

GOMOS Daily Report 10-DEC-2007

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	13DEC2007 10:13:26
Data source version	GOMOS/5.00
Start time of products	10-12-2007 (10DEC2007 00:00:00)
Stop time of products	11-12-2007 (11DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

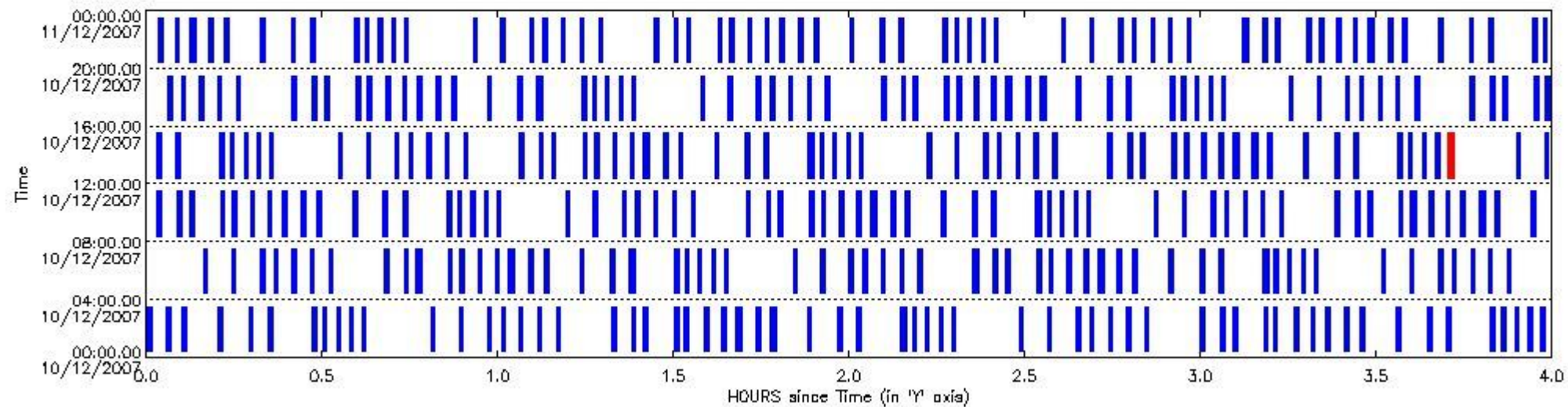
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

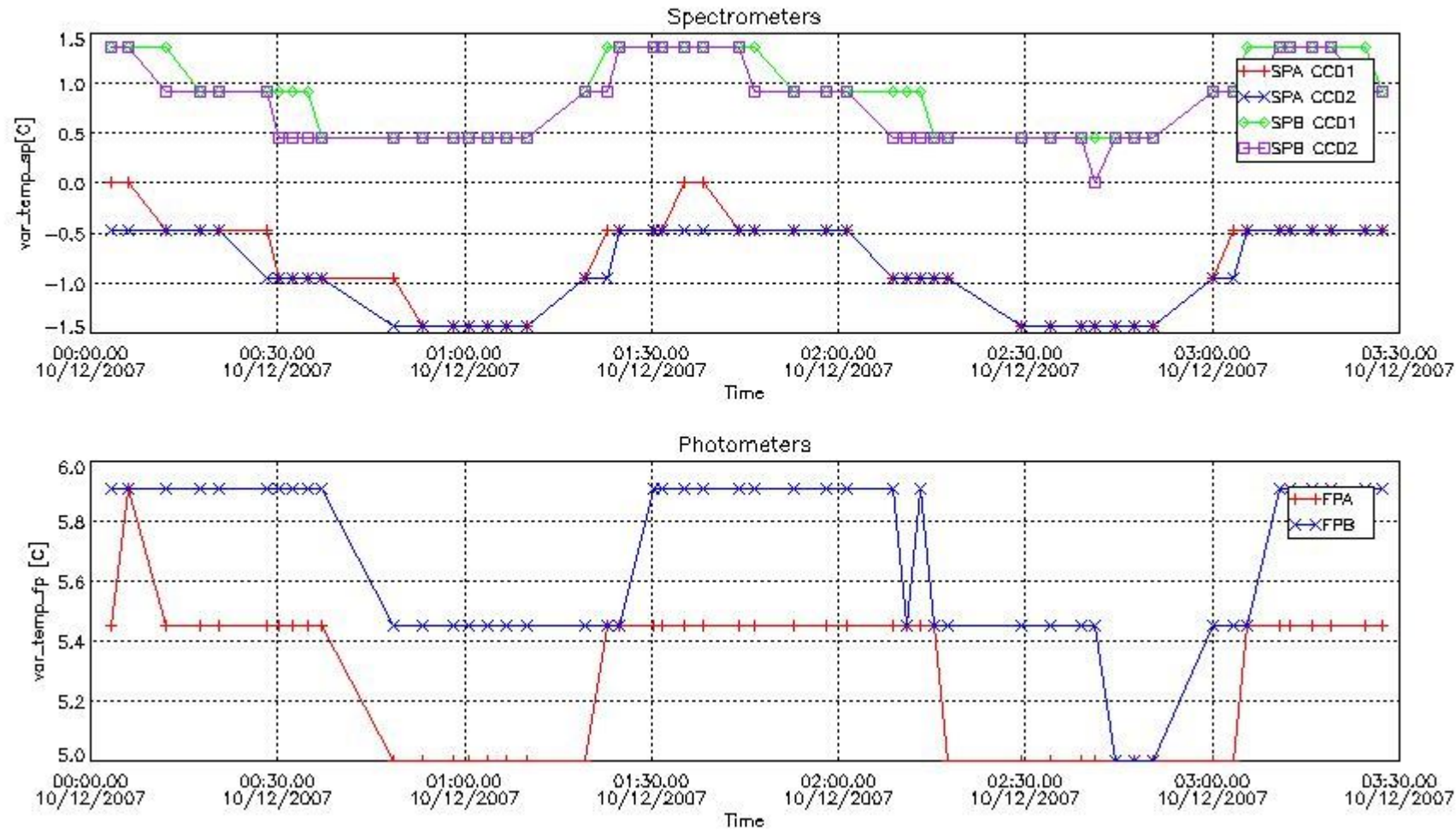
UTC start time	Star name	Star ID	Orbit
10-DEC-2007 15:42:20	39DelPer	175	30211

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_1PNPDE20071210_000322_000000472064_00088_30202_0250.N1	10-DEC-2007 00:03:22	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	30202	No
2	GOM_TRA_1PNPDE20071210_000600_000000492064_00088_30202_0251.N1	10-DEC-2007 00:06:00	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	30202	No
3	GOM_TRA_1PNPDE20071210_001212_000000432064_00088_30202_0252.N1	10-DEC-2007 00:12:12	Dark	42.500	108	Alp Col	2.6520	15200.	85	30202	No
4	GOM_TRA_1PNPDE20071210_001727_000000472064_00088_30202_0253.N1	10-DEC-2007 00:17:27	Straylight	46.500	101	11Alp Lep	2.5820	7000.0	93	30202	No
5	GOM_TRA_1PNPDE20071210_002043_000000532064_00088_30202_0254.N1	10-DEC-2007 00:20:43	Straylight	53.000	7	19Bet Ori	0.10000	14000.	106	30202	No
6	GOM_TRA_1PNPDE20071210_002816_000000572064_00088_30202_0255.N1	10-DEC-2007 00:28:16	Twilight_stray	57.000	13	87Alp Tau	0.86700	3800.0	114	30202	No
7	GOM_TRA_1PNPDE20071210_003013_000000352064_00088_30202_0256.N1	10-DEC-2007 00:30:13	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	30202	No
8	GOM_TRA_1PNPDE20071210_003228_000000372064_00088_30202_0257.N1	10-DEC-2007 00:32:28	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30202	No
9	GOM_TRA_1PNPDE20071210_003448_000000352064_00088_30202_0258.N1	10-DEC-2007 00:34:48	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30202	No
10	GOM_TRA_1PNPDE20071210_003656_000000352064_00088_30202_0259.N1	10-DEC-2007 00:36:56	Bright	35.000	175	39Del Per	3.0100	19400.	70	30202	No

11	GOM_TRA_1PNPDE20071210_004836_000000352064_00088_30202_0260.N1	10-DEC-2007 00:48:36	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30202	No
12	GOM_TRA_1PNPDE20071210_005320_000000342064_00088_30202_0261.N1	10-DEC-2007 00:53:20	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	30202	No
13	GOM_TRA_1PNPDE20071210_005814_000000412064_00088_30202_0262.N1	10-DEC-2007 00:58:14	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	30202	No
14	GOM_TRA_1PNPDE20071210_010035_000000372064_00088_30202_0263.N1	10-DEC-2007 01:00:35	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	30202	No
15	GOM_TRA_1PNPDE20071210_010343_000000342064_00088_30202_0264.N1	10-DEC-2007 01:03:43	Bright	34.000	180	27Gam Boo	3.0400	8000.0	68	30202	No
16	GOM_TRA_1PNPDE20071210_010649_000000342064_00088_30202_0265.N1	10-DEC-2007 01:06:49	Bright	34.000	83		2.3780	11000.	68	30202	No
17	GOM_TRA_1PNPDE20071210_010958_000000372064_00088_30202_0266.N1	10-DEC-2007 01:09:58	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	30202	No
18	GOM_TRA_1PNPDE20071210_011921_000000582064_00088_30202_0391.N1	10-DEC-2007 01:19:21	Bright	58.000	15	67Alp Vir	0.97600	28000.	116	30202	No
19	GOM_TRA_1PNPDE20071210_012249_000000452064_00088_30202_0392.N1	10-DEC-2007 01:22:49	Twilight	44.500	169	46Gam Hya	2.9910	4700.0	89	30202	No
20	GOM_TRA_1PNPDE20071210_012451_000000512064_00088_30202_0393.N1	10-DEC-2007 01:24:51	Dark	50.500	106	9Bet Crv	2.6480	5600.0	101	30202	No
21	GOM_TRA_1PNPDE20071210_013017_000000392064_00088_30202_0394.N1	10-DEC-2007 01:30:17	Dark	38.500	64	Gam Cen	2.2000	10600.	77	30202	No
22	GOM_TRA_1PNPDE20071210_013148_000000402064_00088_30202_0395.N1	10-DEC-2007 01:31:48	Dark	39.500	99	Del Cen	2.5750	26000.	79	30202	No
23	GOM_TRA_1PNPDE20071210_013519_000000452064_00089_30203_0396.N1	10-DEC-2007 01:35:19	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	30203	No
24	GOM_TRA_1PNPDE20071210_013819_000000382064_00089_30203_0397.N1	10-DEC-2007 01:38:19	Dark	37.500	159	Ups Car	2.9200	7200.0	75	30203	No
25	GOM_TRA_1PNPDE20071210_014358_000000492064_00089_30203_0398.N1	10-DEC-2007 01:43:58	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	30203	No
26	GOM_TRA_1PNPDE20071210_014637_000000562064_00089_30203_0399.N1	10-DEC-2007 01:46:37	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	30203	No
27	GOM_TRA_1PNPDE20071210_015248_000000452064_00089_30203_0400.N1	10-DEC-2007 01:52:48	Straylight	44.500	108	Alp Col	2.6520	15200.	89	30203	No
28	GOM_TRA_1PNPDE20071210_015803_000000472064_00089_30203_0401.N1	10-DEC-2007 01:58:03	Straylight	47.000	101	11Alp Lep	2.5820	7000.0	94	30203	No
29	GOM_TRA_1PNPDE20071210_020118_000000522064_00089_30203_0402.N1	10-DEC-2007 02:01:18	Straylight	51.500	7	19Bet Ori	0.10000	14000.	103	30203	No
30	GOM_TRA_1PNPDE20071210_020852_000000572064_00089_30203_0403.N1	10-DEC-2007 02:08:52	Tw_and_stray	56.500	13	87Alp Tau	0.86700	3800.0	113	30203	No
31	GOM_TRA_1PNPDE20071210_021049_000000392064_00089_30203_0404.N1	10-DEC-2007 02:10:49	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	30203	No
32	GOM_TRA_1PNPDE20071210_021303_000000382064_00089_30203_0405.N1	10-DEC-2007 02:13:03	Bright	38.000	150	44Zet Per	2.8900	28000.	76	30203	No
33	GOM_TRA_1PNPDE20071210_021524_000000362064_00089_30203_0406.N1	10-DEC-2007 02:15:24	Bright	35.500	149	45Eps Per	2.8880	30000.	71	30203	No
34	GOM_TRA_1PNPDE20071210_021732_000000352064_00089_30203_0407.N1	10-DEC-2007 02:17:32	Bright	34.500	175	39Del Per	3.0100	19400.	69	30203	No
35	GOM_TRA_1PNPDE20071210_022912_000000322064_00089_30203_0408.N1	10-DEC-2007 02:29:12	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30203	No
36	GOM_TRA_1PNPDE20071210_023356_000000362064_00089_30203_0548.N1	10-DEC-2007 02:33:56	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	30203	No
37	GOM_TRA_1PNPDE20071210_023850_000000402064_00089_30203_0549.N1	10-DEC-2007 02:38:50	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	30203	No
38	GOM_TRA_1PNPDE20071210_024111_000000392064_00089_30203_0550.N1	10-DEC-2007 02:41:11	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	30203	No
39	GOM_TRA_1PNPDE20071210_024419_000000402064_00089_30203_0551.N1	10-DEC-2007 02:44:19	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	30203	No
40	GOM_TRA_1PNPDE20071210_024725_000000362064_00089_30203_0552.N1	10-DEC-2007 02:47:25	Bright	36.000	83		2.3780	11000.	72	30203	No
41	GOM_TRA_1PNPDE20071210_025034_000000372064_00089_30203_0553.N1	10-DEC-2007 02:50:34	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	30203	No
42	GOM_TRA_1PNPDE20071210_025958_000000492064_00089_30203_0554.N1	10-DEC-2007 02:59:58	Bright	49.000	15	67Alp Vir	0.97600	28000.	98	30203	No
43	GOM_TRA_1PNPDE20071210_030325_000000452064_00089_30203_0555.N1	10-DEC-2007 03:03:25	Twilight	45.000	169	46Gam Hya	2.9910	4700.0	90	30203	No
44	GOM_TRA_1PNPDE20071210_030527_000000502064_00089_30203_0556.N1	10-DEC-2007 03:05:27	Dark	49.500	106	9Bet Crv	2.6480	5600.0	99	30203	No
45	GOM_TRA_1PNPDE20071210_031054_000000382064_00089_30203_0557.N1	10-DEC-2007 03:10:54	Dark	38.000	64	Gam Cen	2.2000	10600.	76	30203	No
46	GOM_TRA_1PNPDE20071210_031225_000000422064_00089_30203_0558.N1	10-DEC-2007 03:12:25	Dark	41.500	99	Del Cen	2.5750	26000.	83	30203	No
47	GOM_TRA_1PNPDE20071210_031556_000000452064_00090_30204_0559.N1	10-DEC-2007 03:15:56	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	30204	No
48	GOM_TRA_1PNPDE20071210_031856_000000382064_00090_30204_0560.N1	10-DEC-2007 03:18:56	Dark	37.500	159	Ups Car	2.9200	7200.0	75	30204	No
49	GOM_TRA_1PNPDE20071210_032435_000000492064_00090_30204_0561.N1	10-DEC-2007 03:24:35	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	30204	No
50	GOM_TRA_1PNPDE20071210_032713_000000492064_00090_30204_0562.N1	10-DEC-2007 03:27:13	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	30204	No

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



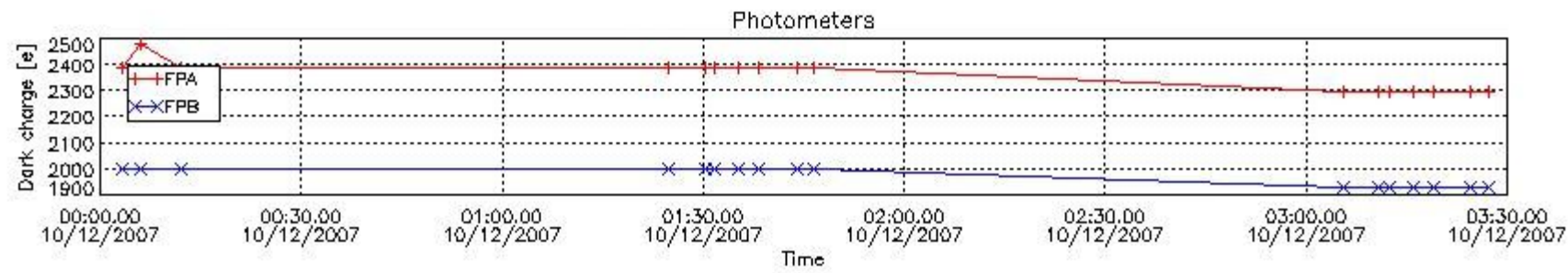
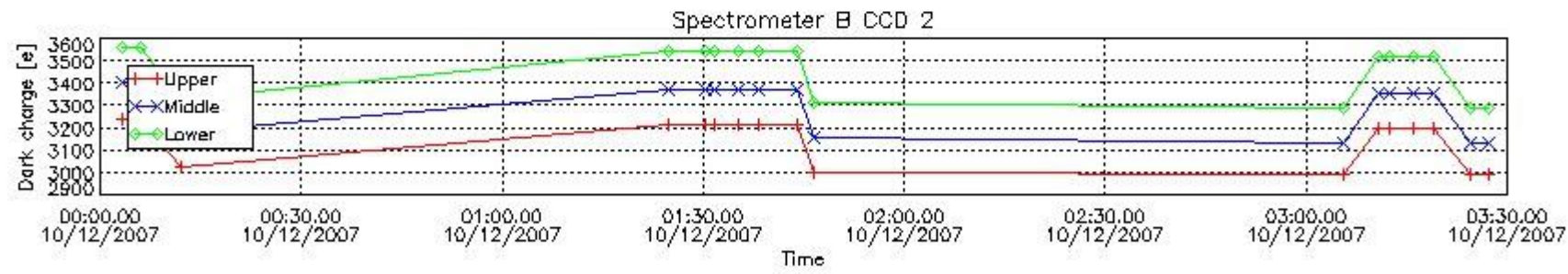
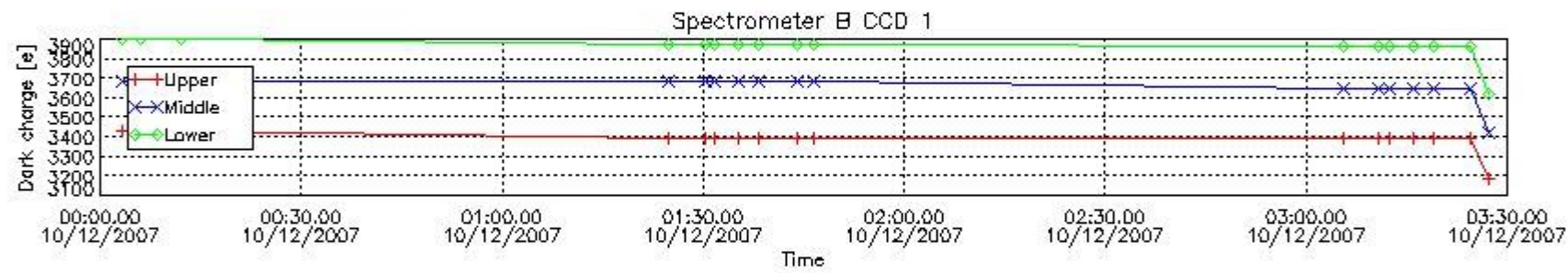
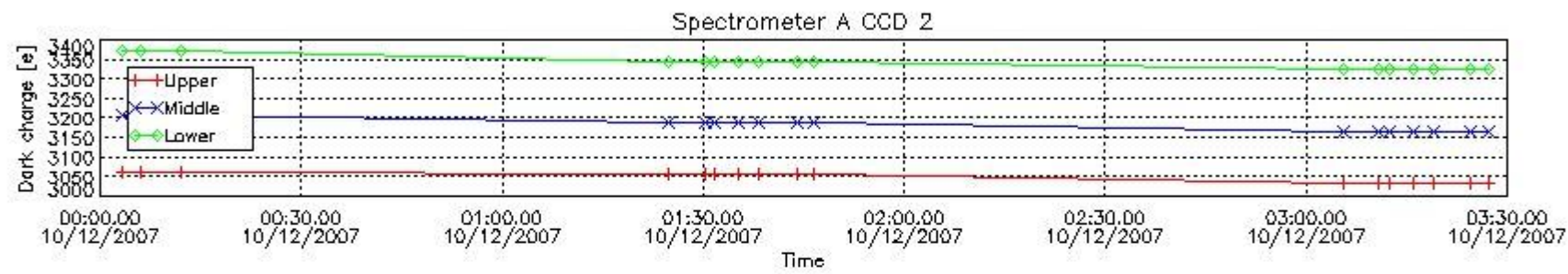
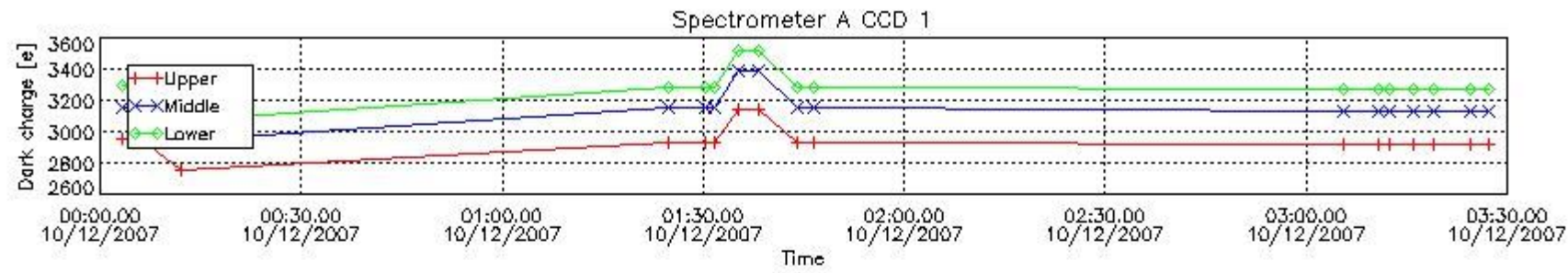
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



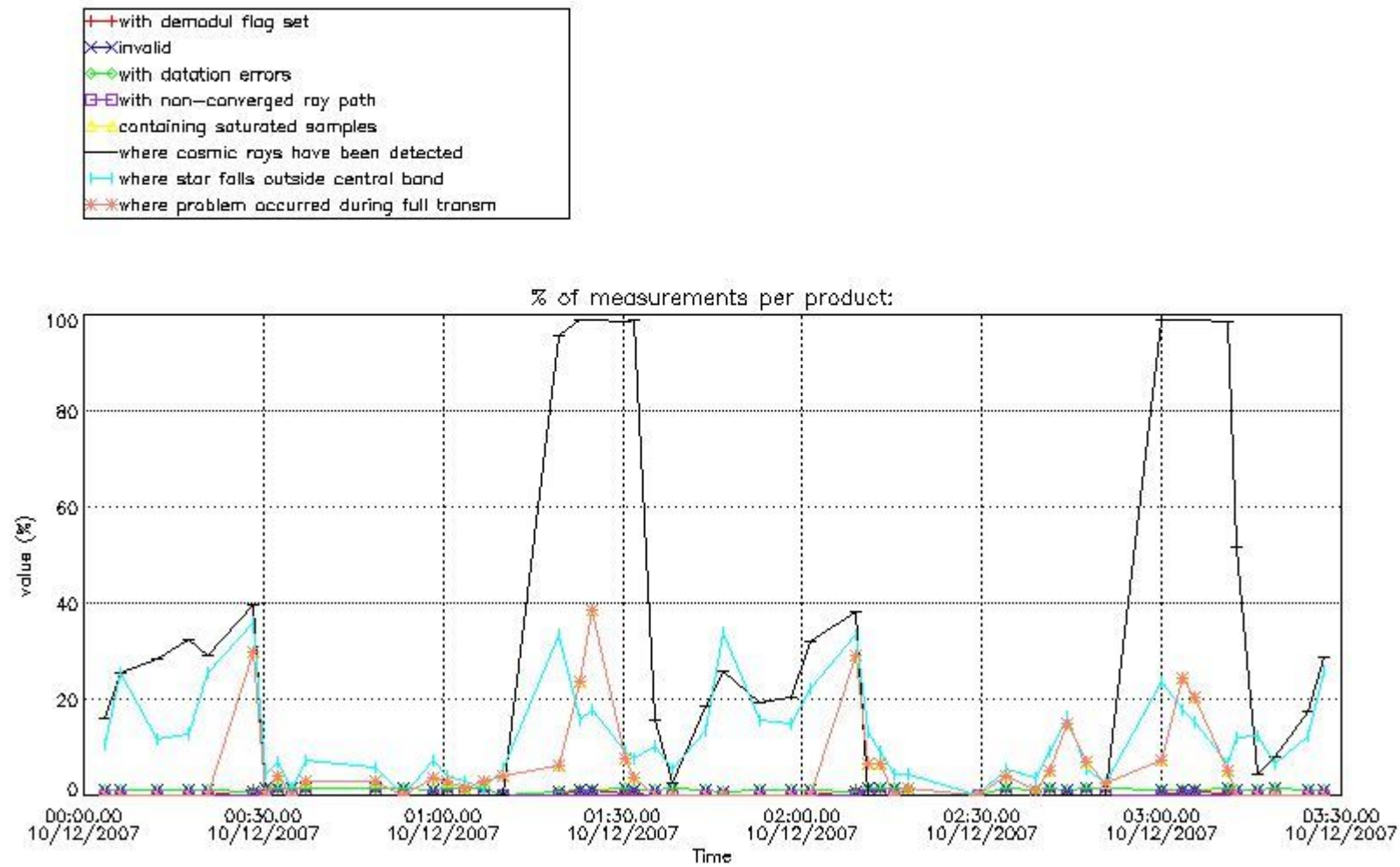
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

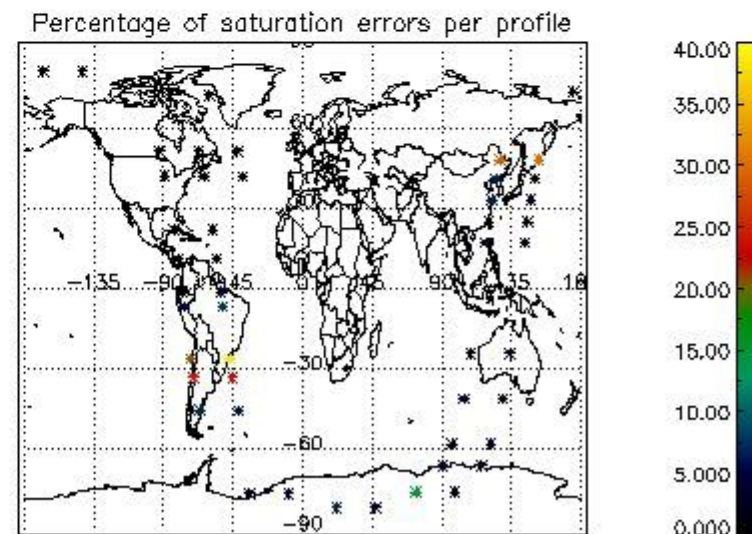
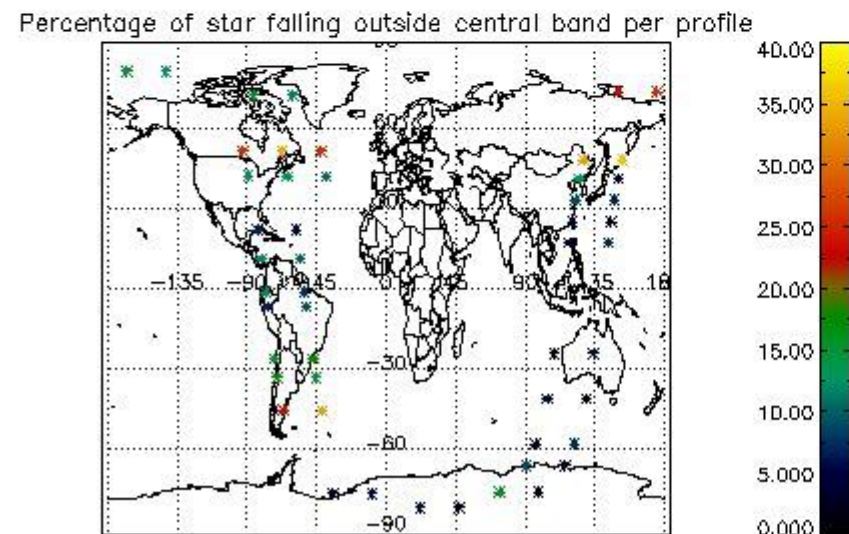
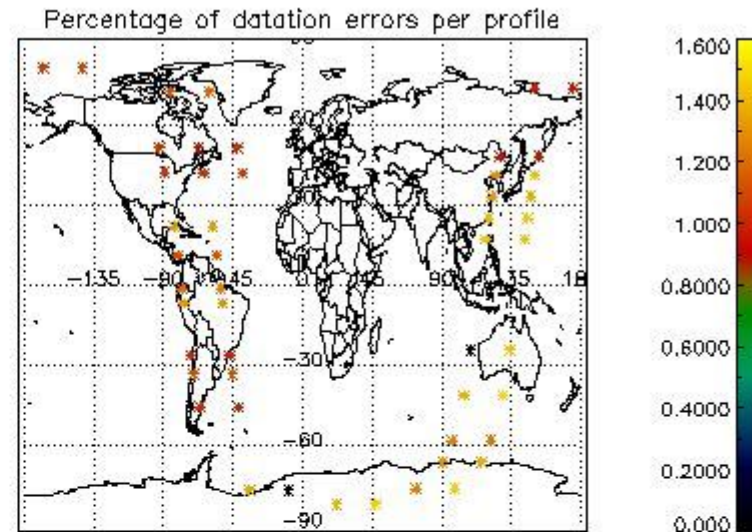
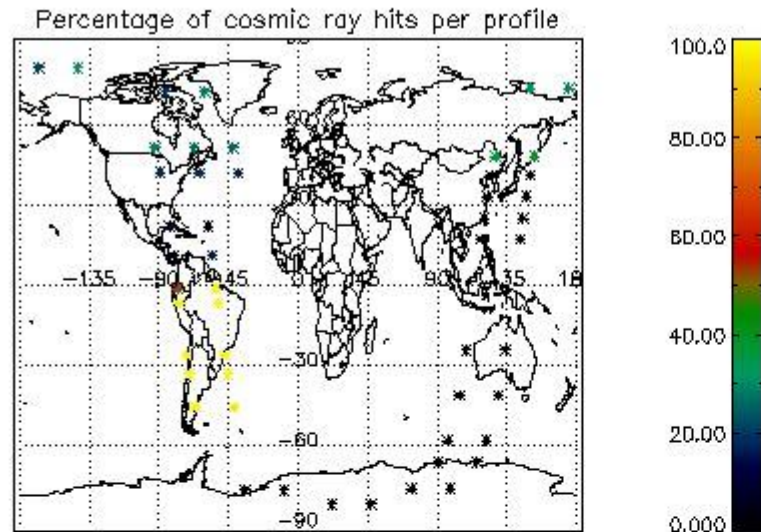
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
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)



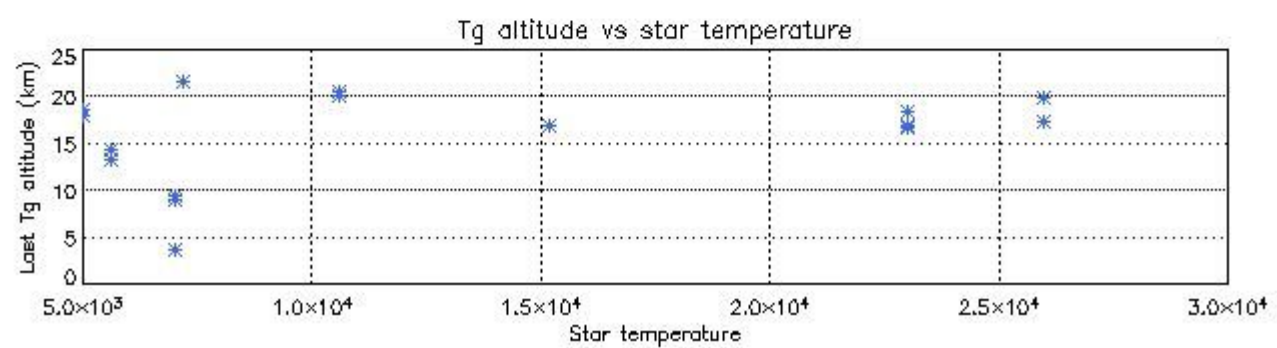
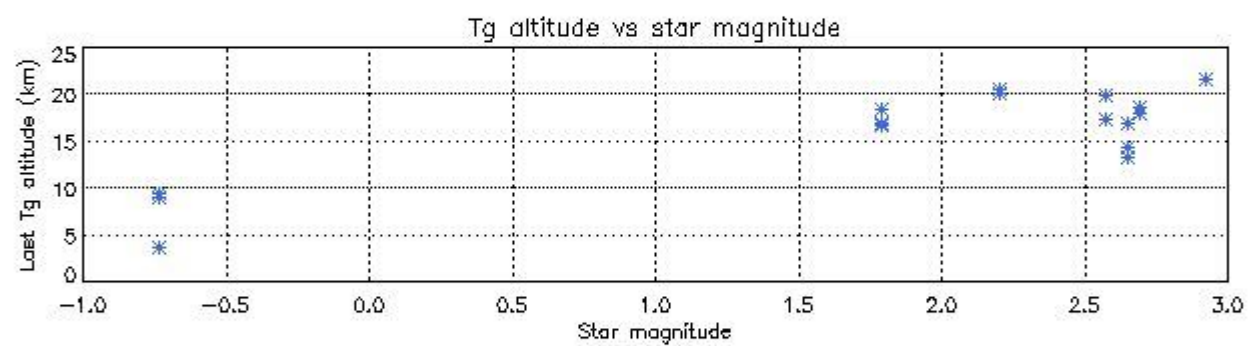
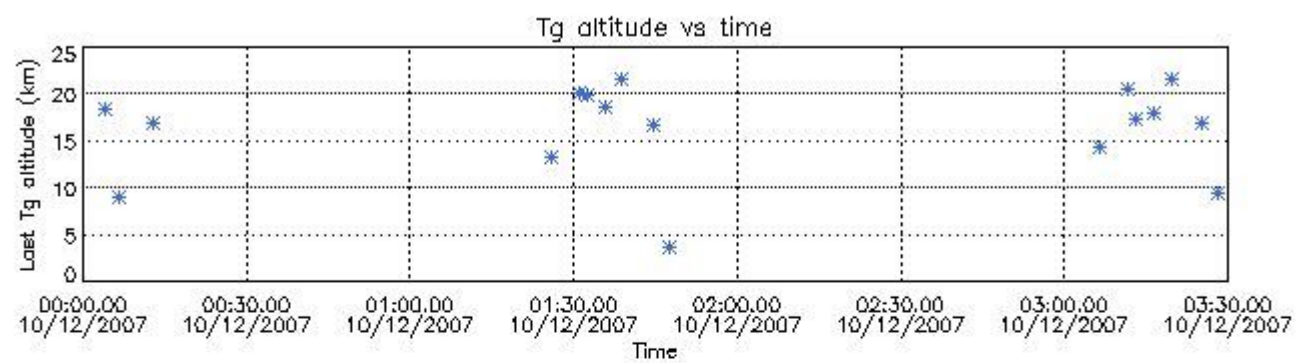
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.219	20.956	13.135
St. deviation:	4.9468	5.4425	0.43240
Maximum:	21.676	29.994	13.441
Minimum:	3.5499	3.9861	12.829
Number of data:	17.000	24.000	2.0000

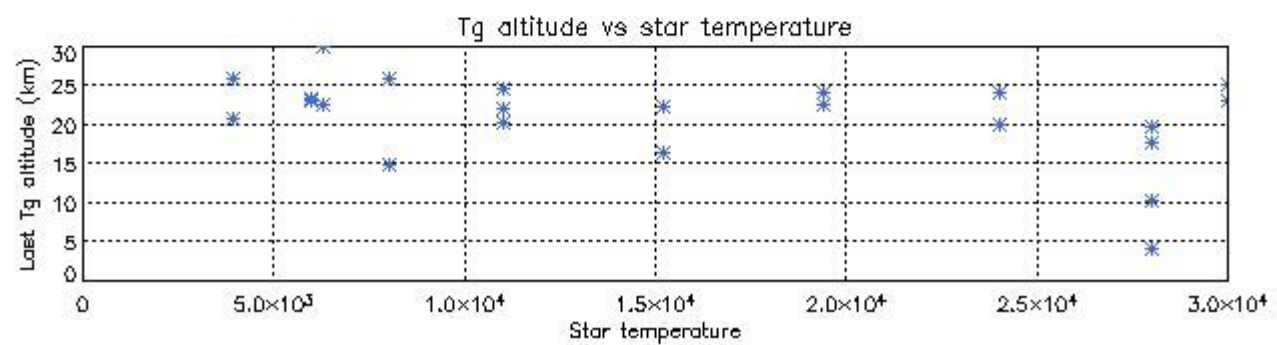
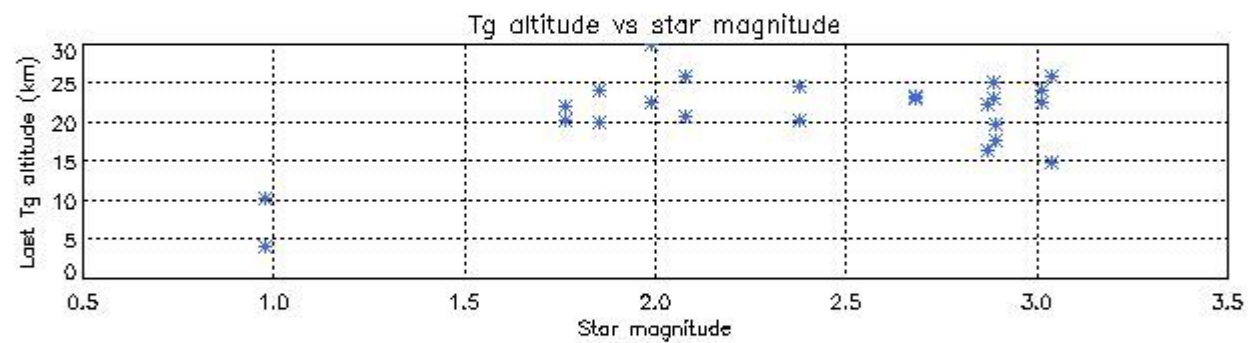
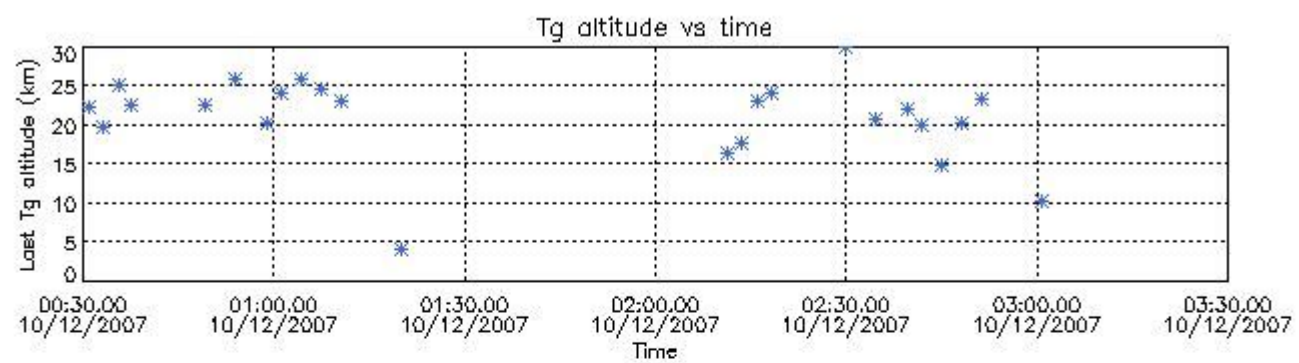
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



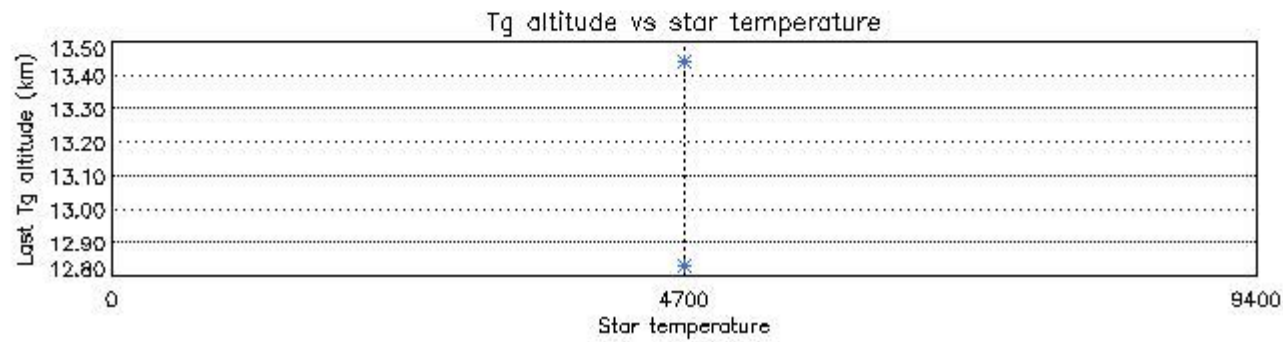
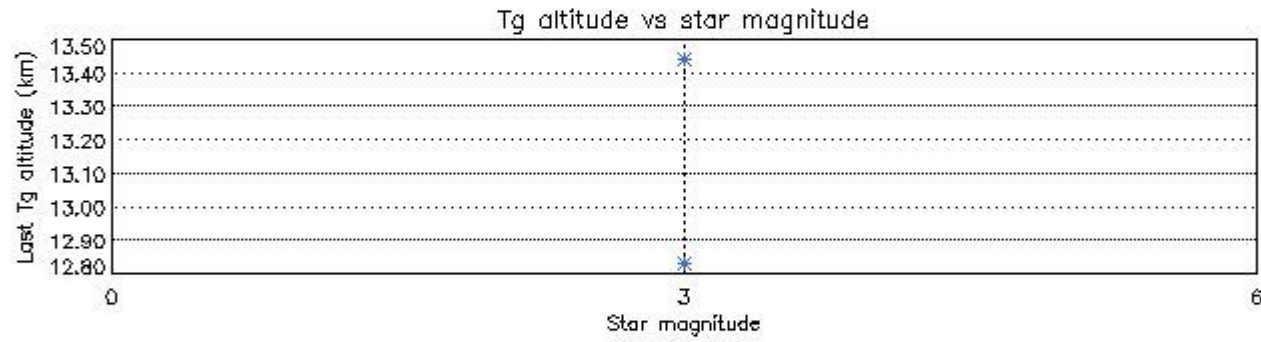
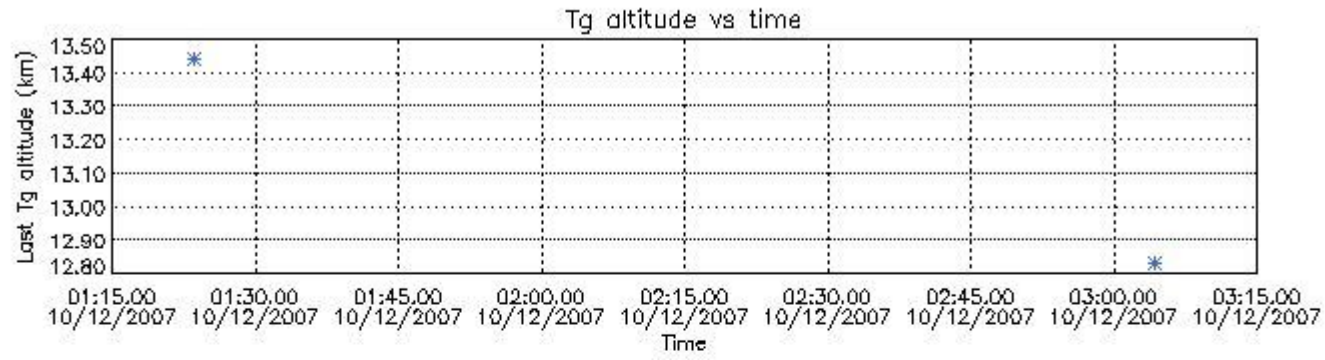
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

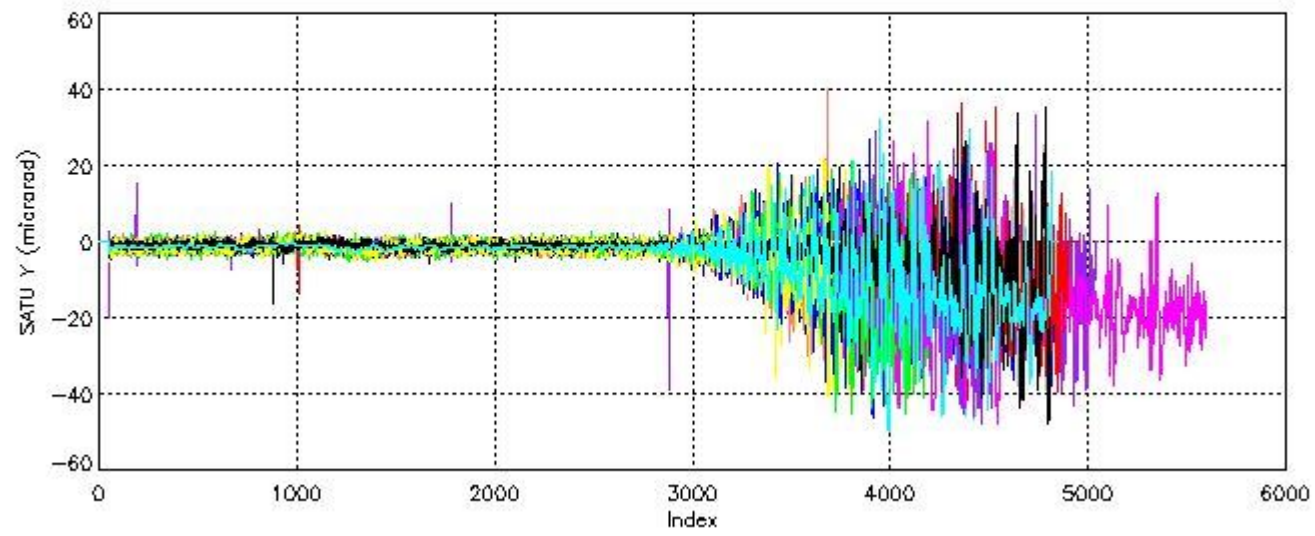
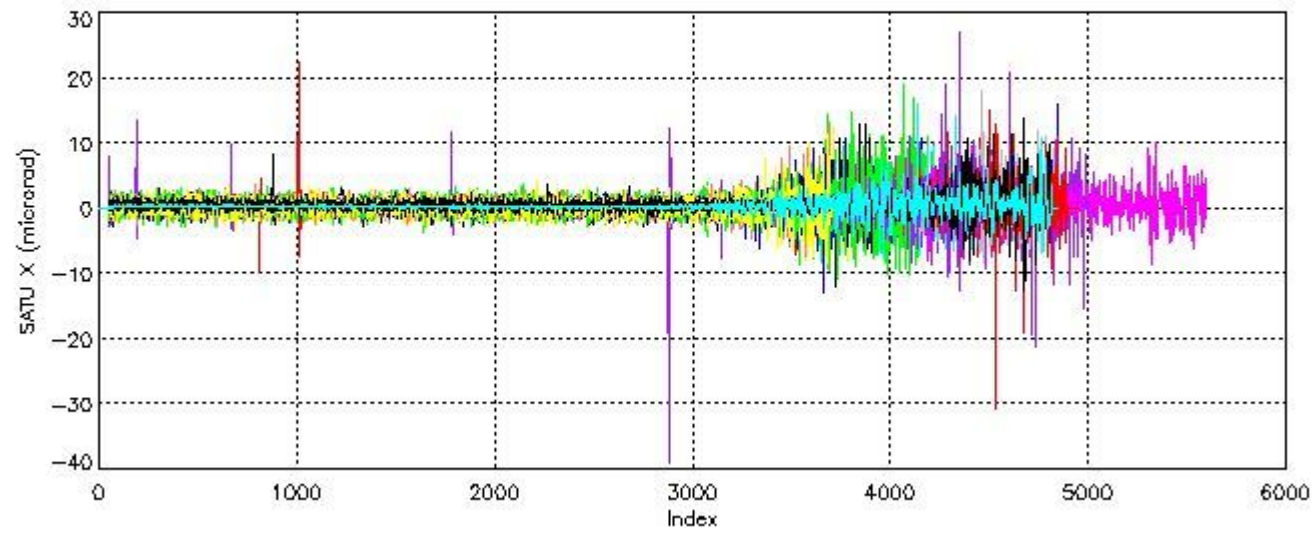


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25058	-1.2009	0.089517	-1.2569
St. deviation:	0.63218	0.84436	0.95009	1.2612
Maximum:	22.300	15.500	5.8000	5.4000
Minimum:	-10.000	-19.900	-6.3000	-7.9000

Number of data:	16650.	16650.	20200.	20200.
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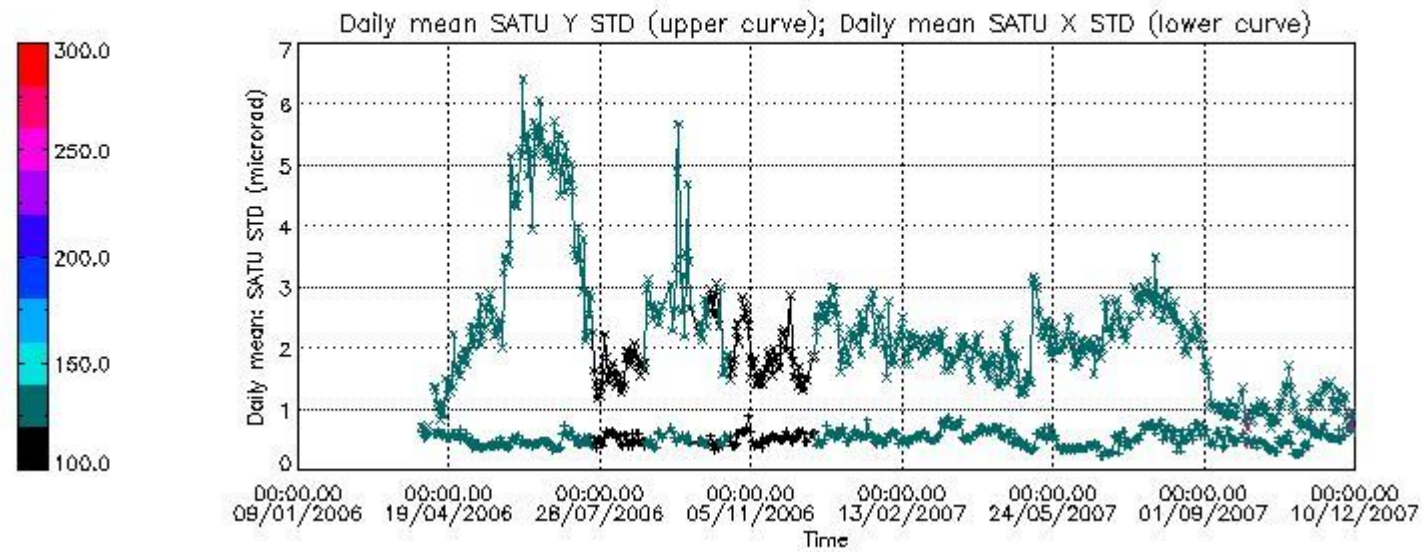
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

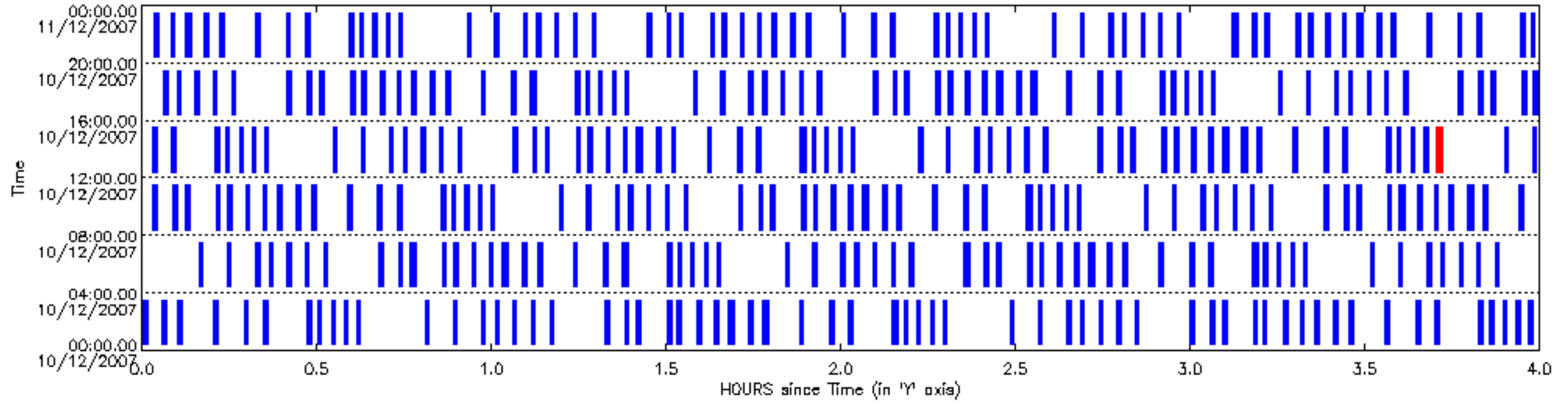
Lower curve: STD of SATU X axis

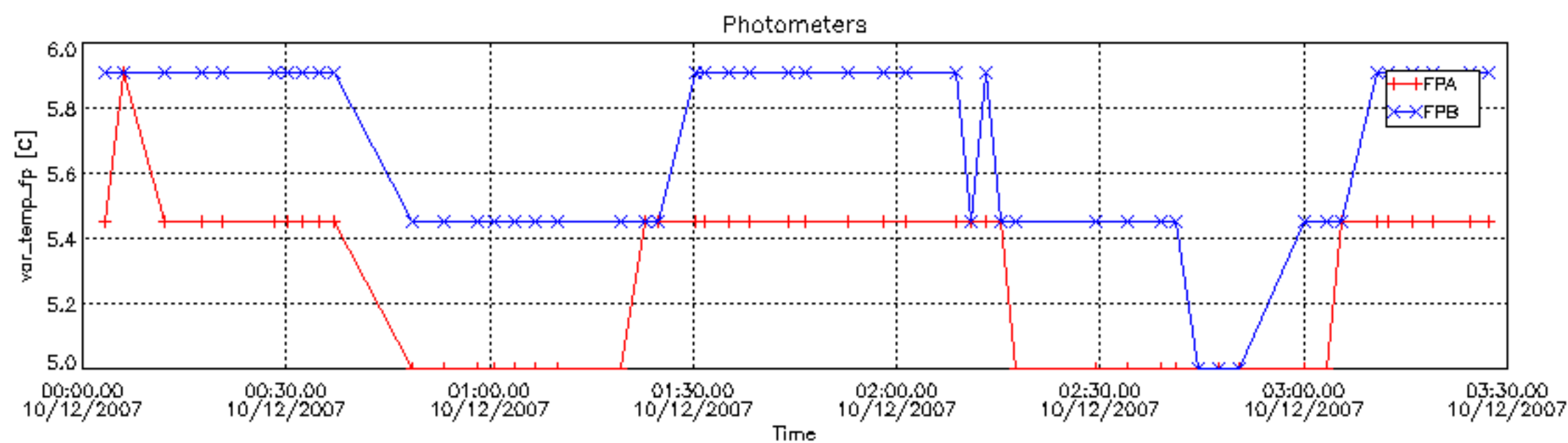
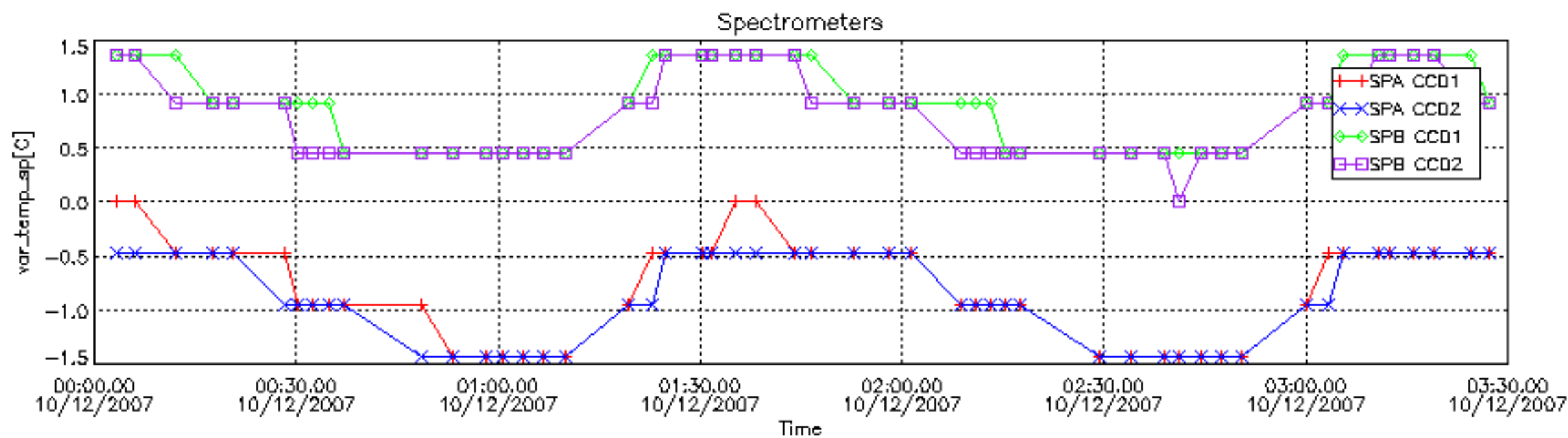


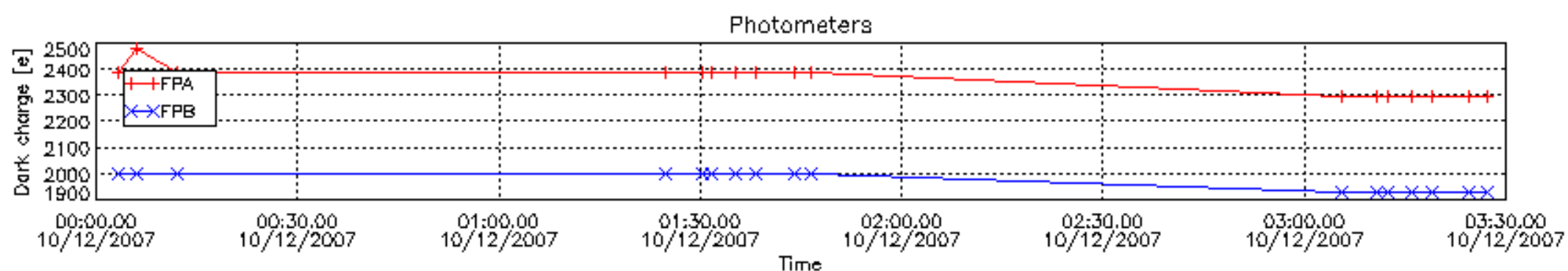
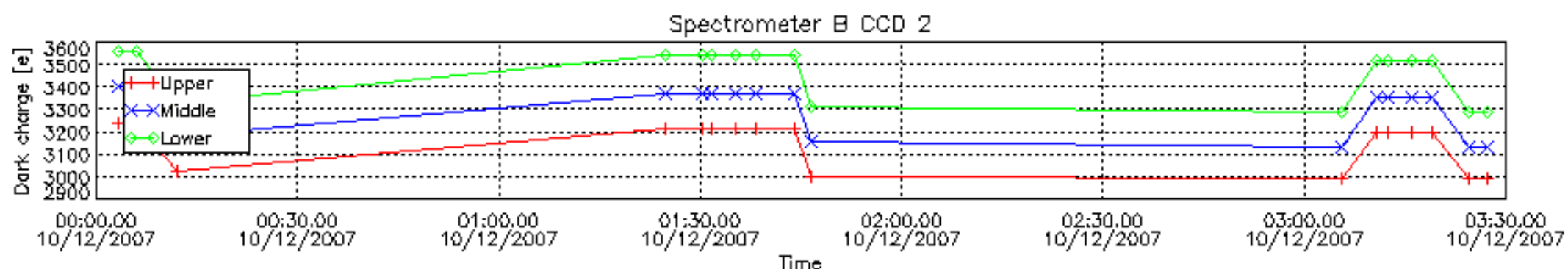
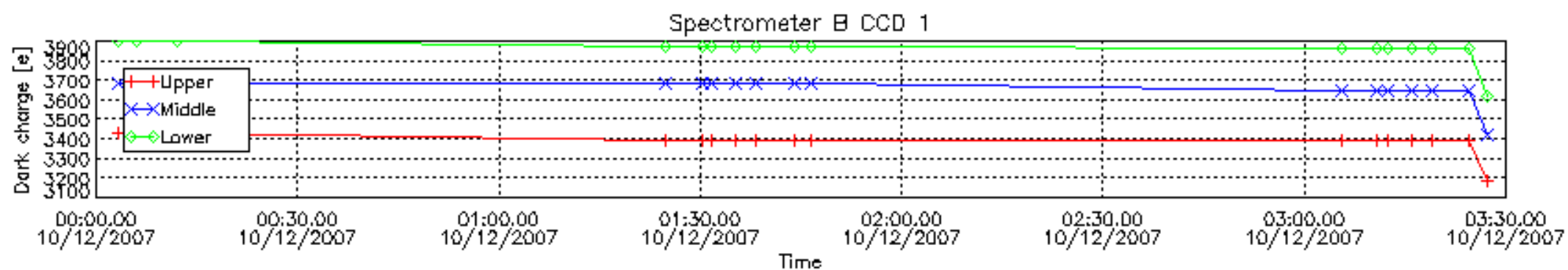
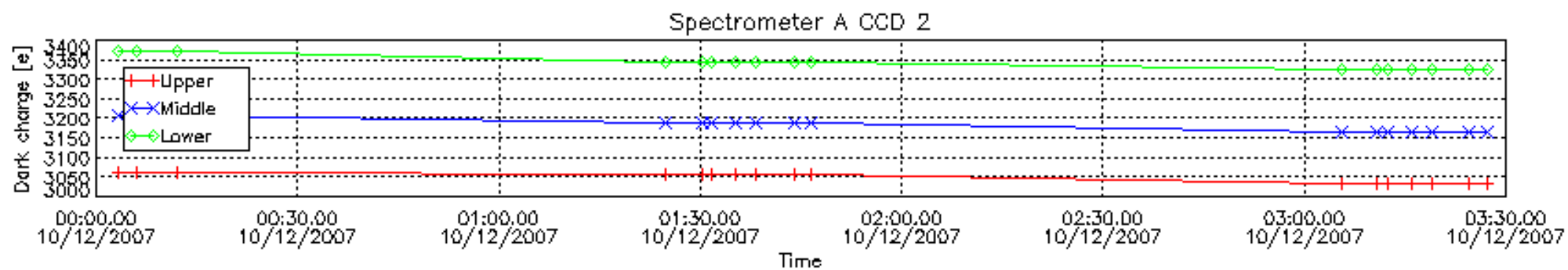
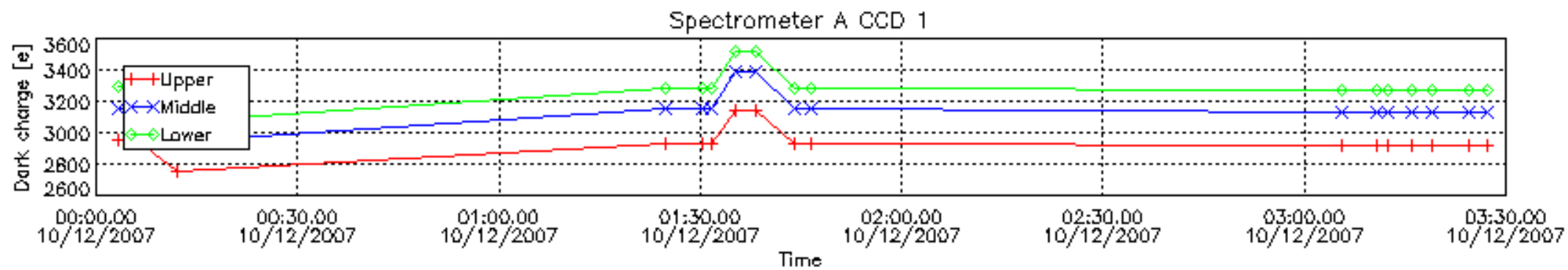
8. Auxiliary Data Files used for the production reported in section 2.4

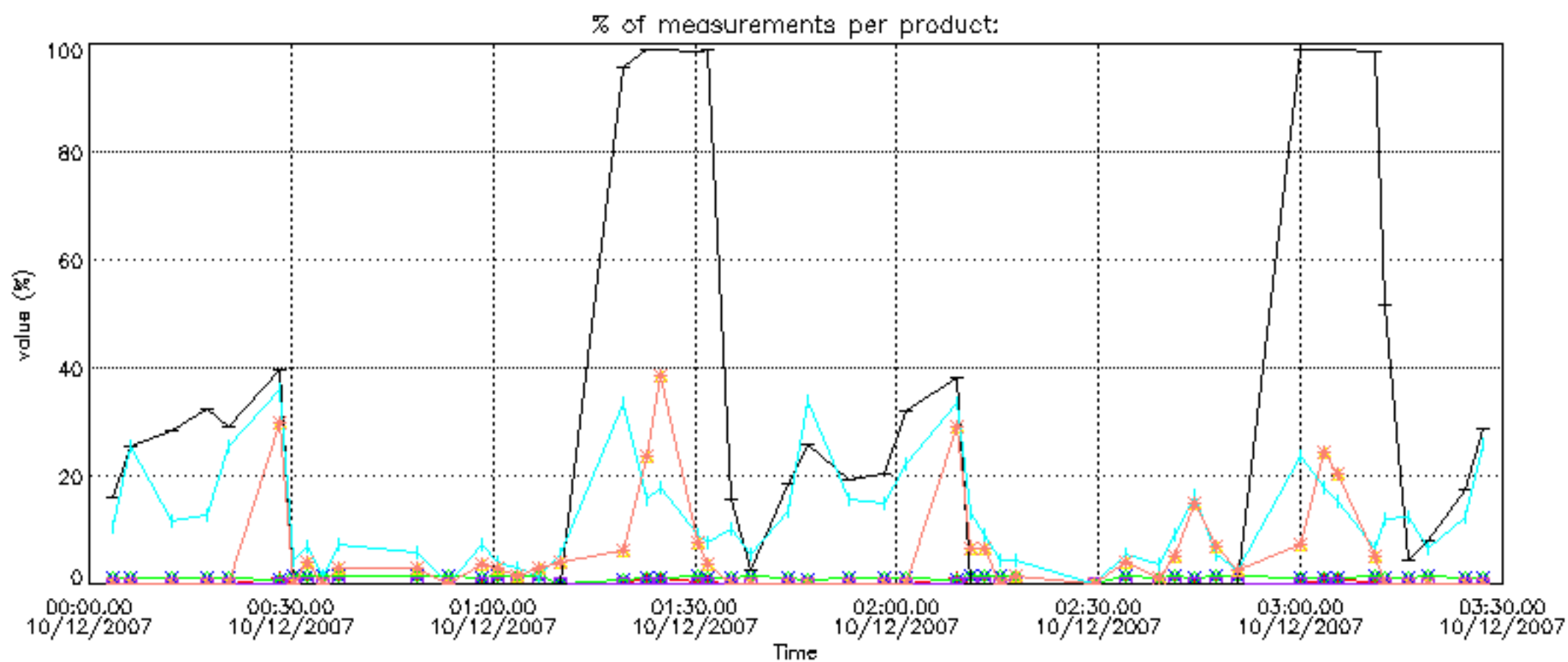
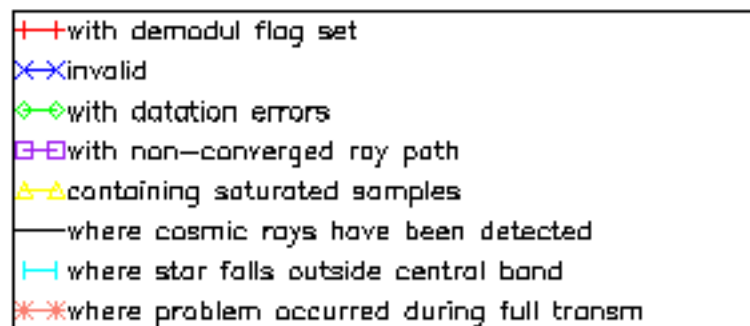
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-DEC-2007 00:03:22
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071207_090506_20071205_000000_20100101_000000	1	10-DEC-2007 00:03:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-DEC-2007 00:03:22
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-DEC-2007 00:03:22
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-DEC-2007 00:03:22
ECMWF_FILE	AUX_ECF_AXNECM20071209_063112_20071209_210000_20071210_090000	1	10-DEC-2007 00:03:22
OPTIONAL_ECMWF_FILE	MISSING	1	10-DEC-2007 00:03:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071209_215414_000057382064_00086_30200_4720.N1	1	10-DEC-2007 00:03:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071209_233511_000057382064_00087_30201_4721.N1	18	10-DEC-2007 01:19:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071210_011608_000041442064_00088_30202_4722.N1	36	10-DEC-2007 02:33:56

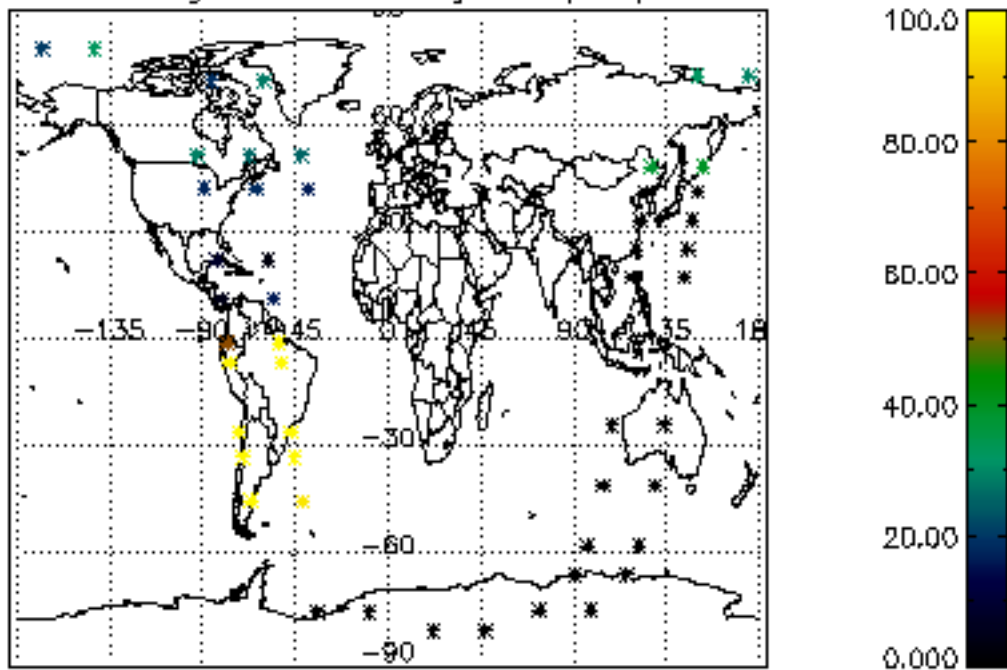




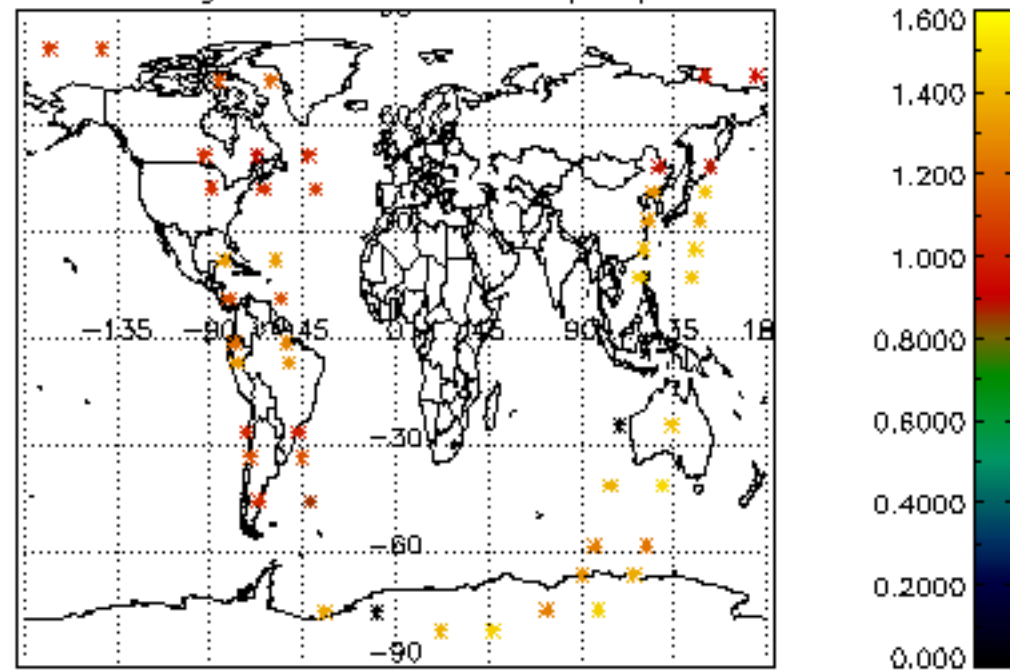




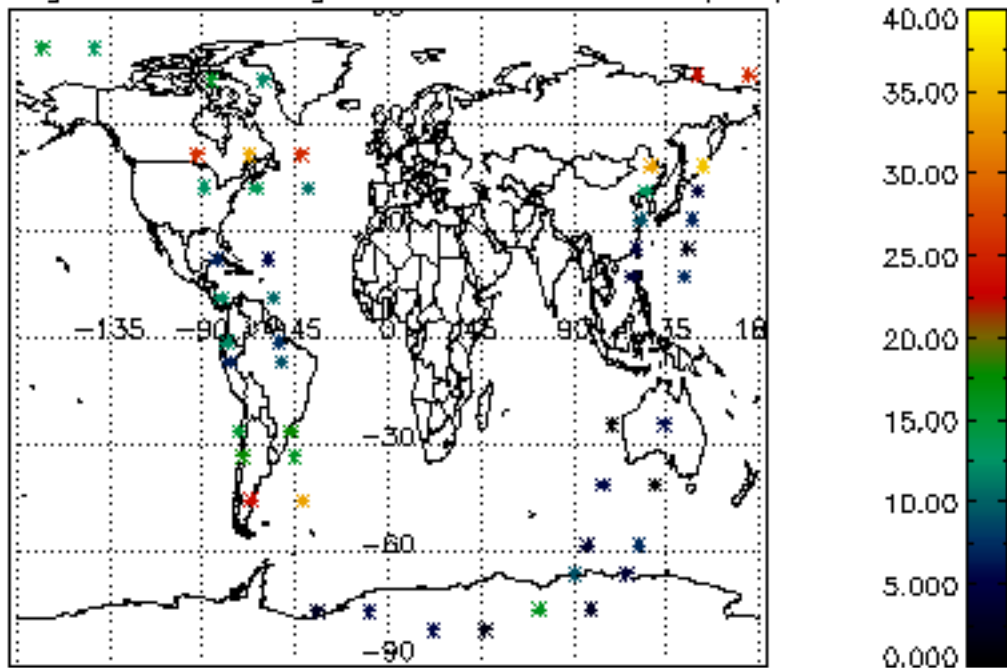
Percentage of cosmic ray hits per profile



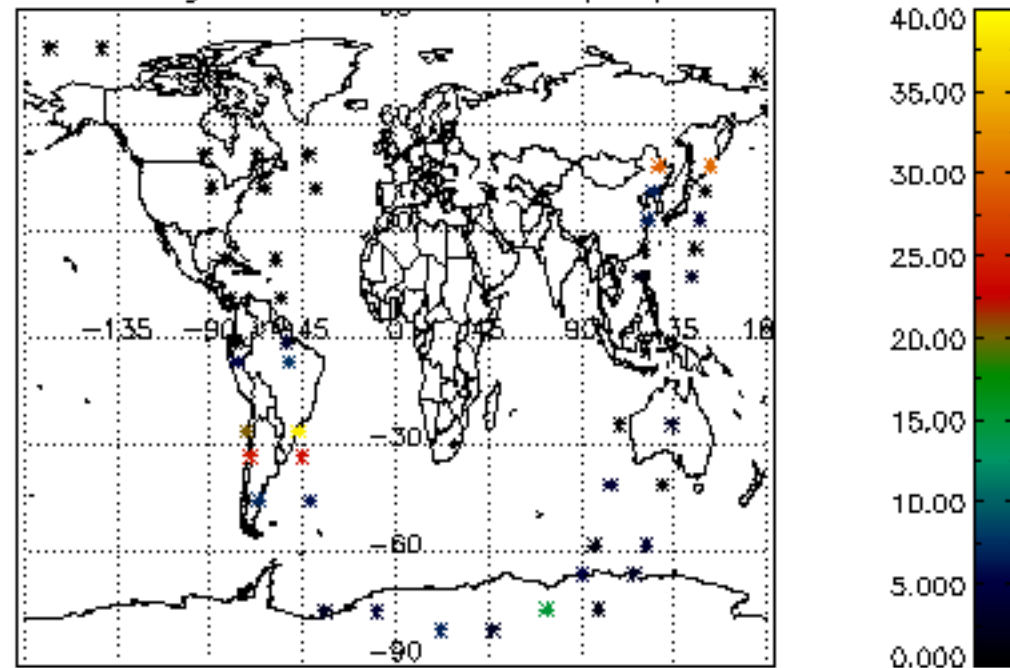
Percentage of datation errors per profile



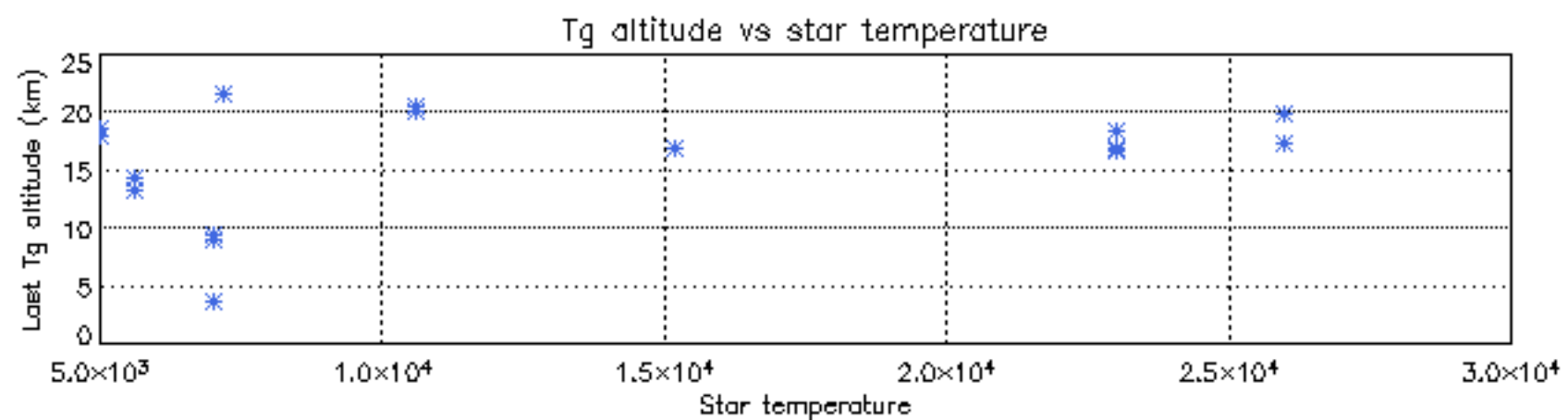
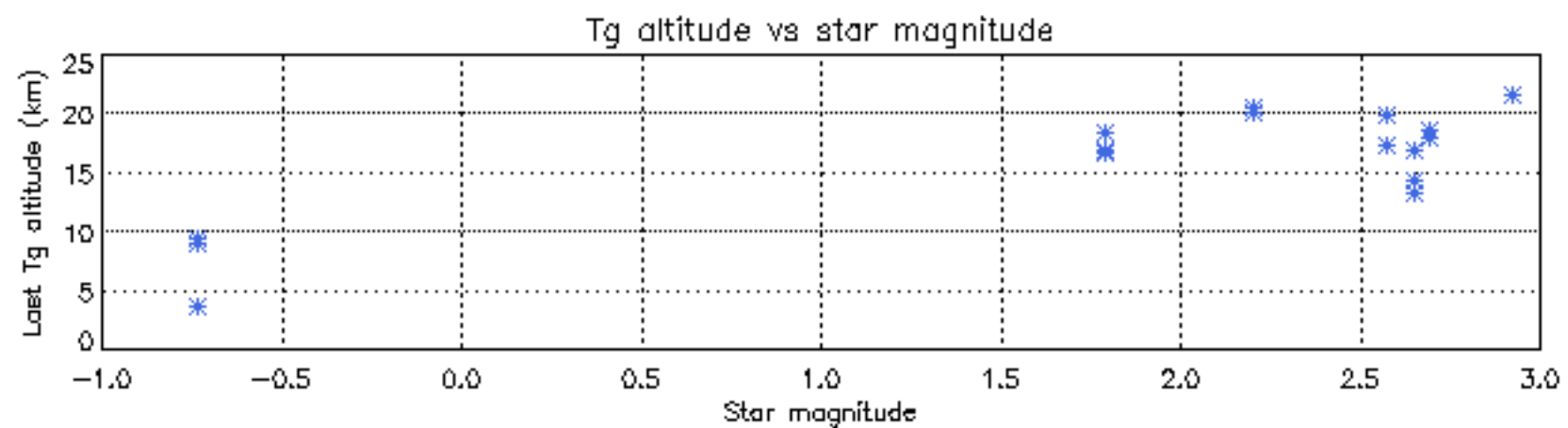
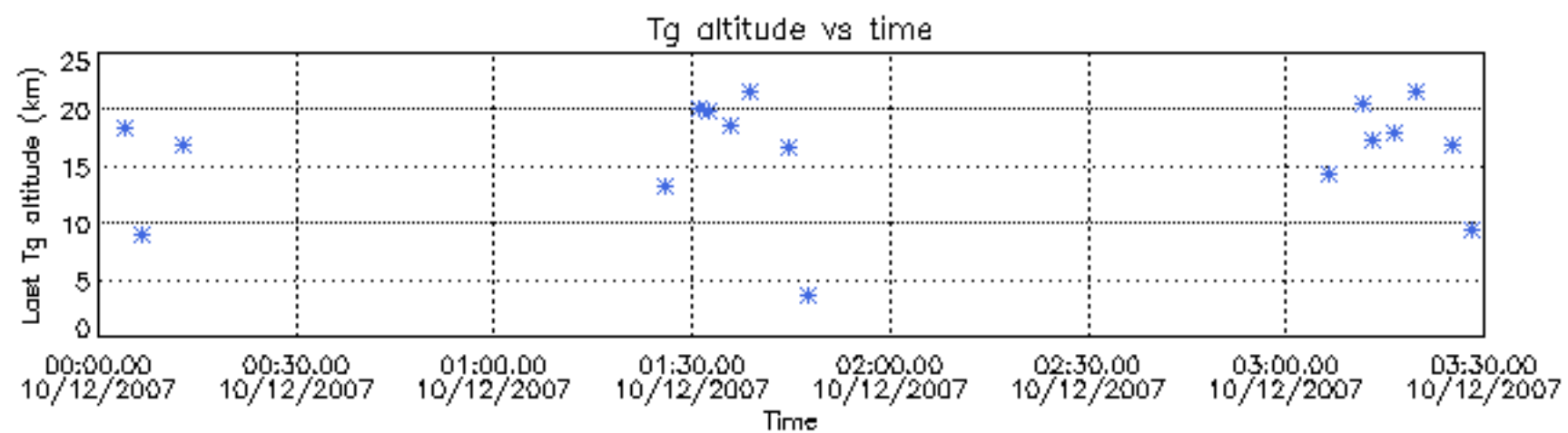
Percentage of star falling outside central band per profile



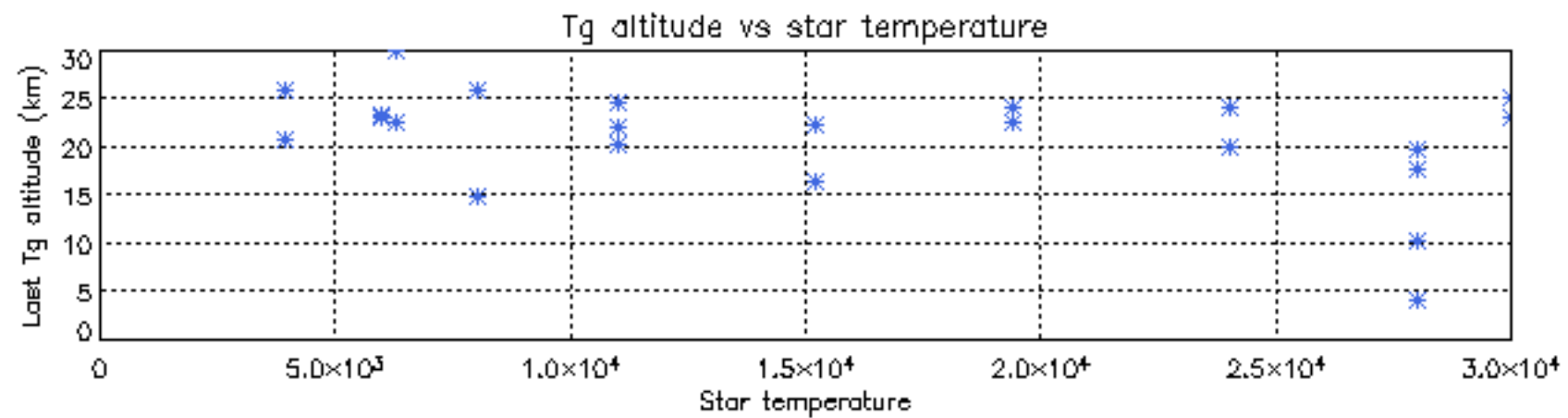
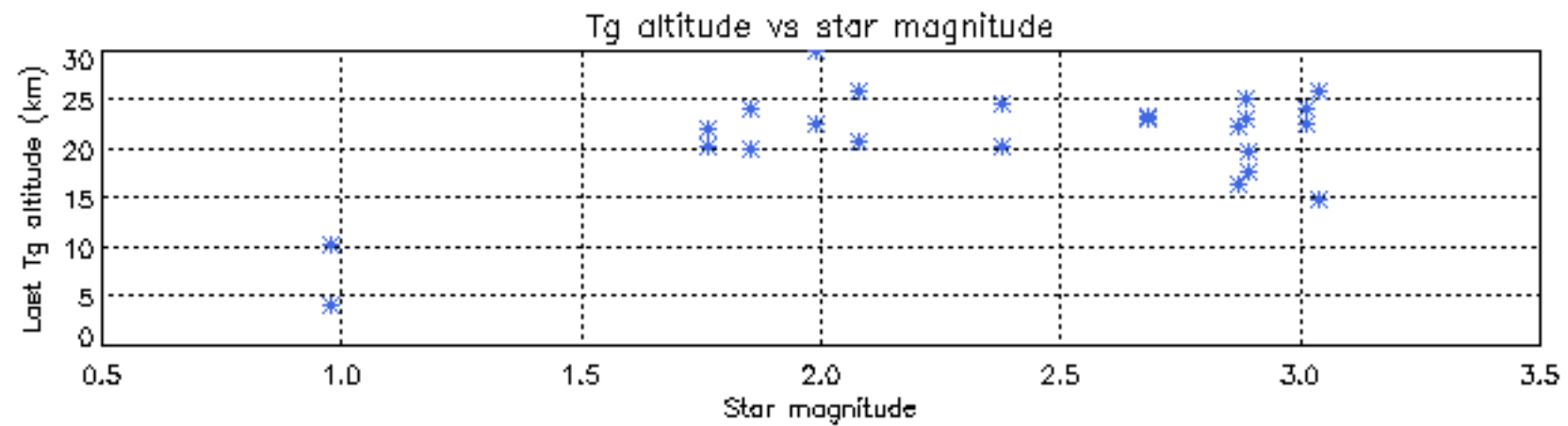
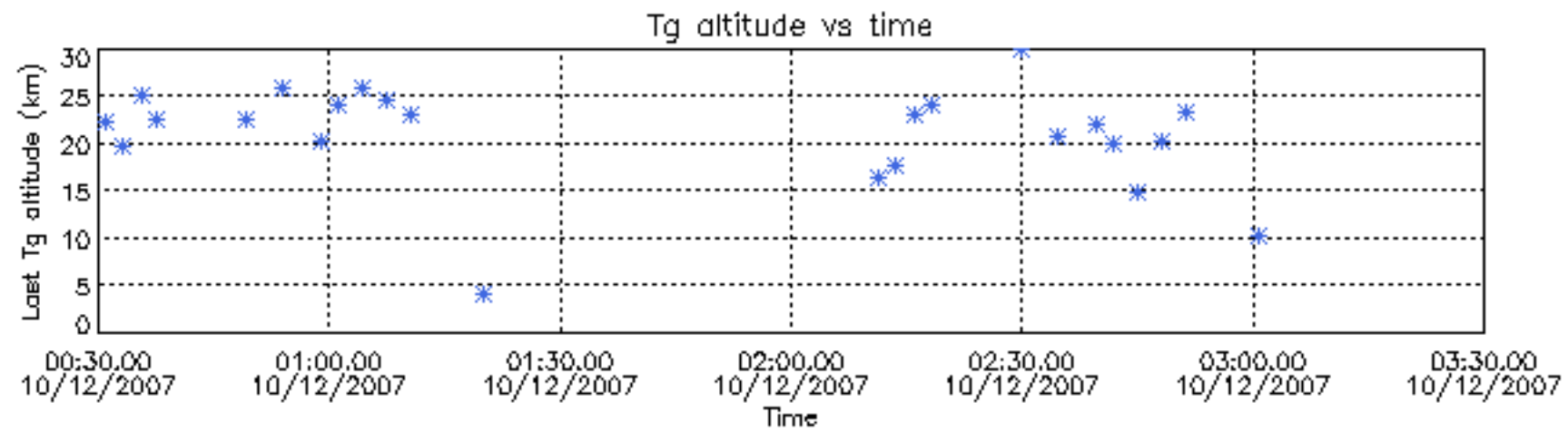
Percentage of saturation errors per profile



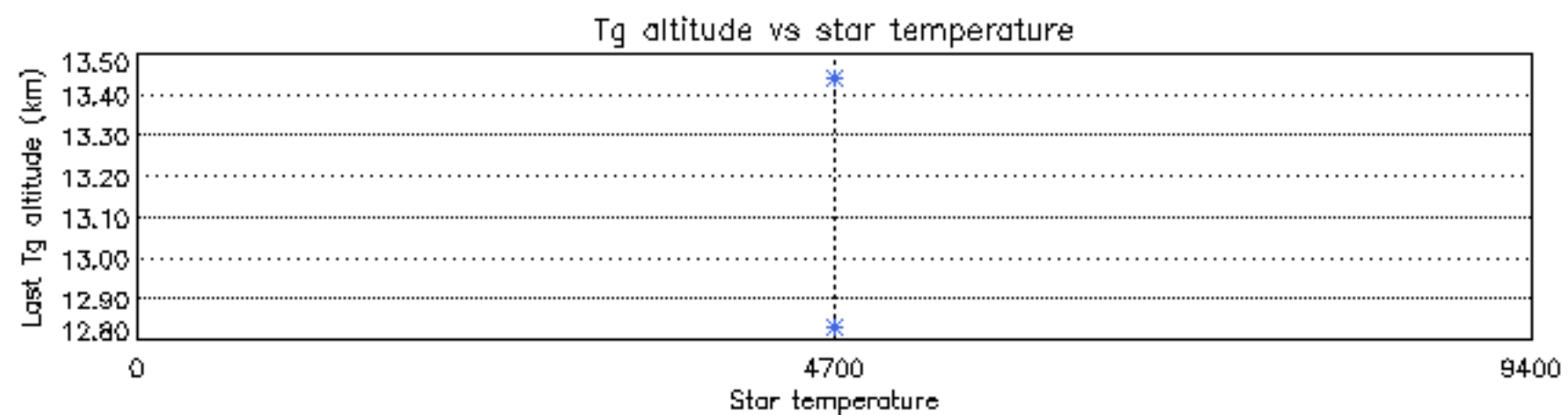
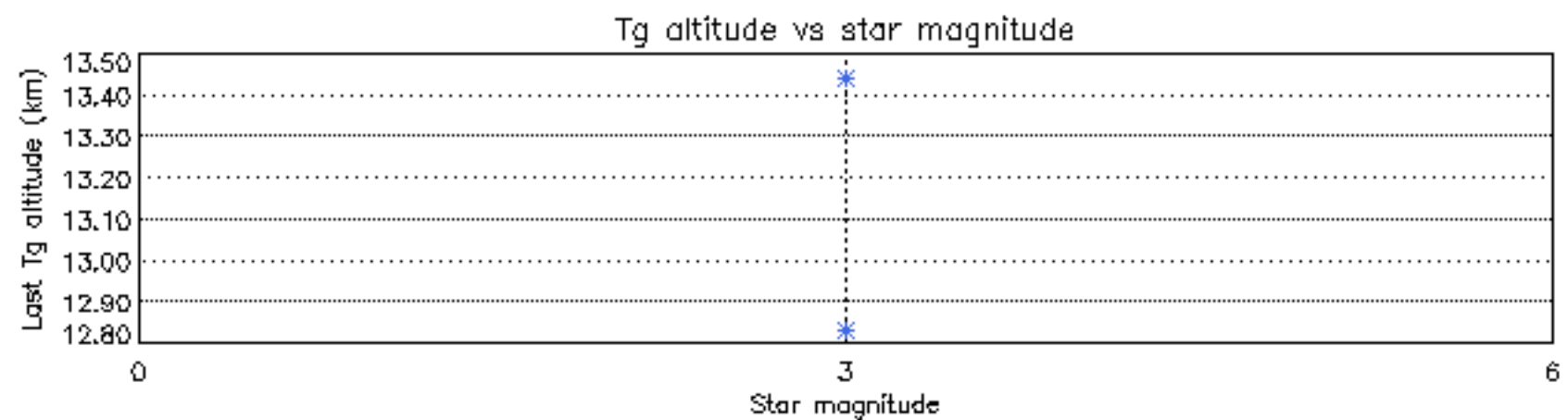
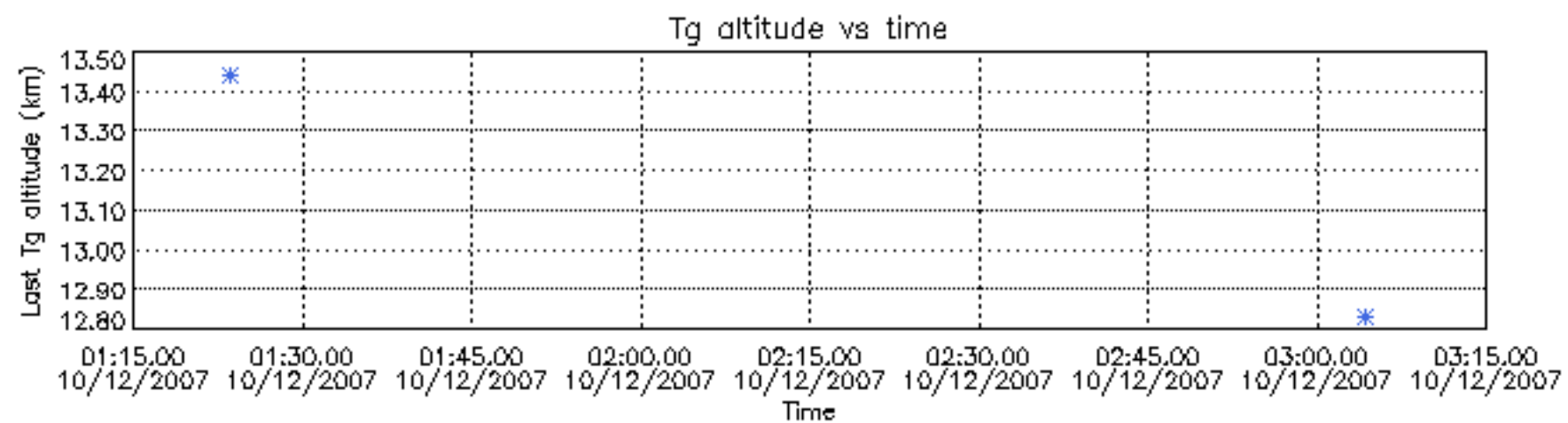
Tangent altitude at which the star is lost

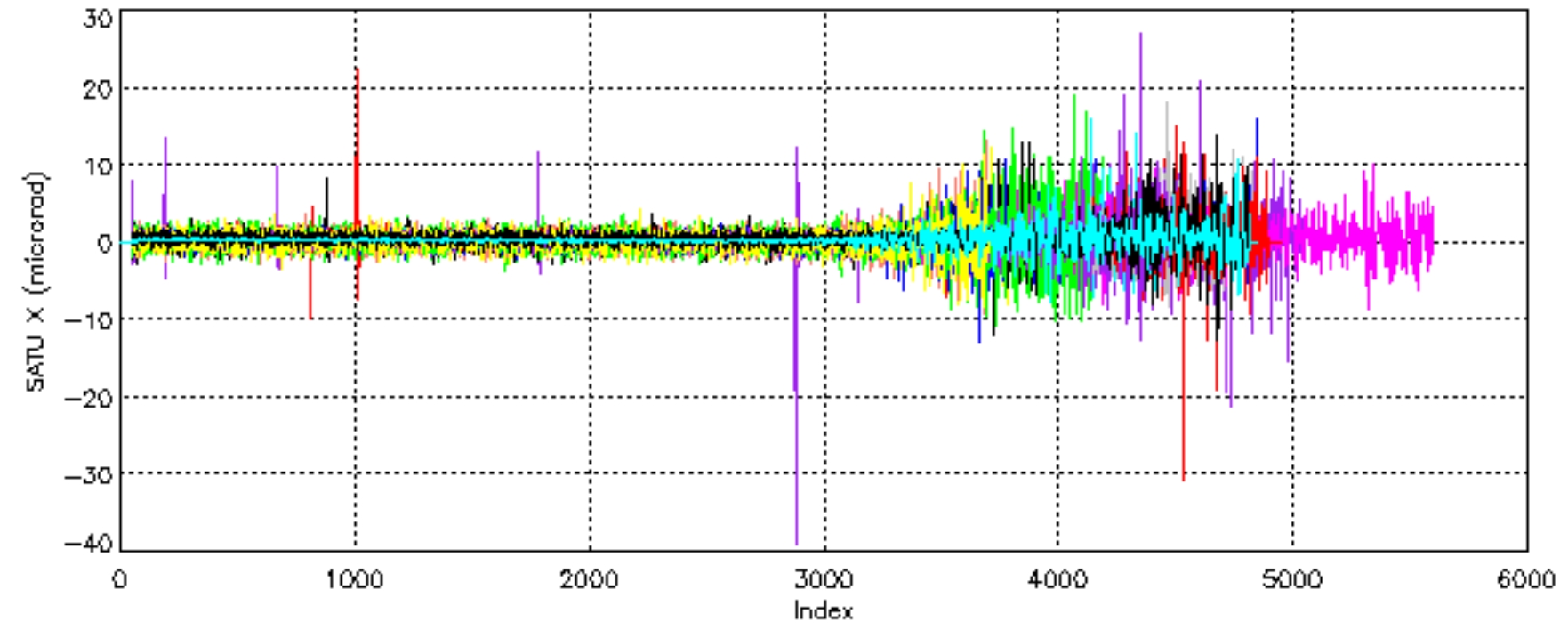


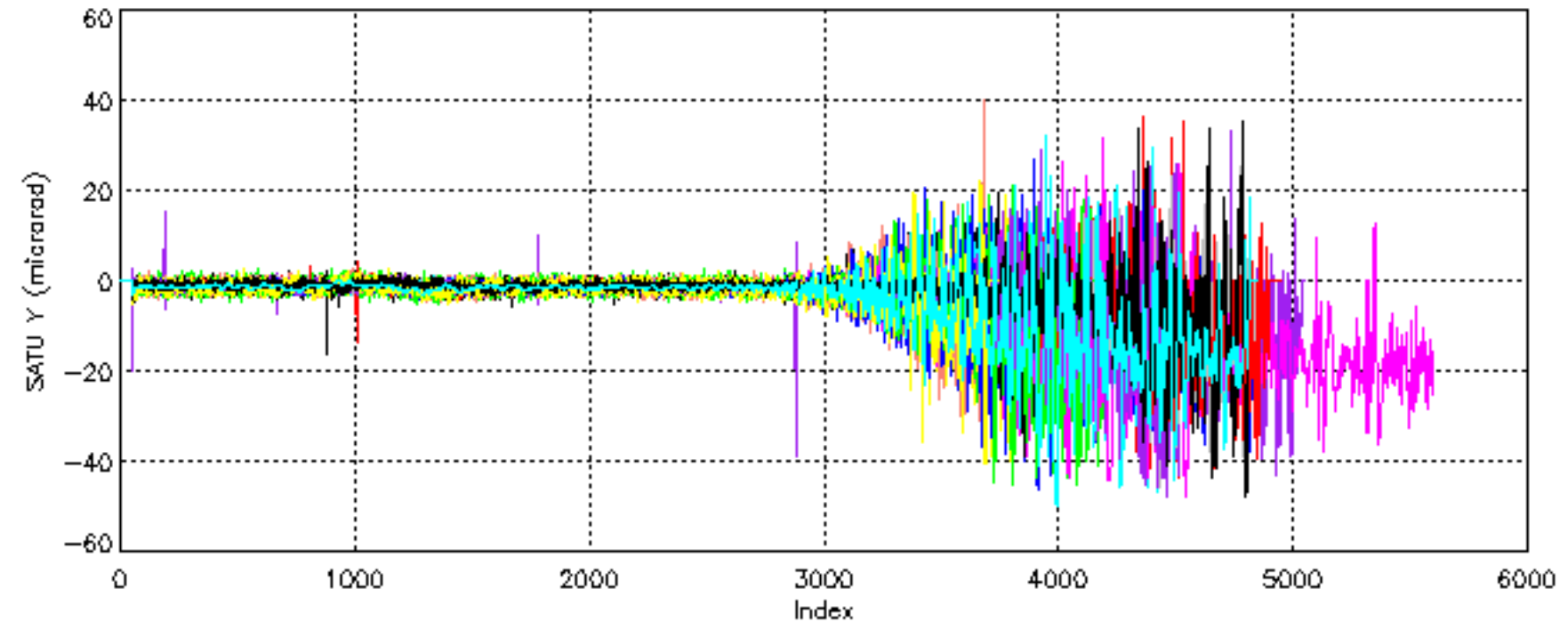
Tangent altitude at which the star is lost

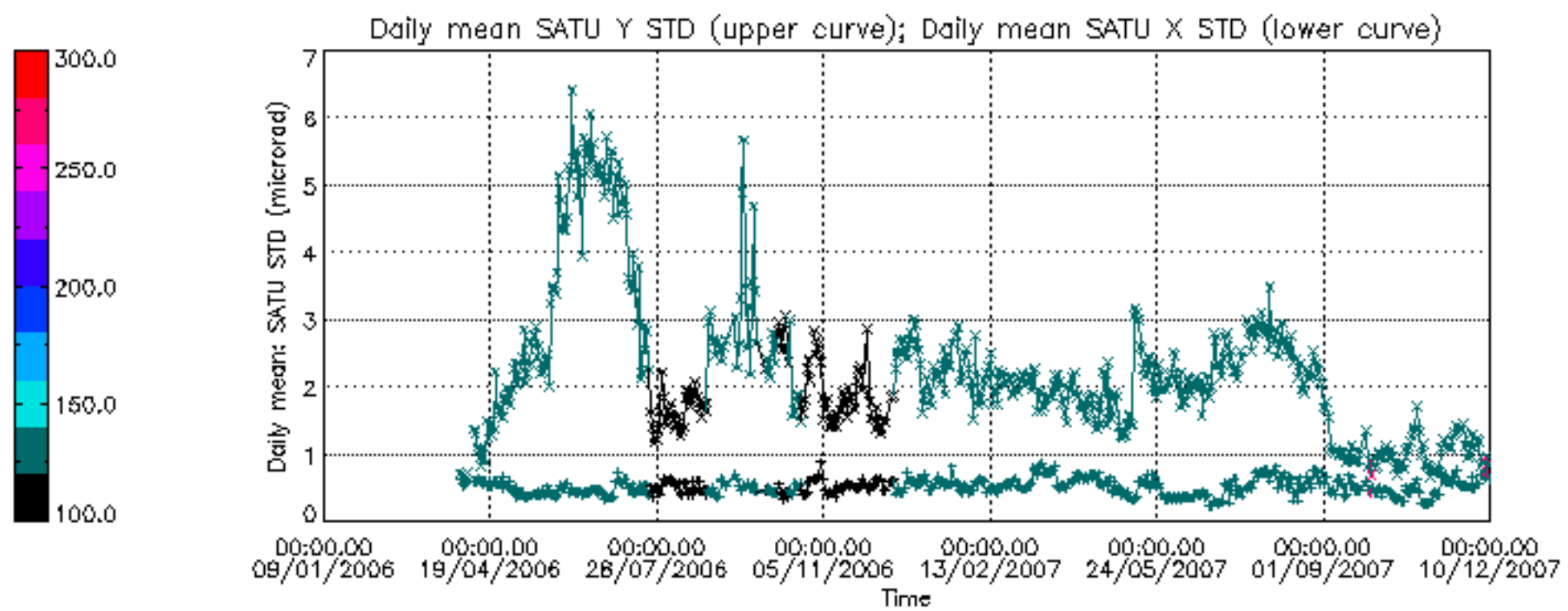


Tangent altitude at which the star is lost









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 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
 5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073
 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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 11; 1658.7; 01-DEC-2007 01:42:34; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;30074
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 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
 16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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 6; -1177.6; 01-DEC-2007 04:16:30; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30075
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 13; 84.5; 01-DEC-2007 04:37:32; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30076
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 21; 2472.0; 01-DEC-2007 05:17:19; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30076


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22; 2605.8; 01-DEC-2007 05:19:33; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;30076
23; 2739.1; 01-DEC-2007 05:21:46; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30076
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13; 85.3; 01-DEC-2007 06:18:08; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;30077
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9; 466.4; 13-DEC-2007 01:45:42; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30246
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3;	2191.6;	15-DEC-2007	14:36:01;	Dark	;	54.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	108;	0;	30282
4;	2320.7;	15-DEC-2007	14:38:10;	Bright	;	35.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	70;	0;	30282
5;	2450.9;	15-DEC-2007	14:40:20;	Bright	;	34.5;	150;	44Zet	Per	;	2.89;	28000;	occ;	69;	0;	30282
6;	2588.8;	15-DEC-2007	14:42:38;	Bright	;	35.0;	149;	45Eps	Per	;	2.89;	30000;	occ;	70;	0;	30282
7;	2719.9;	15-DEC-2007	14:44:49;	Bright	;	34.0;	175;	39Del	Per	;	3.01;	19400;	occ;	68;	0;	30282
8;	2824.5;	15-DEC-2007	14:46:34;	Bright	;	34.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	68;	0;	30282
9;	3422.3;	15-DEC-2007	14:56:31;	Bright	;	32.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	65;	0;	30282
10;	3705.1;	15-DEC-2007	15:01:14;	Bright	;	36.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	72;	0;	30282
11;	4138.3;	15-DEC-2007	15:08:28;	Bright	;	38.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	76;	0;	30282
12;	4337.2;	15-DEC-2007	15:11:46;	Bright	;	34.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	69;	0;	30282
13;	4528.9;	15-DEC-2007	15:14:58;	Bright	;	36.5;	83;			;	2.38;	11000;	occ;	73;	0;	30282
14;	4726.6;	15-DEC-2007	15:18:16;	Bright	;	40.0;	111;	8Eta	Boo	;	2.68;	6000;	occ;	80;	0;	30282
15;	5527.7;	15-DEC-2007	15:31:37;	Dark	;	46.5;	169;	46Gam	Hya	;	2.99;	4700;	occ;	93;	0;	30282
16;	5631.1;	15-DEC-2007	15:33:20;	Dark	;	48.5;	54;	5The	Cen	;	2.06;	4500;	occ;	97;	0;	30282
17;	5722.4;	15-DEC-2007	15:34:52;	Dark	;	42.0;	123;	Iot	Cen	;	2.75;	10200;	occ;	84;	0;	30282
18;	5812.1;	15-DEC-2007	15:36:21;	Dark	;	38.5;	95;	Zet	Cen	;	2.55;	26000;	occ;	77;	0;	30282
19;	5969.3;	15-DEC-2007	15:38:58;	Dark	;	39.0;	64;	Gam	Cen	;	2.20;	10600;	occ;	78;	0;	30282
20;	6082.1;	15-DEC-2007	15:40:51;	Dark	;	41.0;	20;	Bet	Cru	;	1.25;	30000;	occ;	82;	0;	30282
21;	6341.0;	15-DEC-2007	15:45:10;	Dark	;	37.5;	124;	The	Car	;	2.76;	30000;	occ;	75;	0;	30282
22;	6445.6;	15-DEC-2007	15:46:55;	Dark	;	38.0;	159;	Ups	Car	;	2.92;	7200;	occ;	76;	0;	30282
23;	6525.4;	15-DEC-2007	15:48:15;	Dark	;	40.5;	71;	Iot	Car	;	2.25;	7700;	occ;	81;	0;	30282
24;	6641.0;	15-DEC-2007	15:50:10;	Dark	;	42.0;	41;	Eps	Car	;	1.86;	4100;	occ;	84;	0;	30282
25;	6872.9;	15-DEC-2007	15:54:02;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	30282
26;	7298.7;	15-DEC-2007	16:01:08;	Dark	;	41.5;	108;	Alp	Col	;	2.65;	15200;	occ;	83;	0;	30282

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1;	1291.8;	15-DEC-2007	16:01:37;	Dark	;	42.0;	108;	Alp	Col	;	2.65;	15200;	occ;	84;	58;	30283
2;	1563.9;	15-DEC-2007	16:06:09;	Dark	;	46.0;	101;	11Alp	Lep	;	2.58;	7000;	occ;	92;	0;	30283
3;	1749.7;	15-DEC-2007	16:09:15;	Dark	;	53.5;	7;	19Bet	Ori	;	0.10;	14000;	occ;	107;	0;	30283
4;	2191.5;	15-DEC-2007	16:16:37;	Dark	;	52.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	104;	0;	30283
5;	2320.6;	15-DEC-2007	16:18:46;	Bright	;	34.5;	146;	25Eta	Tau	;	2.87;	15200;	occ;	69;	0;	30283
6;	2450.8;	15-DEC-2007	16:20:56;	Bright	;	36.5;	150;	44Zet	Per	;	2.89;	28000;	occ;	73;	0;	30283
7;	2588.7;	15-DEC-2007	16:23:14;	Bright	;	34.5;	149;	45Eps	Per	;	2.89;	30000;	occ;	69;	0;	30283
8;	2719.7;	15-DEC-2007	16:25:25;	Bright	;	34.0;	175;	39Del	Per	;	3.01;	19400;	occ;	68;	0;	30283
9;	2824.5;	15-DEC-2007	16:27:10;	Bright	;	46.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	93;	0;	30283
10;	3422.2;	15-DEC-2007	16:37:07;	Bright	;	36.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	73;	0;	30283
11;	3705.1;	15-DEC-2007	16:41:50;	Bright	;	35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	30283
12;	4138.3;	15-DEC-2007	16:49:03;	Bright	;	43.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	86;	0;	30283
13;	4337.4;	15-DEC-2007	16:52:23;	Bright	;	40.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	81;	0;	30283
14;	4528.9;	15-DEC-2007	16:55:34;	Bright	;	35.5;	83;			;	2.38;	11000;	occ;	71;	0;	30283
15;	4726.9;	15-DEC-2007	16:58:52;	Bright	;	39.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	79;	0;	30283
16;	5528.4;	15-DEC-2007	17:12:14;	Dark	;	47.0;	169;	46Gam	Hya	;	2.99;	4700;	occ;	94;	0;	30283
17;	5631.5;	15-DEC-2007	17:13:57;	Dark	;	43.0;	54;	5The	Cen	;	2.06;	4500;	occ;	86;	0;	30283
18;	5722.9;	15-DEC-2007	17:15:28;	Dark	;	40.0;	123;	Iot	Cen	;	2.75;	10200;	occ;	80;	0;	30283
19;	5812.6;	15-DEC-2007	17:16:58;	Dark	;	37.0;	95;	Zet	Cen	;	2.55;	26000;	occ;	74;	0;	30283
20;	5970.0;	15-DEC-2007	17:19:35;	Dark	;	41.0;	64;	Gam	Cen	;	2.20;	10600;	occ;	82;	0;	30283
21;	6082.5;	15-DEC-2007	17:21:28;	Dark	;	41.5;	20;	Bet	Cru	;	1.25;	30000;	occ;	83;	0;	30283
22;	6341.7;	15-DEC-2007	17:25:47;	Dark	;	38.0;	124;	The	Car	;	2.76;	30000;	occ;	76;	0;	30283
23;	6446.3;	15-DEC-2007	17:27:31;	Dark	;	39.0;	159;	Ups	Car	;	2.92;	7200;	occ;	78;	0;	30283
24;	6526.2;	15-DEC-2007	17:28:51;	Dark	;	40.0;	71;	Iot	Car	;	2.25;	7700;	occ;	80;	0;	30283
25;	6641.5;	15-DEC-2007	17:30:47;	Dark	;	50.0;	41;	Eps	Car	;	1.86;	4100;	occ;	100;	0;	30283
26;	6873.5;	15-DEC-2007	17:34:39;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	30283

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2;	1564.0;	15-DEC-2007	17:46:45;	Dark	;	46.0;	101;	11Alp	Lep	;	2.58;	7000;	occ;	92;	0;	30284
3;	1749.8;	15-DEC-2007	17:49:51;	Dark	;	51.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	102;	0;	30284
4;	2191.4;	15-DEC-2007	17:57:13;	Dark	;	53.5;	13;	87Alp	Tau	;	0.87;	3800;	occ;	107;	0;	30284
5;	2320.7;	15-DEC-2007	17:59:22;	Bright	;	35.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	70;	0;	30284
6;	2450.7;	15-DEC-2007	18:01:32;	Bright	;	35.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	70;	0;	30284
7;	2588.6;	15-DEC-2007	18:03:50;	Bright	;	35.5;	149;	45Eps	Per	;	2.89;	30000;	occ;	71;	0;	30284
8;	2719.8;	15-DEC-2007	18:06:01;	Bright	;	33.5;	175;	39Del	Per	;	3.01;	19400;	occ;	67;	0;	30284
9;	2824.5;	15-DEC-2007	18:07:46;	Bright	;	36.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	73;	0;	30284
10;	3422.2;	15-DEC-2007	18:17:43;	Bright	;	35.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	70;	0;	30284
11;	3705.0;	15-DEC-2007	18:22:26;	Bright	;	37.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	75;	0;	30284
12;	4138.2;	15-DEC-2007	18:29:39;	Bright	;	40.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	81;	0;	30284
13;	4337.1;	15-DEC-2007	18:32:58;	Bright	;	54.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	108;	0;	30284

14; 4529.1; 15-DEC-2007 18:36:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;30284
 15; 4727.1; 15-DEC-2007 18:39:28; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30284
 16; 5529.1; 15-DEC-2007 18:52:50; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;30284
 17; 5631.9; 15-DEC-2007 18:54:33; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;30284
 18; 5723.6; 15-DEC-2007 18:56:05; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0;30284
 19; 5812.9; 15-DEC-2007 18:57:34; Dark ; 37.0; 95; Zet Cen ; 2.55; 26000;occ; 74; 0;30284
 20; 5970.5; 15-DEC-2007 19:00:12; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;30284
 21; 6082.9; 15-DEC-2007 19:02:04; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;30284
 22; 6342.0; 15-DEC-2007 19:06:23; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30284
 23; 6446.7; 15-DEC-2007 19:08:08; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30284
 24; 6526.7; 15-DEC-2007 19:09:28; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30284
 25; 6642.0; 15-DEC-2007 19:11:23; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30284
 26; 6874.0; 15-DEC-2007 19:15:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30284

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 3; 1749.7; 15-DEC-2007 19:30:27; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;30285
 4; 2191.3; 15-DEC-2007 19:37:49; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30285
 5; 2320.7; 15-DEC-2007 19:39:58; Bright; 35.0; 146; 25Eta Tau ; 2.87; 15200;occ; 70; 0;30285
 6; 2450.8; 15-DEC-2007 19:42:08; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30285
 7; 2588.6; 15-DEC-2007 19:44:26; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30285
 8; 2719.8; 15-DEC-2007 19:46:37; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30285
 9; 2824.6; 15-DEC-2007 19:48:22; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30285
 10; 3422.3; 15-DEC-2007 19:58:19; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30285
 11; 3704.9; 15-DEC-2007 20:03:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30285
 12; 4138.1; 15-DEC-2007 20:10:15; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;30285
 13; 4337.2; 15-DEC-2007 20:13:34; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;30285
 14; 4529.3; 15-DEC-2007 20:16:46; Bright; 34.5; 83; ; 2.38; 11000;occ; 69; 0;30285
 15; 4727.4; 15-DEC-2007 20:20:05; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;30285
 16; 5529.8; 15-DEC-2007 20:33:27; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;30285
 17; 5632.2; 15-DEC-2007 20:35:09; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;30285
 18; 5723.9; 15-DEC-2007 20:36:41; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;30285
 19; 5813.2; 15-DEC-2007 20:38:10; Dark ; 37.0; 95; Zet Cen ; 2.55; 26000;occ; 74; 0;30285
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 21; 6083.2; 15-DEC-2007 20:42:40; Dark ; 37.5; 20; Bet Cru ; 1.25; 30000;occ; 75; 0;30285
 22; 6342.4; 15-DEC-2007 20:47:00; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30285
 23; 6447.2; 15-DEC-2007 20:48:44; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30285
 24; 6527.2; 15-DEC-2007 20:50:04; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30285
 25; 6608.1; 15-DEC-2007 20:51:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30285
 26; 6937.0; 15-DEC-2007 20:56:54; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;30285

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 6; 47.7; 15-DEC-2007 22:23:17; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;30287
 7; 307.0; 15-DEC-2007 22:27:36; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30287
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 10; 572.9; 15-DEC-2007 22:32:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30287
 11; 901.4; 15-DEC-2007 22:37:30; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;30287
 12; 1263.8; 15-DEC-2007 22:43:33; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;30287
 13; 1564.3; 15-DEC-2007 22:48:33; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;30287
 14; 1749.8; 15-DEC-2007 22:51:39; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;30287
 15; 2191.2; 15-DEC-2007 22:59:00; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;30287
 16; 2320.8; 15-DEC-2007 23:01:10; Bright; 37.0; 146; 25Eta Tau ; 2.87; 15200;occ; 74; 0;30287
 17; 2450.8; 15-DEC-2007 23:03:20; Bright; 34.5; 150; 44Zet Per ; 2.89; 28000;occ; 69; 0;30287
 18; 2588.4; 15-DEC-2007 23:05:37; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30287
 19; 2719.8; 15-DEC-2007 23:07:49; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;30287
 20; 2824.8; 15-DEC-2007 23:09:34; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;30287
 21; 3422.1; 15-DEC-2007 23:19:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30287
 22; 3704.9; 15-DEC-2007 23:24:14; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30287
 23; 4138.0; 15-DEC-2007 23:31:27; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;30287
 24; 4337.4; 15-DEC-2007 23:34:46; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;30287
 25; 4529.6; 15-DEC-2007 23:37:59; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;30287
 26; 4727.9; 15-DEC-2007 23:41:17; Bright; 49.5; 111; 8Eta Boo ; 2.68; 6000;occ; 99; 0;30287

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7; 307.4; 16-DEC-2007 00:08:12; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30288
8; 412.1; 16-DEC-2007 00:09:57; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30288
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 23; 6525.7; 26-DEC-2007 20:04:04; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;30442
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5;	376.6;	27-DEC-2007	01:03:59;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30446
6;	491.3;	27-DEC-2007	01:05:54;	Dark	;	39.0;	159;	Ups Car	;	2.92;	7200;occ;	78;	0;	30446
7;	587.2;	27-DEC-2007	01:07:29;	Dark	;	43.0;	71;	Iot Car	;	2.25;	7700;occ;	86;	0;	30446
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21;	3917.1;	27-DEC-2007	02:02:59;	Bright;	;	35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	30446
22;	4409.2;	27-DEC-2007	02:11:11;	Bright;	;	50.0;	133;	40Zet Her	;	2.81;	6000;occ;	100;	0;	30446
23;	4532.3;	27-DEC-2007	02:13:15;	Bright;	;	35.5;	67;	5Alp CrB	;	2.22;	11000;occ;	71;	0;	30446
24;	4869.5;	27-DEC-2007	02:18:52;	Bright;	;	33.5;	102;	24Alp Ser	;	2.60;	4250;occ;	67;	0;	30446
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5;	-22.9;	27-DEC-2007	02:37:55;	Dark	;	40.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	81;	0;	30446
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8;	491.8;	27-DEC-2007	02:46:30;	Dark	;	38.0;	159;	Ups Car	;	2.92;	7200;occ;	76;	0;	30447
9;	587.9;	27-DEC-2007	02:48:06;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;occ;	82;	0;	30447
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19;	2598.5;	27-DEC-2007	03:21:37;	Bright;	;	34.0;	149;	45Eps Per	;	2.89;	30000;occ;	68;	0;	30447
20;	2702.6;	27-DEC-2007	03:23:21;	Bright;	;	42.0;	6;	13Alp Aur	;	0.08;	3400;occ;	84;	0;	30447
21;	3423.0;	27-DEC-2007	03:35:21;	Bright;	;	34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	30447
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9;	-223.7;	27-DEC-2007	04:15:10;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	30447
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12;	191.6;	27-DEC-2007	04:22:06;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	30448
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