

GOMOS Daily Report 22-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	25APR2009 05:43:25
Data source version	GOMOS/5.00
Start time of products	22APR2009 00:18:25
Stop time of products	22APR2009 23:06:09
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

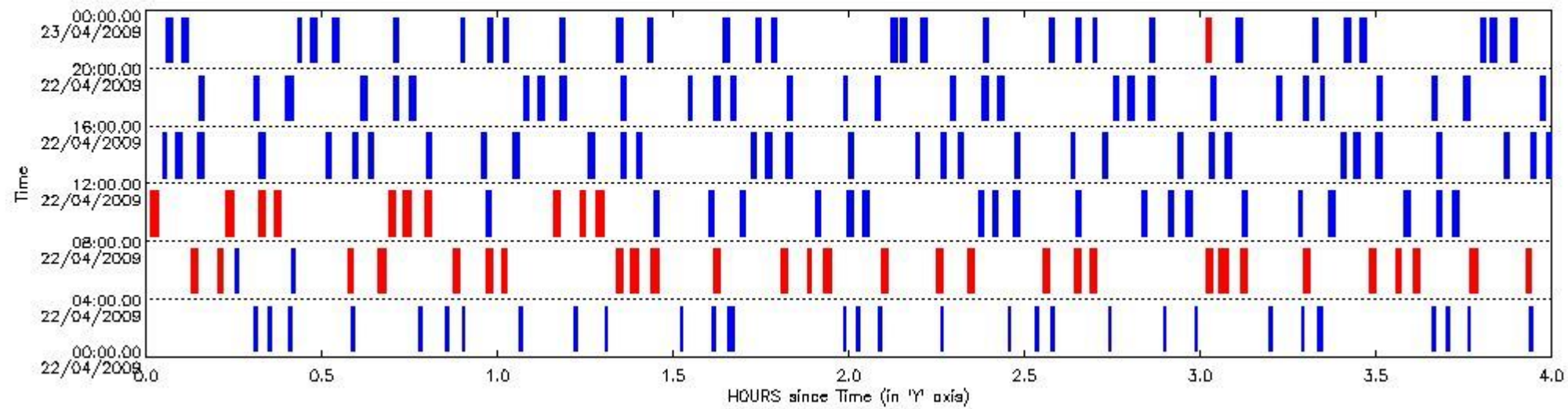
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
22-APR-2009 04:07:46	8EtaBoo	111	37347
22-APR-2009 04:12:20		83	37347
22-APR-2009 04:34:21	5AlpCep	89	37347
22-APR-2009 04:39:38	50AlpCyg	19	37347
22-APR-2009 04:52:27	8EpsPeg	61	37347
22-APR-2009 04:57:55	22BetAqr	154	37347
22-APR-2009 05:00:35	DSA1038	0	37347
22-APR-2009 05:20:17	AlpAra	147	37348
22-APR-2009 05:22:36	35LamSco	25	37348
22-APR-2009 05:26:14	26EpsSco	75	37348
22-APR-2009 05:36:54	9Alp2Lib	122	37348
22-APR-2009 05:48:21	8EtaBoo	111	37348
22-APR-2009 05:52:55		83	37348
22-APR-2009 05:55:43	27GamBoo	180	37348
22-APR-2009 06:05:28	14EtaDra	119	37348

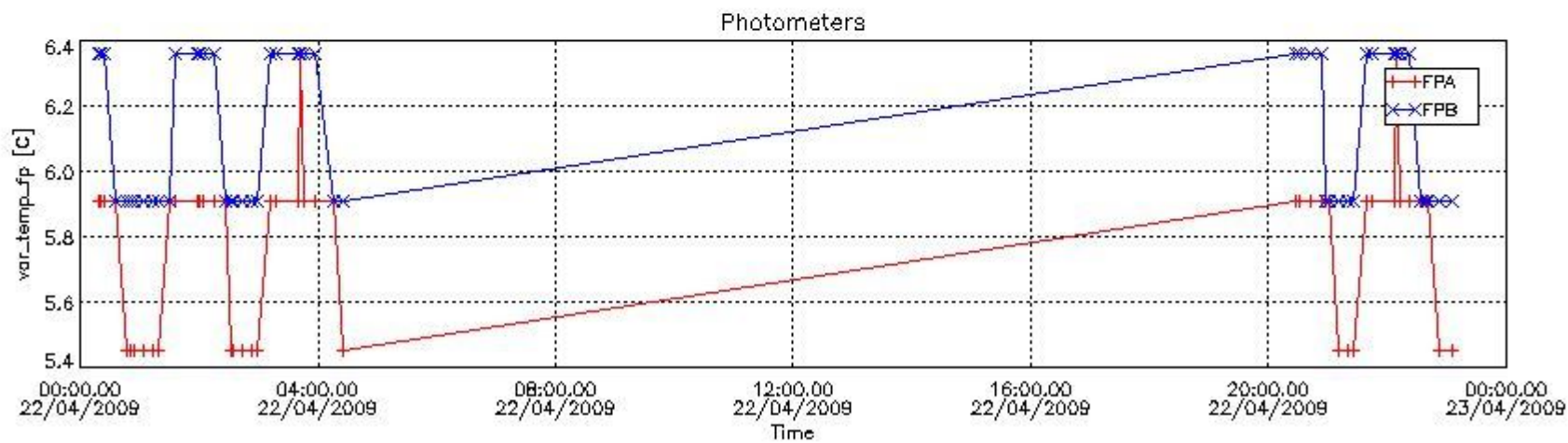
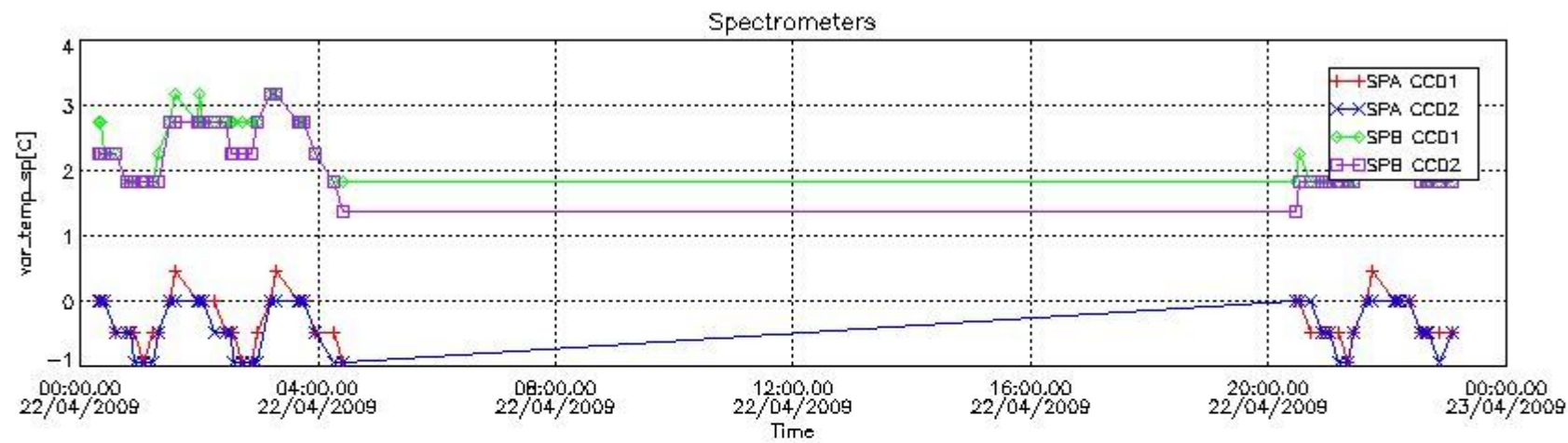
22-APR-2009 06:14:57	5AlpCep	89	37348
22-APR-2009 06:20:13	50AlpCyg	19	37348
22-APR-2009 06:33:03	8EpsPeg	61	37348
22-APR-2009 06:38:32	22BetAqr	154	37348
22-APR-2009 06:41:12	DSA1038	0	37348
22-APR-2009 07:00:53	AlpAra	147	37349
22-APR-2009 07:03:13	35LamSco	25	37349
22-APR-2009 07:06:50	26EpsSco	75	37349
22-APR-2009 07:17:30	9Alp2Lib	122	37349
22-APR-2009 07:28:57	8EtaBoo	111	37349
22-APR-2009 07:33:30		83	37349
22-APR-2009 07:36:18	27GamBoo	180	37349
22-APR-2009 07:46:04	14EtaDra	119	37349
22-APR-2009 07:55:33	5AlpCep	89	37349
22-APR-2009 08:00:49	50AlpCyg	19	37349
22-APR-2009 08:13:40	8EpsPeg	61	37349
22-APR-2009 08:19:08	22BetAqr	154	37349
22-APR-2009 08:21:49	DSA1038	0	37349
22-APR-2009 08:41:30	AlpAra	147	37350
22-APR-2009 08:43:50	35LamSco	25	37350
22-APR-2009 08:47:27	26EpsSco	75	37350
22-APR-2009 09:09:32	8EtaBoo	111	37350
22-APR-2009 09:14:05		83	37350
22-APR-2009 09:16:54	27GamBoo	180	37350
22-APR-2009 23:00:54	5AlpCep	89	37358

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_1PNPDE20090422_001825_000000282078_00217_37345_4179.N1	22-APR-2009 00:18:25	Dark	27.500	147	Alp Ara	2.8770	26000.	55	37345	No
2	GOM_TRA_1PNPDE20090422_002043_000000352078_00217_37345_4180.N1	22-APR-2009 00:20:43	Straylight	34.500	25	35Lam Sco	1.6200	28000.	69	37345	No
3	GOM_TRA_1PNPDE20090422_002421_000000332078_00217_37345_4181.N1	22-APR-2009 00:24:21	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37345	No
4	GOM_TRA_1PNPDE20090422_003504_000000272078_00217_37345_4182.N1	22-APR-2009 00:35:04	Twi_and_stray	26.500	122	9Alp2Lib	2.7470	9700.0	53	37345	No
5	GOM_TRA_1PNPDE20090422_004633_000000262078_00217_37345_4183.N1	22-APR-2009 00:46:33	Twi_and_stray	25.500	111	8Eta Boo	2.6800	6000.0	51	37345	No
6	GOM_TRA_1PNPDE20090422_005108_000000272078_00217_37345_4184.N1	22-APR-2009 00:51:08	Twi_and_stray	27.000	83		2.3780	11000.	54	37345	No
7	GOM_TRA_1PNPDE20090422_005356_000000282078_00217_37345_4185.N1	22-APR-2009 00:53:56	Twi_and_stray	28.000	180	27Gam Boo	3.0400	8000.0	56	37345	No
8	GOM_TRA_1PNPDE20090422_010341_000000262078_00217_37345_4186.N1	22-APR-2009 01:03:41	Twi_and_stray	26.000	119	14Eta Dra	2.7270	4700.0	52	37345	No
9	GOM_TRA_1PNPDE20090422_011308_000000192078_00217_37345_4187.N1	22-APR-2009 01:13:08	Twi_and_stray	19.000	89	5Alp Cep	2.4510	8000.0	38	37345	No
10	GOM_TRA_1PNPDE20090422_011824_000000222078_00217_37345_4188.N1	22-APR-2009 01:18:24	Twi_and_stray	21.500	19	50Alp Cyg	1.2460	10500.	43	37345	No
11	GOM_TRA_1PNPDE20090422_013112_000000212078_00217_37345_4189.N1	22-APR-2009 01:31:12	Dark	20.500	61	8Eps Peg	2.1000	3900.0	41	37345	No
12	GOM_TRA_1PNPDE20090422_013640_000000242078_00217_37345_4311.N1	22-APR-2009 01:36:40	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37345	No
13	GOM_TRA_1PNPDE20090422_015901_000000282078_00218_37346_4312.N1	22-APR-2009 01:59:01	Dark	27.500	147	Alp Ara	2.8770	26000.	55	37346	No
14	GOM_TRA_1PNPDE20090422_020120_000000342078_00218_37346_4313.N1	22-APR-2009 02:01:20	Straylight	34.000	25	35Lam Sco	1.6200	28000.	68	37346	No
15	GOM_TRA_1PNPDE20090422_020458_000000332078_00218_37346_4314.N1	22-APR-2009 02:04:58	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37346	No
16	GOM_TRA_1PNPDE20090422_021540_000000262078_00218_37346_4315.N1	22-APR-2009 02:15:40	Twi_and_stray	26.000	122	9Alp2Lib	2.7470	9700.0	52	37346	No
17	GOM_TRA_1PNPDE20090422_022708_000000262078_00218_37346_4316.N1	22-APR-2009 02:27:08	Twi_and_stray	25.500	111	8Eta Boo	2.6800	6000.0	51	37346	No
18	GOM_TRA_1PNPDE20090422_023143_000000312078_00218_37346_4317.N1	22-APR-2009 02:31:43	Twi_and_stray	31.000	83		2.3780	11000.	62	37346	No
19	GOM_TRA_1PNPDE20090422_023431_000000282078_00218_37346_4318.N1	22-APR-2009 02:34:31	Twi_and_stray	27.500	180	27Gam Boo	3.0400	8000.0	55	37346	No
20	GOM_TRA_1PNPDE20090422_024416_000000262078_00218_37346_4319.N1	22-APR-2009 02:44:16	Twi_and_stray	25.500	119	14Eta Dra	2.7270	4700.0	51	37346	No
21	GOM_TRA_1PNPDE20090422_025344_000000192078_00218_37346_4320.N1	22-APR-2009 02:53:44	Twi_and_stray	18.500	89	5Alp Cep	2.4510	8000.0	37	37346	No
22	GOM_TRA_1PNPDE20090422_025900_000000222078_00218_37346_4476.N1	22-APR-2009 02:59:00	Twi_and_stray	21.500	19	50Alp Cyg	1.2460	10500.	43	37346	No
23	GOM_TRA_1PNPDE20090422_031148_000000212078_00218_37346_4477.N1	22-APR-2009 03:11:48	Dark	21.000	61	8Eps Peg	2.1000	3900.0	42	37346	No
24	GOM_TRA_1PNPDE20090422_031716_000000242078_00218_37346_4478.N1	22-APR-2009 03:17:16	Dark	23.500	154	22Bet Aqr	2.8990	5700.0	47	37346	No
25	GOM_TRA_1PNPDE20090422_033938_000000272078_00219_37347_4479.N1	22-APR-2009 03:39:38	Dark	26.500	147	Alp Ara	2.8770	26000.	53	37347	No
26	GOM_TRA_1PNPDE20090422_034157_000000342078_00219_37347_4480.N1	22-APR-2009 03:41:57	Straylight	34.000	25	35Lam Sco	1.6200	28000.	68	37347	No
27	GOM_TRA_1PNPDE20090422_034536_000000322078_00219_37347_4481.N1	22-APR-2009 03:45:36	Straylight	31.500	75	26Eps Sco	2.2910	4250.0	63	37347	No
28	GOM_TRA_1PNPDE20090422_035616_000000262078_00219_37347_4482.N1	22-APR-2009 03:56:16	Twi_and_stray	25.500	122	9Alp2Lib	2.7470	9700.0	51	37347	No
29	GOM_TRA_1PNPDE20090422_041506_000000322078_00219_37347_4483.N1	22-APR-2009 04:15:06	Twi_and_stray	32.000	180	27Gam Boo	3.0400	8000.0	64	37347	No

30	GOM_TRA_1PNPDE20090422_042451_000000312078_00219_37347_4484.N1	22-APR-2009 04:24:51	Twilight_stray	30.500	119	14Eta Dra	2.7270	4700.0	61	37347	No
31	GOM_TRA_1PNPDE20090422_202808_000000592078_00229_37357_5145.N1	22-APR-2009 20:28:08	Straylight	59.000	25	35Lam Sco	1.6200	28000.	118	37357	Yes
32	GOM_TRA_1PNPDE20090422_203144_000000642078_00229_37357_5146.N1	22-APR-2009 20:31:44	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	37357	No
33	GOM_TRA_1PNPDE20090422_204217_000000492078_00229_37357_5147.N1	22-APR-2009 20:42:17	Bright	49.000	122	9Alp2Lib	2.7470	9700.0	98	37357	No
34	GOM_TRA_1PNPDE20090422_205340_000000412078_00229_37357_5148.N1	22-APR-2009 20:53:40	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	37357	No
35	GOM_TRA_1PNPDE20090422_205810_000000522078_00229_37357_5149.N1	22-APR-2009 20:58:10	Bright	51.500	83		2.3780	11000.	103	37357	No
36	GOM_TRA_1PNPDE20090422_210059_000000472078_00229_37357_5150.N1	22-APR-2009 21:00:59	Bright	46.500	180	27Gam Boo	3.0400	8000.0	93	37357	No
37	GOM_TRA_1PNPDE20090422_211044_000000462078_00229_37357_5151.N1	22-APR-2009 21:10:44	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37357	No
38	GOM_TRA_1PNPDE20090422_212017_000000592078_00229_37357_5152.N1	22-APR-2009 21:20:17	Bright	59.000	89	5Alp Cep	2.4510	8000.0	118	37357	No
39	GOM_TRA_1PNPDE20090422_212533_000000562078_00229_37357_5153.N1	22-APR-2009 21:25:33	Bright	56.000	19	50Alp Cyg	1.2460	10500.	112	37357	No
40	GOM_TRA_1PNPDE20090422_213830_000000552078_00229_37357_5154.N1	22-APR-2009 21:38:30	Dark	54.500	61	8Eps Peg	2.1000	3900.0	109	37357	No
41	GOM_TRA_1PNPDE20090422_214401_000000522078_00229_37357_5302.N1	22-APR-2009 21:44:01	Dark	51.500	154	22Bet Aqr	2.8990	5700.0	103	37357	No
42	GOM_TRA_1PNPDE20090422_220713_000000562078_00230_37358_5303.N1	22-APR-2009 22:07:13	Straylight	55.500	40	The Sco	1.8590	7100.0	111	37358	No
43	GOM_TRA_1PNPDE20090422_220845_000000622078_00230_37358_5304.N1	22-APR-2009 22:08:45	Straylight	61.500	25	35Lam Sco	1.6200	28000.	123	37358	No
44	GOM_TRA_1PNPDE20090422_221221_000000652078_00230_37358_5305.N1	22-APR-2009 22:12:21	Straylight	65.000	75	26Eps Sco	2.2910	4250.0	130	37358	No
45	GOM_TRA_1PNPDE20090422_222253_000000502078_00230_37358_5306.N1	22-APR-2009 22:22:53	Bright	50.000	122	9Alp2Lib	2.7470	9700.0	100	37358	No
46	GOM_TRA_1PNPDE20090422_223416_000000422078_00230_37358_5307.N1	22-APR-2009 22:34:16	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	37358	No
47	GOM_TRA_1PNPDE20090422_223845_000000502078_00230_37358_5308.N1	22-APR-2009 22:38:45	Bright	50.000	83		2.3780	11000.	100	37358	No
48	GOM_TRA_1PNPDE20090422_224134_000000432078_00230_37358_5309.N1	22-APR-2009 22:41:34	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37358	No
49	GOM_TRA_1PNPDE20090422_225119_000000432078_00230_37358_5310.N1	22-APR-2009 22:51:19	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	37358	No
50	GOM_TRA_1PNPDE20090422_230609_000000662078_00230_37358_5311.N1	22-APR-2009 23:06:09	Bright	66.000	19	50Alp Cyg	1.2460	10500.	132	37358	No

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



4. Overview of dark signal processing per product

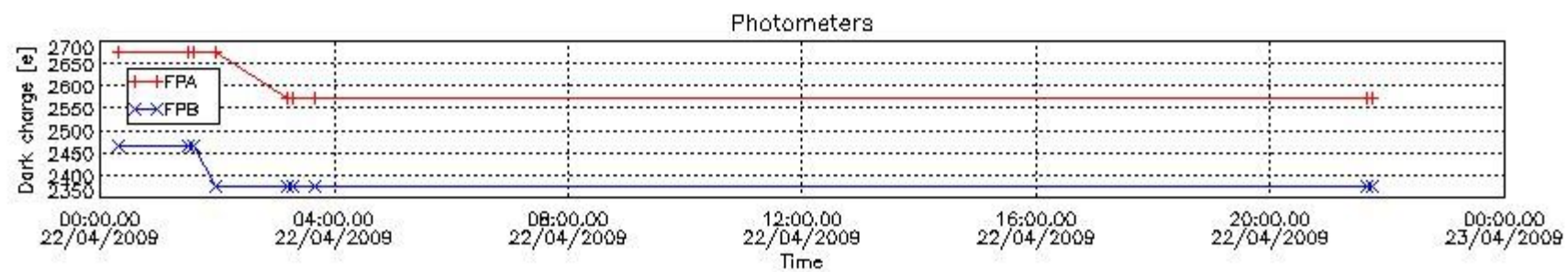
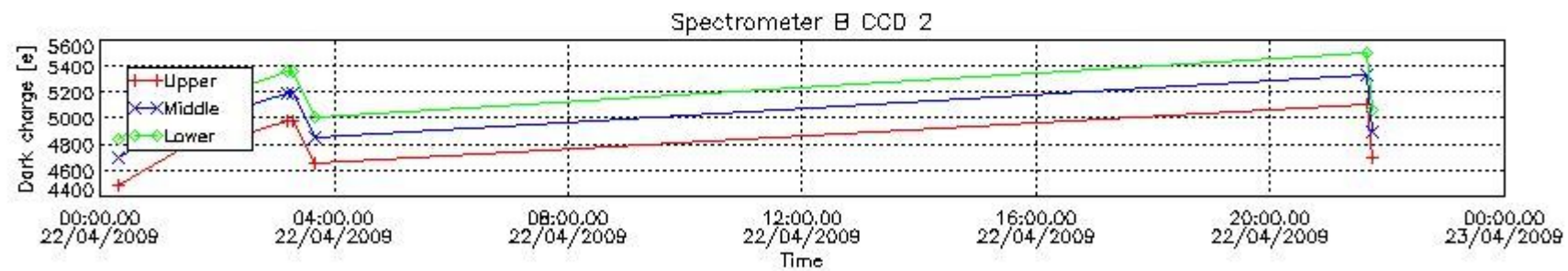
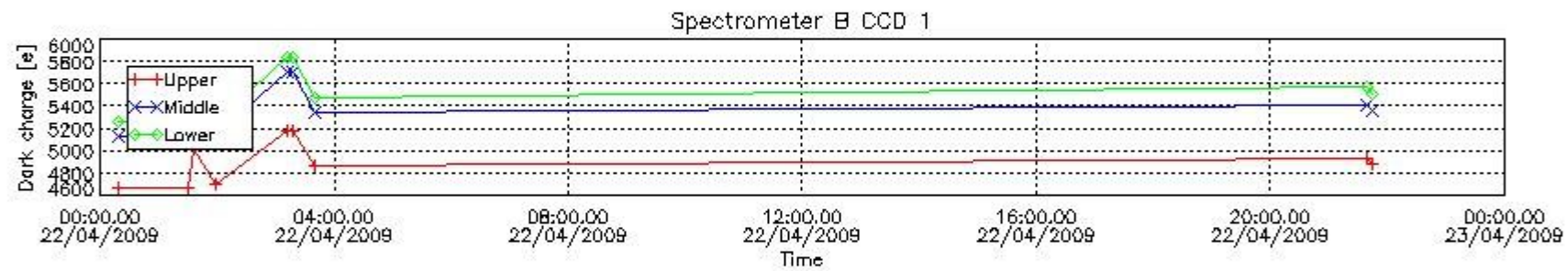
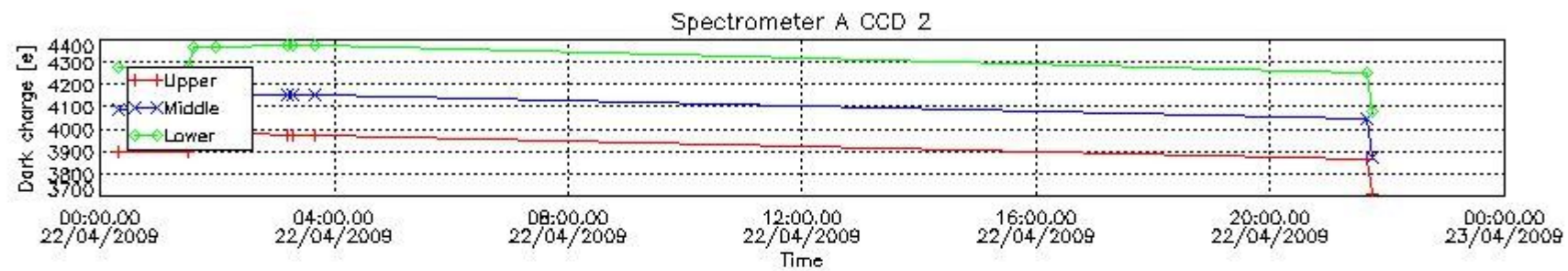
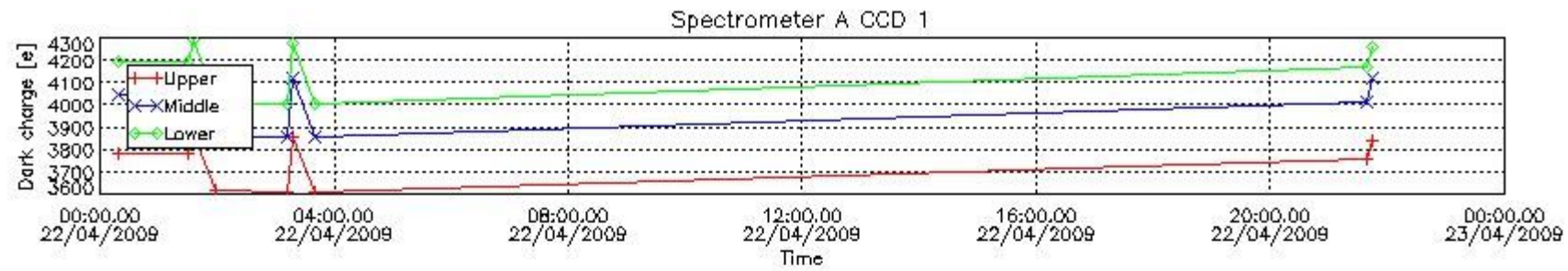
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090422_202808_000000592078_00229_37357_5145.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090422_203144_000000642078_00229_37357_5146.N1	DC map used
GOM_TRA_1PNPDE20090422_204217_000000492078_00229_37357_5147.N1	DC map used
GOM_TRA_1PNPDE20090422_205340_000000412078_00229_37357_5148.N1	DC map used
GOM_TRA_1PNPDE20090422_205810_000000522078_00229_37357_5149.N1	DC map used
GOM_TRA_1PNPDE20090422_210059_000000472078_00229_37357_5150.N1	DC map used
GOM_TRA_1PNPDE20090422_211044_000000462078_00229_37357_5151.N1	DC map used
GOM_TRA_1PNPDE20090422_212017_000000592078_00229_37357_5152.N1	DC map used
GOM_TRA_1PNPDE20090422_212533_000000562078_00229_37357_5153.N1	DC map used
GOM_TRA_1PNPDE20090422_213830_000000552078_00229_37357_5154.N1	DC map used

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



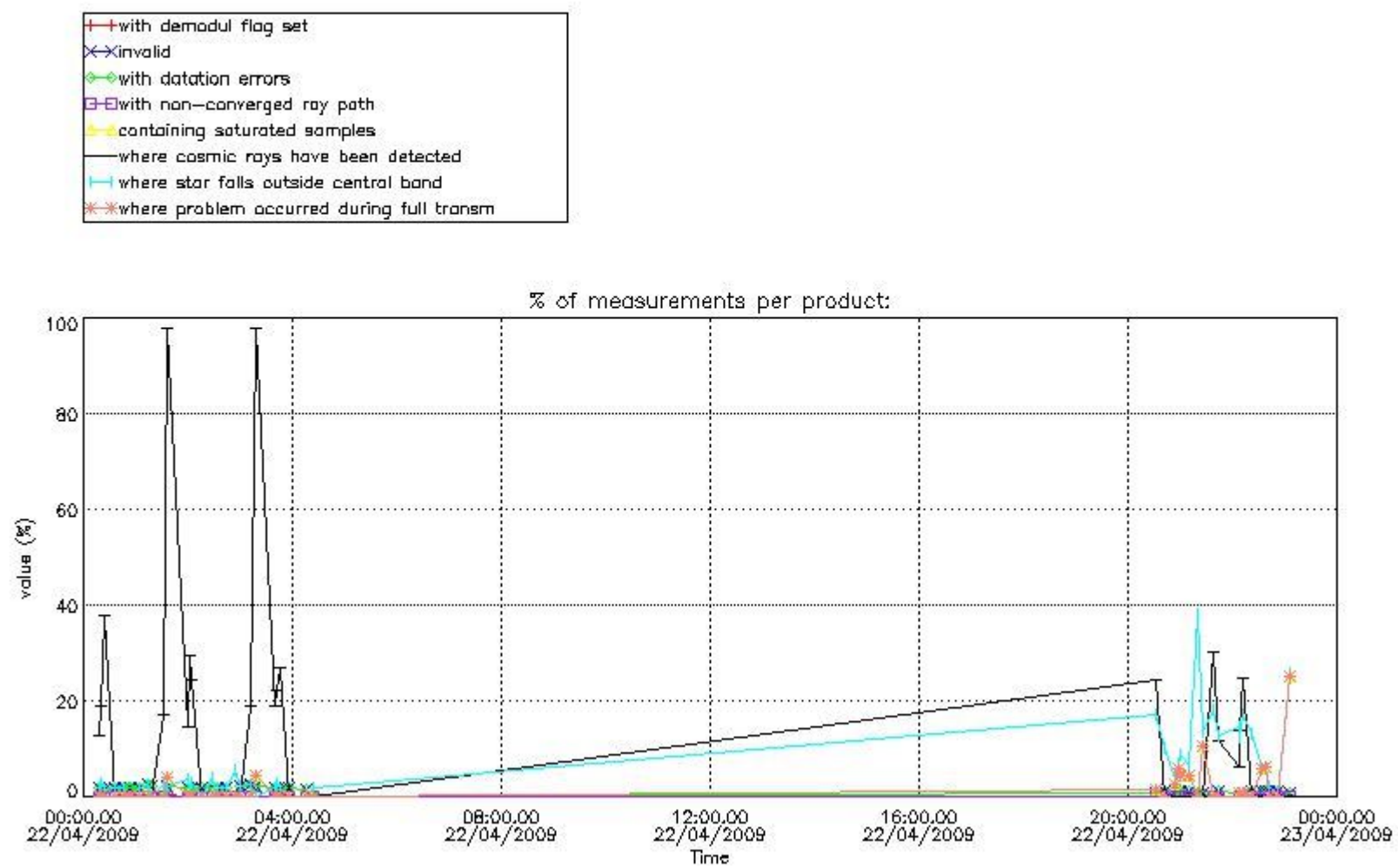
5. Demodulation flag and quality information monitoring

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.

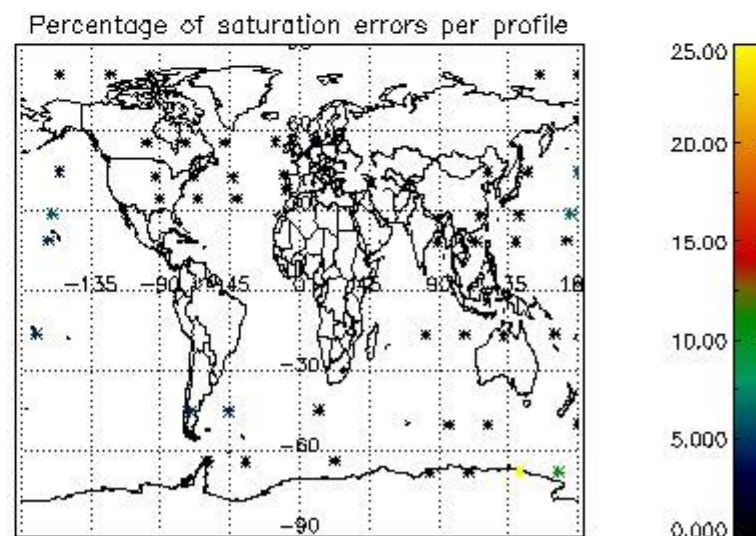
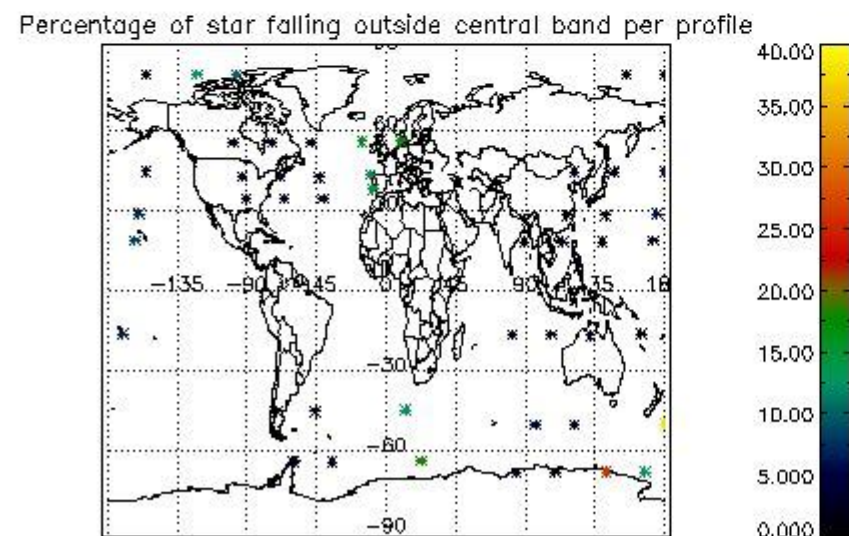
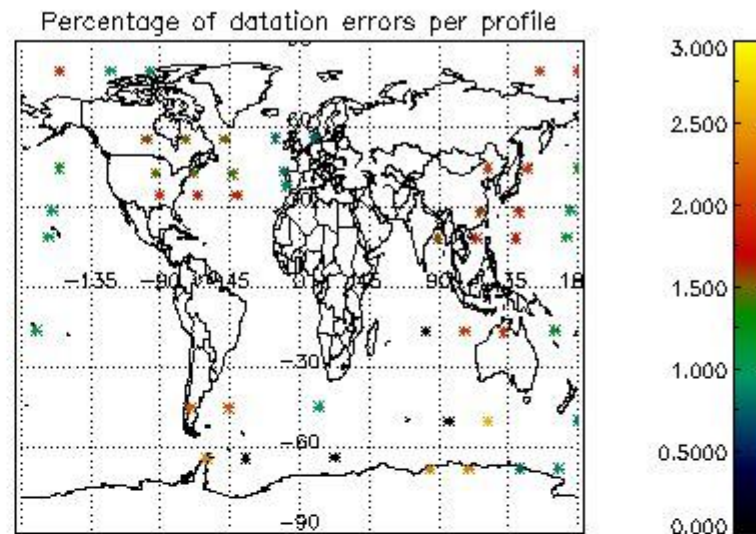
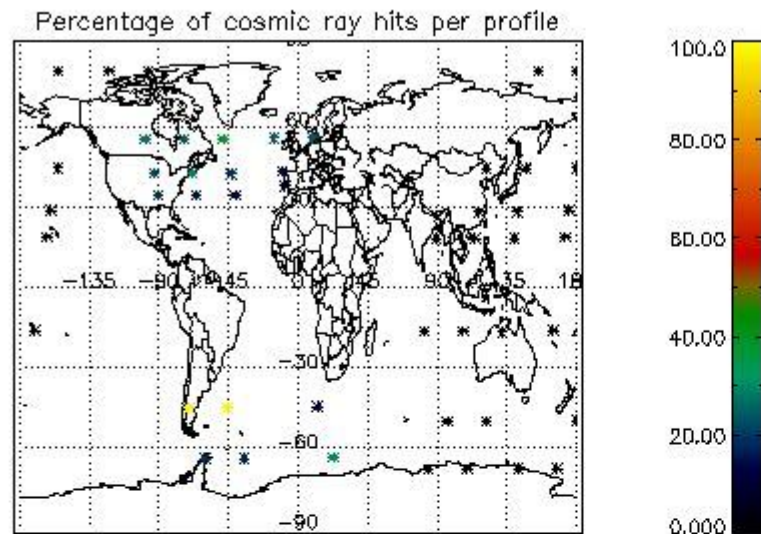
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



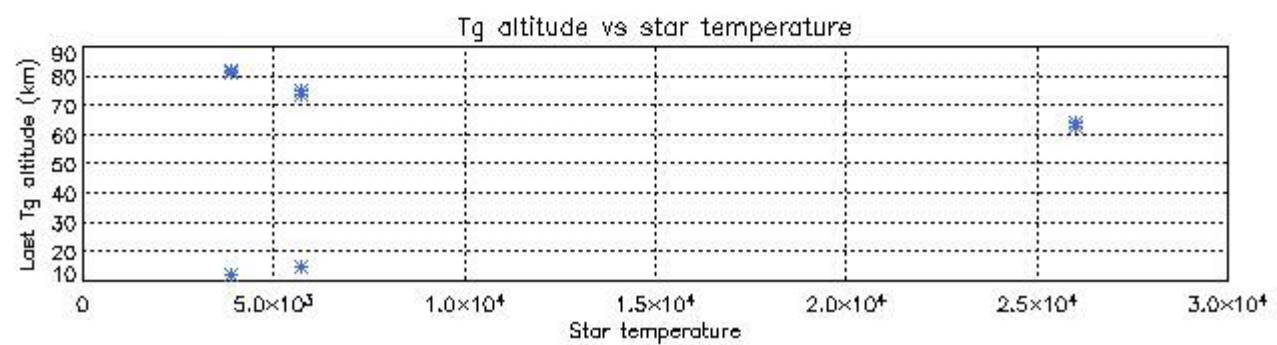
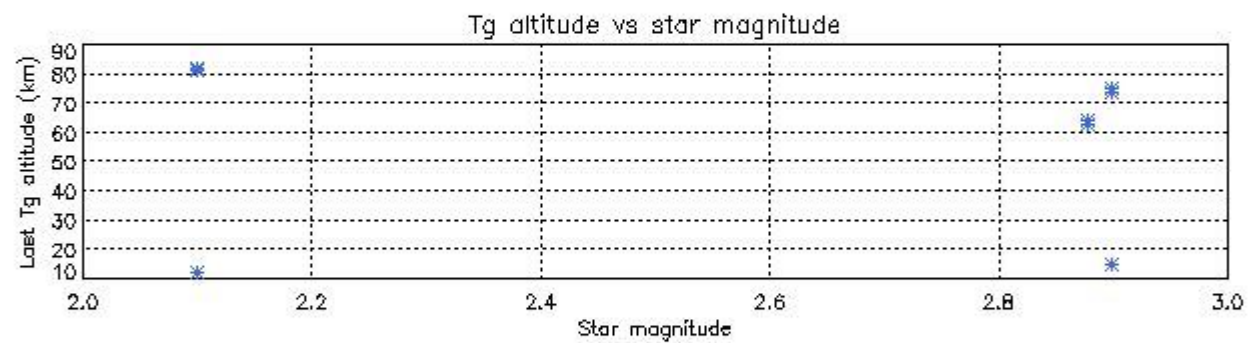
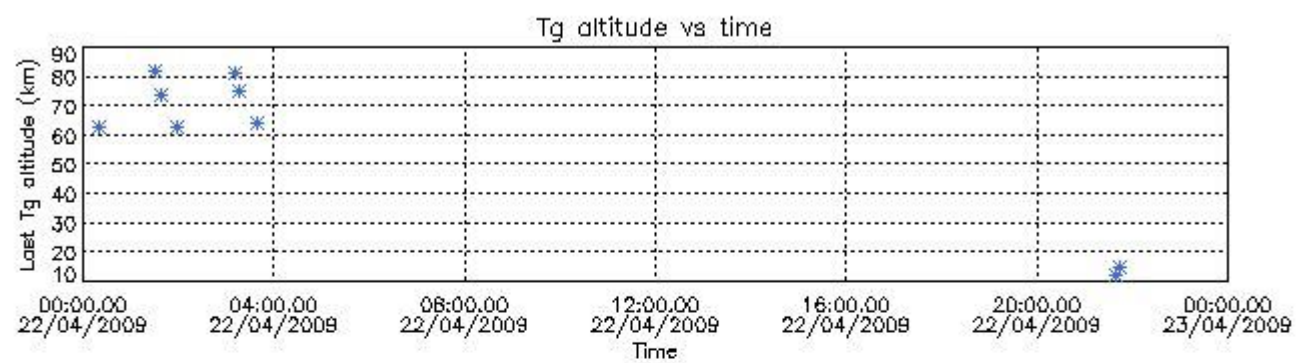
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	58.592	18.352	NaN
St. deviation:	26.613	6.5139	NaN
Maximum:	81.567	26.057	NaN
Minimum:	11.865	3.4349	NaN
Number of data:	9.0000	13.000	NaN

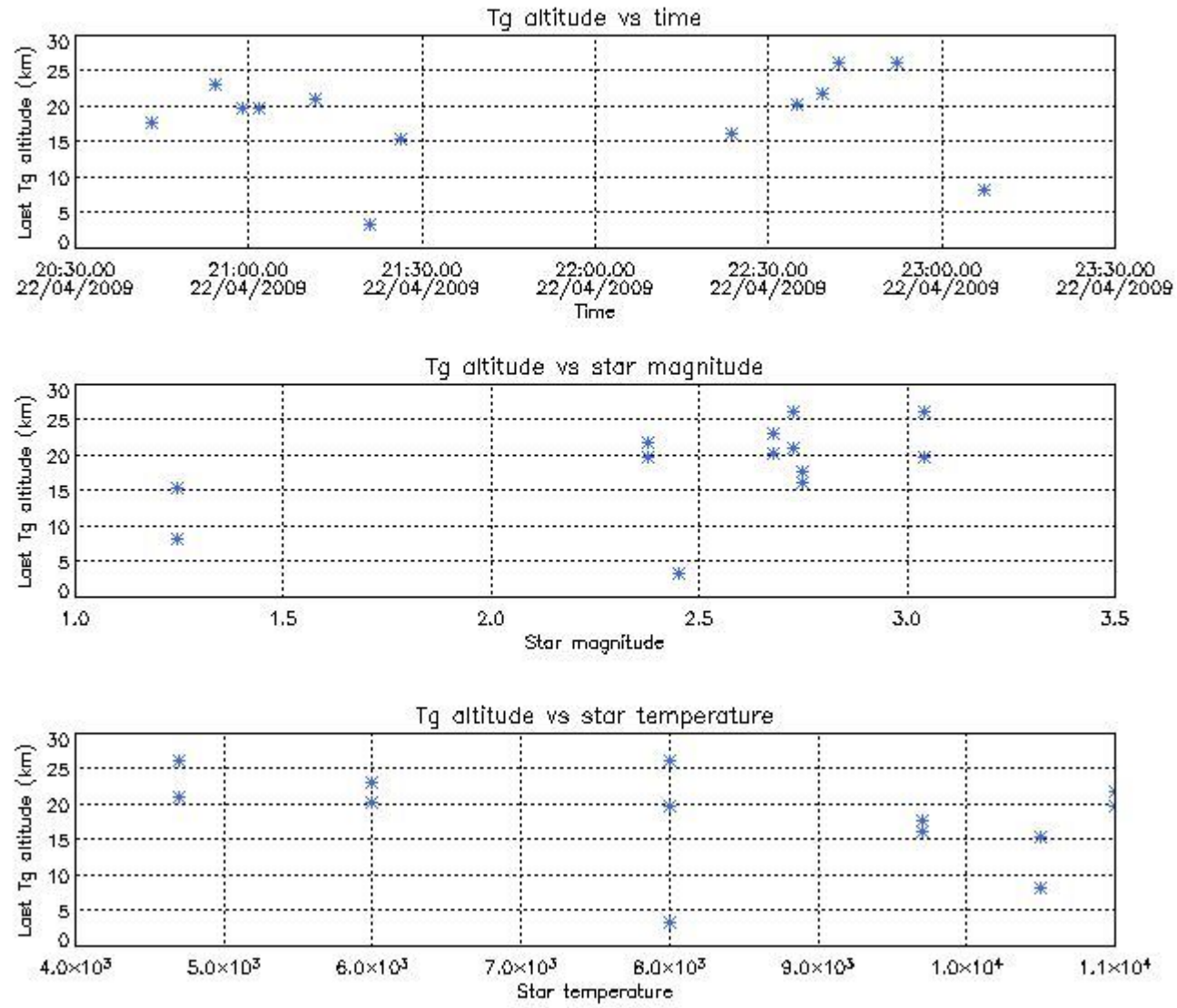
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

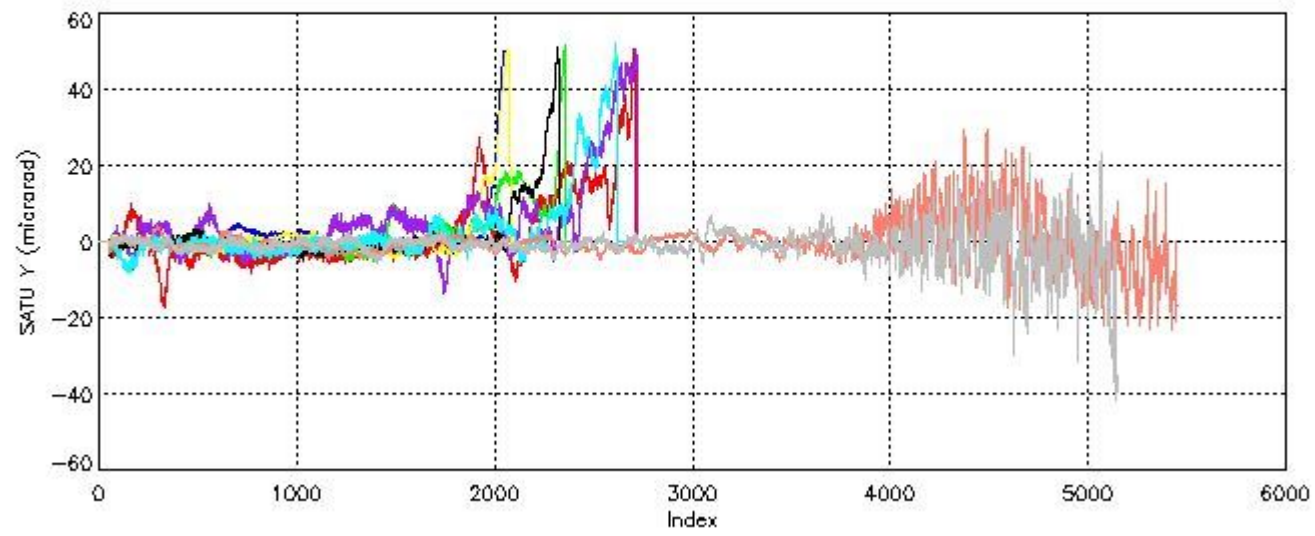
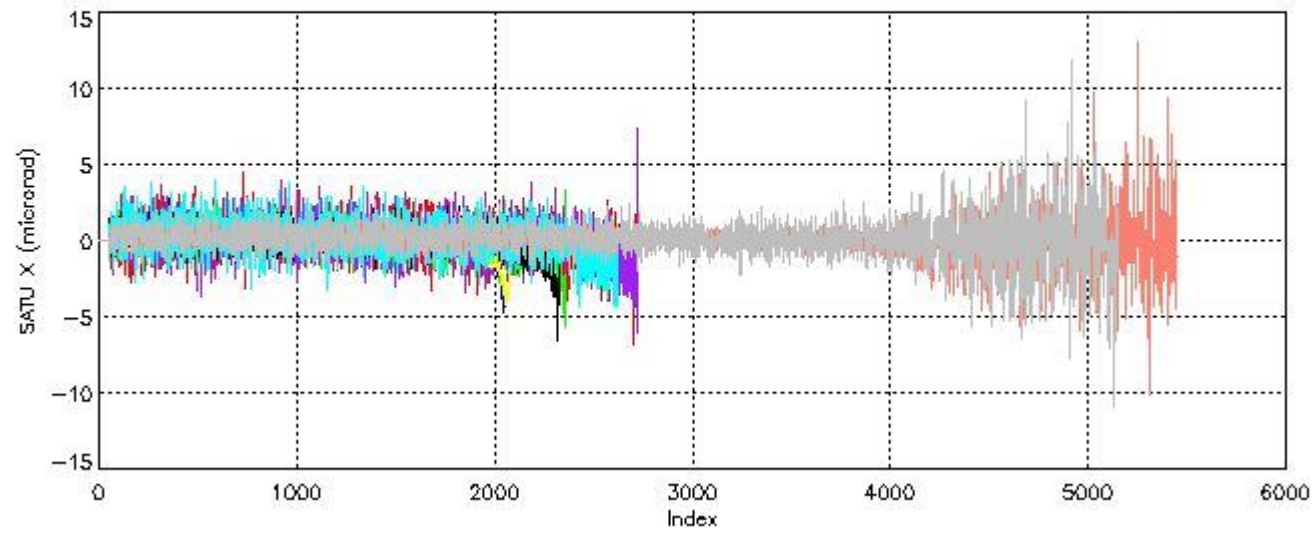


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.27098	-0.69240	0.36810	-1.0039
St. deviation:	0.67432	1.8064	0.84181	1.4421
Maximum:	4.5000	9.8000	4.8000	5.0000
Minimum:	-3.7000	-17.500	-4.3000	-9.5000

Number of data:	9950.0	9950.0	14050.	14050.
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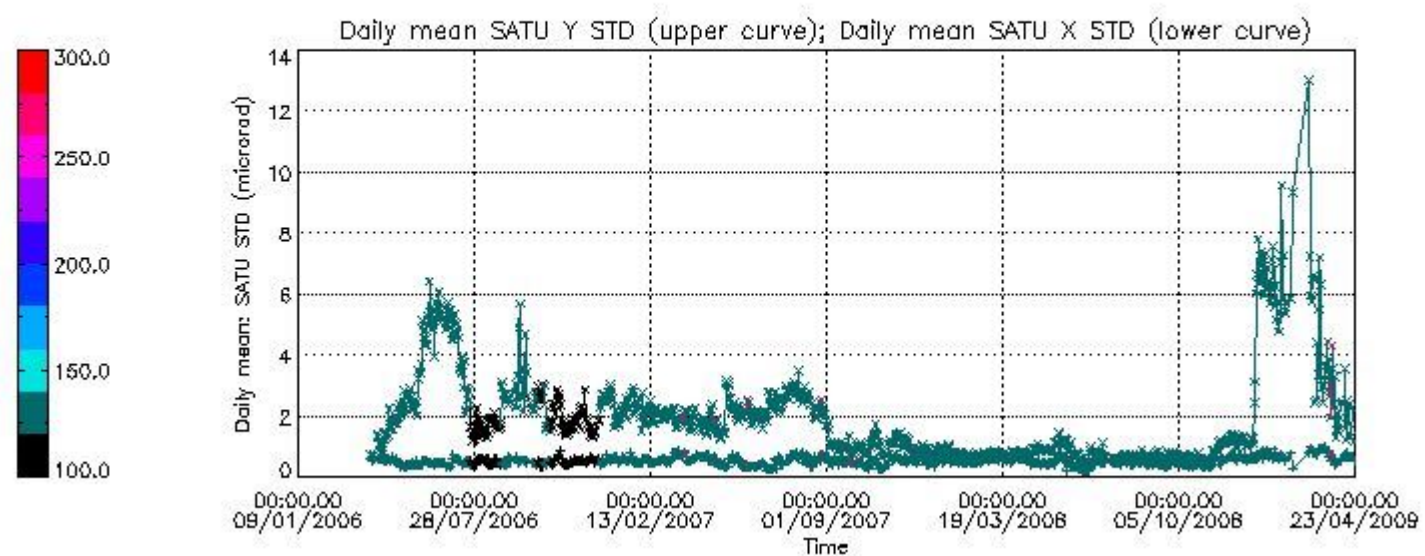
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

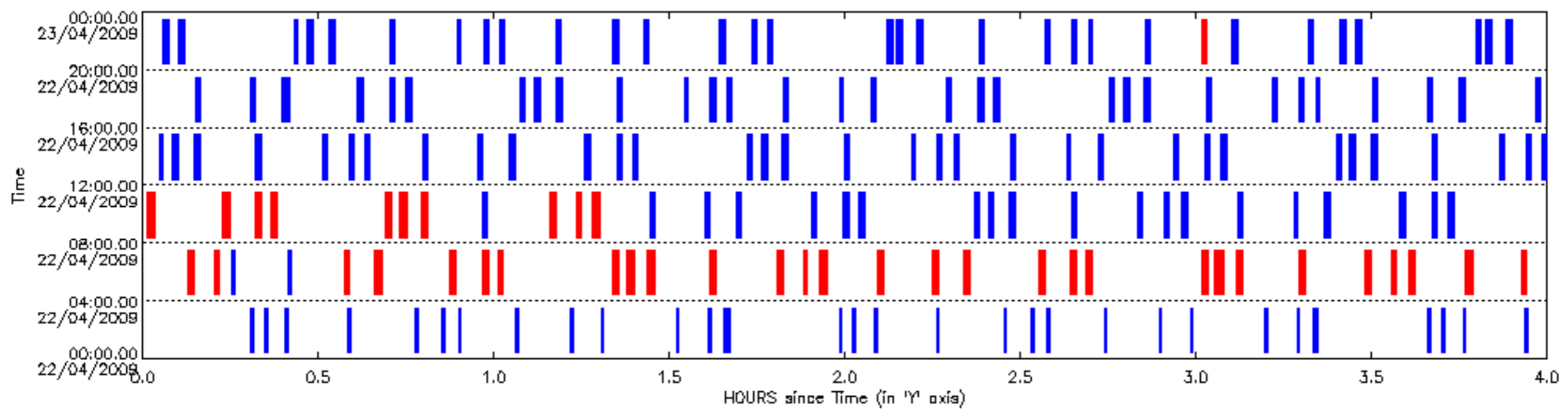
Lower curve: STD of SATU X axis

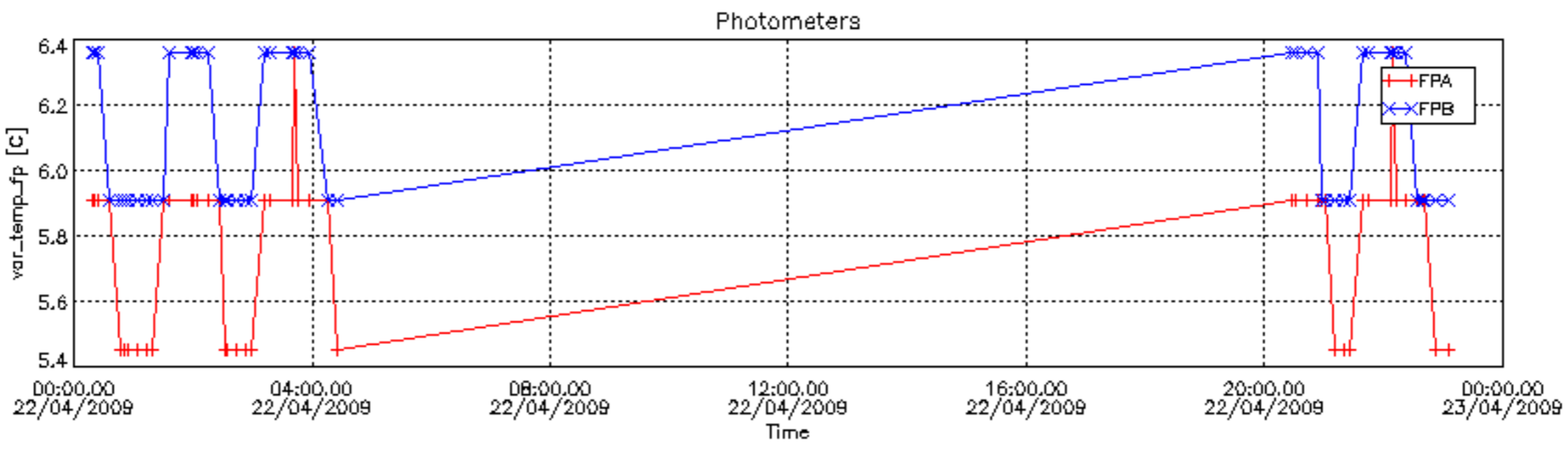
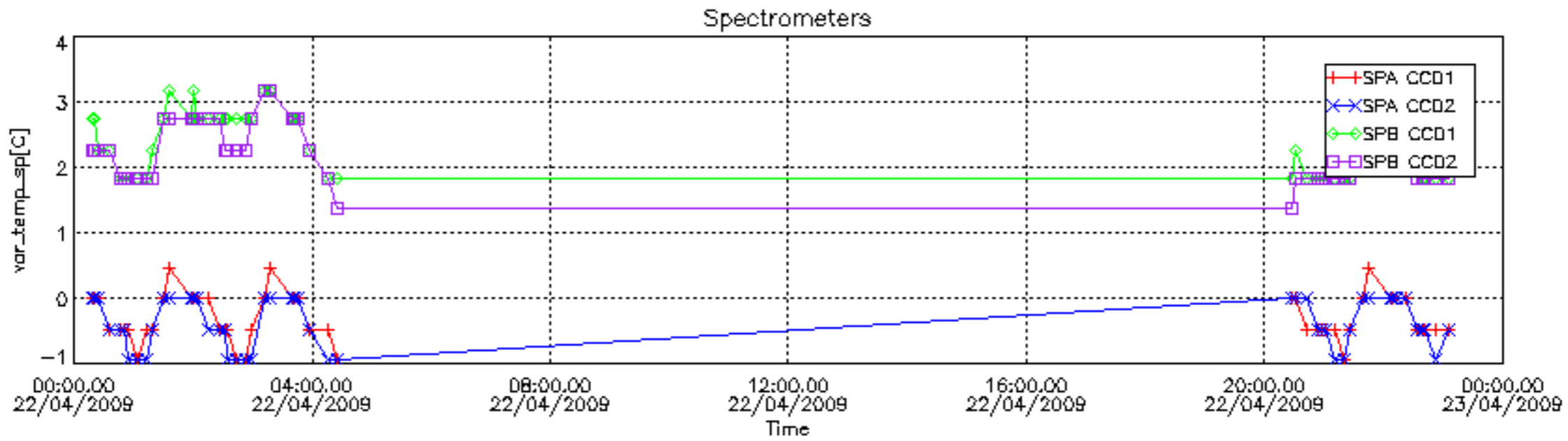


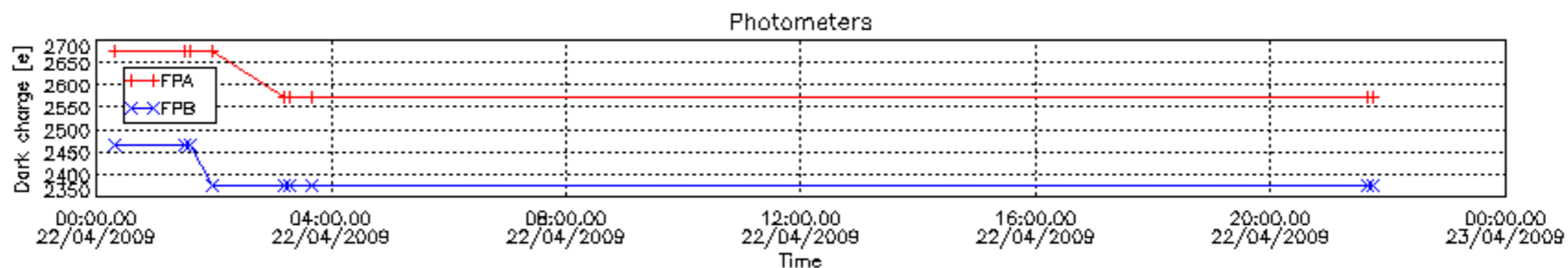
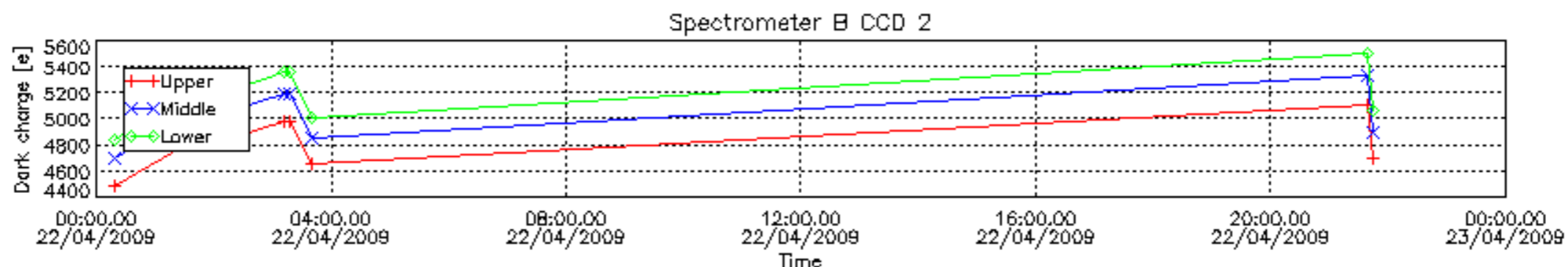
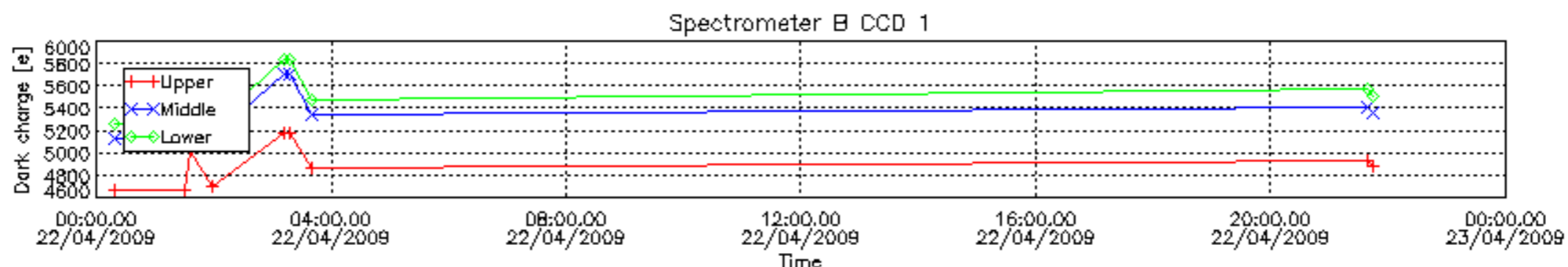
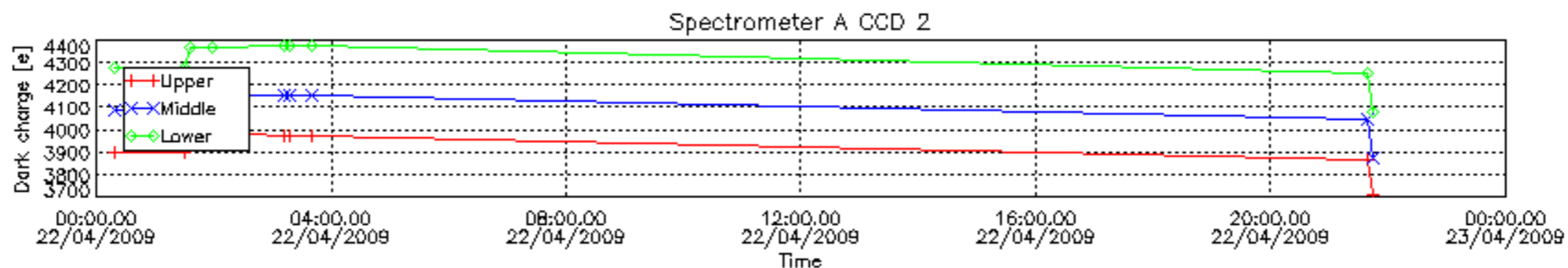
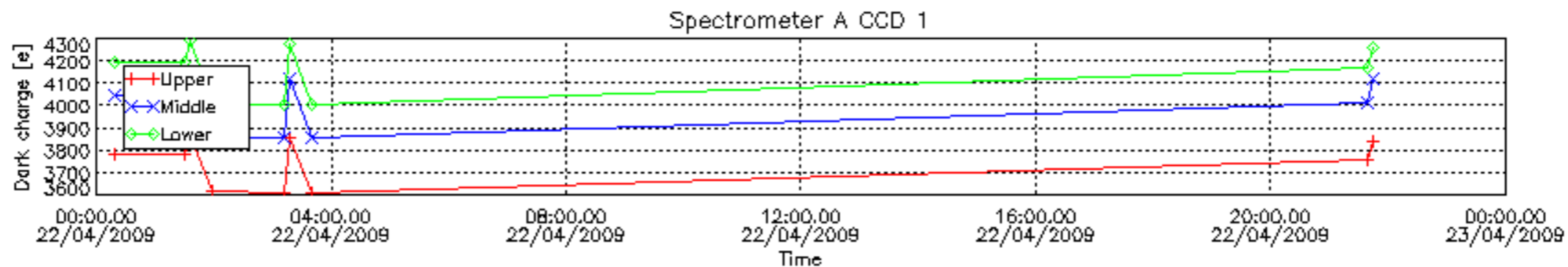
8. Auxiliary Data Files used for the production reported in section 2.4

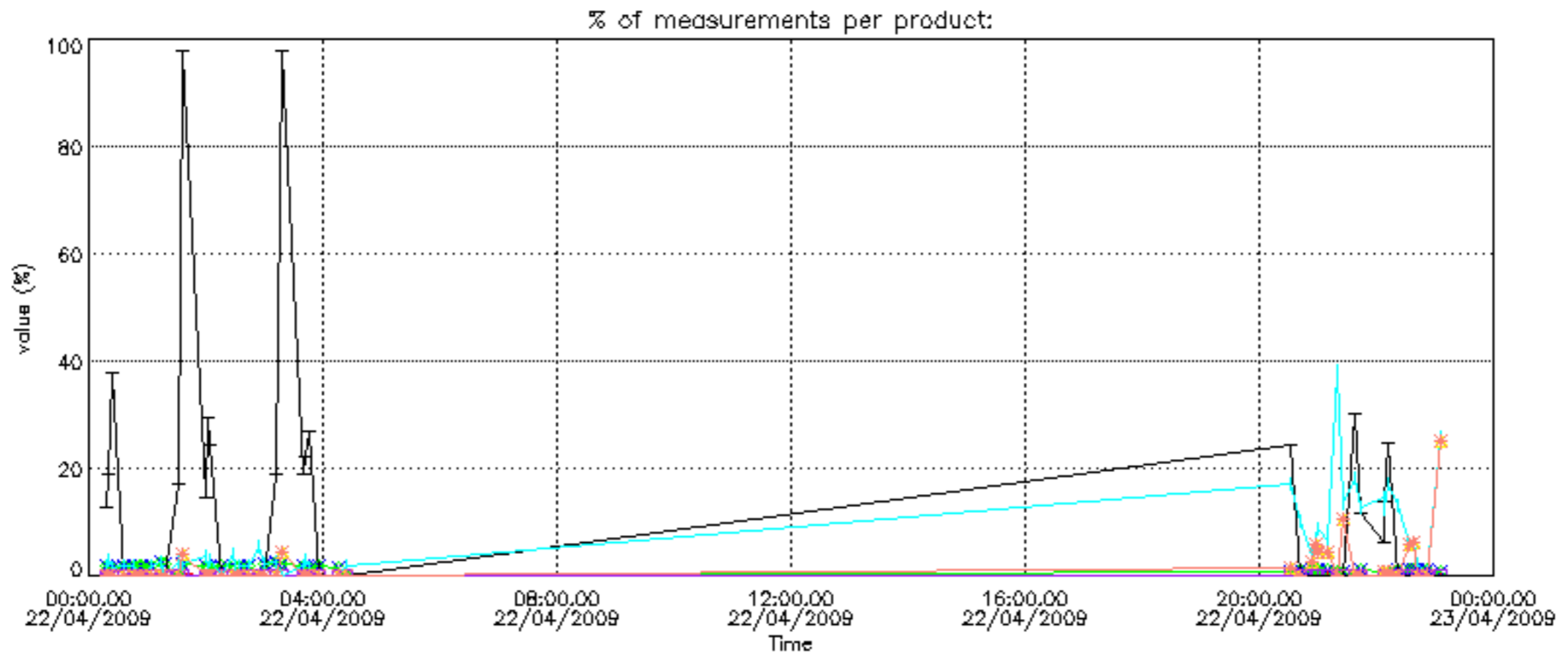
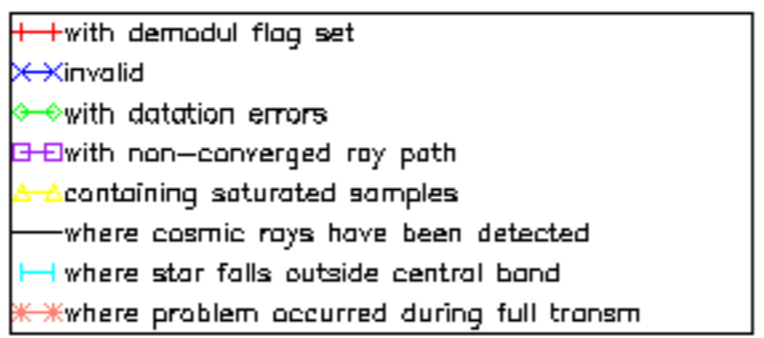
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-APR-2009 00:18:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	22-APR-2009 00:18:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	31	22-APR-2009 20:28:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-APR-2009 00:18:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-APR-2009 00:18:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-APR-2009 00:18:25
ECMWF_FILE	AUX_ECF_AXNECM20090421_064113_20090421_210000_20090422_090000	1	22-APR-2009 00:18:25
ECMWF_FILE	AUX_ECF_AXNECM20090422_064113_20090422_150000_20090423_030000	31	22-APR-2009 20:28:08
ECMWF_FILE	AUX_ECF_AXNECM20090422_064114_20090422_210000_20090423_090000	41	22-APR-2009 21:44:01
OPTIONAL_ECMWF_FILE	MISSING	1	22-APR-2009 00:18:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090421_221009_000060572078_00215_37343_7798.N1	1	22-APR-2009 00:18:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090421_235106_000057382078_00216_37344_7799.N1	12	22-APR-2009 01:36:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090422_013203_000044632078_00217_37345_7800.N1	22	22-APR-2009 02:59:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090422_202345_000041442078_00229_37357_7803.N1	31	22-APR-2009 20:28:08

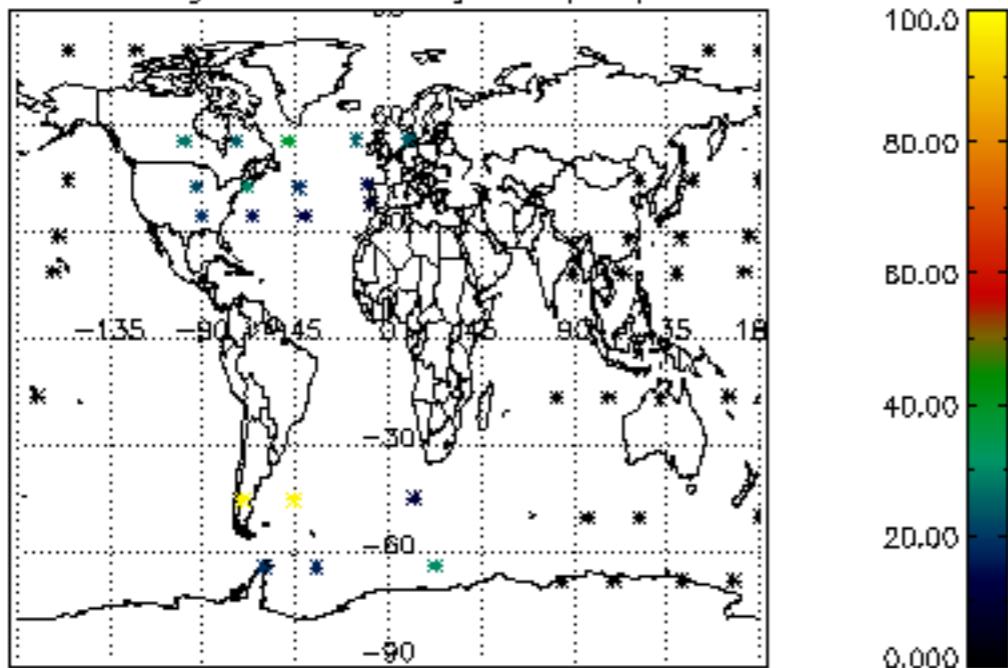




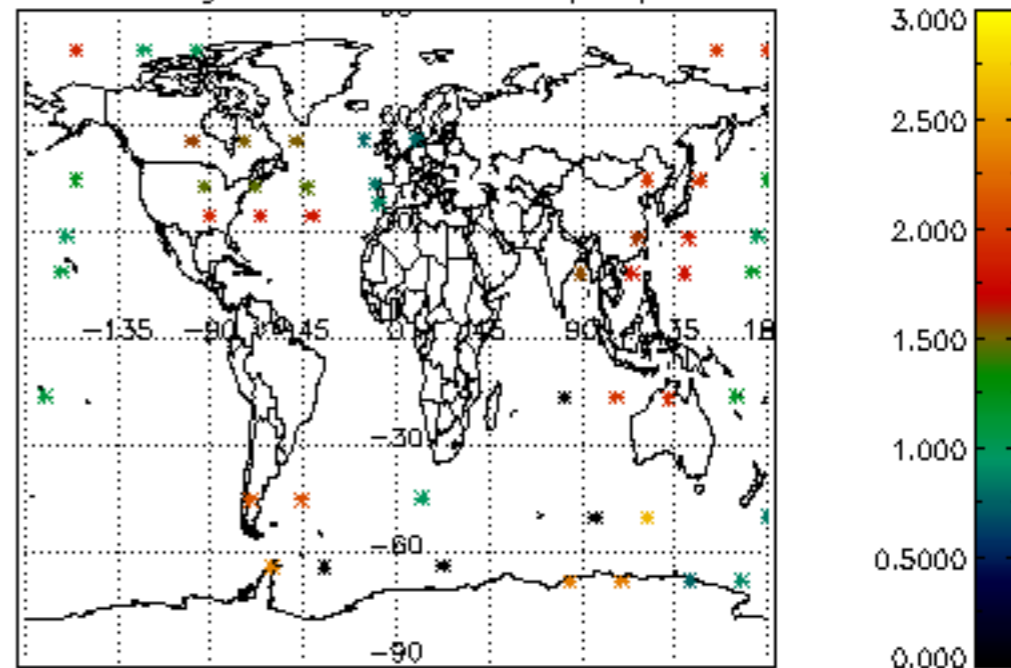




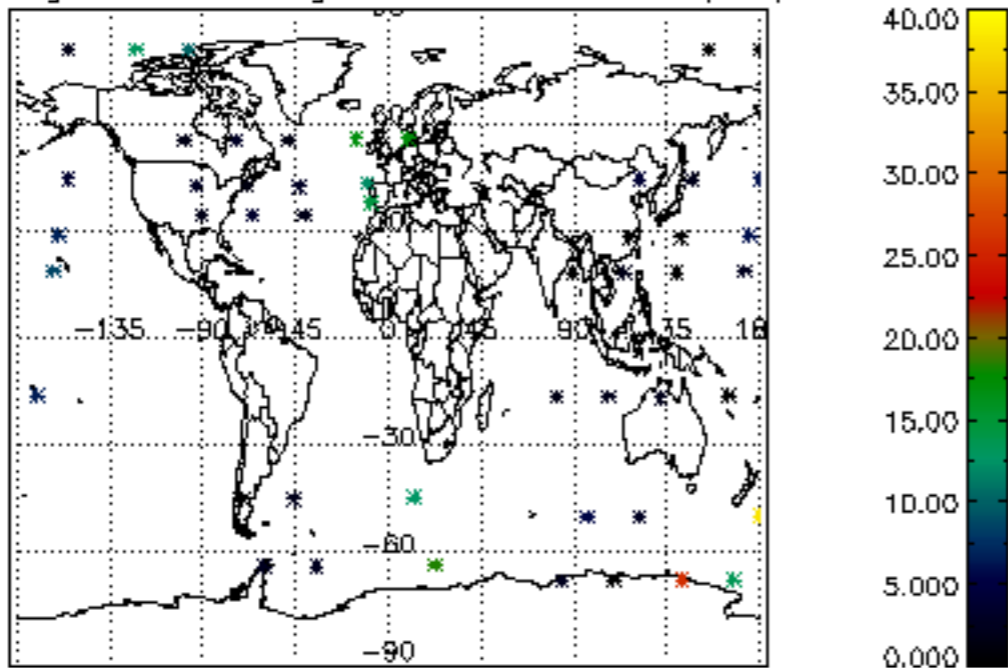
Percentage of cosmic ray hits per profile



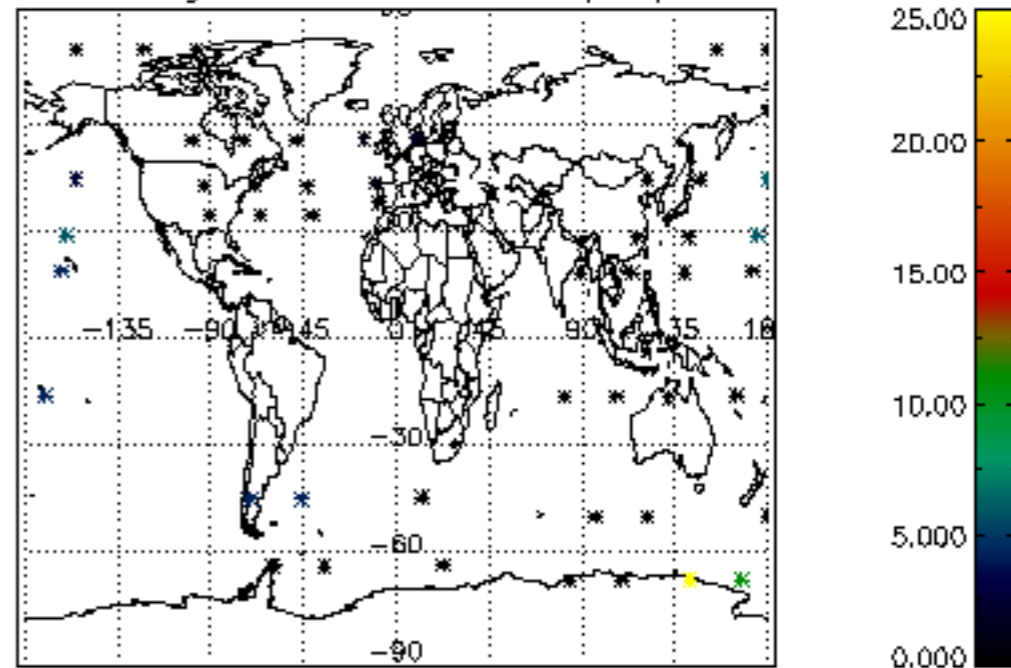
Percentage of datation errors per profile



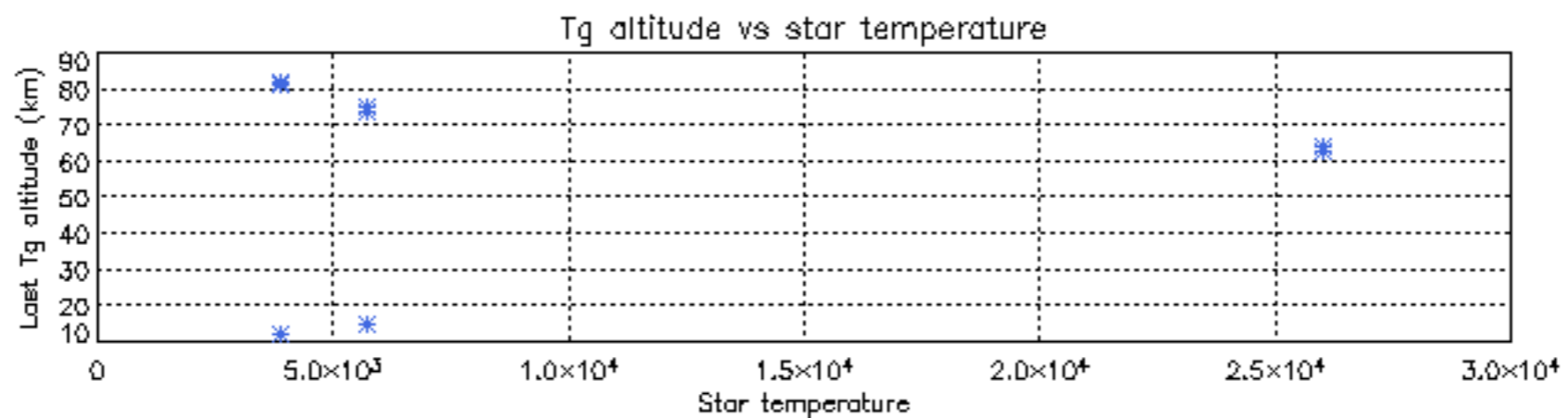
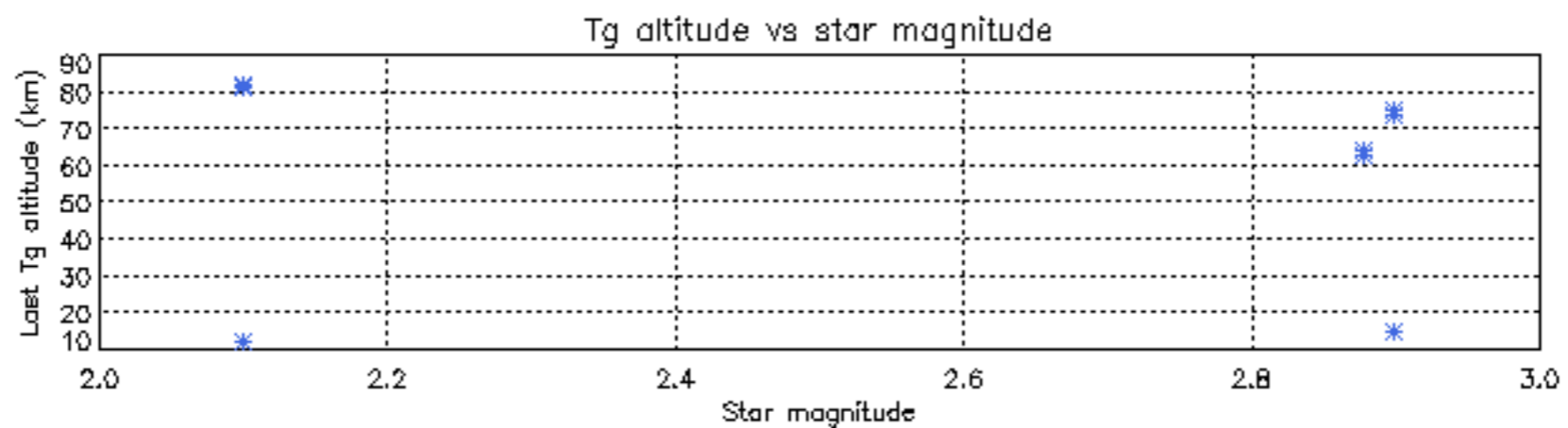
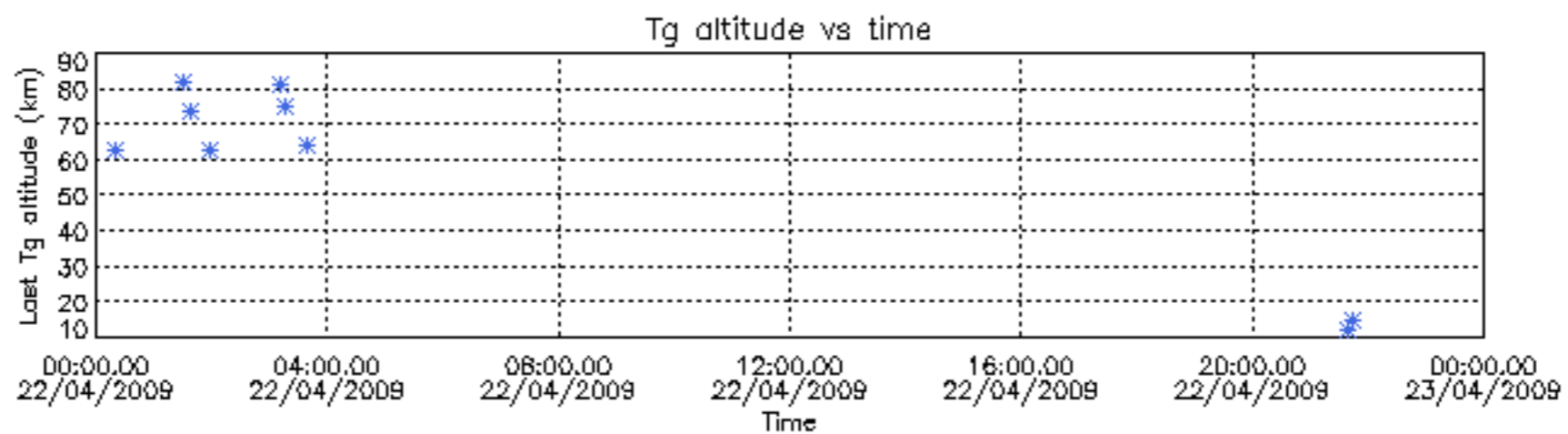
Percentage of star falling outside central band per profile



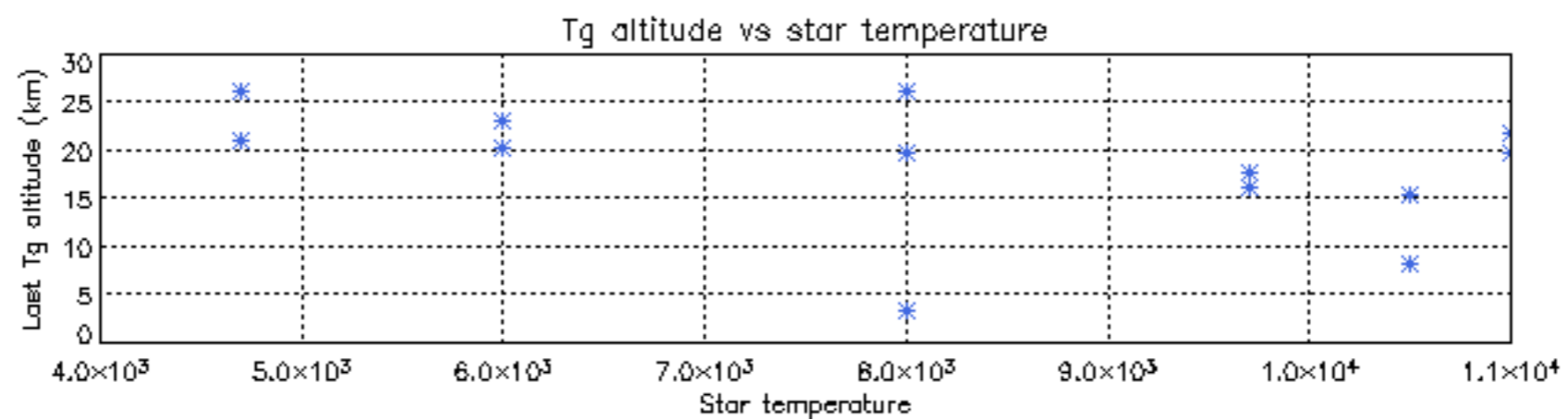
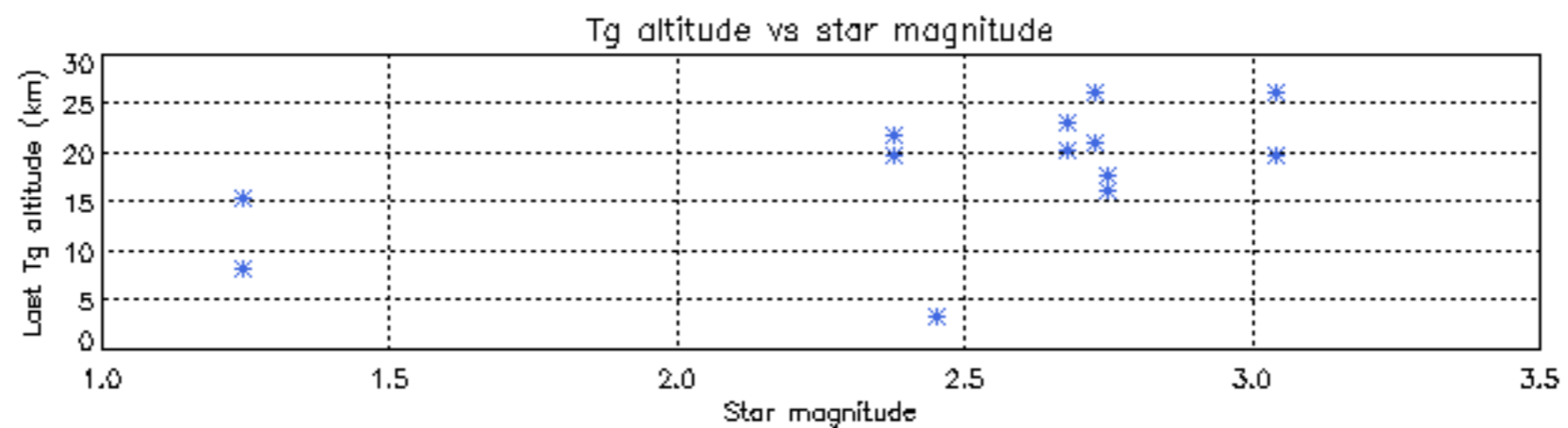
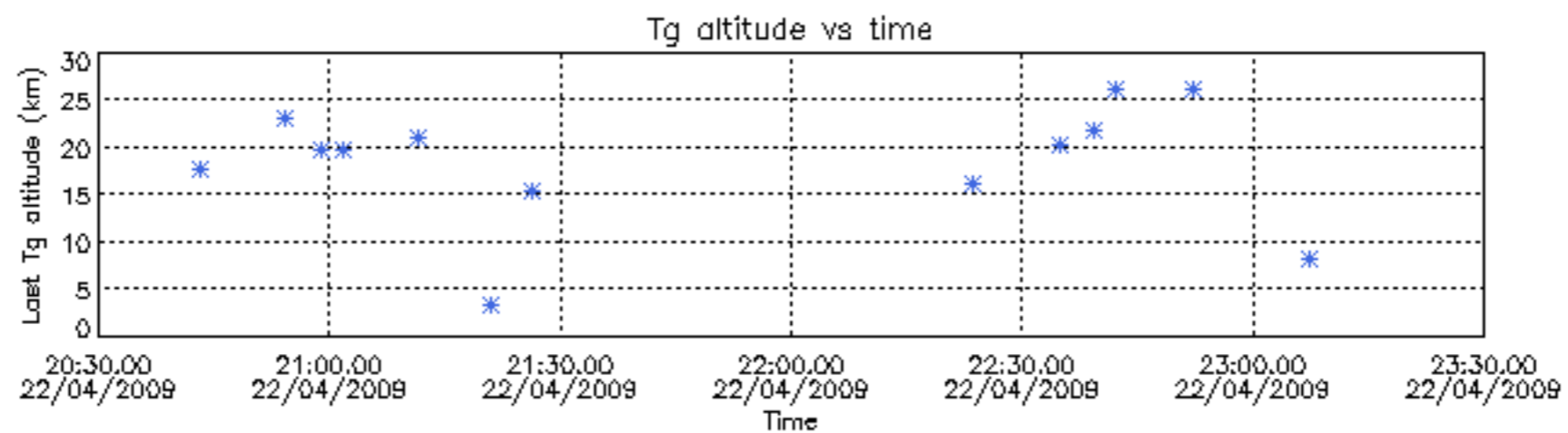
Percentage of saturation errors per profile

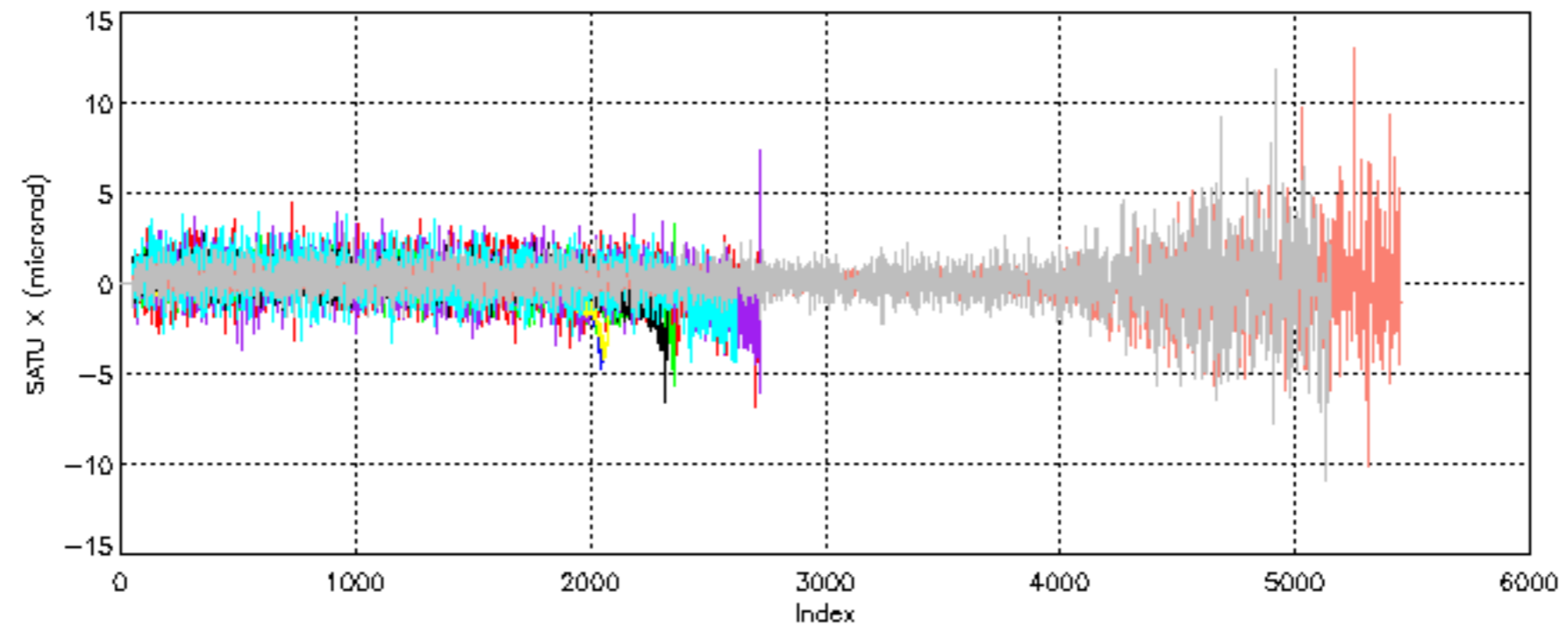


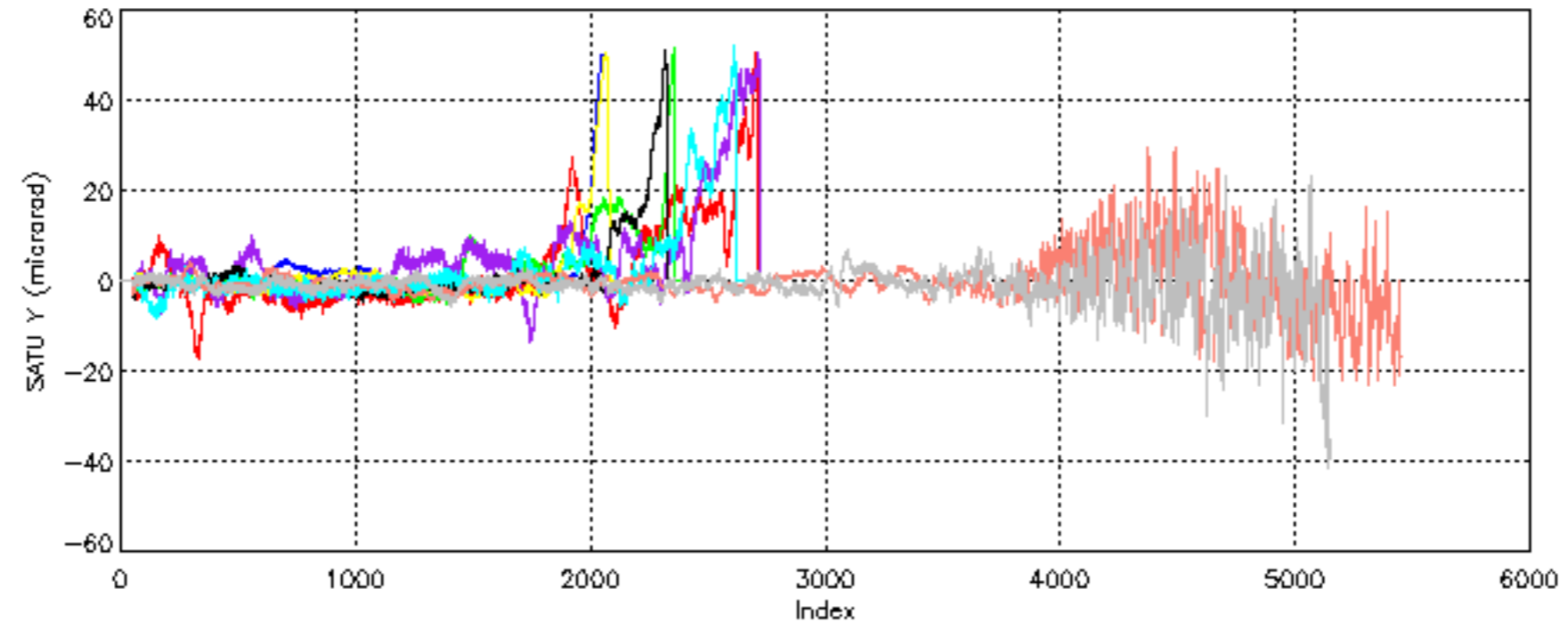
Tangent altitude at which the star is lost

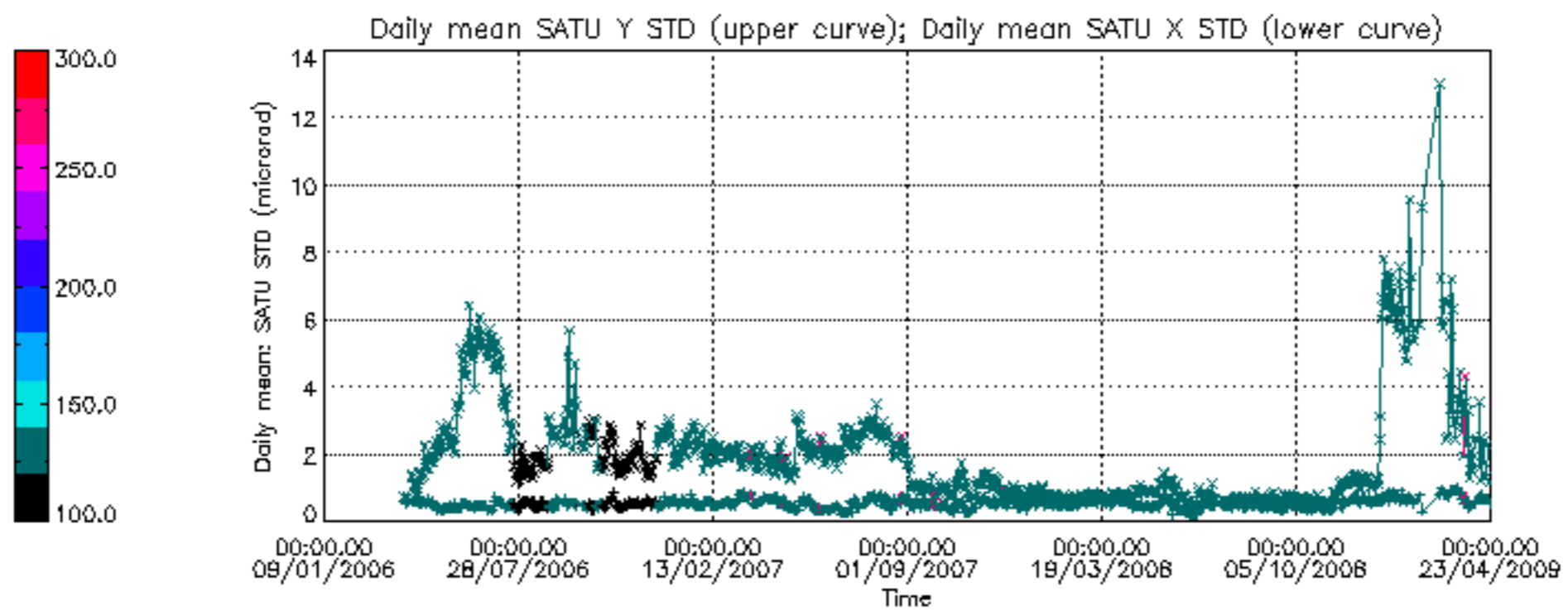


Tangent altitude at which the star is lost









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 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
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 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
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 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
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 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
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 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
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3; 341.6; 02-APR-2009 00:43:12; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;37059
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14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059
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6; 3856.6; 23-APR-2009 14:06:14; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;37367
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3; 2258.6; 23-APR-2009 15:20:12; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;37368
4; 2523.2; 23-APR-2009 15:24:36; Bright; 51.0; 83; ; 2.38; 11000;occ; 102; 0;37368
5; 2694.0; 23-APR-2009 15:27:27; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;37368
6; 3278.8; 23-APR-2009 15:37:12; Bright; 46.5; 119; 14Eta Dra ; 2.73; 4700;occ; 93; 0;37368
7; 3856.2; 23-APR-2009 15:46:49; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;37368
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3; 2258.4; 23-APR-2009 17:00:47; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;37369
4; 2522.4; 23-APR-2009 17:05:11; Bright; 52.0; 83; ; 2.38; 11000;occ; 104; 0;37369
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6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369
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14; 6781.1; 23-APR-2009 18:16:10; Dark ; 59.5; 25; 35Lam Sco ; 1.62; 28000;occ; 119; 0;37369
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