

GOMOS Daily Report 22-NOV-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	23NOV2007 05:59:30
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (22NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (23NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

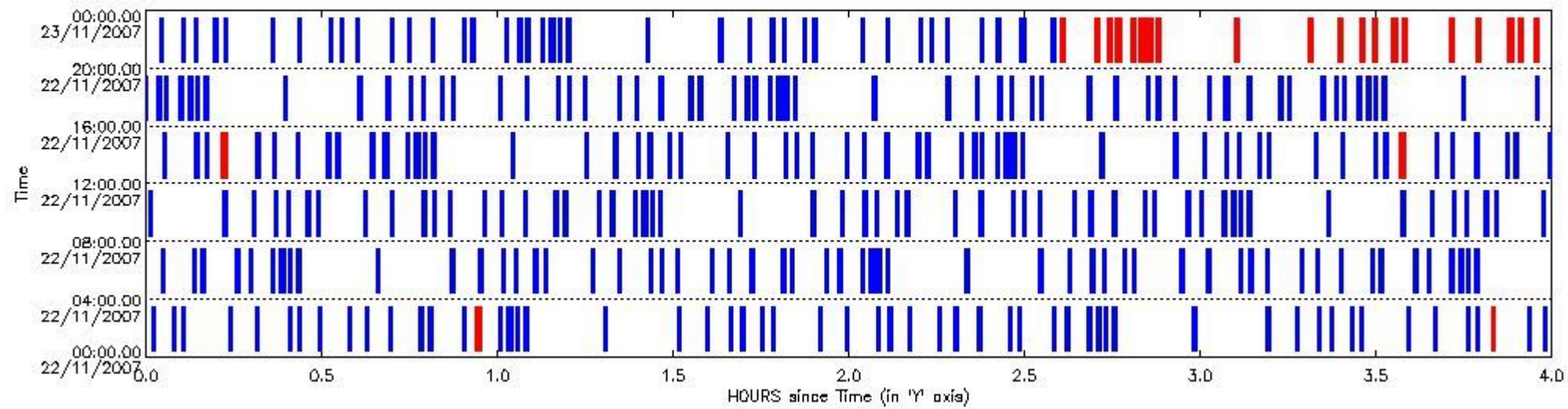
2.1 Level 0 products arrived in PCF (see template [here](#))

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
22-NOV-2007 00:56:14	GamCru	26	29944
22-NOV-2007 03:49:49	27GamBoo	180	29946
22-NOV-2007 12:12:50	27GamBoo	180	29951
22-NOV-2007 15:34:02	27GamBoo	180	29953
22-NOV-2007 22:36:01	2EpsCrv	171	29957
22-NOV-2007 22:41:50	GamCen	64	29957
22-NOV-2007 22:44:04	GamCru	26	29957
22-NOV-2007 22:45:26	MuVel	113	29957
22-NOV-2007 22:48:00	TheCar	124	29958
22-NOV-2007 22:49:24	DSA1029	0	29958
22-NOV-2007 22:50:51	BetCar	29	29958
22-NOV-2007 22:52:17	EpsCar	41	29958
22-NOV-2007 23:05:50	The1Eri	157	29958
22-NOV-2007 23:18:22	92AlpCet	94	29958
22-NOV-2007 23:23:24	6BetAri	105	29958

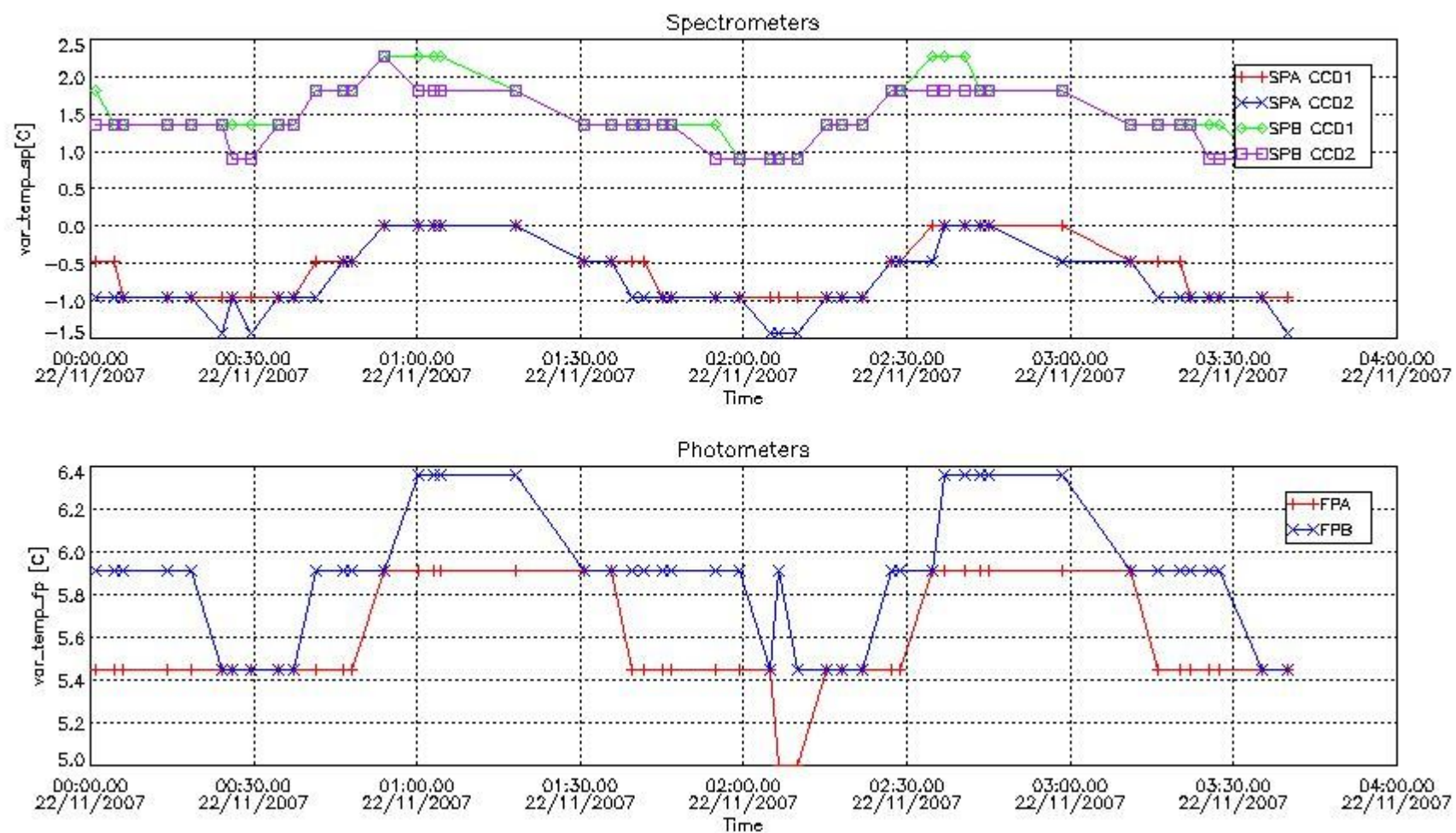
22-NOV-2007 23:27:14	4BetTri	173	29958
22-NOV-2007 23:29:18	57Gam1And	73	29958
22-NOV-2007 23:32:41	23GamPer	160	29958
22-NOV-2007 23:34:27	37DelCas	110	29958
22-NOV-2007 23:42:31	1AlpUMi	49	29958
22-NOV-2007 23:47:02	7BetUMi	60	29958
22-NOV-2007 23:52:30	77EpsUMa	32	29958
22-NOV-2007 23:54:20	85EtaUMa	39	29958
22-NOV-2007 23:57:03	27GamBoo	180	29958

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_1PNPDE20071122_000055_000000372063_00331_29944_7012.N1	22-NOV-2007 00:00:55	Bright	36.500	73	57Gam1And	2.2600	13100.	73	29944	No
2	GOM_TRA_1PNPDE20071122_000421_000000372063_00331_29944_7013.N1	22-NOV-2007 00:04:21	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	29944	No
3	GOM_TRA_1PNPDE20071122_000604_000000332063_00331_29944_7014.N1	22-NOV-2007 00:06:04	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	29944	No
4	GOM_TRA_1PNPDE20071122_001408_000000342063_00331_29944_7015.N1	22-NOV-2007 00:14:08	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29944	No
5	GOM_TRA_1PNPDE20071122_001839_000000362063_00331_29944_7016.N1	22-NOV-2007 00:18:39	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29944	No
6	GOM_TRA_1PNPDE20071122_002408_000000392063_00331_29944_7017.N1	22-NOV-2007 00:24:08	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	29944	No
7	GOM_TRA_1PNPDE20071122_002556_000000342063_00331_29944_7018.N1	22-NOV-2007 00:25:56	Bright	33.500	39	85Eta UMa	1.8540	24000.	67	29944	No
8	GOM_TRA_1PNPDE20071122_002924_000000362063_00331_29944_7019.N1	22-NOV-2007 00:29:24	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	29944	No
9	GOM_TRA_1PNPDE20071122_003433_000000332063_00331_29944_7020.N1	22-NOV-2007 00:34:33	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29944	No
10	GOM_TRA_1PNPDE20071122_003722_000000352063_00331_29944_7021.N1	22-NOV-2007 00:37:22	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	29944	No
11	GOM_TRA_1PNPDE20071122_004120_000000392063_00331_29944_7022.N1	22-NOV-2007 00:41:20	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	29944	No
12	GOM_TRA_1PNPDE20071122_004634_000000422063_00331_29944_7151.N1	22-NOV-2007 00:46:34	Twilight	41.500	100	4Gam Crv	2.5800	13100.	83	29944	No
13	GOM_TRA_1PNPDE20071122_004807_000000452063_00331_29944_7152.N1	22-NOV-2007 00:48:07	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	29944	No
14	GOM_TRA_1PNPDE20071122_005359_000000362063_00331_29944_7153.N1	22-NOV-2007 00:53:59	Dark	35.500	64	Gam Cen	2.2000	10600.	71	29944	No
15	GOM_TRA_1PNPDE20071122_010008_000000362063_00332_29945_7154.N1	22-NOV-2007 01:00:08	Dark	35.500	124	The Car	2.7640	30000.	71	29945	No
16	GOM_TRA_1PNPDE20071122_010300_000000382063_00332_29945_7155.N1	22-NOV-2007 01:03:00	Dark	38.000	29	Bet Car	1.6720	10200.	76	29945	No
17	GOM_TRA_1PNPDE20071122_010422_000000462063_00332_29945_7156.N1	22-NOV-2007 01:04:22	Dark	45.500	41	Eps Car	1.8600	4100.0	91	29945	No
18	GOM_TRA_1PNPDE20071122_011801_000000372063_00332_29945_7157.N1	22-NOV-2007 01:18:01	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	29945	No
19	GOM_TRA_1PNPDE20071122_013035_000000442063_00332_29945_7158.N1	22-NOV-2007 01:30:35	Twilight	43.500	94	92Alp Cet	2.5260	3100.0	87	29945	No
20	GOM_TRA_1PNPDE20071122_013536_000000352063_00332_29945_7159.N1	22-NOV-2007 01:35:36	Bright	35.000	105	6Bet Ari	2.6450	8900.0	70	29945	No
21	GOM_TRA_1PNPDE20071122_013926_000000362063_00332_29945_7160.N1	22-NOV-2007 01:39:26	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29945	No
22	GOM_TRA_1PNPDE20071122_014130_000000372063_00332_29945_7161.N1	22-NOV-2007 01:41:30	Bright	36.500	73	57Gam1And	2.2600	13100.	73	29945	No
23	GOM_TRA_1PNPDE20071122_014457_000000382063_00332_29945_7162.N1	22-NOV-2007 01:44:57	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	29945	No
24	GOM_TRA_1PNPDE20071122_014640_000000352063_00332_29945_7163.N1	22-NOV-2007 01:46:40	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	29945	No
25	GOM_TRA_1PNPDE20071122_015444_000000362063_00332_29945_7164.N1	22-NOV-2007 01:54:44	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29945	No
26	GOM_TRA_1PNPDE20071122_015915_000000372063_00332_29945_7165.N1	22-NOV-2007 01:59:15	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29945	No
27	GOM_TRA_1PNPDE20071122_020444_000000382063_00332_29945_7166.N1	22-NOV-2007 02:04:44	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	29945	No
28	GOM_TRA_1PNPDE20071122_020632_000000522063_00332_29945_7167.N1	22-NOV-2007 02:06:32	Bright	52.000	39	85Eta UMa	1.8540	24000.	104	29945	No
29	GOM_TRA_1PNPDE20071122_021000_000000352063_00332_29945_7168.N1	22-NOV-2007 02:10:00	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	29945	No
30	GOM_TRA_1PNPDE20071122_021509_000000332063_00332_29945_7169.N1	22-NOV-2007 02:15:09	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29945	No
31	GOM_TRA_1PNPDE20071122_021758_000000362063_00332_29945_7170.N1	22-NOV-2007 02:17:58	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	29945	No
32	GOM_TRA_1PNPDE20071122_022156_000000402063_00332_29945_7300.N1	22-NOV-2007 02:21:56	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	29945	No
33	GOM_TRA_1PNPDE20071122_022711_000000432063_00332_29945_7301.N1	22-NOV-2007 02:27:11	Twilight	42.500	100	4Gam Crv	2.5800	13100.	85	29945	No
34	GOM_TRA_1PNPDE20071122_022844_000000462063_00332_29945_7302.N1	22-NOV-2007 02:28:44	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	29945	No
35	GOM_TRA_1PNPDE20071122_023436_000000402063_00332_29945_7303.N1	22-NOV-2007 02:34:36	Dark	40.000	64	Gam Cen	2.2000	10600.	80	29945	No
36	GOM_TRA_1PNPDE20071122_023650_000000462063_00332_29945_7304.N1	22-NOV-2007 02:36:50	Dark	45.500	26	Gam Cru	1.6240	2900.0	91	29945	No
37	GOM_TRA_1PNPDE20071122_024044_000000372063_00333_29946_7305.N1	22-NOV-2007 02:40:44	Dark	36.500	124	The Car	2.7640	30000.	73	29946	No
38	GOM_TRA_1PNPDE20071122_024336_000000392063_00333_29946_7306.N1	22-NOV-2007 02:43:36	Dark	38.500	29	Bet Car	1.6720	10200.	77	29946	No
39	GOM_TRA_1PNPDE20071122_024459_000000442063_00333_29946_7307.N1	22-NOV-2007 02:44:59	Dark	44.000	41	Eps Car	1.8600	4100.0	88	29946	No
40	GOM_TRA_1PNPDE20071122_025837_000000382063_00333_29946_7308.N1	22-NOV-2007 02:58:37	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	29946	No
41	GOM_TRA_1PNPDE20071122_031111_000000412063_00333_29946_7309.N1	22-NOV-2007 03:11:11	Twilight	41.000	94	92Alp Cet	2.5260	3100.0	82	29946	No
42	GOM_TRA_1PNPDE20071122_031612_000000362063_00333_29946_7310.N1	22-NOV-2007 03:16:12	Bright	35.500	105	6Bet Ari	2.6450	8900.0	71	29946	No
43	GOM_TRA_1PNPDE20071122_032002_000000352063_00333_29946_7311.N1	22-NOV-2007 03:20:02	Bright	34.500	173	4Bet Tri	3.0040	8900.0	69	29946	No
44	GOM_TRA_1PNPDE20071122_032206_000000382063_00333_29946_7312.N1	22-NOV-2007 03:22:06	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29946	No
45	GOM_TRA_1PNPDE20071122_032532_000000372063_00333_29946_7313.N1	22-NOV-2007 03:25:32	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	29946	No

46	GOM_TRA_1PNPDE20071122_032716_000000342063_00333_29946_7314.N1	22-NOV-2007 03:27:16	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	29946	No
47	GOM_TRA_1PNPDE20071122_033520_000000362063_00333_29946_7315.N1	22-NOV-2007 03:35:20	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29946	No
48	GOM_TRA_1PNPDE20071122_033951_000000332063_00333_29946_7454.N1	22-NOV-2007 03:39:51	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	29946	No

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



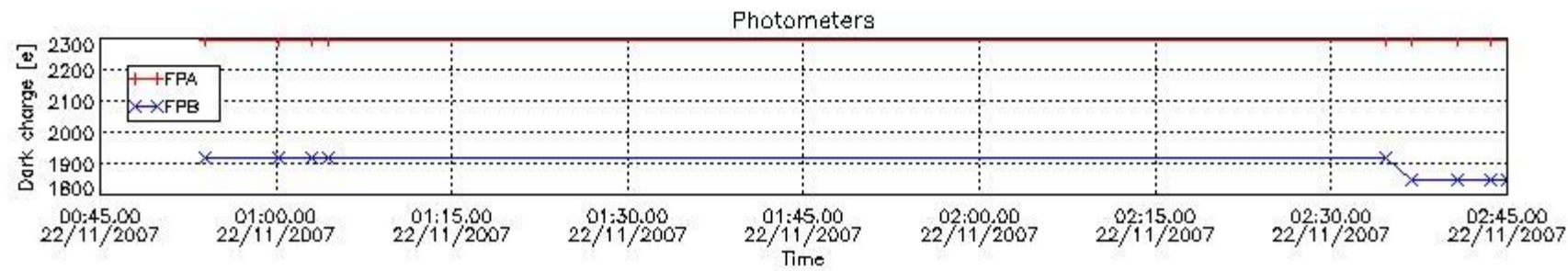
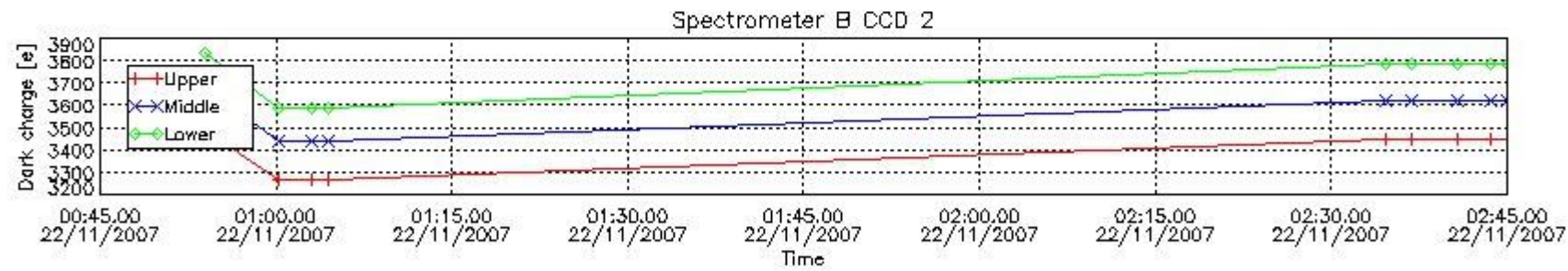
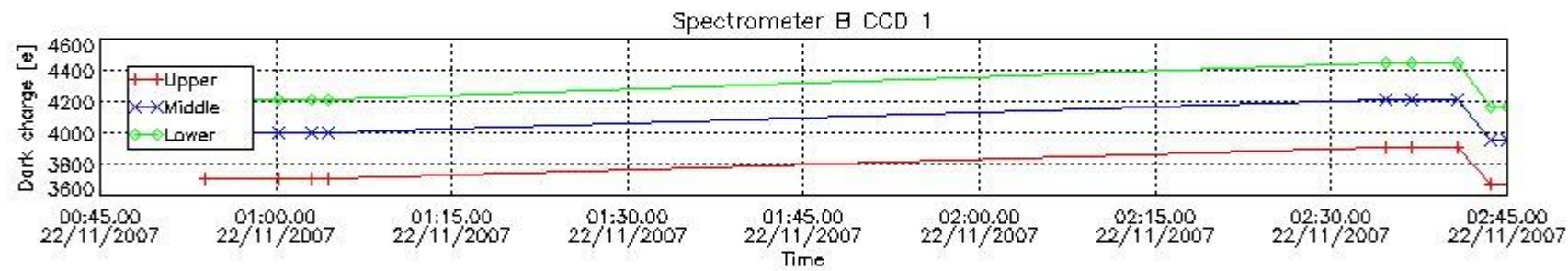
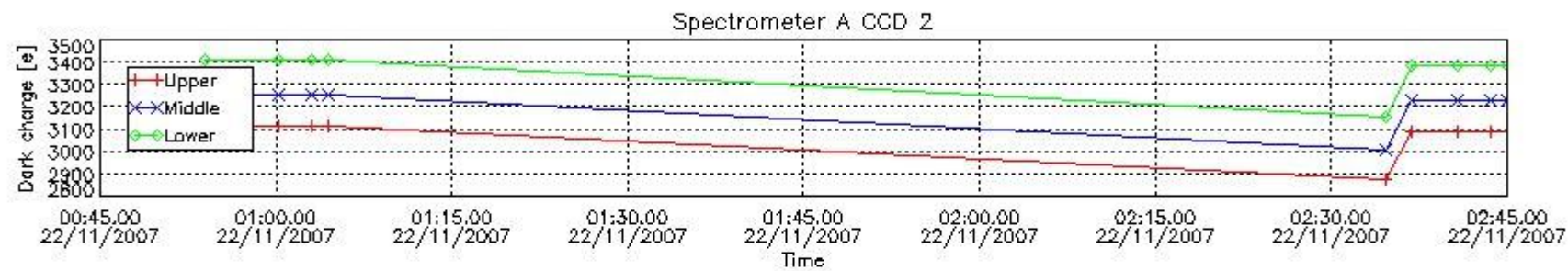
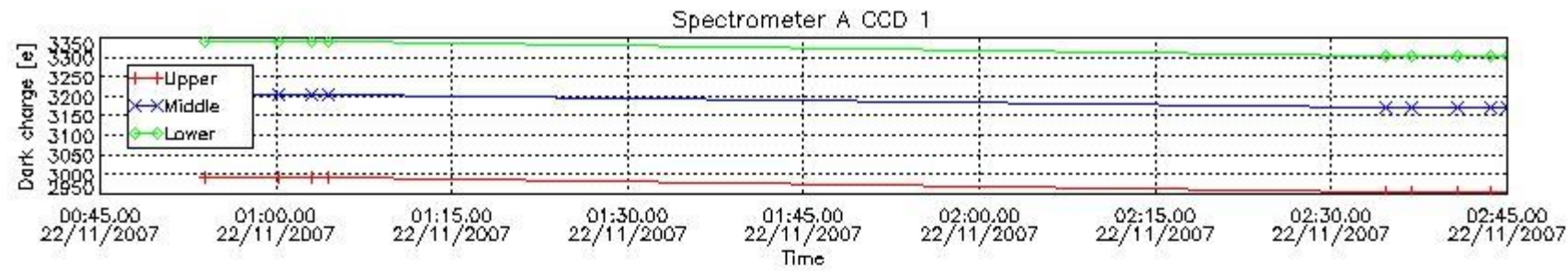
4. Overview of dark signal processing per product

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



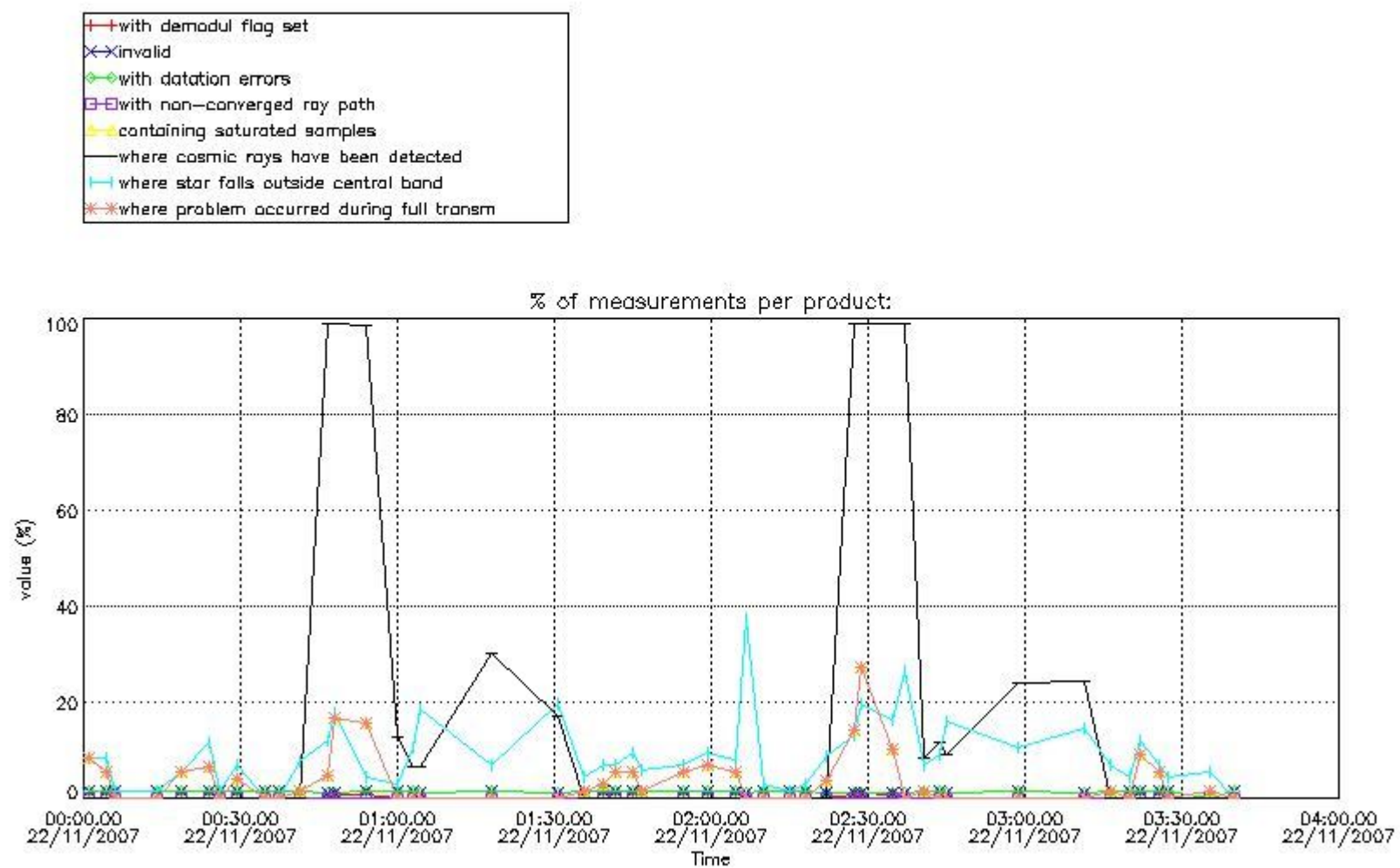
5. Demodulation flag and quality information monitoring

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.

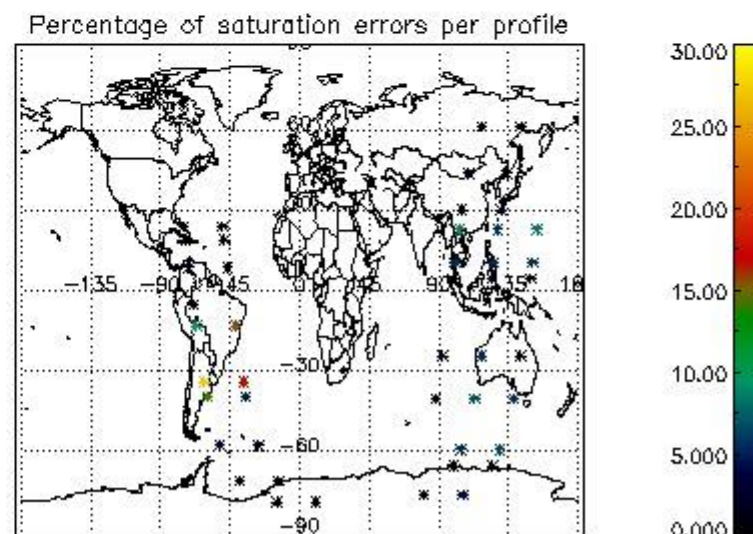
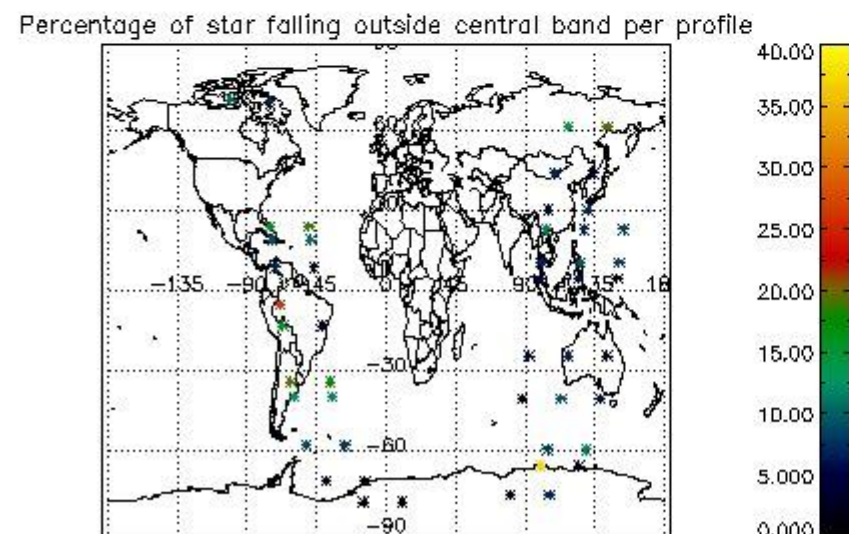
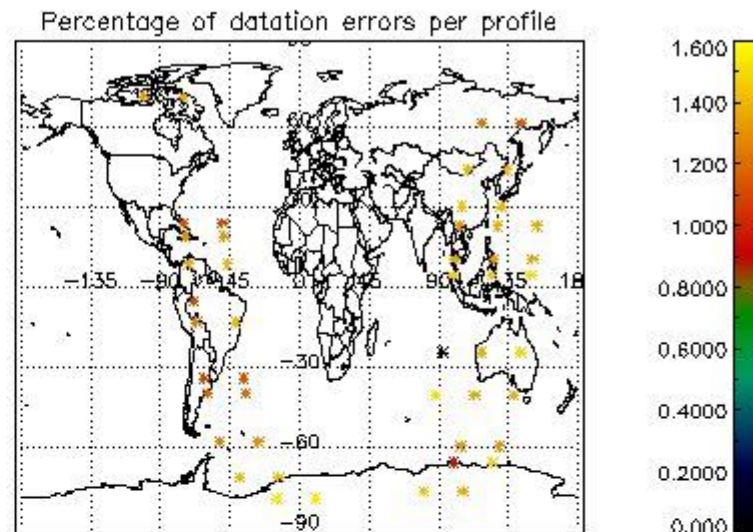
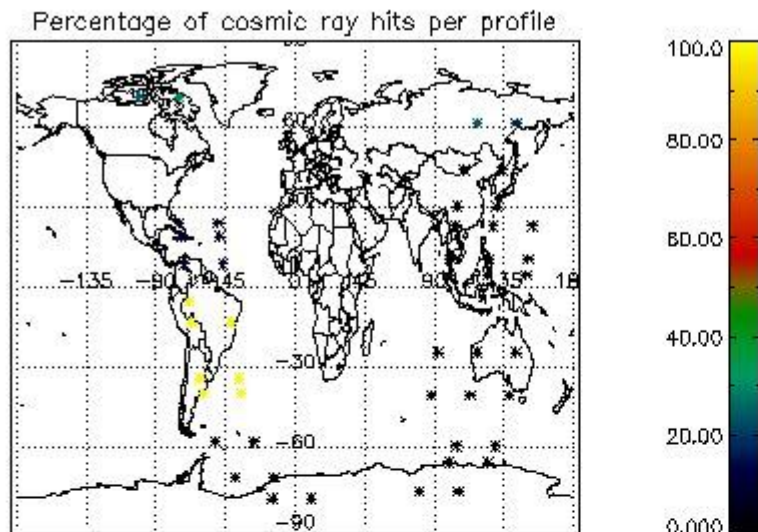
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)



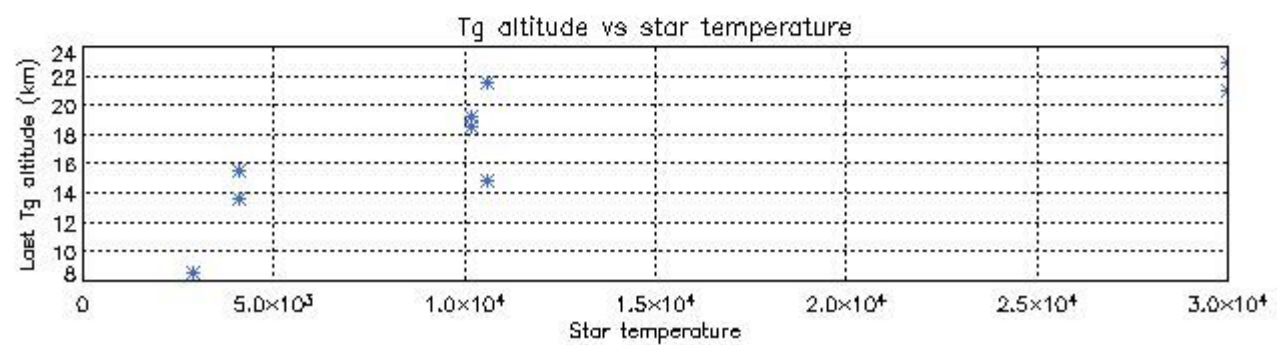
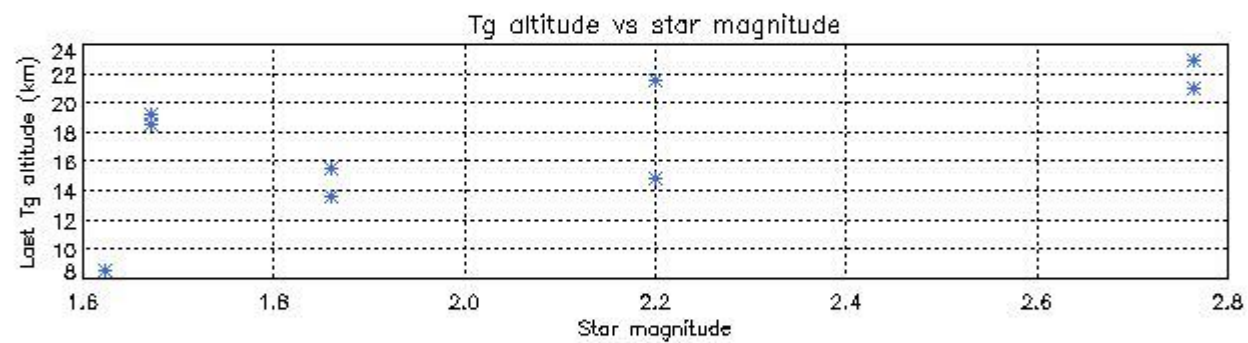
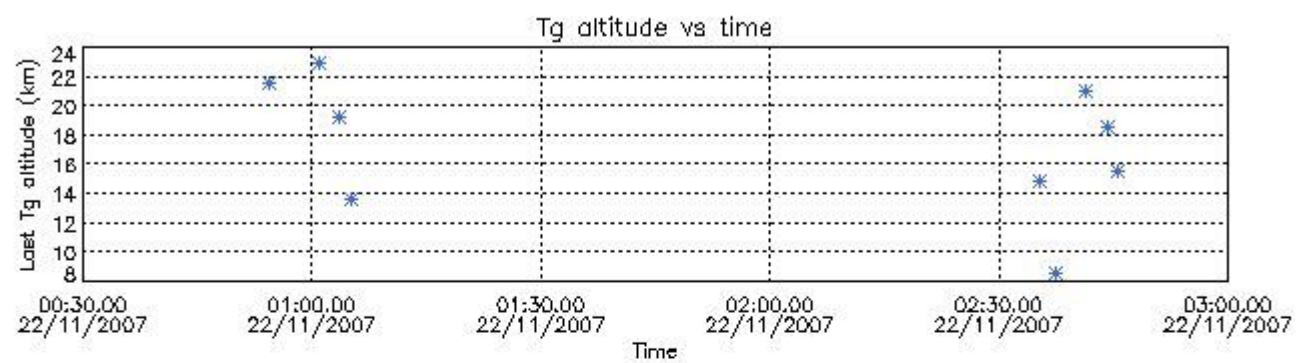
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.286	21.496	12.613
St. deviation:	4.5892	4.4391	1.2368
Maximum:	22.851	27.053	13.487
Minimum:	8.5080	3.5980	11.738
Number of data:	9.0000	31.000	2.0000

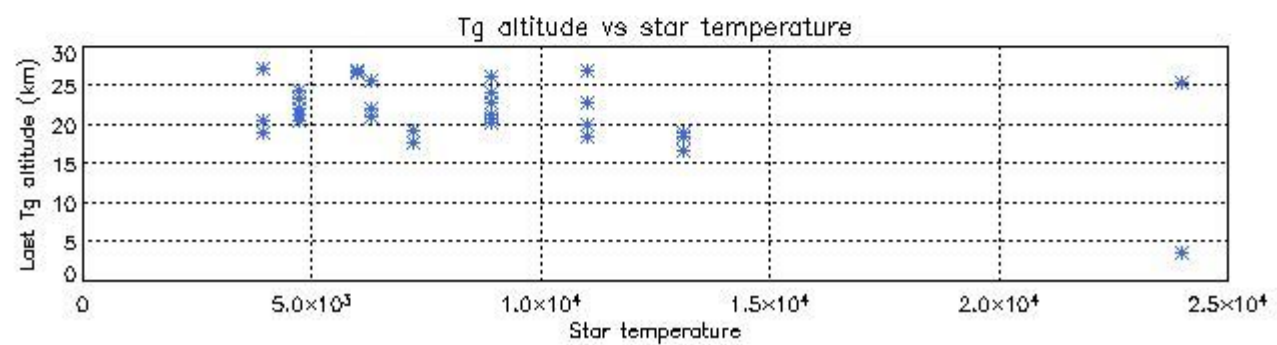
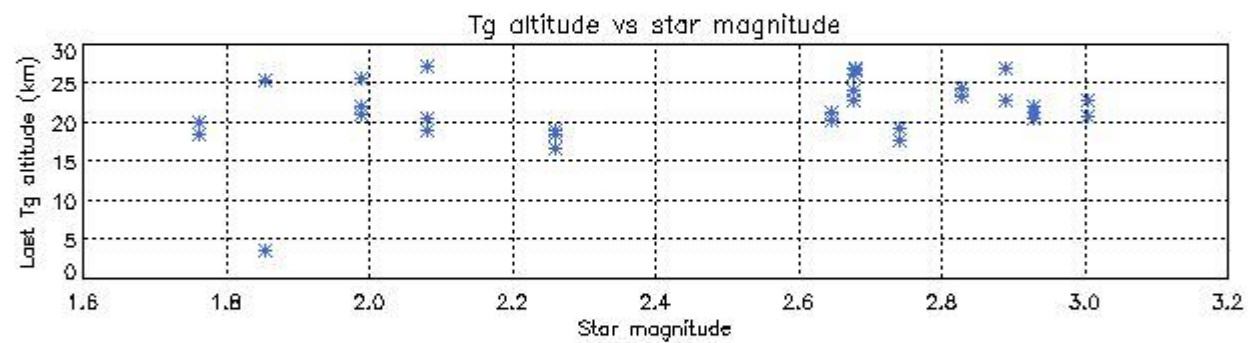
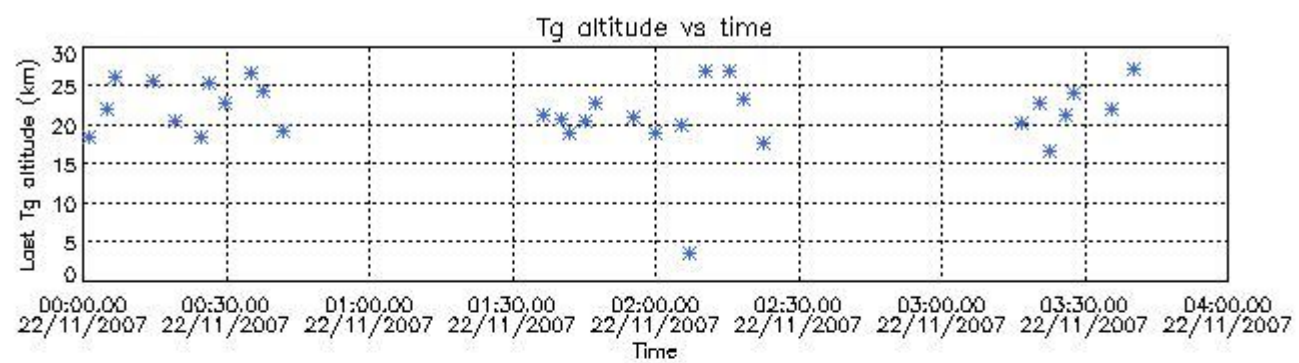
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



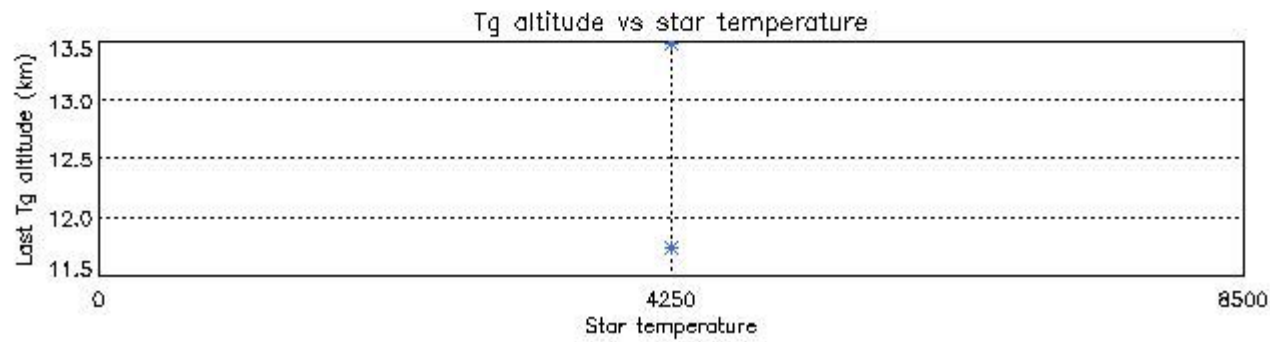
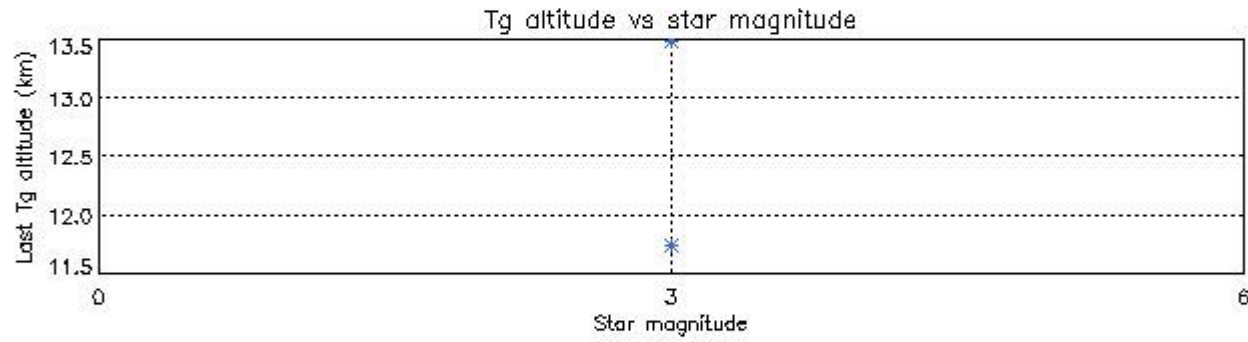
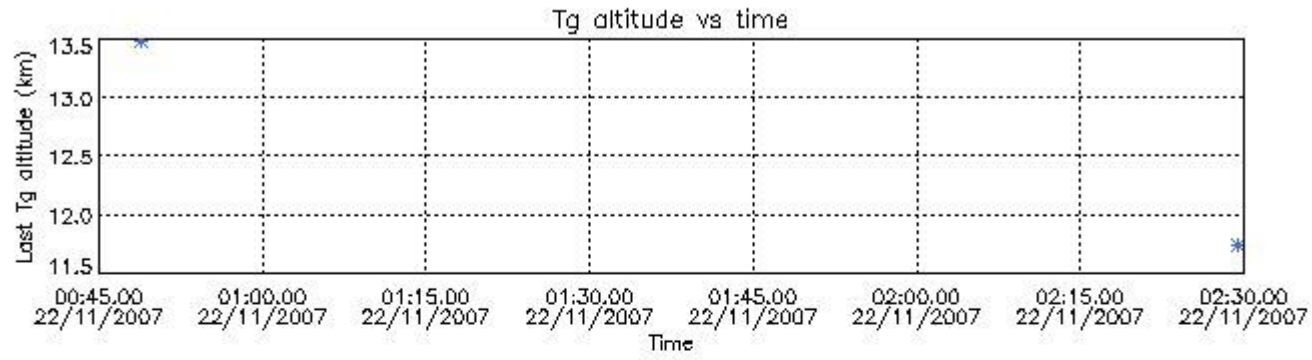
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

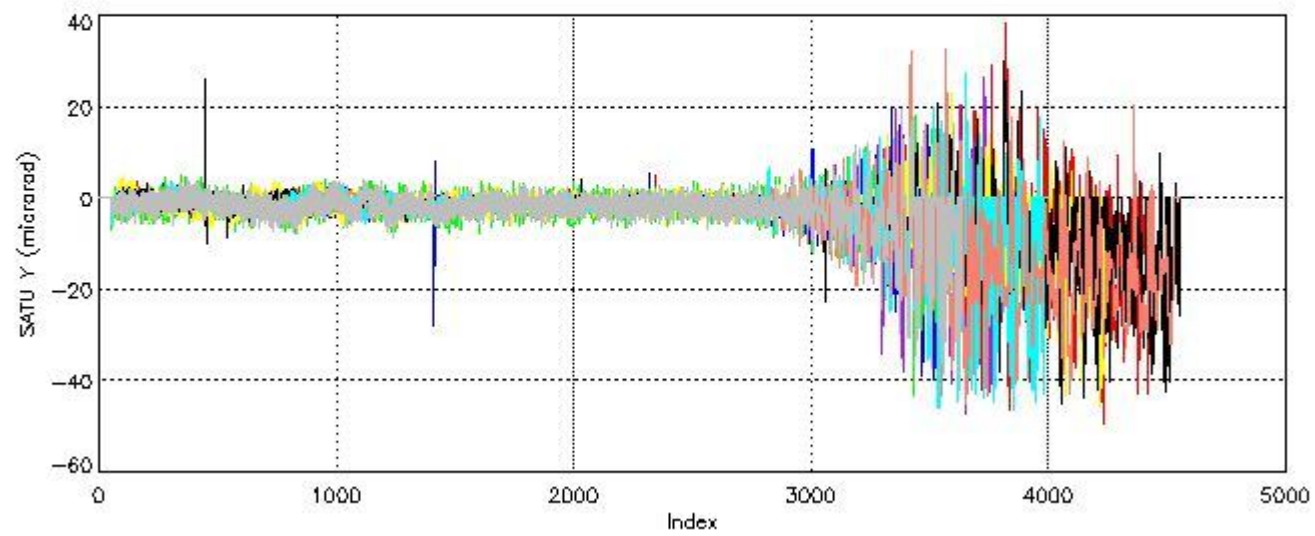
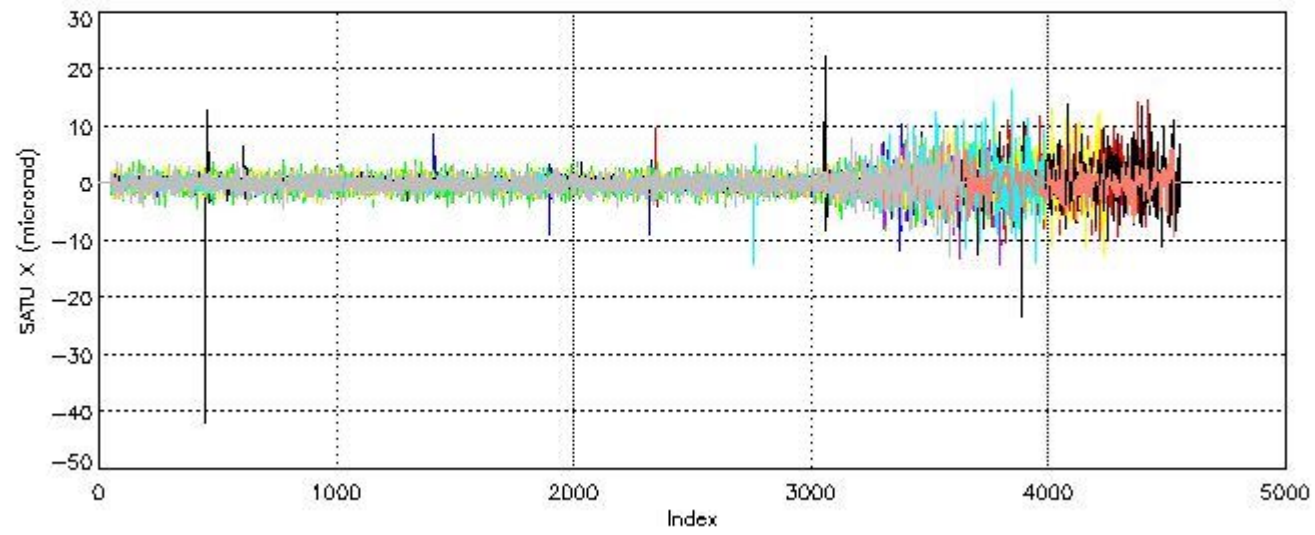


7. Star Acquisition and Tracking Unit (SATU)

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:	0.051884	-1.3789	0.026660	-1.3672
St. deviation:	0.58242	1.4030	0.84918	1.6123
Maximum:	4.1000	5.1000	5.7000	5.8000
Minimum:	-4.3000	-8.0000	-5.4000	-8.9000

Number of data:	7950.0	7950.0	25350.	25350.
-----------------	--------	--------	--------	--------

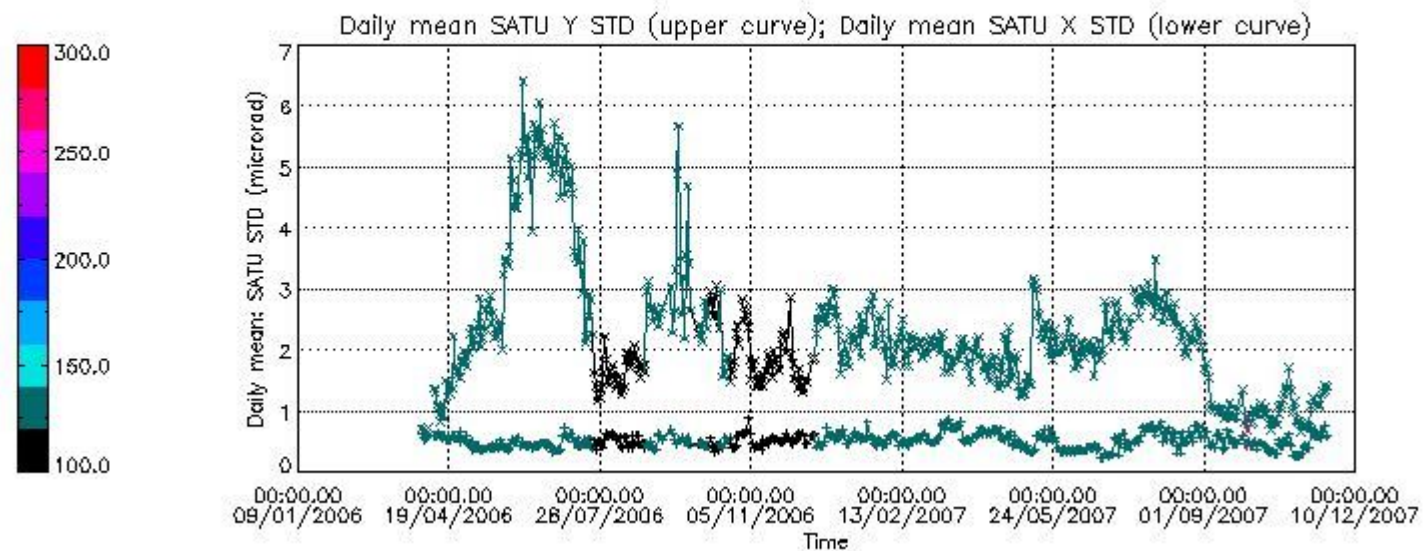
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

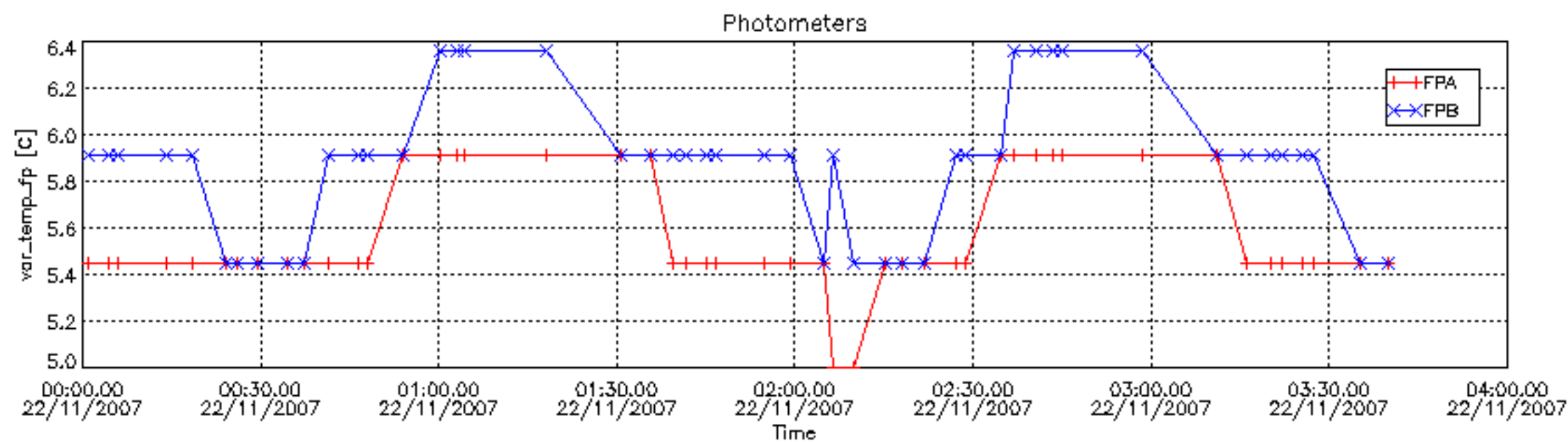
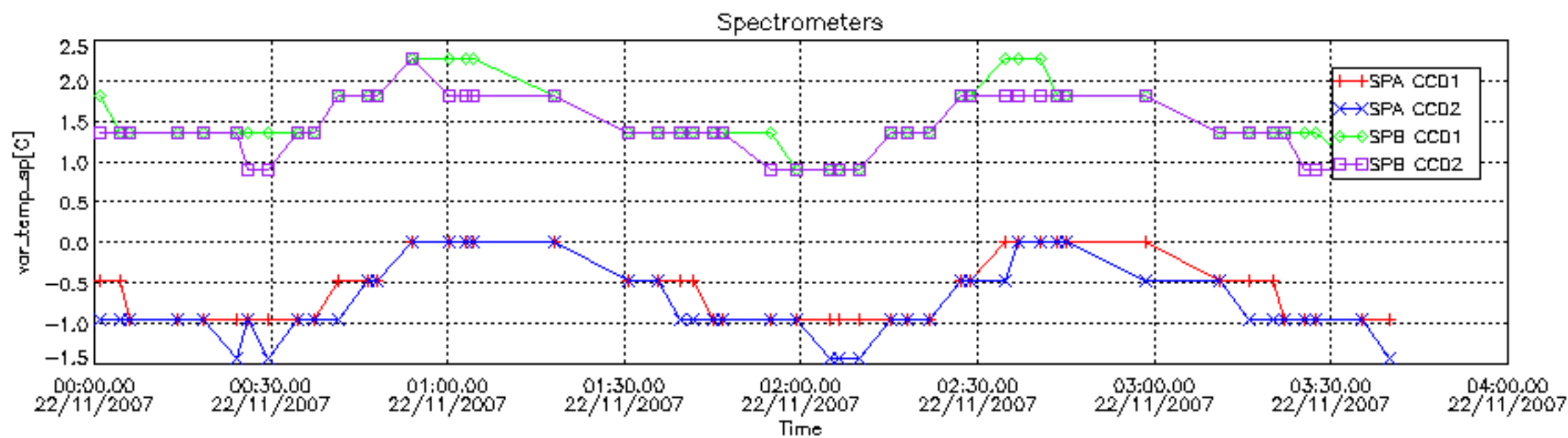
Lower curve: STD of SATU X axis

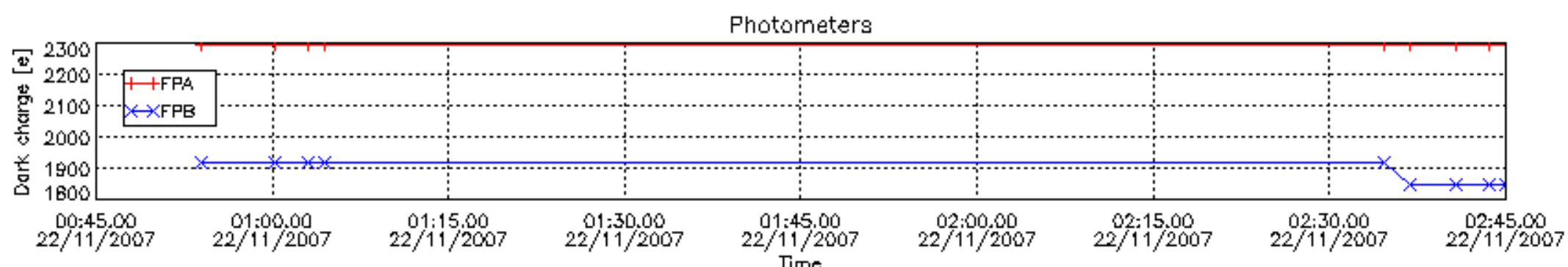
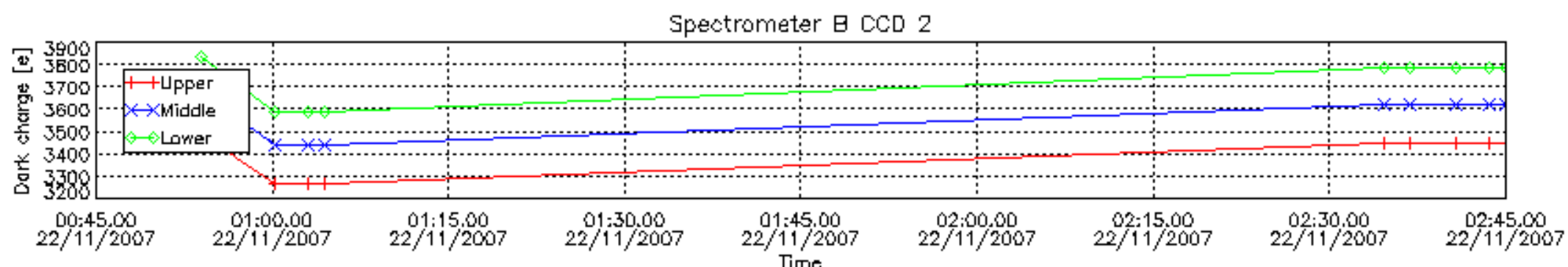
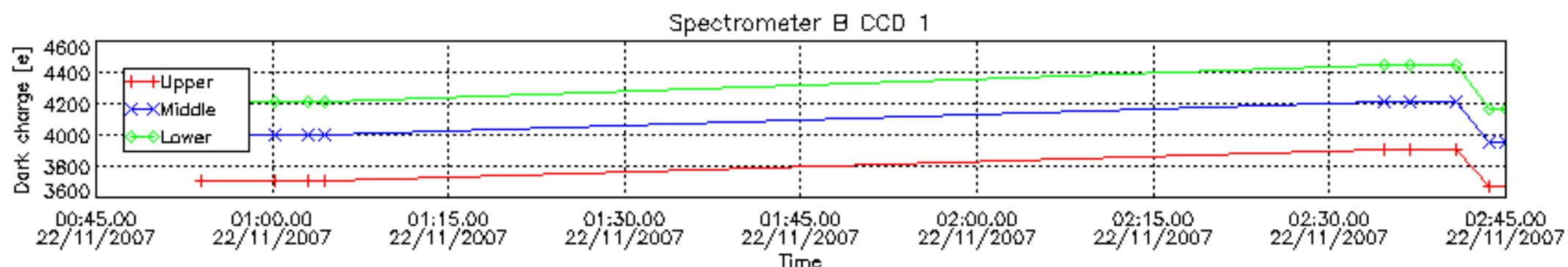
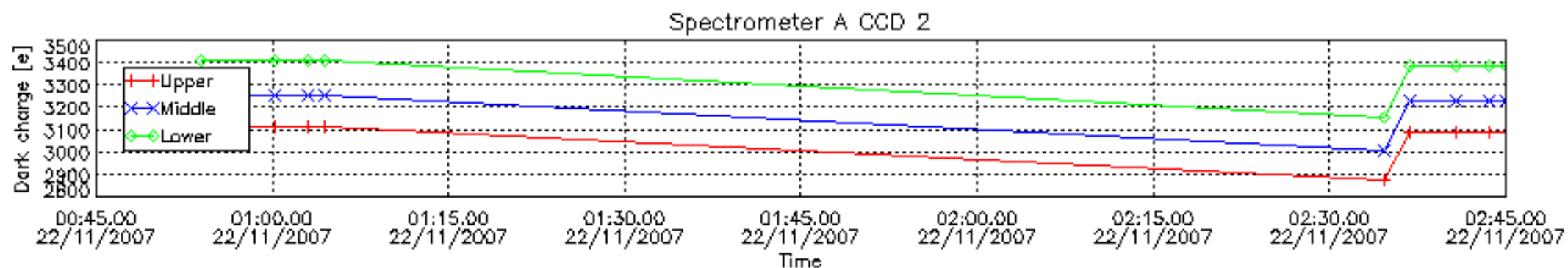
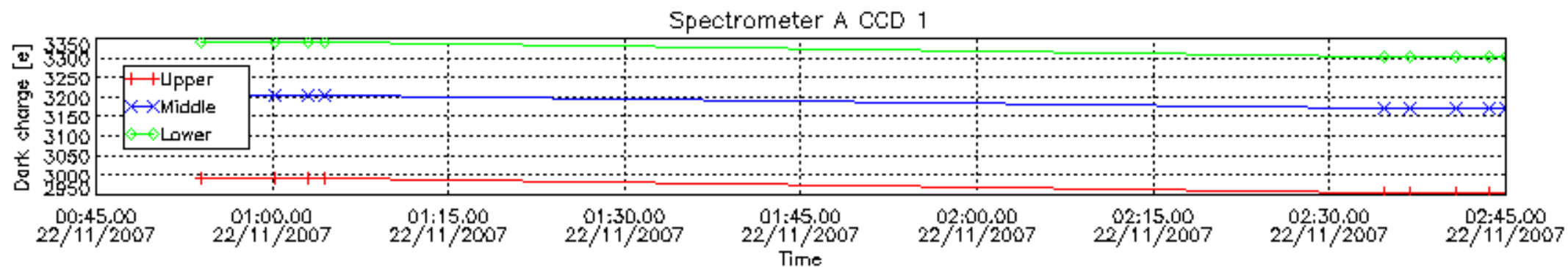


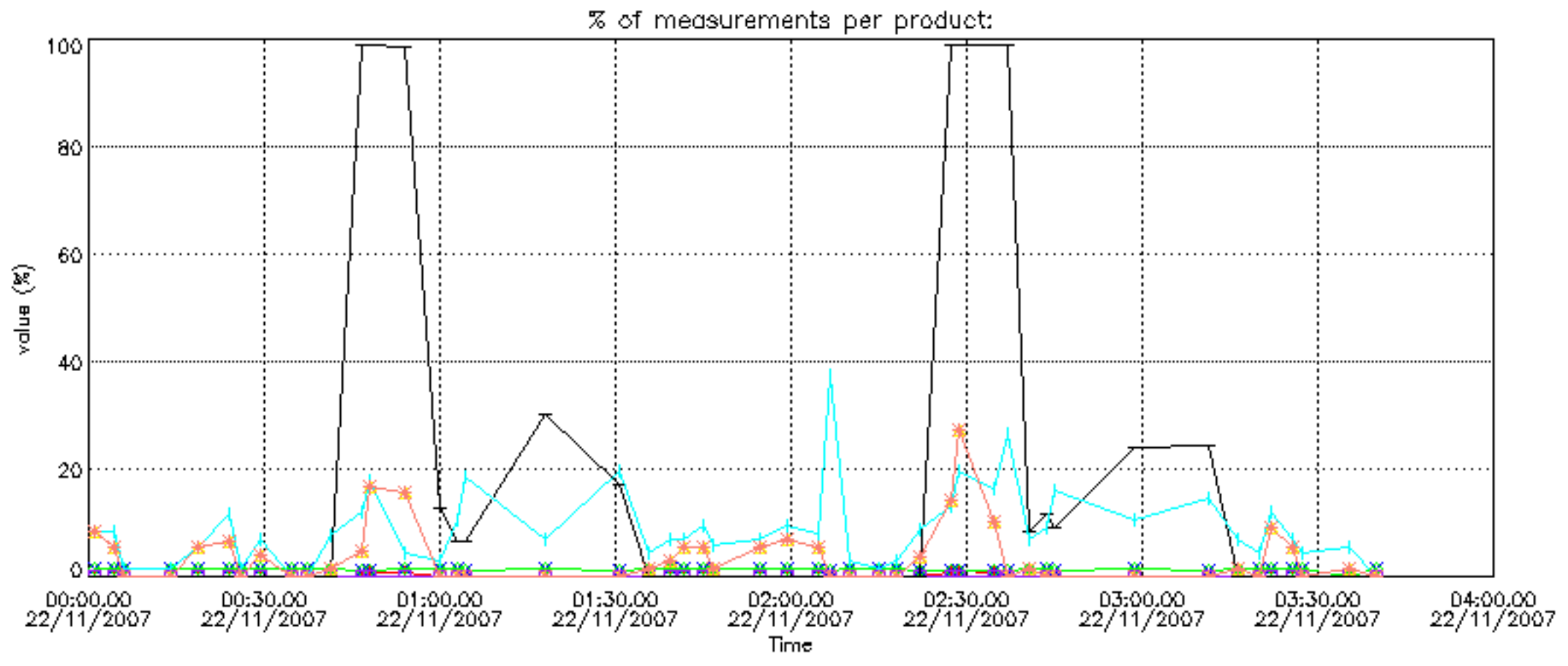
8. Auxiliary Data Files used for the production reported in section 2.4

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

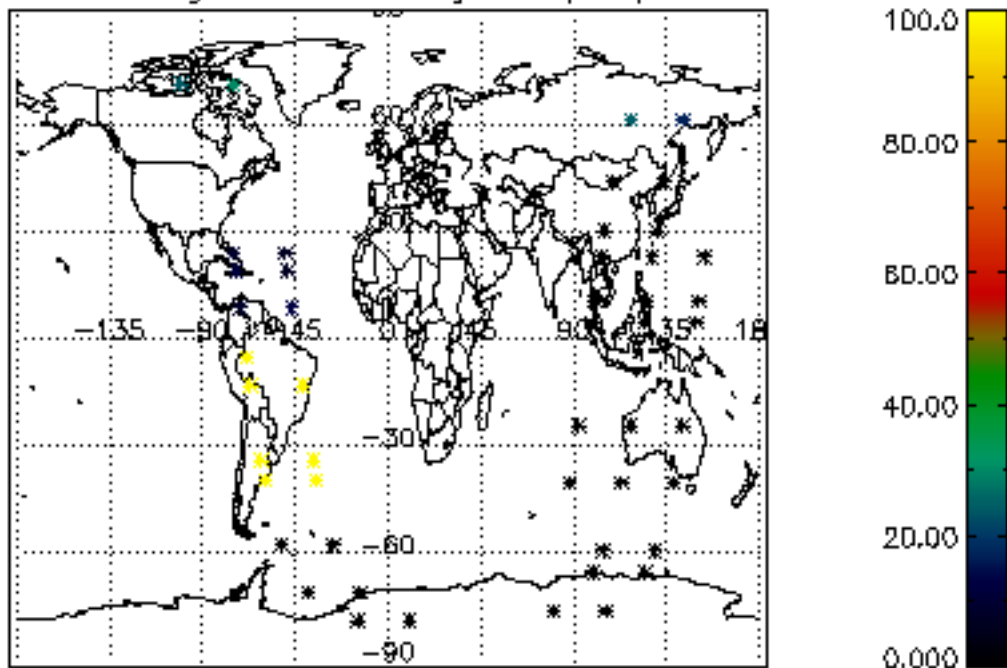
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-NOV-2007 00:00:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071114_162731_20071113_000000_20100101_000000	1	22-NOV-2007 00:00:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-NOV-2007 00:00:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-NOV-2007 00:00:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-NOV-2007 00:00:55
ECMWF_FILE	AUX_ECF_AXNECM20071121_063110_20071121_210000_20071122_090000	1	22-NOV-2007 00:00:55
ECMWF_FILE	AUX_ECF_AXNECM20071121_183110_20071122_030000_20071122_150000	48	22-NOV-2007 03:39:51
OPTIONAL_ECMWF_FILE	MISSING	1	22-NOV-2007 00:00:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071121_211916_000060572063_00329_29942_4608.N1	1	22-NOV-2007 00:00:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071121_230532_000057382063_00330_29943_4609.N1	12	22-NOV-2007 00:46:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071122_004110_000057382063_00331_29944_4610.N1	32	22-NOV-2007 02:21:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071122_021648_000044632063_00332_29945_4611.N1	48	22-NOV-2007 03:39:51



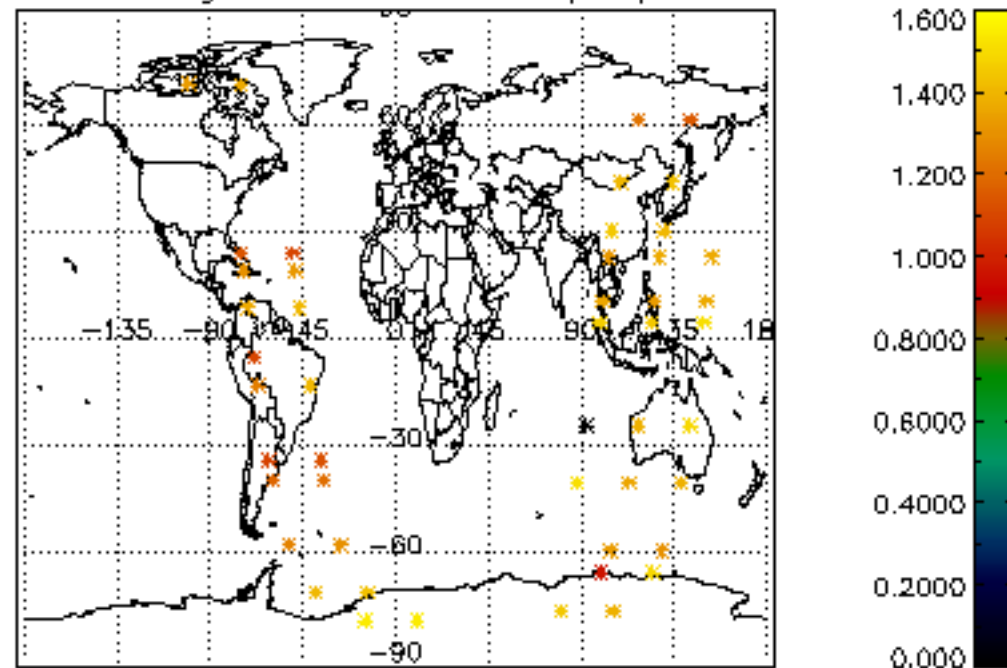




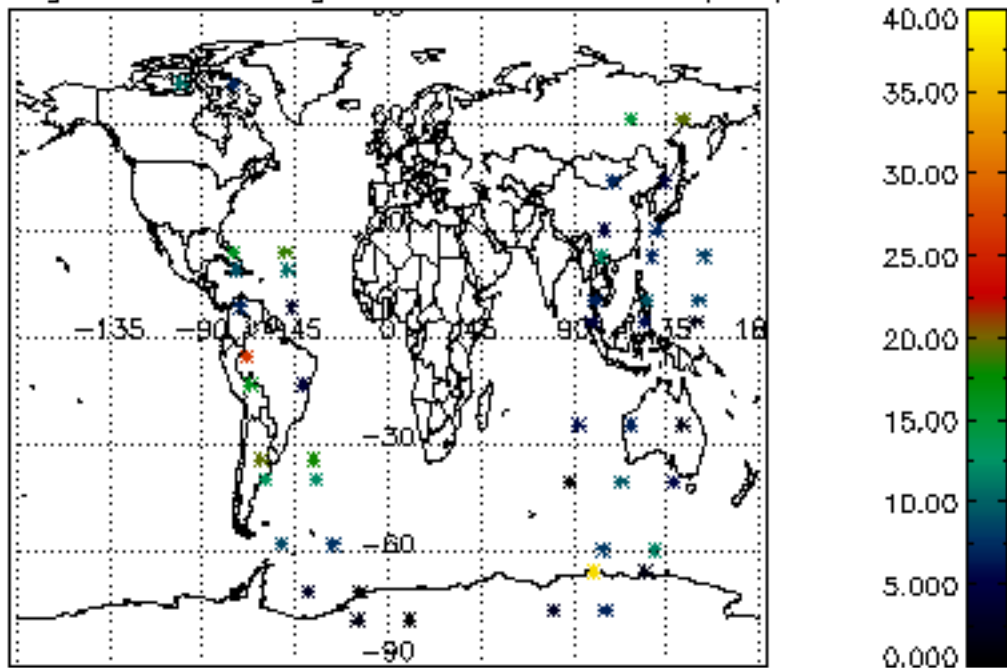
Percentage of cosmic ray hits per profile



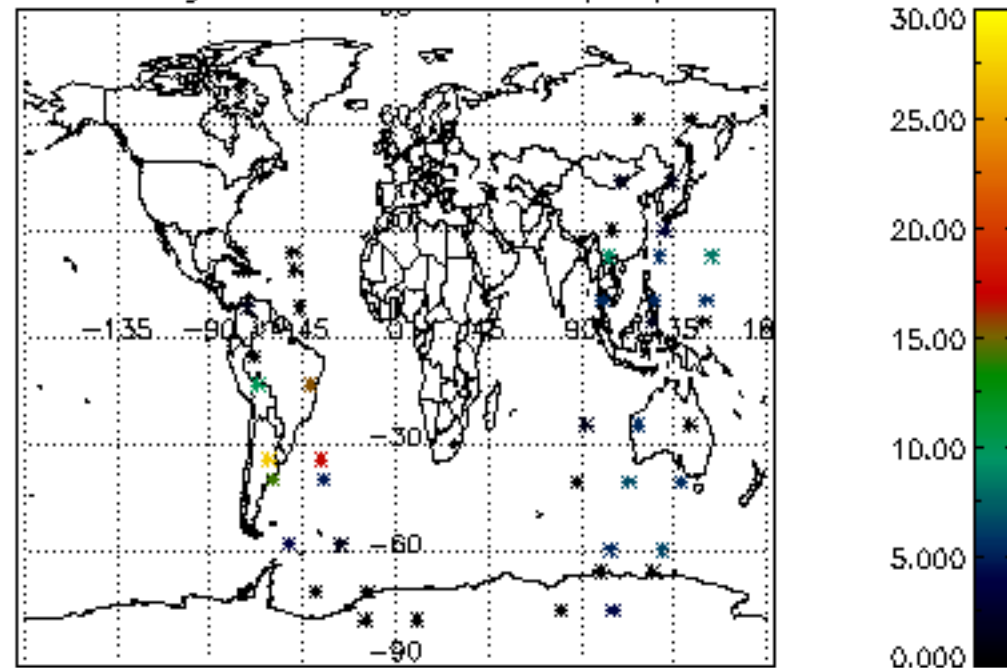
Percentage of datation errors per profile



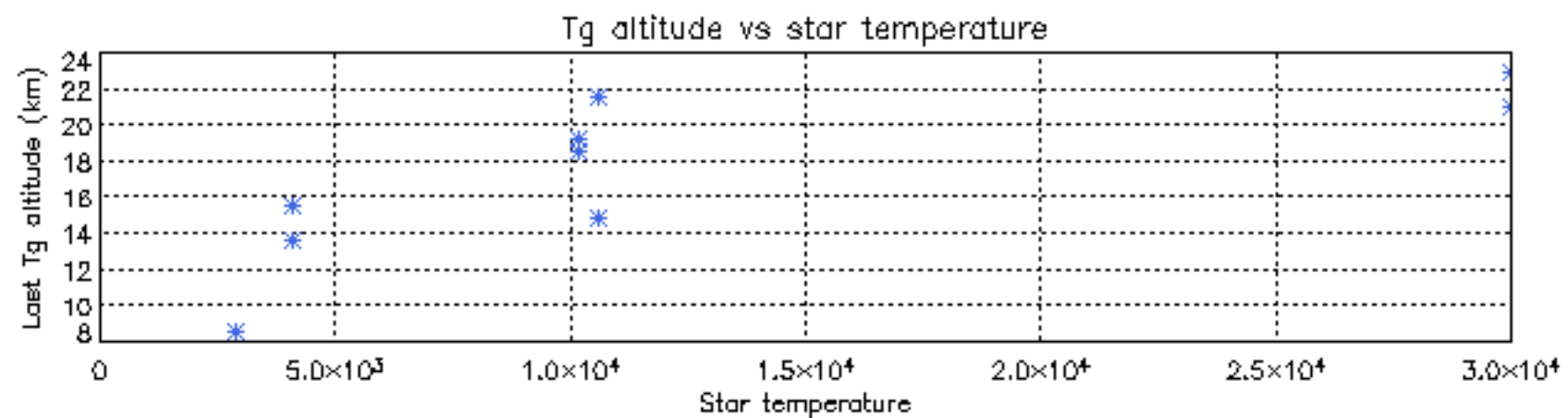
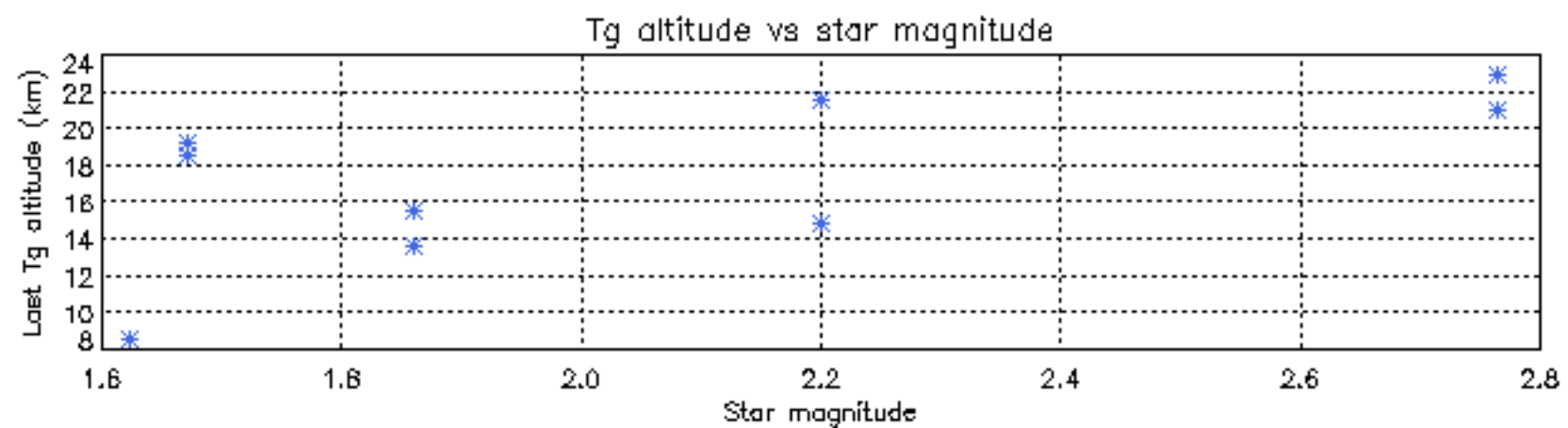
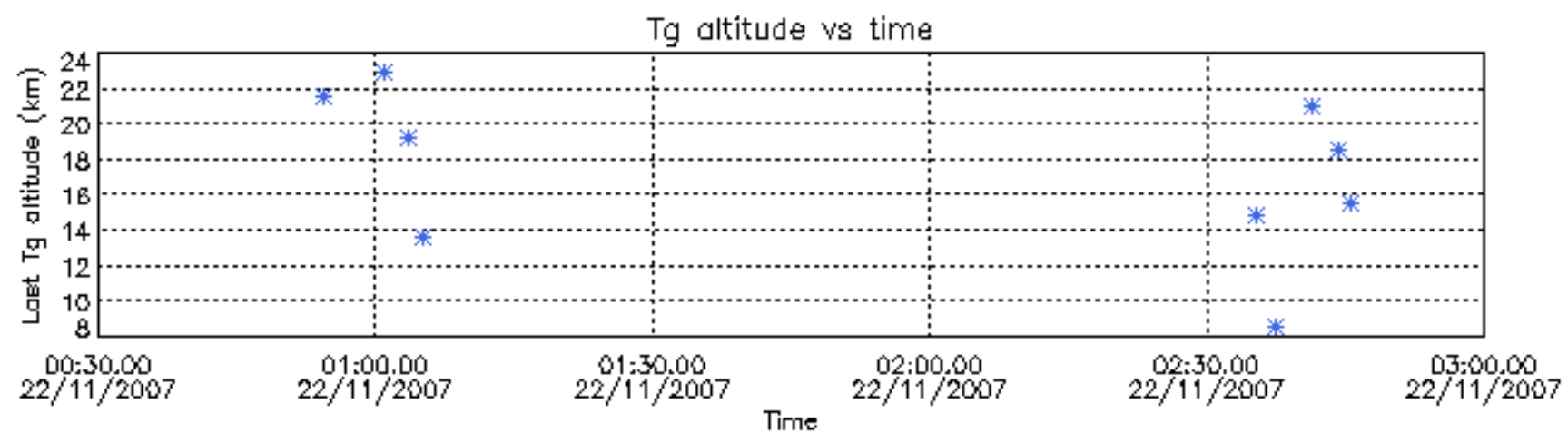
Percentage of star falling outside central band per profile



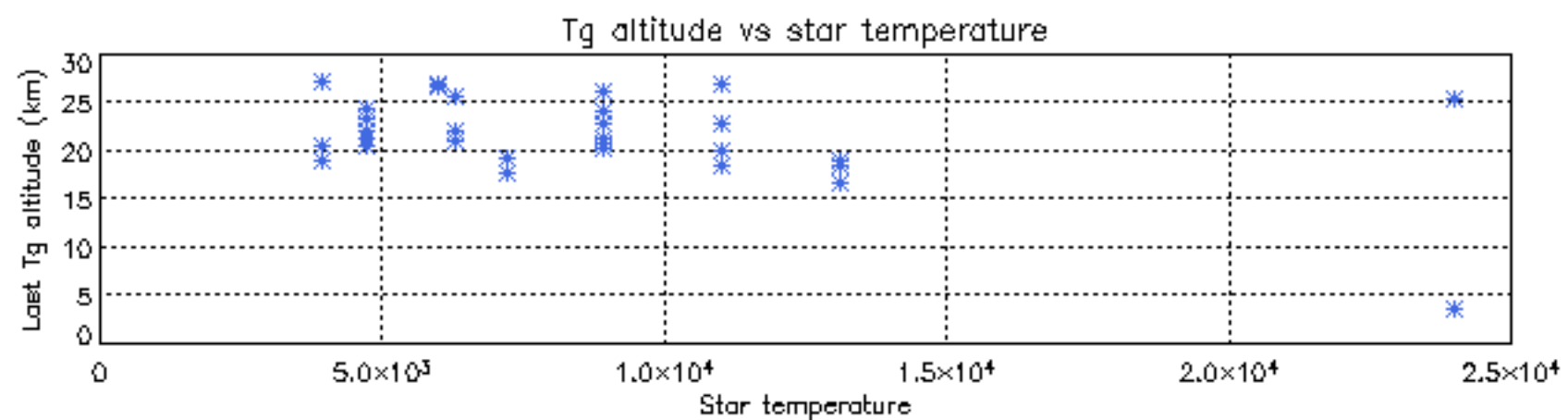
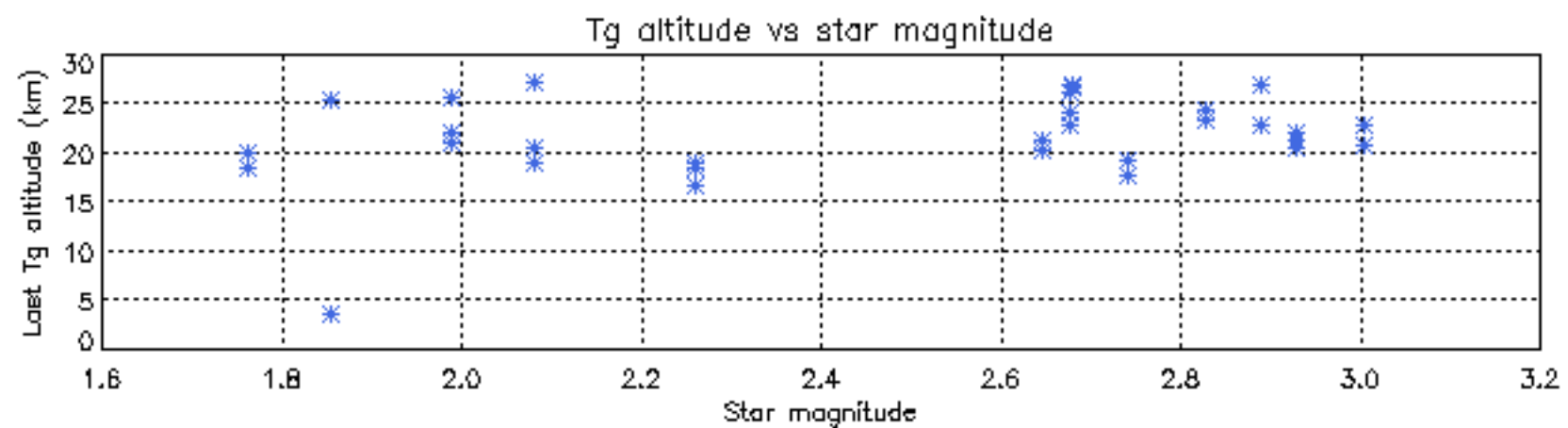
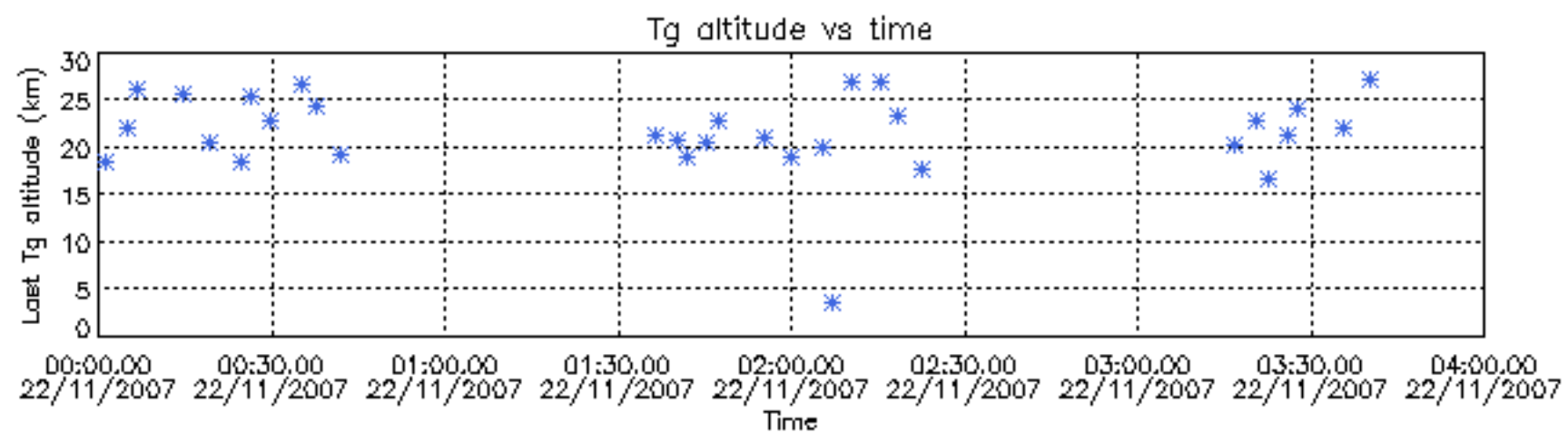
Percentage of saturation errors per profile



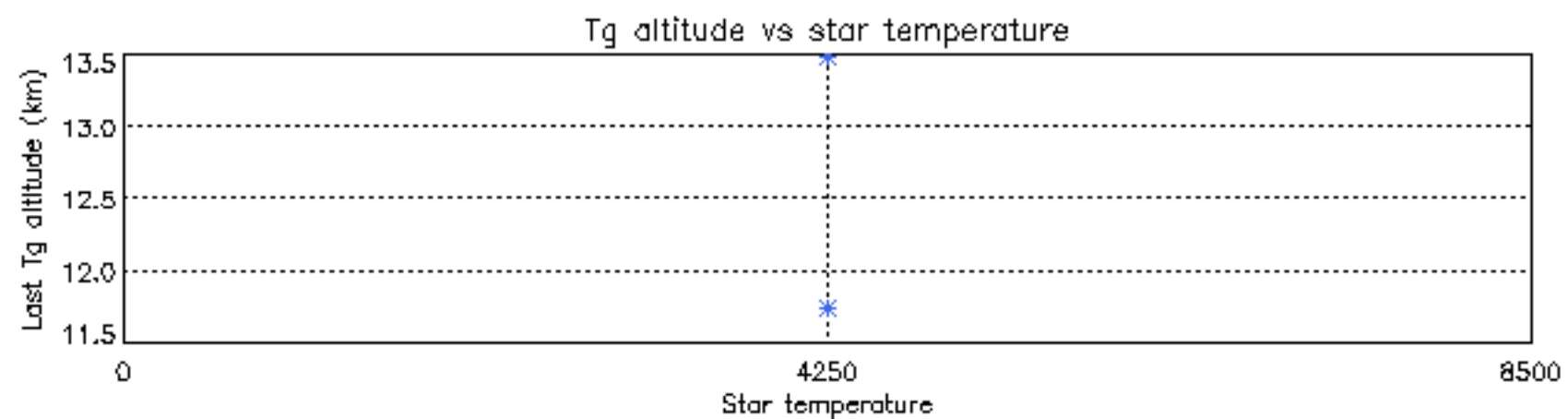
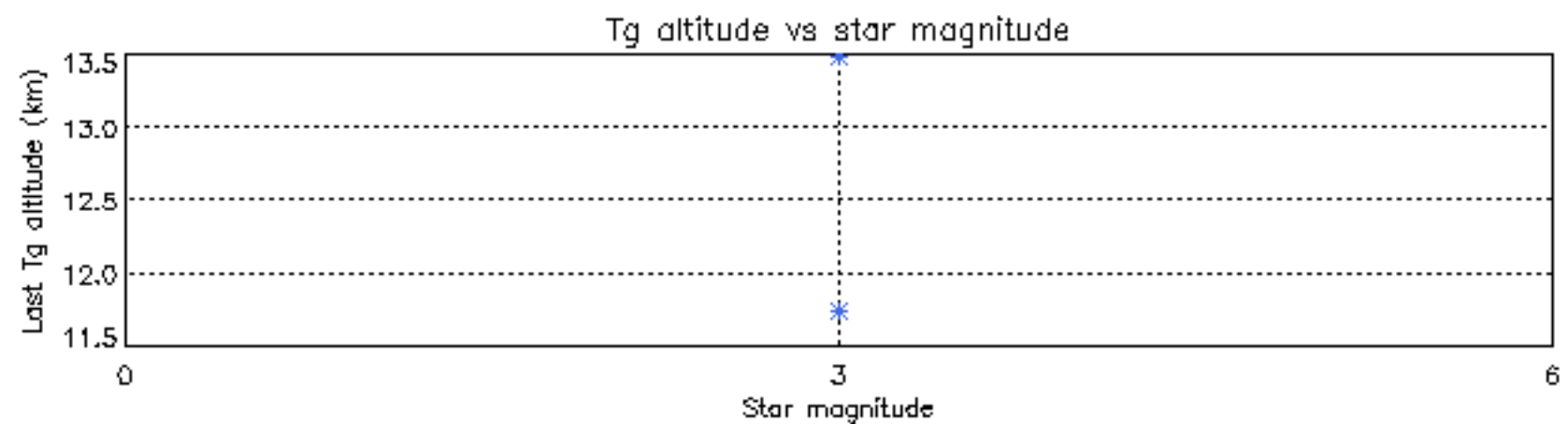
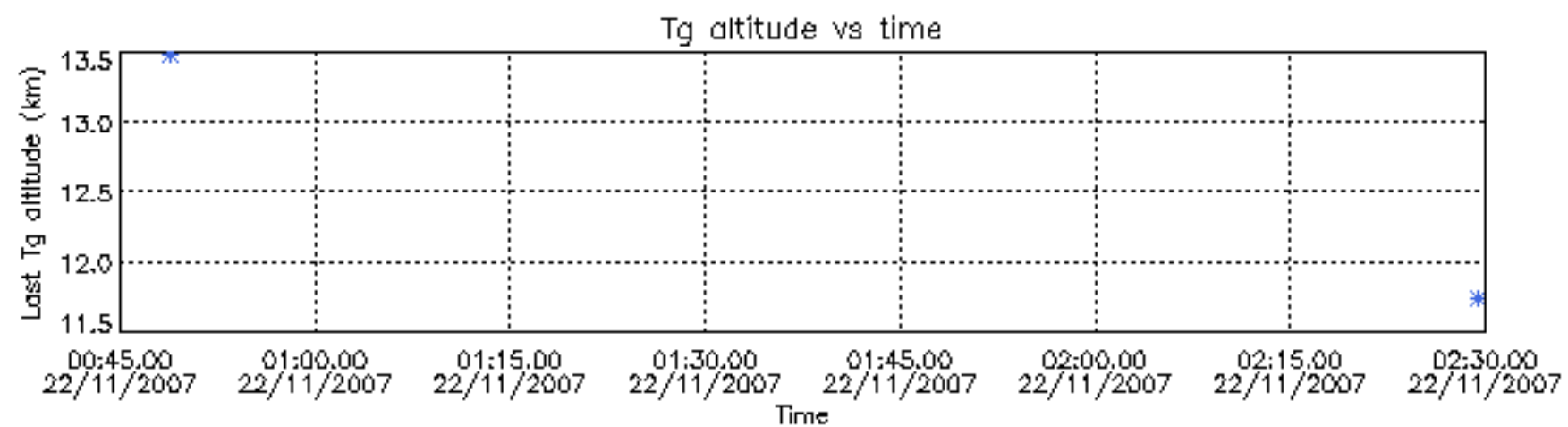
Tangent altitude at which the star is lost

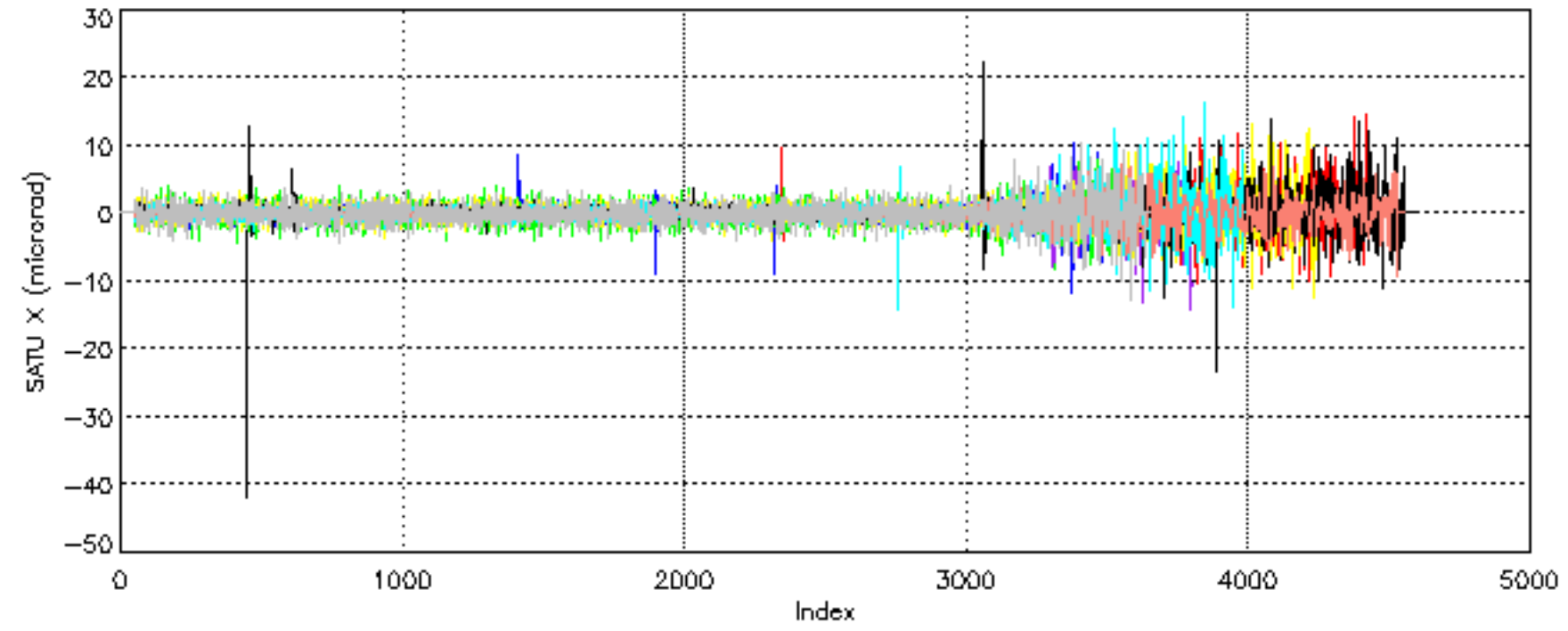


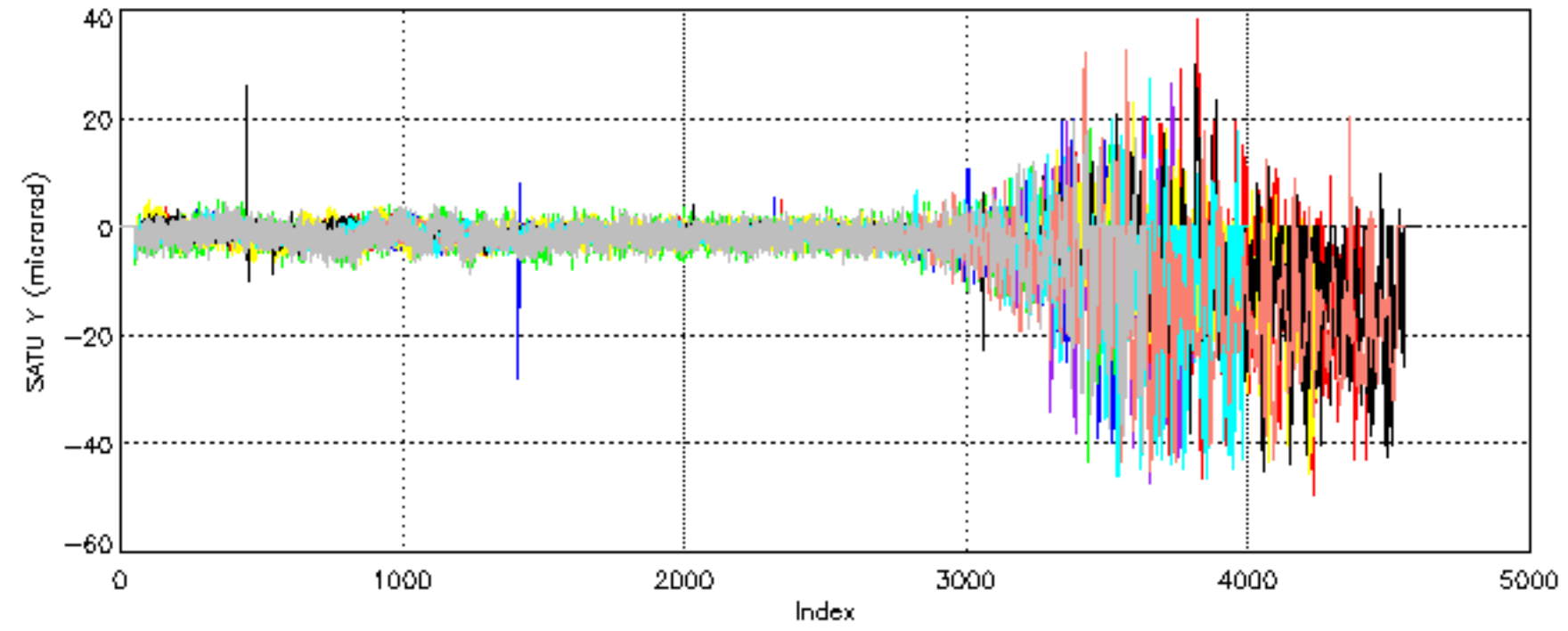
Tangent altitude at which the star is lost

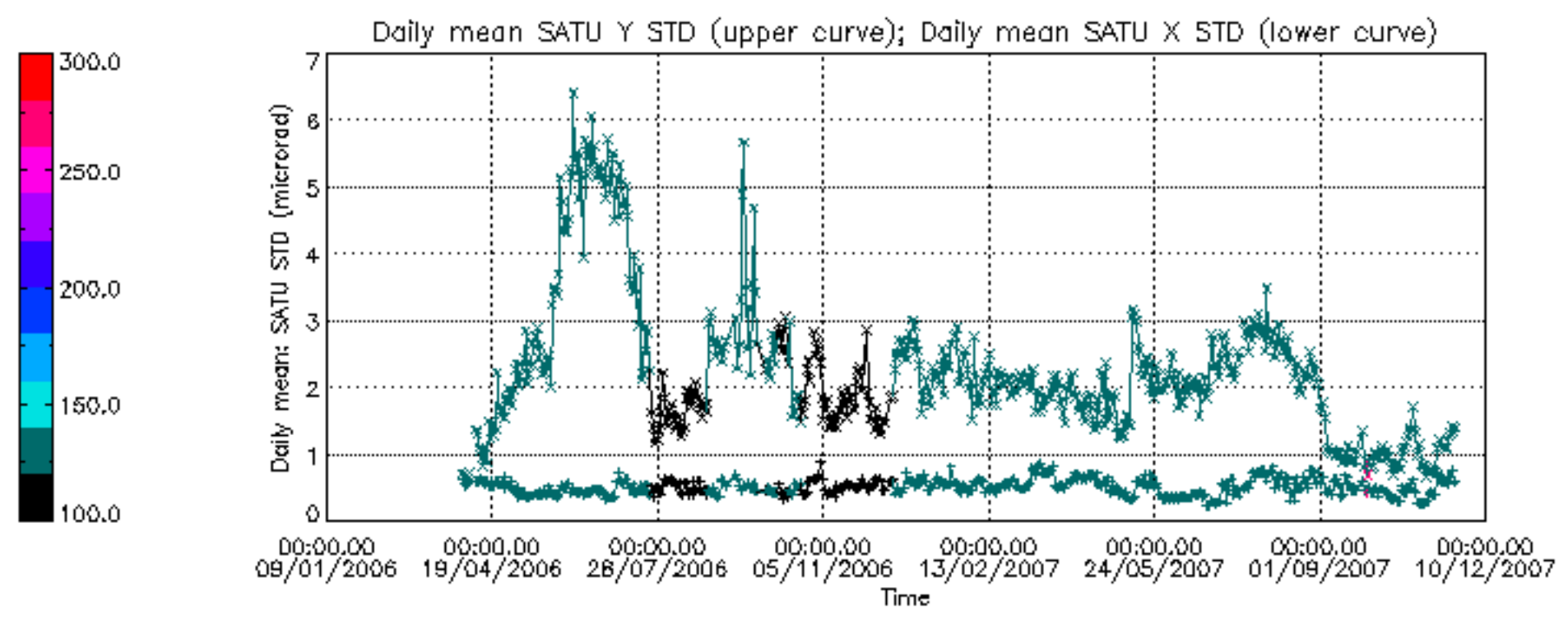


Tangent altitude at which the star is lost









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 3; 212.3; 01-NOV-2007 00:21:02; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29644
 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644
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 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
 7; 2274.5; 01-NOV-2007 00:55:24; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;29644
 8; 2514.8; 01-NOV-2007 00:59:25; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29644
 9; 2662.9; 01-NOV-2007 01:01:53; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29644
 10; 2867.3; 01-NOV-2007 01:05:17; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29644
 11; 2939.0; 01-NOV-2007 01:06:29; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29644
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 15; 4229.4; 01-NOV-2007 01:27:59; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29644
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 6; 132.7; 01-NOV-2007 03:40:54; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;29646
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12; 2514.4; 02-NOV-2007 03:48:59; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29660
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8; 357.2; 02-NOV-2007 04:53:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29661
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6; 2938.4; 02-NOV-2007 20:42:02; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29670
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8; 3910.3; 02-NOV-2007 20:58:14; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;29670
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9; 4229.9; 02-NOV-2007 07:38:47; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29662
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3; 2657.8; 02-NOV-2007 08:53:10; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29663
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 20; 6221.1; 28-NOV-2007 09:35:16; Dark ; 36.5; 124; The Car ; 2.76; 30000;occ; 73; 0;30035
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 22; 6493.8; 28-NOV-2007 09:39:48; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;30035
 23; 6819.4; 28-NOV-2007 09:45:14; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;30035
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 4; 2482.3; 28-NOV-2007 10:13:33; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;30036
 5; 2608.7; 28-NOV-2007 10:15:39; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;30036
 6; 2747.9; 28-NOV-2007 10:17:58; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;30036
 7; 3421.8; 28-NOV-2007 10:29:12; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30036
 8; 3699.5; 28-NOV-2007 10:33:50; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30036
 9; 4018.0; 28-NOV-2007 10:39:08; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;30036
 10; 4136.7; 28-NOV-2007 10:41:07; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30036
 11; 4306.8; 28-NOV-2007 10:43:57; Bright; 33.0; 180; 27Gam Boo ; 3.04; 8000;occ; 66; 0;30036
 12; 4637.0; 28-NOV-2007 10:49:27; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30036
 13; 4844.1; 28-NOV-2007 10:52:54; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30036
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 22; 6494.5; 28-NOV-2007 11:20:25; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30036
 23; 6819.9; 28-NOV-2007 11:25:50; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;30036

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9; 4017.9; 28-NOV-2007 12:19:44; Bright; 48.5; 32; 77Eps UMa ; 1.76; 11000;occ; 97; 0;30037
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11; 4307.0; 28-NOV-2007 12:24:33; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30037
12; 4637.2; 28-NOV-2007 12:30:03; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30037
13; 4844.5; 28-NOV-2007 12:33:31; Bright; 38.0; 138; 47Eps Vir ; 2.83; 4700;occ; 76; 0;30037
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17; 5522.5; 28-NOV-2007 12:44:49; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;30037
18; 5869.4; 28-NOV-2007 12:50:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30037
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23; 6820.4; 28-NOV-2007 13:06:27; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30037

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3; 2336.6; 28-NOV-2007 13:32:19; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;30038
4; 2481.7; 28-NOV-2007 13:34:44; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30038
5; 2608.6; 28-NOV-2007 13:36:51; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;30038
6; 2747.4; 28-NOV-2007 13:39:09; Bright; 42.5; 175; 39Del Per ; 3.01; 19400;occ; 85; 0;30038
7; 3421.9; 28-NOV-2007 13:50:24; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30038
8; 3699.7; 28-NOV-2007 13:55:02; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;30038
9; 4017.9; 28-NOV-2007 14:00:20; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;30038
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16; 5377.4; 28-NOV-2007 14:22:59; Dark ; 42.5; 163; 7Del Crv ; 2.94; 11000;occ; 85; 0;30038
17; 5476.7; 28-NOV-2007 14:24:39; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30038
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19; 5870.0; 28-NOV-2007 14:31:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30038
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22; 6391.4; 28-NOV-2007 14:39:53; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;30038
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24; 6821.1; 28-NOV-2007 14:47:03; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30038

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4; 2481.5; 28-NOV-2007 15:15:19; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30039
5; 2608.5; 28-NOV-2007 15:17:26; Bright; 37.5; 79; 26Bet Per ; 2.31; 13100;occ; 75; 0;30039
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7; 3422.0; 28-NOV-2007 15:31:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30039
8; 3699.8; 28-NOV-2007 15:35:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;30039
9; 4017.9; 28-NOV-2007 15:40:56; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;30039
10; 4137.1; 28-NOV-2007 15:42:55; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;30039
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 6; 2746.9; 28-NOV-2007 17:00:21; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30040
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 21; 4638.5; 29-NOV-2007 00:14:16; Bright; 33.5; 3; 16Alp Boo ;-0.05; 4250;occ; 67; 0;30044
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4; 2477.8; 29-NOV-2007 14:43:38; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000; occ; 78; 0; 30053
5; 2607.3; 29-NOV-2007 14:45:48; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100; occ; 72; 0; 30053
6; 2744.0; 29-NOV-2007 14:48:05; Bright; 35.5; 175; 39Del Per ; 3.01; 19400; occ; 71; 0; 30053
7; 2820.3; 29-NOV-2007 14:49:21; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700; occ; 73; 0; 30053
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9; 3700.7; 29-NOV-2007 15:04:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950; occ; 72; 0; 30053
10; 4017.1; 29-NOV-2007 15:09:18; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000; occ; 77; 0; 30053
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13; 4640.5; 29-NOV-2007 15:19:41; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250; occ; 67; 0; 30053
14; 4850.5; 29-NOV-2007 15:23:11; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700; occ; 78; 0; 30053
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16; 5196.9; 29-NOV-2007 15:28:58; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000; occ; 108; 0; 30053
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19; 5613.1; 29-NOV-2007 15:35:54; Dark ; 36.5; 123; Iot Cen ; 2.75; 10200; occ; 73; 0; 30053
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21; 6025.7; 29-NOV-2007 15:42:46; Dark ; 37.0; 129; Del Cru ; 2.79; 26000; occ; 74; 0; 30053
22; 6229.4; 29-NOV-2007 15:46:10; Dark ; 38.0; 124; The Car ; 2.76; 30000; occ; 76; 0; 30053
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9; 3700.6; 29-NOV-2007 16:44:37; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950; occ; 74; 0; 30054
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11; 4137.9; 29-NOV-2007 16:51:55; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000; occ; 71; 0; 30054
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13; 4640.7; 29-NOV-2007 17:00:17; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250; occ; 68; 0; 30054
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 22; 4138.1; 29-NOV-2007 23:34:19; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30058
 23; 4310.2; 29-NOV-2007 23:37:11; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30058
 24; 4641.3; 29-NOV-2007 23:42:42; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30058
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 27; 5198.5; 29-NOV-2007 23:51:59; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;30058

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 7; 71.4; 30-NOV-2007 00:07:08; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30059
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 22; 4138.1; 30-NOV-2007 01:14:54; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30059
 23; 4641.5; 30-NOV-2007 01:23:18; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30059
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4; -145.8; 30-NOV-2007 23:31:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30072
5; -47.0; 30-NOV-2007 23:33:32; Dark ; 42.0; 26; Gam Cru ; 1.62; 2900;occ; 84; 0;30072
6; 82.4; 30-NOV-2007 23:35:42; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30073
7; 201.9; 30-NOV-2007 23:37:41; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30073
8; 369.2; 30-NOV-2007 23:40:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30073
9; 481.0; 30-NOV-2007 23:42:20; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30073
10; 803.3; 30-NOV-2007 23:47:43; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30073
11; 1658.7; 01-DEC-2007 00:01:58; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;30073
12; 1980.2; 01-DEC-2007 00:07:20; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;30073
13; 2330.1; 01-DEC-2007 00:13:09; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;30073
14; 2472.6; 01-DEC-2007 00:15:32; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30073
15; 2605.9; 01-DEC-2007 00:17:45; Bright; 36.5; 79; 26Bet Per ; 2.31; 13100;occ; 73; 0;30073
16; 2739.7; 01-DEC-2007 00:19:59; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30073
17; 2818.8; 01-DEC-2007 00:21:18; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30073
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20; 4015.4; 01-DEC-2007 00:41:15; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;30073
21; 4138.7; 01-DEC-2007 00:43:18; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30073
22; 4312.4; 01-DEC-2007 00:46:12; Bright; 33.5; 180; 27Gam Boo ; 3.04; 8000;occ; 67; 0;30073
23; 4644.1; 01-DEC-2007 00:51:43; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30073
24; 4857.3; 01-DEC-2007 00:55:17; Bright; 40.0; 138; 47Eps Vir ; 2.83; 4700;occ; 80; 0;30073
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