

GOMOS Daily Report 29-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	31DEC2007 05:48:33
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (29DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	28
Nb of prods with errors	0

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

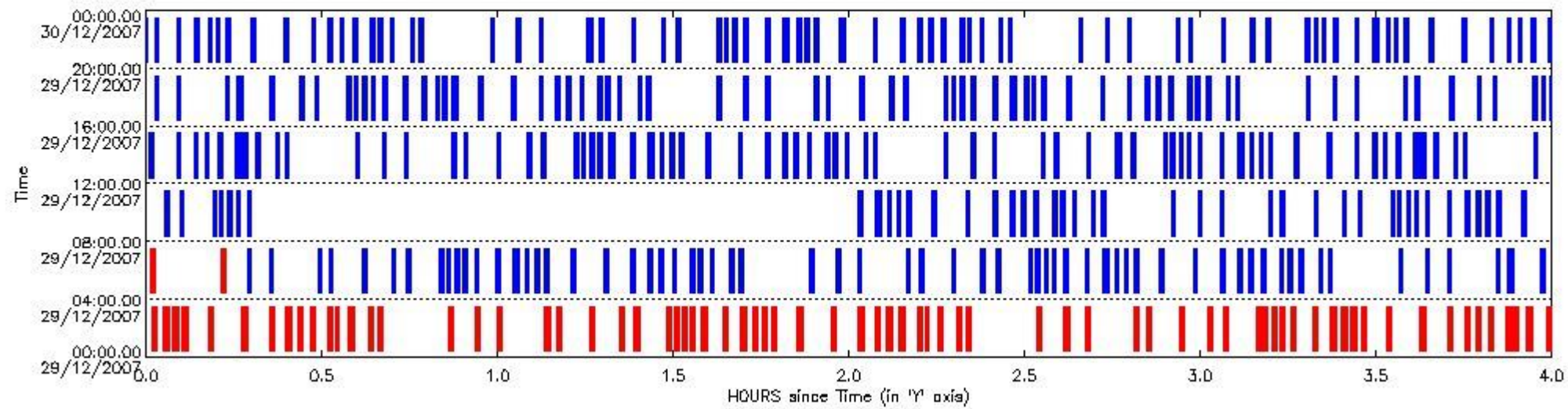
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

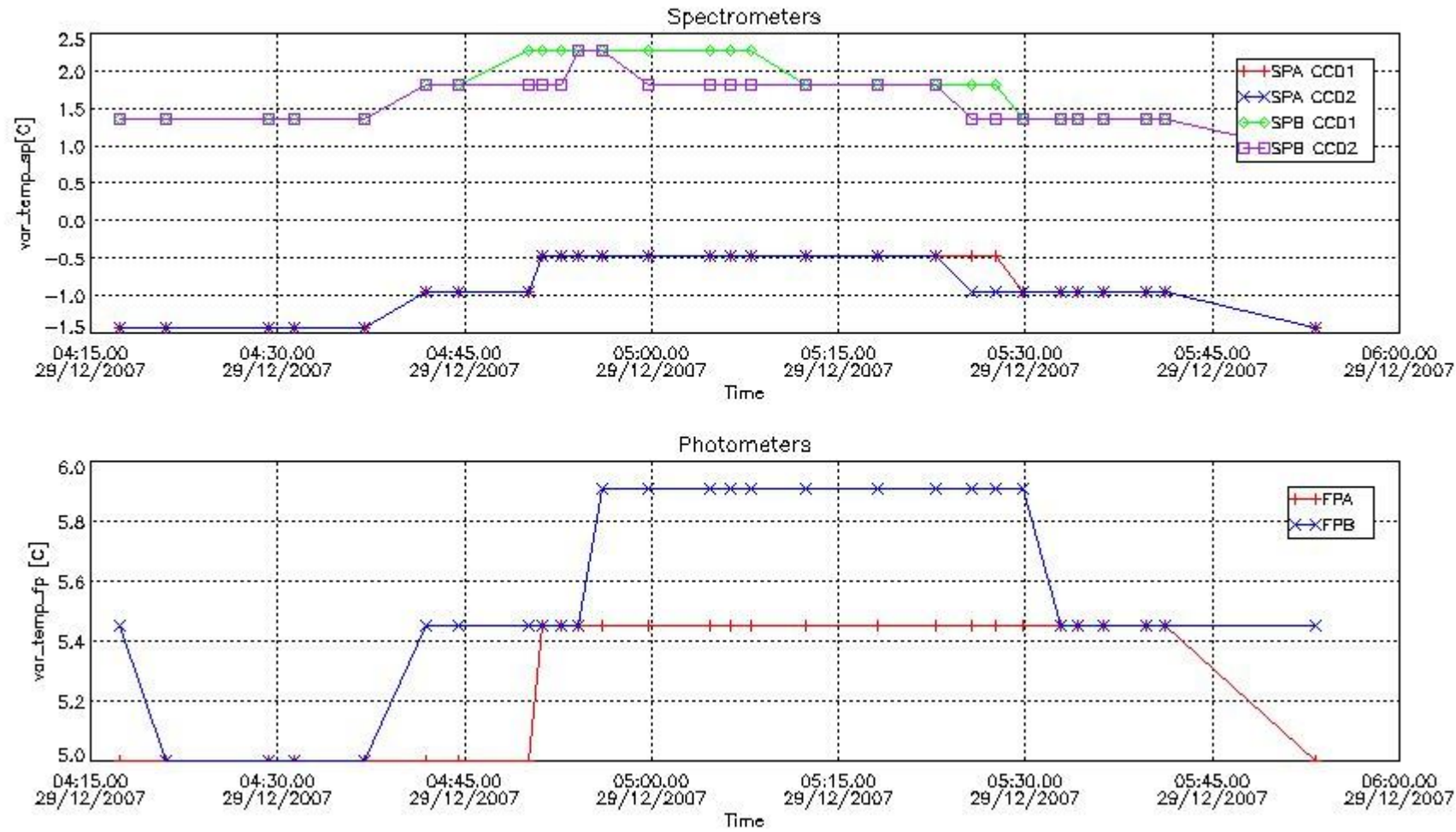
UTC start time	Star name	Star ID	Orbit
29-DEC-2007 00:00:52	DSA1029	0	30474
29-DEC-2007 00:02:52	UpsCar	159	30474
29-DEC-2007 00:04:30	lotCar	71	30474
29-DEC-2007 00:06:10	EpsCar	41	30474
29-DEC-2007 00:10:32	AlpCar	2	30474
29-DEC-2007 00:16:17	AlpCol	108	30474
29-DEC-2007 00:20:58	11AlpLep	101	30474
29-DEC-2007 00:23:51	19BetOri	7	30474
29-DEC-2007 00:25:47	46EpsOri	30	30474
29-DEC-2007 00:28:00	24GamOri	27	30474
29-DEC-2007 00:31:02	87AlpTau	13	30474
29-DEC-2007 00:32:24	23ZetTau	176	30474
29-DEC-2007 00:34:30	12BetTau	28	30474
29-DEC-2007 00:37:50	45EpsPer	149	30474
29-DEC-2007 00:39:25	13AlpAur	6	30474

29-DEC-2007 00:51:30	1AlpUMi	49	30474
29-DEC-2007 00:56:03	7BetUMi	60	30474
29-DEC-2007 00:59:46	14EtaDra	119	30474
29-DEC-2007 01:08:01	40ZetHer	133	30474
29-DEC-2007 01:10:04	5AlpCrB	67	30474
29-DEC-2007 01:15:44	24AlpSer	102	30474
29-DEC-2007 01:20:40	27BetLib	104	30474
29-DEC-2007 01:23:13	9Alp2Lib	122	30474
29-DEC-2007 01:28:50	GamLup	131	30474
29-DEC-2007 01:30:03	BetLup	109	30474
29-DEC-2007 01:31:30	AlpLup	78	30474
29-DEC-2007 01:32:50	ZetCen	95	30474
29-DEC-2007 01:34:48	Alp1Cen	4	30474
29-DEC-2007 01:38:28	Alp1Cru	12	30475
29-DEC-2007 01:41:28	DSA1029	0	30475
29-DEC-2007 01:43:28	UpsCar	159	30475
29-DEC-2007 01:45:07	lotCar	71	30475
29-DEC-2007 01:46:46	EpsCar	41	30475
29-DEC-2007 01:51:08	AlpCar	2	30475
29-DEC-2007 01:56:54	AlpCol	108	30475
29-DEC-2007 02:01:34	11AlpLep	101	30475
29-DEC-2007 02:04:27	19BetOri	7	30475
29-DEC-2007 02:06:23	46EpsOri	30	30475
29-DEC-2007 02:08:36	24GamOri	27	30475
29-DEC-2007 02:11:38	87AlpTau	13	30475
29-DEC-2007 02:13:00	23ZetTau	176	30475
29-DEC-2007 02:15:06	12BetTau	28	30475
29-DEC-2007 02:18:26	45EpsPer	149	30475
29-DEC-2007 02:20:01	13AlpAur	6	30475
29-DEC-2007 02:32:06	1AlpUMi	49	30475
29-DEC-2007 02:36:39	7BetUMi	60	30475
29-DEC-2007 02:40:22	14EtaDra	119	30475
29-DEC-2007 02:48:37	40ZetHer	133	30475
29-DEC-2007 02:50:40	5AlpCrB	67	30475
29-DEC-2007 02:56:20	24AlpSer	102	30475
29-DEC-2007 03:01:17	27BetLib	104	30475
29-DEC-2007 03:03:50	9Alp2Lib	122	30475
29-DEC-2007 03:09:26	GamLup	131	30475
29-DEC-2007 03:10:39	BetLup	109	30475
29-DEC-2007 03:12:06	AlpLup	78	30475
29-DEC-2007 03:13:27	ZetCen	95	30475
29-DEC-2007 03:15:24	Alp1Cen	4	30475
29-DEC-2007 03:19:04	Alp1Cru	12	30476
29-DEC-2007 03:22:05	DSA1029	0	30476
29-DEC-2007 03:24:05	UpsCar	159	30476
29-DEC-2007 03:25:43	lotCar	71	30476
29-DEC-2007 03:27:23	EpsCar	41	30476
29-DEC-2007 03:31:45	AlpCar	2	30476
29-DEC-2007 03:37:30	AlpCol	108	30476
29-DEC-2007 03:42:10	11AlpLep	101	30476
29-DEC-2007 03:45:03	19BetOri	7	30476
29-DEC-2007 03:46:58	46EpsOri	30	30476
29-DEC-2007 03:49:12	24GamOri	27	30476
29-DEC-2007 03:52:14	87AlpTau	13	30476
29-DEC-2007 03:53:36	23ZetTau	176	30476
29-DEC-2007 03:55:41	12BetTau	28	30476
29-DEC-2007 03:59:02	45EpsPer	149	30476
29-DEC-2007 04:00:37	13AlpAur	6	30476
29-DEC-2007 04:12:42	1AlpUMi	49	30476

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_1PNPDE20071229_041716_000000352064_00362_30476_5636.N1	29-DEC-2007 04:17:16	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	30476	No
2	GOM_TRA_1PNPDE20071229_042059_000000372064_00362_30476_5637.N1	29-DEC-2007 04:20:59	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30476	No
3	GOM_TRA_1PNPDE20071229_042914_000000332064_00362_30476_5638.N1	29-DEC-2007 04:29:14	Bright	32.500	133	40Zet Her	2.8070	6000.0	65	30476	No
4	GOM_TRA_1PNPDE20071229_043118_000000362064_00362_30476_5639.N1	29-DEC-2007 04:31:18	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	30476	No
5	GOM_TRA_1PNPDE20071229_043657_000000352064_00362_30476_5640.N1	29-DEC-2007 04:36:57	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	30476	No
6	GOM_TRA_1PNPDE20071229_044154_000000372064_00362_30476_5641.N1	29-DEC-2007 04:41:54	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	30476	No
7	GOM_TRA_1PNPDE20071229_044427_000000442064_00362_30476_5642.N1	29-DEC-2007 04:44:27	Twilight	43.500	122	9Alp2Lib	2.7470	9700.0	87	30476	No
8	GOM_TRA_1PNPDE20071229_045004_000000392064_00362_30476_5643.N1	29-DEC-2007 04:50:04	Twilight	38.500	131	Gam Lup	2.8000	26000.	77	30476	No
9	GOM_TRA_1PNPDE20071229_045117_000000382064_00362_30476_5644.N1	29-DEC-2007 04:51:17	Dark	37.500	109	Bet Lup	2.6770	26000.	75	30476	No
10	GOM_TRA_1PNPDE20071229_045244_000000392064_00362_30476_5645.N1	29-DEC-2007 04:52:44	Dark	39.000	78	Alp Lup	2.3040	28000.	78	30476	No
11	GOM_TRA_1PNPDE20071229_045405_000000382064_00362_30476_5646.N1	29-DEC-2007 04:54:05	Dark	38.000	95	Zet Cen	2.5450	26000.	76	30476	No
12	GOM_TRA_1PNPDE20071229_045601_000000462064_00362_30476_5647.N1	29-DEC-2007 04:56:01	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	30476	No
13	GOM_TRA_1PNPDE20071229_045942_000000512064_00363_30477_5648.N1	29-DEC-2007 04:59:42	Dark	51.000	12	Alp1Cru	0.77500	30000.	102	30477	No
14	GOM_TRA_1PNPDE20071229_050443_000000392064_00363_30477_5649.N1	29-DEC-2007 05:04:43	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30477	No
15	GOM_TRA_1PNPDE20071229_050621_000000412064_00363_30477_5650.N1	29-DEC-2007 05:06:21	Dark	40.500	71	lot Car	2.2460	7700.0	81	30477	No
16	GOM_TRA_1PNPDE20071229_050800_000000492064_00363_30477_5651.N1	29-DEC-2007 05:08:00	Dark	48.500	41	Eps Car	1.8600	4100.0	97	30477	No
17	GOM_TRA_1PNPDE20071229_051222_000000482064_00363_30477_5652.N1	29-DEC-2007 05:12:22	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	30477	No
18	GOM_TRA_1PNPDE20071229_051807_000000412064_00363_30477_5653.N1	29-DEC-2007 05:18:07	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30477	No
19	GOM_TRA_1PNPDE20071229_052247_000000412064_00363_30477_5654.N1	29-DEC-2007 05:22:47	Straylight	40.500	101	11Alp Lep	2.5820	7000.0	81	30477	No
20	GOM_TRA_1PNPDE20071229_052540_000000462064_00363_30477_5655.N1	29-DEC-2007 05:25:40	Straylight	46.000	7	19Bet Ori	0.10000	14000.	92	30477	No
21	GOM_TRA_1PNPDE20071229_052736_000000442064_00363_30477_5656.N1	29-DEC-2007 05:27:36	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	30477	No
22	GOM_TRA_1PNPDE20071229_052949_000000432064_00363_30477_5657.N1	29-DEC-2007 05:29:49	Twilight	43.000	27	24Gam Ori	1.6360	26000.	86	30477	No
23	GOM_TRA_1PNPDE20071229_053251_000000522064_00363_30477_5658.N1	29-DEC-2007 05:32:51	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30477	No
24	GOM_TRA_1PNPDE20071229_053413_000000412064_00363_30477_5659.N1	29-DEC-2007 05:34:13	Bright	41.000	176	23Zet Tau	3.0200	22000.	82	30477	No
25	GOM_TRA_1PNPDE20071229_053619_000000402064_00363_30477_5660.N1	29-DEC-2007 05:36:19	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	30477	No
26	GOM_TRA_1PNPDE20071229_053940_000000342064_00363_30477_5661.N1	29-DEC-2007 05:39:40	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30477	No
27	GOM_TRA_1PNPDE20071229_054114_000000432064_00363_30477_5662.N1	29-DEC-2007 05:41:14	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	30477	No
28	GOM_TRA_1PNPDE20071229_055319_000000362064_00363_30477_5663.N1	29-DEC-2007 05:53:19	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30477	No

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



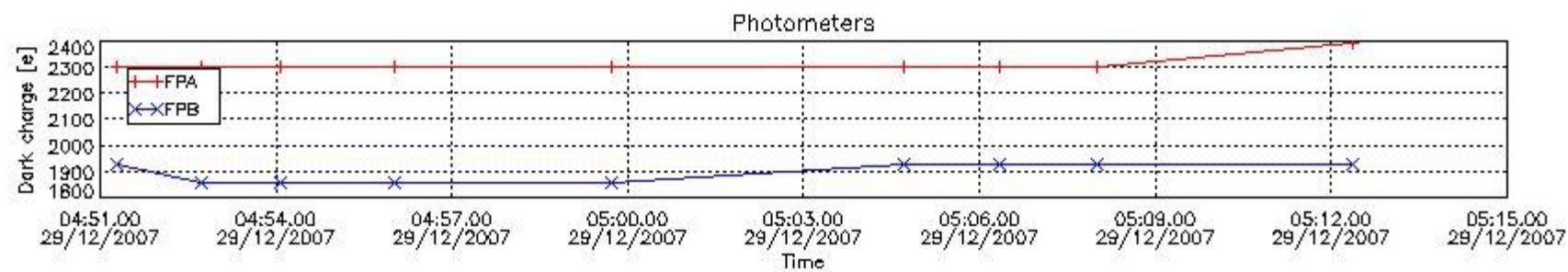
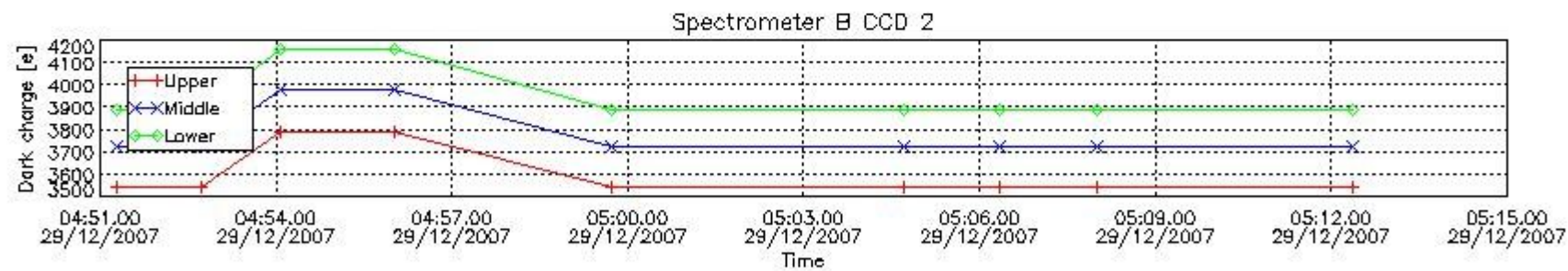
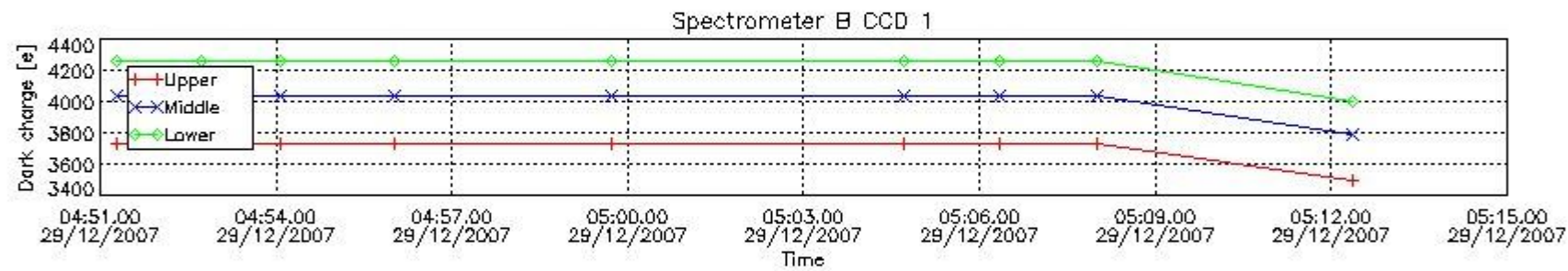
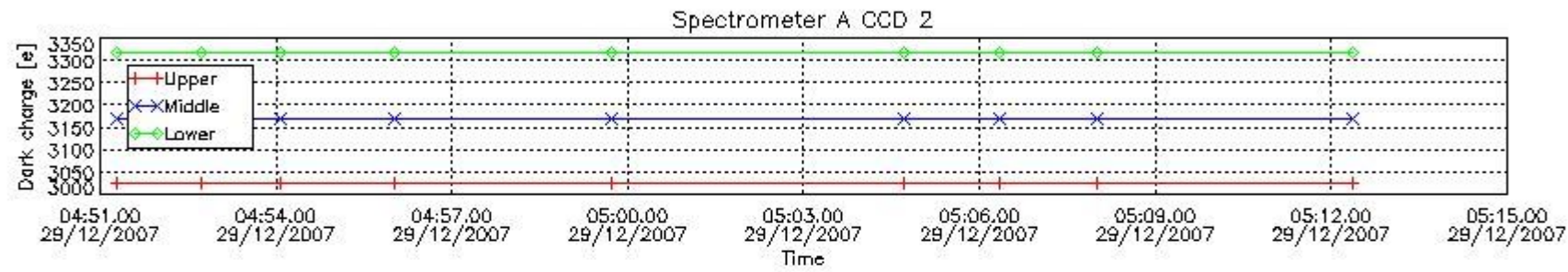
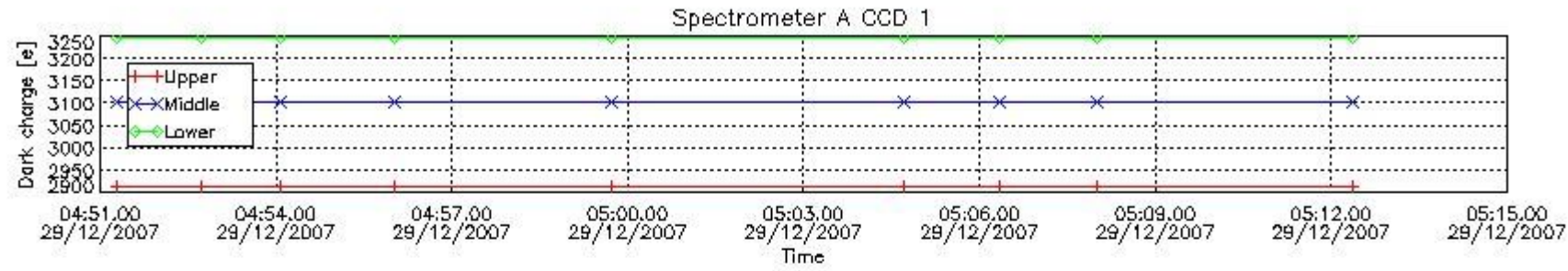
4. Overview of dark signal processing per product

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



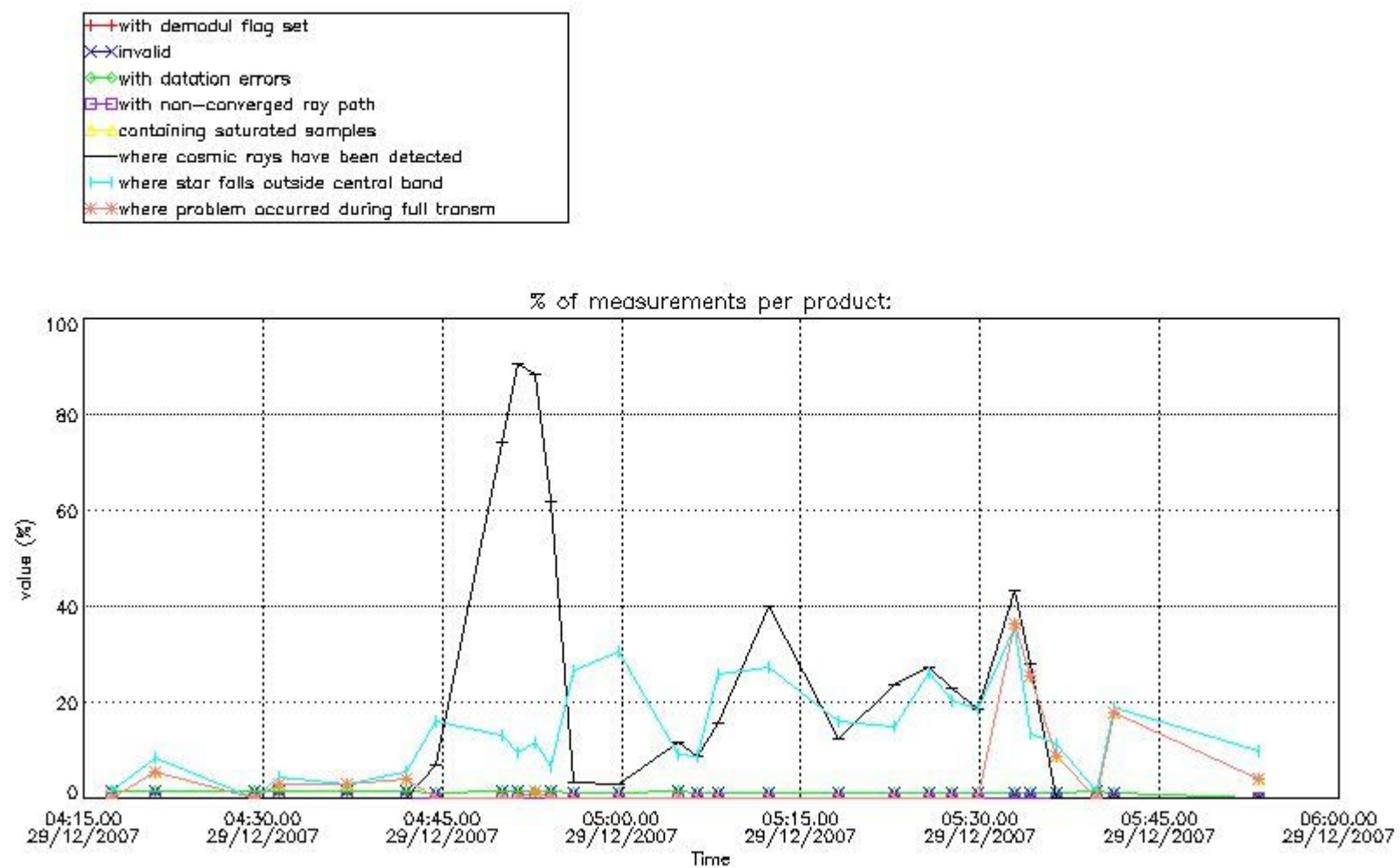
5. Demodulation flag and quality information monitoring

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.

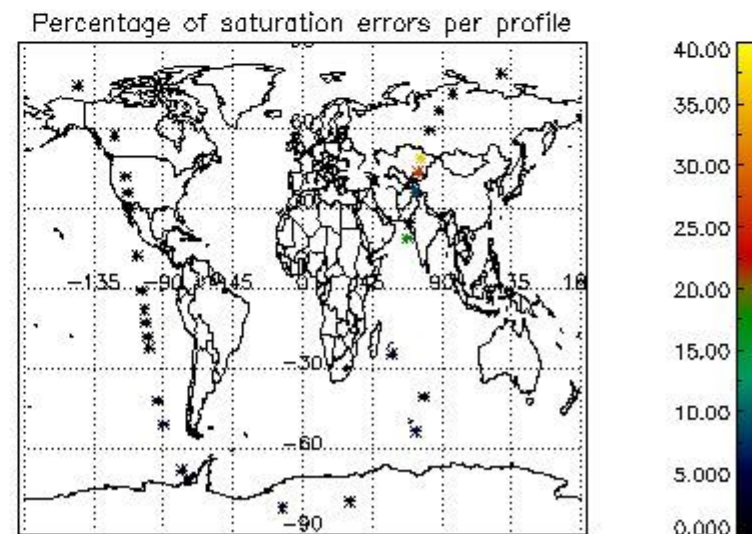
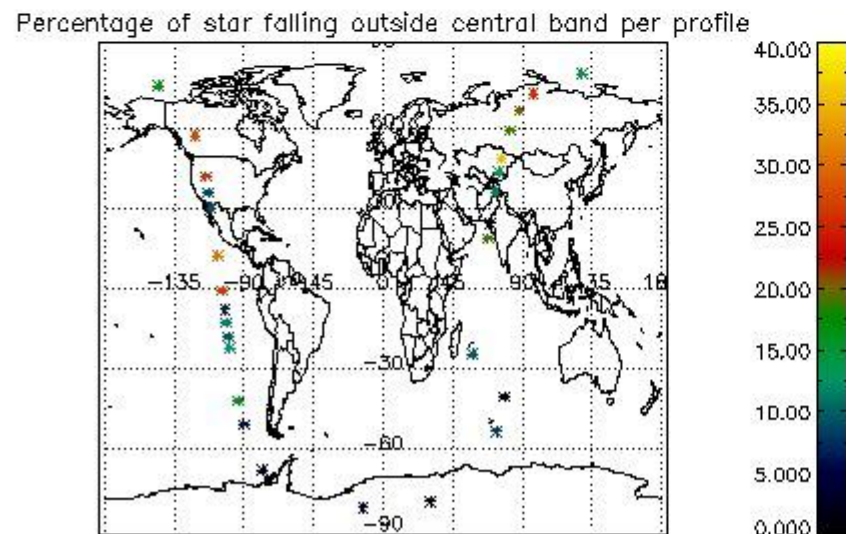
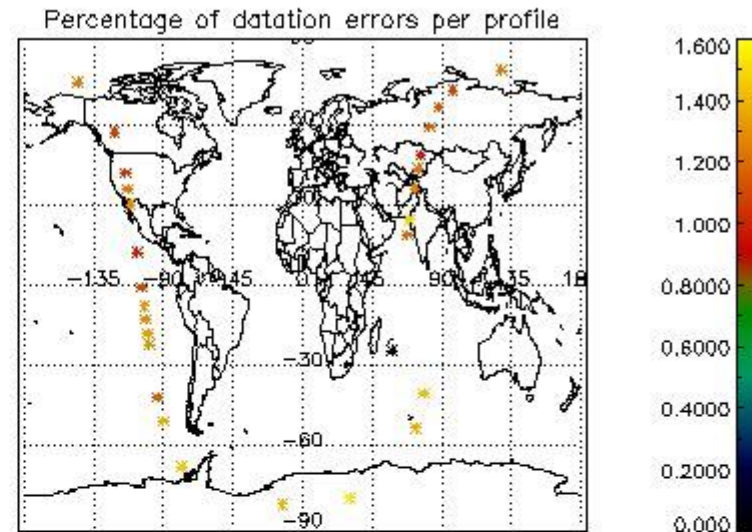
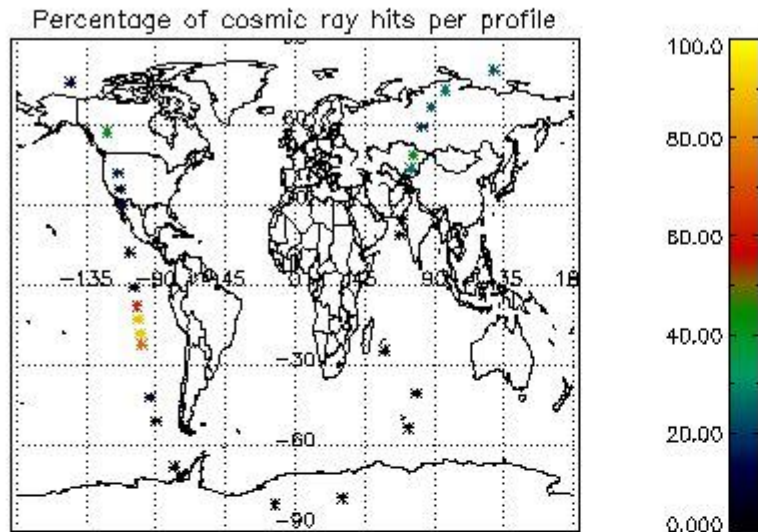
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.4286 %
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)



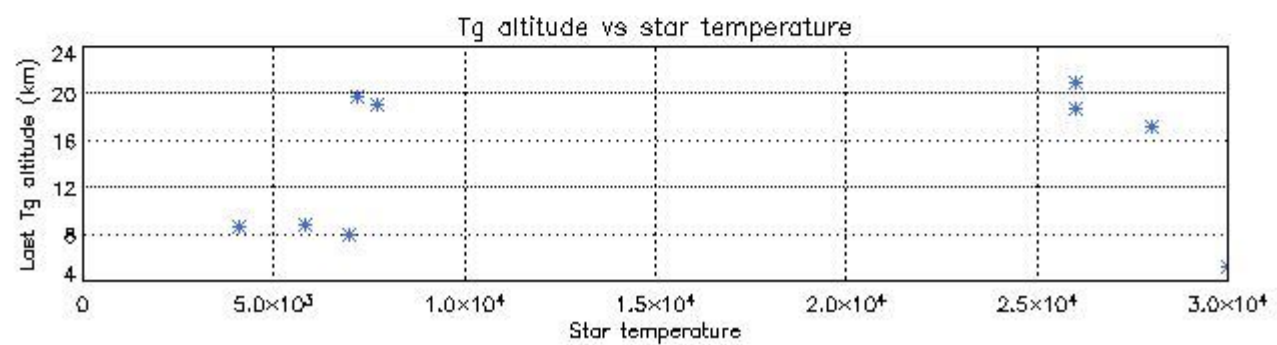
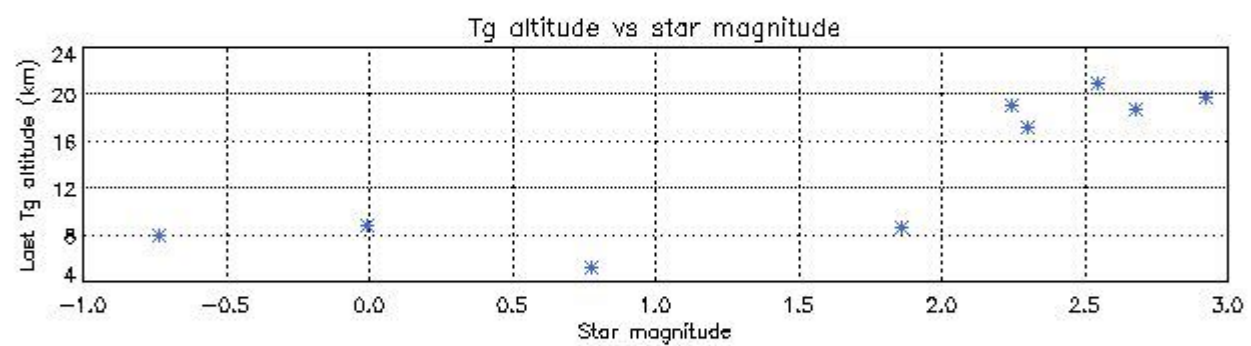
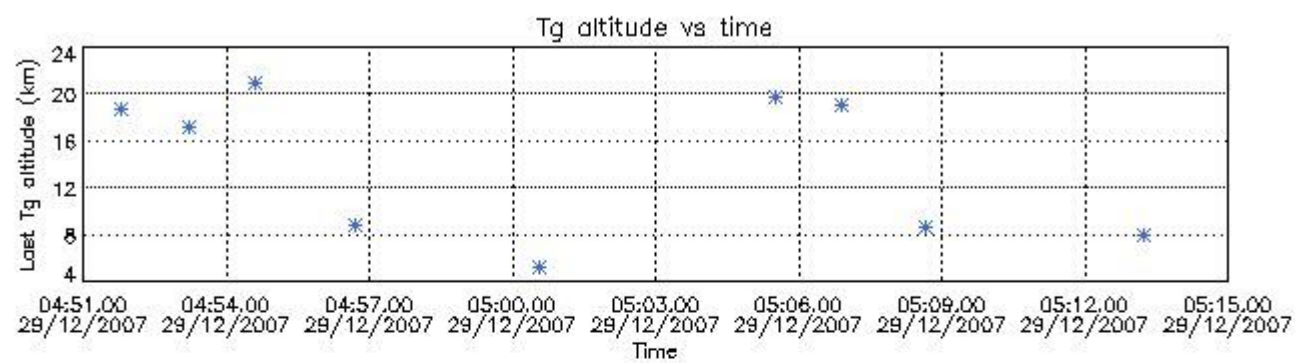
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.025	19.682	15.760
St. deviation:	6.2171	6.4258	0.0000
Maximum:	20.983	27.021	15.760
Minimum:	5.2630	4.2616	15.760
Number of data:	9.0000	12.000	1.0000

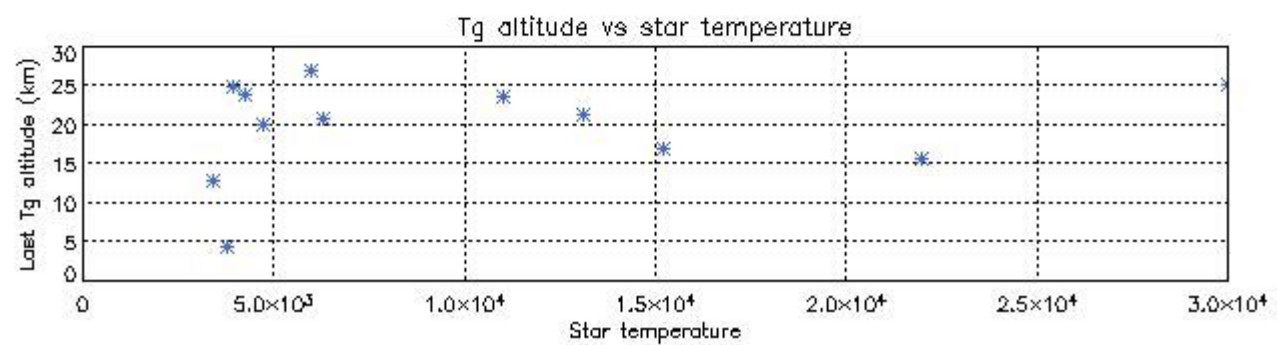
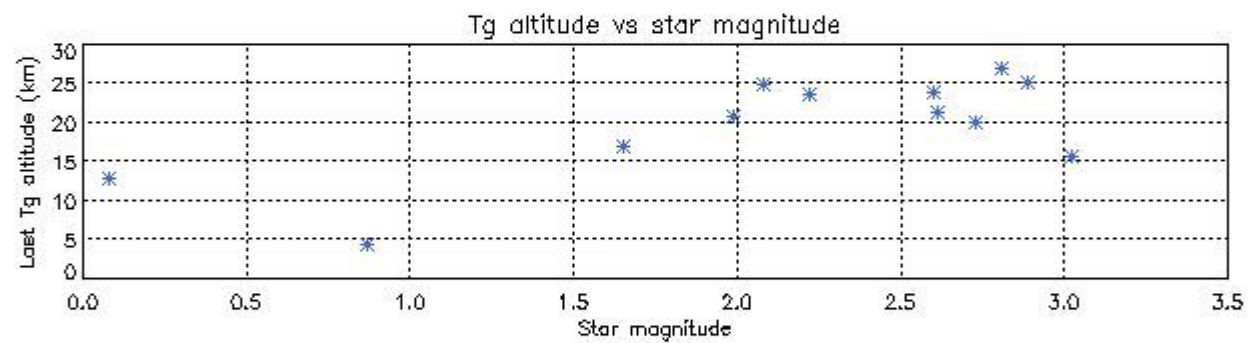
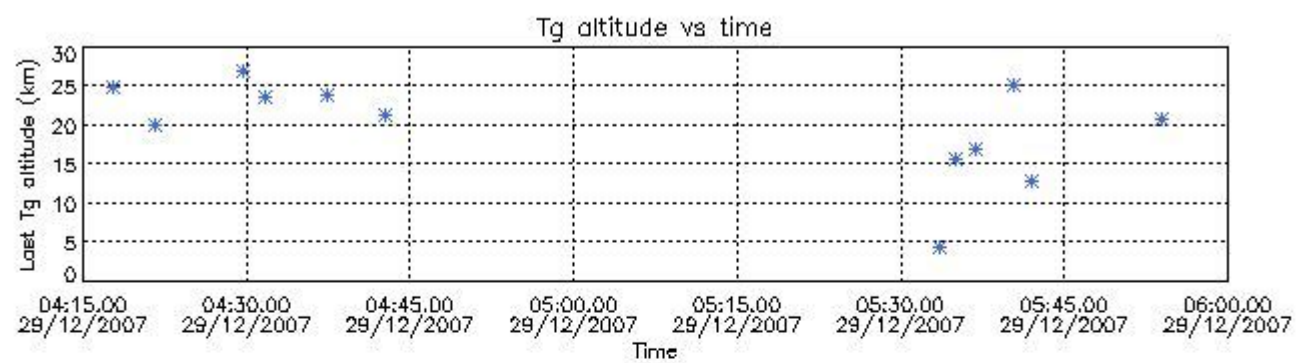
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



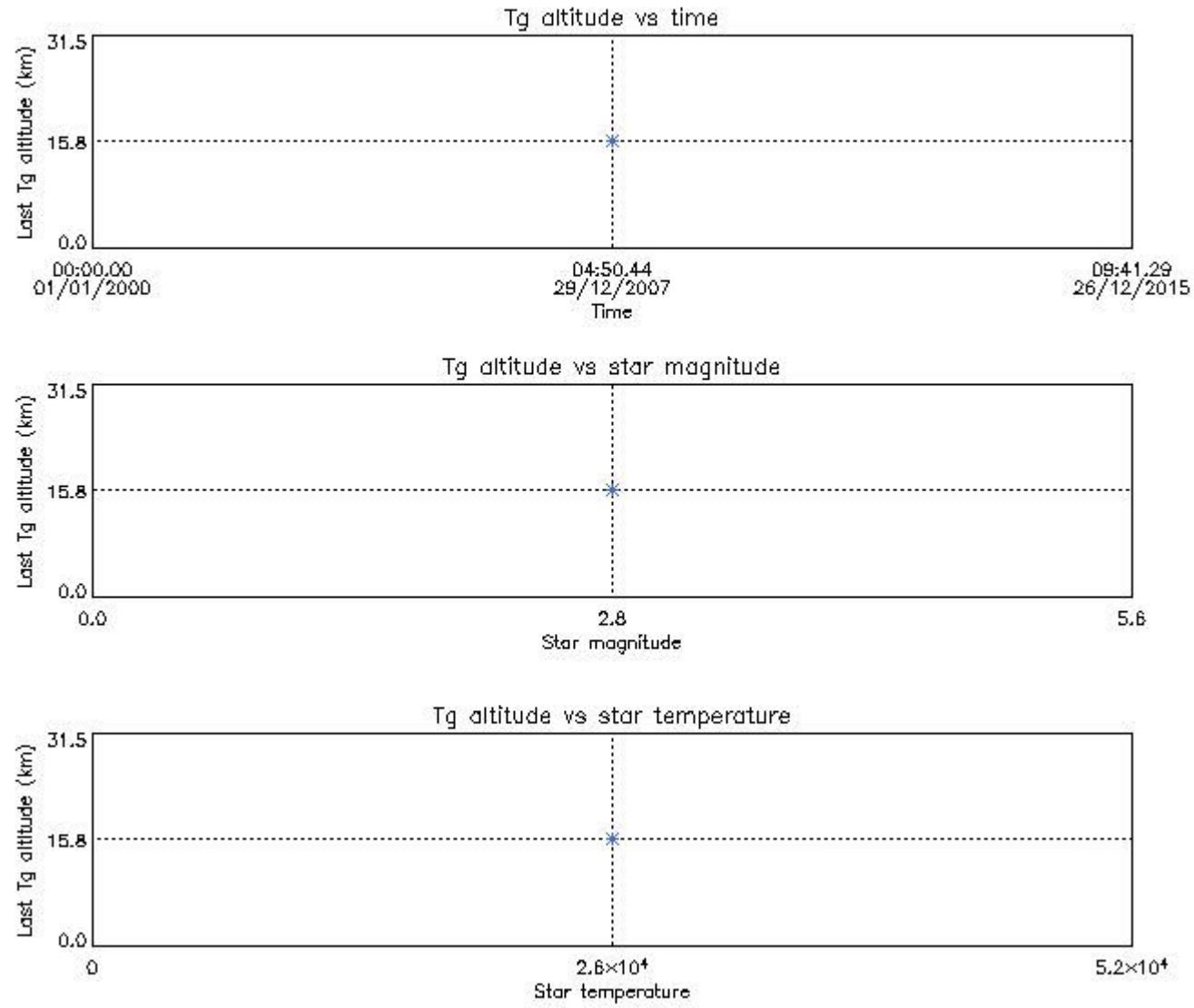
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

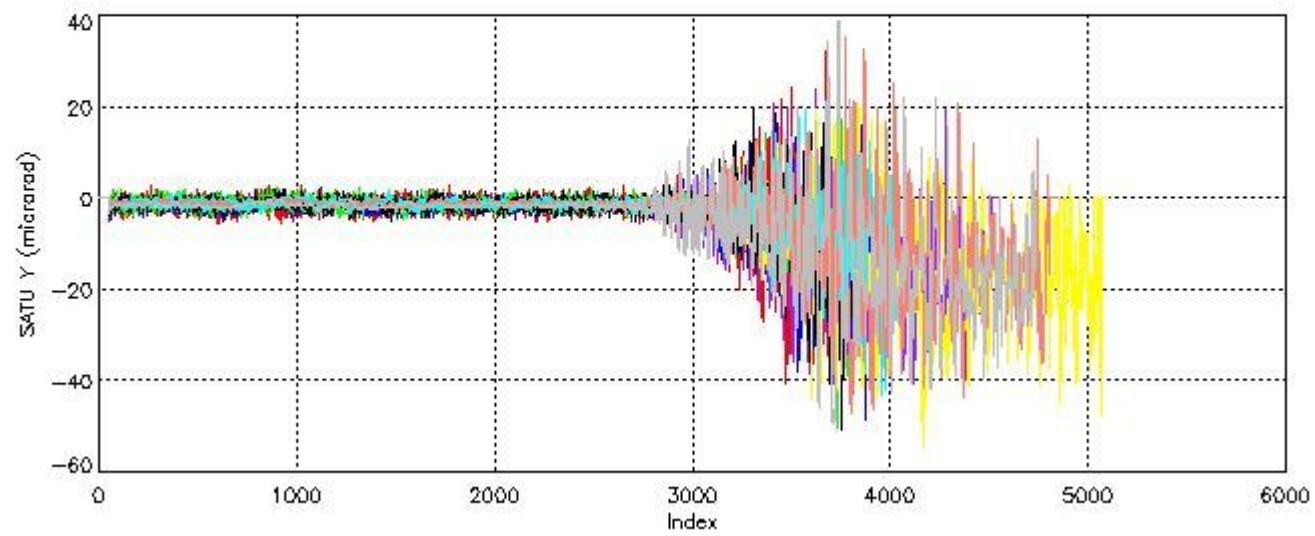
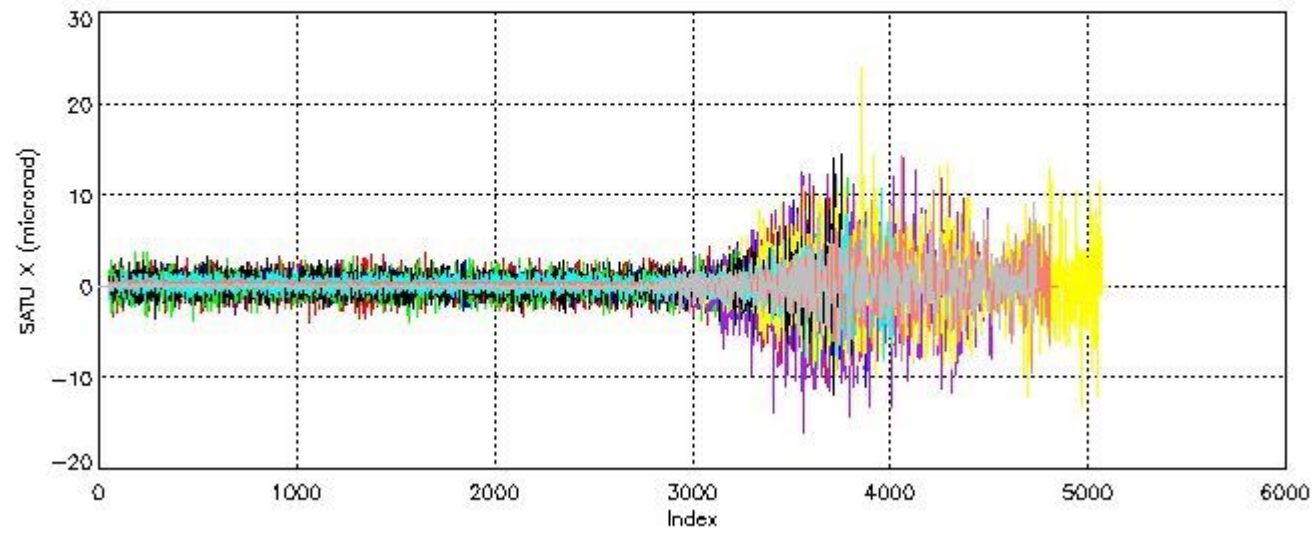


7. Star Acquisition and Tracking Unit (SATU)

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:	0.099076	-1.3523	0.054457	-1.3600
St. deviation:	0.58149	0.81713	0.75603	1.0179
Maximum:	3.7000	2.7000	6.1000	4.5000
Minimum:	-3.7000	-5.8000	-4.8000	-7.6000

Number of data:	7950.0	7950.0	9950.0	9950.0
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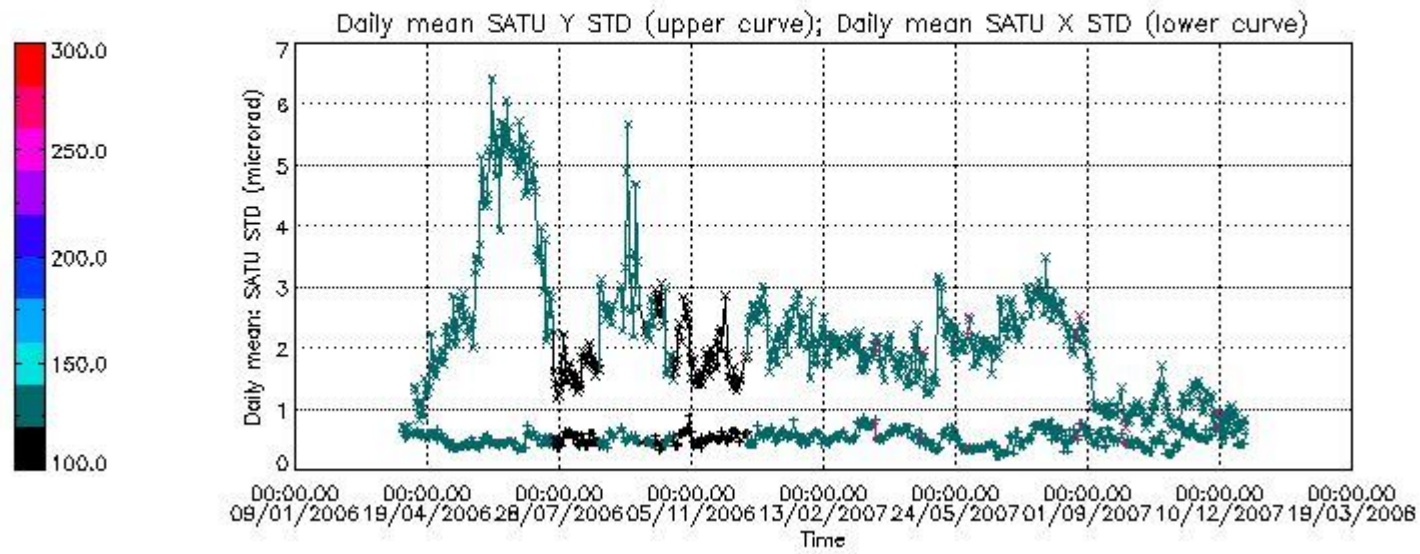
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

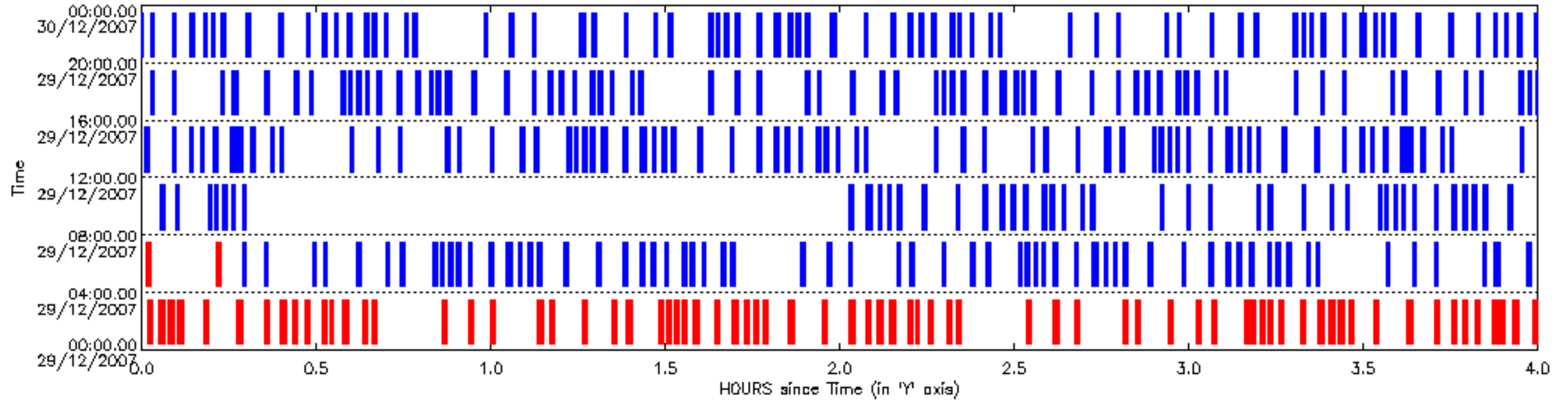
Lower curve: STD of SATU X axis

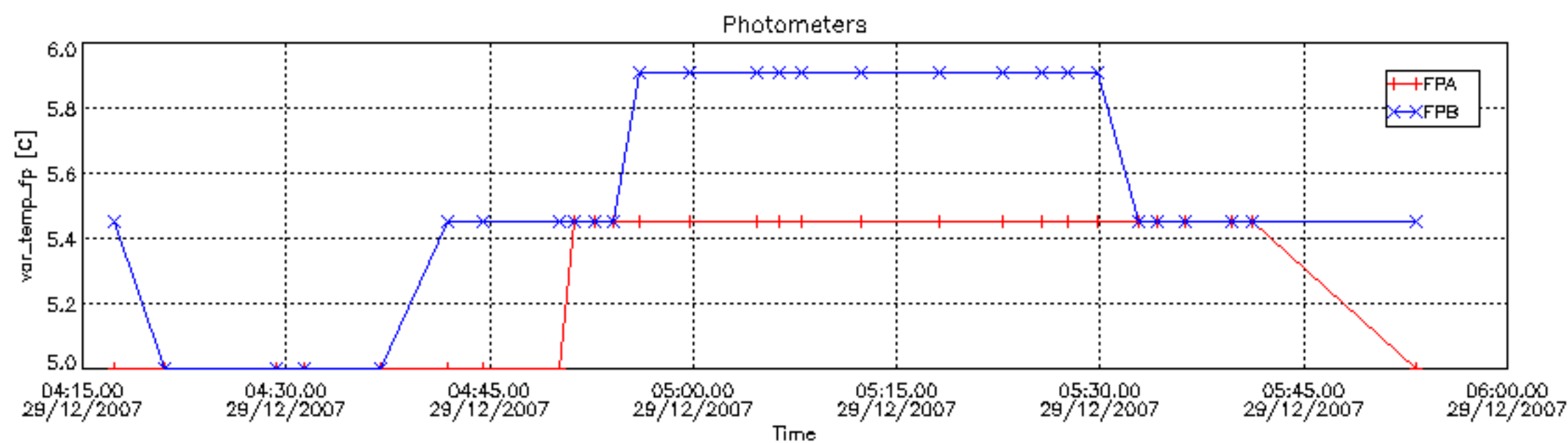
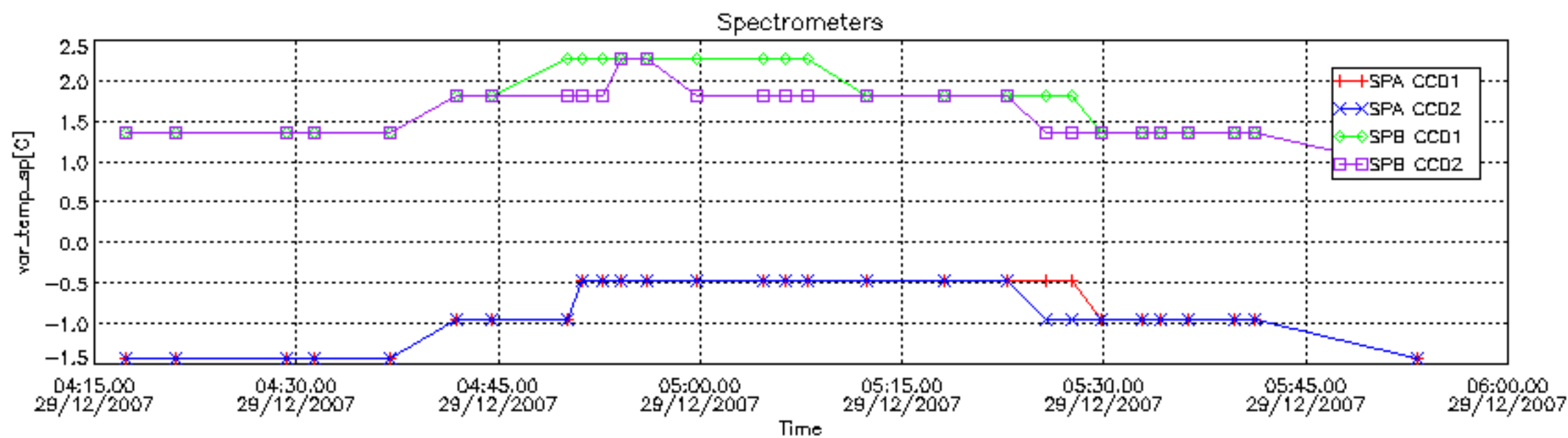


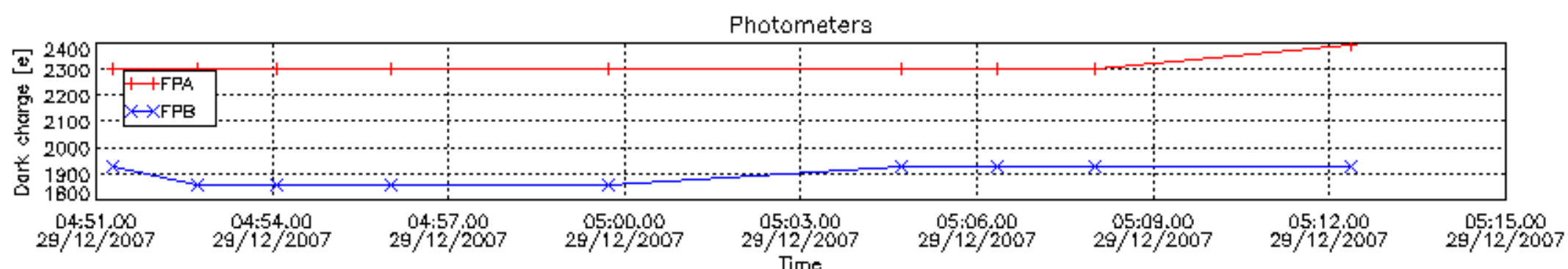
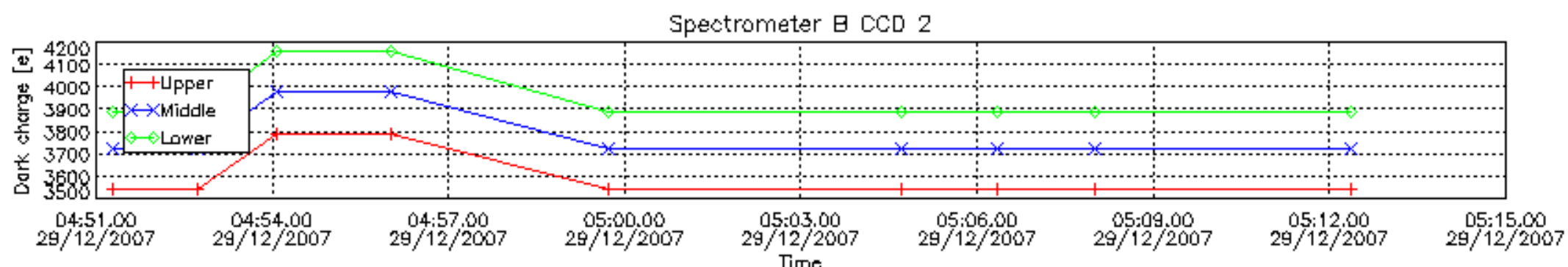
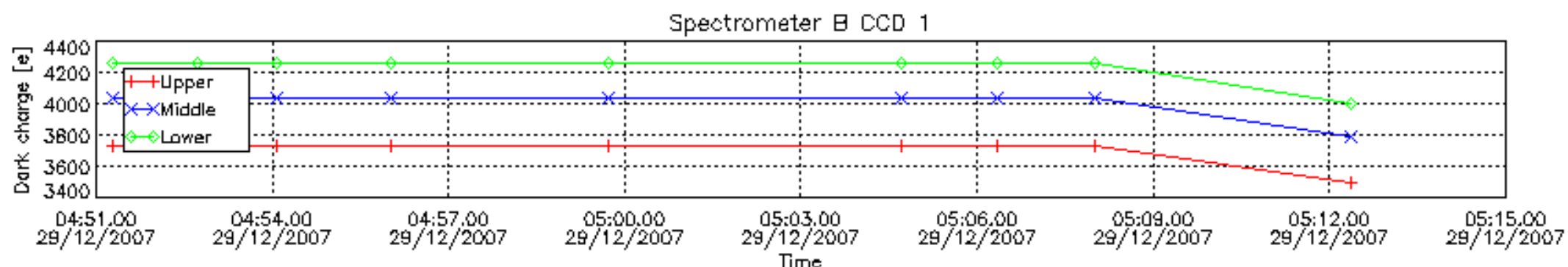
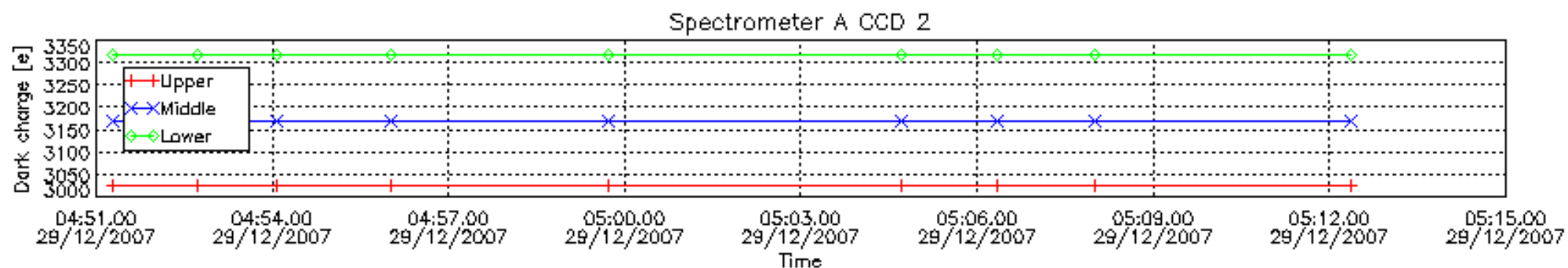
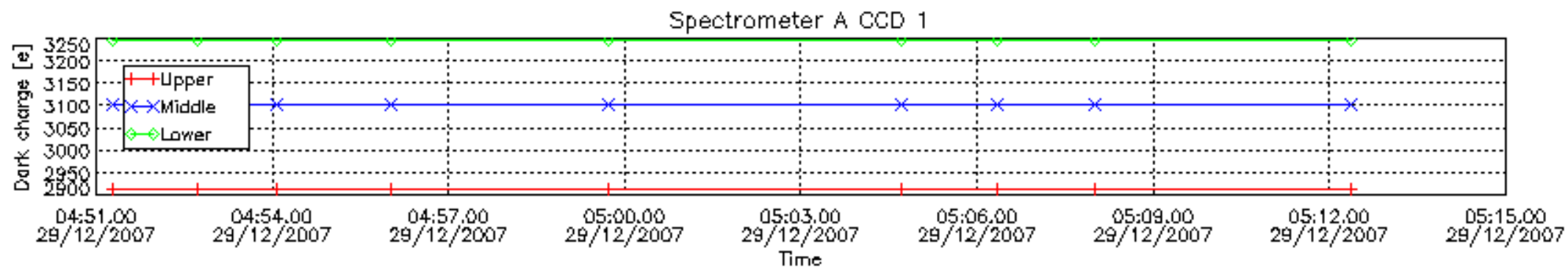
8. Auxiliary Data Files used for the production reported in section 2.4

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.

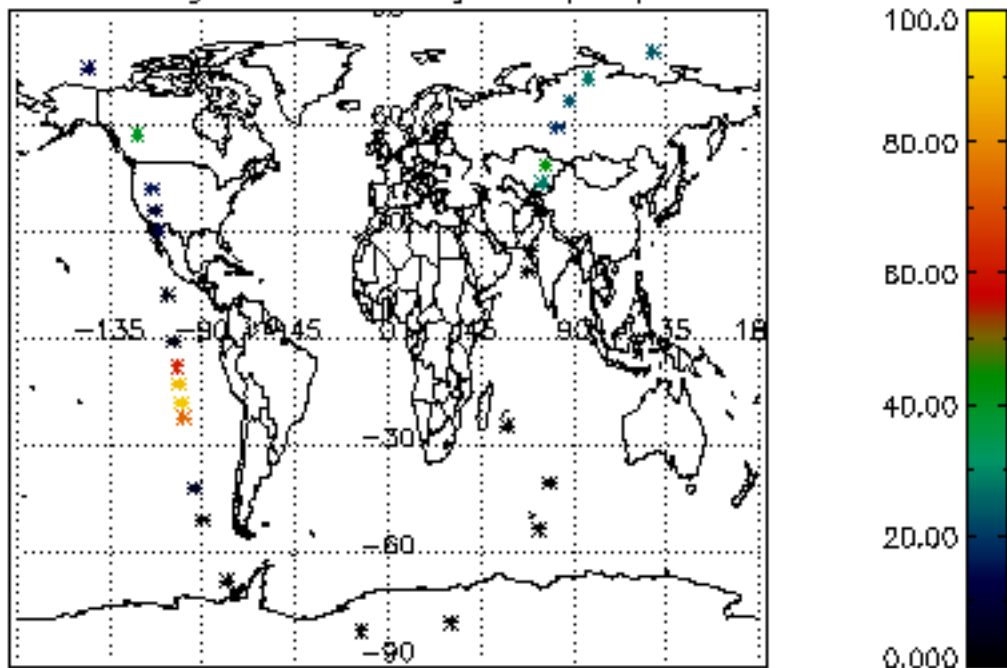
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-DEC-2007 04:17:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	29-DEC-2007 04:17:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-DEC-2007 04:17:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-DEC-2007 04:17:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-DEC-2007 04:17:16
ECMWF_FILE	AUX_ECF_AXNECM20071228_193111_20071229_030000_20071229_150000	1	29-DEC-2007 04:17:16
OPTIONAL_ECMWF_FILE	MISSING	1	29-DEC-2007 04:17:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071229_041429_000057382064_00362_30476_4843.N1	1	29-DEC-2007 04:17:16



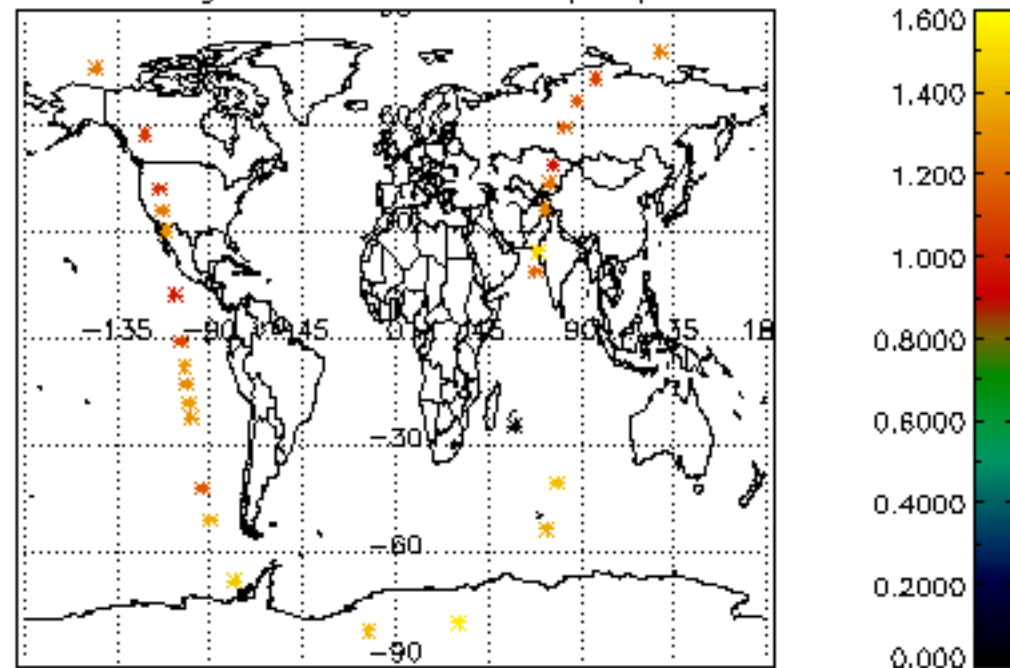




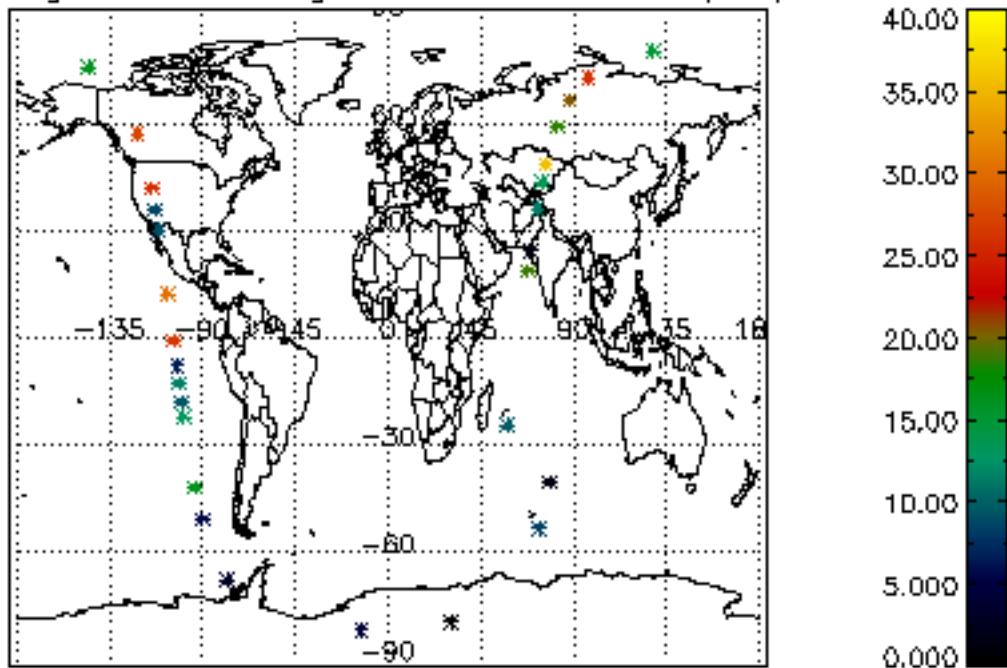
Percentage of cosmic ray hits per profile



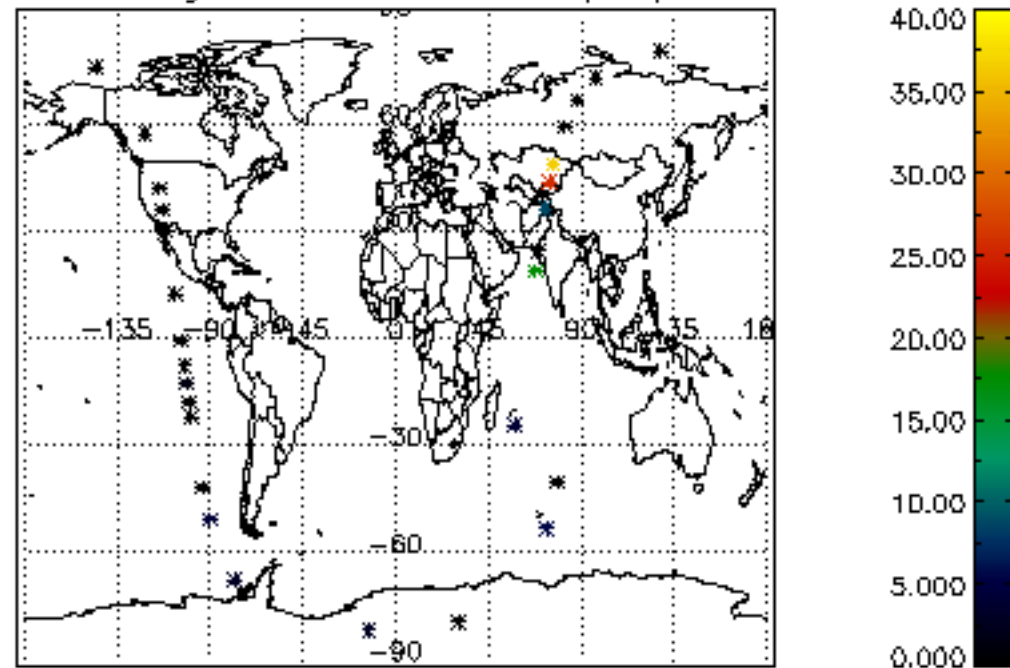
Percentage of datation errors per profile



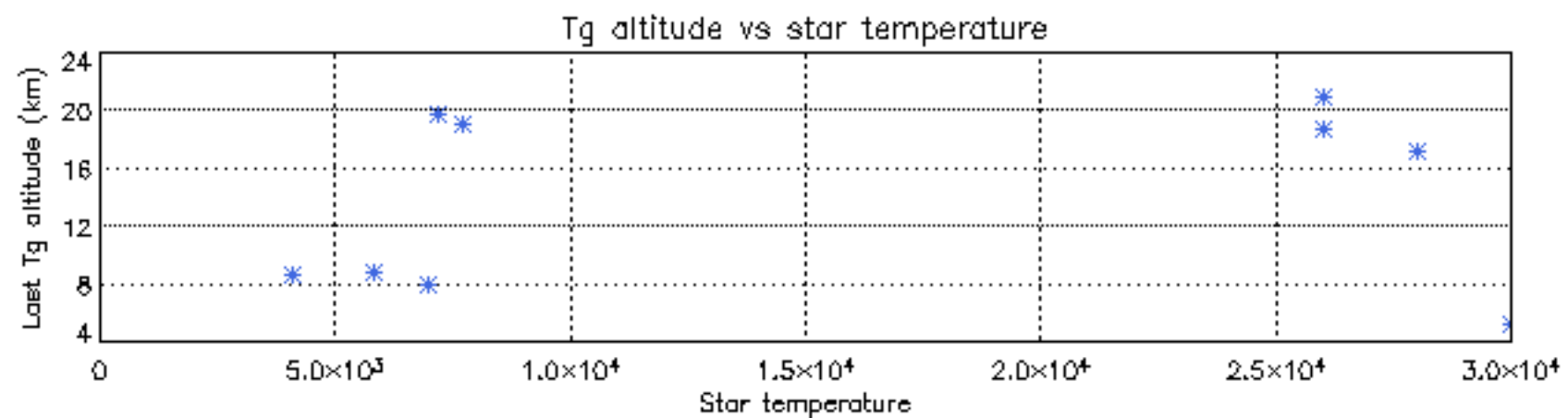
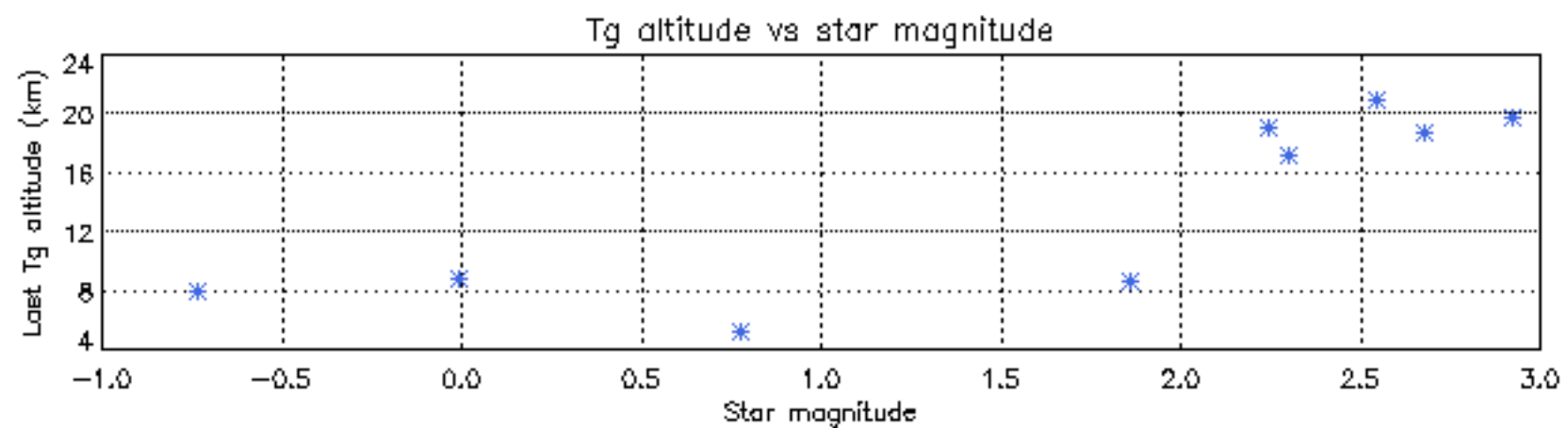
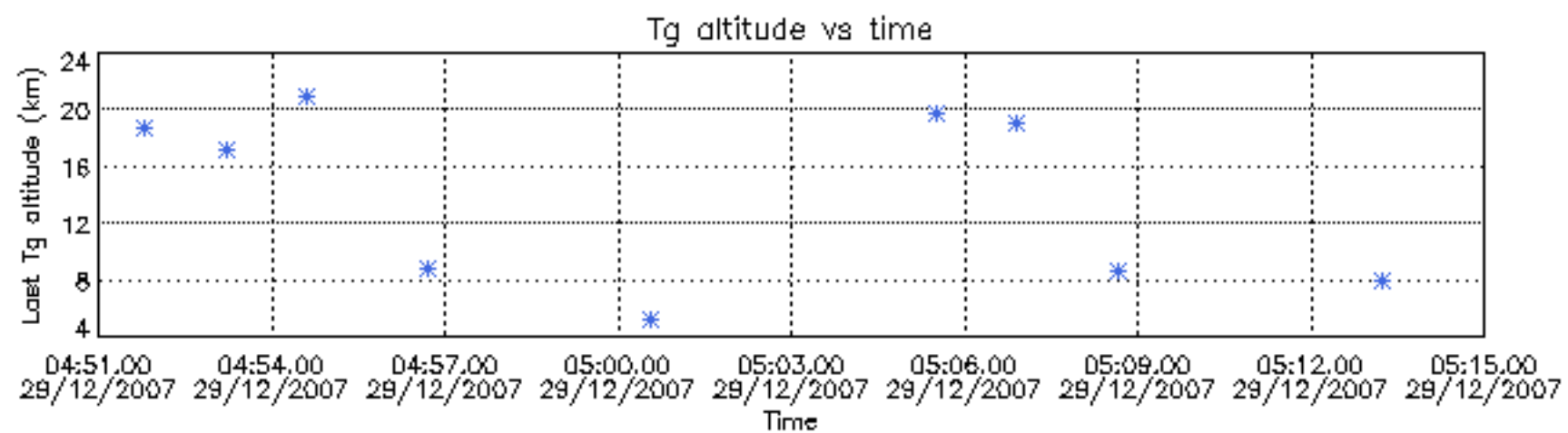
Percentage of star falling outside central band per profile



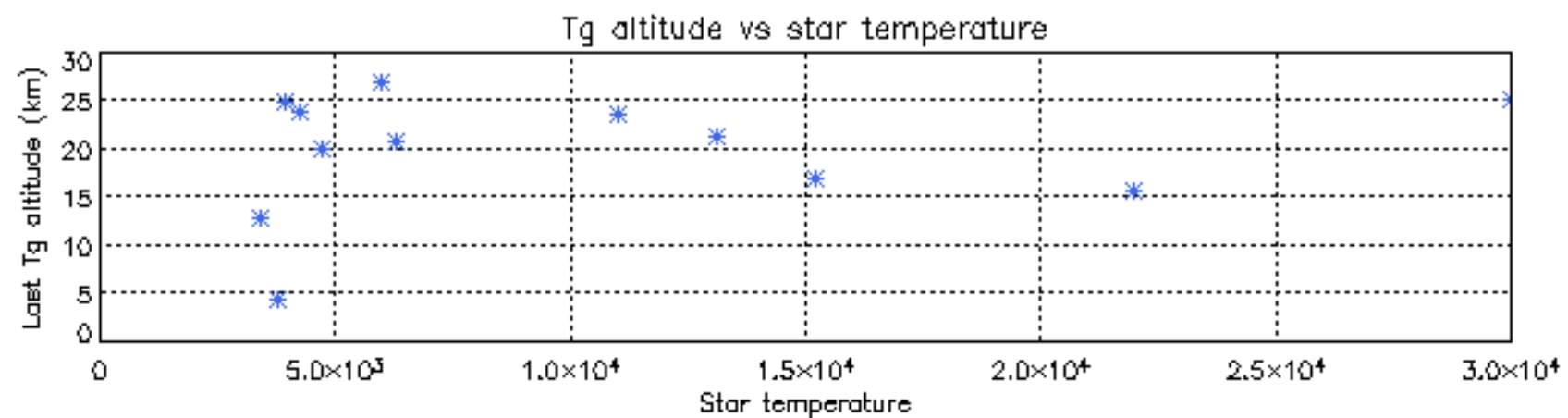
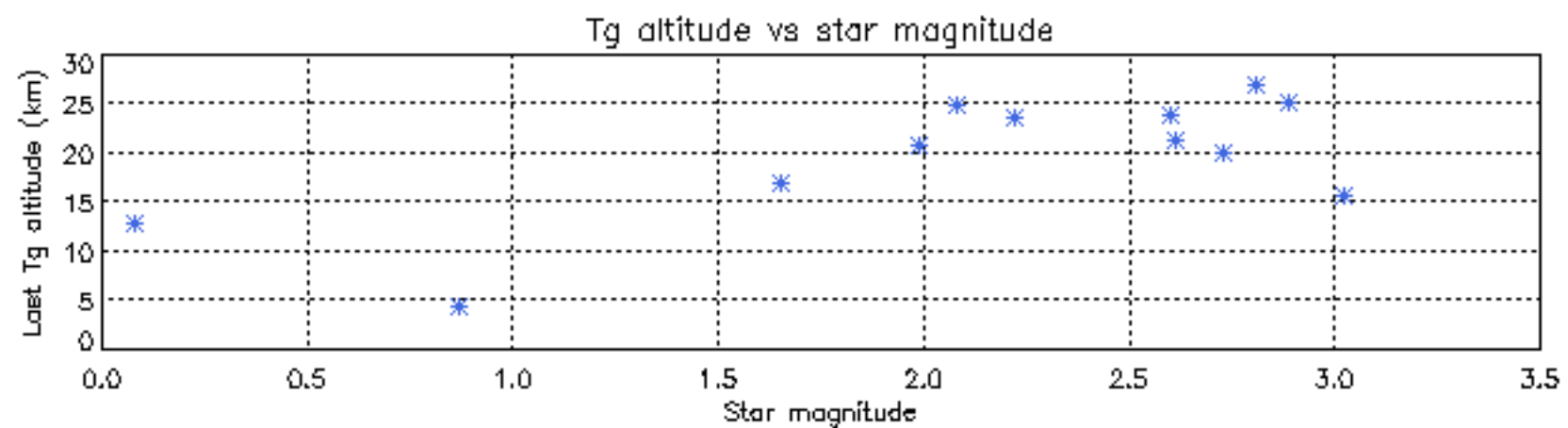
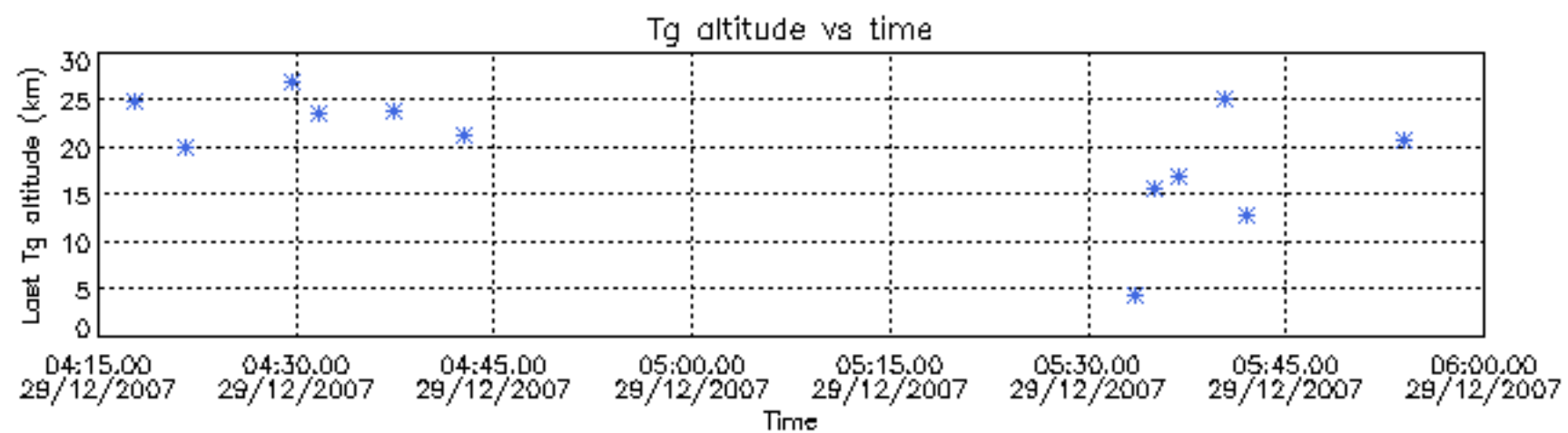
Percentage of saturation errors per profile



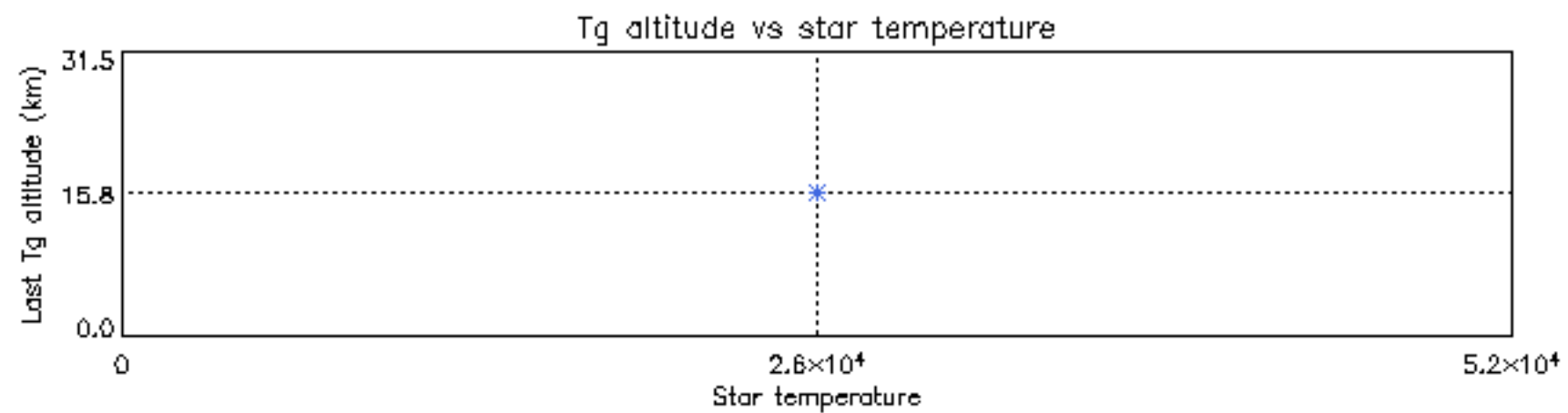
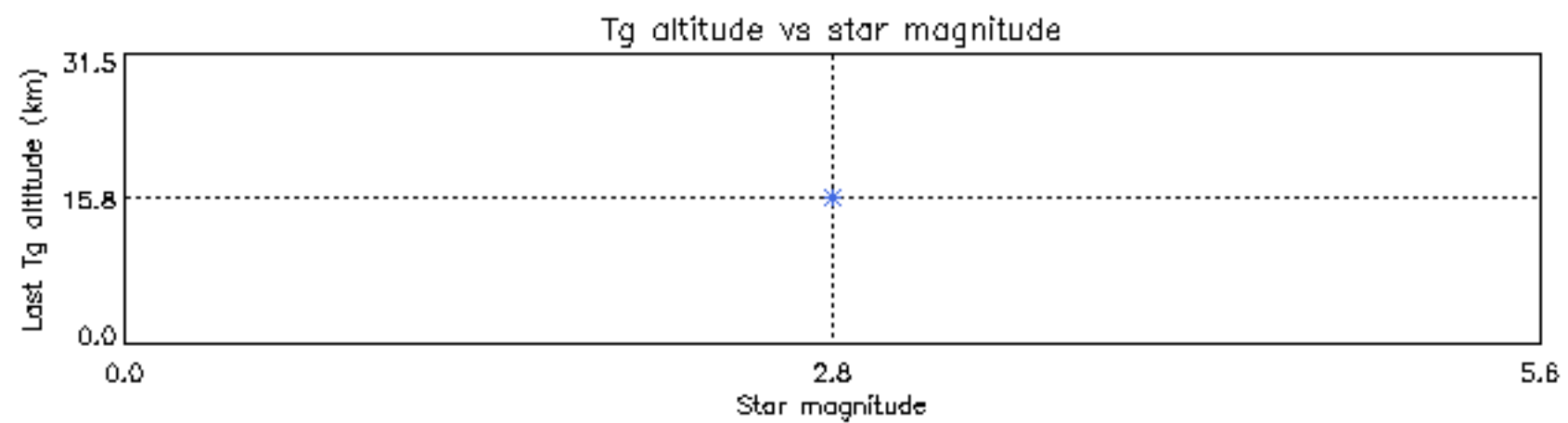
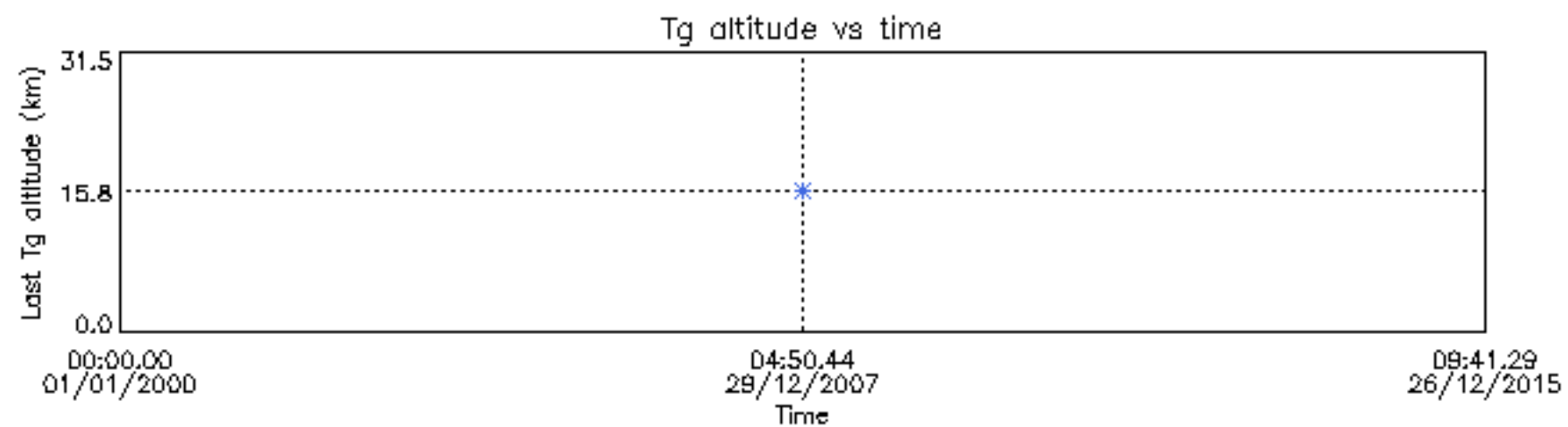
Tangent altitude at which the star is lost

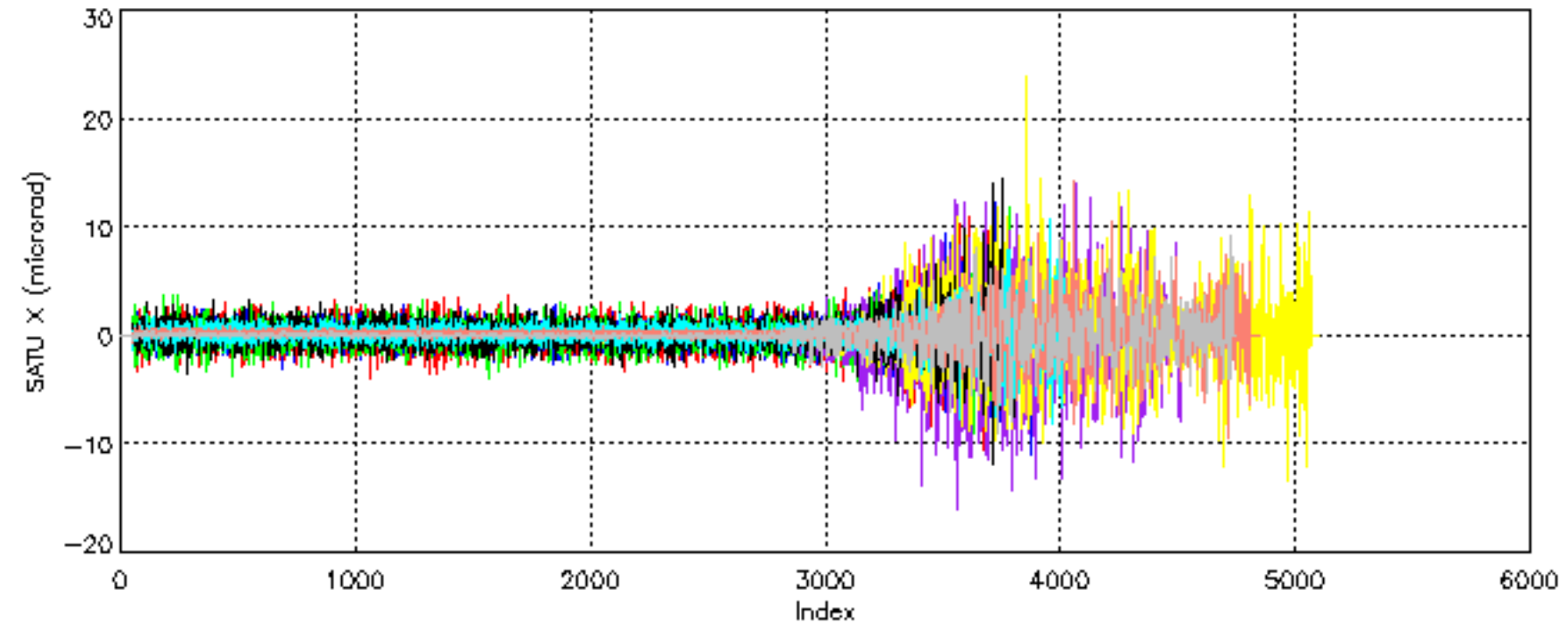


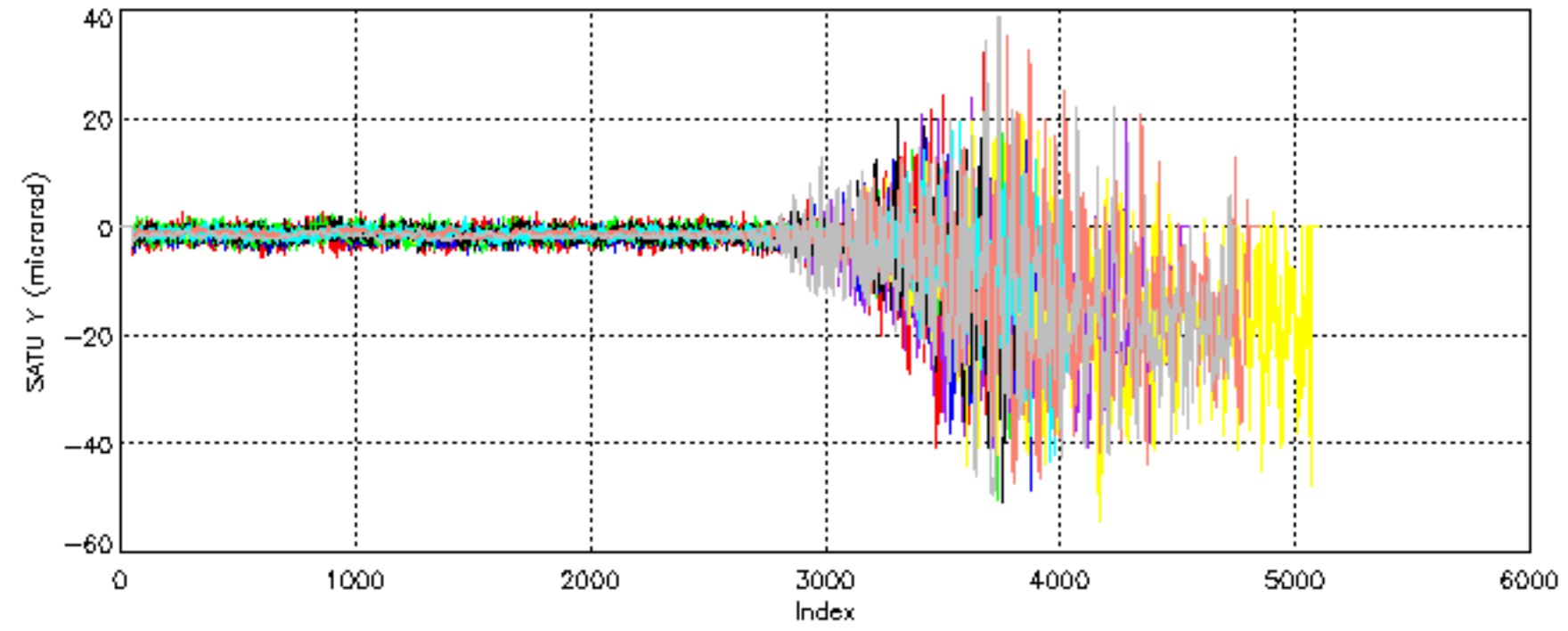
Tangent altitude at which the star is lost

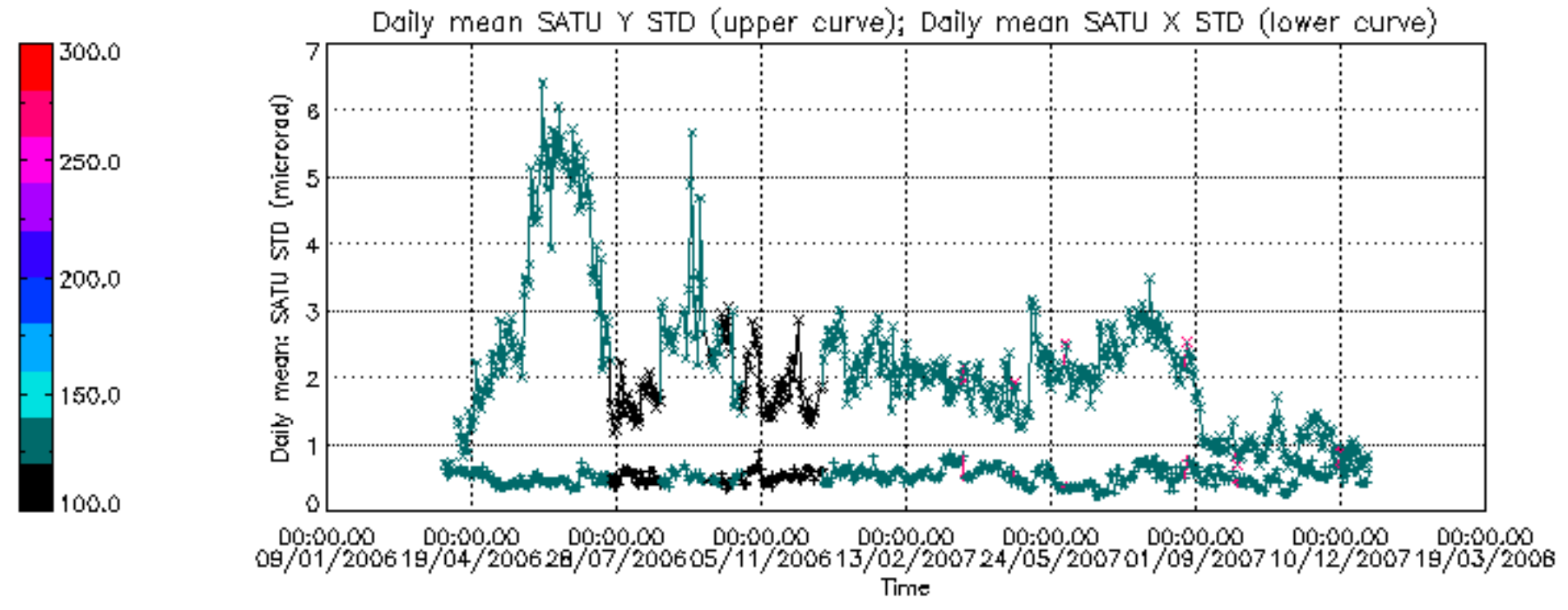


Tangent altitude at which the star is lost









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 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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 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
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 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
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24; 2818.5; 01-DEC-2007 07:03:42; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;30077
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 7; -829.8; 01-DEC-2007 07:43:29; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;30077
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 17; 5618.9; 11-DEC-2007 19:20:12; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;30227
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 17; 5720.4; 27-DEC-2007 15:57:50; Dark ; 49.5; 54; 5The Cen ; 2.06; 4500;occ; 99; 0;30454
 18; 5815.0; 27-DEC-2007 15:59:25; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30454
 19; 5892.2; 27-DEC-2007 16:00:42; Dark ; 38.0; 95; Zet Cen ; 2.55; 26000;occ; 76; 0;30454
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 21; 6231.1; 27-DEC-2007 16:06:21; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30454
 22; 6415.3; 27-DEC-2007 16:09:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30454
 23; 6531.7; 27-DEC-2007 16:11:21; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30454
 24; 6628.4; 27-DEC-2007 16:12:58; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30454
 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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 5; 2013.0; 27-DEC-2007 16:36:39; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30455
 6; 2192.7; 27-DEC-2007 16:39:38; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;30455
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 11; 3697.1; 27-DEC-2007 17:04:43; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30455
 12; 3917.7; 27-DEC-2007 17:08:23; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30455
 13; 4410.5; 27-DEC-2007 17:16:36; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30455
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 15; 4871.7; 27-DEC-2007 17:24:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30455
 16; 5166.2; 27-DEC-2007 17:29:12; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30455
 17; 5316.6; 27-DEC-2007 17:31:42; Dark ; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 0;30455
 18; 5721.0; 27-DEC-2007 17:38:27; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;30455
 19; 5815.4; 27-DEC-2007 17:40:01; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30455
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 21; 6015.5; 27-DEC-2007 17:43:21; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;30455
 22; 6231.5; 27-DEC-2007 17:46:57; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30455
 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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 6; 2013.0; 27-DEC-2007 18:17:15; Dark ; 44.5; 27; 24Gam Ori ; 1.64; 26000;occ; 89; 0;30456
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 11; 2782.9; 27-DEC-2007 18:30:05; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30456
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 13; 3697.0; 27-DEC-2007 18:45:19; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30456
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 16; 4533.8; 27-DEC-2007 18:59:15; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30456
 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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 19; 5317.0; 27-DEC-2007 19:12:19; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 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
 24; 6231.9; 27-DEC-2007 19:27:34; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30456
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 27; 6629.5; 27-DEC-2007 19:34:11; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30456
 28; 6730.8; 27-DEC-2007 19:35:52; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30456
 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
 12; 1588.4; 27-DEC-2007 23:11:58; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30459
 13; 1762.0; 27-DEC-2007 23:14:51; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 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
 16; 2193.0; 27-DEC-2007 23:22:02; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30459
 17; 2404.8; 27-DEC-2007 23:25:34; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;30459
 18; 2600.3; 27-DEC-2007 23:28:50; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30459
 19; 2700.5; 27-DEC-2007 23:30:30; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30459
 20; 2783.5; 27-DEC-2007 23:31:53; Bright; 35.5; 35; 33Alp Per ; 1.79; 6250;occ; 71; 0;30459
 21; 3422.9; 27-DEC-2007 23:42:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30459
 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
 24; 4411.1; 27-DEC-2007 23:59:01; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30459
 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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 5; 197.4; 28-DEC-2007 00:29:23; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30460
 6; 380.8; 28-DEC-2007 00:32:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30460
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 8; 595.0; 28-DEC-2007 00:36:00; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30460
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 11; 1307.3; 28-DEC-2007 00:47:53; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30460
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 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460
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 15; 2012.8; 28-DEC-2007 00:59:38; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;30460
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 19; 2700.3; 28-DEC-2007 01:11:06; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30460
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 21; 3423.0; 28-DEC-2007 01:23:08; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30460
 22; 3696.6; 28-DEC-2007 01:27:42; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;30460
 23; 3918.0; 28-DEC-2007 01:31:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30460
 24; 4411.3; 28-DEC-2007 01:39:37; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30460
 25; 4534.5; 28-DEC-2007 01:41:40; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30460
 26; 4873.0; 28-DEC-2007 01:47:18; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30460

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5; -140.4; 28-DEC-2007 02:04:21; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;30460
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7; 197.9; 28-DEC-2007 02:09:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30461
8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461
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5; -1162.3; 28-DEC-2007 05:08:31; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30462
6; -867.2; 28-DEC-2007 05:13:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30462
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13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463
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19; 1589.2; 28-DEC-2007 05:54:22; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30463
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