

GOMOS Daily Report 06-JUL-2007

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	08JUL2007 05:52:17
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (06JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

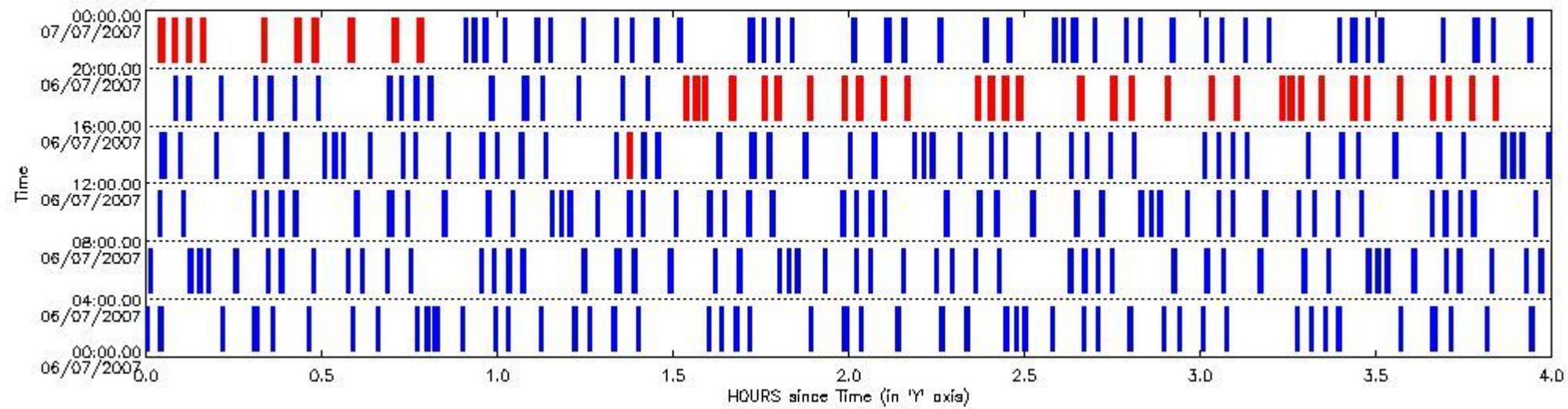
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
06-JUL-2007 13:22:00	45EpsPer	149	27962
06-JUL-2007 17:31:49	TheSco	40	27965
06-JUL-2007 17:33:29	35LamSco	25	27965
06-JUL-2007 17:34:55	19DelSgr	116	27965
06-JUL-2007 17:39:38	35EtaOph	86	27965
06-JUL-2007 17:45:06	60BetOph	126	27965
06-JUL-2007 17:47:24	55AlpOph	59	27965
06-JUL-2007 17:52:59	40ZetHer	133	27965
06-JUL-2007 17:58:43	23BetDra	130	27965
06-JUL-2007 18:01:20	14EtaDra	119	27965
06-JUL-2007 18:05:26	7BetUMi	60	27965
06-JUL-2007 18:09:28	1AlpUMi	49	27965
06-JUL-2007 18:21:31	39DelPer	175	27965
06-JUL-2007 18:23:48	45EpsPer	149	27965
06-JUL-2007 18:26:14	44ZetPer	150	27965

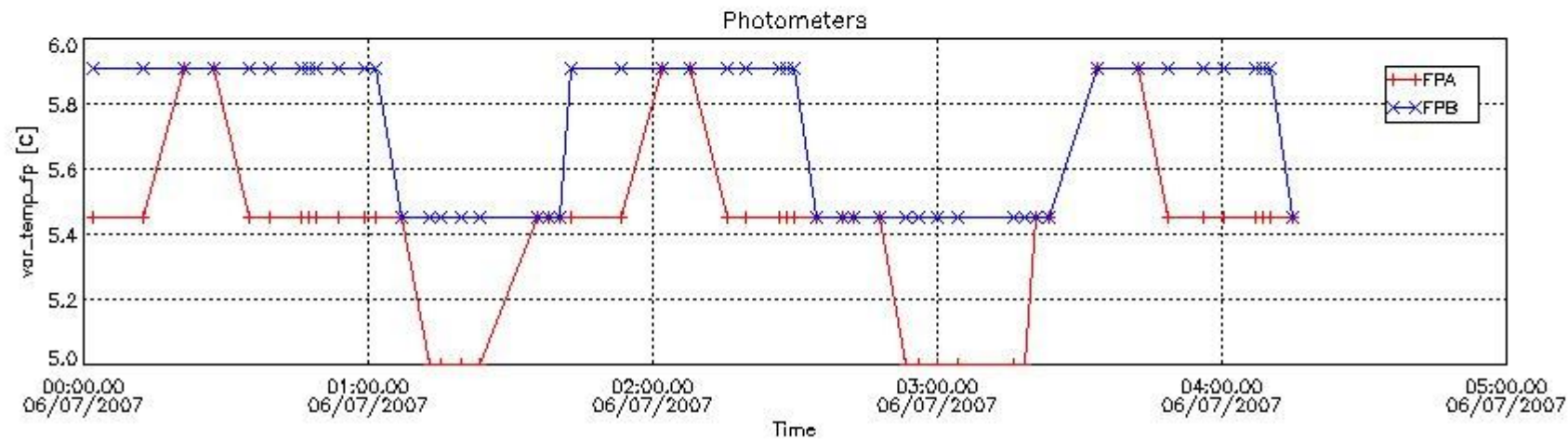
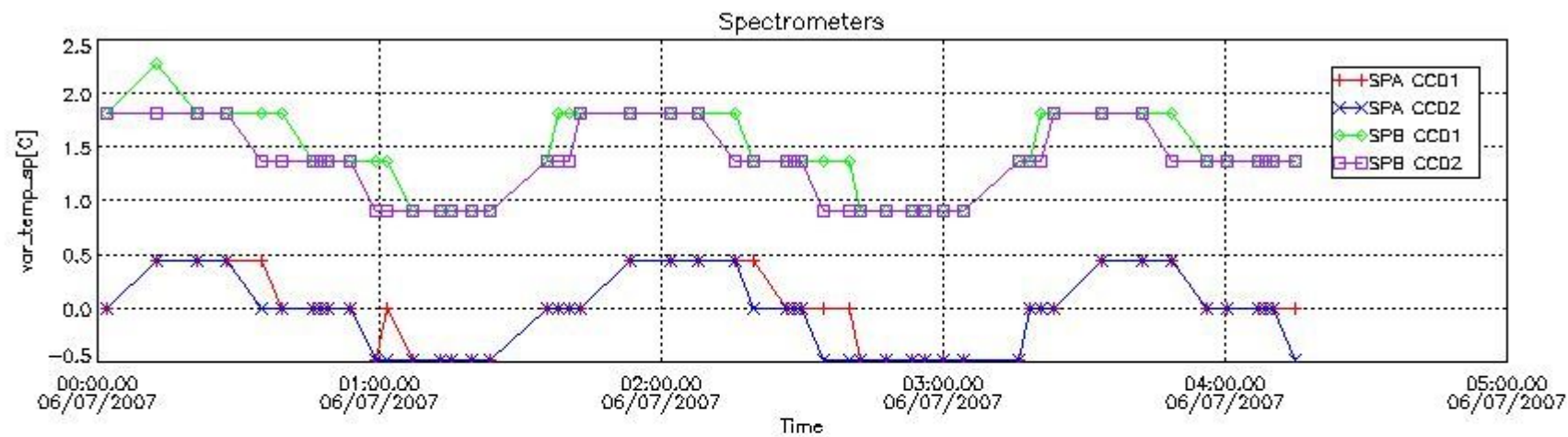
06-JUL-2007 18:28:37	25EtaTau	146	27965
06-JUL-2007 18:39:07	34GamEri	165	27965
06-JUL-2007 18:44:41	DSA1061	0	27965
06-JUL-2007 18:47:44	The1Eri	157	27965
06-JUL-2007 18:53:55	AlpEri	9	27966
06-JUL-2007 19:01:28	AlpTuc	148	27966
06-JUL-2007 19:05:40	AlpPav	45	27966
06-JUL-2007 19:13:27	KapSco	85	27966
06-JUL-2007 19:14:55	38ZetSgr	103	27966
06-JUL-2007 19:16:42	22LamSgr	137	27966
06-JUL-2007 19:20:14	35EtaOph	86	27966
06-JUL-2007 19:25:42	60BetOph	126	27966
06-JUL-2007 19:28:00	55AlpOph	59	27966
06-JUL-2007 19:33:35	40ZetHer	133	27966
06-JUL-2007 19:39:18	23BetDra	130	27966
06-JUL-2007 19:41:56	14EtaDra	119	27966
06-JUL-2007 19:46:02	7BetUMi	60	27966
06-JUL-2007 19:50:04	1AlpUMi	49	27966
06-JUL-2007 20:02:07	39DelPer	175	27966
06-JUL-2007 20:04:24	45EpsPer	149	27966
06-JUL-2007 20:06:50	44ZetPer	150	27966
06-JUL-2007 20:09:13	25EtaTau	146	27966
06-JUL-2007 20:19:44	34GamEri	165	27966
06-JUL-2007 20:25:18	DSA1061	0	27966
06-JUL-2007 20:28:20	The1Eri	157	27966
06-JUL-2007 20:34:31	AlpEri	9	27967
06-JUL-2007 20:42:04	AlpTuc	148	27967
06-JUL-2007 20:46:17	AlpPav	45	27967

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_1PNPDE20070706_000208_000000412059_00345_27954_3481.N1	06-JUL-2007 00:02:08	Twilight	40.500	146	25Eta Tau	2.8730	15200.	81	27954	No
2	GOM_TRA_1PNPDE20070706_001237_000000432059_00345_27954_3482.N1	06-JUL-2007 00:12:37	Dark	43.000	165	34Gam Eri	2.9500	3200.0	86	27954	No
3	GOM_TRA_1PNPDE20070706_002111_000000422059_00345_27954_3599.N1	06-JUL-2007 00:21:11	Dark	41.500	157	The1Eri	2.9060	9300.0	83	27954	No
4	GOM_TRA_1PNPDE20070706_002722_000000432059_00346_27955_3600.N1	06-JUL-2007 00:27:22	Dark	43.000	9	Alp Eri	0.45300	24000.	86	27955	No
5	GOM_TRA_1PNPDE20070706_003455_000000402059_00346_27955_3601.N1	06-JUL-2007 00:34:55	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	27955	No
6	GOM_TRA_1PNPDE20070706_003909_000000482059_00346_27955_3602.N1	06-JUL-2007 00:39:09	Straylight	47.500	45	Alp Pav	1.9400	26000.	95	27955	No
7	GOM_TRA_1PNPDE20070706_004556_000000412059_00346_27955_3603.N1	06-JUL-2007 00:45:56	Twilight_and_stray	41.000	40	The Sco	1.8590	7100.0	82	27955	No
8	GOM_TRA_1PNPDE20070706_004736_000000392059_00346_27955_3604.N1	06-JUL-2007 00:47:36	Twilight_and_stray	39.000	25	35Lam Sco	1.6200	28000.	78	27955	No
9	GOM_TRA_1PNPDE20070706_004902_000000542059_00346_27955_3605.N1	06-JUL-2007 00:49:02	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	27955	No
10	GOM_TRA_1PNPDE20070706_005345_000000372059_00346_27955_3606.N1	06-JUL-2007 00:53:45	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27955	No
11	GOM_TRA_1PNPDE20070706_005915_000000362059_00346_27955_3607.N1	06-JUL-2007 00:59:15	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27955	No
12	GOM_TRA_1PNPDE20070706_010133_000000372059_00346_27955_3608.N1	06-JUL-2007 01:01:33	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	27955	No
13	GOM_TRA_1PNPDE20070706_010707_000000362059_00346_27955_3609.N1	06-JUL-2007 01:07:07	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	27955	No
14	GOM_TRA_1PNPDE20070706_011253_000000372059_00346_27955_3610.N1	06-JUL-2007 01:12:53	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	27955	No
15	GOM_TRA_1PNPDE20070706_011529_000000352059_00346_27955_3611.N1	06-JUL-2007 01:15:29	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	27955	No
16	GOM_TRA_1PNPDE20070706_011934_000000362059_00346_27955_3612.N1	06-JUL-2007 01:19:34	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27955	No
17	GOM_TRA_1PNPDE20070706_012337_000000362059_00346_27955_3613.N1	06-JUL-2007 01:23:37	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	27955	No
18	GOM_TRA_1PNPDE20070706_013540_000000352059_00346_27955_3614.N1	06-JUL-2007 01:35:40	Bright	34.500	175	39Del Per	3.0100	19400.	69	27955	No
19	GOM_TRA_1PNPDE20070706_013756_000000362059_00346_27955_3615.N1	06-JUL-2007 01:37:56	Bright	36.000	149	45Eps Per	2.8880	30000.	72	27955	No
20	GOM_TRA_1PNPDE20070706_014022_000000412059_00346_27955_3616.N1	06-JUL-2007 01:40:22	Bright	40.500	150	44Zet Per	2.8900	28000.	81	27955	No
21	GOM_TRA_1PNPDE20070706_014244_000000392059_00346_27955_3617.N1	06-JUL-2007 01:42:44	Twilight	38.500	146	25Eta Tau	2.8730	15200.	77	27955	No
22	GOM_TRA_1PNPDE20070706_015313_000000392059_00346_27955_3728.N1	06-JUL-2007 01:53:13	Dark	39.000	165	34Gam Eri	2.9500	3200.0	78	27955	No
23	GOM_TRA_1PNPDE20070706_020147_000000402059_00346_27955_3729.N1	06-JUL-2007 02:01:47	Dark	39.500	157	The1Eri	2.9060	9300.0	79	27955	No
24	GOM_TRA_1PNPDE20070706_020758_000000522059_00347_27956_3730.N1	06-JUL-2007 02:07:58	Dark	52.000	9	Alp Eri	0.45300	24000.	104	27956	No
25	GOM_TRA_1PNPDE20070706_021531_000000402059_00347_27956_3731.N1	06-JUL-2007 02:15:31	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	27956	No
26	GOM_TRA_1PNPDE20070706_021945_000000412059_00347_27956_3732.N1	06-JUL-2007 02:19:45	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27956	No

27	GOM_TRA_1PNPDE20070706_022632_000000432059_00347_27956_3733.N1	06-JUL-2007 02:26:32	Twilight	43.000	40	The Sco	1.8590	7100.0	86	27956	No
28	GOM_TRA_1PNPDE20070706_022812_000000412059_00347_27956_3734.N1	06-JUL-2007 02:28:12	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	27956	No
29	GOM_TRA_1PNPDE20070706_022939_000000442059_00347_27956_3735.N1	06-JUL-2007 02:29:39	Bright	43.500	116	19Del Sgr	2.7000	4100.0	87	27956	No
30	GOM_TRA_1PNPDE20070706_023421_000000372059_00347_27956_3736.N1	06-JUL-2007 02:34:21	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27956	No
31	GOM_TRA_1PNPDE20070706_023951_000000362059_00347_27956_3737.N1	06-JUL-2007 02:39:51	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27956	No
32	GOM_TRA_1PNPDE20070706_024209_000000362059_00347_27956_3738.N1	06-JUL-2007 02:42:09	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	27956	No
33	GOM_TRA_1PNPDE20070706_024743_000000352059_00347_27956_3739.N1	06-JUL-2007 02:47:43	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	27956	No
34	GOM_TRA_1PNPDE20070706_025329_000000382059_00347_27956_3740.N1	06-JUL-2007 02:53:29	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	27956	No
35	GOM_TRA_1PNPDE20070706_025604_000000322059_00347_27956_3741.N1	06-JUL-2007 02:56:04	Bright	32.000	119	14Eta Dra	2.7270	4700.0	64	27956	No
36	GOM_TRA_1PNPDE20070706_030010_000000342059_00347_27956_3742.N1	06-JUL-2007 03:00:10	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	27956	No
37	GOM_TRA_1PNPDE20070706_030413_000000352059_00347_27956_3743.N1	06-JUL-2007 03:04:13	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27956	No
38	GOM_TRA_1PNPDE20070706_031616_000000332059_00347_27956_3894.N1	06-JUL-2007 03:16:16	Bright	33.000	175	39Del Per	3.0100	19400.	66	27956	No
39	GOM_TRA_1PNPDE20070706_031832_000000372059_00347_27956_3895.N1	06-JUL-2007 03:18:32	Bright	36.500	149	45Eps Per	2.8880	30000.	73	27956	No
40	GOM_TRA_1PNPDE20070706_032058_000000392059_00347_27956_3896.N1	06-JUL-2007 03:20:58	Bright	39.000	150	44Zet Per	2.8900	28000.	78	27956	No
41	GOM_TRA_1PNPDE20070706_032320_000000402059_00347_27956_3897.N1	06-JUL-2007 03:23:20	Twilight	40.000	146	25Eta Tau	2.8730	15200.	80	27956	No
42	GOM_TRA_1PNPDE20070706_033349_000000402059_00347_27956_3898.N1	06-JUL-2007 03:33:49	Dark	39.500	165	34Gam Eri	2.9500	3200.0	79	27956	No
43	GOM_TRA_1PNPDE20070706_034224_000000422059_00347_27956_3899.N1	06-JUL-2007 03:42:24	Dark	42.000	157	The1Eri	2.9060	9300.0	84	27956	No
44	GOM_TRA_1PNPDE20070706_034835_000000452059_00348_27957_3900.N1	06-JUL-2007 03:48:35	Dark	44.500	9	Alp Eri	0.45300	24000.	89	27957	No
45	GOM_TRA_1PNPDE20070706_035608_000000442059_00348_27957_3901.N1	06-JUL-2007 03:56:08	Straylight	43.500	148	Alp Tuc	2.8780	4100.0	87	27957	No
46	GOM_TRA_1PNPDE20070706_040021_000000422059_00348_27957_3902.N1	06-JUL-2007 04:00:21	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	27957	No
47	GOM_TRA_1PNPDE20070706_040708_000000472059_00348_27957_3903.N1	06-JUL-2007 04:07:08	Twilight	46.500	40	The Sco	1.8590	7100.0	93	27957	No
48	GOM_TRA_1PNPDE20070706_040848_000000402059_00348_27957_3904.N1	06-JUL-2007 04:08:48	Twilight	40.000	25	35Lam Sco	1.6200	28000.	80	27957	No
49	GOM_TRA_1PNPDE20070706_041015_000000432059_00348_27957_3905.N1	06-JUL-2007 04:10:15	Bright	43.000	116	19Del Sgr	2.7000	4100.0	86	27957	No
50	GOM_TRA_1PNPDE20070706_041458_000000372059_00348_27957_3906.N1	06-JUL-2007 04:14:58	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27957	No

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



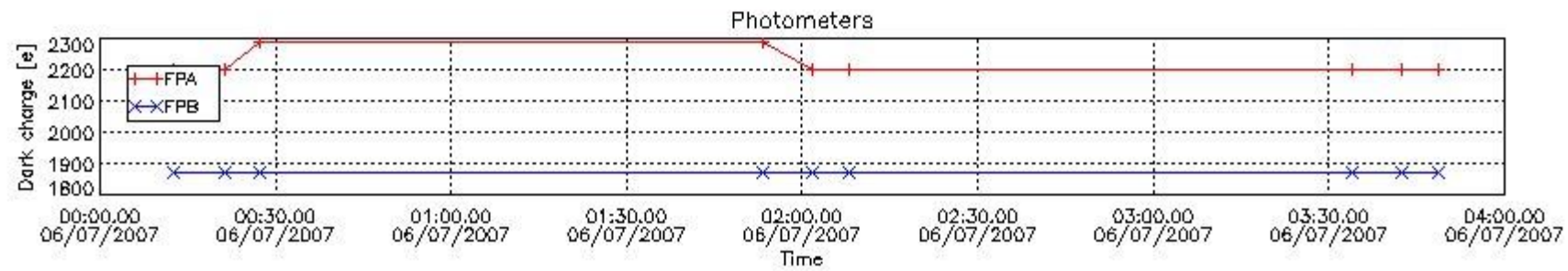
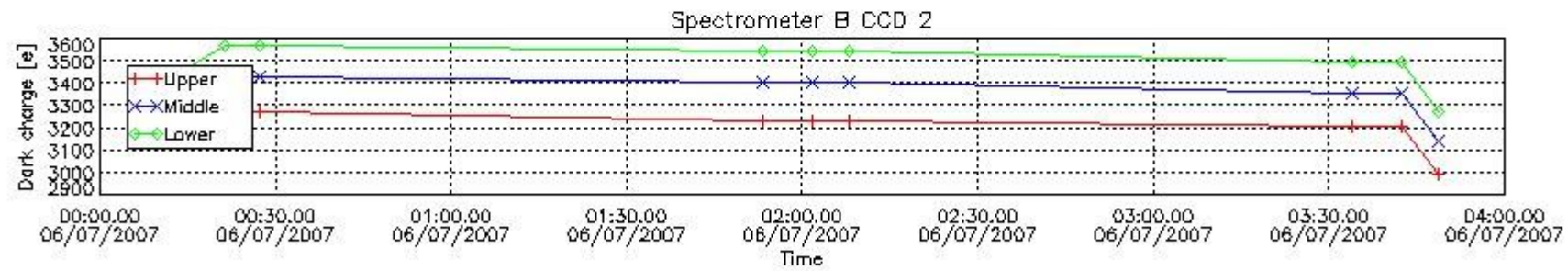
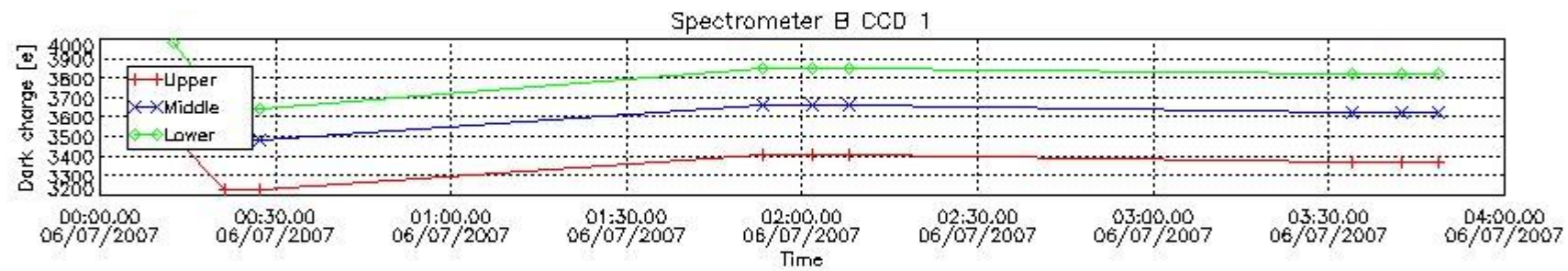
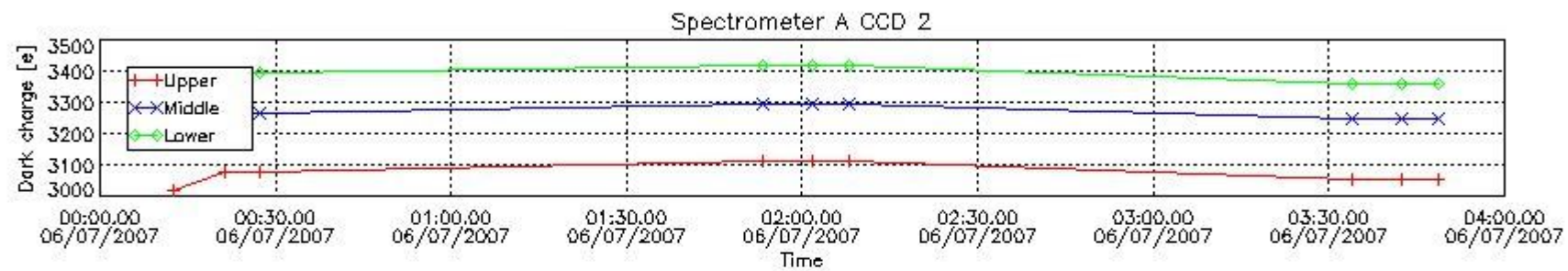
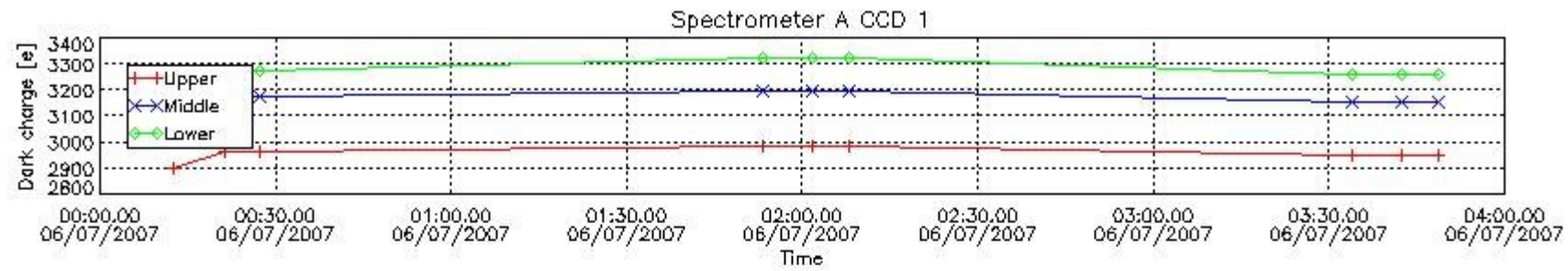
4. Overview of dark signal processing per product

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



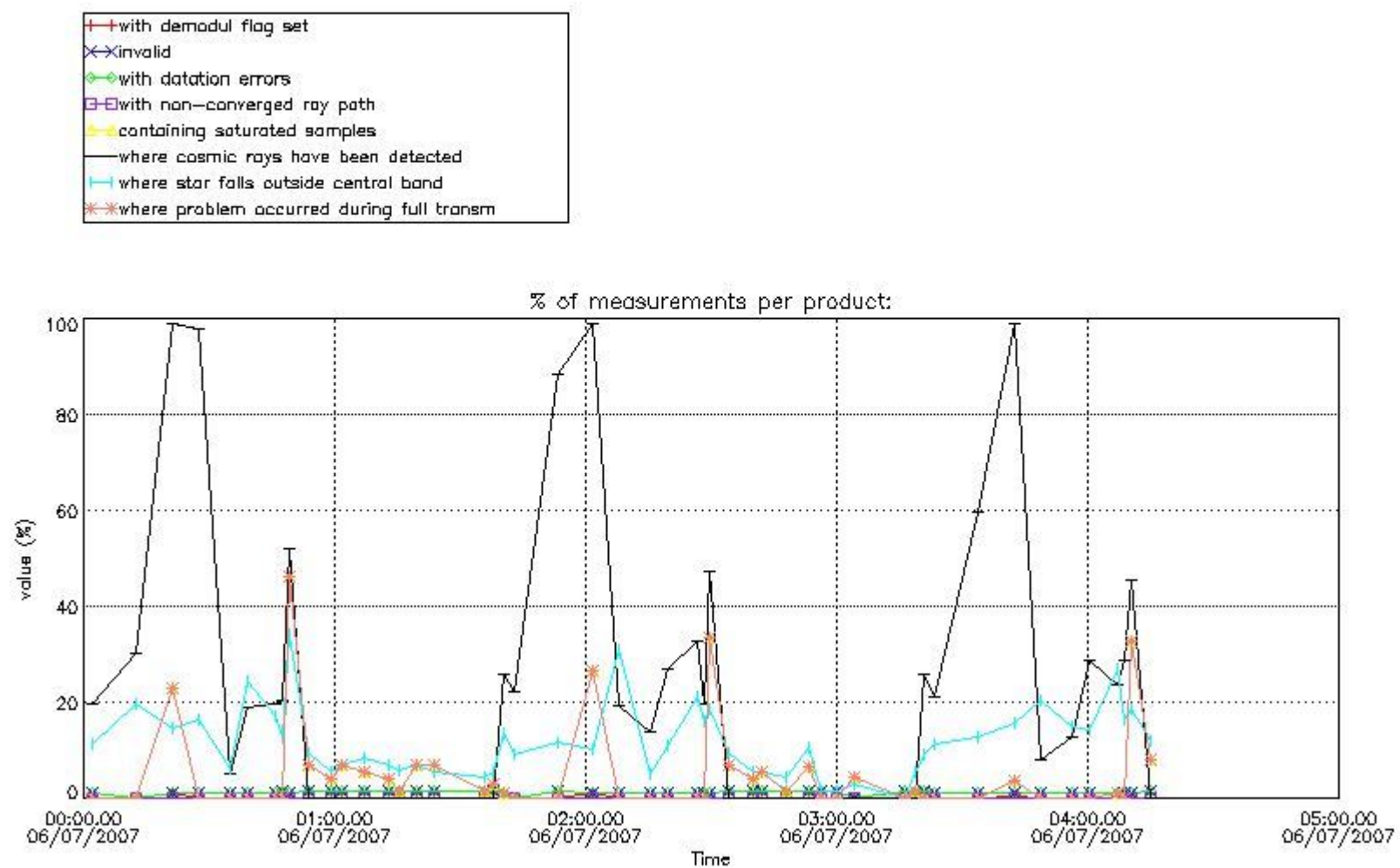
5. Demodulation flag and quality information monitoring

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.

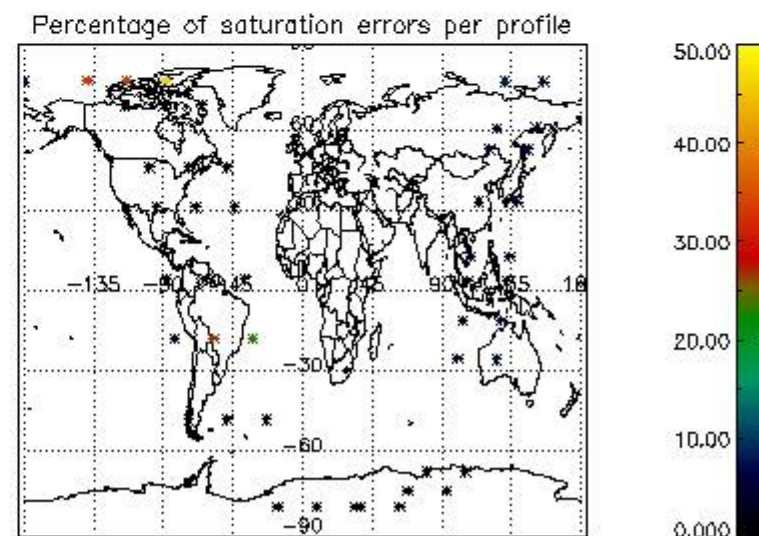
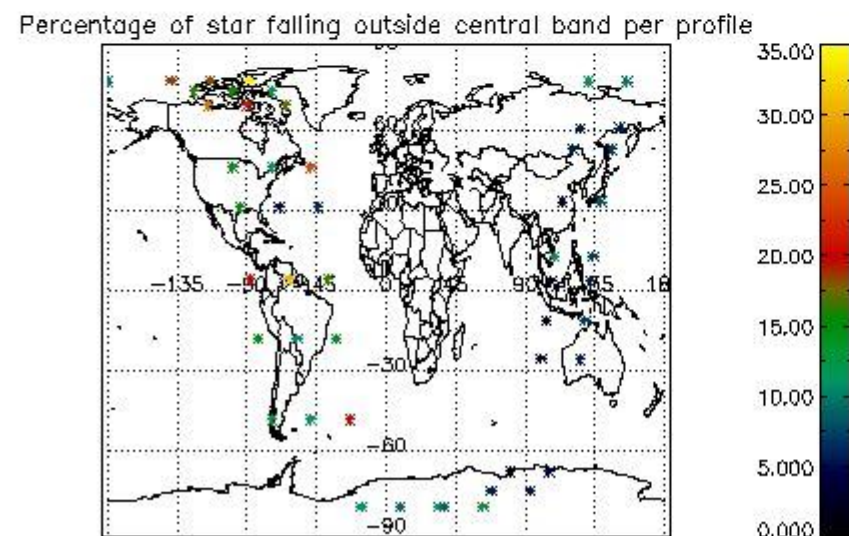
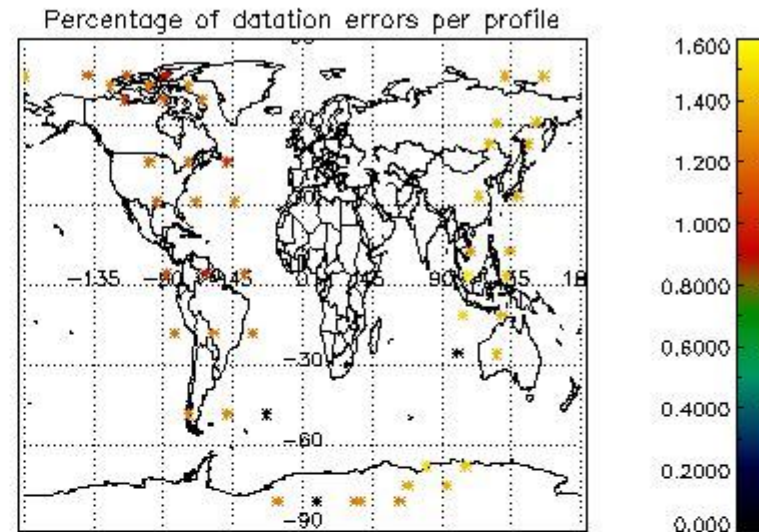
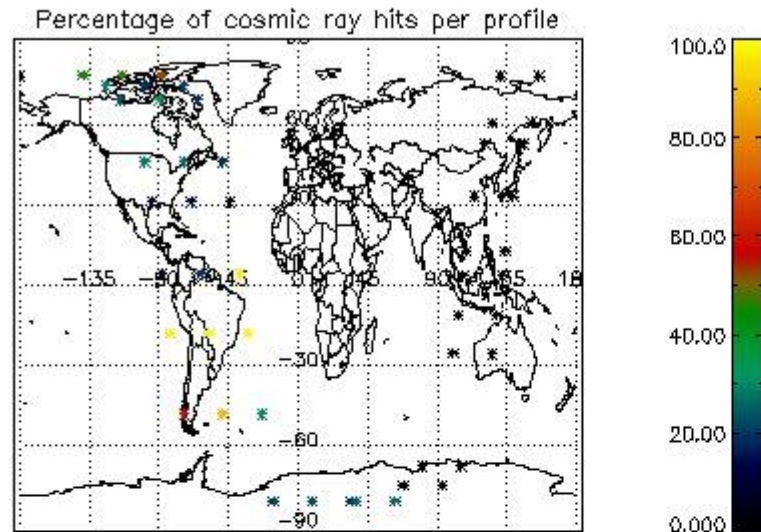
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
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)



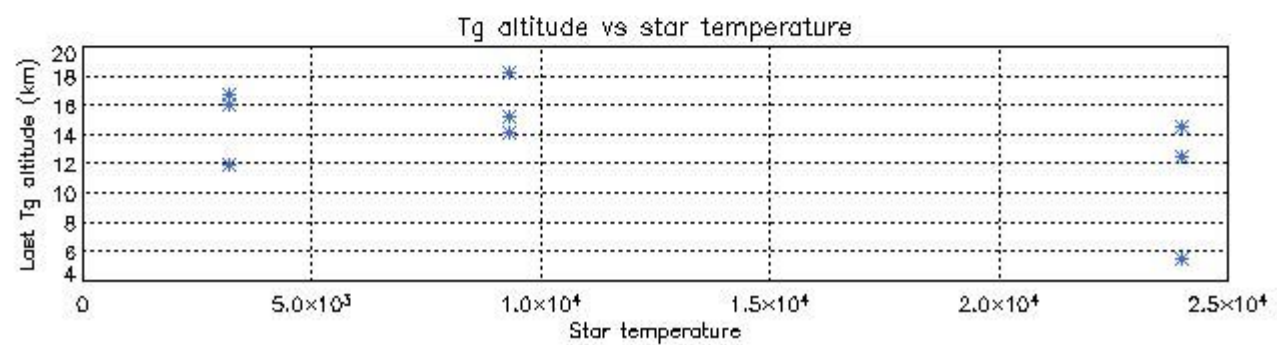
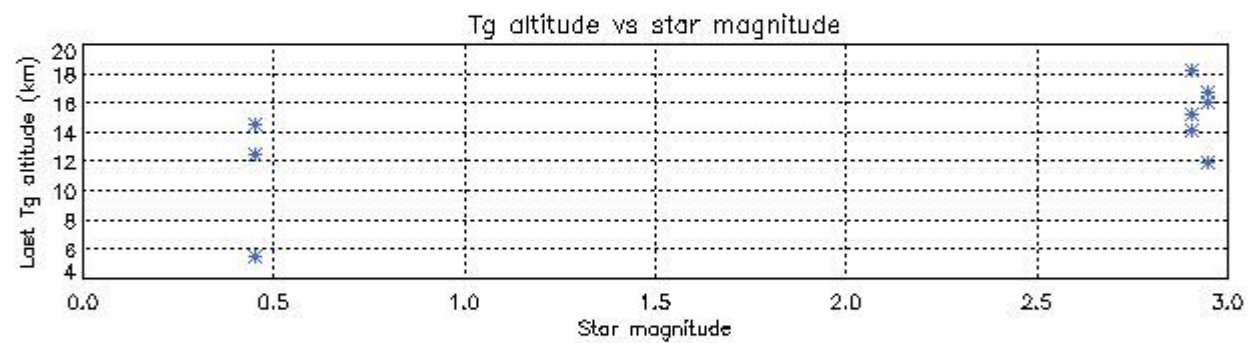
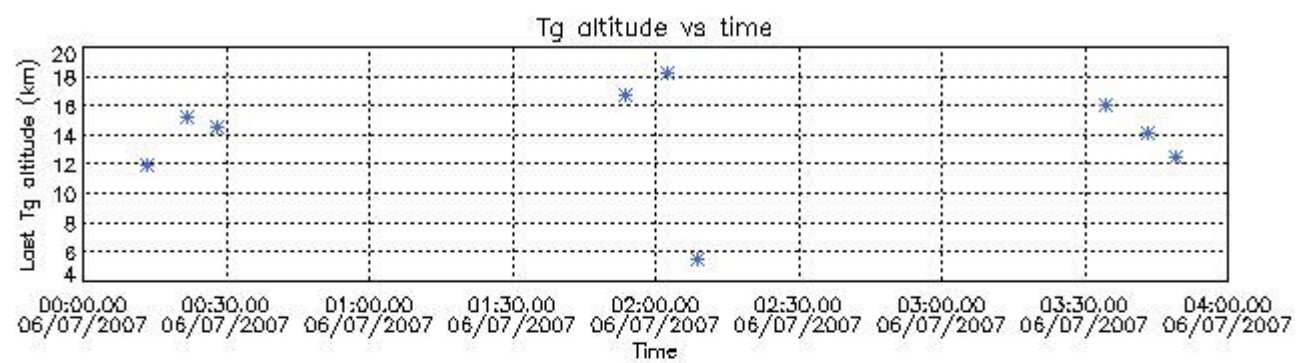
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.857	20.285	17.244
St. deviation:	3.7207	5.4322	1.4513
Maximum:	18.217	31.193	18.888
Minimum:	5.4534	4.0473	16.142
Number of data:	9.0000	26.000	3.0000

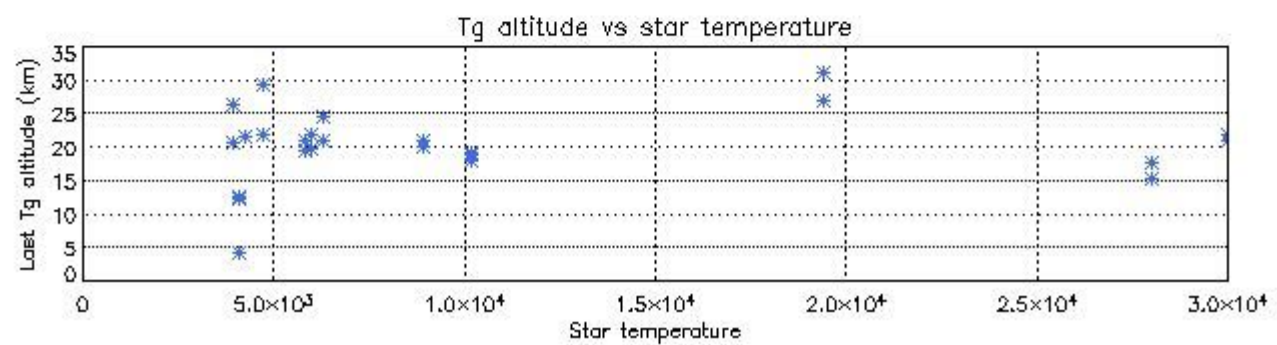
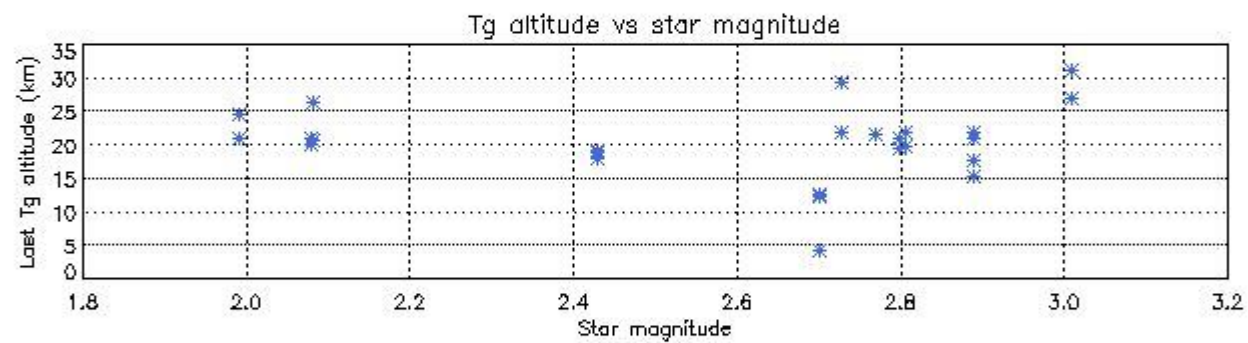
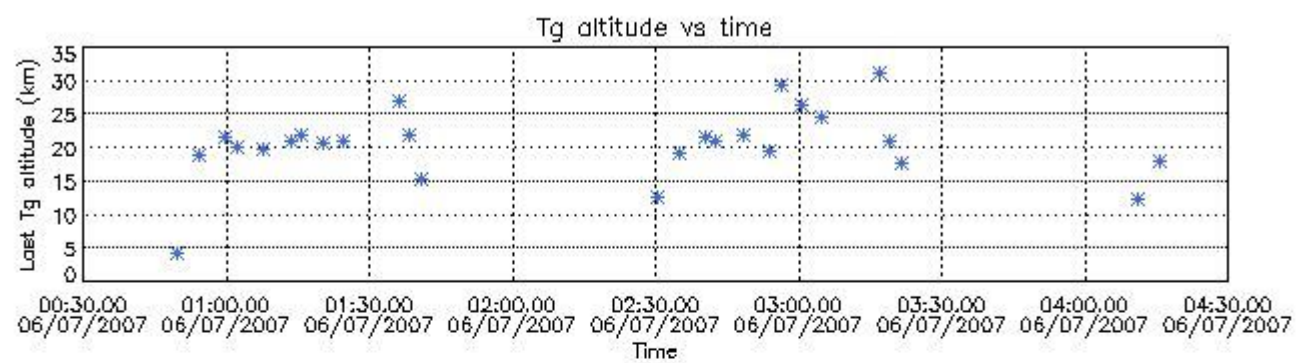
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



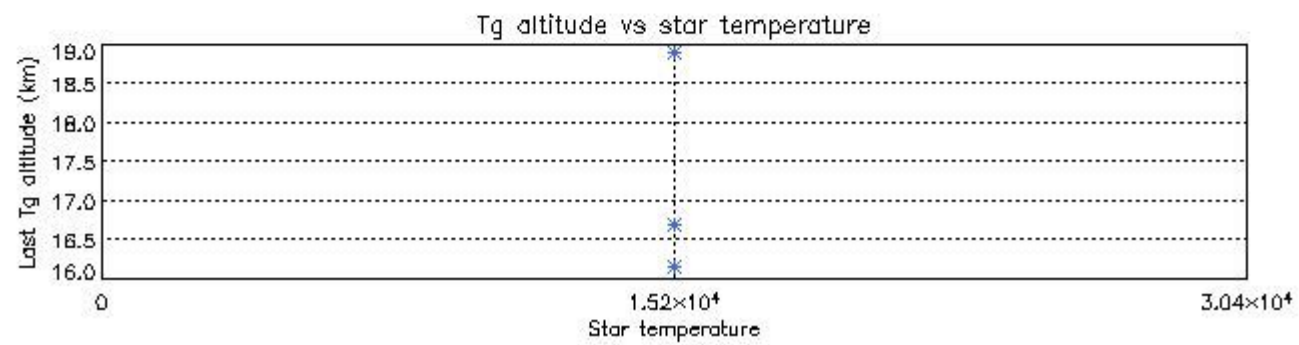
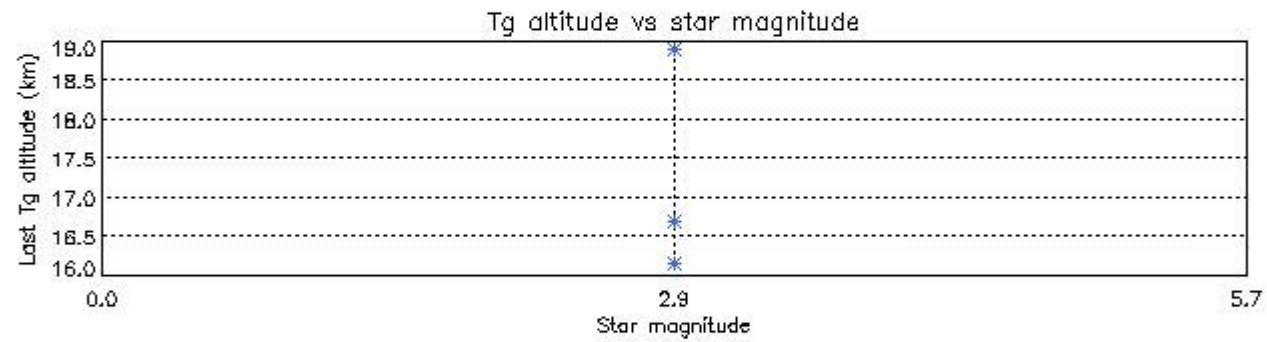
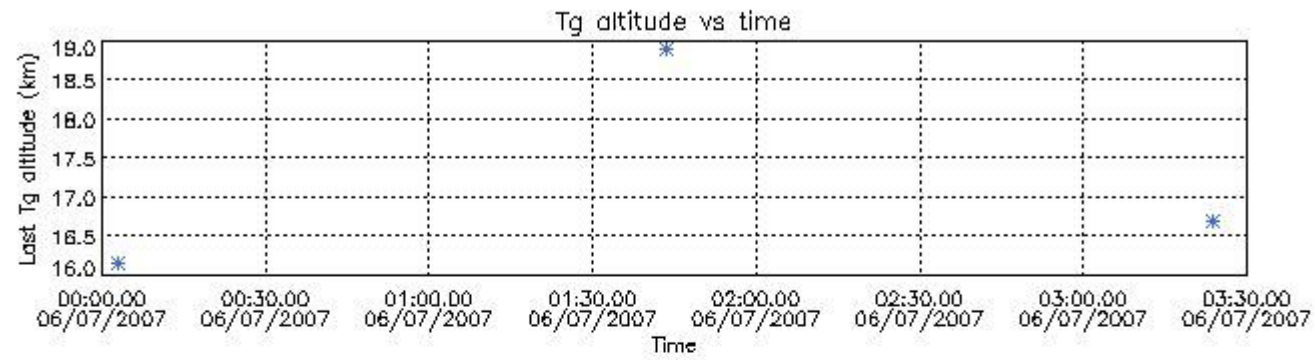
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

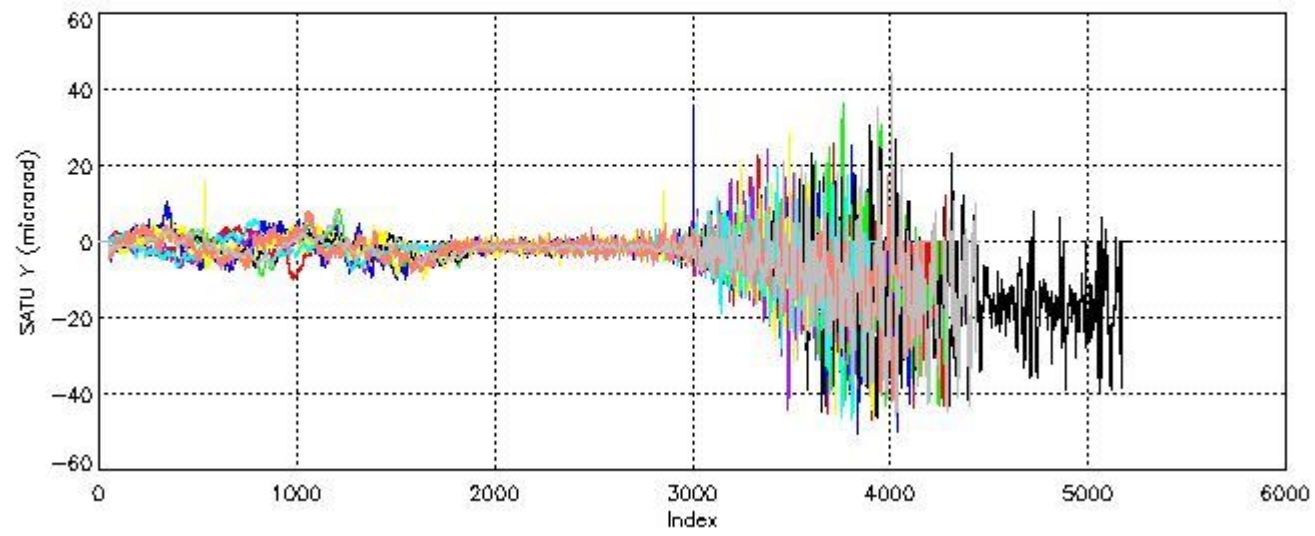
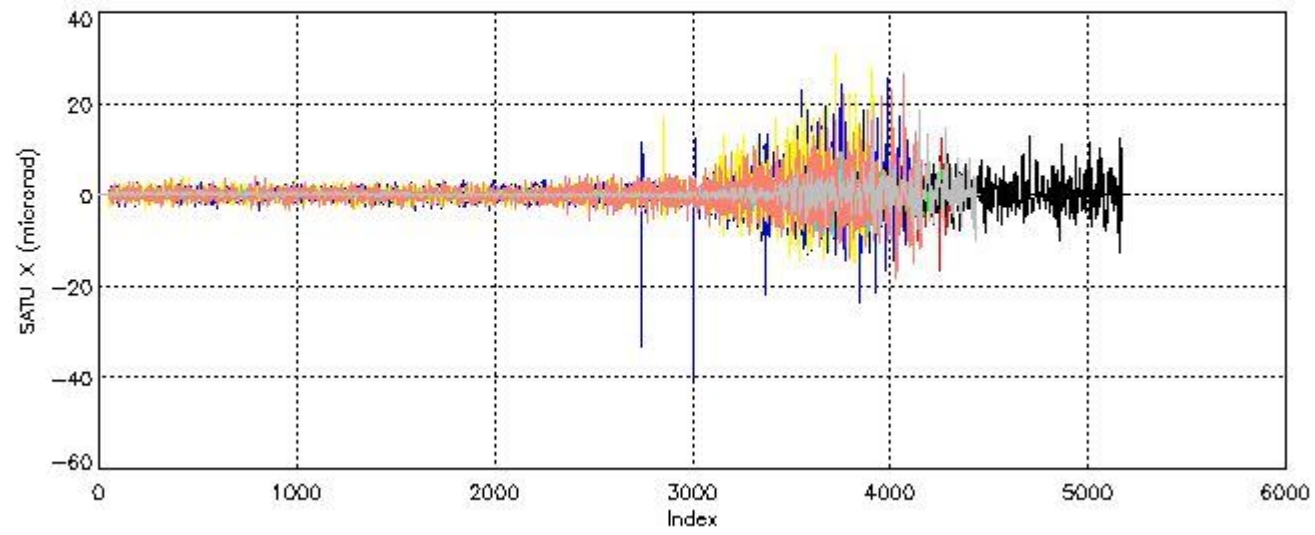


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10428	-0.97149	0.073312	-1.0555
St. deviation:	0.52670	2.5874	0.83255	2.6919
Maximum:	4.2000	15.600	6.6000	9.1000
Minimum:	-3.3000	-8.9000	-5.5000	-10.600

Number of data:	8250.0	8250.0	21700.	21700.
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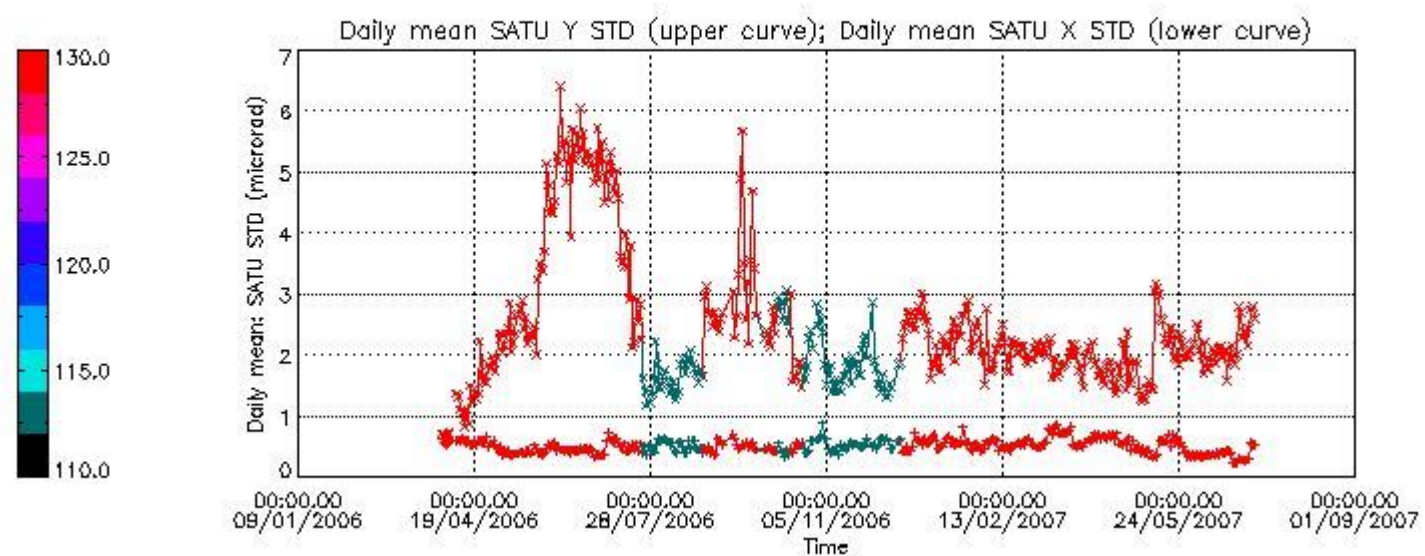
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

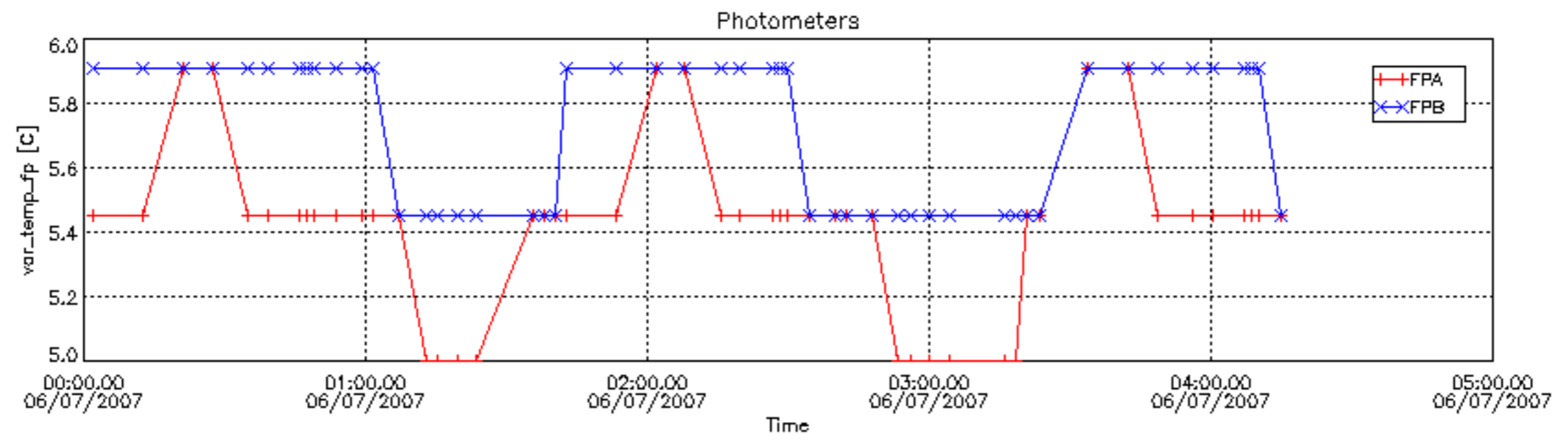
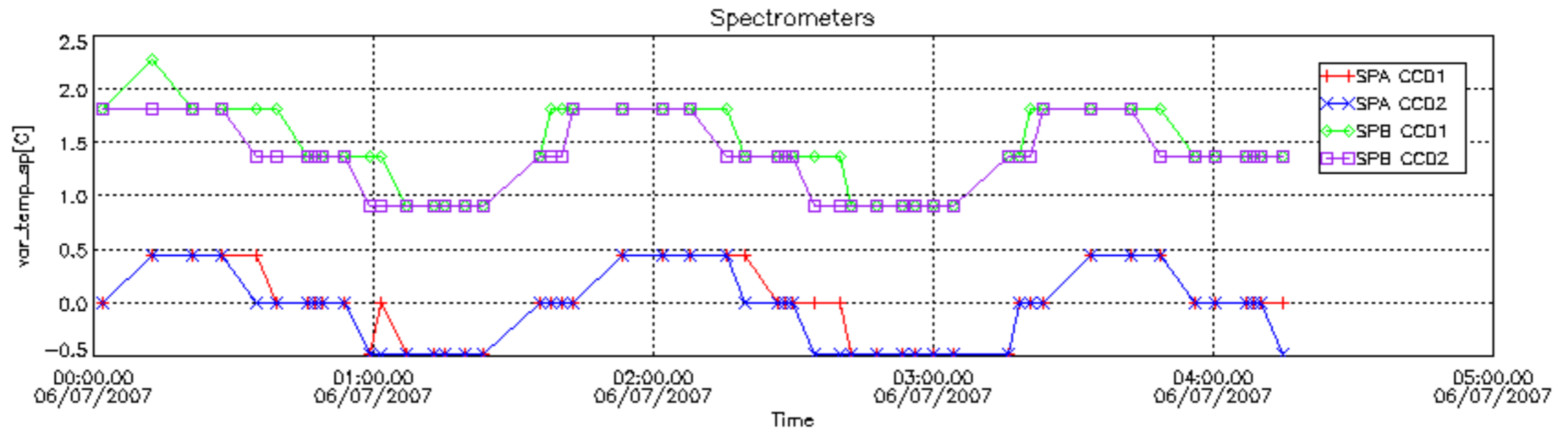
Lower curve: STD of SATU X axis

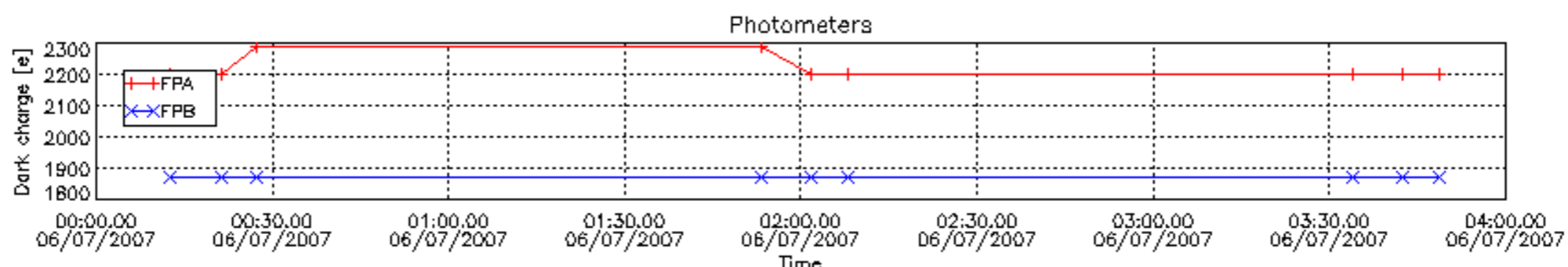
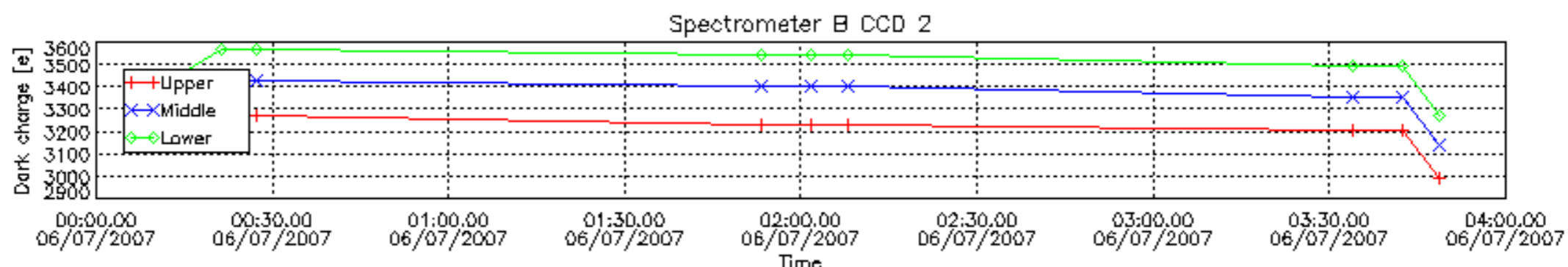
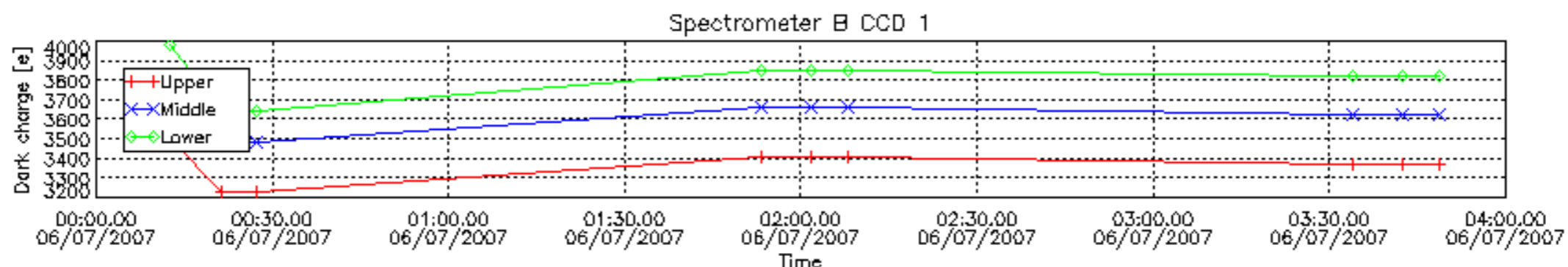
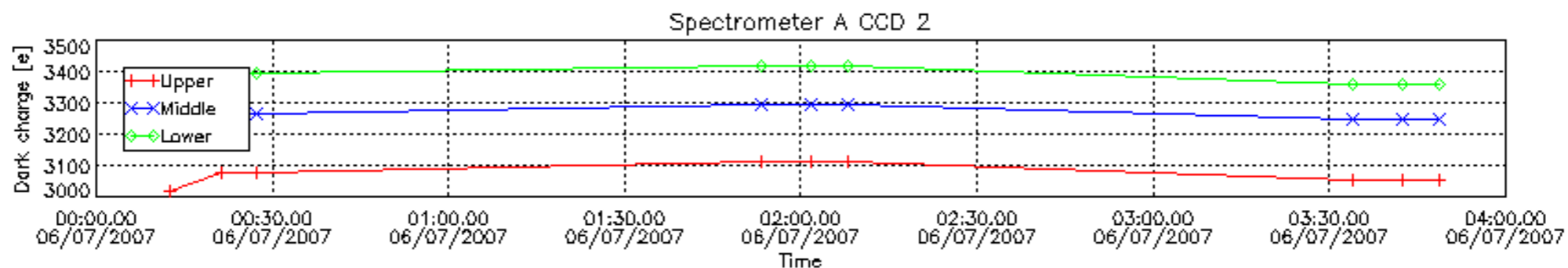
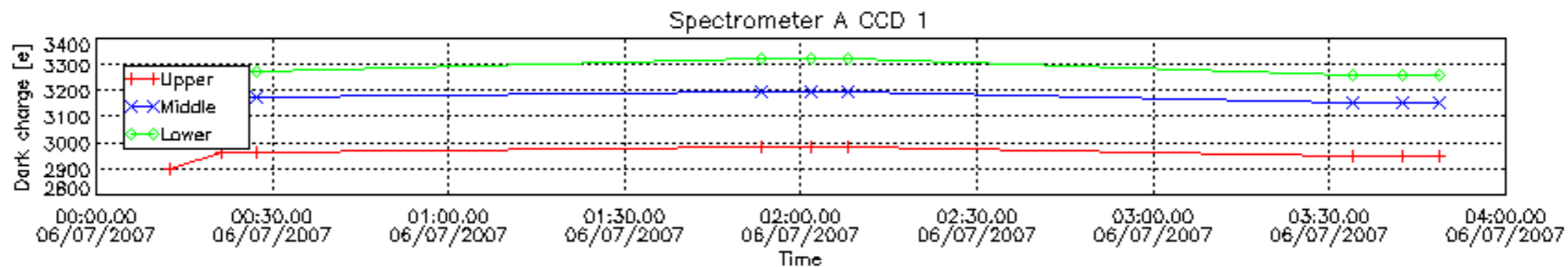


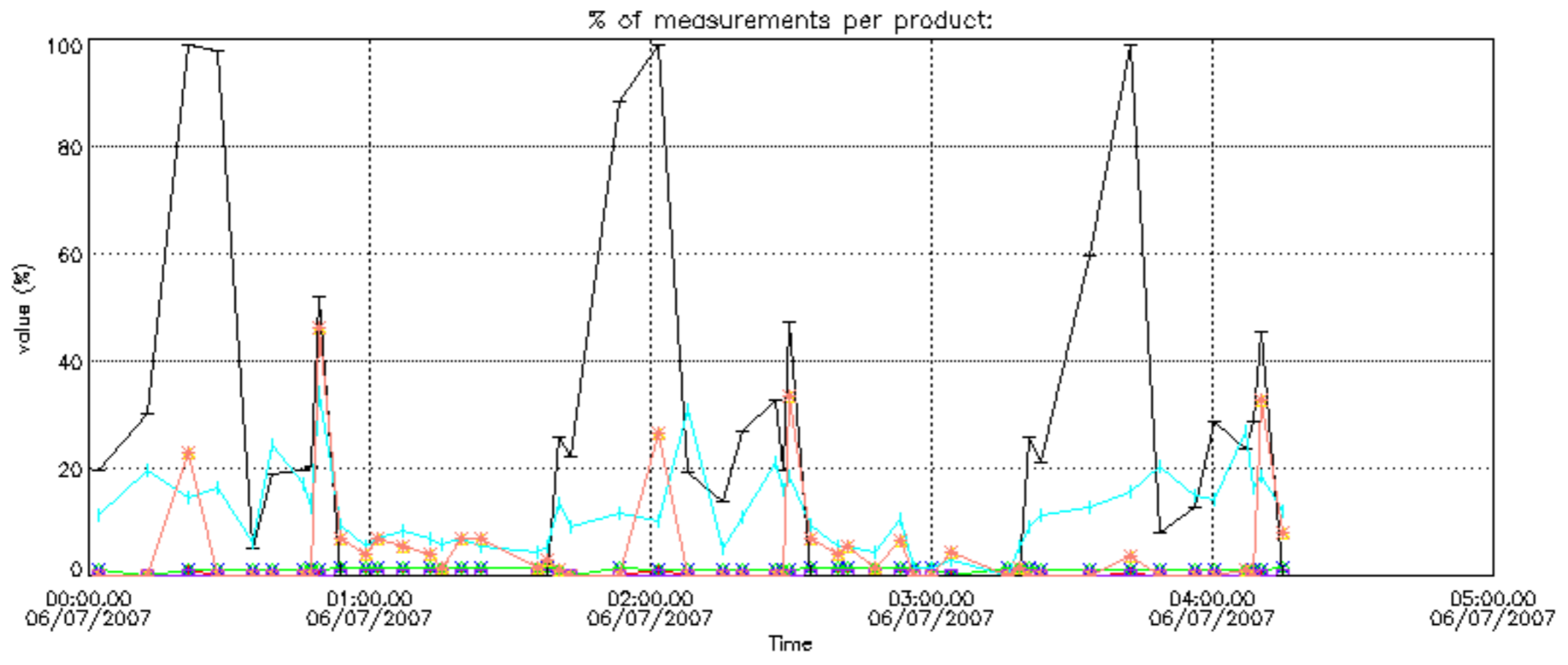
8. Auxiliary Data Files used for the production reported in section 2.4

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

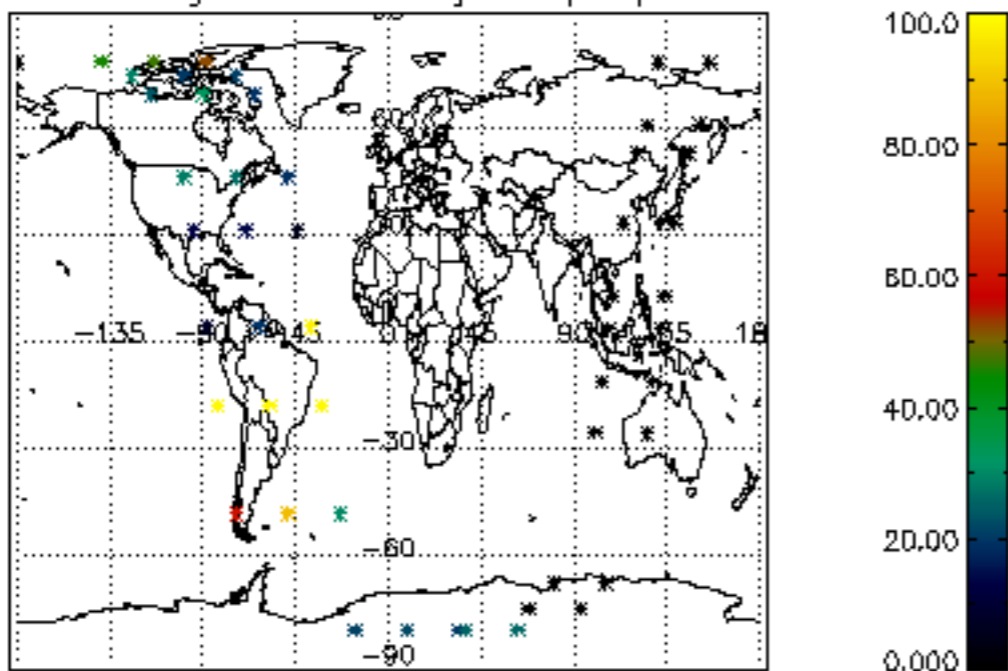
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	06-JUL-2007 00:02:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-JUL-2007 00:02:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-JUL-2007 00:02:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-JUL-2007 00:02:08
ECMWF_FILE	AUX_ECF_AXNECM20070705_062110_20070705_210000_20070706_090000	1	06-JUL-2007 00:02:08
ECMWF_FILE	AUX_ECF_AXNECM20070705_181110_20070706_030000_20070706_150000	38	06-JUL-2007 03:16:16
OPTIONAL_ECMWF_FILE	MISSING	1	06-JUL-2007 00:02:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070705_204258_000063762059_00343_27952_3718.N1	1	06-JUL-2007 00:02:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070705_222914_000057382059_00344_27953_3719.N1	3	06-JUL-2007 00:21:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070706_001011_000057382059_00345_27954_3720.N1	22	06-JUL-2007 01:53:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070706_015108_000041442059_00346_27955_3721.N1	38	06-JUL-2007 03:16:16



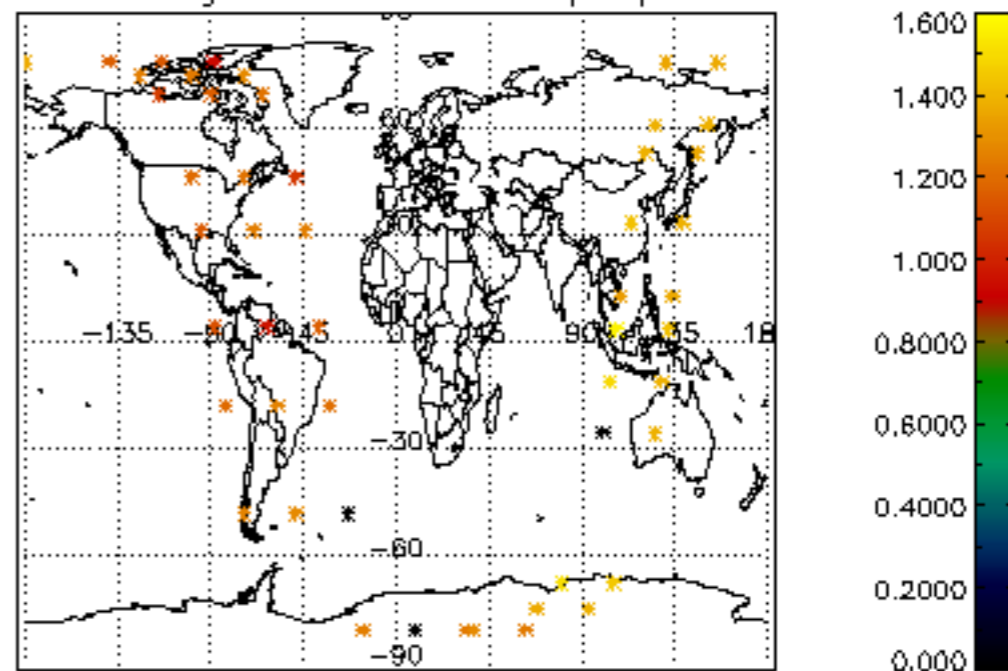




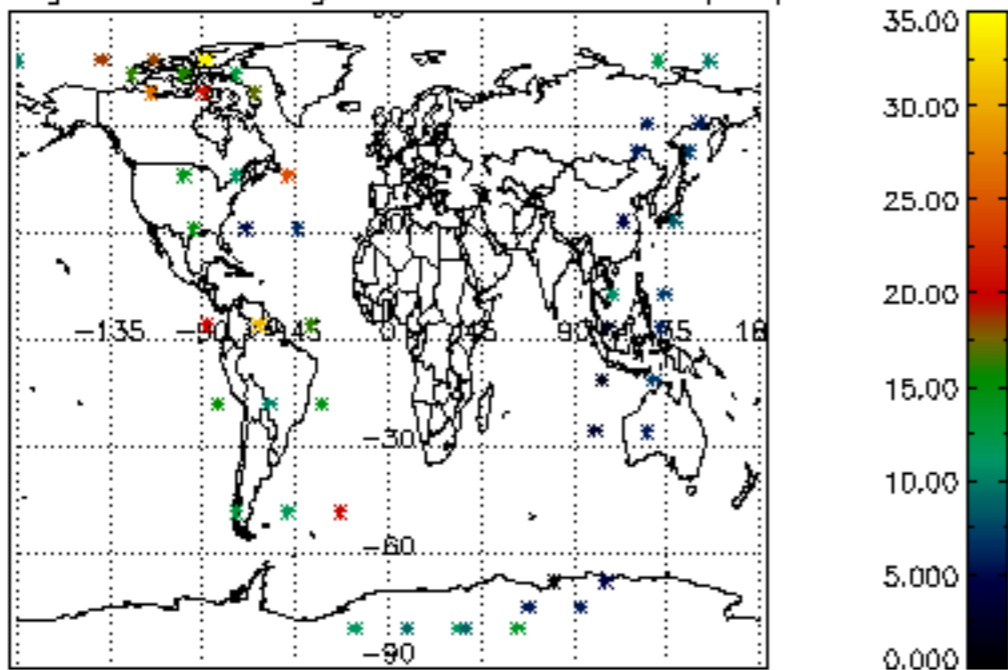
Percentage of cosmic ray hits per profile



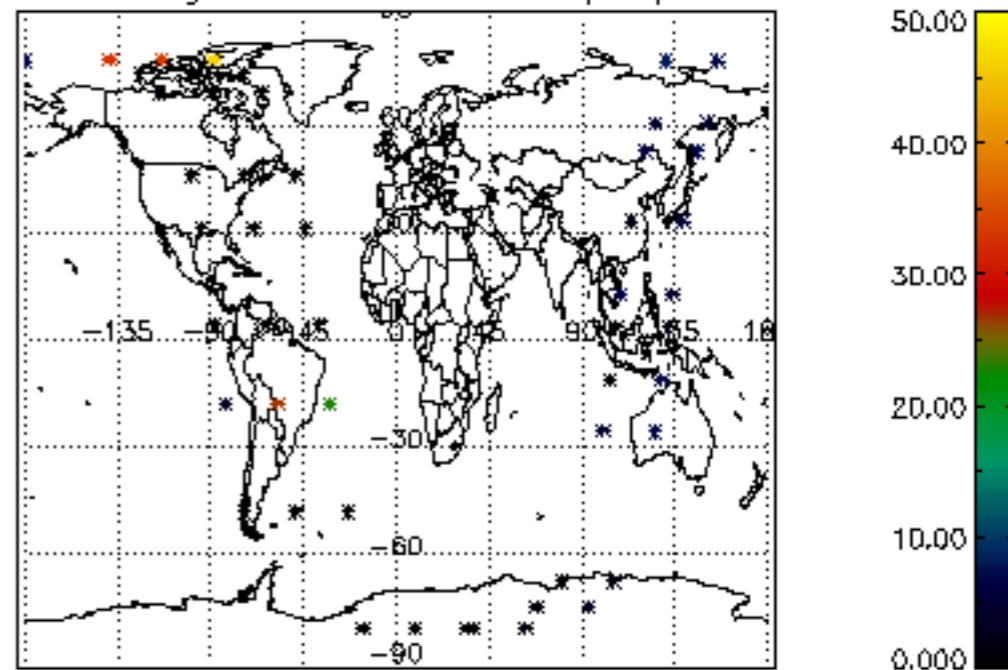
Percentage of datation errors per profile



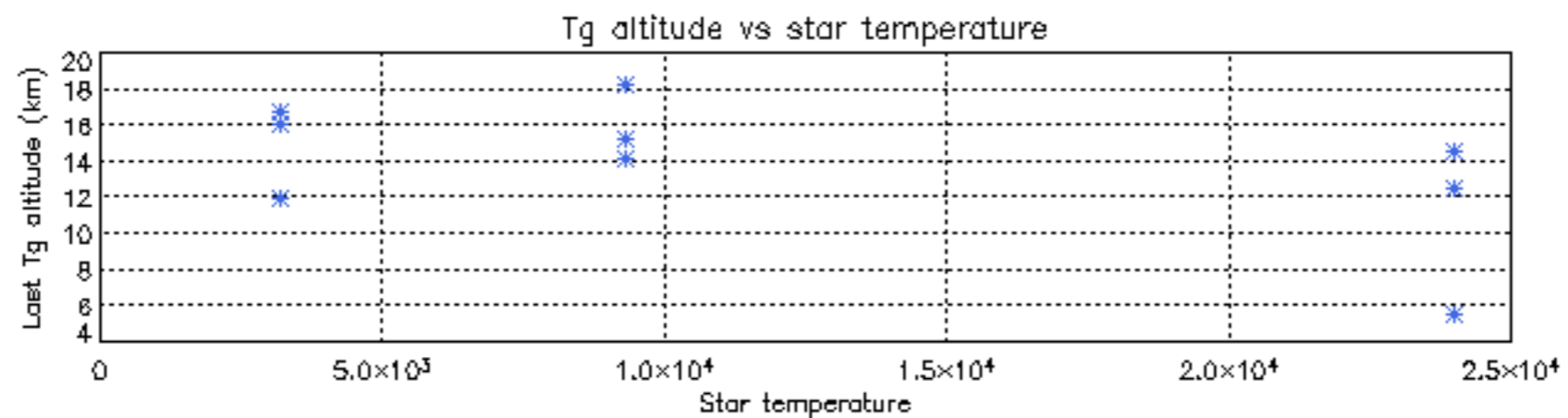
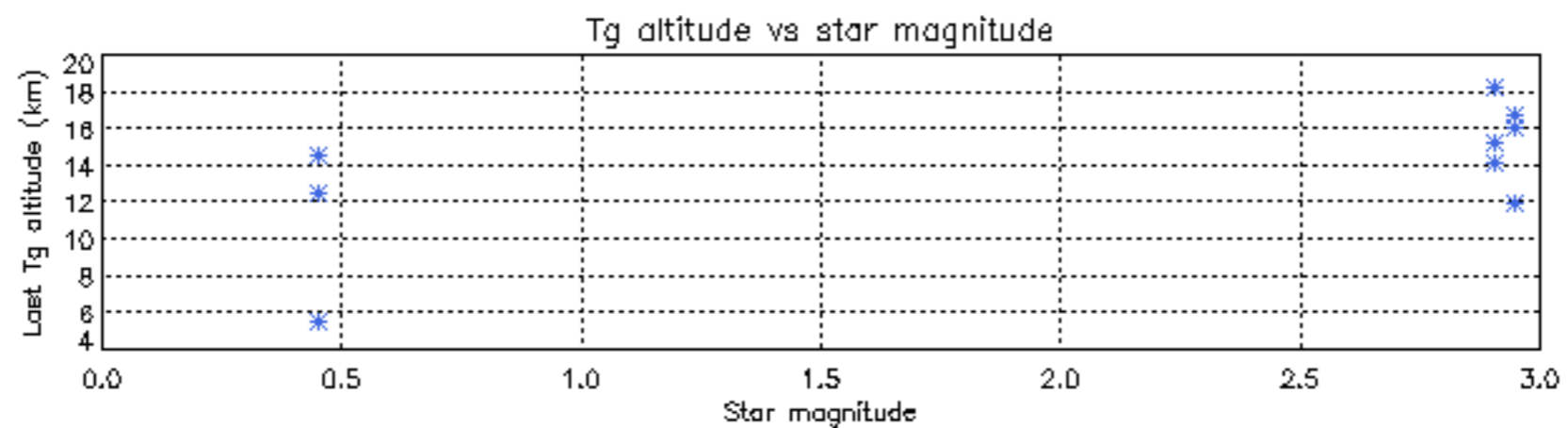
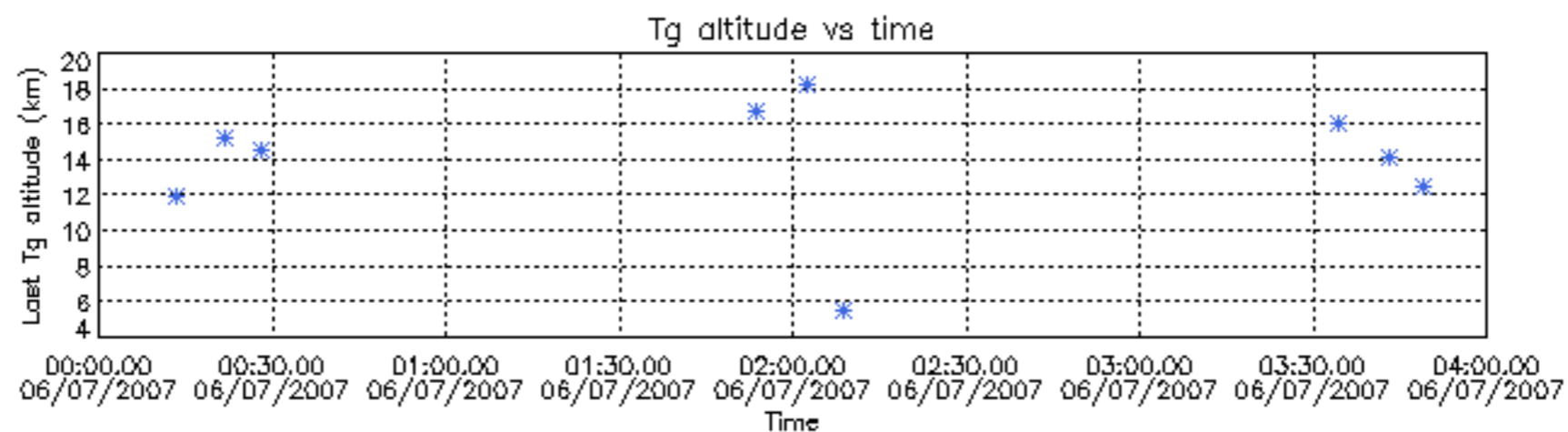
Percentage of star falling outside central band per profile



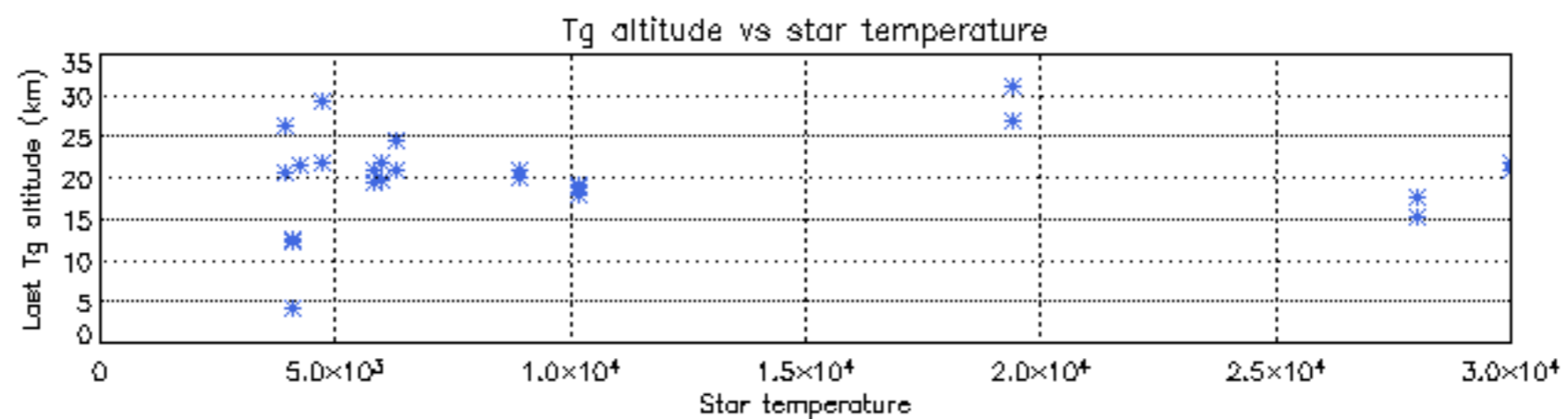
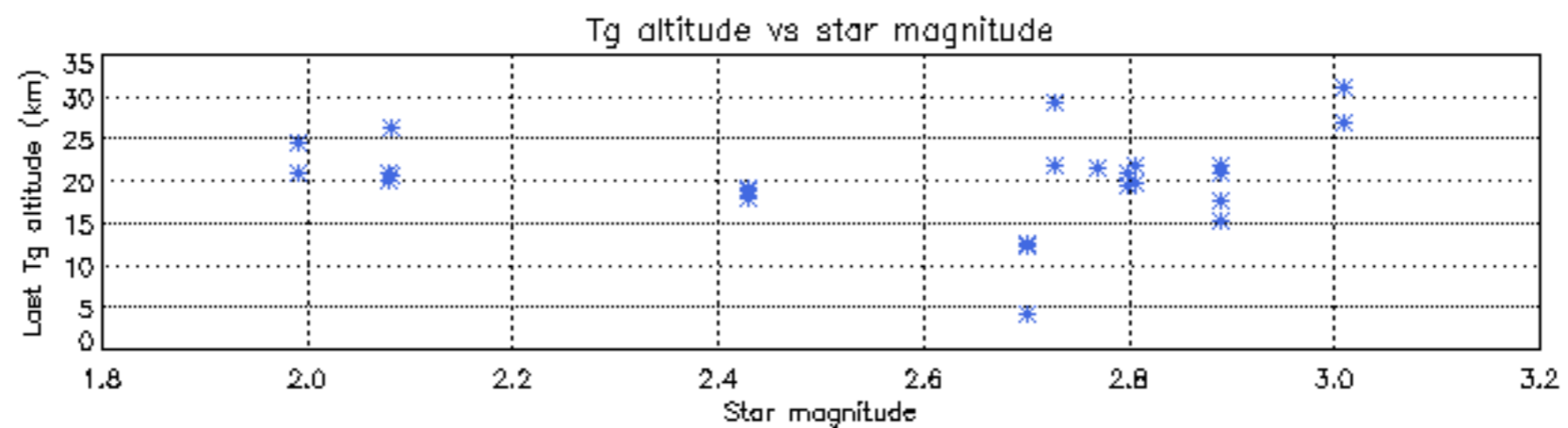
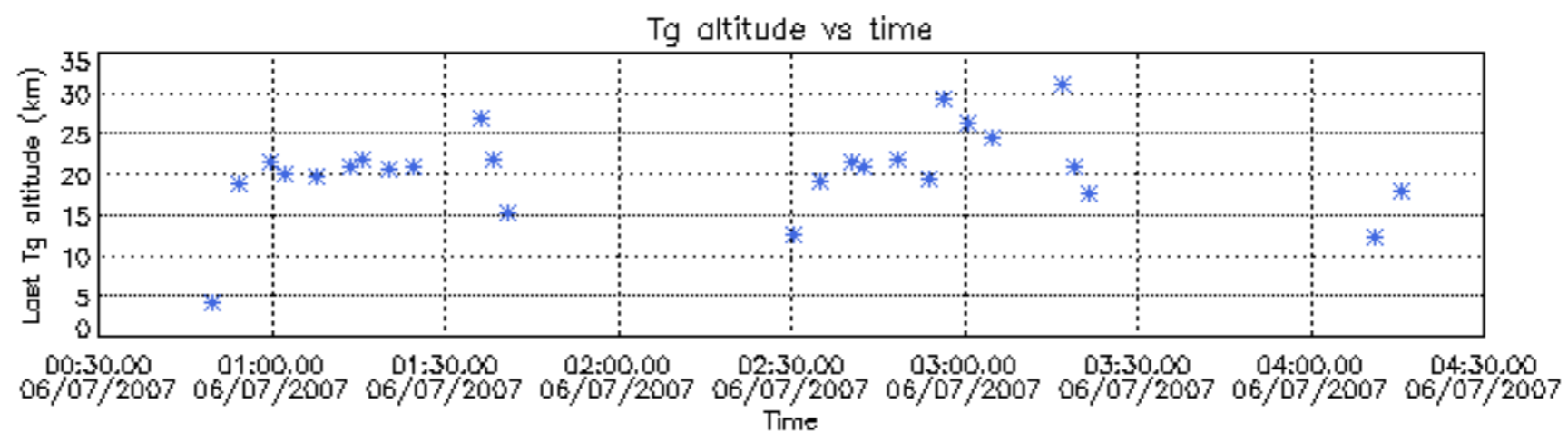
Percentage of saturation errors per profile



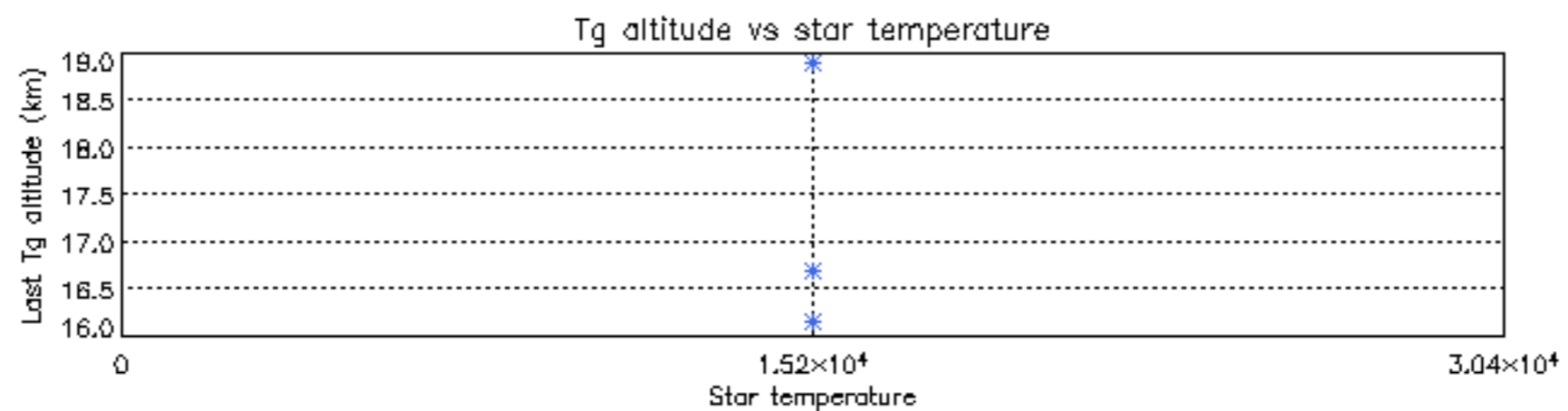
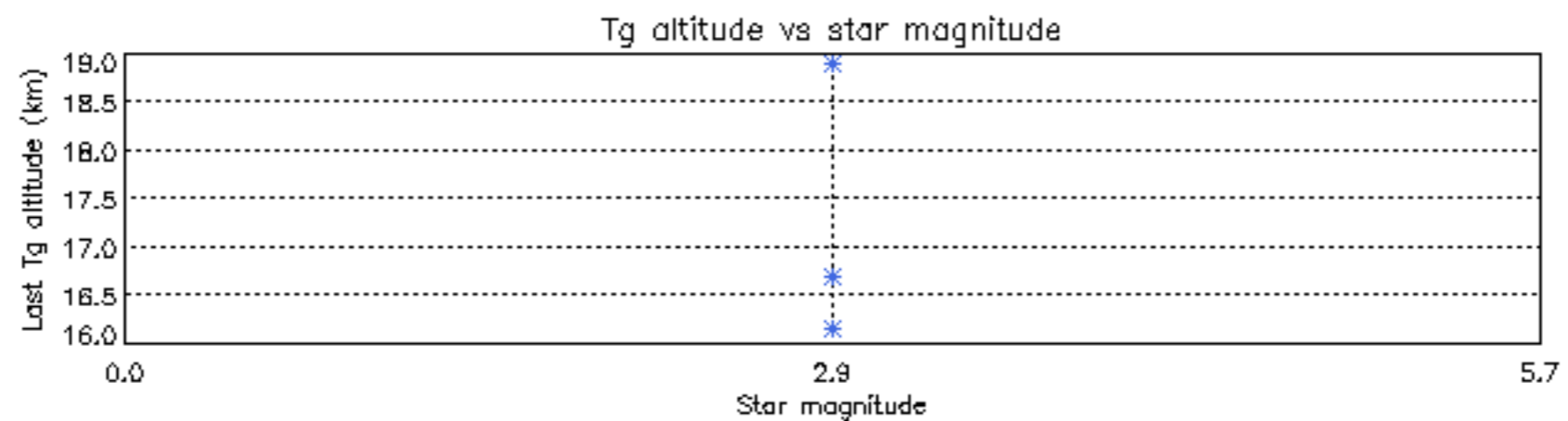
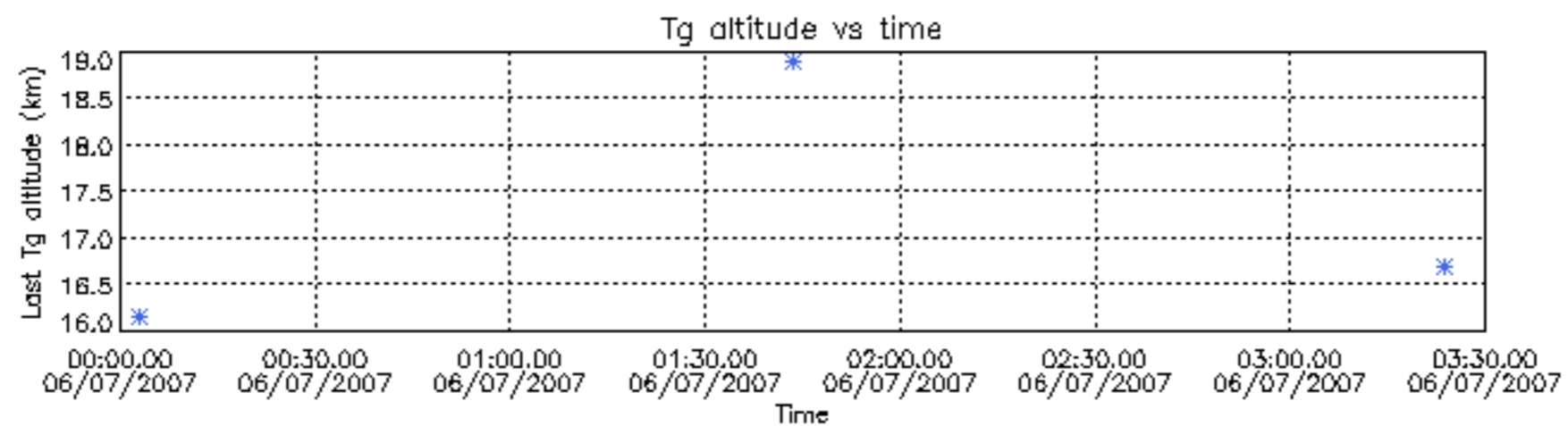
Tangent altitude at which the star is lost

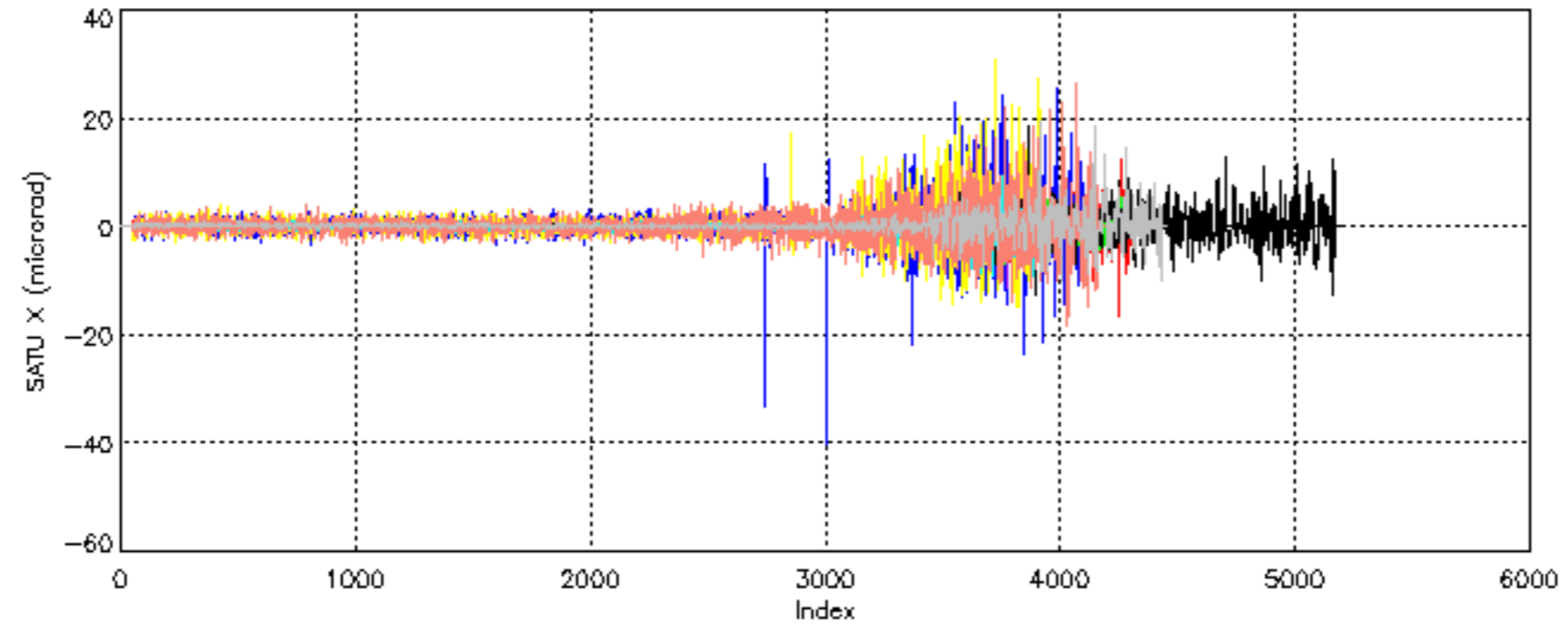


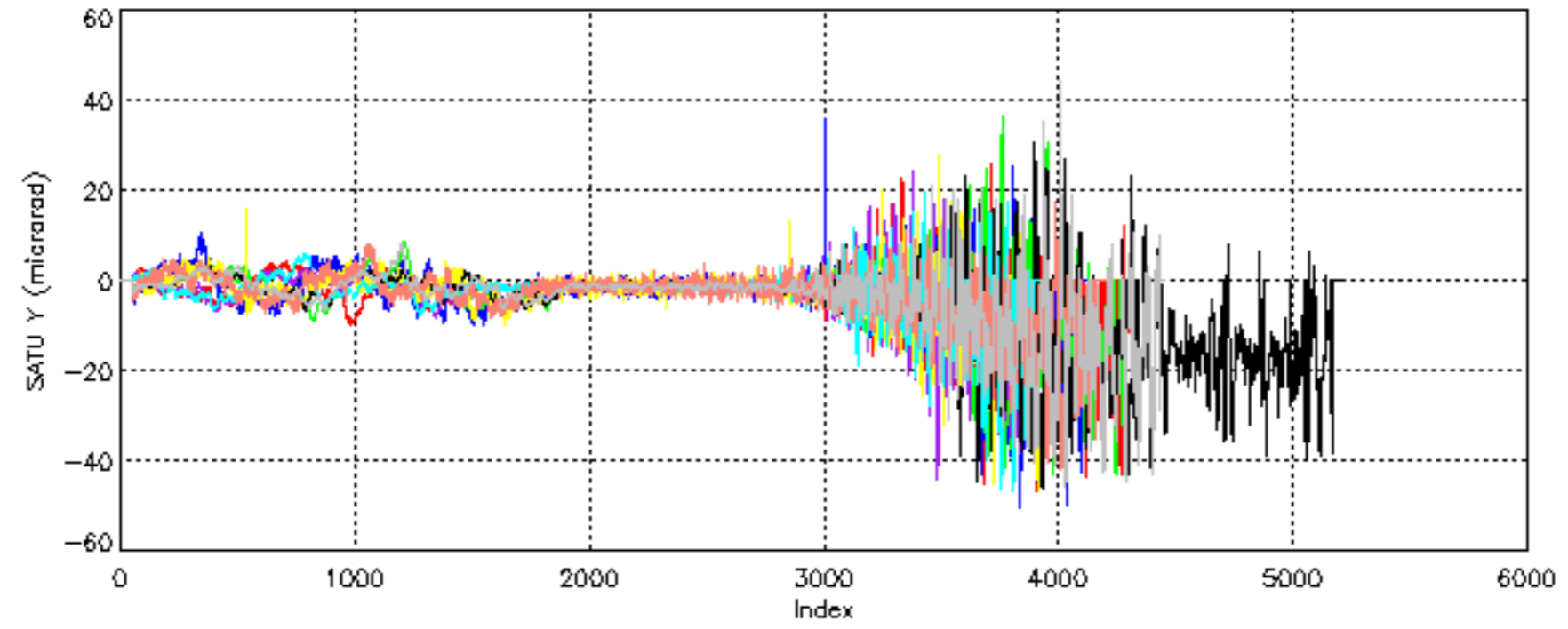
Tangent altitude at which the star is lost

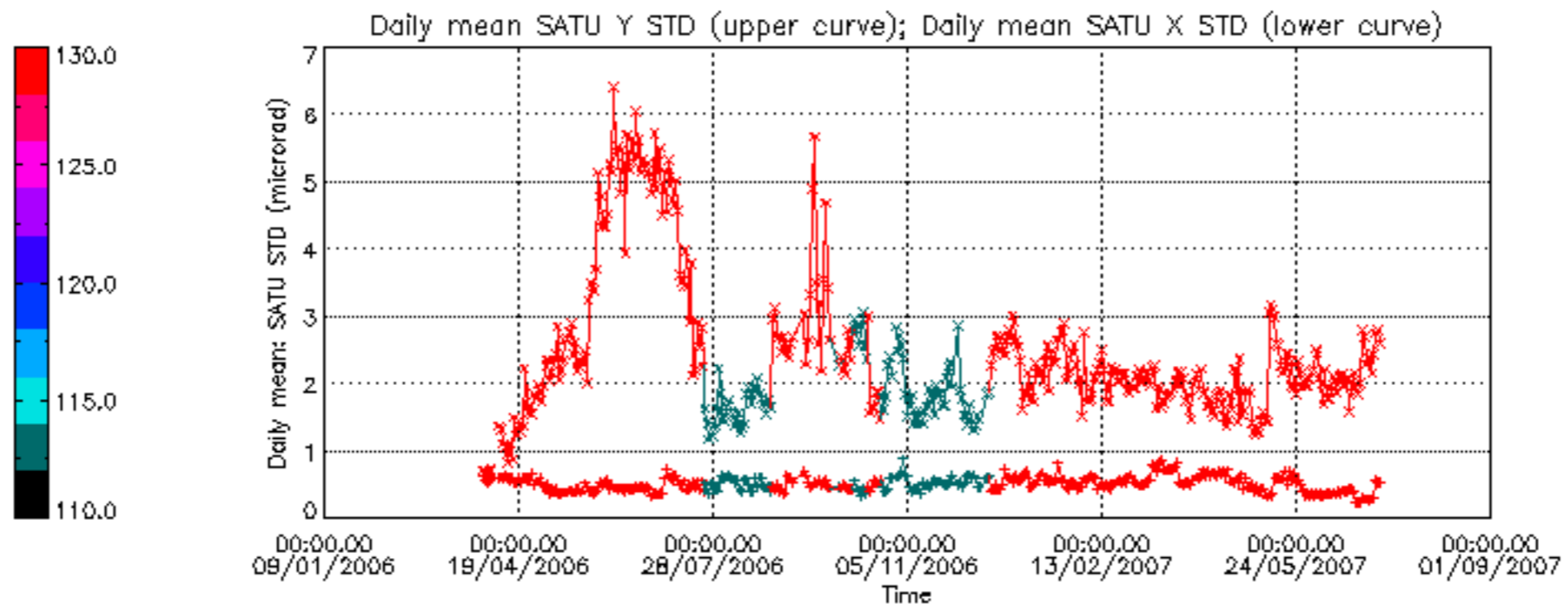


Tangent altitude at which the star is lost









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 17; 3190.9; 01-JUL-2007 02:16:52; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27884
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 19; 3191.1; 01-JUL-2007 03:57:28; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;27885
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