

GOMOS Daily Report 14-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	16DEC2007 05:38:40
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (14DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (15DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

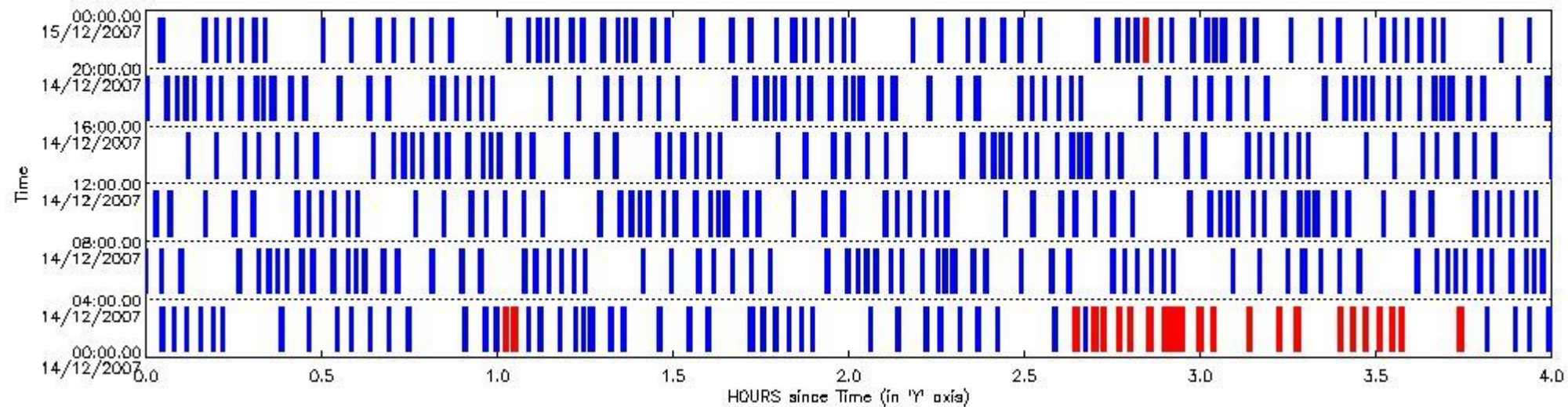
2.1 Level 0 products arrived in PCF (see template [here](#))

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
14-DEC-2007 01:00:51	IotCen	123	30259
14-DEC-2007 01:02:26	ZetCen	95	30259
14-DEC-2007 02:38:11	46GamHya	169	30260
14-DEC-2007 02:41:28	IotCen	123	30260
14-DEC-2007 02:43:02	ZetCen	95	30260
14-DEC-2007 02:45:34	GamCen	64	30260
14-DEC-2007 02:47:31	BetCru	20	30261
14-DEC-2007 02:50:54	MuVel	113	30261
14-DEC-2007 02:53:33	UpsCar	159	30261
14-DEC-2007 02:54:50	IotCar	71	30261
14-DEC-2007 02:56:08	DSA1030	0	30261
14-DEC-2007 02:59:27	Gam2Vel	34	30261
14-DEC-2007 03:01:46	AlpCar	2	30261
14-DEC-2007 03:07:51	AlpCol	108	30261
14-DEC-2007 03:12:55	11AlpLep	101	30261

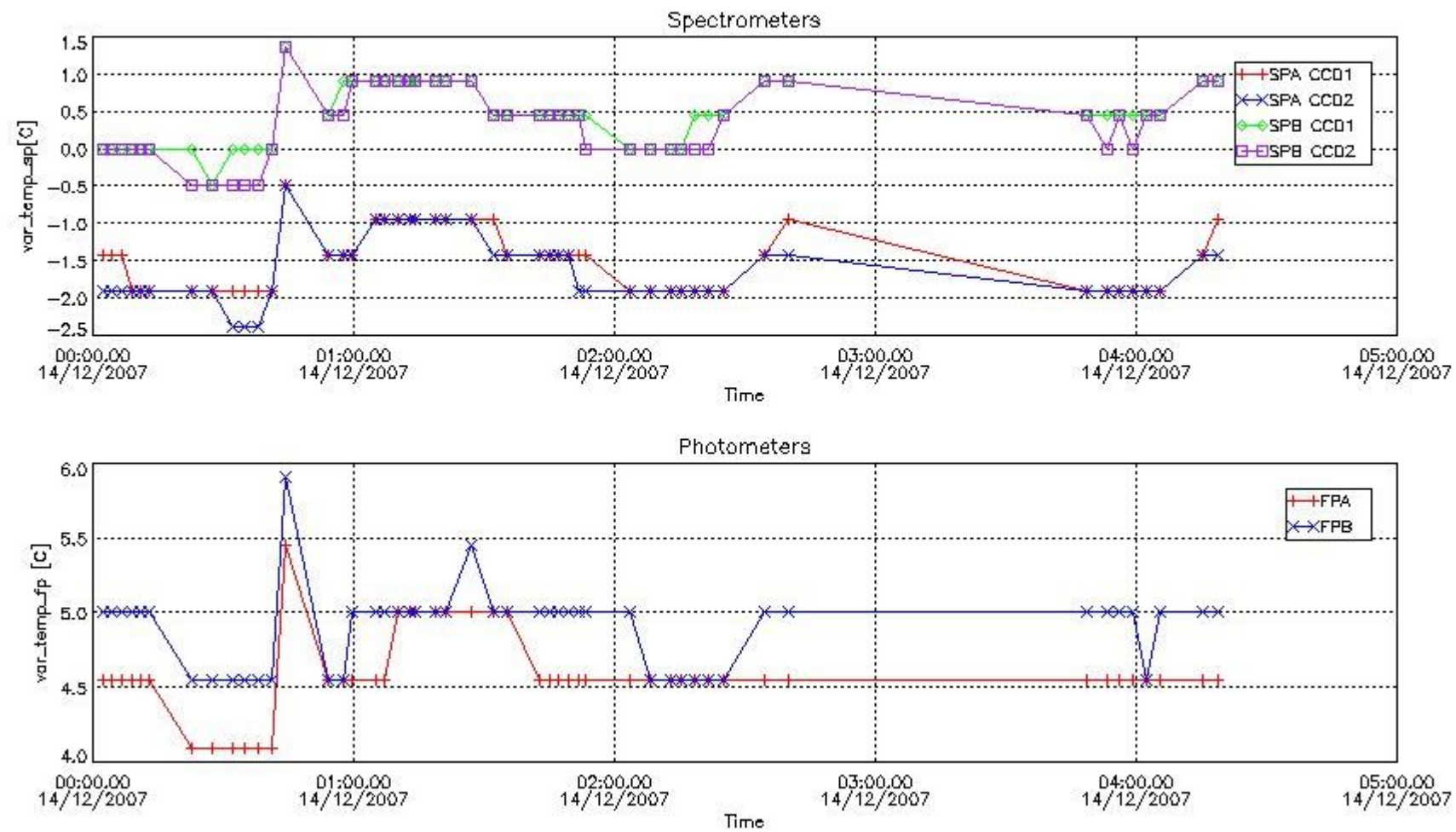
14-DEC-2007 03:16:04	19BetOri	7	30261
14-DEC-2007 03:23:28	87AlpTau	13	30261
14-DEC-2007 03:25:34	25EtaTau	146	30261
14-DEC-2007 03:27:45	44ZetPer	150	30261
14-DEC-2007 03:30:04	45EpsPer	149	30261
14-DEC-2007 03:32:14	39DelPer	175	30261
14-DEC-2007 03:33:56	23GamPer	160	30261
14-DEC-2007 03:43:57	1AlpUMi	49	30261
14-DEC-2007 22:50:18	ZetCen	95	30272

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_1PNPDE20071214_000216_000000502064_00145_30259_5648.N1	14-DEC-2007 00:02:16	Twilight	49.500	13	87Alp Tau	0.86700	3800.0	99	30259	No
2	GOM_TRA_1PNPDE20071214_000422_000000362064_00145_30259_5649.N1	14-DEC-2007 00:04:22	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30259	No
3	GOM_TRA_1PNPDE20071214_000634_000000372064_00145_30259_5650.N1	14-DEC-2007 00:06:34	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30259	No
4	GOM_TRA_1PNPDE20071214_000852_000000362064_00145_30259_5651.N1	14-DEC-2007 00:08:52	Bright	36.000	149	45Eps Per	2.8880	30000.	72	30259	No
5	GOM_TRA_1PNPDE20071214_001103_000000342064_00145_30259_5652.N1	14-DEC-2007 00:11:03	Bright	33.500	175	39Del Per	3.0100	19400.	67	30259	No
6	GOM_TRA_1PNPDE20071214_001245_000000342064_00145_30259_5653.N1	14-DEC-2007 00:12:45	Bright	34.000	160	23Gam Per	2.9300	4700.0	68	30259	No
7	GOM_TRA_1PNPDE20071214_002245_000000362064_00145_30259_5654.N1	14-DEC-2007 00:22:45	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30259	No
8	GOM_TRA_1PNPDE20071214_002728_000000372064_00145_30259_5655.N1	14-DEC-2007 00:27:28	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30259	No
9	GOM_TRA_1PNPDE20071214_003213_000000412064_00145_30259_5656.N1	14-DEC-2007 00:32:13	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	30259	No
10	GOM_TRA_1PNPDE20071214_003442_000000392064_00145_30259_5657.N1	14-DEC-2007 00:34:42	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	30259	No
11	GOM_TRA_1PNPDE20071214_003757_000000352064_00145_30259_5658.N1	14-DEC-2007 00:37:57	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	30259	No
12	GOM_TRA_1PNPDE20071214_004108_000000362064_00145_30259_5659.N1	14-DEC-2007 00:41:08	Bright	35.500	83		2.3780	11000.	71	30259	No
13	GOM_TRA_1PNPDE20071214_004422_000000402064_00145_30259_5839.N1	14-DEC-2007 00:44:22	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	30259	Yes
14	GOM_TRA_1PNPDE20071214_005405_000000492064_00145_30259_5840.N1	14-DEC-2007 00:54:05	Twilight	49.000	15	67Alp Vir	0.97600	28000.	98	30259	No
15	GOM_TRA_1PNPDE20071214_005734_000000452064_00145_30259_5841.N1	14-DEC-2007 00:57:34	Twilight	45.000	169	46Gam Hya	2.9910	4700.0	90	30259	No
16	GOM_TRA_1PNPDE20071214_005924_000000412064_00145_30259_5842.N1	14-DEC-2007 00:59:24	Twilight	41.000	54	5The Cen	2.0550	4500.0	82	30259	No
17	GOM_TRA_1PNPDE20071214_010458_000000402064_00145_30259_5843.N1	14-DEC-2007 01:04:58	Dark	39.500	64	Gam Cen	2.2000	10600.	79	30259	No
18	GOM_TRA_1PNPDE20071214_010655_000000392064_00146_30260_5844.N1	14-DEC-2007 01:06:55	Dark	38.500	20	Bet Cru	1.2530	30000.	77	30260	No
19	GOM_TRA_1PNPDE20071214_011017_000000442064_00146_30260_5845.N1	14-DEC-2007 01:10:17	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30260	No
20	GOM_TRA_1PNPDE20071214_011257_000000382064_00146_30260_5846.N1	14-DEC-2007 01:12:57	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30260	No
21	GOM_TRA_1PNPDE20071214_011414_000000412064_00146_30260_5847.N1	14-DEC-2007 01:14:14	Dark	41.000	71	lot Car	2.2460	7700.0	82	30260	No
22	GOM_TRA_1PNPDE20071214_011850_000000492064_00146_30260_5848.N1	14-DEC-2007 01:18:50	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	30260	No
23	GOM_TRA_1PNPDE20071214_012109_000000512064_00146_30260_5849.N1	14-DEC-2007 01:21:09	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	30260	No
24	GOM_TRA_1PNPDE20071214_012715_000000442064_00146_30260_5850.N1	14-DEC-2007 01:27:15	Straylight	44.000	108	Alp Col	2.6520	15200.	88	30260	No
25	GOM_TRA_1PNPDE20071214_013219_000000472064_00146_30260_5851.N1	14-DEC-2007 01:32:19	Straylight	47.000	101	11Alp Lep	2.5820	7000.0	94	30260	No
26	GOM_TRA_1PNPDE20071214_013528_000000512064_00146_30260_5852.N1	14-DEC-2007 01:35:28	Straylight	51.000	7	19Bet Ori	0.10000	14000.	102	30260	No
27	GOM_TRA_1PNPDE20071214_014252_000000502064_00146_30260_5853.N1	14-DEC-2007 01:42:52	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	30260	No
28	GOM_TRA_1PNPDE20071214_014458_000000372064_00146_30260_5854.N1	14-DEC-2007 01:44:58	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30260	No
29	GOM_TRA_1PNPDE20071214_014709_000000352064_00146_30260_5855.N1	14-DEC-2007 01:47:09	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30260	No
30	GOM_TRA_1PNPDE20071214_014928_000000352064_00146_30260_5856.N1	14-DEC-2007 01:49:28	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30260	No
31	GOM_TRA_1PNPDE20071214_015139_000000342064_00146_30260_5857.N1	14-DEC-2007 01:51:39	Bright	34.000	175	39Del Per	3.0100	19400.	68	30260	No
32	GOM_TRA_1PNPDE20071214_015321_000000362064_00146_30260_5858.N1	14-DEC-2007 01:53:21	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	30260	No
33	GOM_TRA_1PNPDE20071214_020321_000000332064_00146_30260_5859.N1	14-DEC-2007 02:03:21	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30260	No
34	GOM_TRA_1PNPDE20071214_020804_000000382064_00146_30260_5860.N1	14-DEC-2007 02:08:04	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30260	No
35	GOM_TRA_1PNPDE20071214_021249_000000422064_00146_30260_5861.N1	14-DEC-2007 02:12:49	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	30260	No
36	GOM_TRA_1PNPDE20071214_021518_000000392064_00146_30260_5862.N1	14-DEC-2007 02:15:18	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	30260	No
37	GOM_TRA_1PNPDE20071214_021834_000000352064_00146_30260_5863.N1	14-DEC-2007 02:18:34	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30260	No
38	GOM_TRA_1PNPDE20071214_022144_000000352064_00146_30260_5864.N1	14-DEC-2007 02:21:44	Bright	34.500	83		2.3780	11000.	69	30260	No
39	GOM_TRA_1PNPDE20071214_022459_000000402064_00146_30260_5865.N1	14-DEC-2007 02:24:59	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	30260	No
40	GOM_TRA_1PNPDE20071214_023441_000000522064_00146_30260_5866.N1	14-DEC-2007 02:34:41	Twilight	52.000	15	67Alp Vir	0.97600	28000.	104	30260	No
41	GOM_TRA_1PNPDE20071214_024001_000000422064_00146_30260_5867.N1	14-DEC-2007 02:40:01	Twilight	42.000	54	5The Cen	2.0550	4500.0	84	30260	No
42	GOM_TRA_1PNPDE20071214_034840_000000382064_00147_30261_6010.N1	14-DEC-2007 03:48:40	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30261	No
43	GOM_TRA_1PNPDE20071214_035324_000000422064_00147_30261_6011.N1	14-DEC-2007 03:53:24	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	30261	No
44	GOM_TRA_1PNPDE20071214_035554_000000382064_00147_30261_6012.N1	14-DEC-2007 03:55:54	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	30261	No
45	GOM_TRA_1PNPDE20071214_035909_000000542064_00147_30261_6013.N1	14-DEC-2007 03:59:09	Bright	54.000	180	27Gam Boo	3.0400	8000.0	108	30261	No

46	GOM_TRA_1PNPDE20071214_040220_000000362064_00147_30261_6014.N1	14-DEC-2007 04:02:20	Bright	36.000	83		2.3780	11000.	72	30261	No
47	GOM_TRA_1PNPDE20071214_040535_000000412064_00147_30261_6015.N1	14-DEC-2007 04:05:35	Bright	41.000	111	8Eta Boo	2.6800	6000.0	82	30261	No
48	GOM_TRA_1PNPDE20071214_041518_000000492064_00147_30261_6016.N1	14-DEC-2007 04:15:18	Twilight	48.500	15	67Alp Vir	0.97600	28000.	97	30261	No
49	GOM_TRA_1PNPDE20071214_041847_000000432064_00147_30261_6017.N1	14-DEC-2007 04:18:47	Twilight	43.000	169	46Gam Hya	2.9910	4700.0	86	30261	No

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



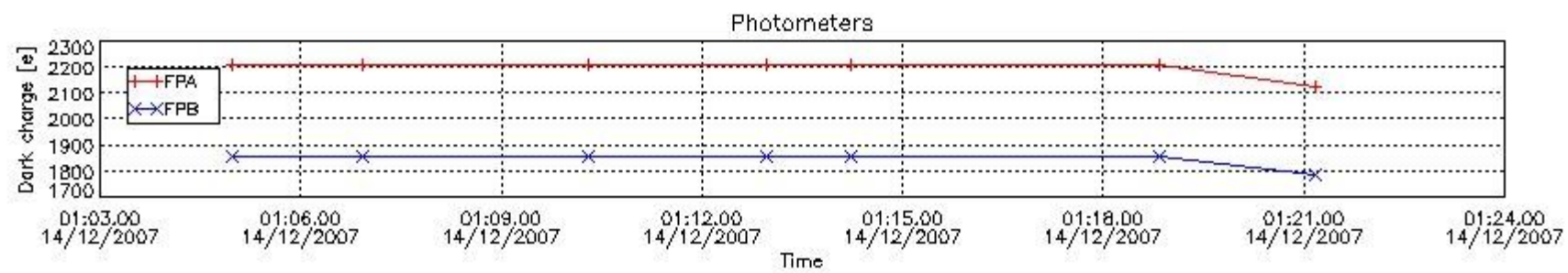
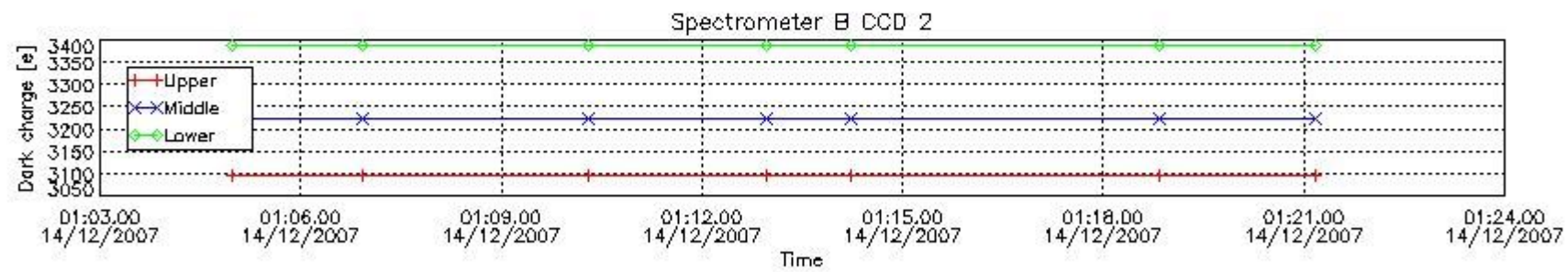
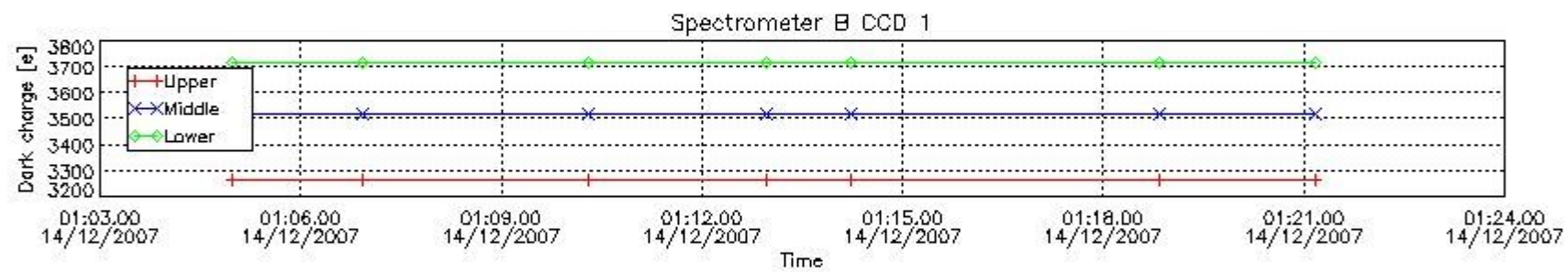
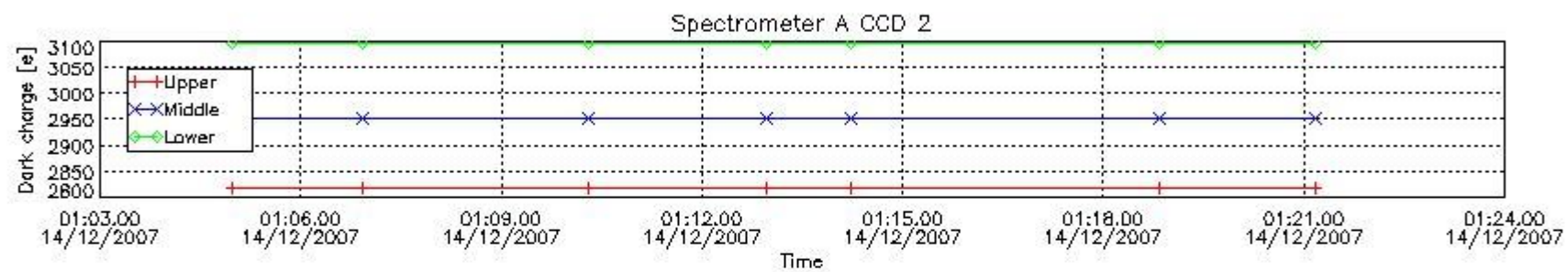
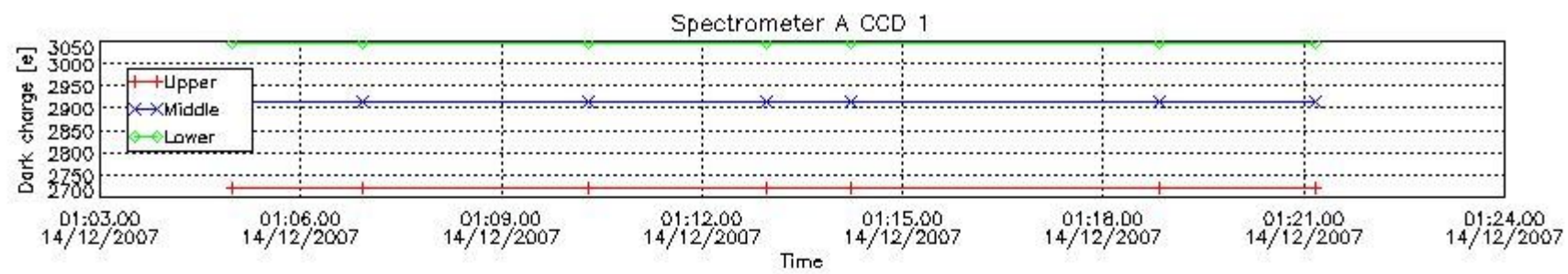
4. Overview of dark signal processing per product

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



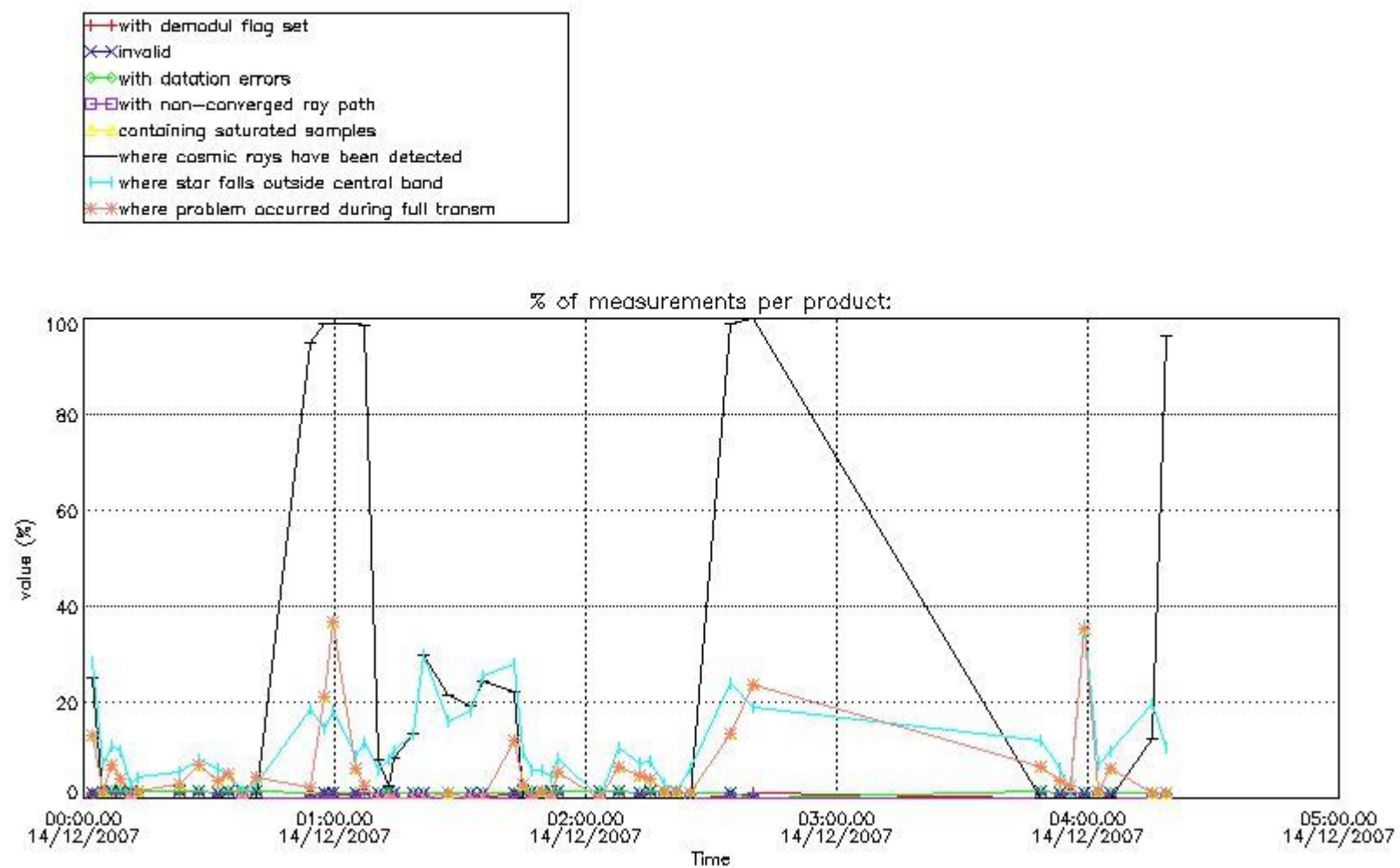
5. Demodulation flag and quality information monitoring

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.

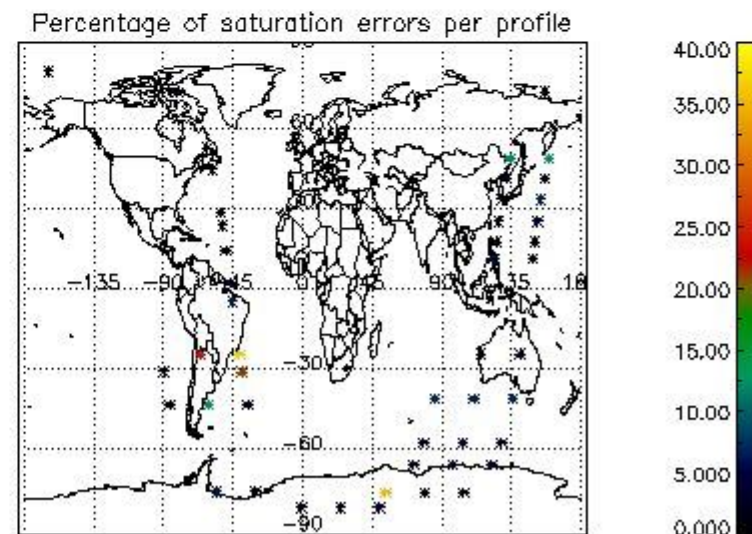
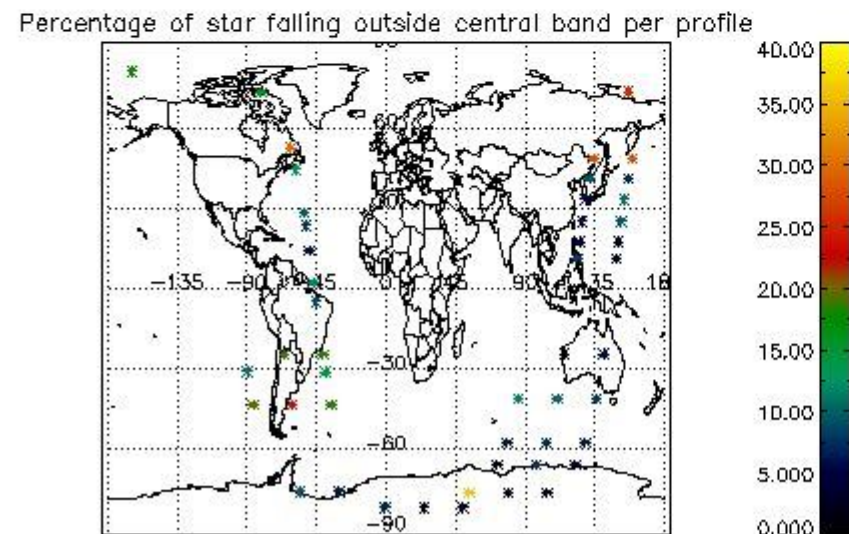
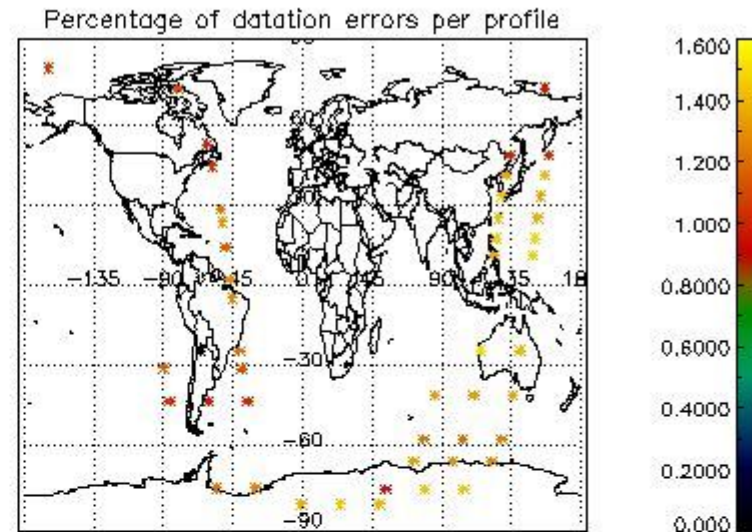
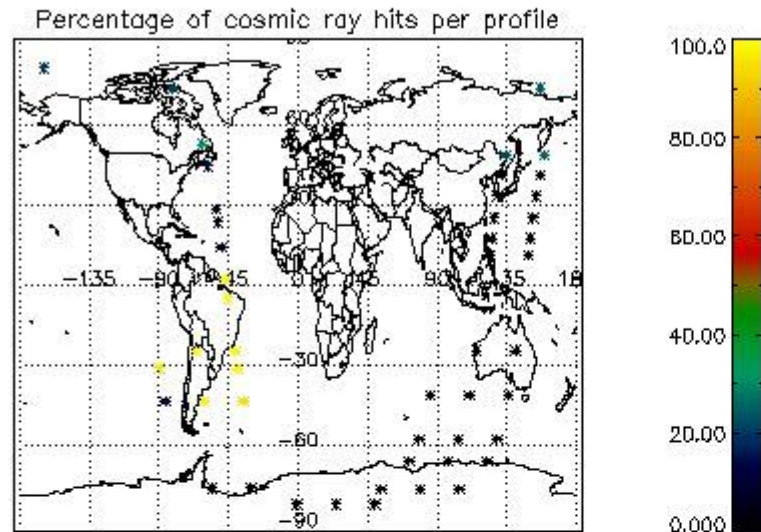
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.8333 %
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)



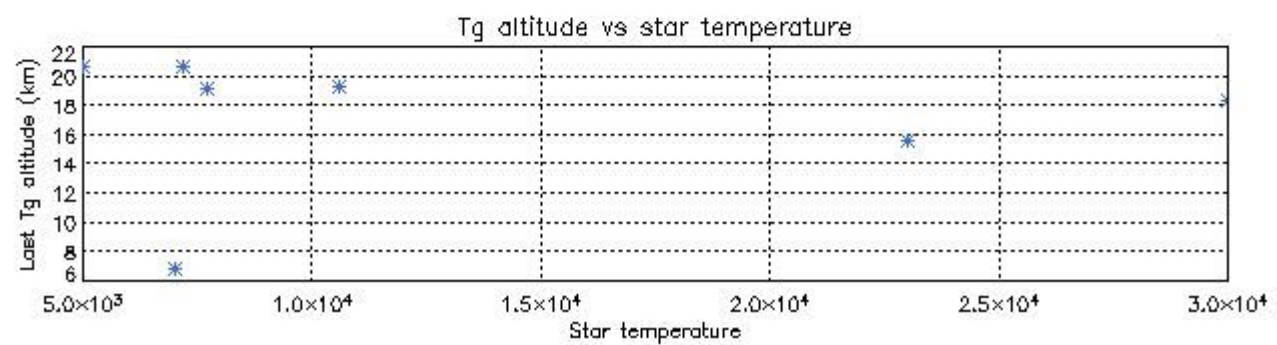
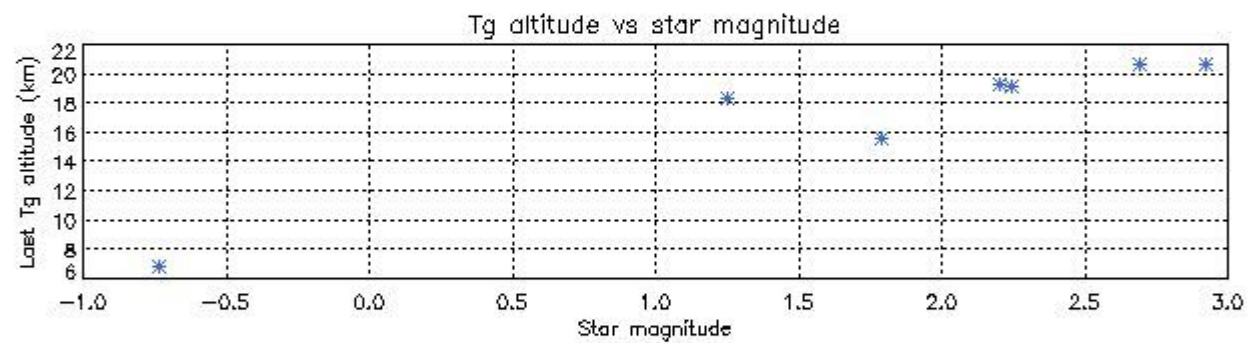
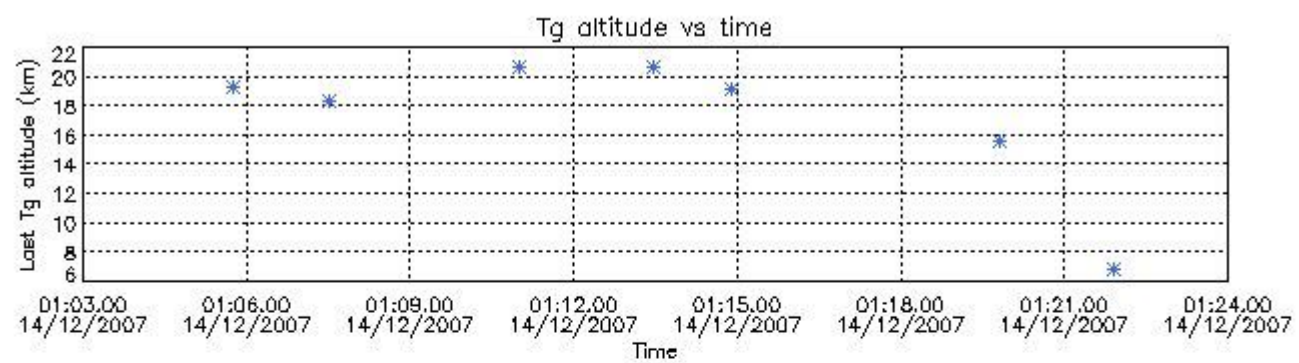
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.197	21.154	14.627
St. deviation:	4.8836	4.0286	1.7459
Maximum:	20.680	27.029	17.028
Minimum:	6.8134	4.1724	12.875
Number of data:	7.0000	29.000	4.0000

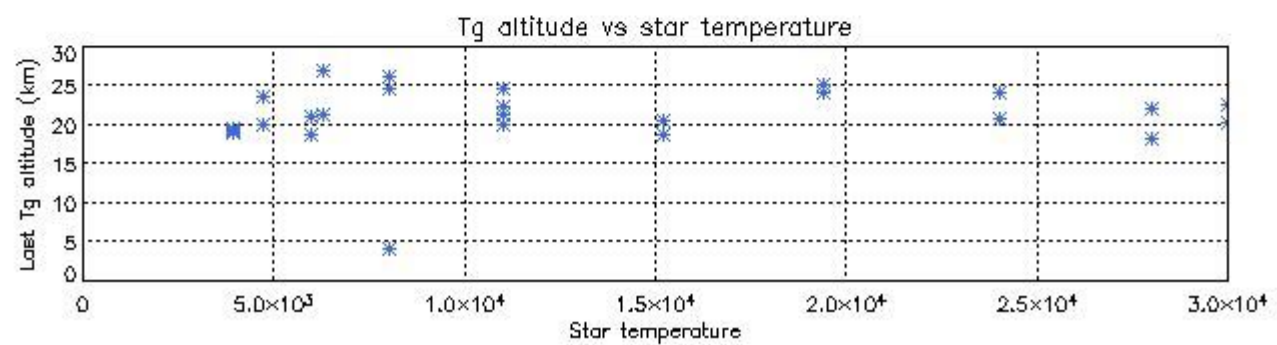
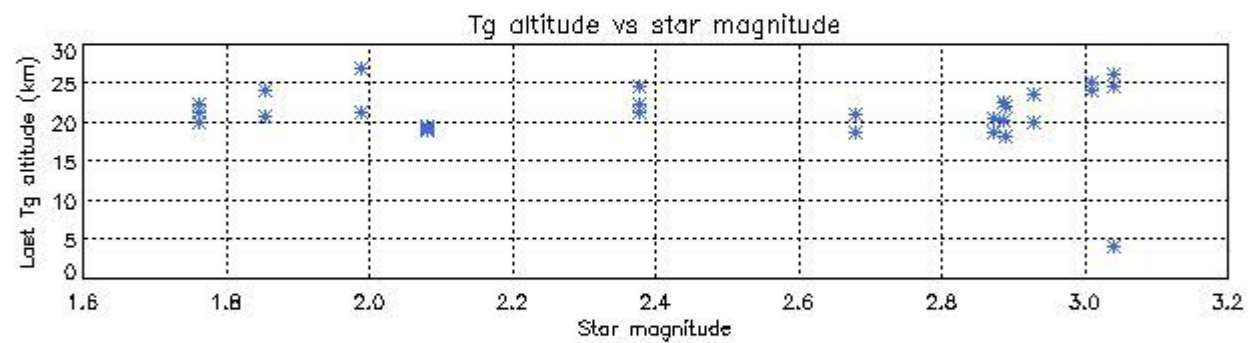
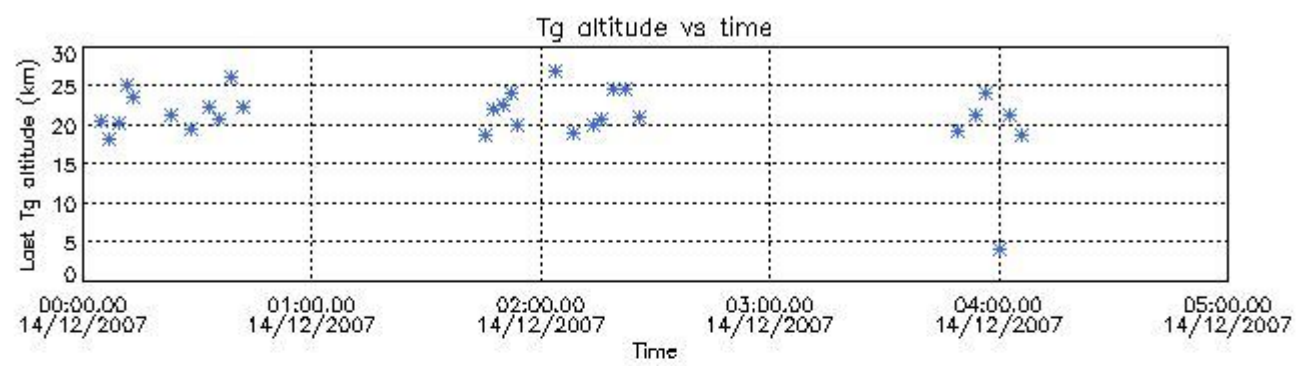
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



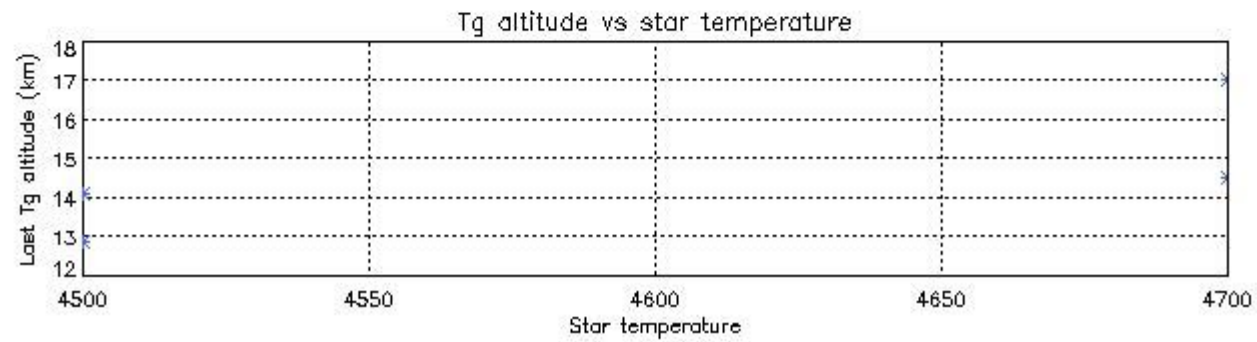
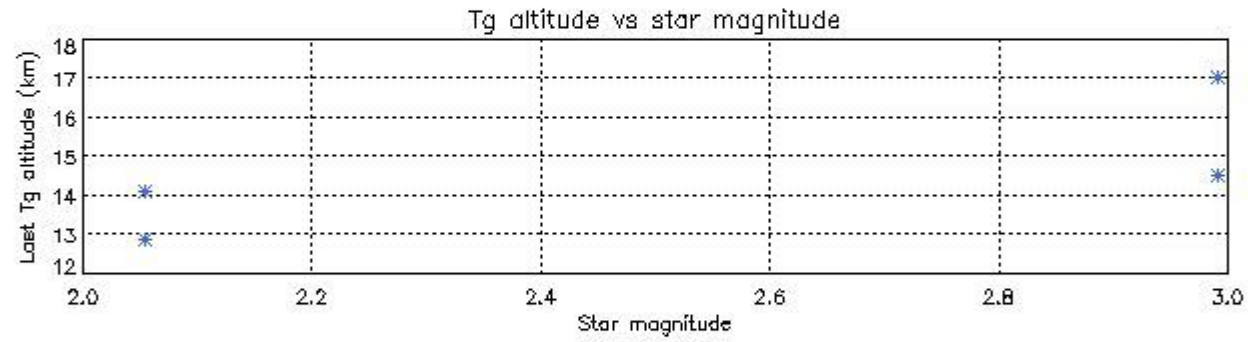
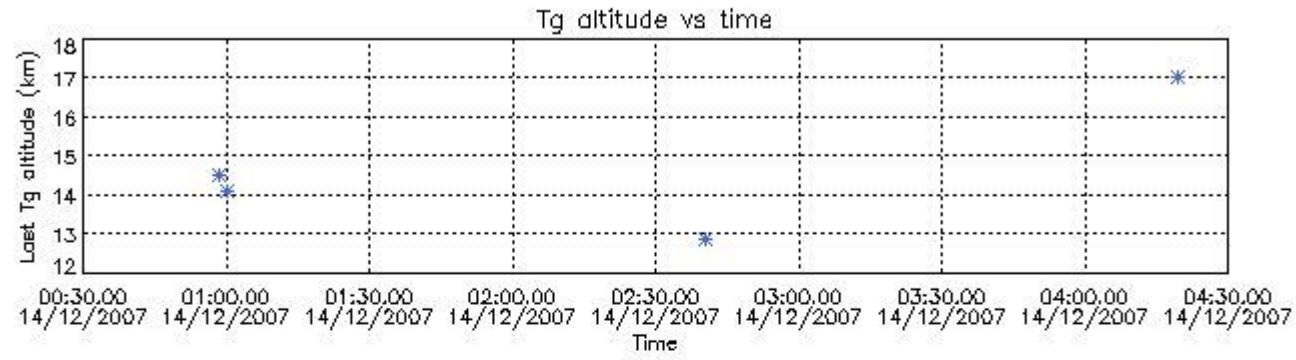
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

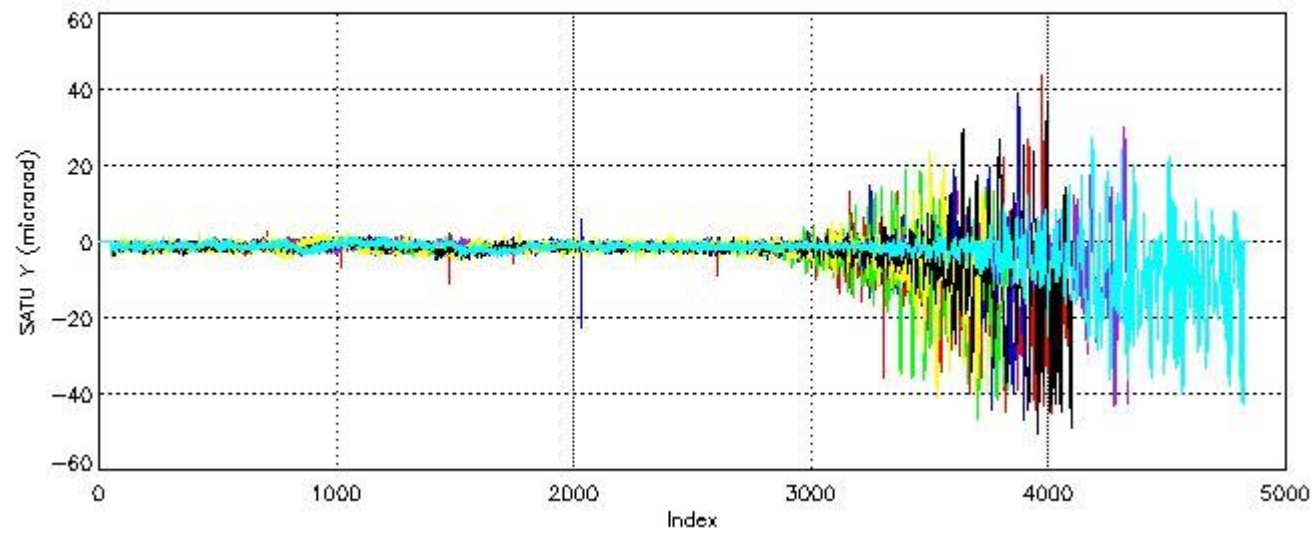
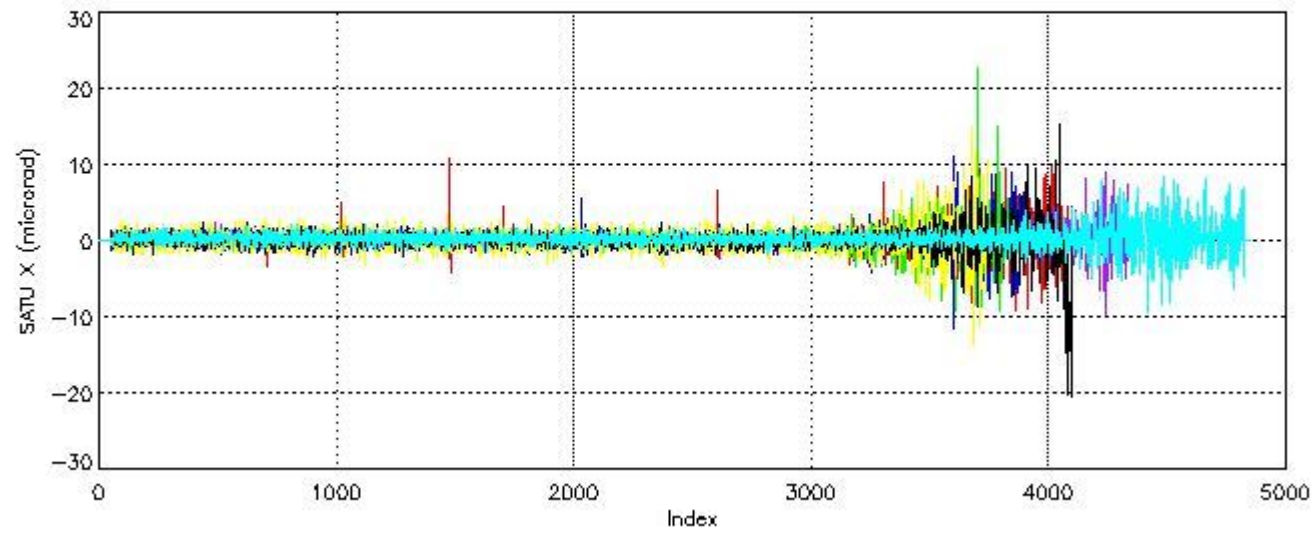


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17901	-1.2606	0.085613	-1.2448
St. deviation:	0.53364	0.77287	0.94287	1.3593
Maximum:	3.0000	2.0000	5.9000	5.2000
Minimum:	-2.4000	-4.6000	-5.7000	-7.8000

Number of data:	6600.0	6600.0	24600.	24600.
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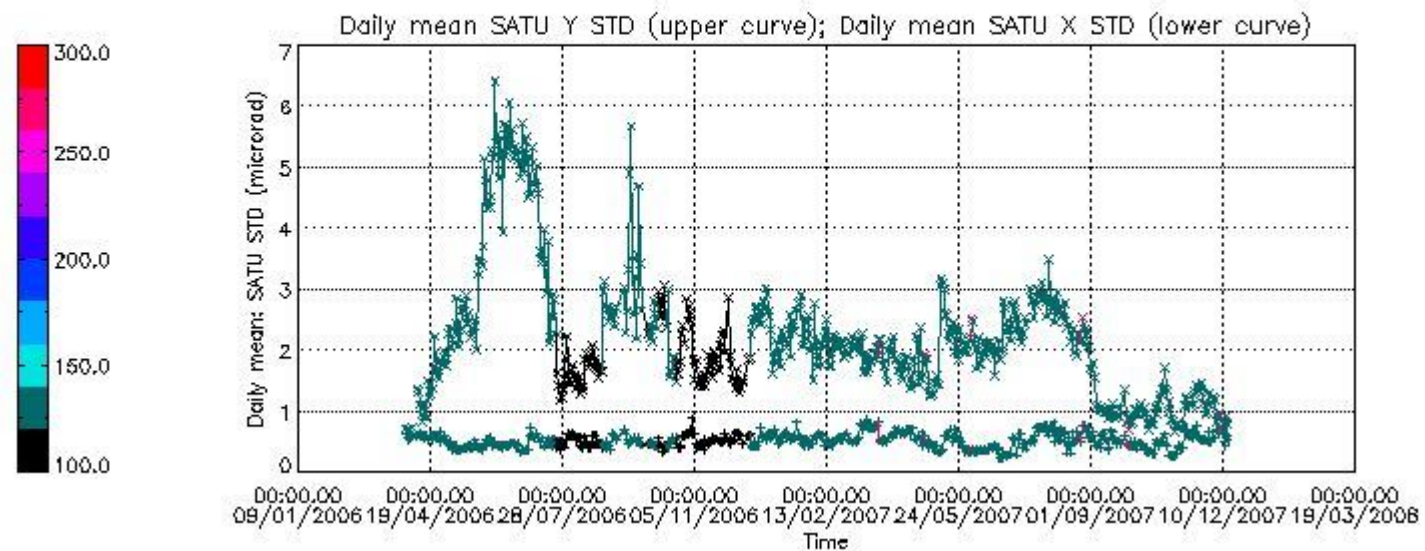
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

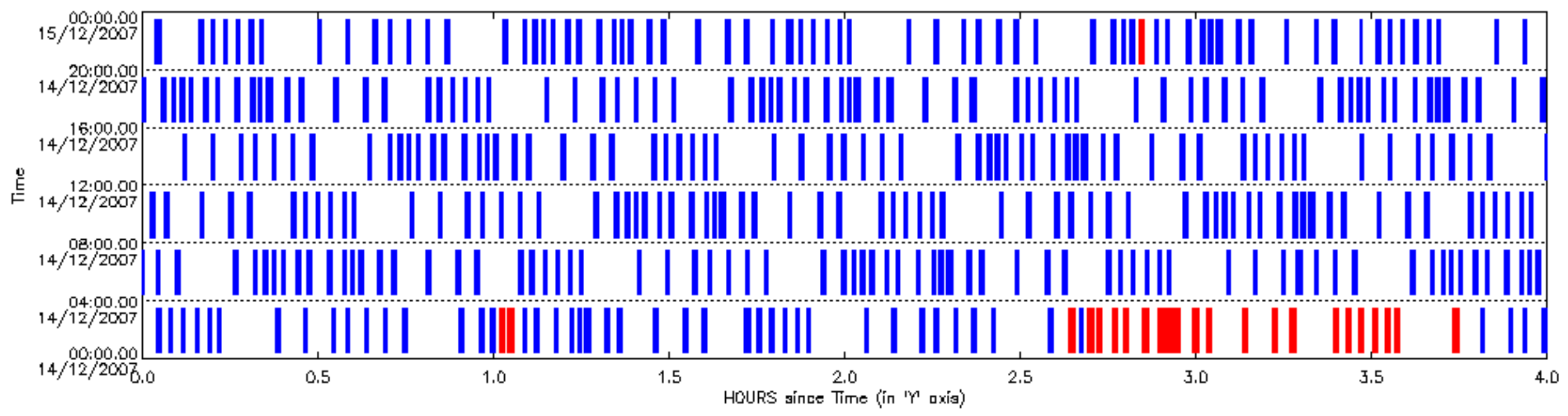
Lower curve: STD of SATU X axis

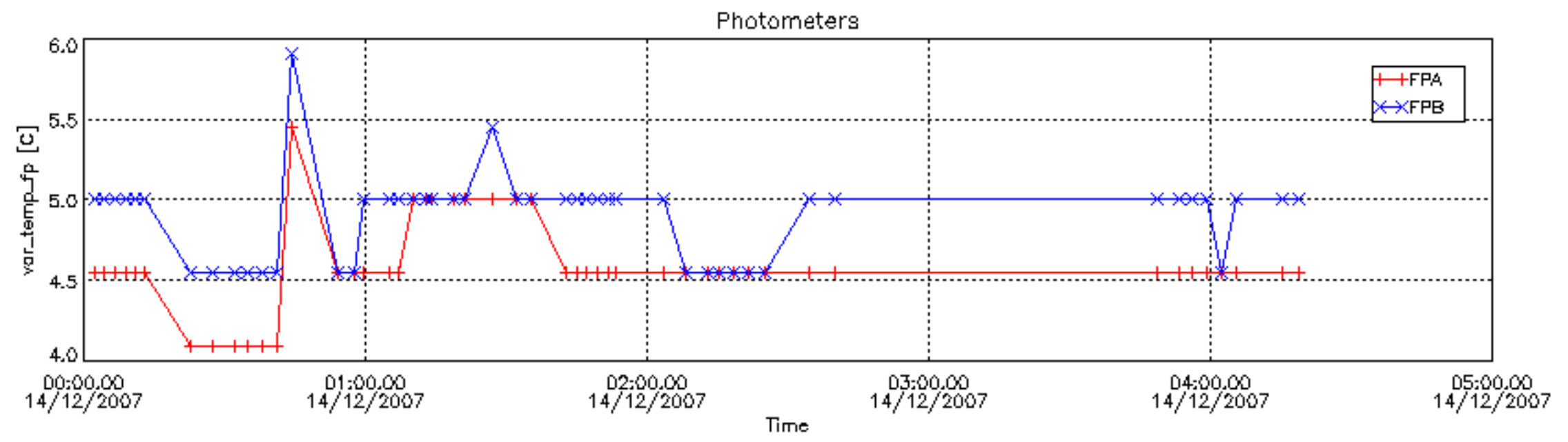
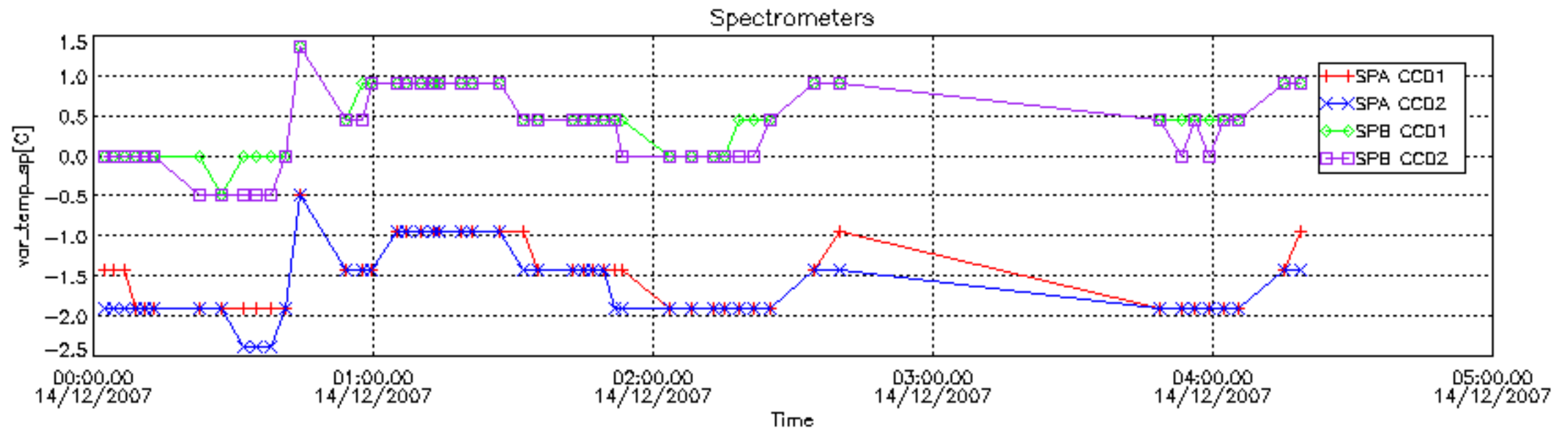


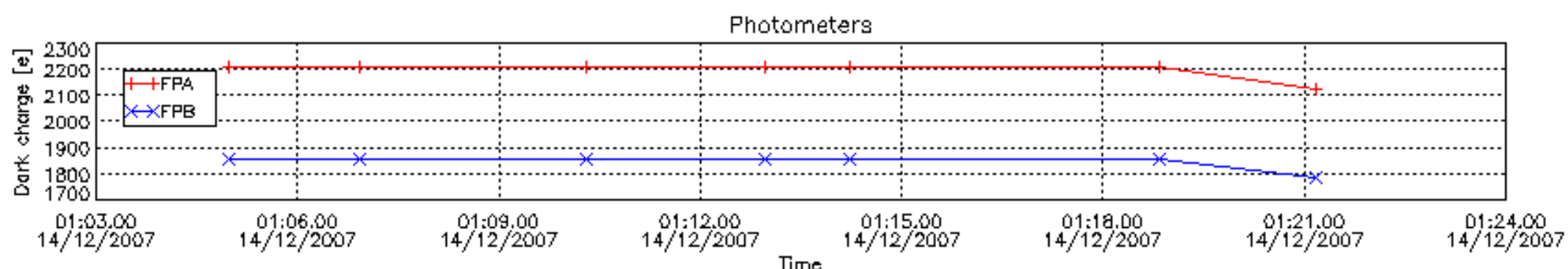
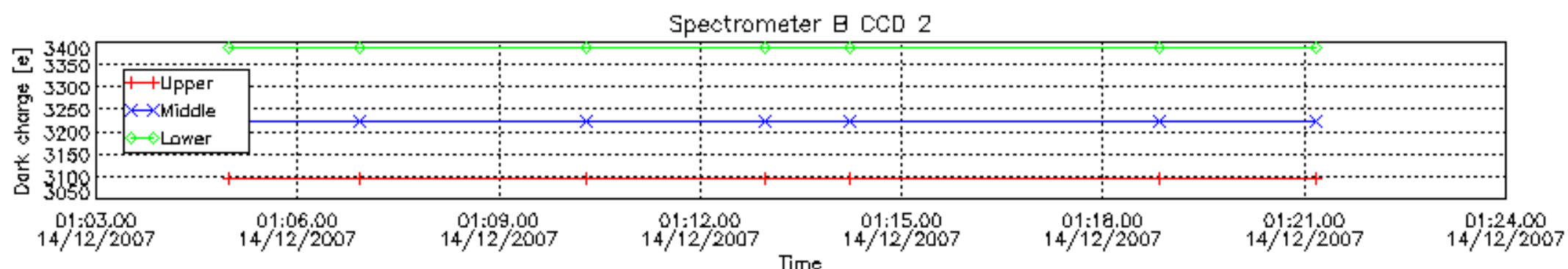
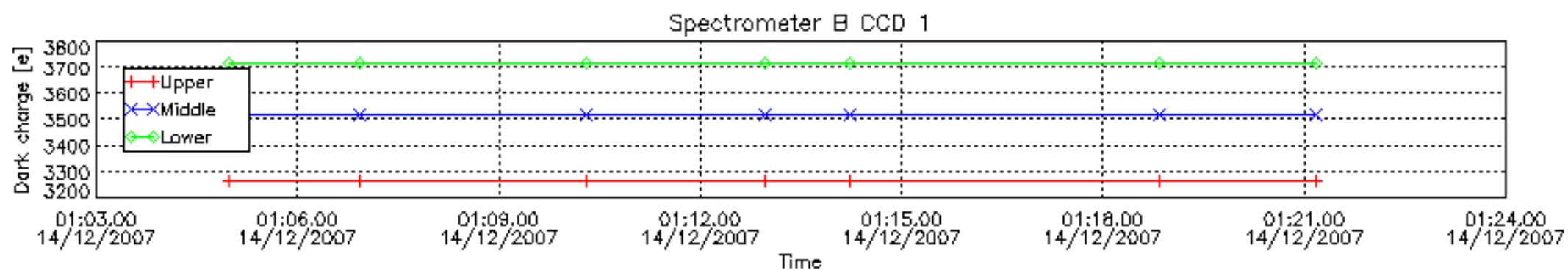
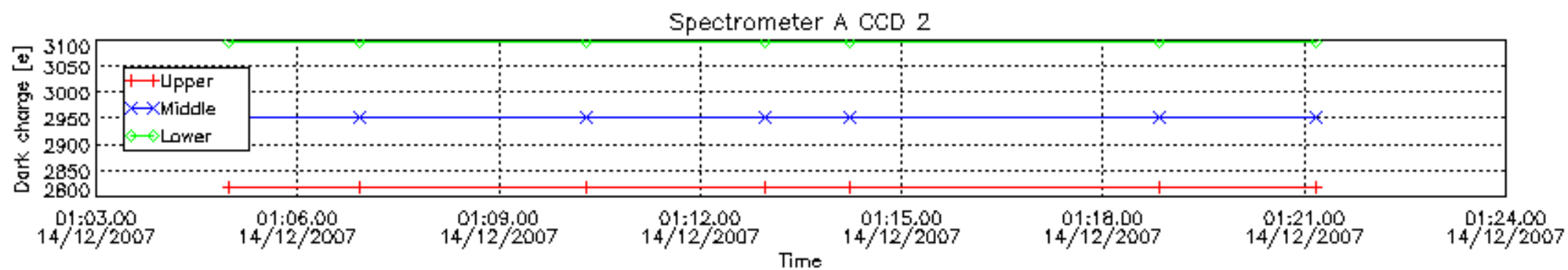
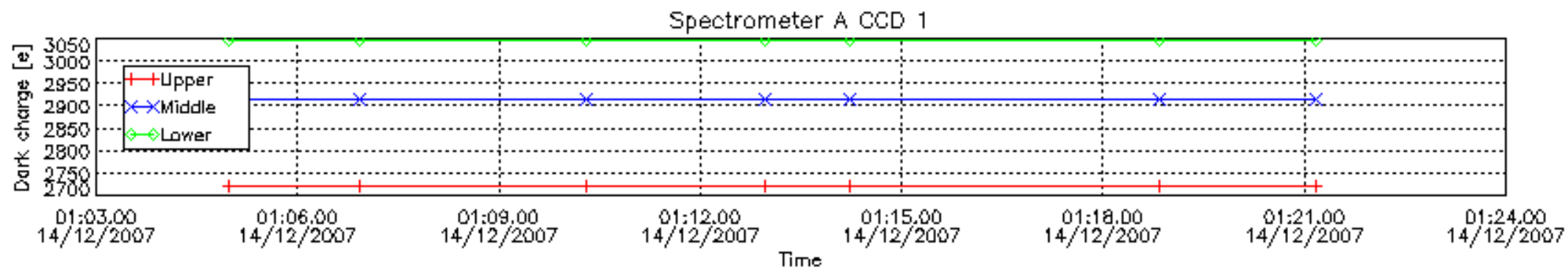
8. Auxiliary Data Files used for the production reported in section 2.4

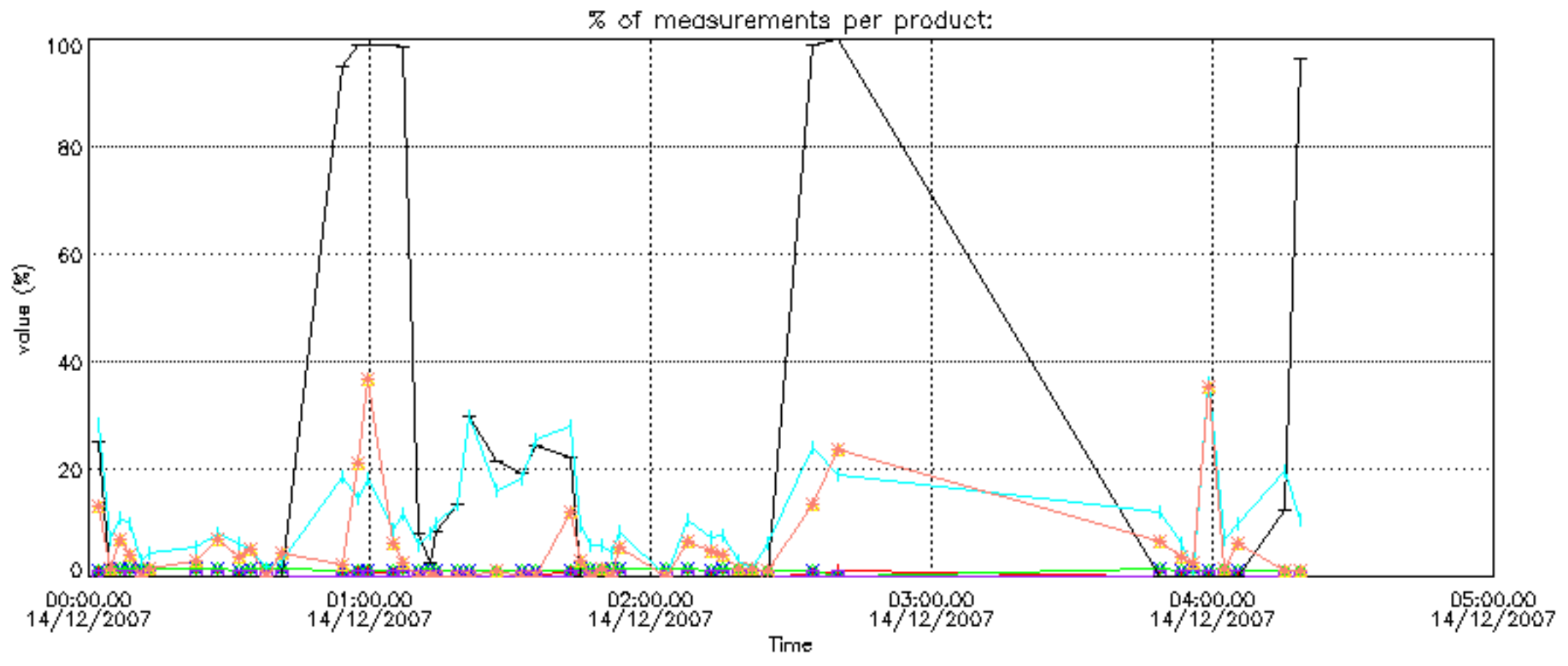
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071207_090506_20071205_000000_20100101_000000	1	14-DEC-2007 00:02:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-DEC-2007 00:02:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-DEC-2007 00:02:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-DEC-2007 00:02:16
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ECMWF_FILE	AUX_ECF_AXNECM20071213_180114_20071214_030000_20071214_150000	42	14-DEC-2007 03:48:40
OPTIONAL_ECMWF_FILE	MISSING	1	14-DEC-2007 00:02:16
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071213_230249_000060572064_00144_30258_4748.N1	13	14-DEC-2007 00:44:22
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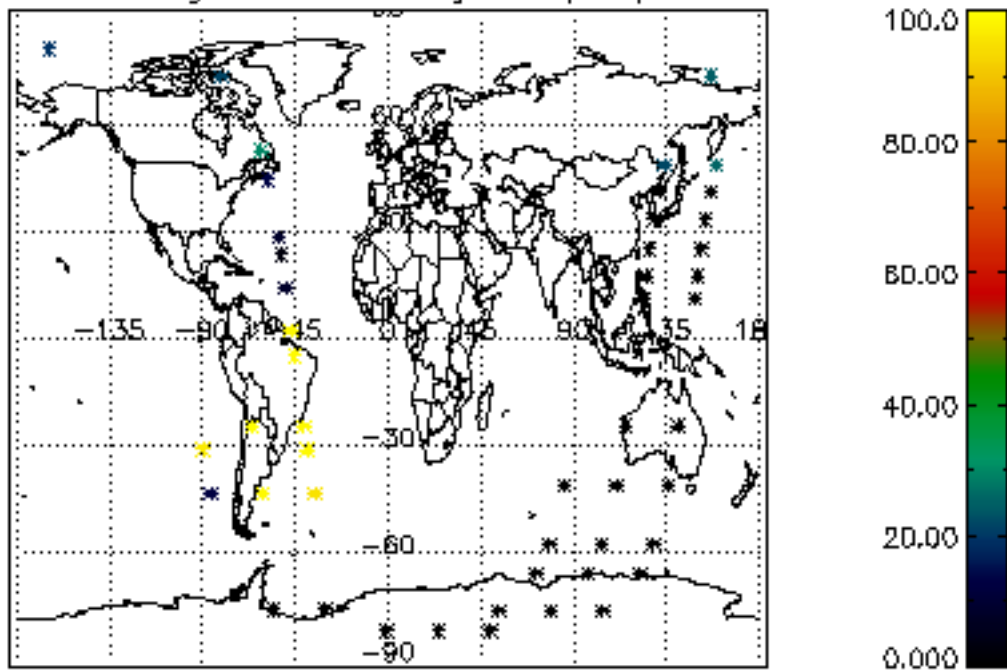




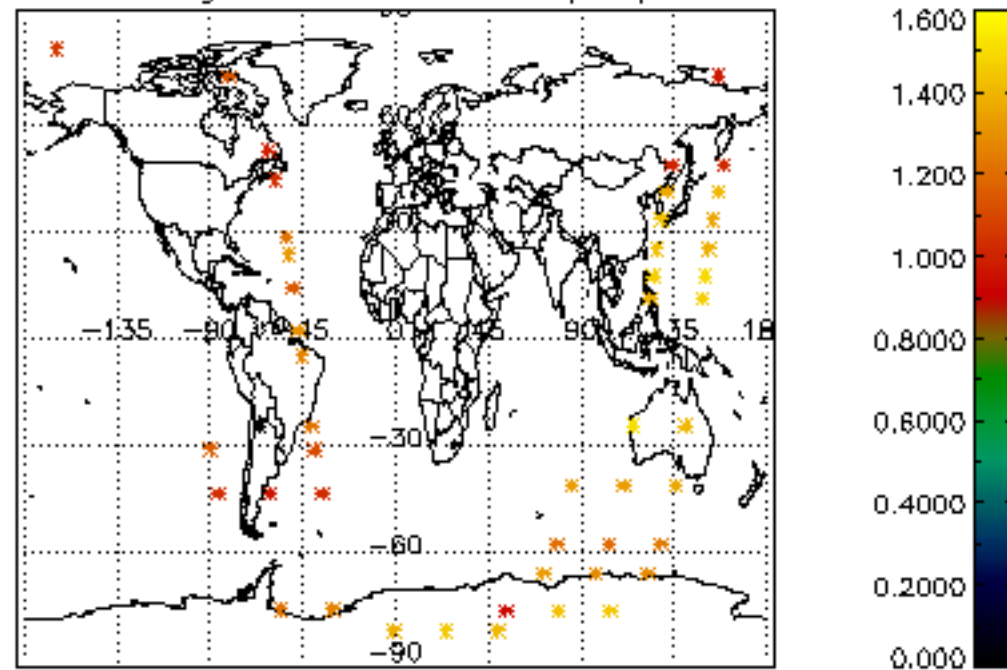




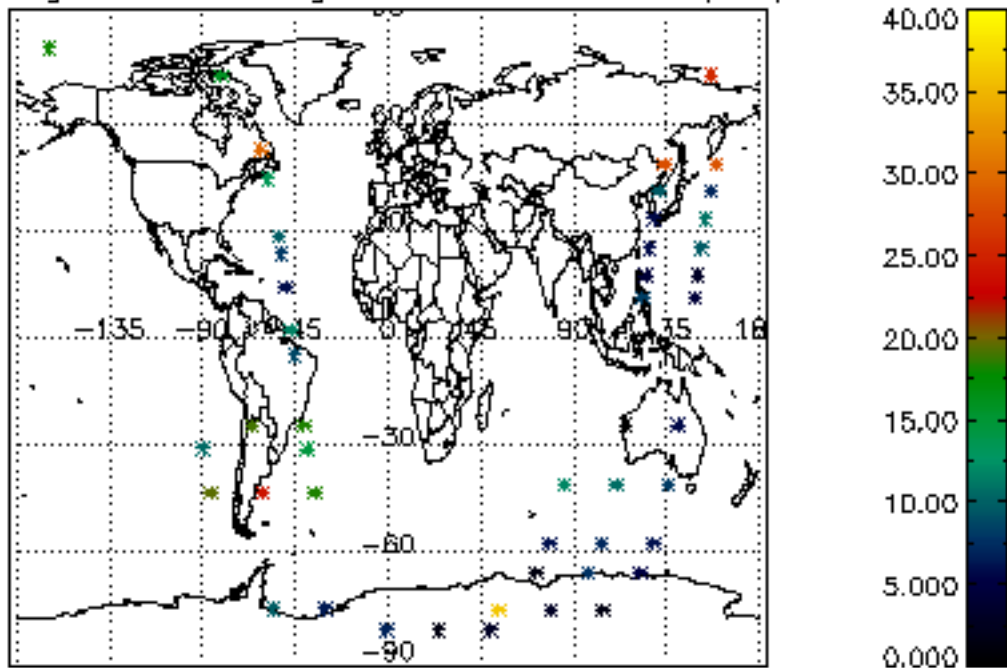
Percentage of cosmic ray hits per profile



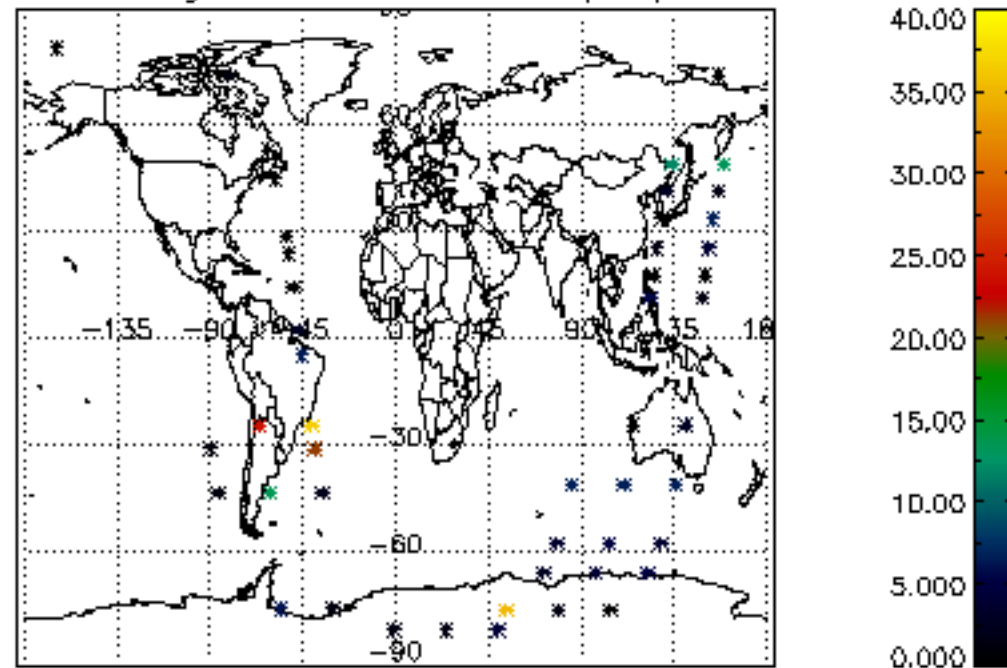
Percentage of datation errors per profile



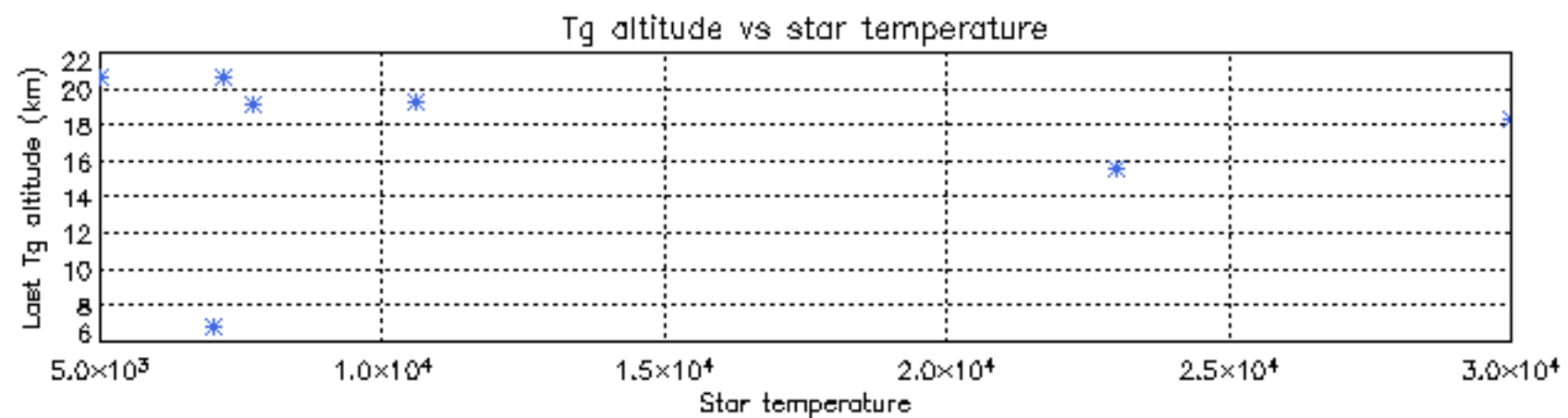
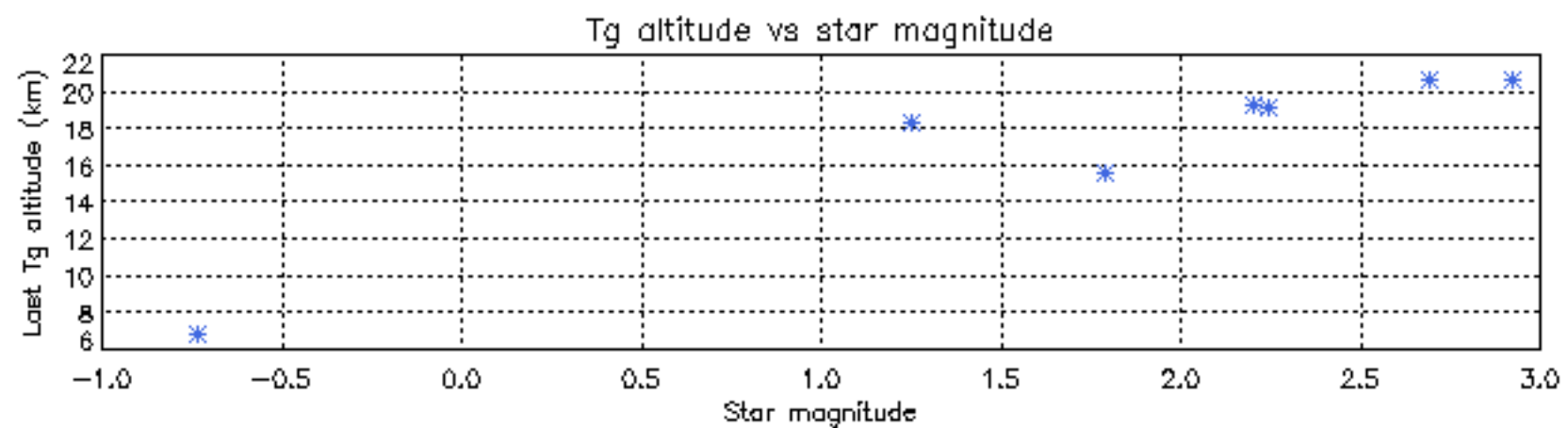
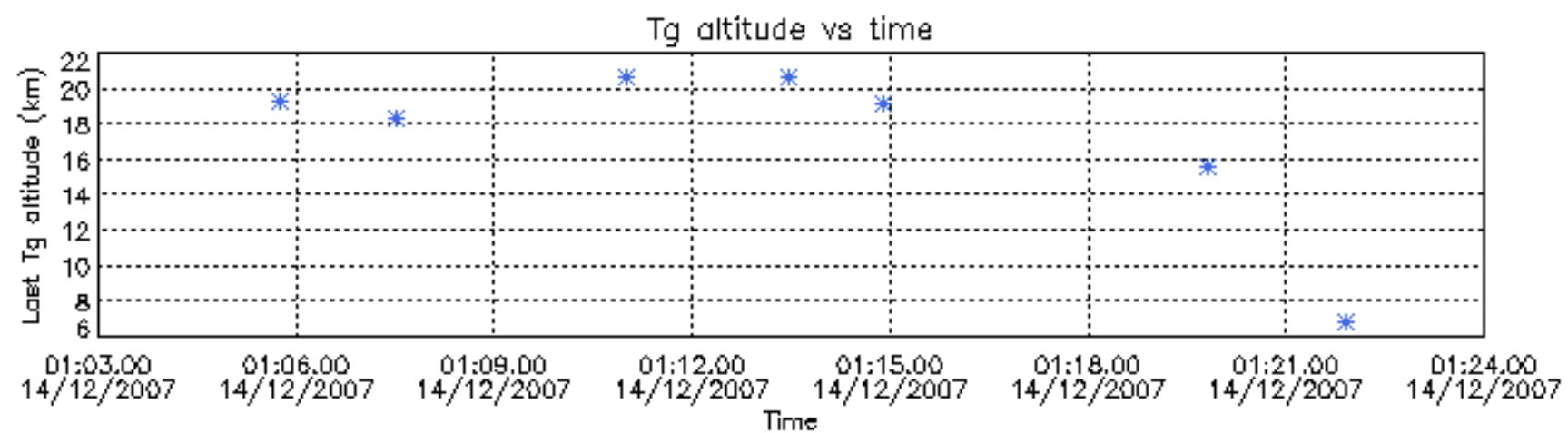
Percentage of star falling outside central band per profile



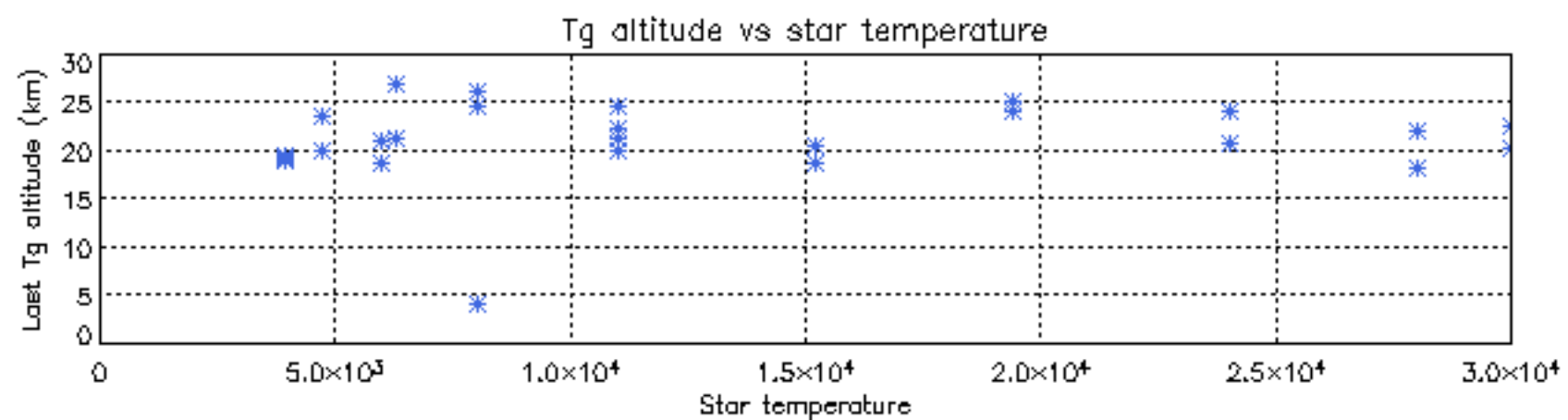
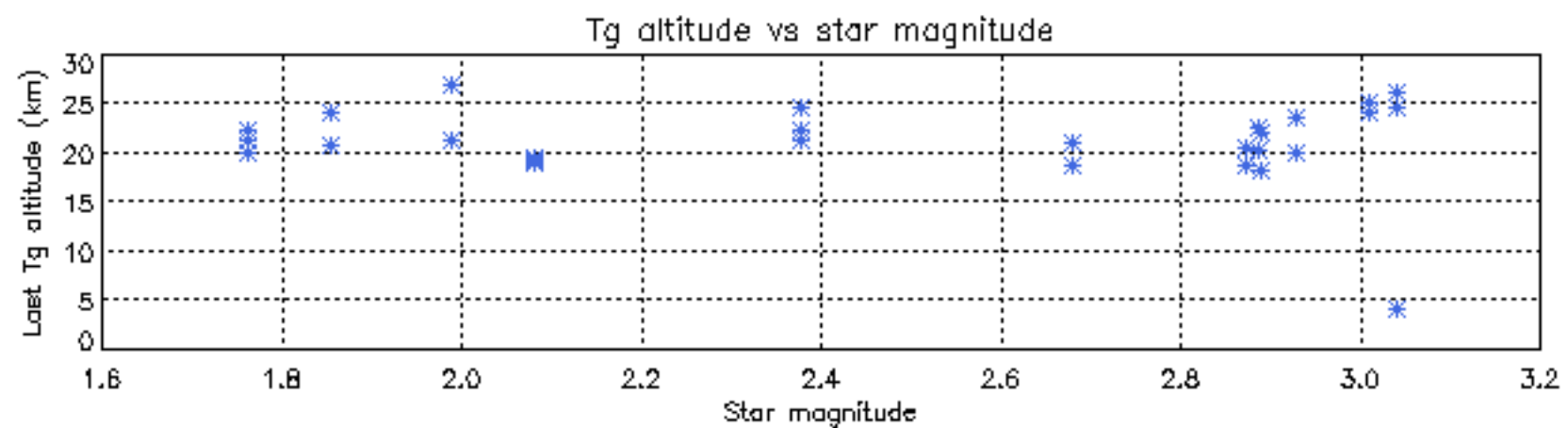
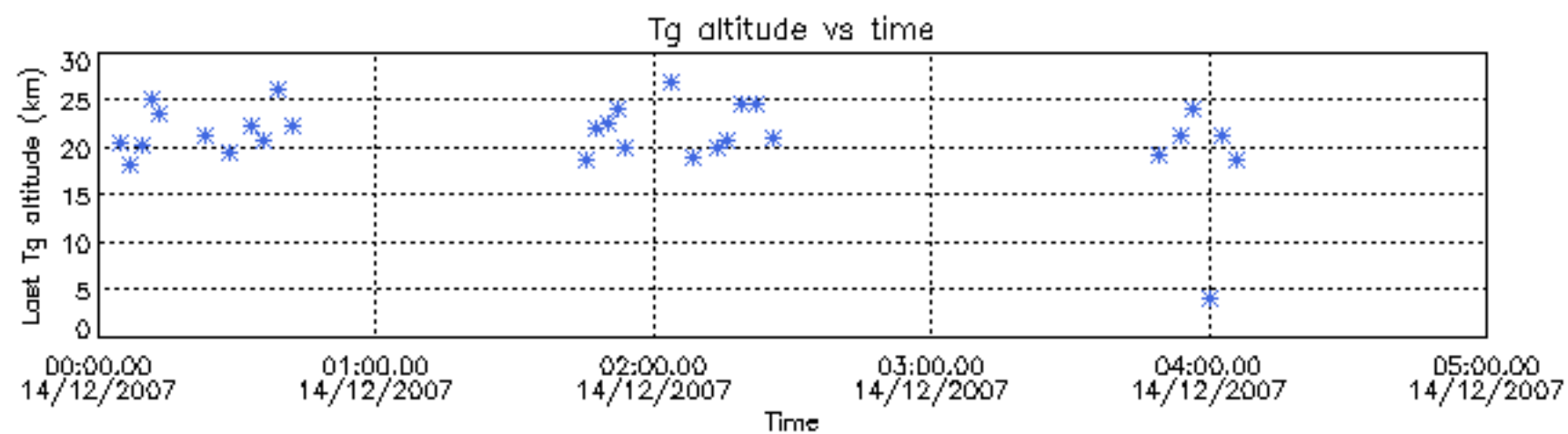
Percentage of saturation errors per profile



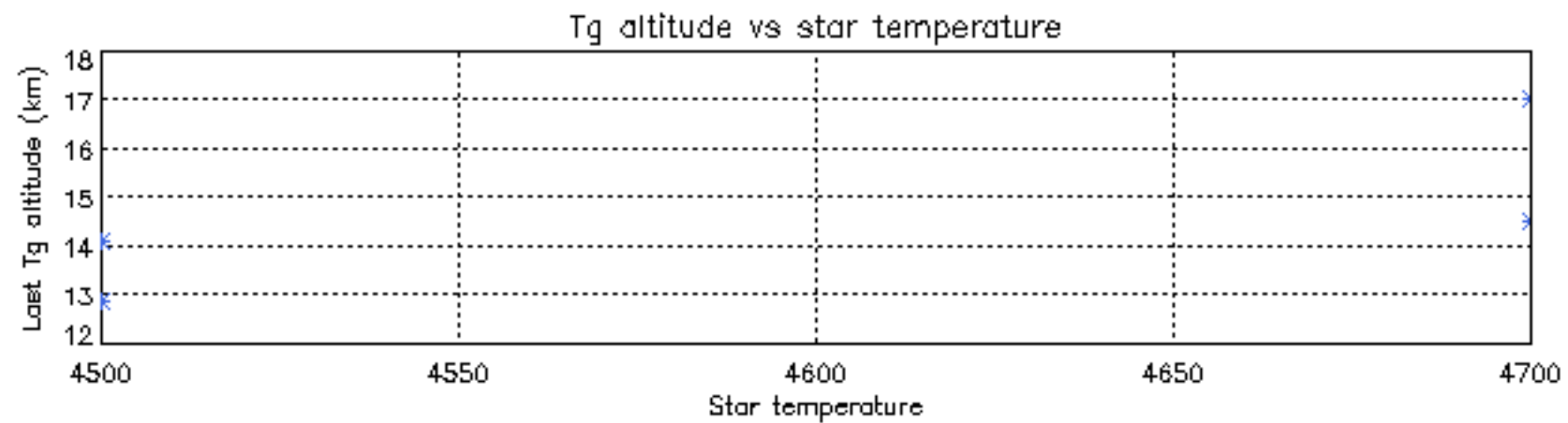
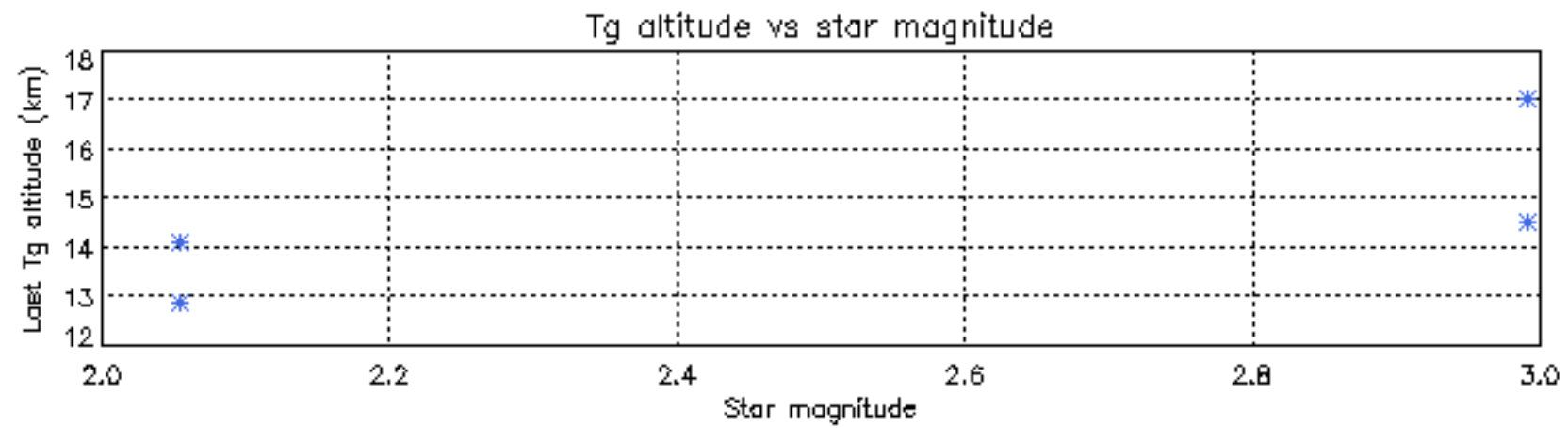
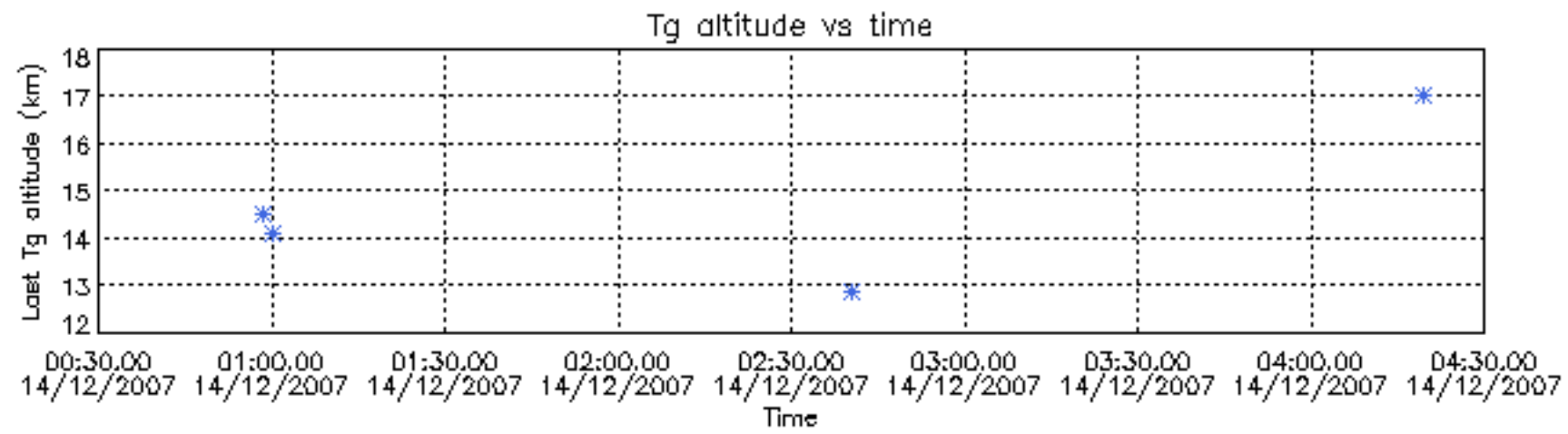
Tangent altitude at which the star is lost

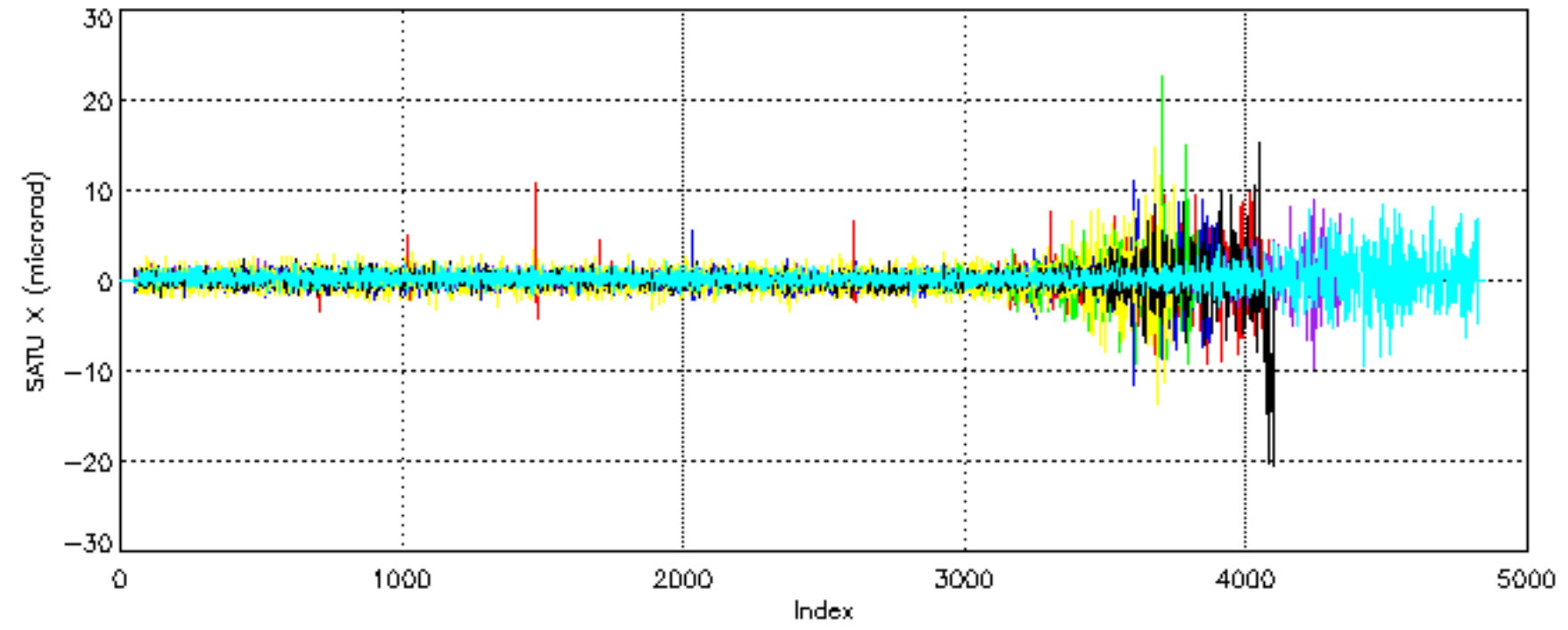


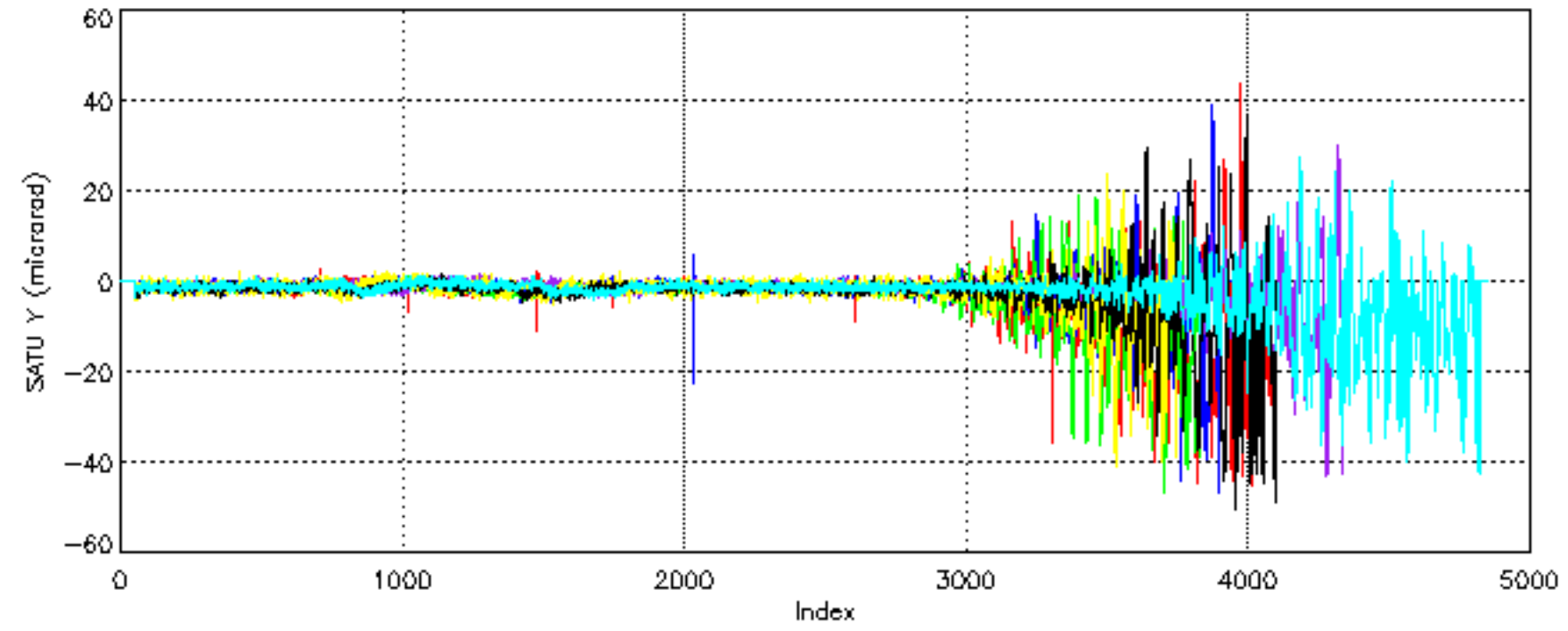
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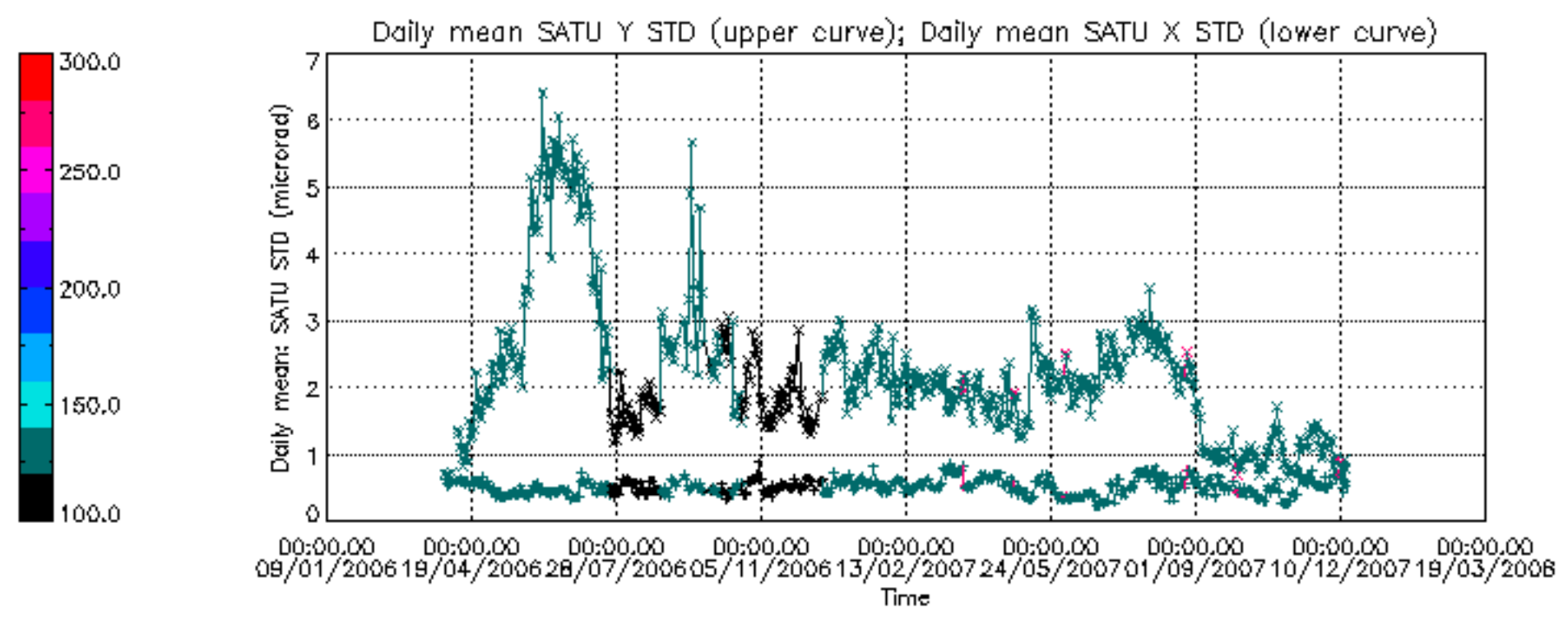


Tangent altitude at which the star is lost









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12; 4521.1; 12-DEC-2007 13:28:29; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30238
13; 4713.7; 12-DEC-2007 13:31:42; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30238
14; 5288.6; 12-DEC-2007 13:41:17; Dark ; 47.5; 15; 67Alp Vir ; 0.98; 28000;occ; 95; 0;30238
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16; 5613.7; 12-DEC-2007 13:46:42; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30238

17; 5696.3; 12-DEC-2007 13:48:04; Dark ; 39.5; 123; Iot Cen ; 2.75; 10200;occ; 79; 0;30238
 18; 5943.1; 12-DEC-2007 13:52:11; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;30238
 19; 6063.8; 12-DEC-2007 13:54:12; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;30238
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 22; 6572.0; 12-DEC-2007 14:02:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30238
 23; 6771.8; 12-DEC-2007 14:06:00; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;30238
 24; 6917.8; 12-DEC-2007 14:08:26; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;30238
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 8; 2720.4; 12-DEC-2007 16:19:40; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30240
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 21; 5944.3; 12-DEC-2007 17:13:24; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;30240
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 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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 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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 13; 4417.9; 30-DEC-2007 17:22:28; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30498
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 23; 6252.9; 30-DEC-2007 17:53:03; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30498
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8; 544.7; 01-JAN-2008 00:09:18; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30517
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10; 722.6; 01-JAN-2008 00:12:16; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;30517
11; 976.9; 01-JAN-2008 00:16:30; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;30517
12; 1319.4; 01-JAN-2008 00:22:13; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30517
13; 1568.5; 01-JAN-2008 00:26:22; Dark ; 42.0; 47; 2Bet CMa ; 1.98; 28000;occ; 84; 0;30517
14; 1768.8; 01-JAN-2008 00:29:42; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;30517
15; 1881.3; 01-JAN-2008 00:31:34; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;30517
16; 2033.4; 01-JAN-2008 00:34:07; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;30517
17; 2200.0; 01-JAN-2008 00:36:53; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30517
18; 2398.2; 01-JAN-2008 00:40:11; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30517
19; 2472.4; 01-JAN-2008 00:41:26; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30517
20; 2611.4; 01-JAN-2008 00:43:45; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30517
21; 2693.4; 01-JAN-2008 00:45:07; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30517
22; 3423.4; 01-JAN-2008 00:57:17; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30517
23; 3691.7; 01-JAN-2008 01:01:45; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30517
24; 3921.7; 01-JAN-2008 01:05:35; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30517
25; 4047.2; 01-JAN-2008 01:07:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30517
26; 4420.9; 01-JAN-2008 01:13:54; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30517
27; 4544.8; 01-JAN-2008 01:15:58; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30517
28; 4888.5; 01-JAN-2008 01:21:42; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30517
29; 5028.2; 01-JAN-2008 01:24:01; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30517
30; 5191.3; 01-JAN-2008 01:26:45; Bright; 54.5; 104; 27Bet Lib ; 2.61; 13100;occ; 109; 0;30517

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