

GOMOS Daily Report 28-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	01MAY2009 04:41:11
Data source version	GOMOS/5.00
Start time of products	28APR2009 00:05:28
Stop time of products	28APR2009 06:00:02
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	2

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

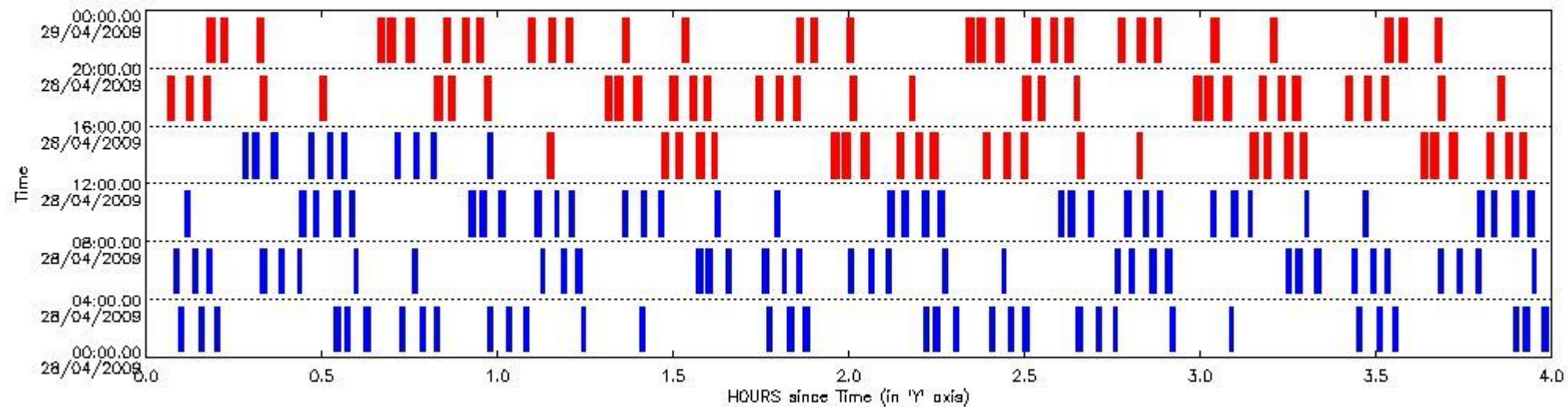
2.1 Level 0 products arrived in PCF (see template [here](#))

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
28-APR-2009 13:08:28	5AlpCep	89	37438
28-APR-2009 13:27:55	8EpsPeg	61	37438
28-APR-2009 13:30:22	34AlpAqr	162	37438
28-APR-2009 13:33:51	22BetAqr	154	37438
28-APR-2009 13:36:30	DSA1038	0	37438
28-APR-2009 13:57:03	TheSco	40	37439
28-APR-2009 13:58:45	35LamSco	25	37439
28-APR-2009 14:02:01	26EpsSco	75	37439
28-APR-2009 14:08:15	7DelSco	80	37439
28-APR-2009 14:11:32	9Alp2Lib	122	37439
28-APR-2009 14:13:56	27BetLib	104	37439
28-APR-2009 14:23:00	16AlpBoo	3	37439
28-APR-2009 14:26:20		83	37439
28-APR-2009 14:29:18	27GamBoo	180	37439
28-APR-2009 14:38:57	14EtaDra	119	37439

28-APR-2009 14:49:04	5AlpCep	89	37439
28-APR-2009 15:08:32	8EpsPeg	61	37439
28-APR-2009 15:10:59	34AlpAqr	162	37439
28-APR-2009 15:14:28	22BetAqr	154	37439
28-APR-2009 15:17:07	DSA1038	0	37439
28-APR-2009 15:37:39	TheSco	40	37440
28-APR-2009 15:39:22	35LamSco	25	37440
28-APR-2009 15:42:37	26EpsSco	75	37440
28-APR-2009 15:48:52	7DelSco	80	37440
28-APR-2009 15:52:08	9Alp2Lib	122	37440
28-APR-2009 15:54:32	27BetLib	104	37440
28-APR-2009 16:03:36	16AlpBoo	3	37440
28-APR-2009 16:06:55		83	37440
28-APR-2009 16:09:53	27GamBoo	180	37440
28-APR-2009 16:19:32	14EtaDra	119	37440
28-APR-2009 16:29:39	5AlpCep	89	37440
28-APR-2009 16:49:09	8EpsPeg	61	37440
28-APR-2009 16:51:35	34AlpAqr	162	37440
28-APR-2009 16:57:44	DSA1038	0	37440
28-APR-2009 17:18:16	TheSco	40	37441
28-APR-2009 17:19:59	35LamSco	25	37441
28-APR-2009 17:23:14	26EpsSco	75	37441
28-APR-2009 17:29:28	7DelSco	80	37441
28-APR-2009 17:32:44	9Alp2Lib	122	37441
28-APR-2009 17:35:08	27BetLib	104	37441
28-APR-2009 17:44:12	16AlpBoo	3	37441
28-APR-2009 17:47:31		83	37441
28-APR-2009 17:50:29	27GamBoo	180	37441
28-APR-2009 18:00:08	14EtaDra	119	37441
28-APR-2009 18:10:15	5AlpCep	89	37441
28-APR-2009 18:29:45	8EpsPeg	61	37441
28-APR-2009 18:32:12	34AlpAqr	162	37441
28-APR-2009 18:38:21	DSA1038	0	37441
28-APR-2009 18:58:53	TheSco	40	37442
28-APR-2009 19:00:36	35LamSco	25	37442
28-APR-2009 19:03:51	26EpsSco	75	37442
28-APR-2009 19:10:04	7DelSco	80	37442
28-APR-2009 19:13:20	9Alp2Lib	122	37442
28-APR-2009 19:15:44	27BetLib	104	37442
28-APR-2009 19:24:47	16AlpBoo	3	37442
28-APR-2009 19:28:06		83	37442
28-APR-2009 19:31:04	27GamBoo	180	37442
28-APR-2009 19:40:43	14EtaDra	119	37442
28-APR-2009 19:50:51	5AlpCep	89	37442
28-APR-2009 20:10:22	8EpsPeg	61	37442
28-APR-2009 20:12:48	34AlpAqr	162	37442
28-APR-2009 20:18:58	DSA1038	0	37442
28-APR-2009 20:39:30	TheSco	40	37443
28-APR-2009 20:41:12	35LamSco	25	37443
28-APR-2009 20:44:27	26EpsSco	75	37443
28-APR-2009 20:50:40	7DelSco	80	37443
28-APR-2009 20:53:57	9Alp2Lib	122	37443
28-APR-2009 20:56:20	27BetLib	104	37443
28-APR-2009 21:05:23	16AlpBoo	3	37443
28-APR-2009 21:08:42		83	37443
28-APR-2009 21:11:40	27GamBoo	180	37443
28-APR-2009 21:21:18	14EtaDra	119	37443
28-APR-2009 21:31:26	5AlpCep	89	37443
28-APR-2009 21:50:59	8EpsPeg	61	37443

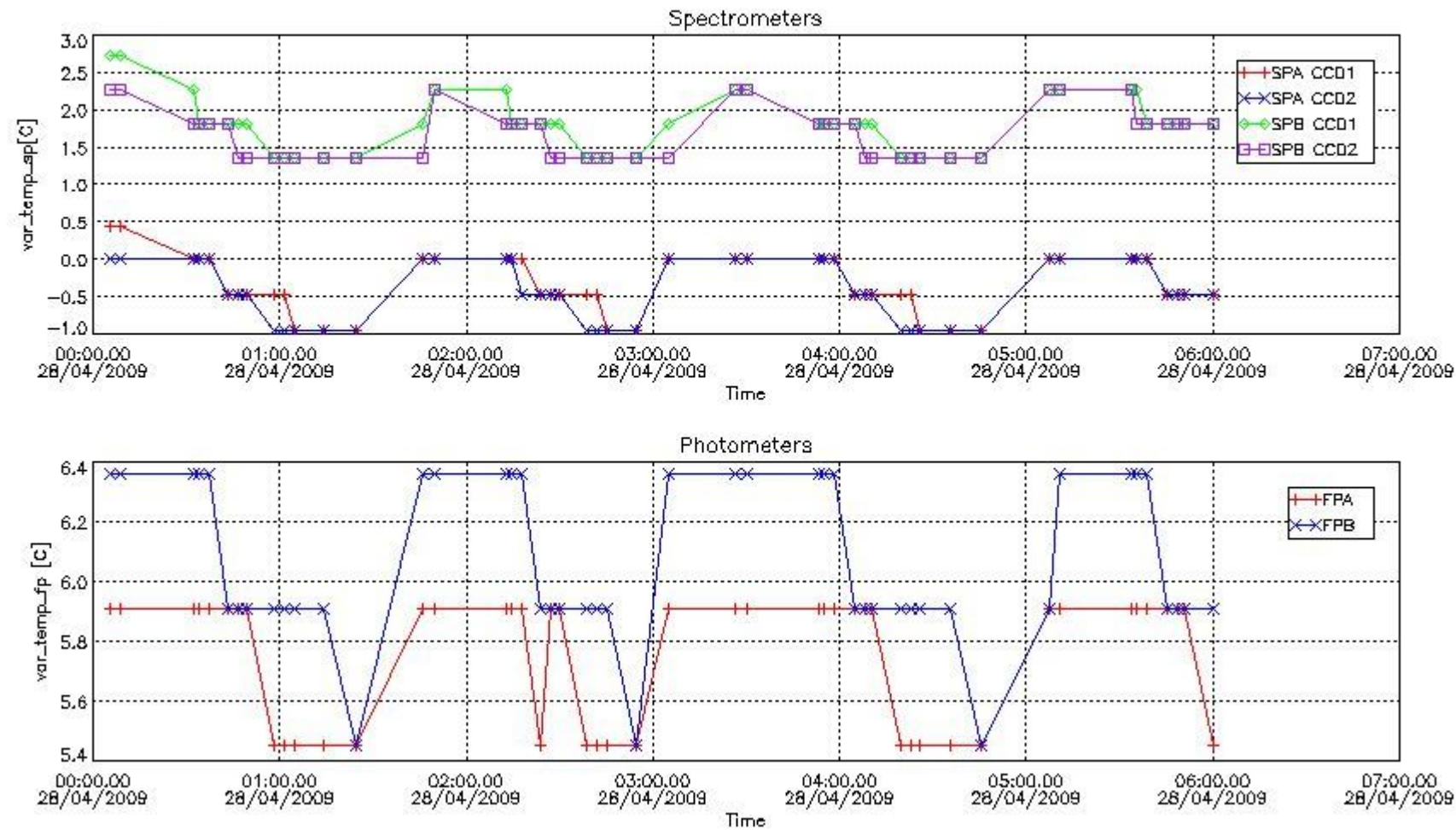
28-APR-2009 21:53:25	34AlpAqr	162	37443
28-APR-2009 21:59:35	DSA1038	0	37443
28-APR-2009 22:20:07	TheSco	40	37444
28-APR-2009 22:21:49	35LamSco	25	37444
28-APR-2009 22:25:04	26EpsSco	75	37444
28-APR-2009 22:31:17	7DelSco	80	37444
28-APR-2009 22:34:33	9Alp2Lib	122	37444
28-APR-2009 22:36:56	27BetLib	104	37444
28-APR-2009 22:45:58	16AlpBoo	3	37444
28-APR-2009 22:49:17		83	37444
28-APR-2009 22:52:15	27GamBoo	180	37444
28-APR-2009 23:01:54	14EtaDra	119	37444
28-APR-2009 23:12:02	5AlpCep	89	37444
28-APR-2009 23:31:35	8EpsPeg	61	37444
28-APR-2009 23:34:02	34AlpAqr	162	37444
28-APR-2009 23:40:12	DSA1038	0	37444

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_1PNPDE20090428_000528_000000452078_00302_37430_3088.N1	28-APR-2009 00:05:28	Dark	45.000	162	34Alp Aqr	2.9440	5350.0	90	37430	No
2	GOM_TRA_1PNPDE20090428_000854_000000562078_00302_37430_3221.N1	28-APR-2009 00:08:54	Dark	56.000	154	22Bet Aqr	2.8990	5700.0	112	37430	No
3	GOM_TRA_1PNPDE20090428_003207_000000572078_00303_37431_3222.N1	28-APR-2009 00:32:07	Straylight	56.500	40	The Sco	1.8590	7100.0	113	37431	No
4	GOM_TRA_1PNPDE20090428_003348_000000622078_00303_37431_3223.N1	28-APR-2009 00:33:48	Straylight	62.000	25	35Lam Sco	1.6200	28000.	124	37431	No
5	GOM_TRA_1PNPDE20090428_003706_000000622078_00303_37431_3224.N1	28-APR-2009 00:37:06	Straylight	61.500	75	26Eps Sco	2.2910	4250.0	123	37431	No
6	GOM_TRA_1PNPDE20090428_004324_000000462078_00303_37431_3225.N1	28-APR-2009 00:43:24	Twilight	46.000	80	7Del Sco	2.3160	30000.	92	37431	No
7	GOM_TRA_1PNPDE20090428_004643_000000472078_00303_37431_3226.N1	28-APR-2009 00:46:43	Bright	46.500	122	9Alp2Lib	2.7470	9700.0	93	37431	No
8	GOM_TRA_1PNPDE20090428_004909_000000502078_00303_37431_3227.N1	28-APR-2009 00:49:09	Bright	50.000	104	27Bet Lib	2.6140	13100.	100	37431	No
9	GOM_TRA_1PNPDE20090428_005815_000000452078_00303_37431_3228.N1	28-APR-2009 00:58:15	Bright	45.000	3	16Alp Boo	-0.050000	4250.0	90	37431	No
10	GOM_TRA_1PNPDE20090428_010137_000000482078_00303_37431_3229.N1	28-APR-2009 01:01:37	Bright	47.500	83		2.3780	11000.	95	37431	No
11	GOM_TRA_1PNPDE20090428_010434_000000432078_00303_37431_3230.N1	28-APR-2009 01:04:34	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37431	No
12	GOM_TRA_1PNPDE20090428_011414_000000442078_00303_37431_3231.N1	28-APR-2009 01:14:14	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	37431	No
13	GOM_TRA_1PNPDE20090428_012417_000000402078_00303_37431_3232.N1	28-APR-2009 01:24:17	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	37431	No
14	GOM_TRA_1PNPDE20090428_014604_000000462078_00303_37431_3392.N1	28-APR-2009 01:46:04	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	37431	Yes
15	GOM_TRA_1PNPDE20090428_014931_000000582078_00303_37431_3393.N1	28-APR-2009 01:49:31	Dark	58.000	154	22Bet Aqr	2.8990	5700.0	116	37431	No
16	GOM_TRA_1PNPDE20090428_021244_000000522078_00304_37432_3394.N1	28-APR-2009 02:12:44	Straylight	52.000	40	The Sco	1.8590	7100.0	104	37432	No
17	GOM_TRA_1PNPDE20090428_021425_000000602078_00304_37432_3395.N1	28-APR-2009 02:14:25	Straylight	60.000	25	35Lam Sco	1.6200	28000.	120	37432	No
18	GOM_TRA_1PNPDE20090428_021743_000000612078_00304_37432_3396.N1	28-APR-2009 02:17:43	Straylight	60.500	75	26Eps Sco	2.2910	4250.0	121	37432	No
19	GOM_TRA_1PNPDE20090428_022401_000000512078_00304_37432_3397.N1	28-APR-2009 02:24:01	Twilight	51.000	80	7Del Sco	2.3160	30000.	102	37432	No
20	GOM_TRA_1PNPDE20090428_022719_000000472078_00304_37432_3398.N1	28-APR-2009 02:27:19	Bright	47.000	122	9Alp2Lib	2.7470	9700.0	94	37432	No
21	GOM_TRA_1PNPDE20090428_022945_000000522078_00304_37432_3399.N1	28-APR-2009 02:29:45	Bright	52.000	104	27Bet Lib	2.6140	13100.	104	37432	No
22	GOM_TRA_1PNPDE20090428_023850_000000622078_00304_37432_3400.N1	28-APR-2009 02:38:50	Bright	62.000	3	16Alp Boo	-0.050000	4250.0	124	37432	No
23	GOM_TRA_1PNPDE20090428_024212_000000492078_00304_37432_3401.N1	28-APR-2009 02:42:12	Bright	49.000	83		2.3780	11000.	98	37432	No
24	GOM_TRA_1PNPDE20090428_024509_000000422078_00304_37432_3402.N1	28-APR-2009 02:45:09	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	37432	No
25	GOM_TRA_1PNPDE20090428_025449_000000462078_00304_37432_3403.N1	28-APR-2009 02:54:49	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37432	No
26	GOM_TRA_1PNPDE20090428_030453_000000392078_00304_37432_3553.N1	28-APR-2009 03:04:53	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	37432	Yes
27	GOM_TRA_1PNPDE20090428_032641_000000432078_00304_37432_3554.N1	28-APR-2009 03:26:41	Dark	42.500	162	34Alp Aqr	2.9440	5350.0	85	37432	No
28	GOM_TRA_1PNPDE20090428_033008_000000582078_00304_37432_3555.N1	28-APR-2009 03:30:08	Dark	57.500	154	22Bet Aqr	2.8990	5700.0	115	37432	No
29	GOM_TRA_1PNPDE20090428_035321_000000612078_00305_37433_3556.N1	28-APR-2009 03:53:21	Straylight	60.500	40	The Sco	1.8590	7100.0	121	37433	No
30	GOM_TRA_1PNPDE20090428_035502_000000642078_00305_37433_3557.N1	28-APR-2009 03:55:02	Straylight	63.500	25	35Lam Sco	1.6200	28000.	127	37433	No
31	GOM_TRA_1PNPDE20090428_035820_000000612078_00305_37433_3558.N1	28-APR-2009 03:58:20	Straylight	60.500	75	26Eps Sco	2.2910	4250.0	121	37433	No
32	GOM_TRA_1PNPDE20090428_040437_000000512078_00305_37433_3559.N1	28-APR-2009 04:04:37	Twilight	51.000	80	7Del Sco	2.3160	30000.	102	37433	No
33	GOM_TRA_1PNPDE20090428_040755_000000442078_00305_37433_3560.N1	28-APR-2009 04:07:55	Bright	43.500	122	9Alp2Lib	2.7470	9700.0	87	37433	No
34	GOM_TRA_1PNPDE20090428_041021_000000512078_00305_37433_3561.N1	28-APR-2009 04:10:21	Bright	51.000	104	27Bet Lib	2.6140	13100.	102	37433	No
35	GOM_TRA_1PNPDE20090428_041926_000000622078_00305_37433_3562.N1	28-APR-2009 04:19:26	Bright	62.000	3	16Alp Boo	-0.050000	4250.0	124	37433	No
36	GOM_TRA_1PNPDE20090428_042247_000000482078_00305_37433_3563.N1	28-APR-2009 04:22:47	Bright	48.000	83		2.3780	11000.	96	37433	No
37	GOM_TRA_1PNPDE20090428_042545_000000412078_00305_37433_3564.N1	28-APR-2009 04:25:45	Bright	41.000	180	27Gam Boo	3.0400	8000.0	82	37433	No
38	GOM_TRA_1PNPDE20090428_043525_000000452078_00305_37433_3565.N1	28-APR-2009 04:35:25	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	37433	No

39	GOM_TRA_1PNPDE20090428_044529_000000442078_00305_37433_3745.N1	28-APR-2009 04:45:29	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	37433	No
40	GOM_TRA_1PNPDE20090428_050718_000000442078_00305_37433_3746.N1	28-APR-2009 05:07:18	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	37433	No
41	GOM_TRA_1PNPDE20090428_051045_000000582078_00305_37433_3747.N1	28-APR-2009 05:10:45	Dark	57.500	154	22Bet Aqr	2.8990	5700.0	115	37433	No
42	GOM_TRA_1PNPDE20090428_053357_000000552078_00306_37434_3748.N1	28-APR-2009 05:33:57	Straylight	54.500	40	The Sco	1.8590	7100.0	109	37434	No
43	GOM_TRA_1PNPDE20090428_053539_000000562078_00306_37434_3749.N1	28-APR-2009 05:35:39	Straylight	55.500	25	35Lam Sco	1.6200	28000.	111	37434	No
44	GOM_TRA_1PNPDE20090428_053856_000000592078_00306_37434_3750.N1	28-APR-2009 05:38:56	Straylight	58.500	75	26Eps Sco	2.2910	4250.0	117	37434	No
45	GOM_TRA_1PNPDE20090428_054513_000000552078_00306_37434_3751.N1	28-APR-2009 05:45:13	Twilight_stray	55.000	80	7Del Sco	2.3160	30000.	110	37434	No
46	GOM_TRA_1PNPDE20090428_054832_000000462078_00306_37434_3752.N1	28-APR-2009 05:48:32	Bright	46.000	122	9Alp2Lib	2.7470	9700.0	92	37434	No
47	GOM_TRA_1PNPDE20090428_055056_000000492078_00306_37434_3753.N1	28-APR-2009 05:50:56	Bright	48.500	104	27Bet Lib	2.6140	13100.	97	37434	No
48	GOM_TRA_1PNPDE20090428_060002_000000452078_00306_37434_3754.N1	28-APR-2009 06:00:02	Bright	44.500	3	16Alp Boo	-0.050000	4250.0	89	37434	No

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



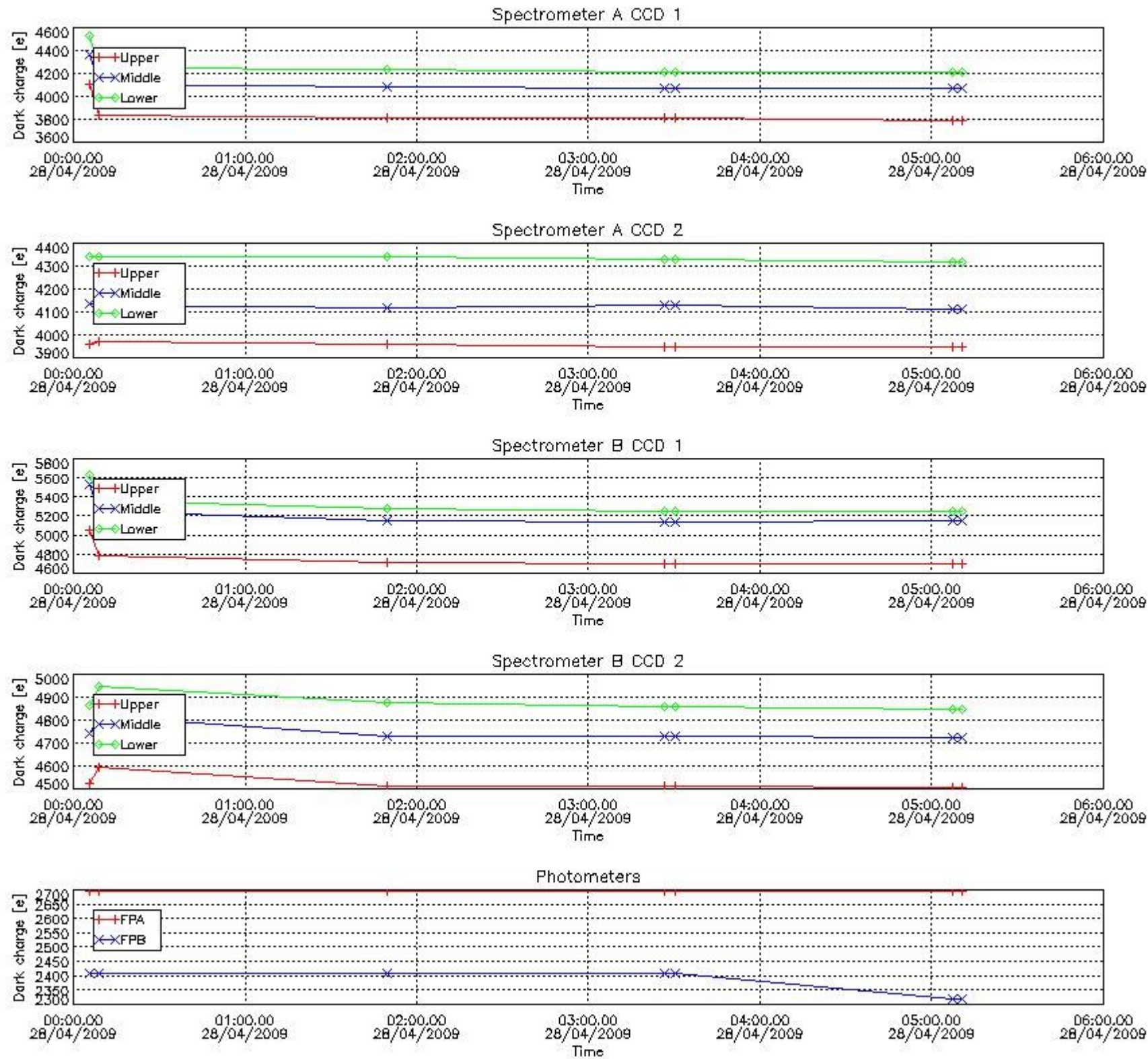
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



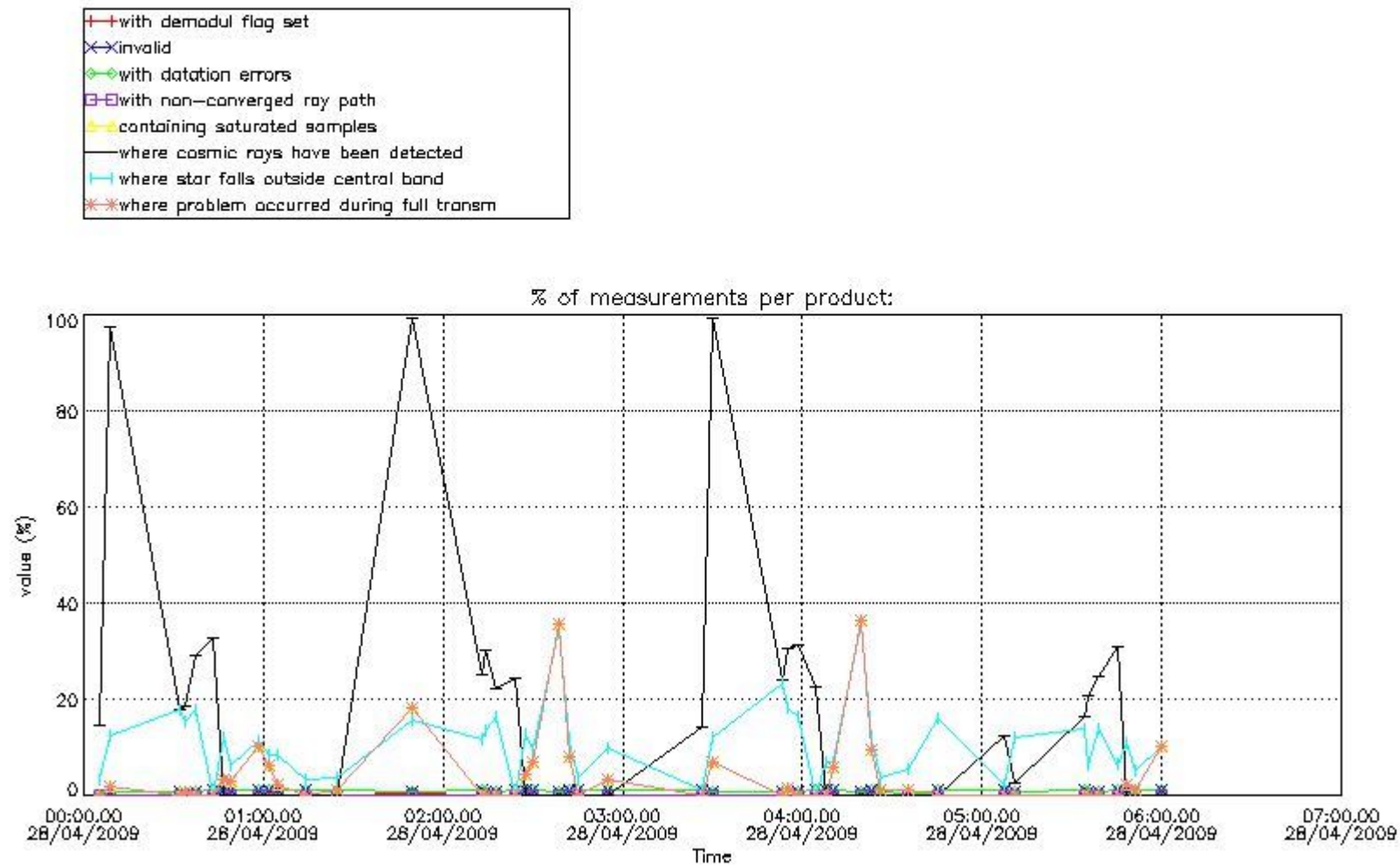
5. Demodulation flag and quality information monitoring

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

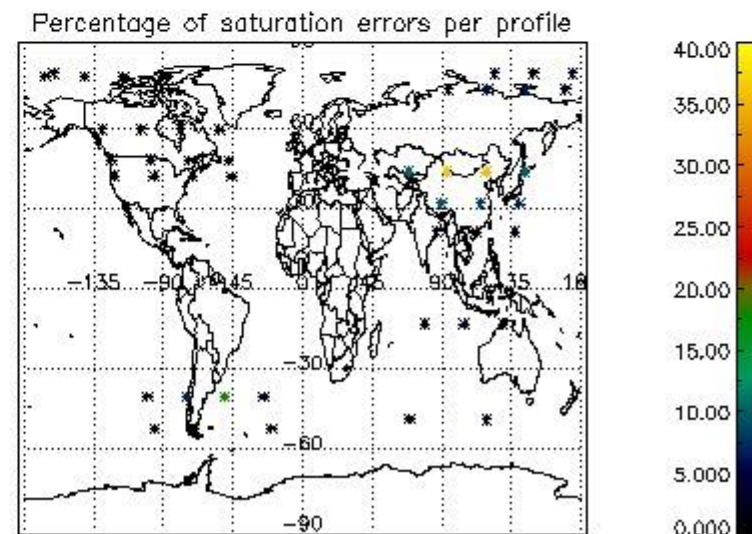
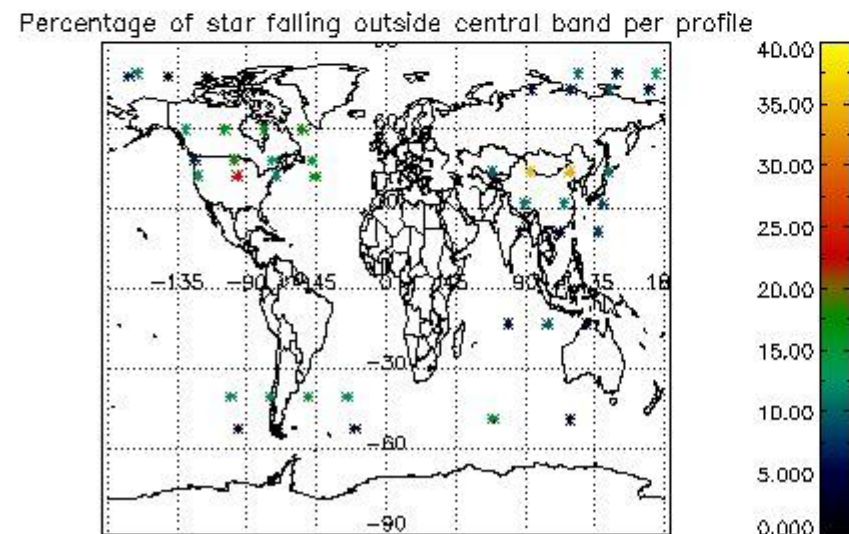
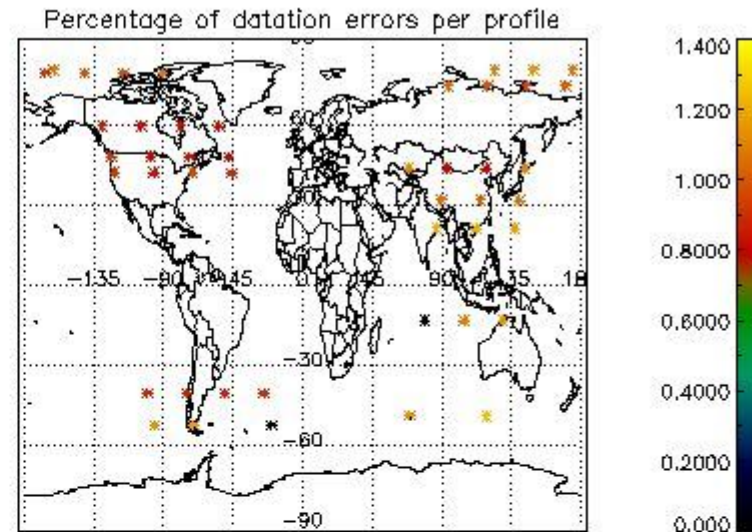
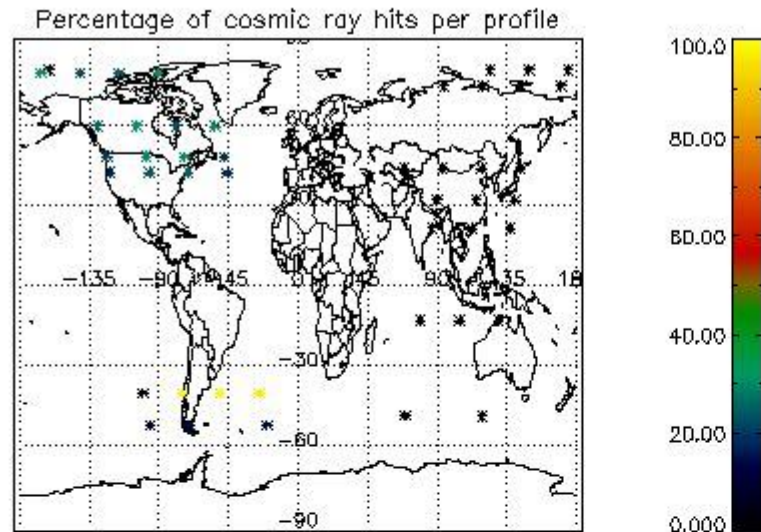
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.6087 %
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)



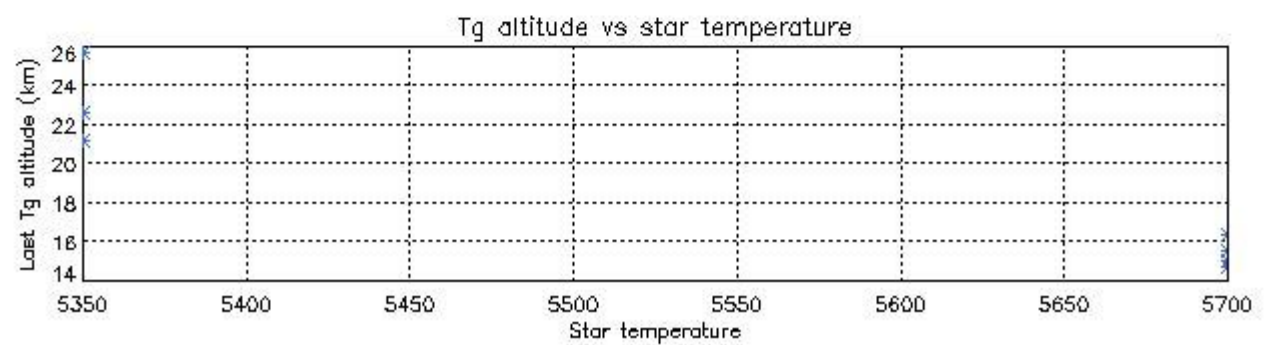
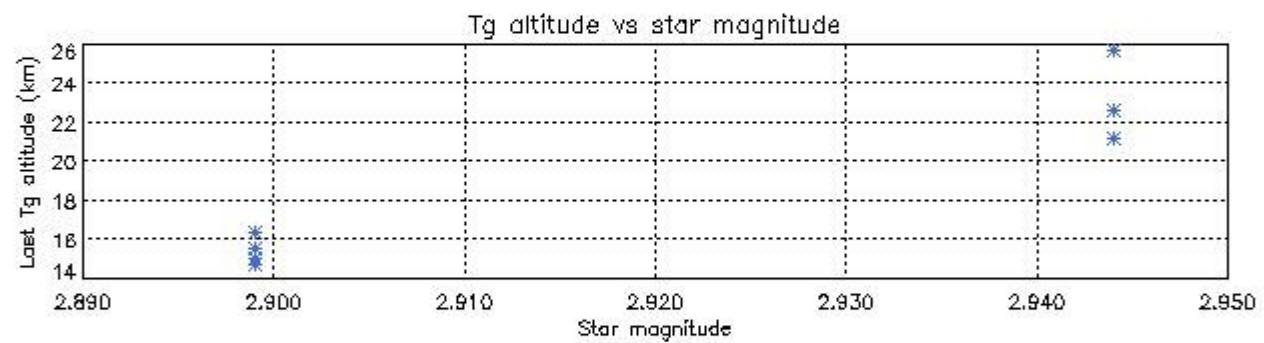
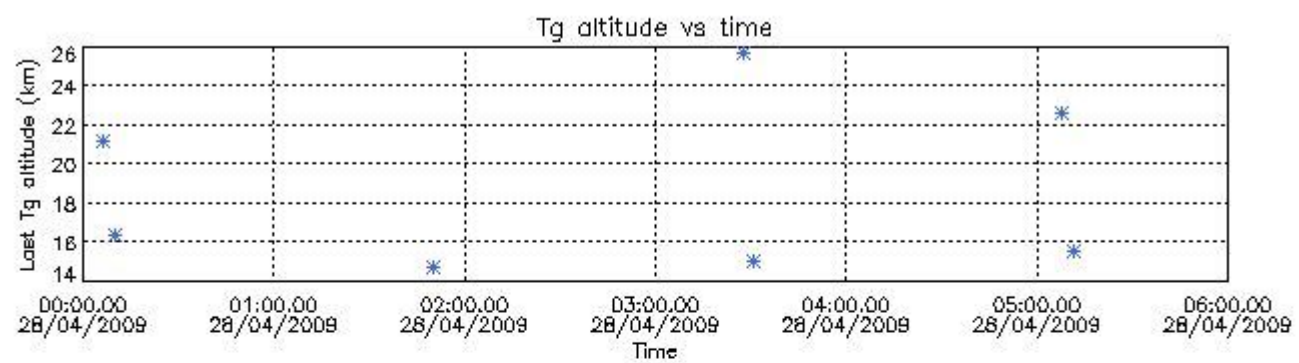
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.737	18.309	NaN
St. deviation:	4.3650	5.2234	NaN
Maximum:	25.656	24.193	NaN
Minimum:	14.718	3.6289	NaN
Number of data:	7.0000	23.000	NaN

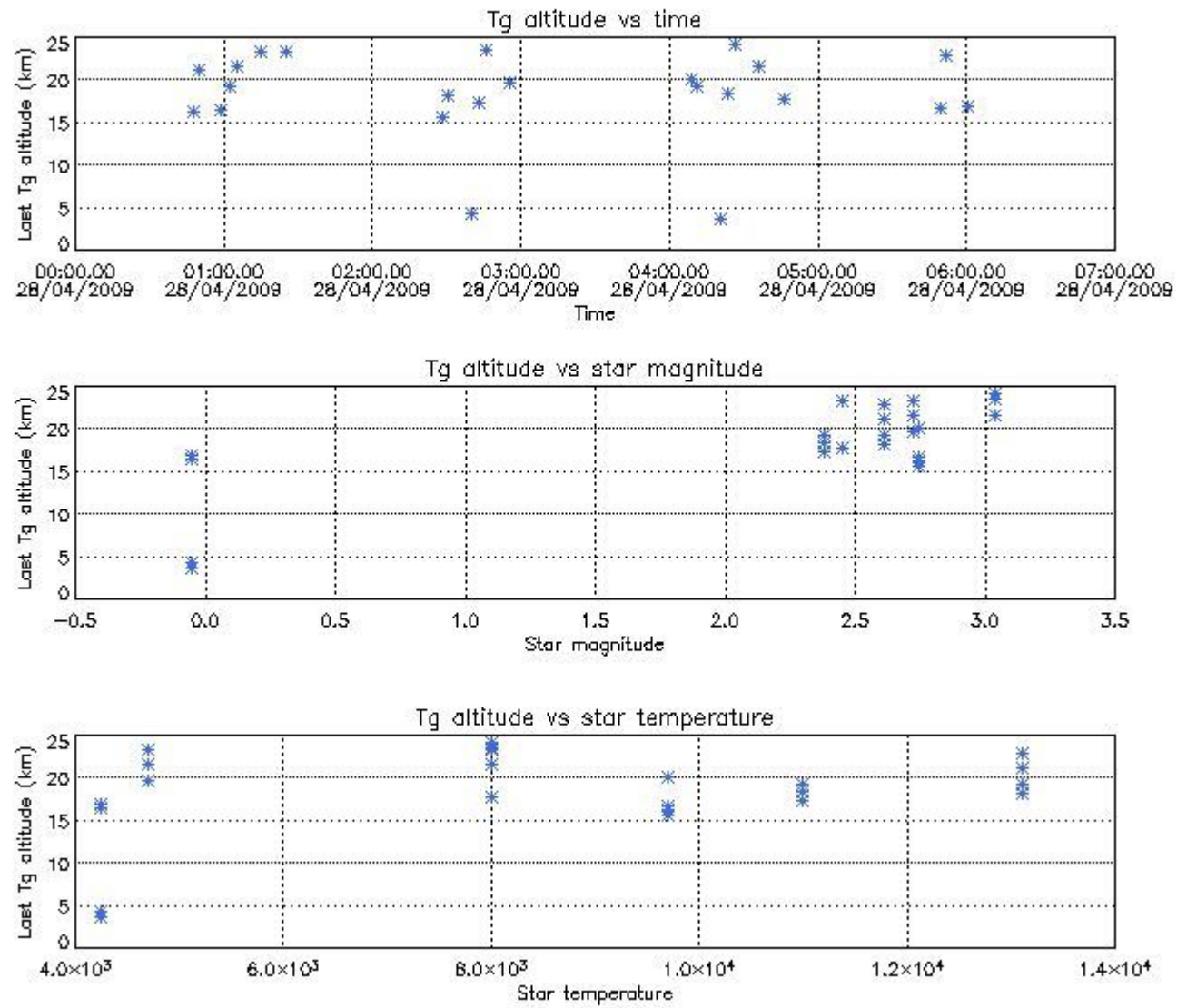
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

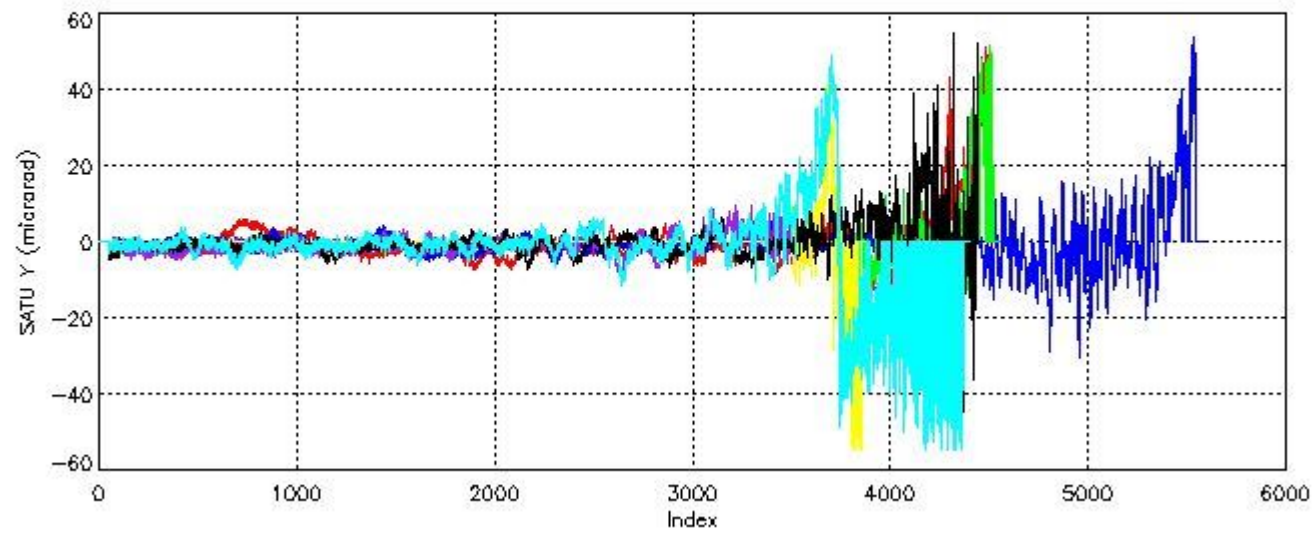
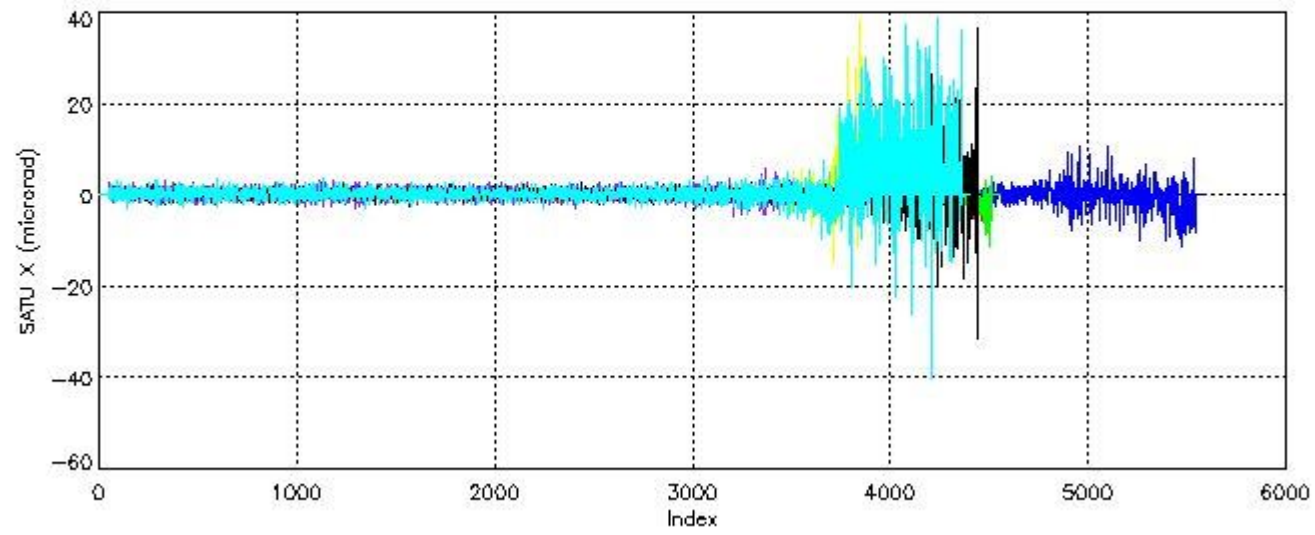


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29889	-0.78866	0.33851	-1.1663
St. deviation:	0.66844	1.3702	0.87433	1.5286
Maximum:	3.4000	8.8000	5.9000	8.5000
Minimum:	-2.1000	-5.5000	-5.4000	-13.000

Number of data:	8500.0	8500.0	23750.	23750.
-----------------	--------	--------	--------	--------

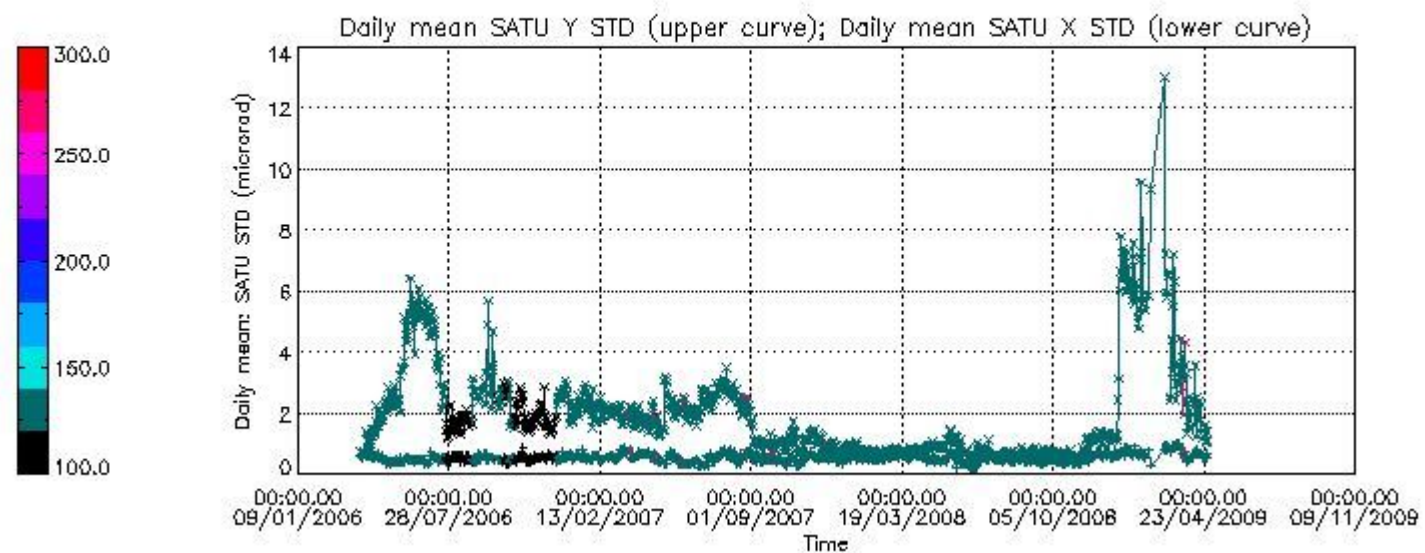
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

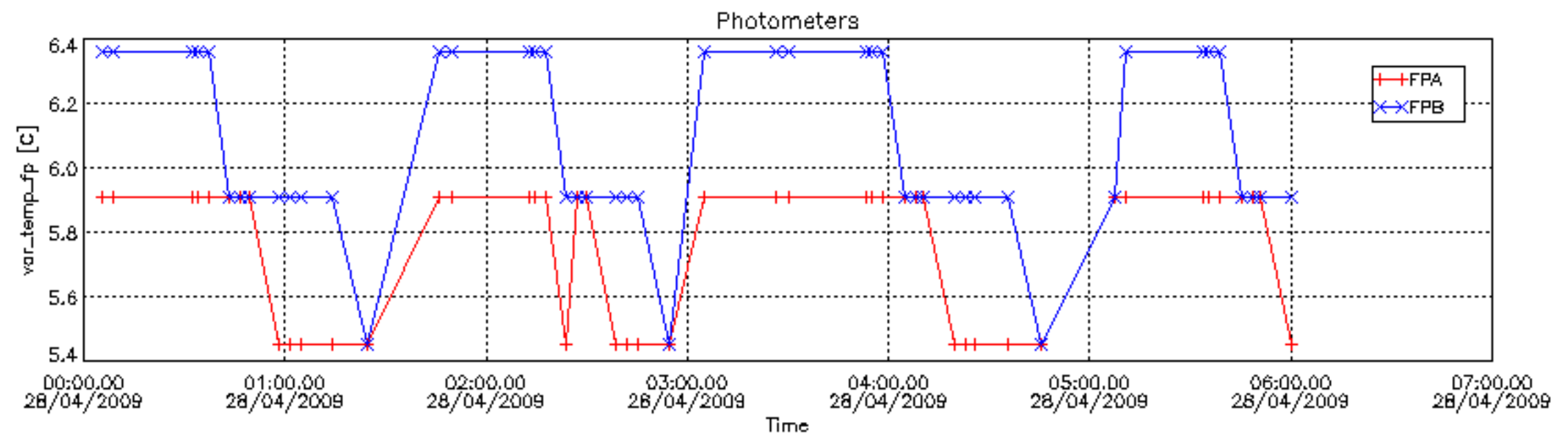
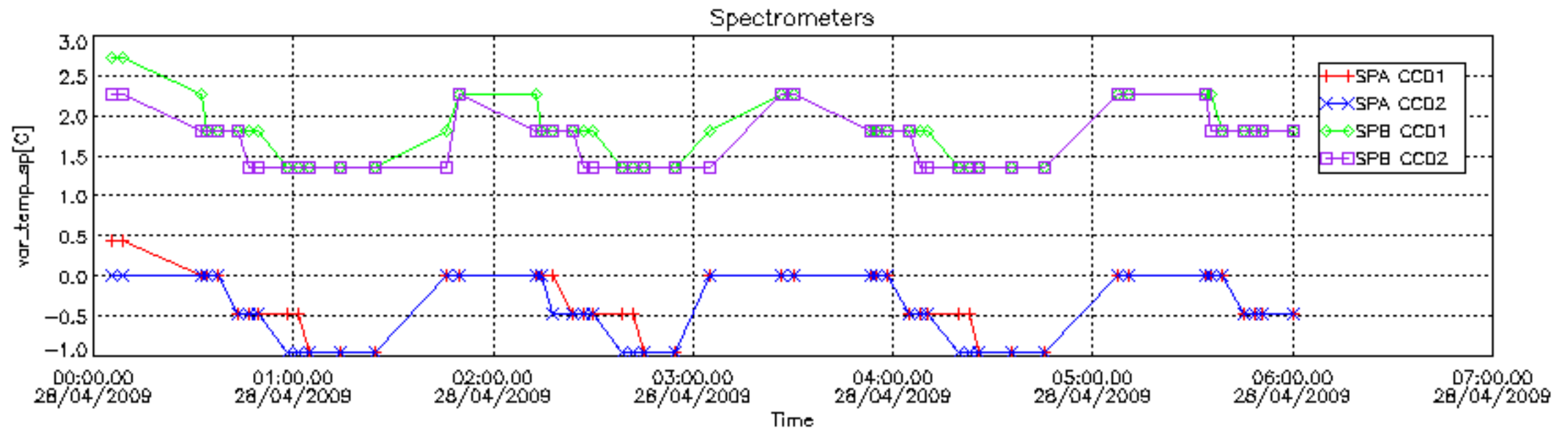
Lower curve: STD of SATU X axis

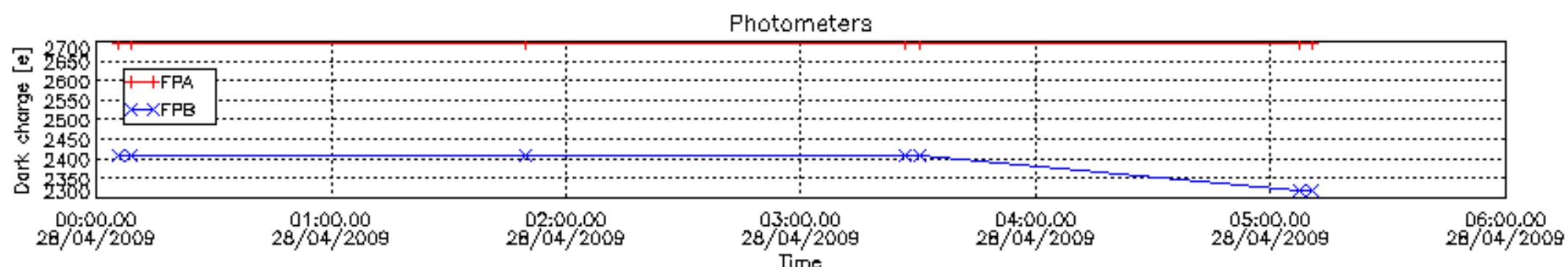
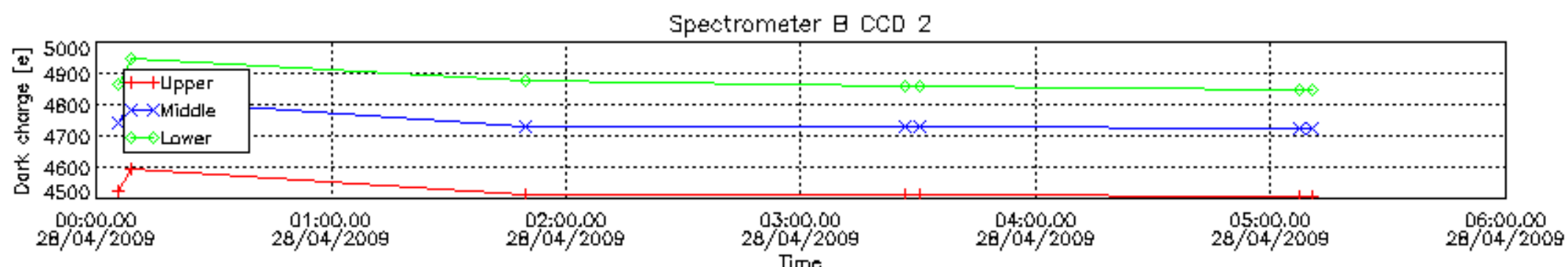
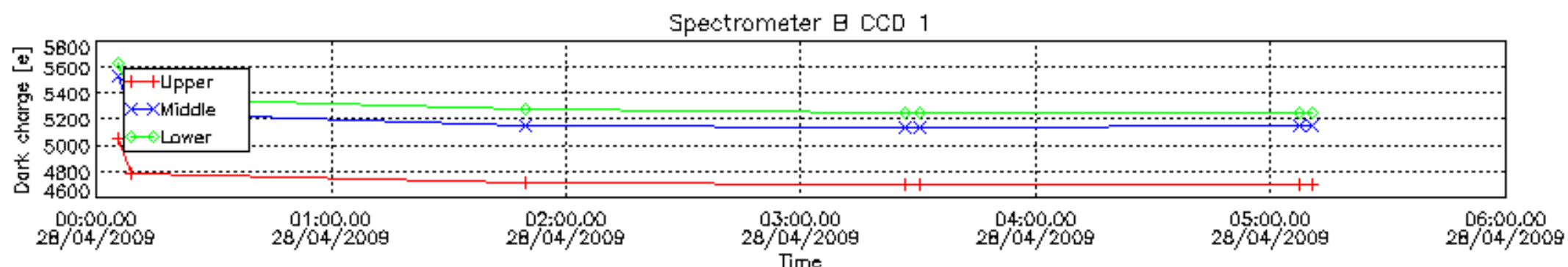
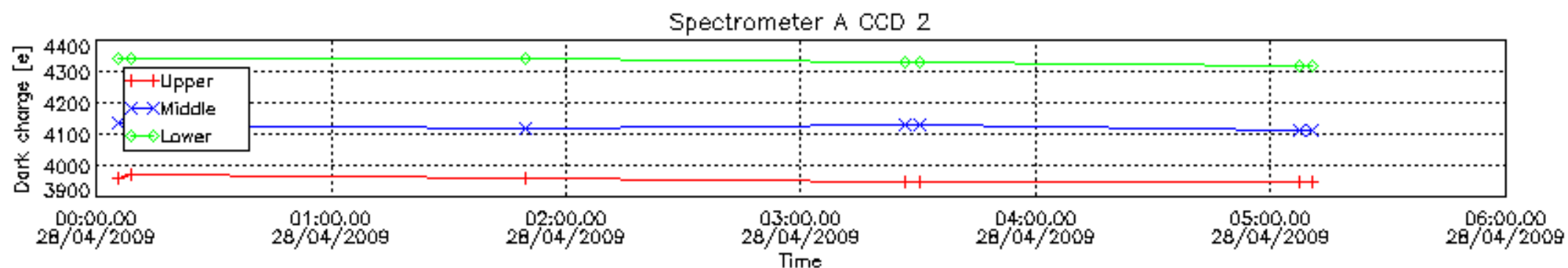
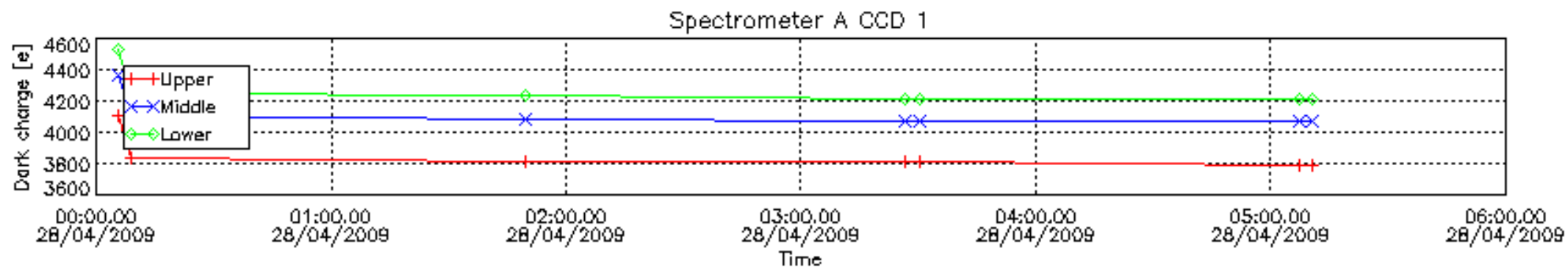


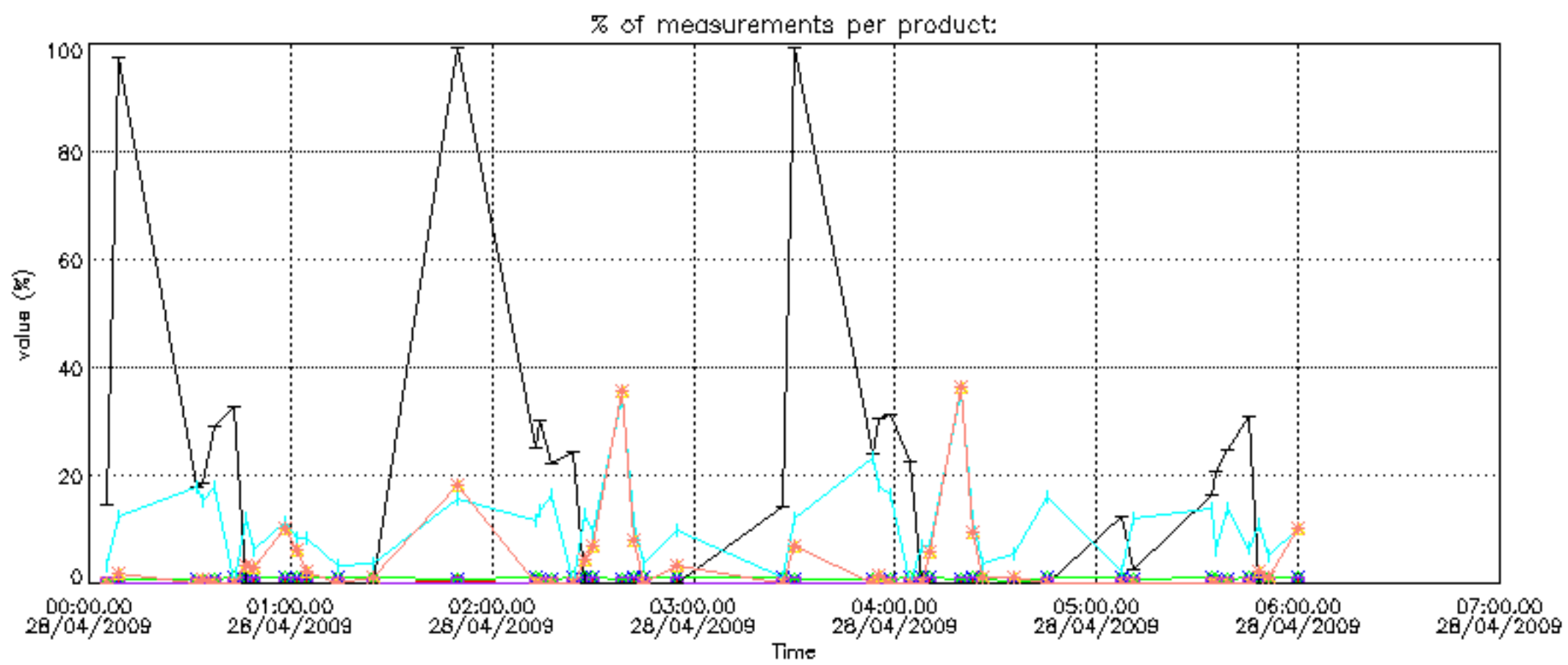
8. Auxiliary Data Files used for the production reported in section 2.4

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

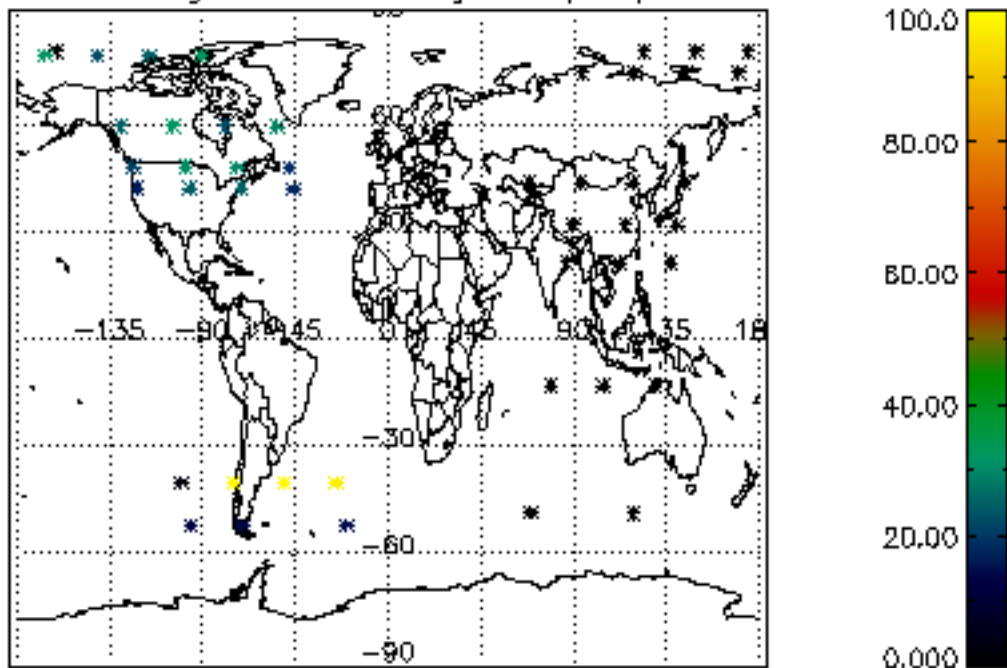
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	1	28-APR-2009 00:05:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-APR-2009 00:05:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-APR-2009 00:05:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-APR-2009 00:05:28
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ECMWF_FILE	AUX_ECF_AXNECM20090427_182113_20090428_030000_20090428_150000	26	28-APR-2009 03:04:53
OPTIONAL_ECMWF_FILE	MISSING	1	28-APR-2009 00:05:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090427_203904_000060572078_00300_37428_7838.N1	1	28-APR-2009 00:05:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090428_000617_000057382078_00302_37430_7840.N1	2	28-APR-2009 00:08:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090428_014155_000044632078_00303_37431_7841.N1	26	28-APR-2009 03:04:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090428_030137_000054192078_00304_37432_7842.N1	39	28-APR-2009 04:45:29



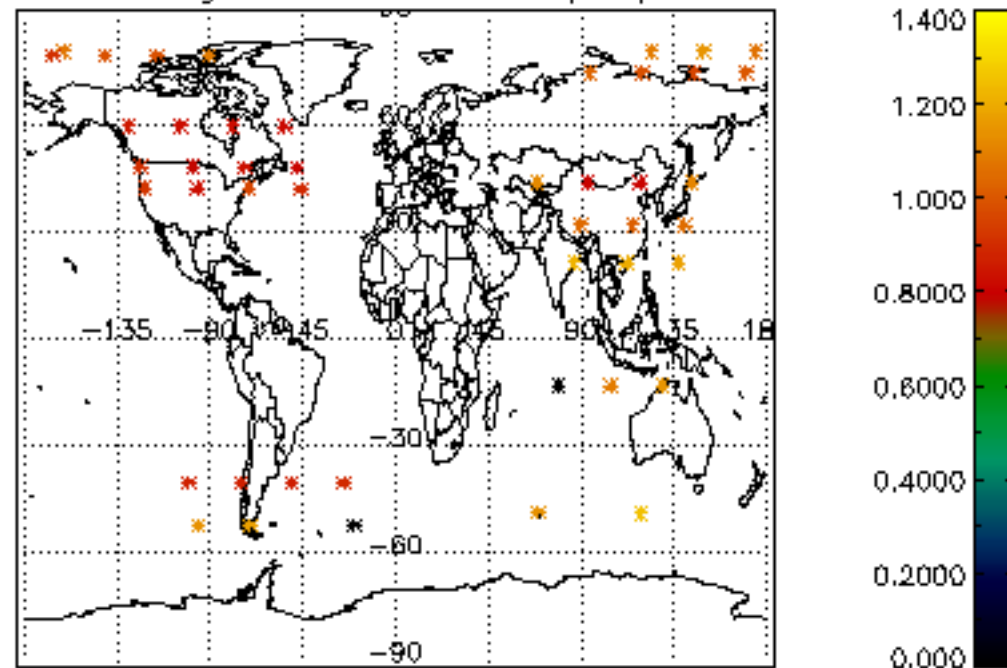




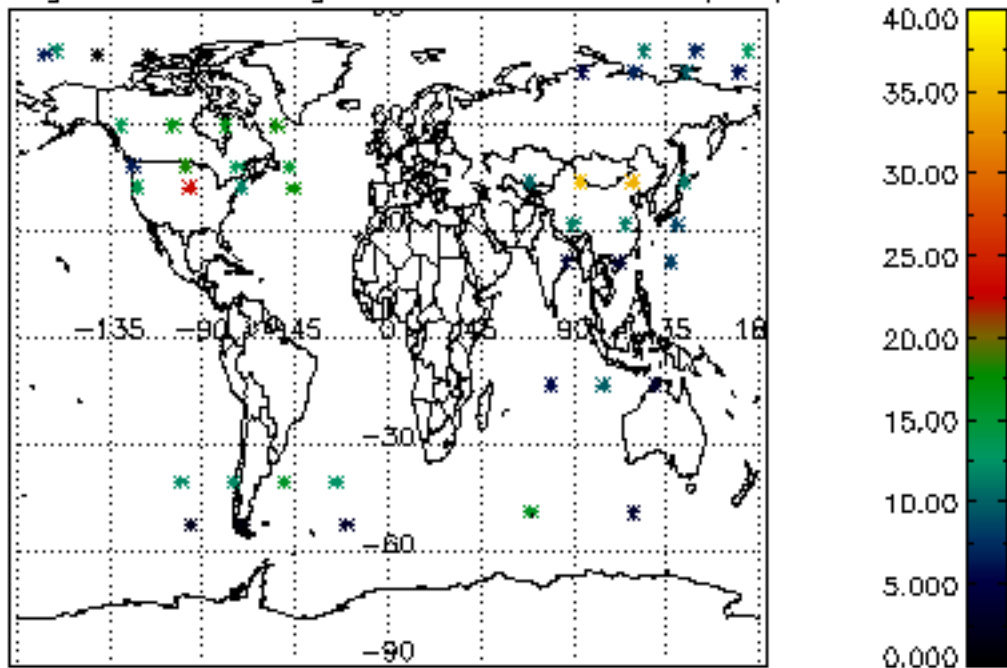
Percentage of cosmic ray hits per profile



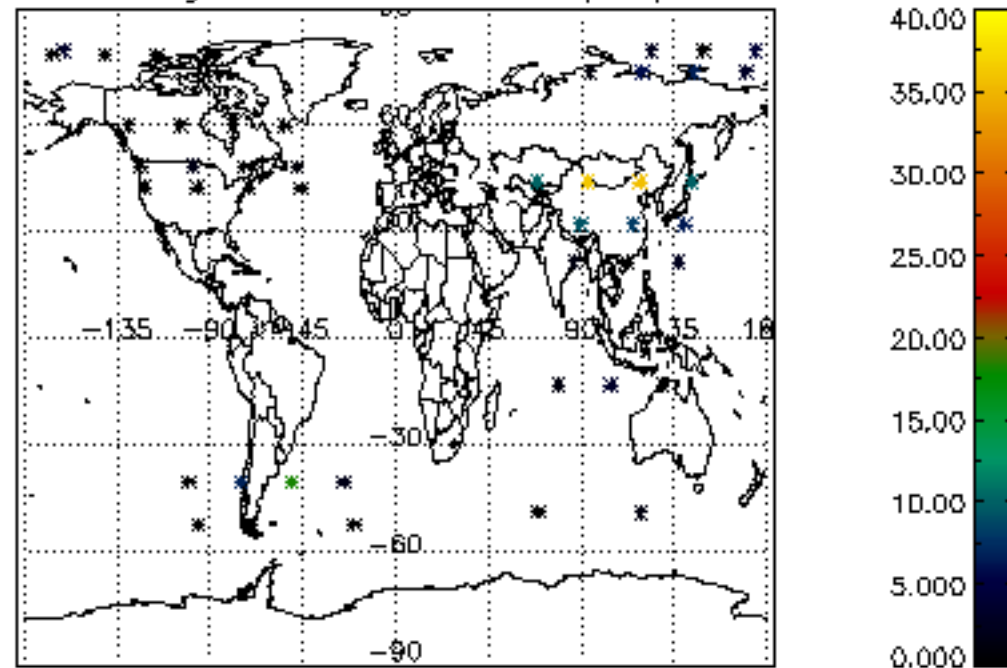
Percentage of datation errors per profile



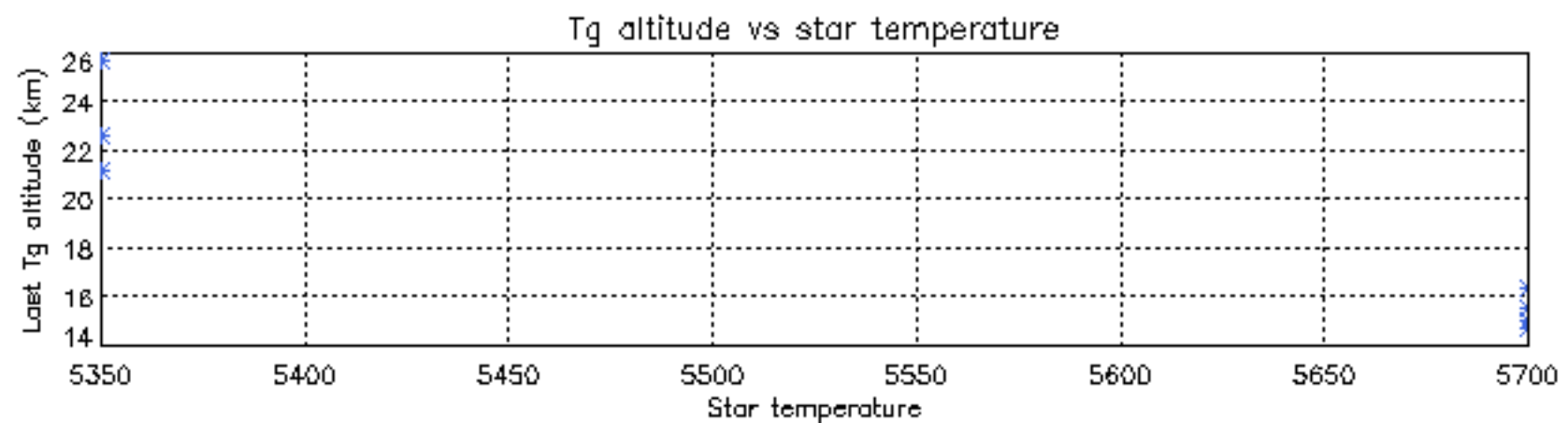
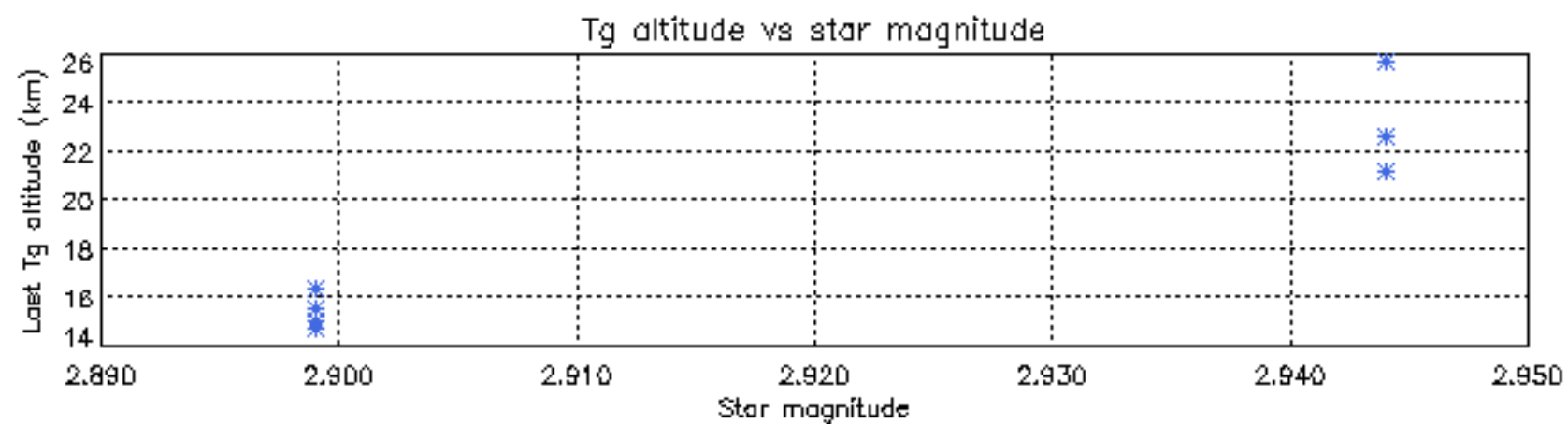
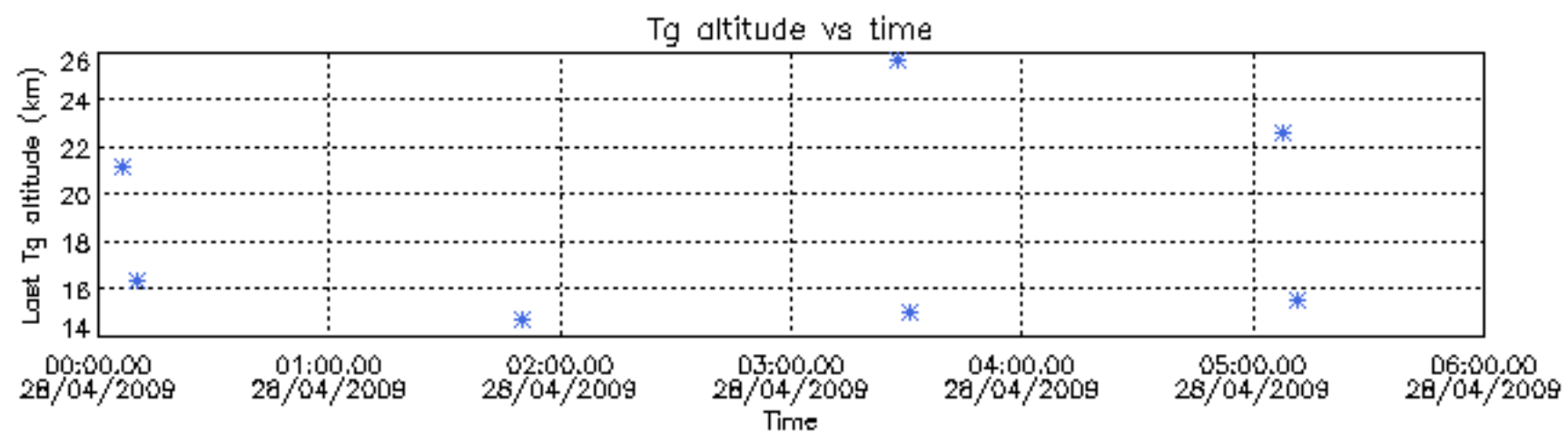
Percentage of star falling outside central band per profile



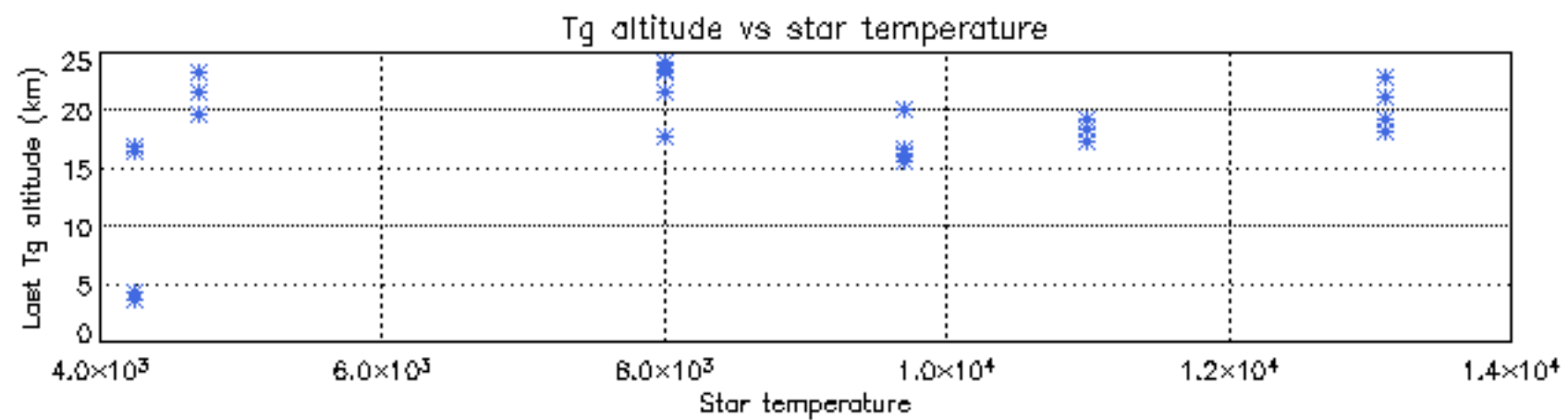
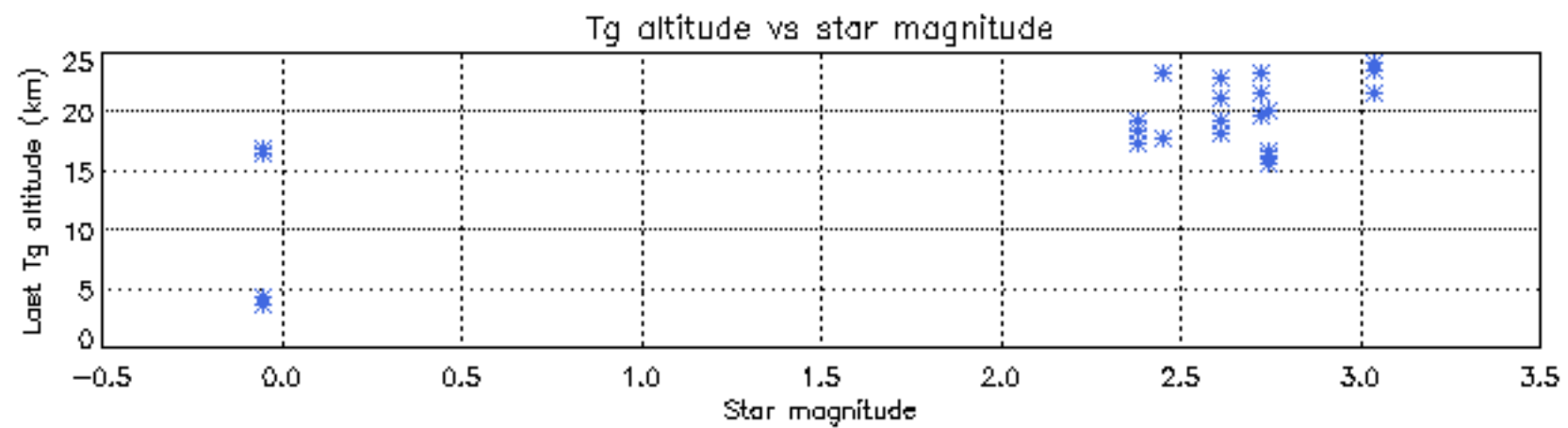
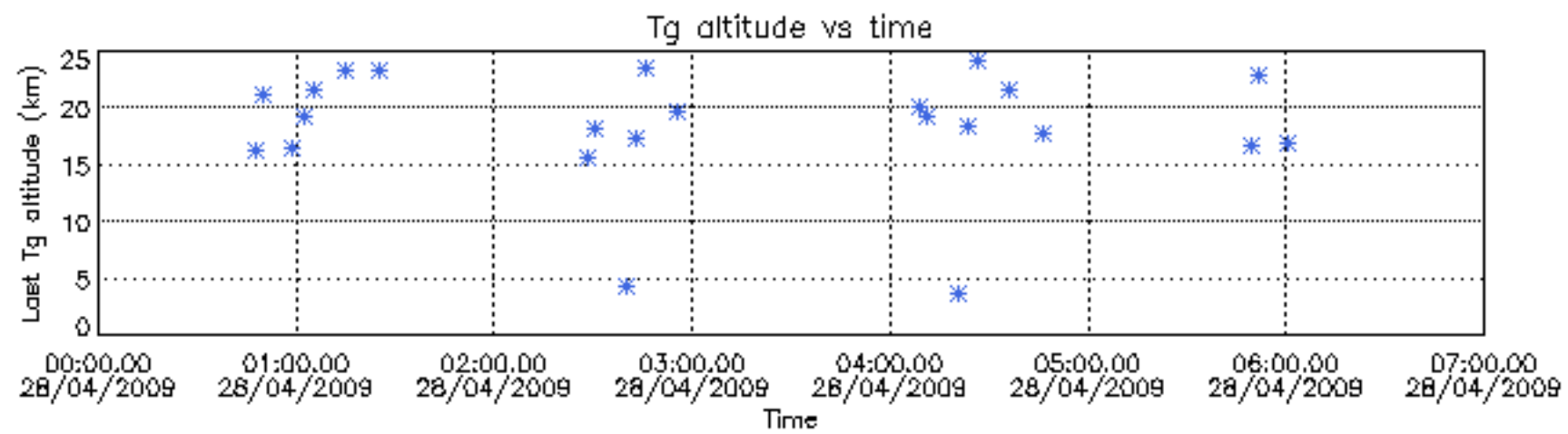
Percentage of saturation errors per profile

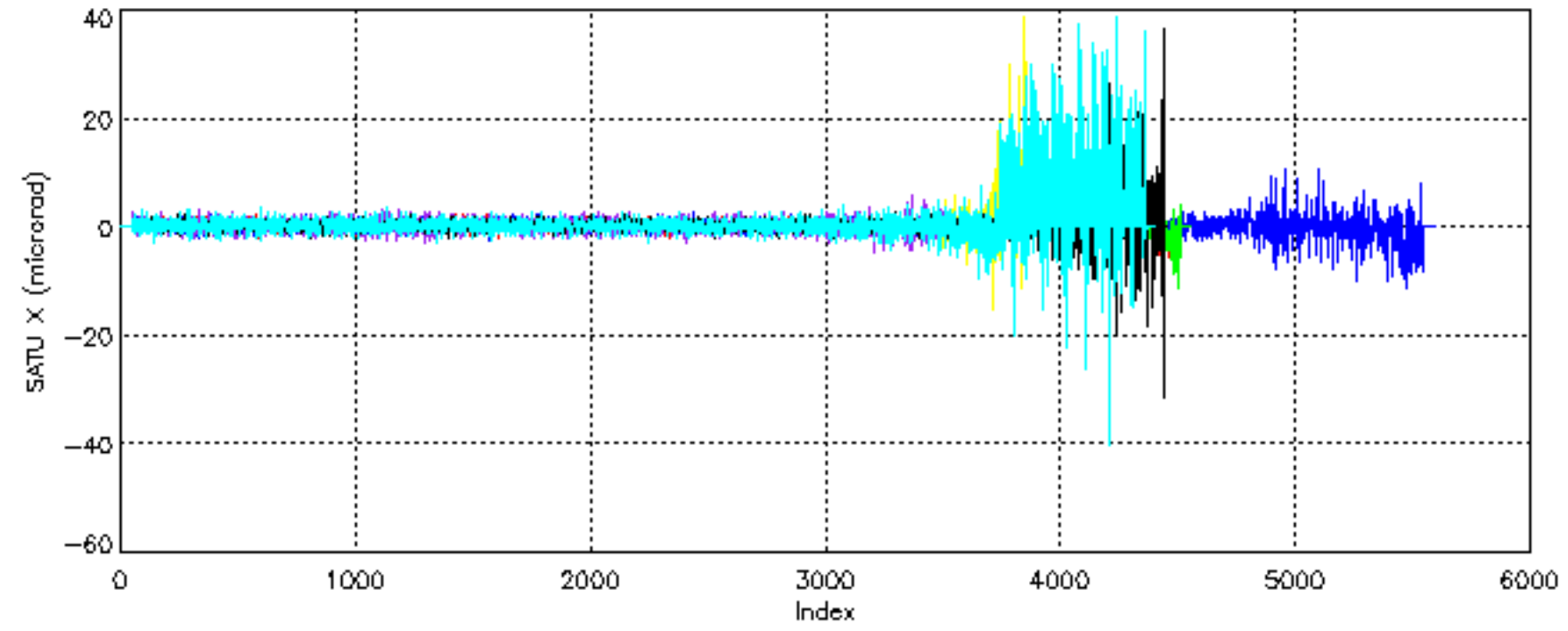


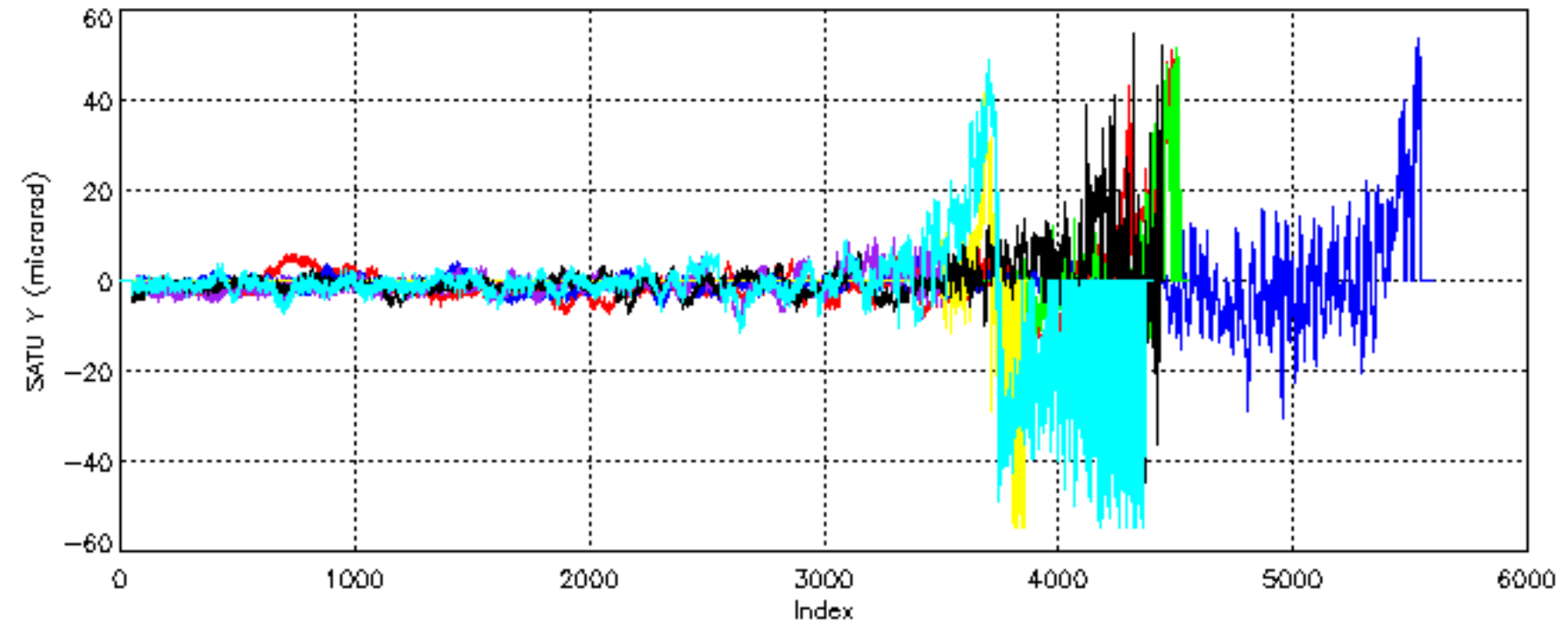
Tangent altitude at which the star is lost

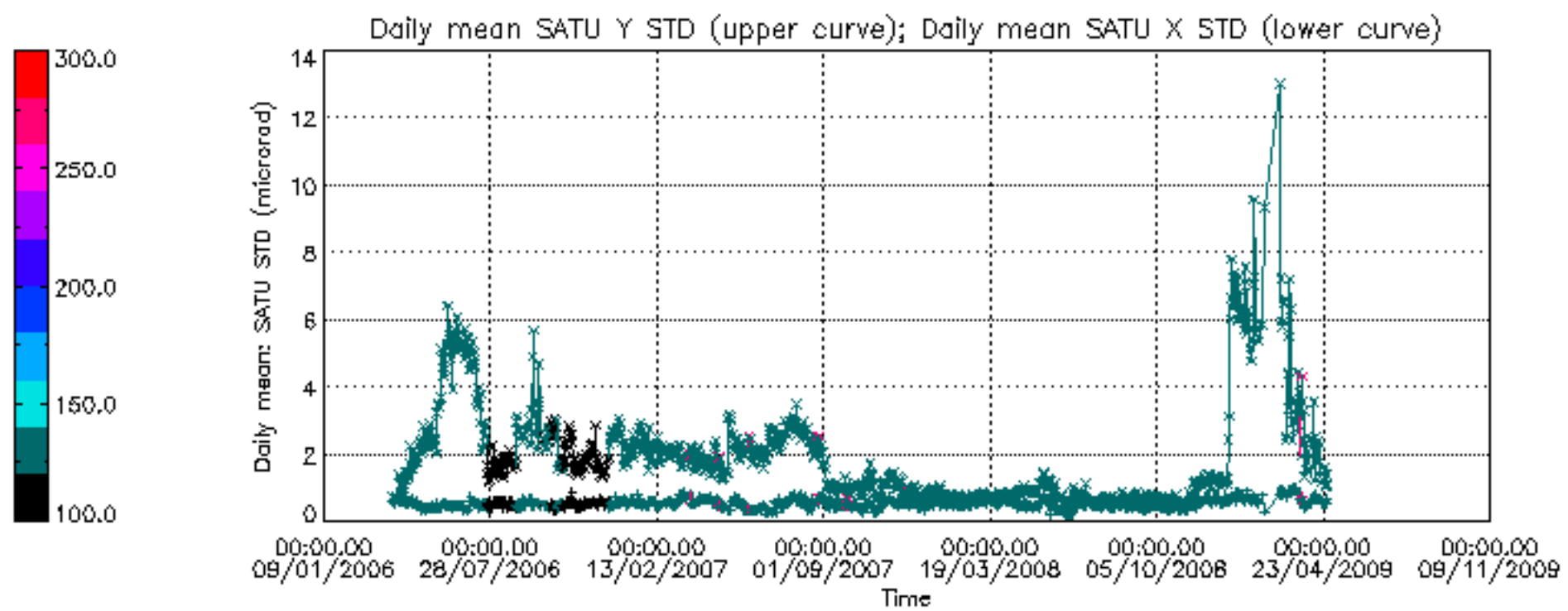


Tangent altitude at which the star is lost









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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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