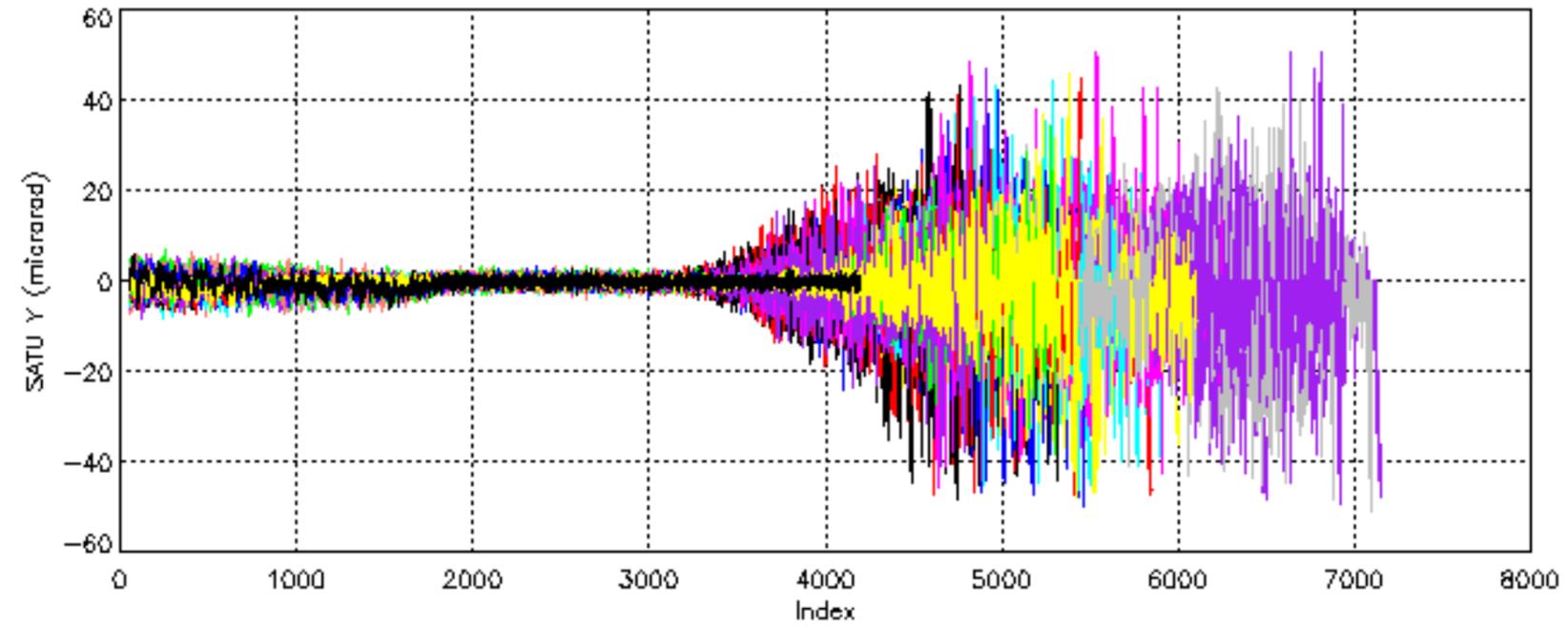
Tangent altitude at which the star is lost

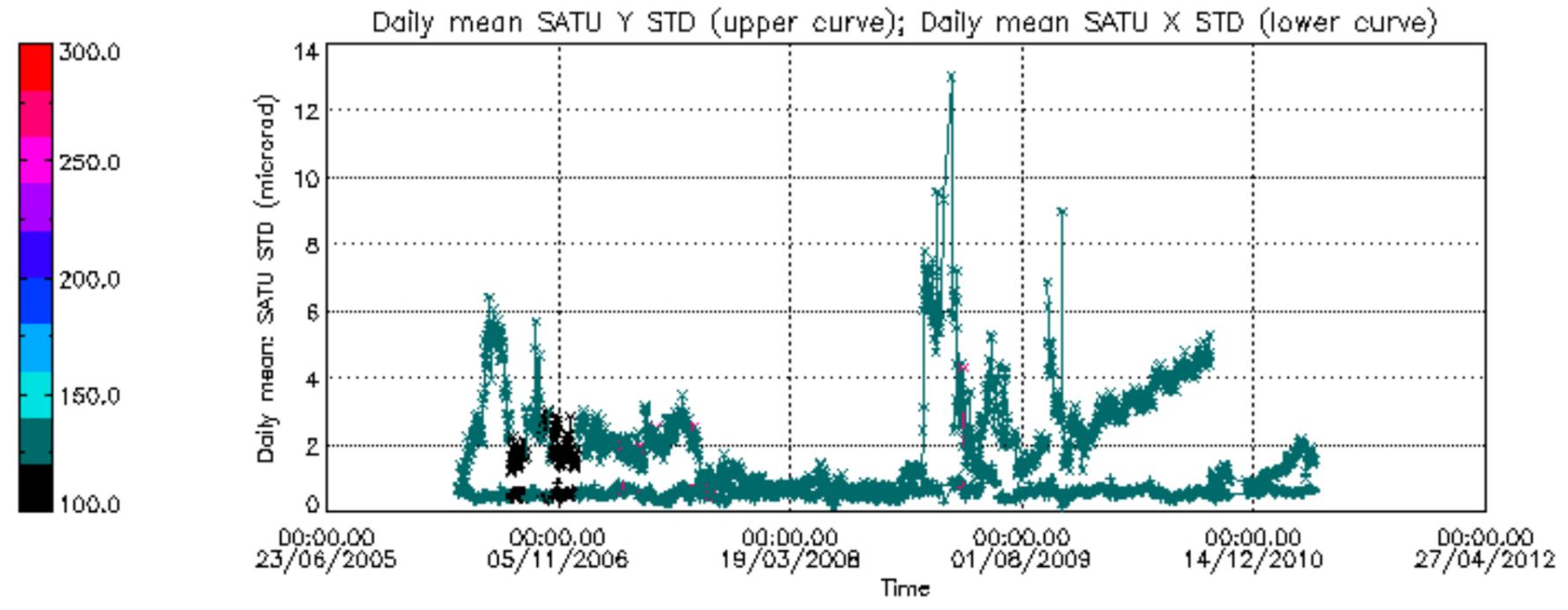


Tangent altitude at which the star is lost









9;	555.1;	24-APR-2011	07:45:31;	Dark	;	65.0;	38;	20Eps	Sgr	;	1.84;	11000;occ;	130;	0;	47837
10;	751.8;	24-APR-2011	07:48:48;	Dark	;	60.0;	25;	35Lam	Sco	;	1.62;	28000;occ;	120;	0;	47837
11;	959.9;	24-APR-2011	07:52:16;	Dark	;	69.5;	75;	26Eps	Sco	;	2.29;	4250;occ;	139;	0;	47837
12;	1203.2;	24-APR-2011	07:56:19;	Dark	;	70.0;	16;	21Alp	Sco	;	1.02;	3000;occ;	140;	0;	47837
13;	1358.2;	24-APR-2011	07:58:54;	Dark	;	70.0;	80;	7Del	Sco	;	2.32;	30000;occ;	140;	0;	47837
14;	1569.4;	24-APR-2011	08:02:26;	Bright;	;	47.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	94;	0;	47837	
15;	1723.1;	24-APR-2011	08:04:59;	Bright;	;	12.5;	104;	27Bet	Lib	;	2.61;	13100;occ;	25;	0;	47837
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2;	2239.4;	24-APR-2011	08:13:36;	Bright;	;	43.0;	111;	8Eta	Boo	;	2.68;	6000;occ;	86;	0;	47837
3;	2494.3;	24-APR-2011	08:17:51;	Bright;	;	50.0;	83;			;	2.38;	11000;occ;	100;	0;	47837
4;	2666.8;	24-APR-2011	08:20:43;	Bright;	;	45.0;	180;	27Gam	Boo	;	3.04;	8000;occ;	90;	0;	47837
5;	2779.2;	24-APR-2011	08:22:35;	Bright;	;	41.0;	39;	85Eta	UMa	;	1.85;	24000;occ;	82;	0;	47837
6;	3248.3;	24-APR-2011	08:30:25;	Bright;	;	45.5;	119;	14Eta	Dra	;	2.73;	4700;occ;	91;	0;	47837
7;	3831.9;	24-APR-2011	08:40:08;	Bright;	;	42.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	84;	0;	47837
8;	4144.7;	24-APR-2011	08:45:21;	Bright;	;	54.5;	19;	50Alp	Cyg	;	1.25;	10500;occ;	109;	0;	47837
9;	4441.2;	24-APR-2011	08:50:17;	Dark	;	69.0;	92;	53Eps	Cyg	;	2.50;	4500;occ;	138;	0;	47837
10;	4944.1;	24-APR-2011	08:58:40;	Dark	;	57.0;	61;	8Eps	Peg	;	2.10;	3900;occ;	114;	0;	47837
11;	5091.7;	24-APR-2011	09:01:08;	Dark	;	51.5;	162;	34Alp	Aqr	;	2.94;	5350;occ;	103;	0;	47837
12;	5281.7;	24-APR-2011	09:04:18;	Dark	;	54.0;	154;	22Bet	Aqr	;	2.90;	5700;occ;	108;	0;	47837
13;	5448.3;	24-APR-2011	09:07:05;	Dark	;	59.0;	0;			;	0.00;	0;occ;	118;	0;	47837
14;	6386.6;	24-APR-2011	09:22:43;	Dark	;	51.0;	103;	38Zet	Sgr	;	2.60;	9700;occ;	102;	0;	47838
15;	6570.5;	24-APR-2011	09:25:47;	Dark	;	69.0;	38;	20Eps	Sgr	;	1.84;	11000;occ;	138;	0;	47838
16;	6766.8;	24-APR-2011	09:29:03;	Dark	;	60.0;	25;	35Lam	Sco	;	1.62;	28000;occ;	120;	0;	47838
17;	6974.9;	24-APR-2011	09:32:31;	Dark	;	66.0;	75;	26Eps	Sco	;	2.29;	4250;occ;	132;	0;	47838
18;	7217.8;	24-APR-2011	09:36:34;	Dark	;	74.0;	16;	21Alp	Sco	;	1.02;	3000;occ;	148;	0;	47838
19;	7372.5;	24-APR-2011	09:39:09;	Dark	;	65.5;	80;	7Del	Sco	;	2.32;	30000;occ;	131;	0;	47838
20;	7583.7;	24-APR-2011	09:42:40;	Bright;	;	50.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	101;	0;	47838	
21;	7737.0;	24-APR-2011	09:45:13;	Bright;	;	52.0;	104;	27Bet	Lib	;	2.61;	13100;occ;	104;	0;	47838
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3;	2493.5;	24-APR-2011	09:58:04;	Bright;	;	51.5;	83;			;	2.38;	11000;occ;	103;	0;	47838
4;	2666.2;	24-APR-2011	10:00:56;	Bright;	;	45.0;	180;	27Gam	Boo	;	3.04;	8000;occ;	90;	0;	47838
5;	2778.6;	24-APR-2011	10:02:49;	Bright;	;	40.5;	39;	85Eta	UMa	;	1.85;	24000;occ;	81;	0;	47838
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7;	3831.5;	24-APR-2011	10:20:22;	Bright;	;	40.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	80;	0;	47838
8;	4144.2;	24-APR-2011	10:25:35;	Bright;	;	54.5;	19;	50Alp	Cyg	;	1.25;	10500;occ;	109;	0;	47838
9;	4441.2;	24-APR-2011	10:30:31;	Dark	;	68.0;	92;	53Eps	Cyg	;	2.50;	4500;occ;	136;	0;	47838
10;	4944.6;	24-APR-2011	10:38:55;	Dark	;	59.5;	61;	8Eps	Peg	;	2.10;	3900;occ;	119;	0;	47838
11;	5092.4;	24-APR-2011	10:41:23;	Dark	;	47.0;	162;	34Alp	Aqr	;	2.94;	5350;occ;	94;	0;	47838
12;	5282.5;	24-APR-2011	10:44:33;	Dark	;	52.0;	154;	22Bet	Aqr	;	2.90;	5700;occ;	104;	0;	47838
13;	5449.2;	24-APR-2011	10:47:19;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	47838
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16;	6767.8;	24-APR-2011	11:09:18;	Dark	;	65.5;	25;	35Lam	Sco	;	1.62;	28000;occ;	131;	0;	47839
17;	6975.8;	24-APR-2011	11:12:46;	Dark	;	64.5;	75;	26Eps	Sco	;	2.29;	4250;occ;	129;	0;	47839
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19;	7372.8;	24-APR-2011	11:19:23;	Dark	;	68.0;	80;	7Del	Sco	;	2.32;	30000;occ;	136;	0;	47839
20;	7583.8;	24-APR-2011	11:22:54;	Bright;	;	46.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	93;	0;	47839	
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4;	2665.5;	24-APR-2011	11:41:10;	Bright;	;	44.0;	180;	27Gam	Boo	;	3.04;	8000;occ;	88;	0;	47839
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7;	3831.7;	24-APR-2011	12:00:36;	Bright;	;	41.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	82;	0;	47839
8;	4143.9;	24-APR-2011	12:05:48;	Bright;	;	54.0;	19;	50Alp	Cyg	;	1.25;	10500;occ;	108;	0;	47839
9;	4441.3;	24-APR-2011	12:10:46;	Dark	;	68.0;	92;	53Eps	Cyg	;	2.50;	4500;occ;	136;	0;	47839
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11;	5092.7;	24-APR-2011	12:21:37;	Dark	;	49.5;	162;	34Alp	Aqr	;	2.94;	5350;occ;	99;	0;	47839
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16;	6768.7;	24-APR-2011	12:49:33;	Dark	;	68.5;	25;	35Lam	Sco	;	1.62;	28000;occ;	137;	0;	47840
17;	6976.7;	24-APR-2011	12:53:01;	Dark	;	64.5;	75;	26Eps	Sco	;	2.29;	4250;occ;	129;	0;	47840

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4; 2492.1; 24-APR-2011 13:18:30; Bright; 57.5; 83; ; 2.38; 11000;occ; 115; 0;47840
5; 2665.0; 24-APR-2011 13:21:23; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;47840
6; 2778.2; 24-APR-2011 13:23:16; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;47840
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9; 4144.1; 24-APR-2011 13:46:02; Bright; 54.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 109; 0;47840
10; 4441.3; 24-APR-2011 13:50:59; Dark ; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;47840
11; 4945.9; 24-APR-2011 13:59:24; Dark ; 63.5; 61; 8Eps Peg ; 2.10; 3900;occ; 127; 0;47840
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17; 6770.1; 24-APR-2011 14:29:48; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;47841
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19; 7219.7; 24-APR-2011 14:37:18; Dark ; 77.0; 16; 21Alp Sco ; 1.02; 3000;occ; 154; 0;47841
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