

GOMOS Daily Report 11-DEC-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	13DEC2007 06:02:42
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (11DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

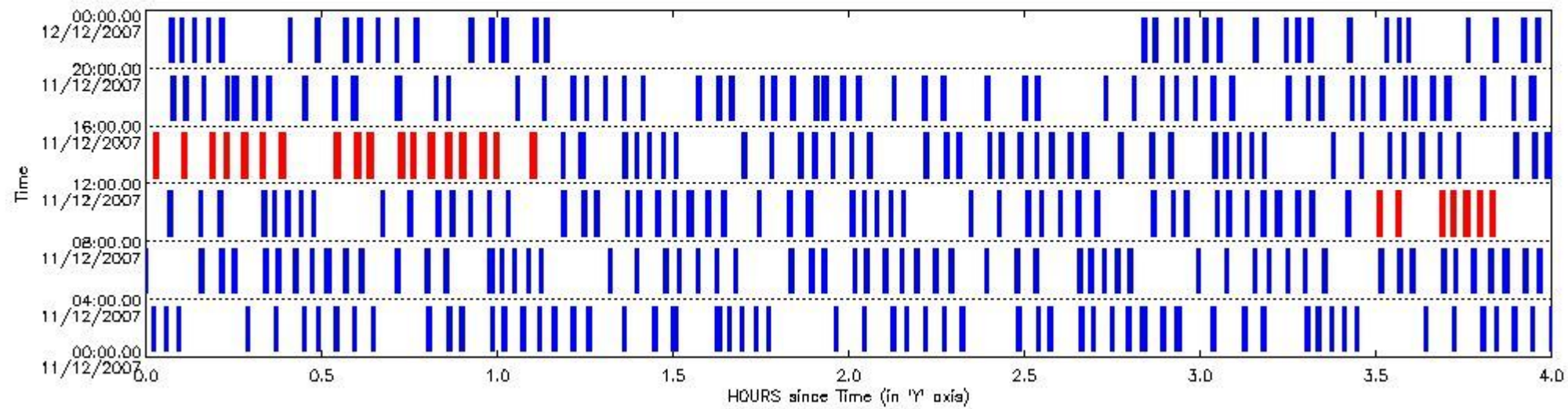
2.1 Level 0 products arrived in PCF (see template [here](#))

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
11-DEC-2007 11:30:05	11AlpLep	101	30223
11-DEC-2007 11:33:18	19BetOri	7	30223
11-DEC-2007 11:40:47	87AlpTau	13	30223
11-DEC-2007 11:42:48	25EtaTau	146	30223
11-DEC-2007 11:45:01	44ZetPer	150	30223
11-DEC-2007 11:47:21	45EpsPer	149	30223
11-DEC-2007 11:49:30	39DelPer	175	30223
11-DEC-2007 12:01:11	1AlpUMi	49	30223
11-DEC-2007 12:05:55	7BetUMi	60	30223
11-DEC-2007 12:10:46	77EpsUMa	32	30223
11-DEC-2007 12:13:10	85EtaUMa	39	30223
11-DEC-2007 12:16:20	27GamBoo	180	30223
11-DEC-2007 12:19:28		83	30223
11-DEC-2007 12:22:39	8EtaBoo	111	30223
11-DEC-2007 12:32:09	67AlpVir	15	30223

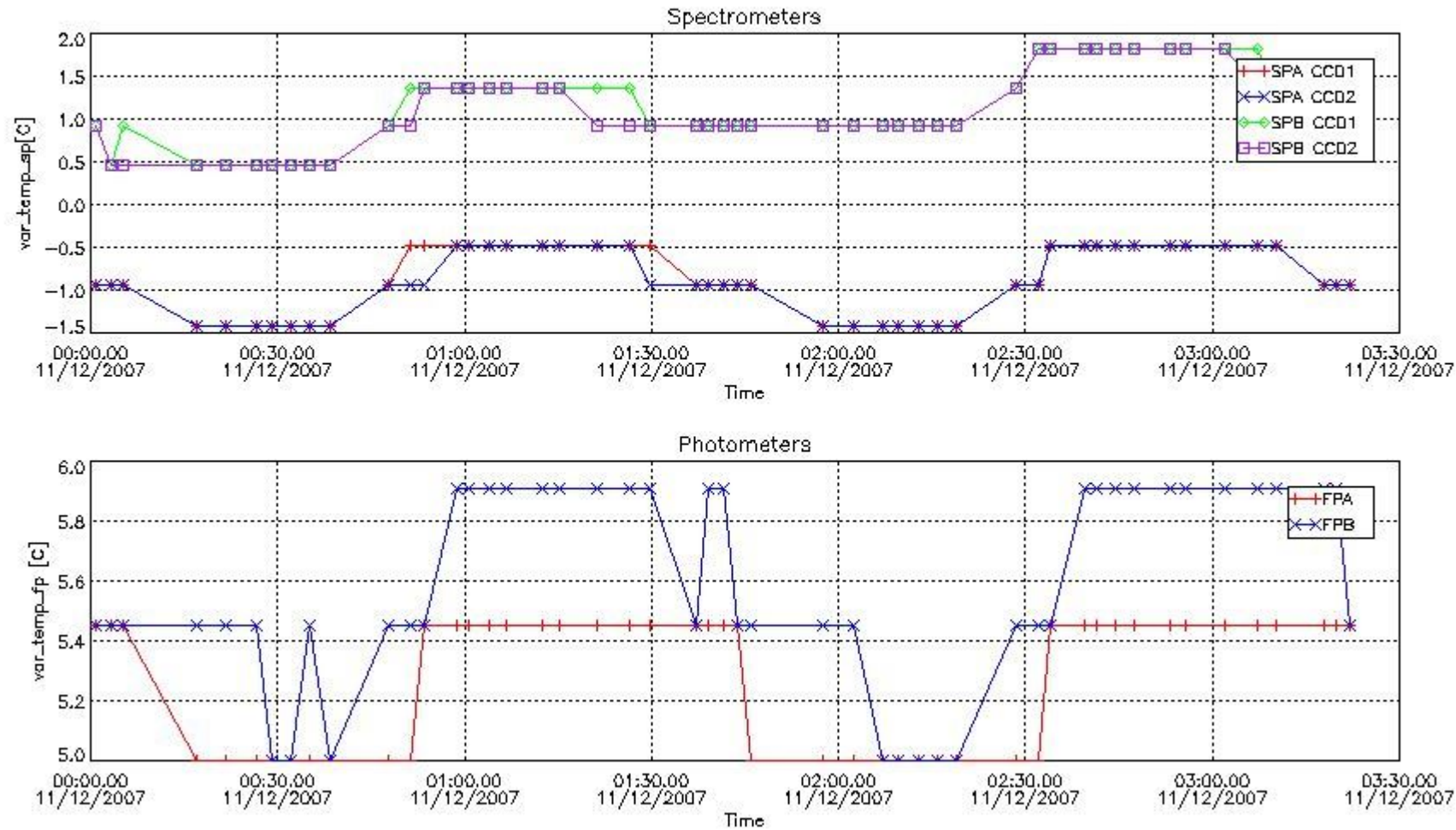
11-DEC-2007 12:35:37	46GamHya	169	30223
11-DEC-2007 12:37:44	9BetCrv	106	30223
11-DEC-2007 12:43:04	GamCen	64	30223
11-DEC-2007 12:45:02	GamCru	26	30224
11-DEC-2007 12:48:12	MuVel	113	30224
11-DEC-2007 12:51:05	UpsCar	159	30224
11-DEC-2007 12:53:30	DSA1030	0	30224
11-DEC-2007 12:56:50	Gam2Vel	34	30224
11-DEC-2007 12:59:21	AlpCar	2	30224
11-DEC-2007 13:05:30	AlpCol	108	30224

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_1PNPDE20071211_000050_000000362064_00102_30216_2427.N1	11-DEC-2007 00:00:50	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30216	No
2	GOM_TRA_1PNPDE20071211_000310_000000342064_00102_30216_2428.N1	11-DEC-2007 00:03:10	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30216	No
3	GOM_TRA_1PNPDE20071211_000519_000000342064_00102_30216_2429.N1	11-DEC-2007 00:05:19	Bright	34.000	175	39Del Per	3.0100	19400.	68	30216	No
4	GOM_TRA_1PNPDE20071211_001700_000000362064_00102_30216_2430.N1	11-DEC-2007 00:17:00	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30216	No
5	GOM_TRA_1PNPDE20071211_002143_000000372064_00102_30216_2431.N1	11-DEC-2007 00:21:43	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30216	No
6	GOM_TRA_1PNPDE20071211_002635_000000412064_00102_30216_2432.N1	11-DEC-2007 00:26:35	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	30216	No
7	GOM_TRA_1PNPDE20071211_002858_000000362064_00102_30216_2433.N1	11-DEC-2007 00:28:58	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	30216	No
8	GOM_TRA_1PNPDE20071211_003208_000000412064_00102_30216_2434.N1	11-DEC-2007 00:32:08	Bright	41.000	180	27Gam Boo	3.0400	8000.0	82	30216	No
9	GOM_TRA_1PNPDE20071211_003515_000000352064_00102_30216_2435.N1	11-DEC-2007 00:35:15	Bright	35.000	83		2.3780	11000.	70	30216	No
10	GOM_TRA_1PNPDE20071211_003825_000000392064_00102_30216_2436.N1	11-DEC-2007 00:38:25	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	30216	No
11	GOM_TRA_1PNPDE20071211_004753_000000502064_00102_30216_2228.N1	11-DEC-2007 00:47:53	Bright	49.500	15	67Alp Vir	0.97600	28000.	99	30216	No
12	GOM_TRA_1PNPDE20071211_005121_000000432064_00102_30216_2229.N1	11-DEC-2007 00:51:21	Twilight	42.500	169	46Gam Hya	2.9910	4700.0	85	30216	No
13	GOM_TRA_1PNPDE20071211_005326_000000502064_00102_30216_2230.N1	11-DEC-2007 00:53:26	Dark	49.500	106	9Bet Crv	2.6480	5600.0	99	30216	No
14	GOM_TRA_1PNPDE20071211_005848_000000392064_00102_30216_2231.N1	11-DEC-2007 00:58:48	Dark	39.000	64	Gam Cen	2.2000	10600.	78	30216	No
15	GOM_TRA_1PNPDE20071211_010047_000000482064_00103_30217_2232.N1	11-DEC-2007 01:00:47	Dark	48.000	26	Gam Cru	1.6240	2900.0	96	30217	No
16	GOM_TRA_1PNPDE20071211_010354_000000542064_00103_30217_2233.N1	11-DEC-2007 01:03:54	Dark	54.000	113	Mu Vel	2.6920	5000.0	108	30217	No
17	GOM_TRA_1PNPDE20071211_010649_000000412064_00103_30217_2234.N1	11-DEC-2007 01:06:49	Dark	40.500	159	Ups Car	2.9200	7200.0	81	30217	No
18	GOM_TRA_1PNPDE20071211_011232_000000502064_00103_30217_2235.N1	11-DEC-2007 01:12:32	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	30217	No
19	GOM_TRA_1PNPDE20071211_011506_000000562064_00103_30217_2236.N1	11-DEC-2007 01:15:06	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	30217	No
20	GOM_TRA_1PNPDE20071211_012116_000000432064_00103_30217_2237.N1	11-DEC-2007 01:21:16	Straylight	42.500	108	Alp Col	2.6520	15200.	85	30217	No
21	GOM_TRA_1PNPDE20071211_012628_000000462064_00103_30217_2238.N1	11-DEC-2007 01:26:28	Straylight	46.000	101	11Alp Lep	2.5820	7000.0	92	30217	No
22	GOM_TRA_1PNPDE20071211_012942_000000542064_00103_30217_2239.N1	11-DEC-2007 01:29:42	Straylight	54.000	7	19Bet Ori	0.10000	14000.	108	30217	No
23	GOM_TRA_1PNPDE20071211_013712_000000562064_00103_30217_2240.N1	11-DEC-2007 01:37:12	Twilight	56.000	13	87Alp Tau	0.86700	3800.0	112	30217	No
24	GOM_TRA_1PNPDE20071211_013912_000000382064_00103_30217_2241.N1	11-DEC-2007 01:39:12	Bright	37.500	146	25Eta Tau	2.8730	15200.	75	30217	No
25	GOM_TRA_1PNPDE20071211_014126_000000372064_00103_30217_2242.N1	11-DEC-2007 01:41:26	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30217	No
26	GOM_TRA_1PNPDE20071211_014346_000000372064_00103_30217_2243.N1	11-DEC-2007 01:43:46	Bright	36.500	149	45Eps Per	2.8880	30000.	73	30217	No
27	GOM_TRA_1PNPDE20071211_014555_000000422064_00103_30217_2244.N1	11-DEC-2007 01:45:55	Bright	41.500	175	39Del Per	3.0100	19400.	83	30217	No
28	GOM_TRA_1PNPDE20071211_015735_000000352064_00103_30217_2245.N1	11-DEC-2007 01:57:35	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30217	No
29	GOM_TRA_1PNPDE20071211_020219_000000382064_00103_30217_2246.N1	11-DEC-2007 02:02:19	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30217	No
30	GOM_TRA_1PNPDE20071211_020711_000000412064_00103_30217_2247.N1	11-DEC-2007 02:07:11	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	30217	No
31	GOM_TRA_1PNPDE20071211_020934_000000392064_00103_30217_2248.N1	11-DEC-2007 02:09:34	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	30217	No
32	GOM_TRA_1PNPDE20071211_021244_000000382064_00103_30217_2249.N1	11-DEC-2007 02:12:44	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	30217	No
33	GOM_TRA_1PNPDE20071211_021551_000000362064_00103_30217_2250.N1	11-DEC-2007 02:15:51	Bright	35.500	83		2.3780	11000.	71	30217	No
34	GOM_TRA_1PNPDE20071211_021901_000000372064_00103_30217_2251.N1	11-DEC-2007 02:19:01	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	30217	No
35	GOM_TRA_1PNPDE20071211_022829_000000472064_00103_30217_2421.N1	11-DEC-2007 02:28:29	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	30217	No
36	GOM_TRA_1PNPDE20071211_023157_000000422064_00103_30217_2422.N1	11-DEC-2007 02:31:57	Twilight	42.000	169	46Gam Hya	2.9910	4700.0	84	30217	No
37	GOM_TRA_1PNPDE20071211_023403_000000472064_00103_30217_2423.N1	11-DEC-2007 02:34:03	Dark	46.500	106	9Bet Crv	2.6480	5600.0	93	30217	No
38	GOM_TRA_1PNPDE20071211_023925_000000402064_00103_30217_2424.N1	11-DEC-2007 02:39:25	Dark	39.500	64	Gam Cen	2.2000	10600.	79	30217	No
39	GOM_TRA_1PNPDE20071211_024123_000000412064_00104_30218_2425.N1	11-DEC-2007 02:41:23	Dark	40.500	26	Gam Cru	1.6240	2900.0	81	30218	No
40	GOM_TRA_1PNPDE20071211_024431_000000482064_00104_30218_2426.N1	11-DEC-2007 02:44:31	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	30218	No
41	GOM_TRA_1PNPDE20071211_024726_000000382064_00104_30218_2427.N1	11-DEC-2007 02:47:26	Dark	37.500	159	Ups Car	2.9200	7200.0	75	30218	No
42	GOM_TRA_1PNPDE20071211_025309_000000462064_00104_30218_2428.N1	11-DEC-2007 02:53:09	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	30218	No
43	GOM_TRA_1PNPDE20071211_025542_000000552064_00104_30218_2429.N1	11-DEC-2007 02:55:42	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	30218	No
44	GOM_TRA_1PNPDE20071211_030152_000000422064_00104_30218_2430.N1	11-DEC-2007 03:01:52	Straylight	42.000	108	Alp Col	2.6520	15200.	84	30218	No

45	GOM_TRA_1PNPDE20071211_030704_000000472064_00104_30218_2431.N1	11-DEC-2007 03:07:04	Straylight	47.000	101	11Alp Lep	2.5820	7000.0	94	30218	No
46	GOM_TRA_1PNPDE20071211_031018_000000542064_00104_30218_2432.N1	11-DEC-2007 03:10:18	Straylight	54.000	7	19Bet Ori	0.10000	14000.	108	30218	No
47	GOM_TRA_1PNPDE20071211_031748_000000492064_00104_30218_2433.N1	11-DEC-2007 03:17:48	Twilight_stray	48.500	13	87Alp Tau	0.86700	3800.0	97	30218	No
48	GOM_TRA_1PNPDE20071211_031948_000000372064_00104_30218_2434.N1	11-DEC-2007 03:19:48	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30218	No
49	GOM_TRA_1PNPDE20071211_032202_000000372064_00104_30218_2435.N1	11-DEC-2007 03:22:02	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30218	No

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



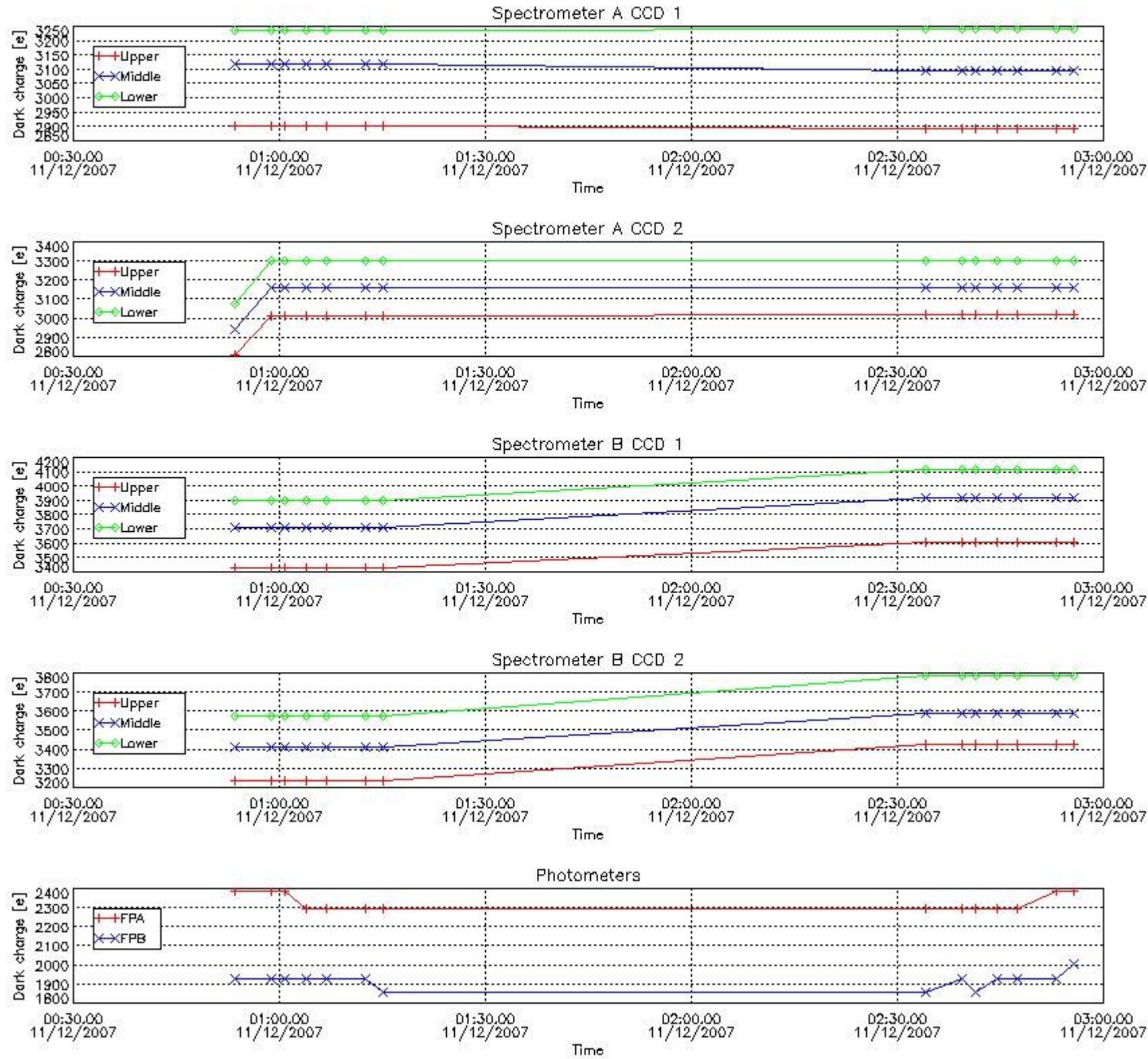
4. Overview of dark signal processing per product

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



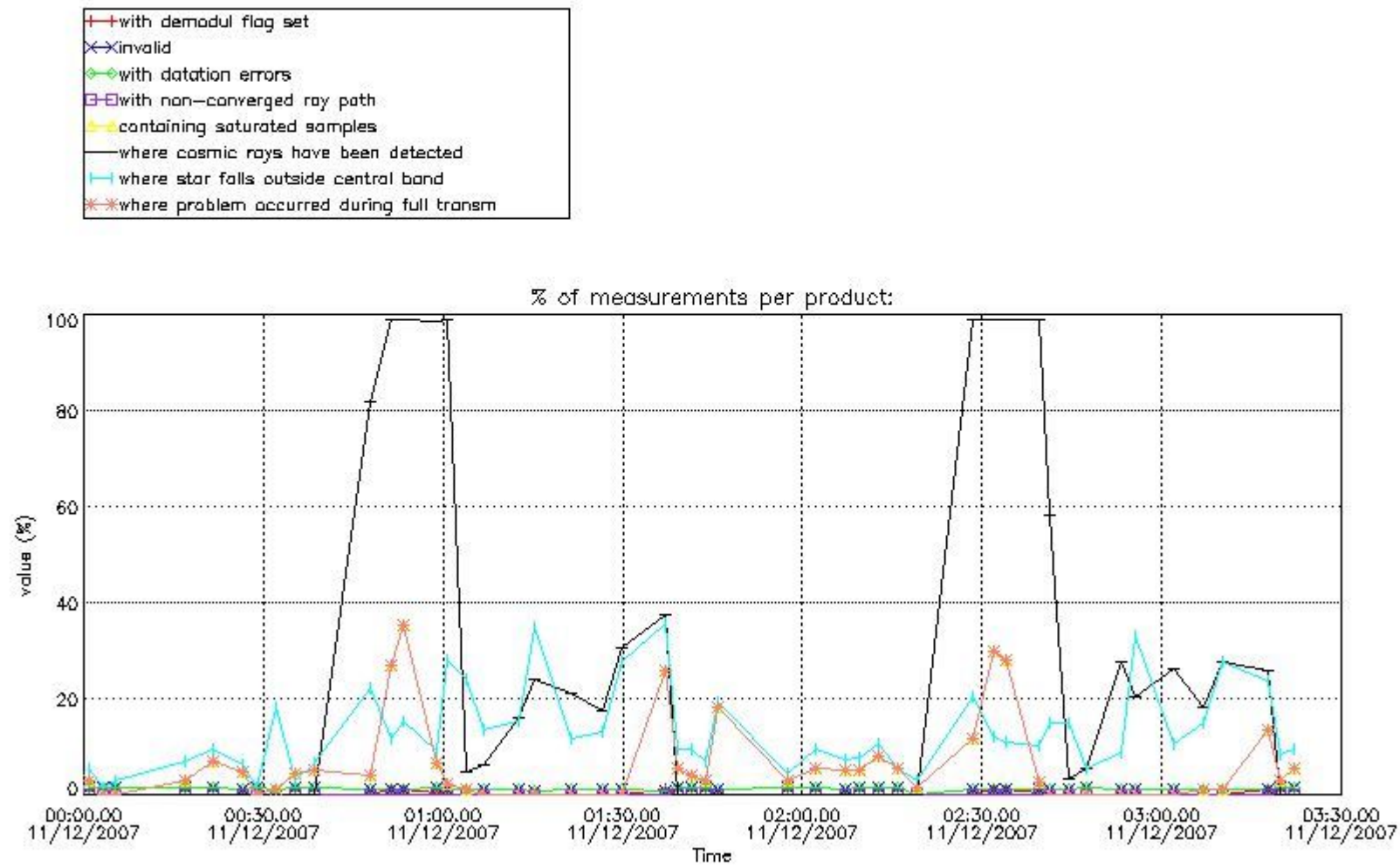
5. Demodulation flag and quality information monitoring

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.

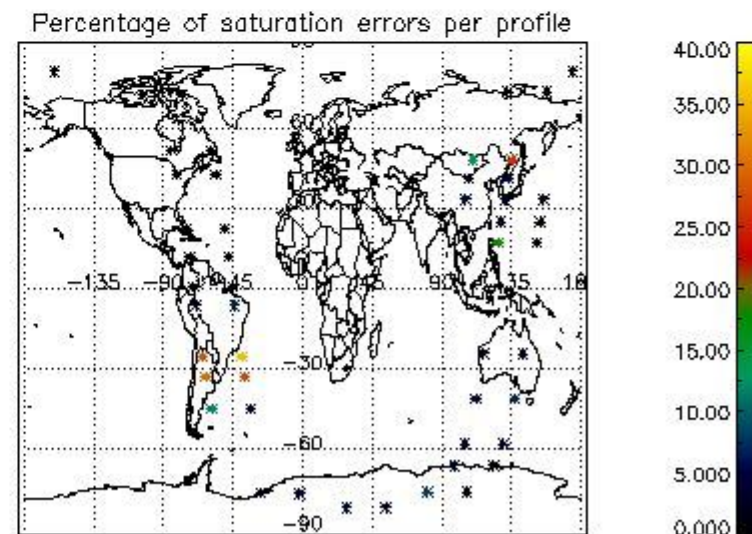
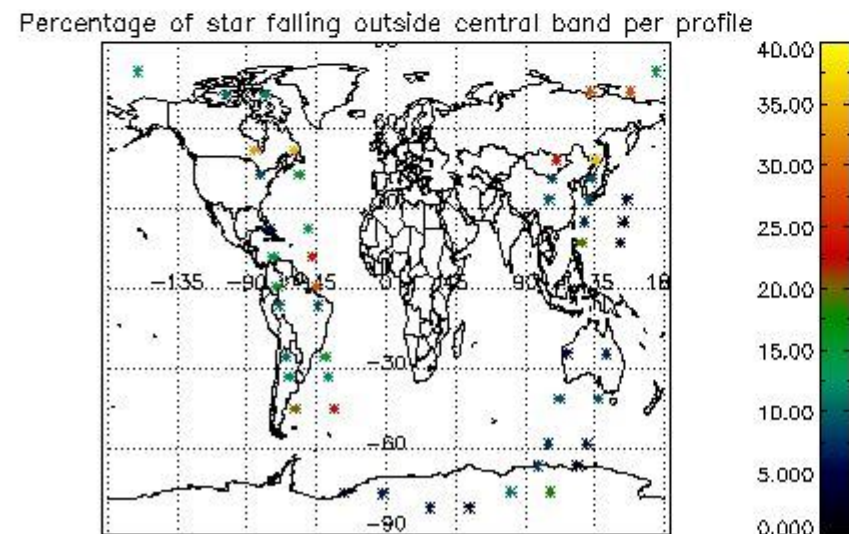
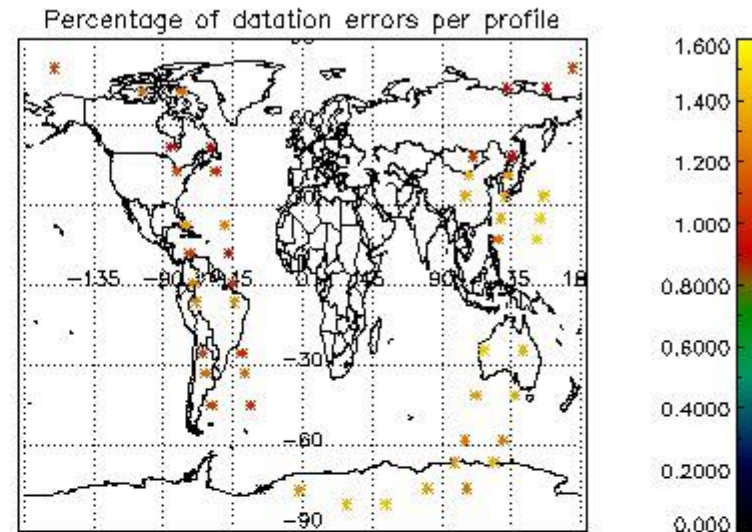
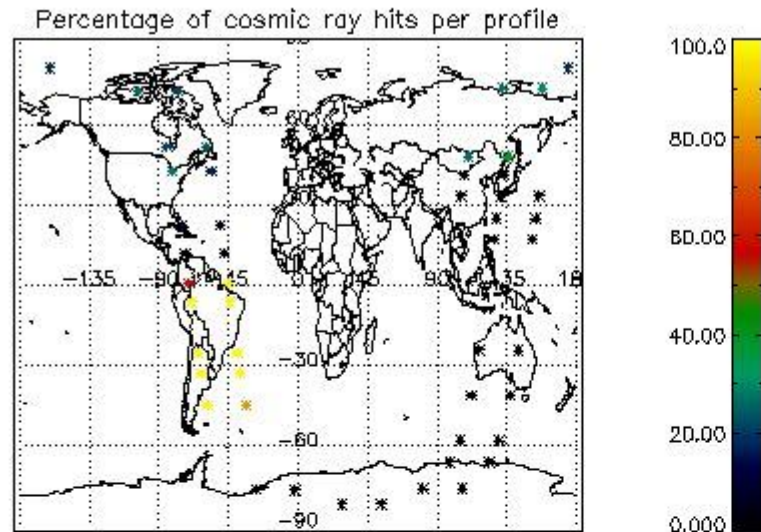
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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)



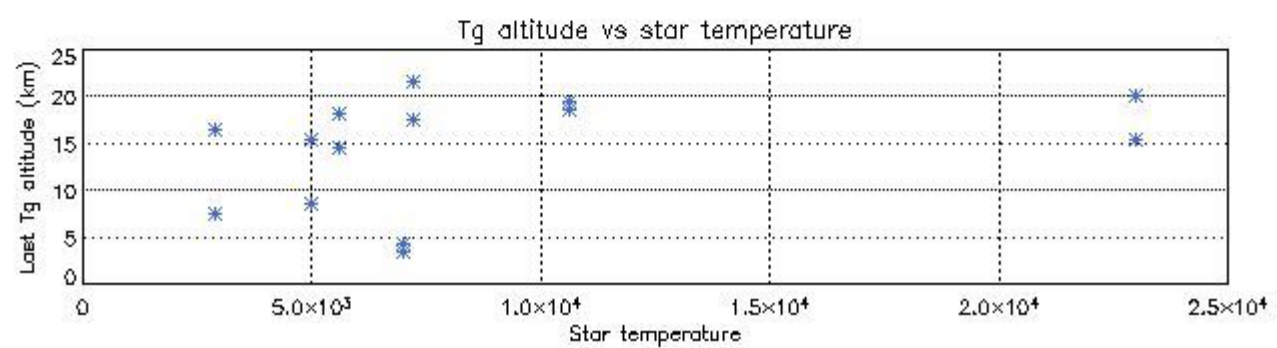
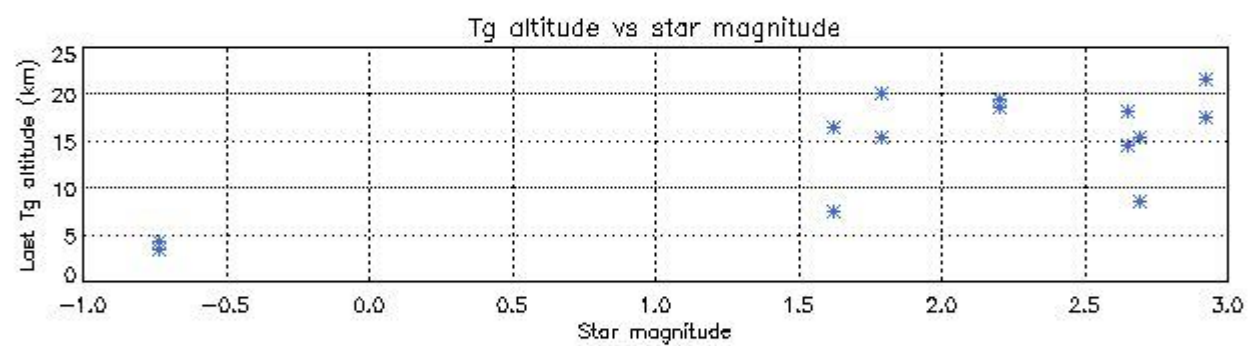
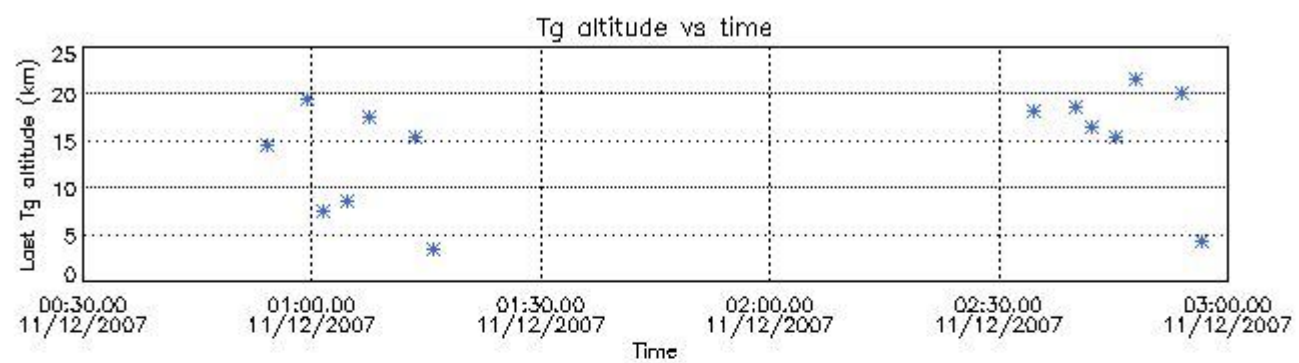
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.342	19.805	16.436
St. deviation:	5.9724	4.0038	0.36978
Maximum:	21.591	25.557	16.698
Minimum:	3.4554	10.706	16.175
Number of data:	14.000	25.000	2.0000

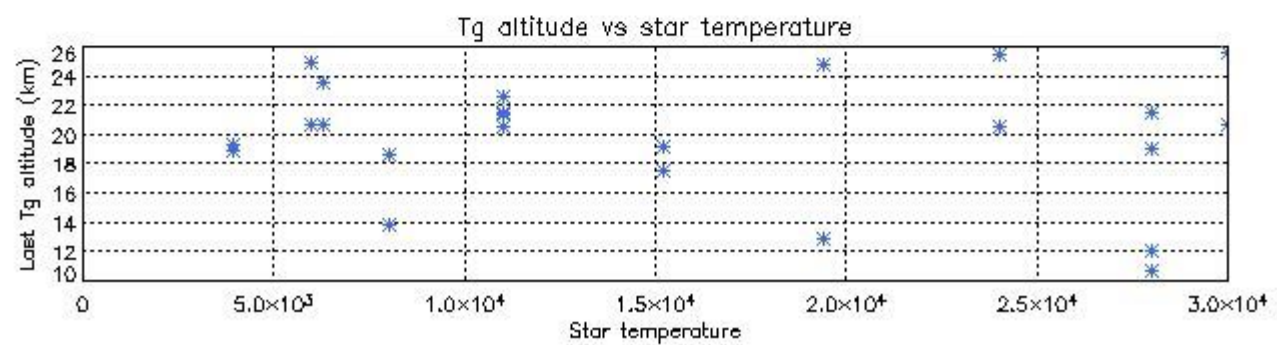
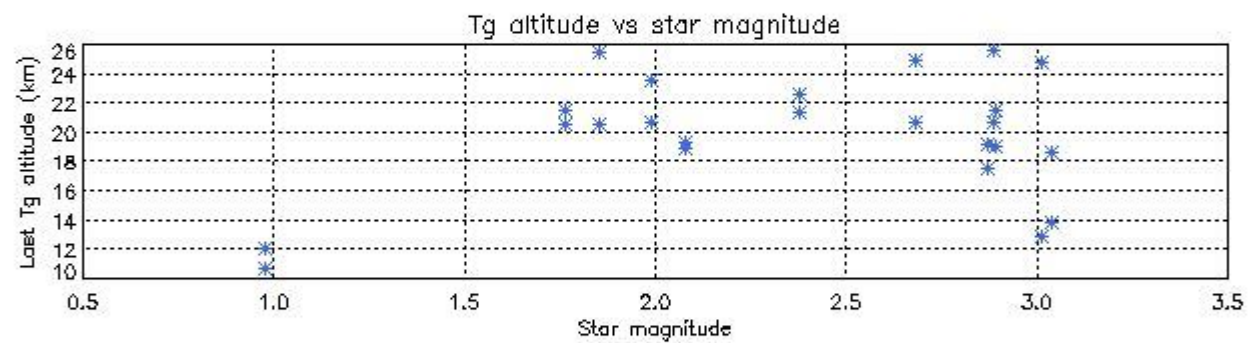
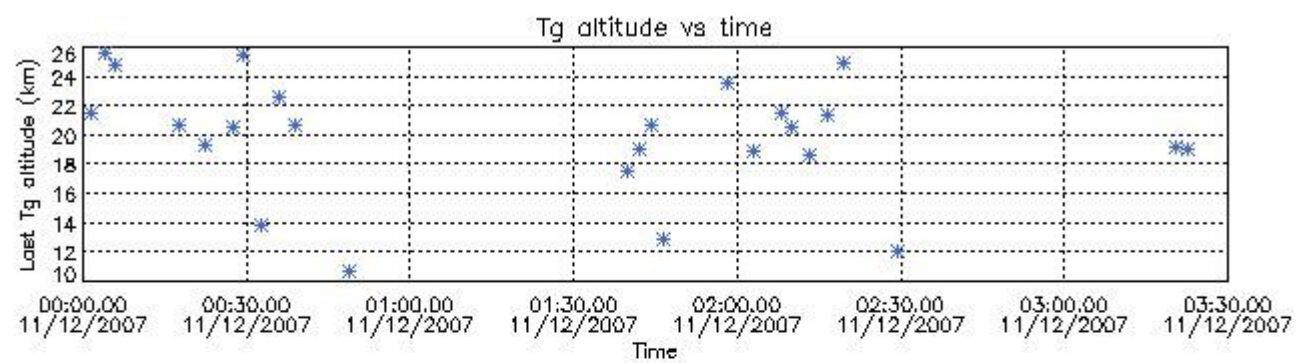
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



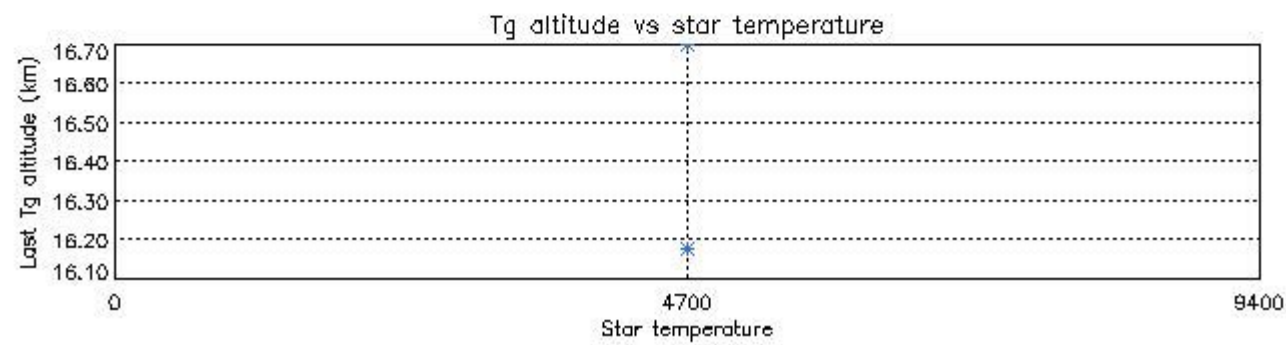
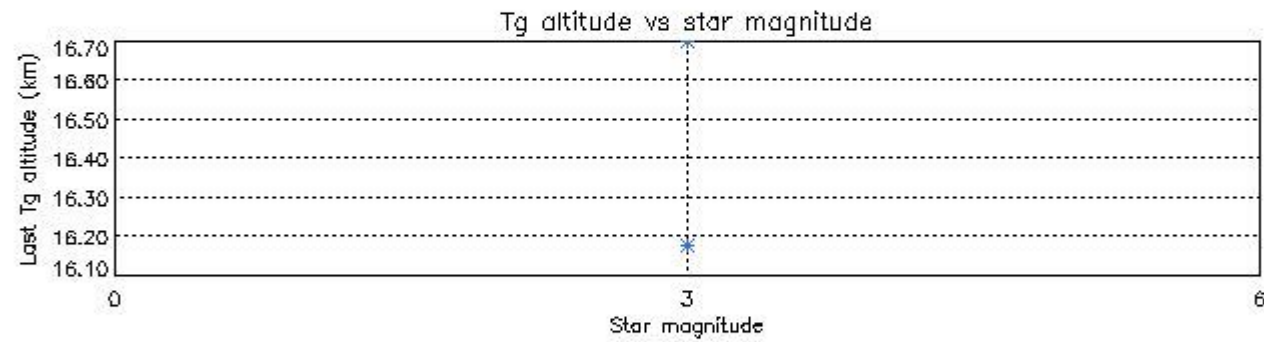
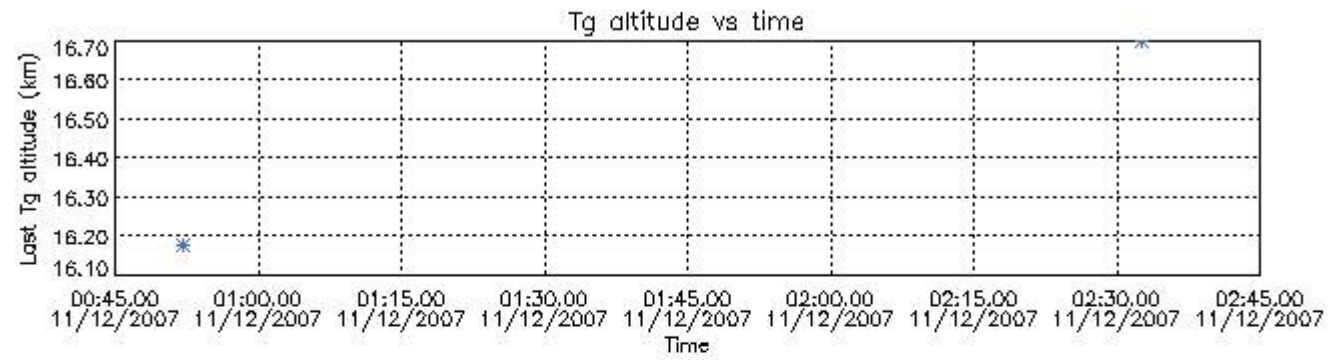
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

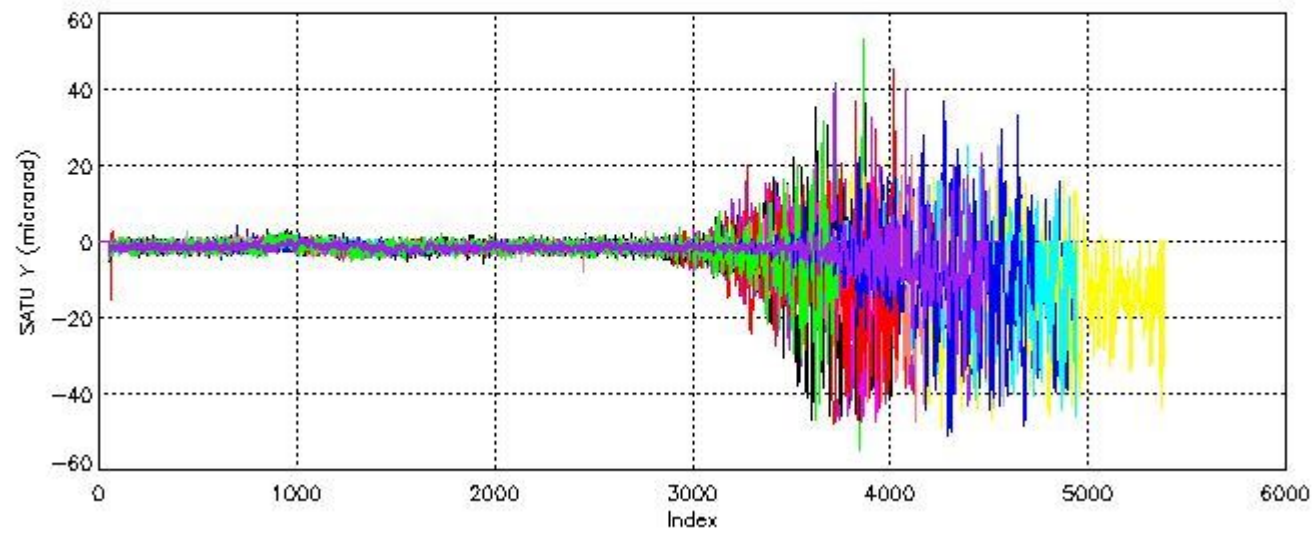
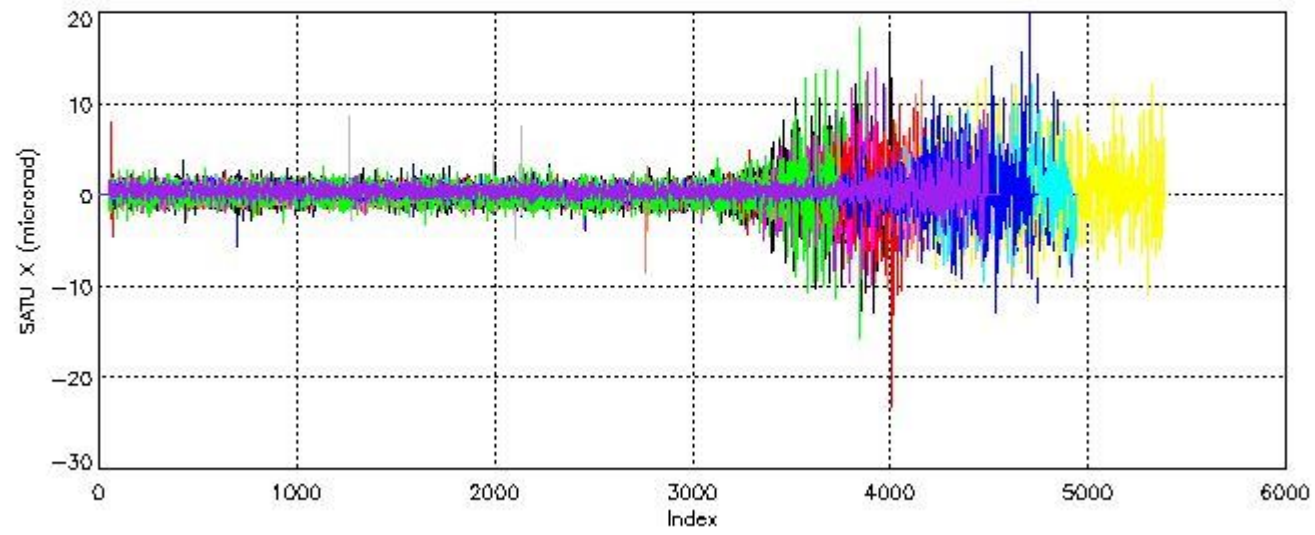


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21172	-1.1515	0.11681	-1.1771
St. deviation:	0.48292	0.75316	0.96947	1.2571
Maximum:	3.7000	4.3000	7.1000	5.4000
Minimum:	-5.6000	-5.4000	-6.6000	-7.9000

Number of data:	13700.	13700.	21000.	21000.
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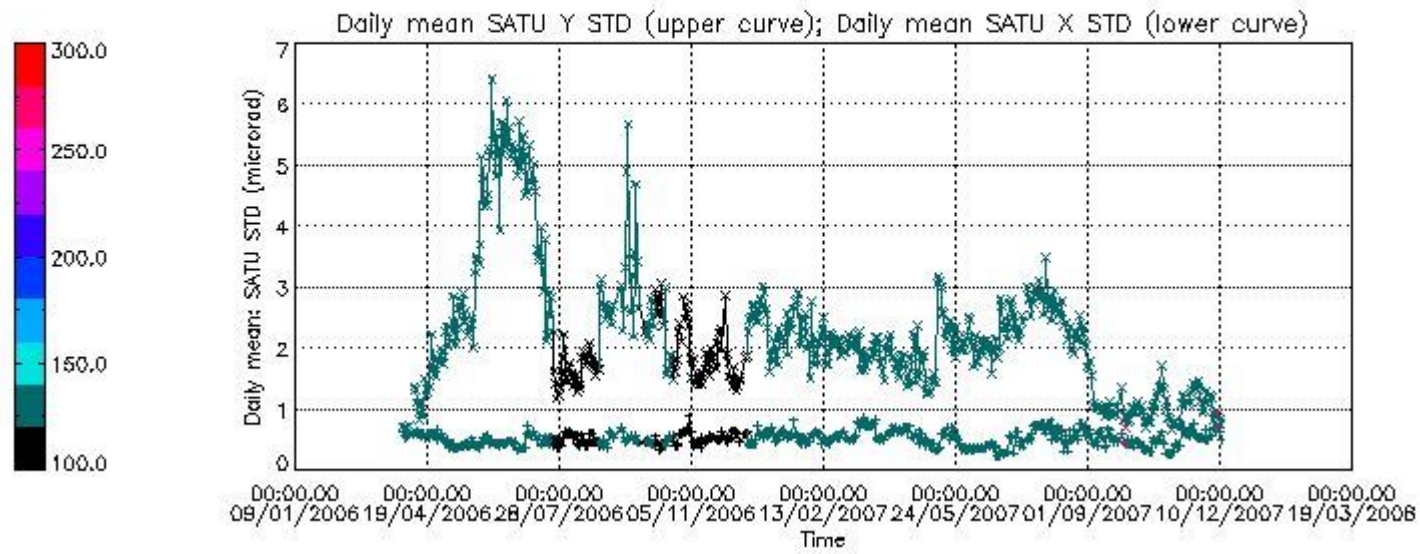
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

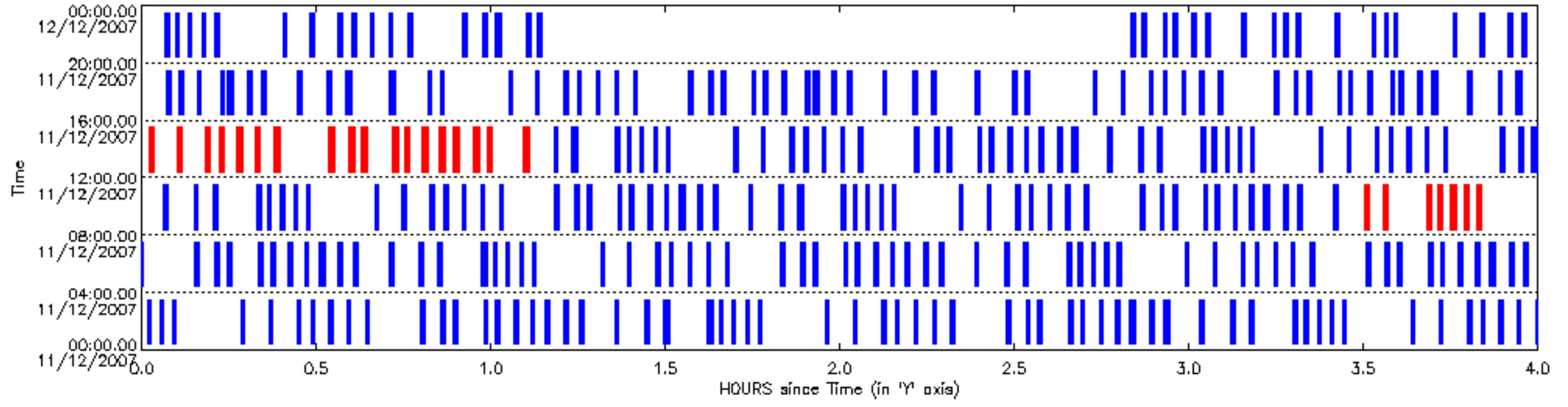
Lower curve: STD of SATU X axis

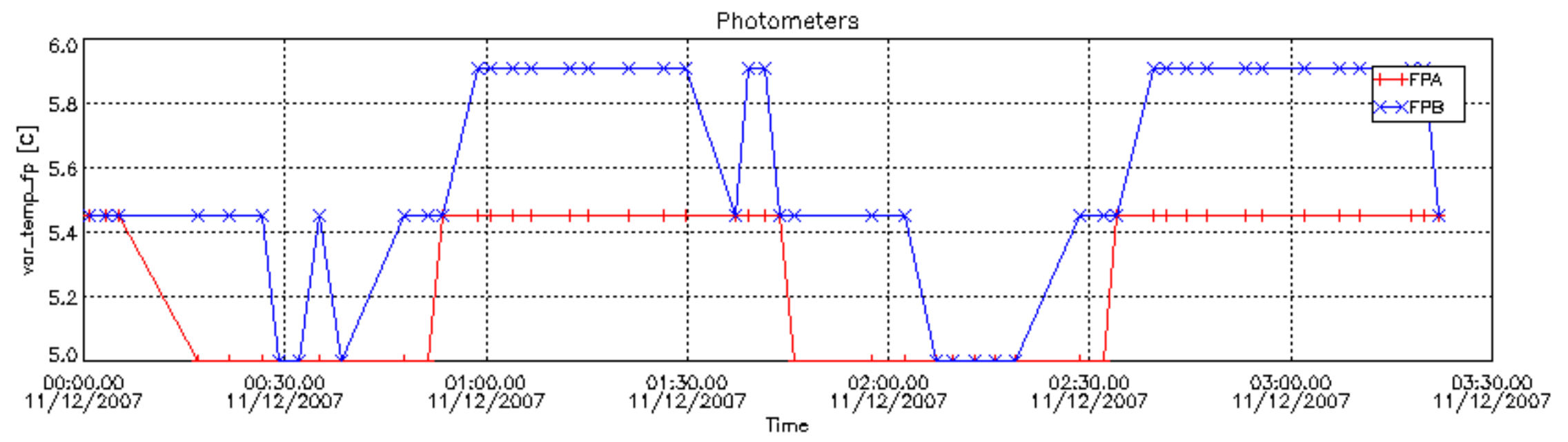
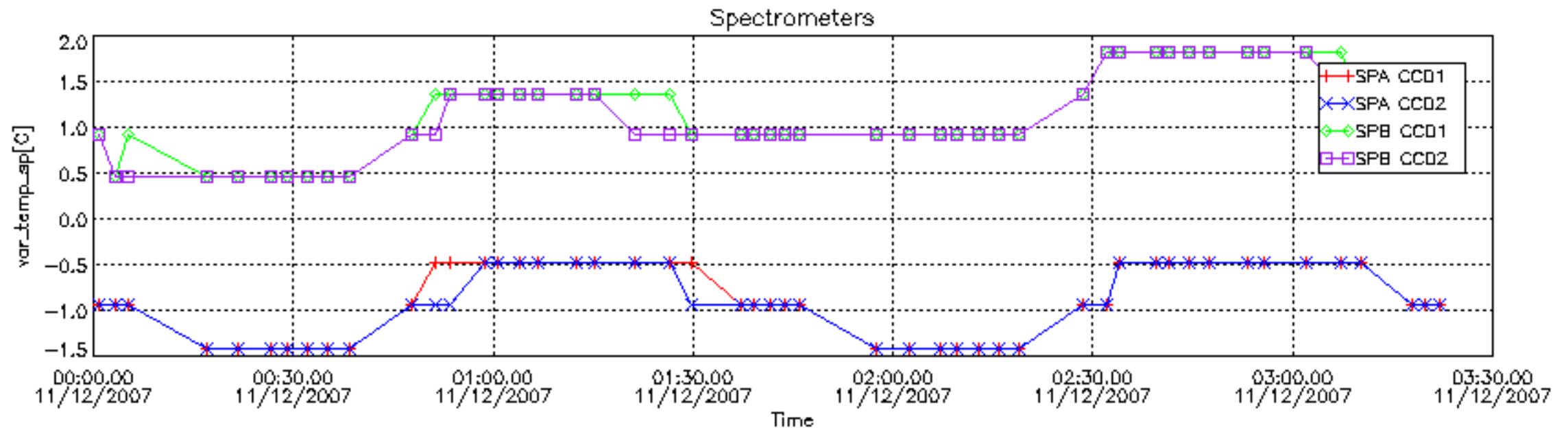


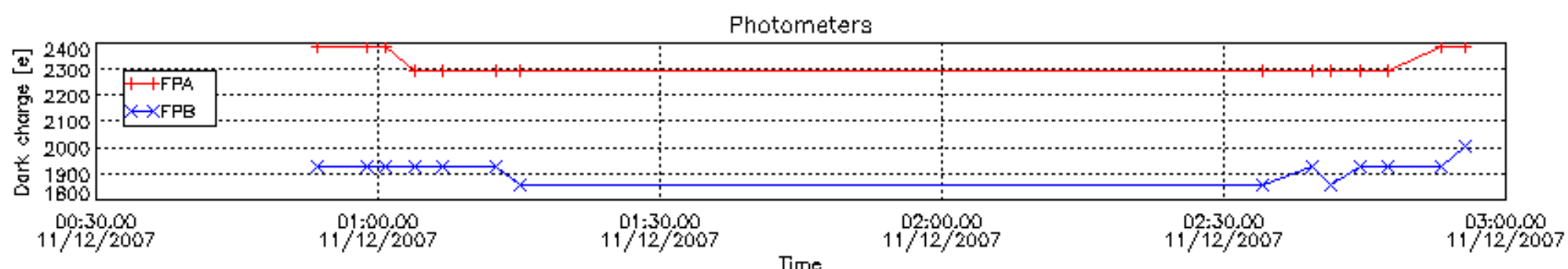
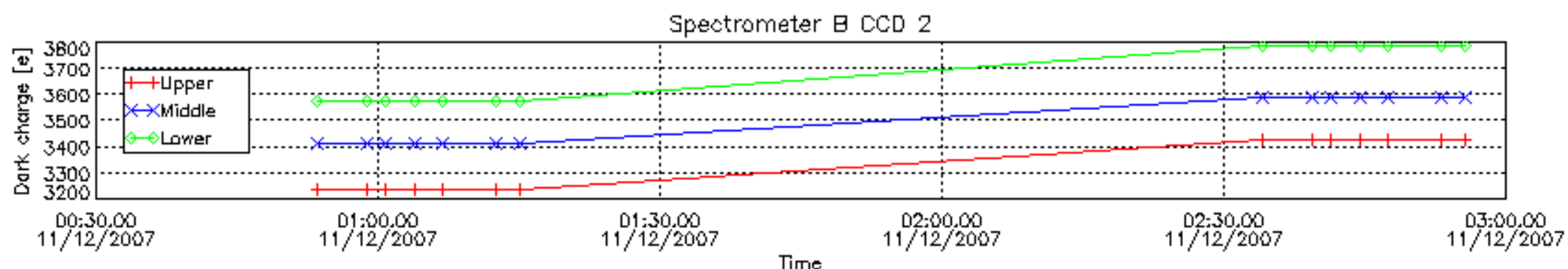
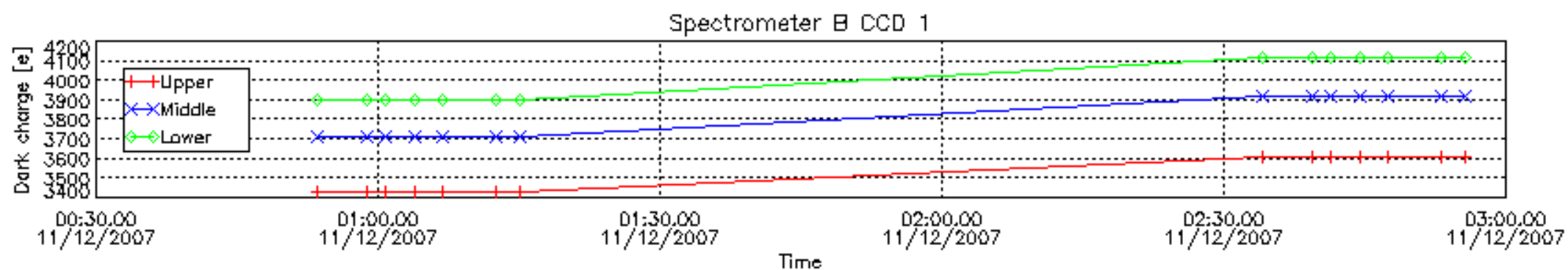
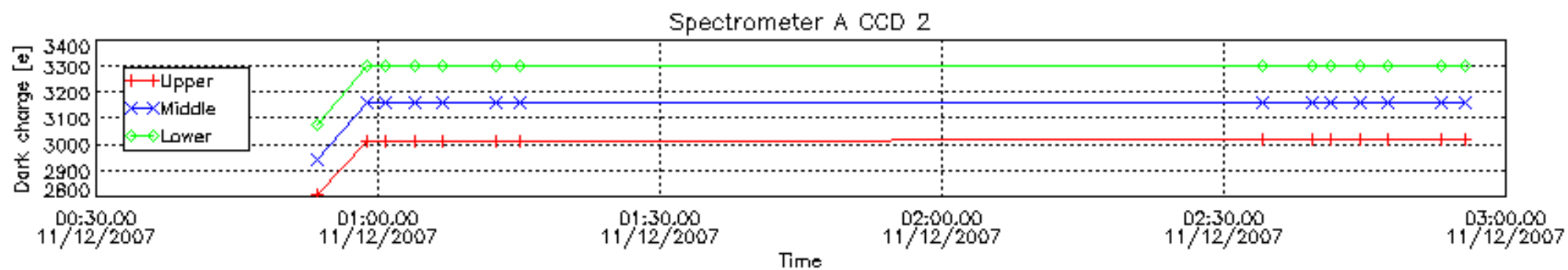
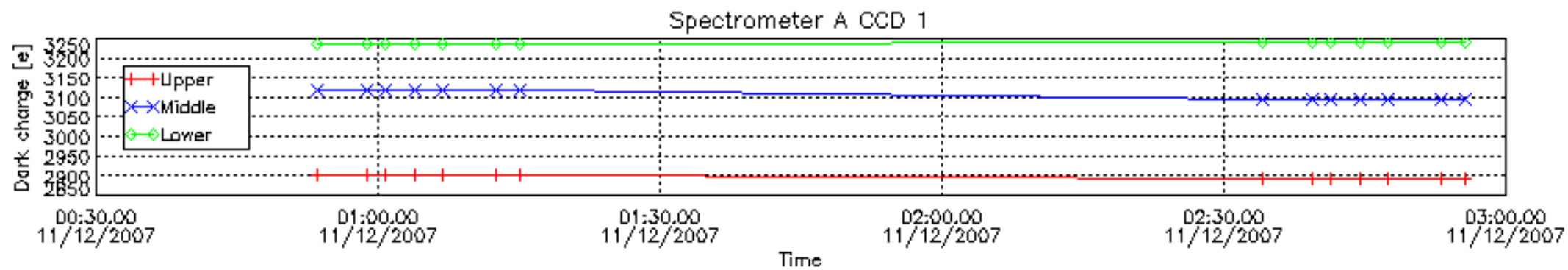
8. Auxiliary Data Files used for the production reported in section 2.4

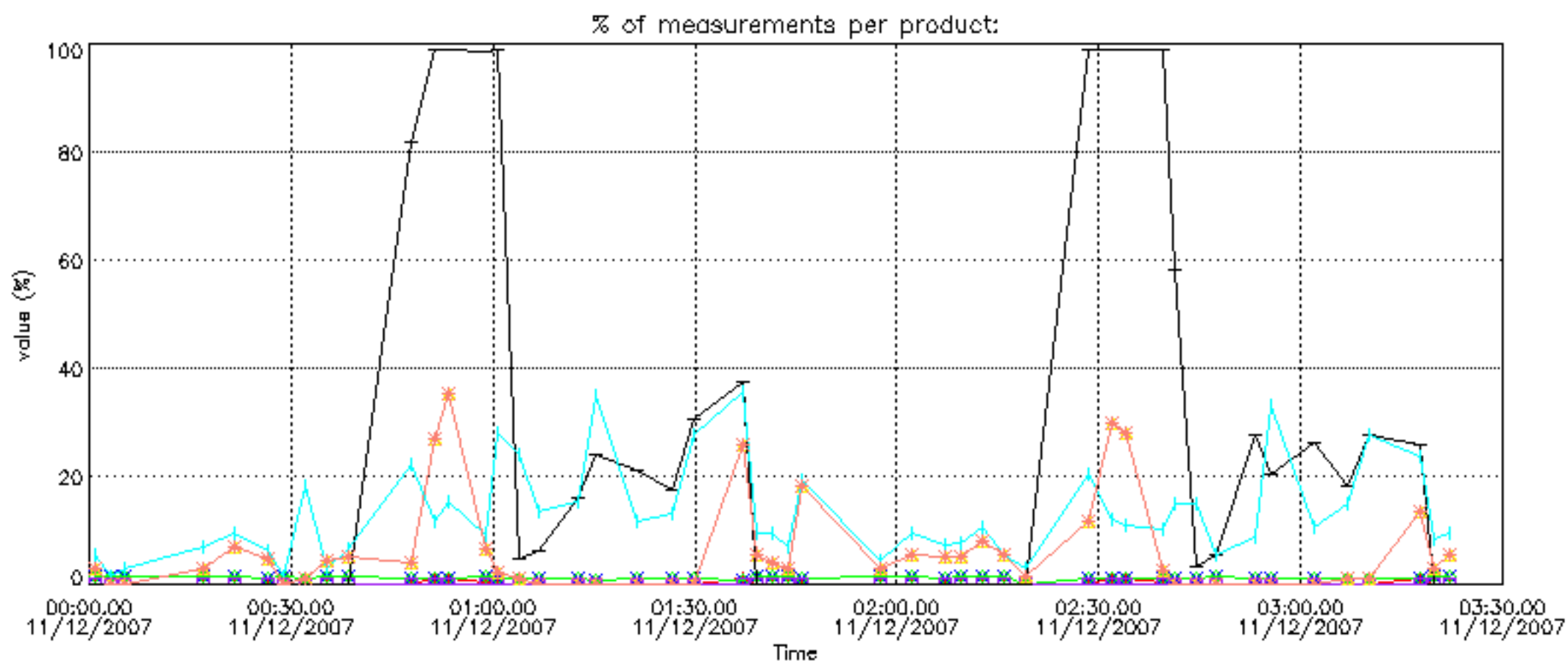
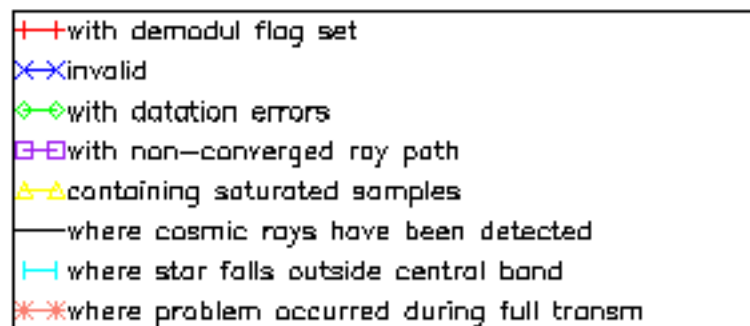
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-DEC-2007 00:00:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071207_090506_20071205_000000_20100101_000000	1	11-DEC-2007 00:00:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-DEC-2007 00:00:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-DEC-2007 00:00:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-DEC-2007 00:00:50
ECMWF_FILE	AUX_ECF_AXNECM20071211_101658_20071210_210000_20071211_090000	1	11-DEC-2007 00:00:50
OPTIONAL_ECMWF_FILE	MISSING	1	11-DEC-2007 00:00:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071210_230311_000057382064_00101_30215_4727.N1	1	11-DEC-2007 00:00:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071211_004408_000057382064_00102_30216_4728.N1	11	11-DEC-2007 00:47:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071211_021947_000044632064_00103_30217_4729.N1	35	11-DEC-2007 02:28:29

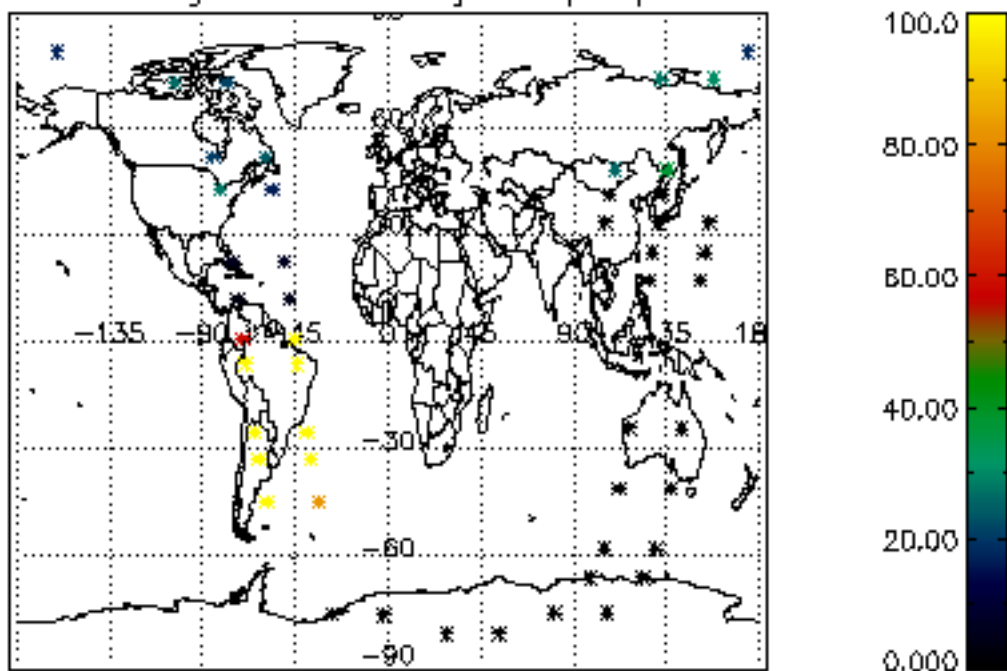




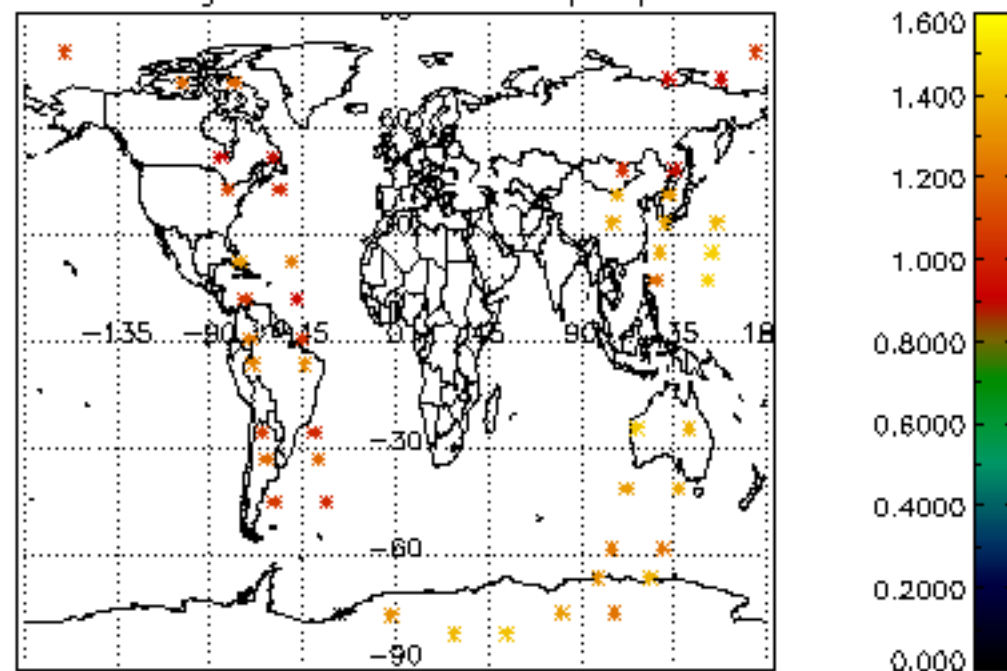




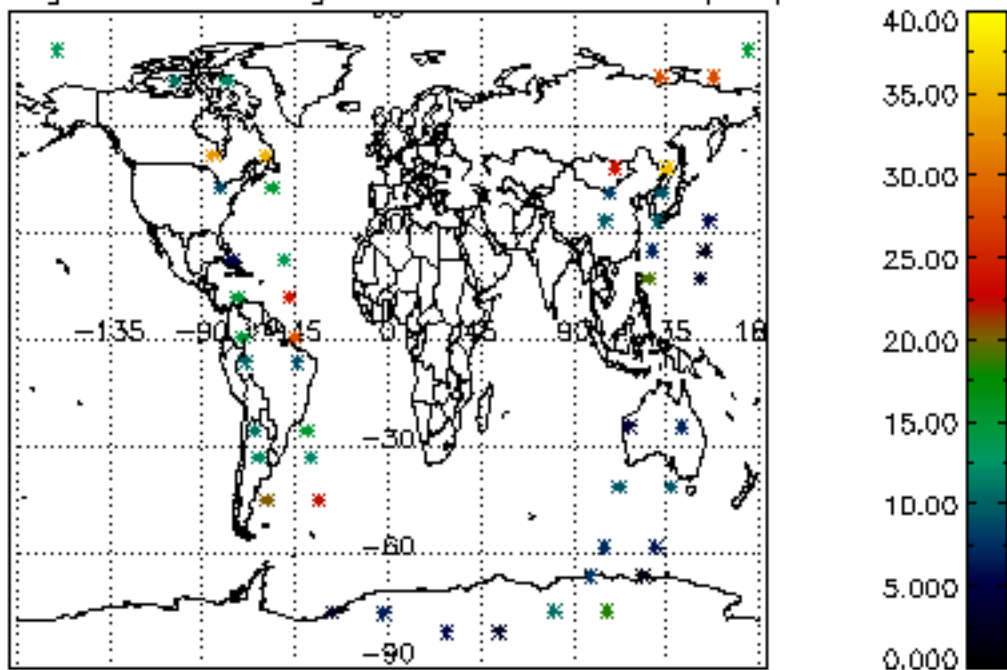
Percentage of cosmic ray hits per profile



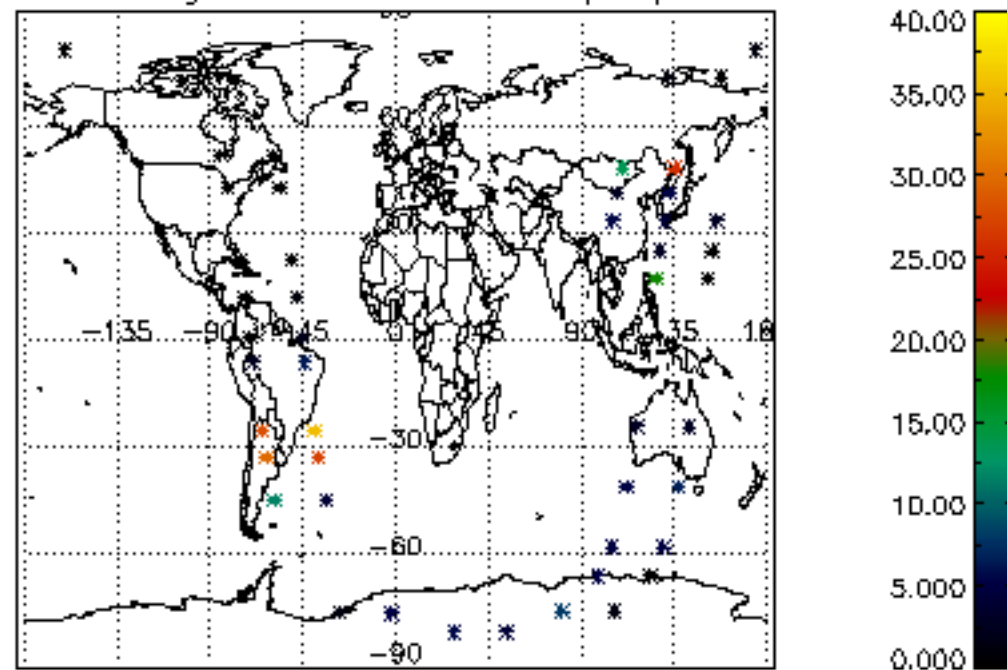
Percentage of datation errors per profile



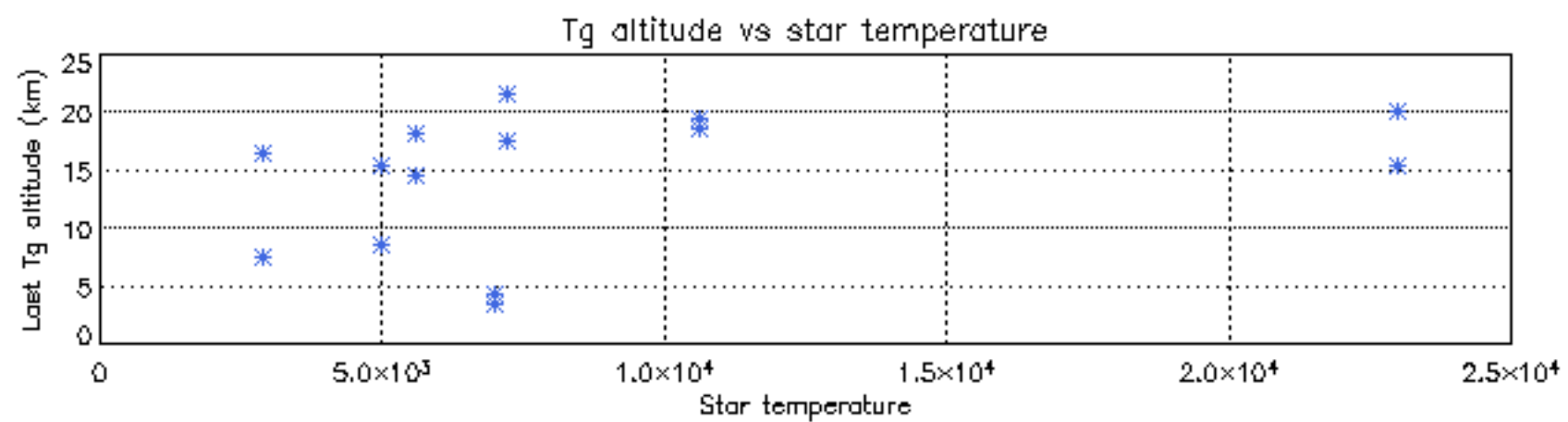
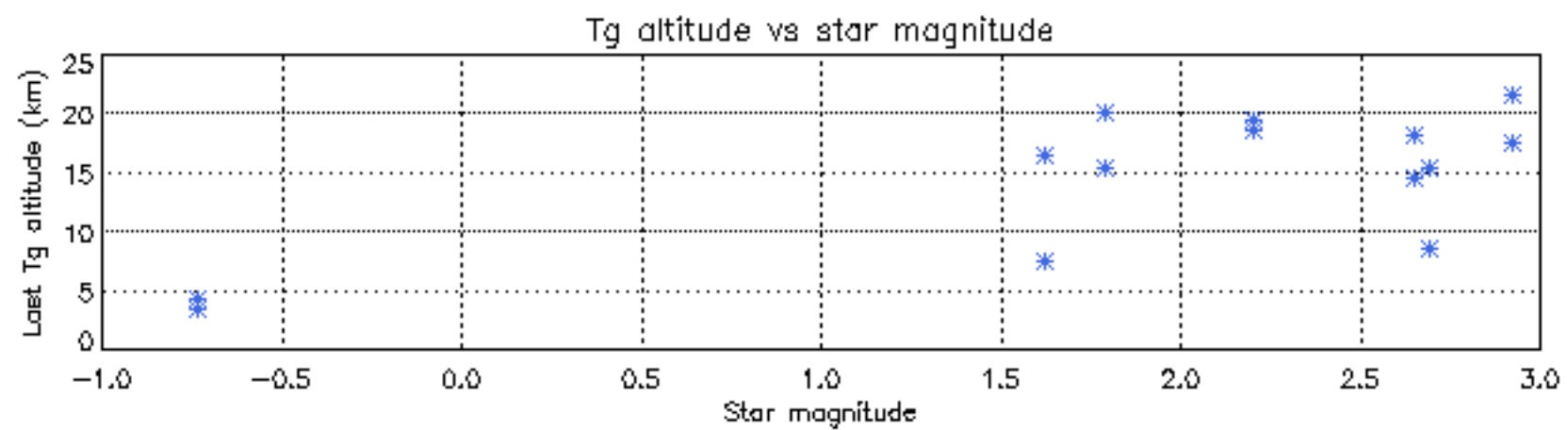
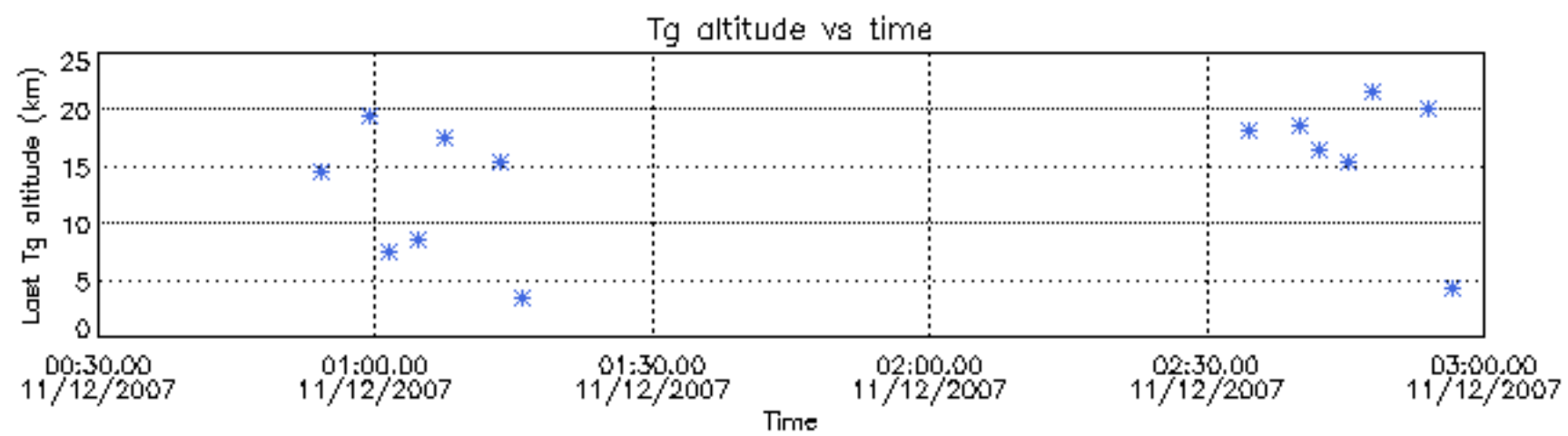
Percentage of star falling outside central band per profile



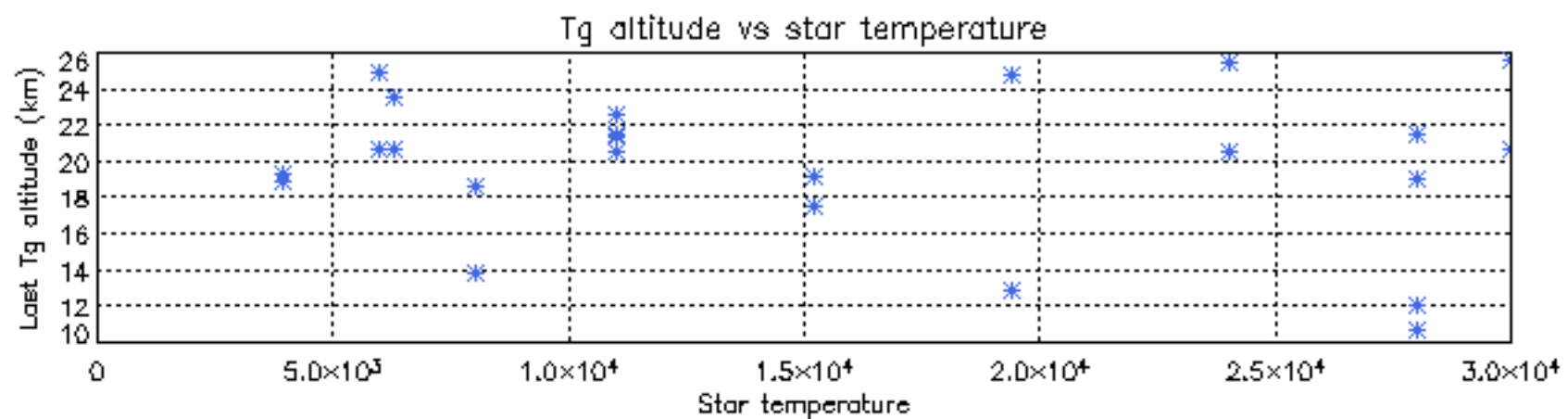
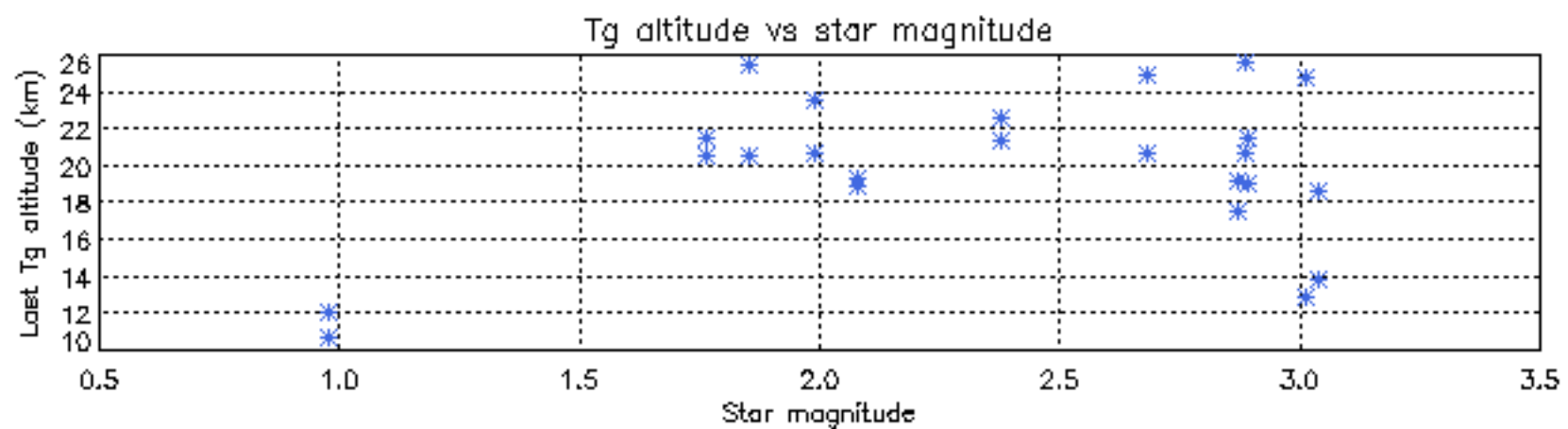
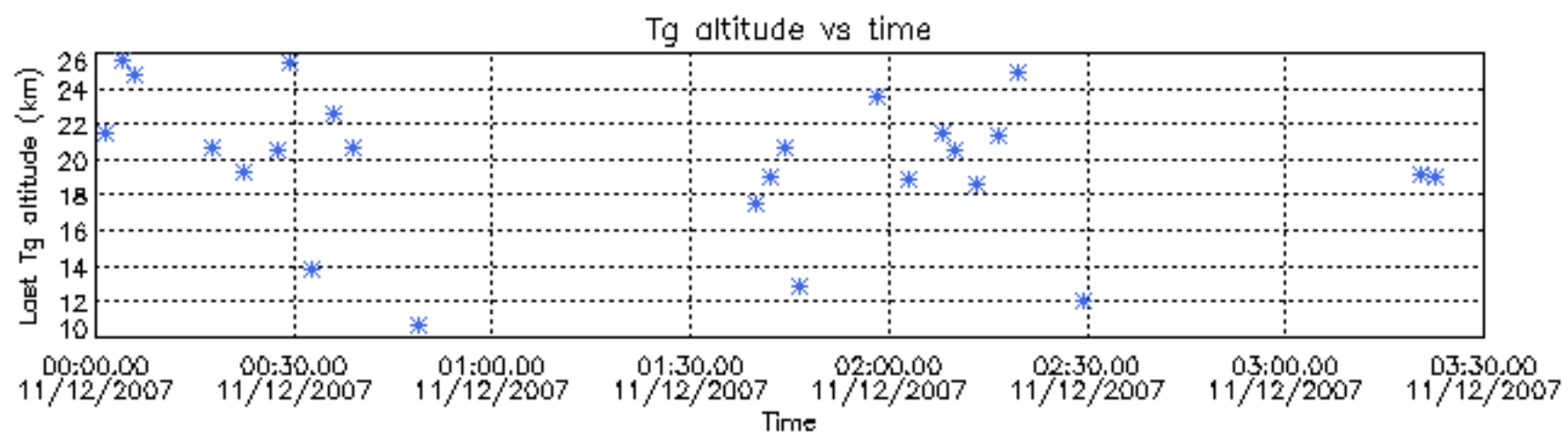
Percentage of saturation errors per profile



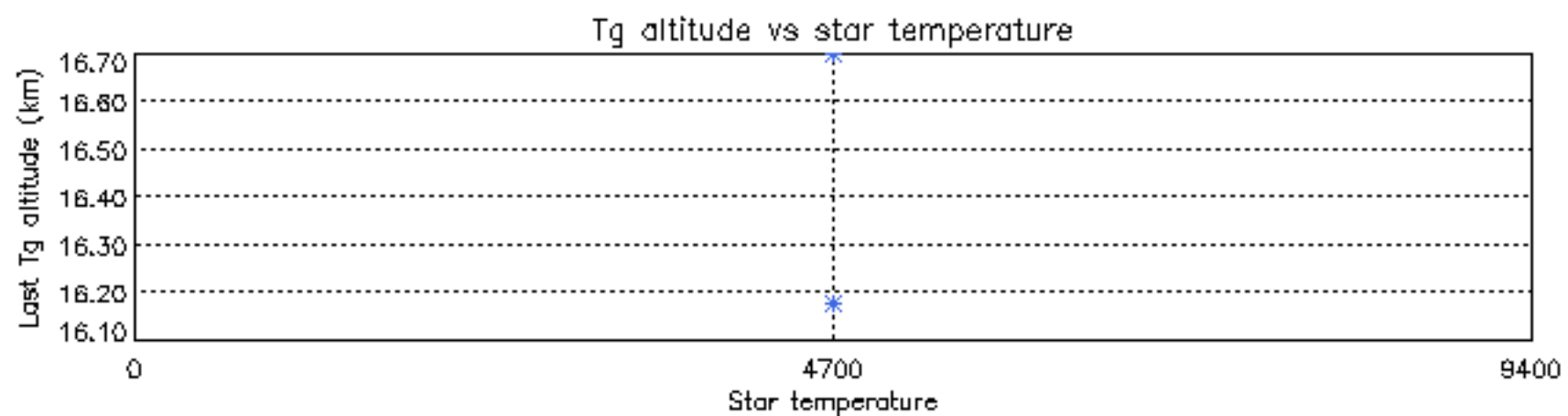
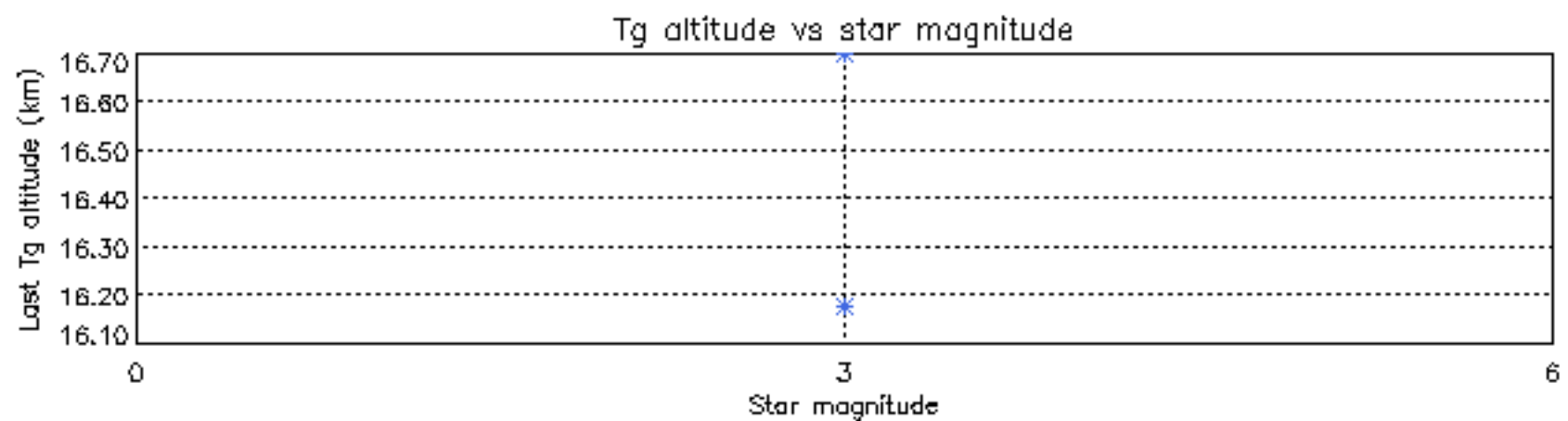
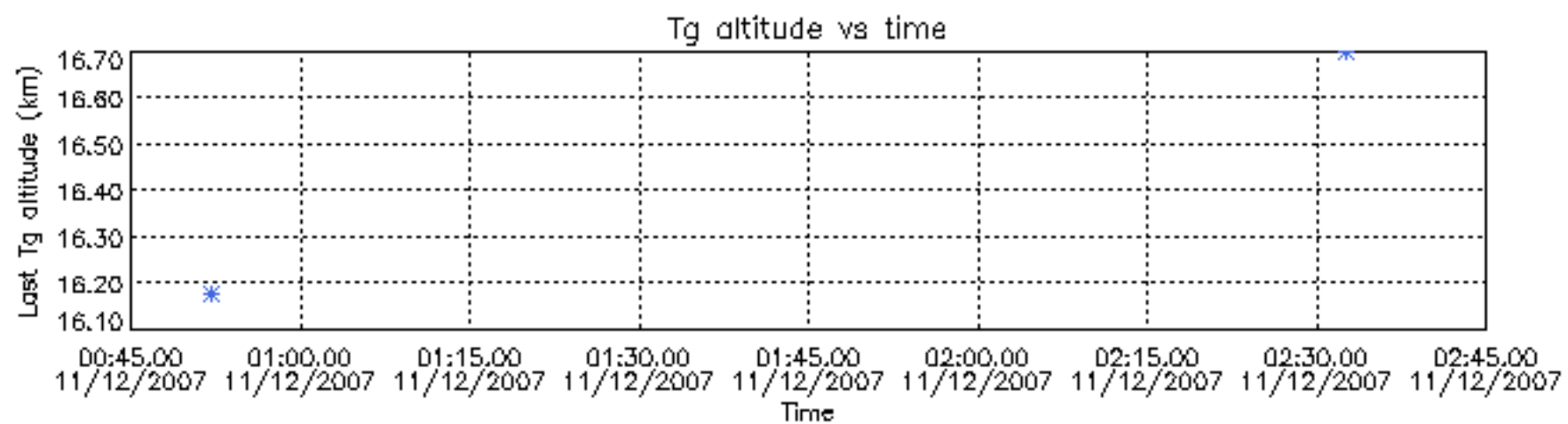
Tangent altitude at which the star is lost

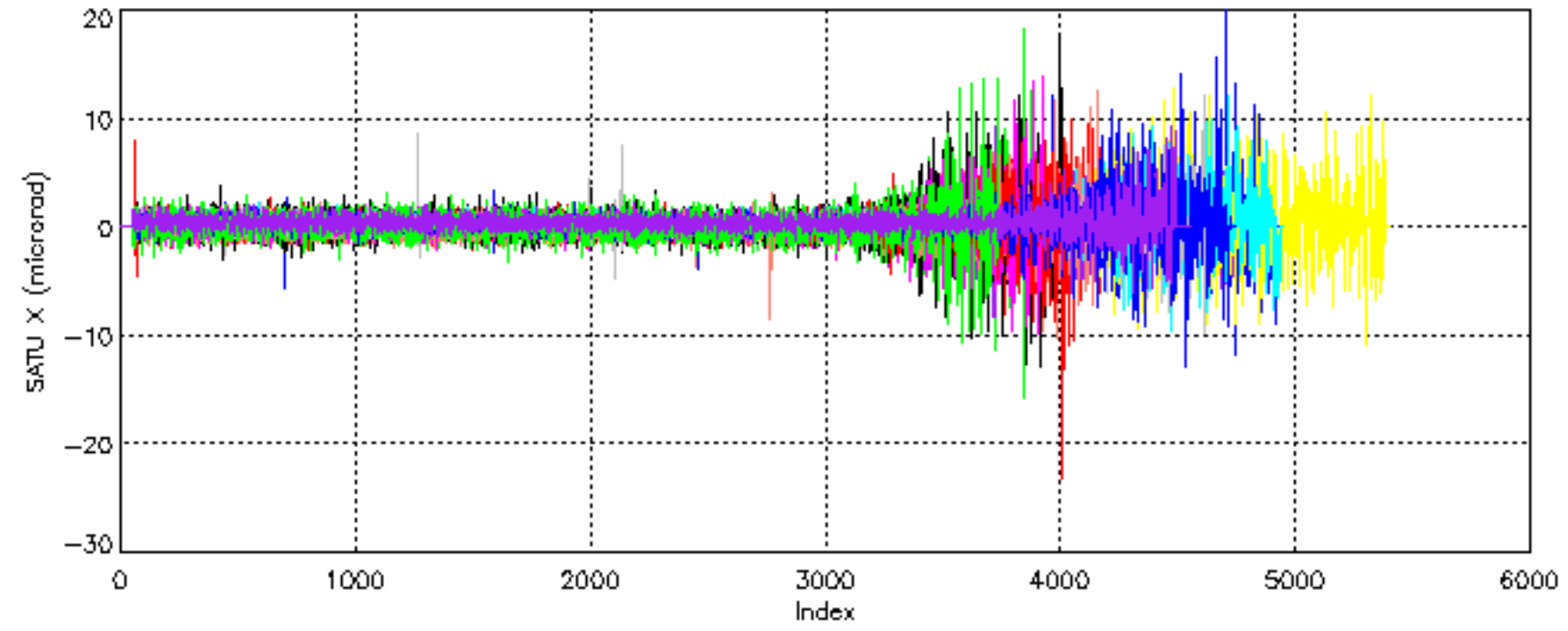


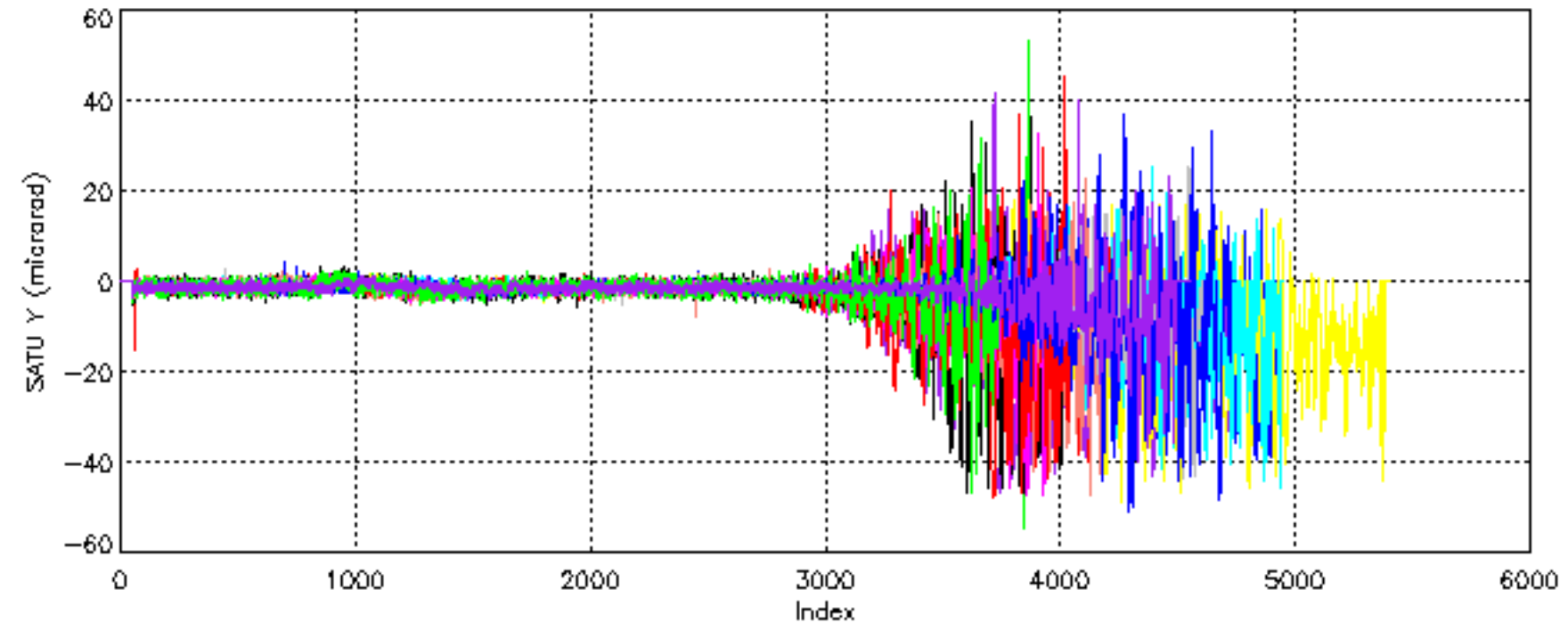
Tangent altitude at which the star is lost

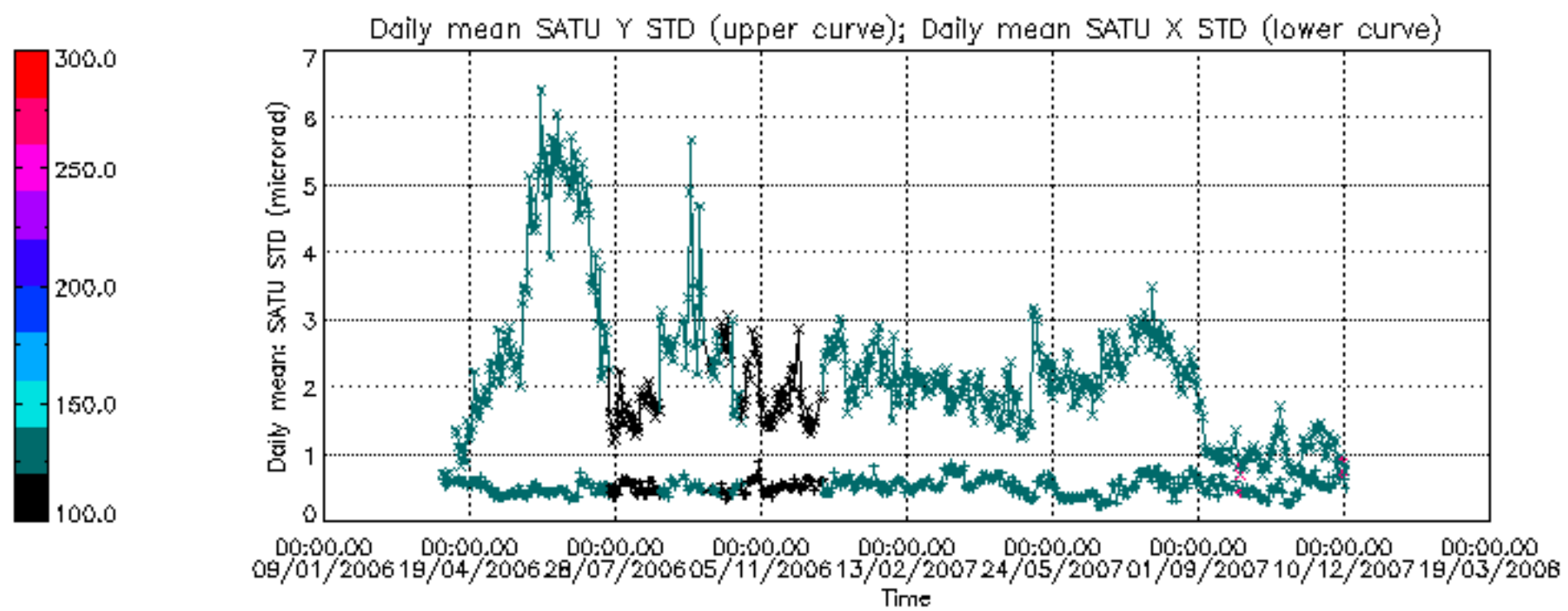


Tangent altitude at which the star is lost









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 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
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 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
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 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
 16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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 3; -1897.3; 01-DEC-2007 04:04:30; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0;30075
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 21; 2472.0; 01-DEC-2007 05:17:19; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30076


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9; 466.4; 13-DEC-2007 01:45:42; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30246
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 14; 4871.4; 27-DEC-2007 15:43:41; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30454
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 23; 6531.7; 27-DEC-2007 16:11:21; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30454
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 25; 6730.0; 27-DEC-2007 16:14:40; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;30454
 26; 6995.5; 27-DEC-2007 16:19:05; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;30454

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 23; 6415.6; 27-DEC-2007 17:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30455
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 25; 6629.0; 27-DEC-2007 17:53:35; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30455
 26; 6730.4; 27-DEC-2007 17:55:16; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30455
 27; 6995.8; 27-DEC-2007 17:59:41; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;30455

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 17; 4872.0; 27-DEC-2007 19:04:54; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30456
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22; 5893.4; 27-DEC-2007 19:21:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30456
 23; 6015.8; 27-DEC-2007 19:23:57; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30456
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 29; 6996.0; 27-DEC-2007 19:40:18; Dark ; 5.0; 2; Alp Car ; -0.74; 7000;occ; 10; 0;30456

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 11; 1307.0; 27-DEC-2007 23:07:16; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30459
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 15; 2012.9; 27-DEC-2007 23:19:02; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;30459
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 22; 3696.7; 27-DEC-2007 23:47:06; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30459
 23; 3917.8; 27-DEC-2007 23:50:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30459
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 25; 4534.3; 28-DEC-2007 00:01:04; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30459
 26; 4872.5; 28-DEC-2007 00:06:42; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30459
 27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459

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