

GOMOS Daily Report 25-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	27DEC2007 05:57:00
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (25DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26DEC2007 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)

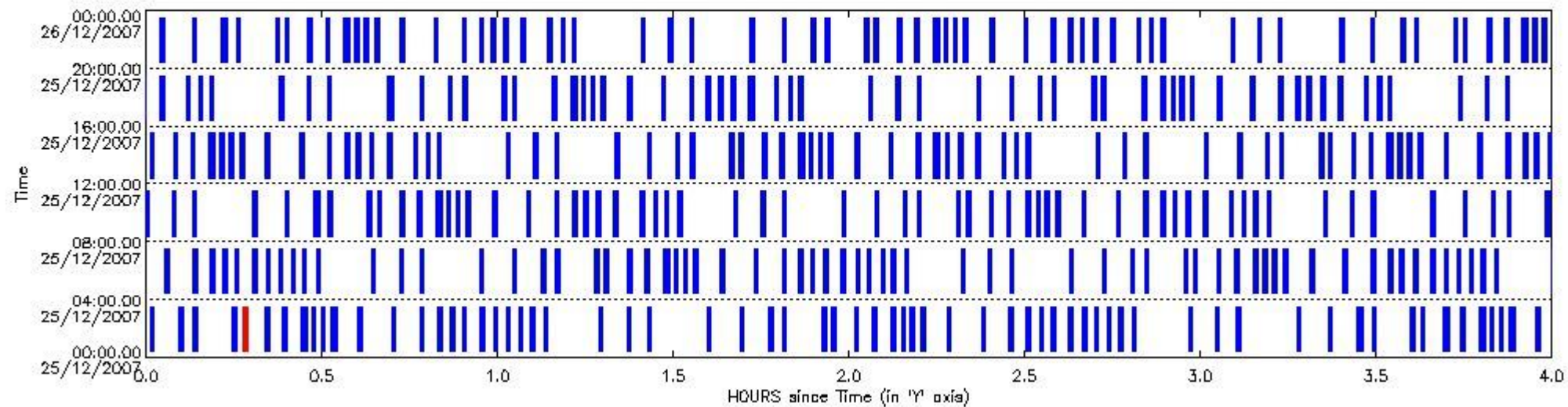
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

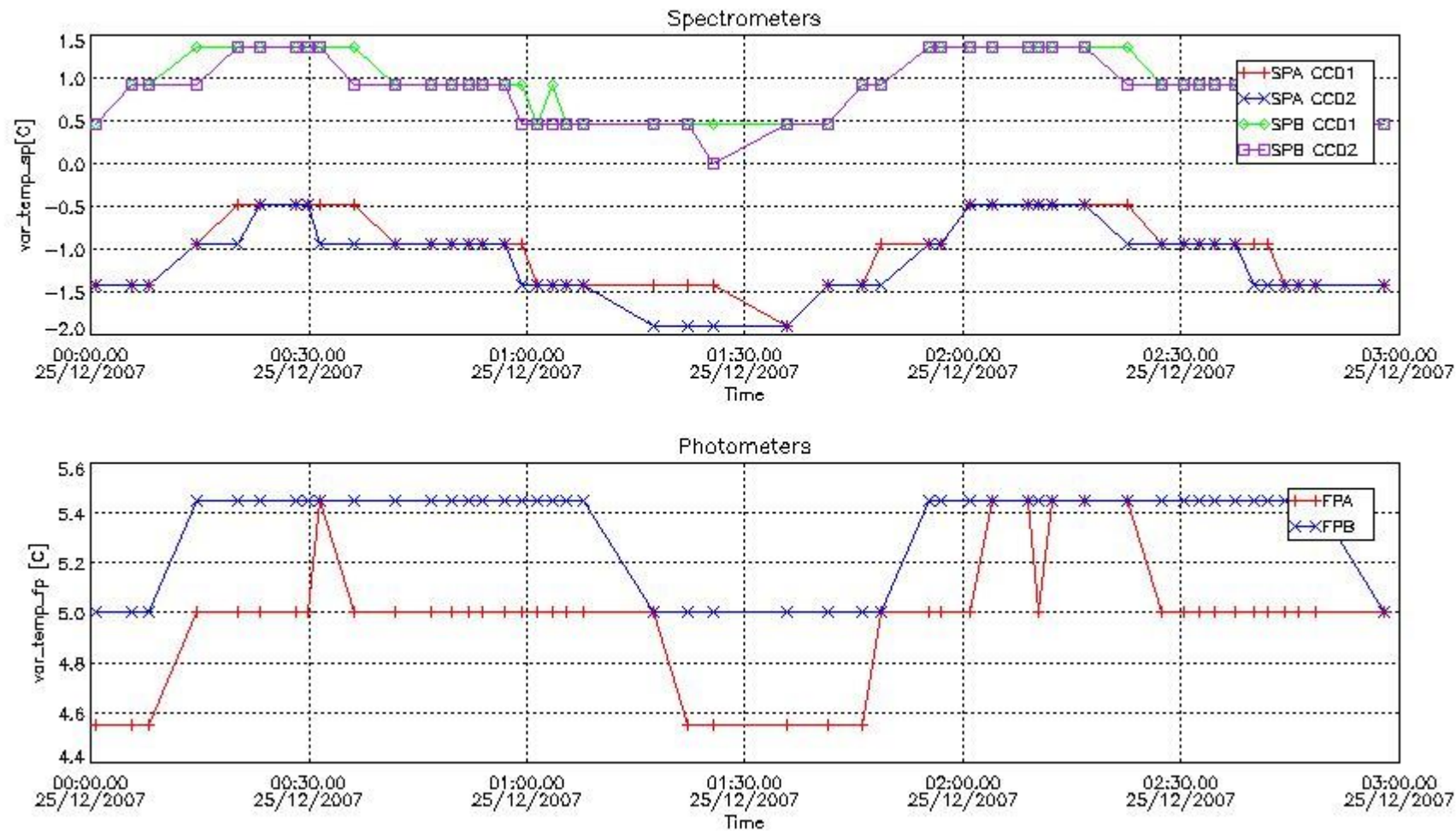
UTC start time	Star name	Star ID	Orbit
25-DEC-2007 00:16:24	AlpLup	78	30416

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_1PNPDE20071225_000047_000000342064_00302_30416_0404.N1	25-DEC-2007 00:00:47	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	30416	No
2	GOM_TRA_1PNPDE20071225_000537_000000362064_00302_30416_0405.N1	25-DEC-2007 00:05:37	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	30416	No
3	GOM_TRA_1PNPDE20071225_000802_000000382064_00302_30416_0520.N1	25-DEC-2007 00:08:02	Bright	37.500	122	9Alp2Lib	2.7470	9700.0	75	30416	No
4	GOM_TRA_1PNPDE20071225_001442_000000432064_00302_30416_0521.N1	25-DEC-2007 00:14:42	Dark	42.500	54	5The Cen	2.0550	4500.0	85	30416	No
5	GOM_TRA_1PNPDE20071225_002020_000000502064_00303_30417_0522.N1	25-DEC-2007 00:20:20	Dark	49.500	10	Bet Cen	0.61000	28000.	99	30417	No
6	GOM_TRA_1PNPDE20071225_002317_000000412064_00303_30417_0523.N1	25-DEC-2007 00:23:17	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	30417	No
7	GOM_TRA_1PNPDE20071225_002817_000000392064_00303_30417_0524.N1	25-DEC-2007 00:28:17	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30417	No
8	GOM_TRA_1PNPDE20071225_002951_000000422064_00303_30417_0525.N1	25-DEC-2007 00:29:51	Dark	41.500	71	lot Car	2.2460	7700.0	83	30417	No
9	GOM_TRA_1PNPDE20071225_003136_000000522064_00303_30417_0526.N1	25-DEC-2007 00:31:36	Dark	52.000	41	Eps Car	1.8600	4100.0	104	30417	No
10	GOM_TRA_1PNPDE20071225_003608_000000452064_00303_30417_0527.N1	25-DEC-2007 00:36:08	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30417	No

11	GOM_TRA_1PNPDE20071225_004158_000000392064_00303_30417_0528.N1	25-DEC-2007 00:41:58	Straylight	38.500	108	Alp Col	2.6520	15200.	77	30417	No
12	GOM_TRA_1PNPDE20071225_004643_000000422064_00303_30417_0529.N1	25-DEC-2007 00:46:43	Straylight	41.500	101	11Alp Lep	2.5820	7000.0	83	30417	No
13	GOM_TRA_1PNPDE20071225_004938_000000472064_00303_30417_0530.N1	25-DEC-2007 00:49:38	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	30417	No
14	GOM_TRA_1PNPDE20071225_005155_000000412064_00303_30417_0531.N1	25-DEC-2007 00:51:55	Straylight	41.000	72	34Del Ori	2.2500	30000.	82	30417	No
15	GOM_TRA_1PNPDE20071225_005354_000000452064_00303_30417_0532.N1	25-DEC-2007 00:53:54	Tw_i_and_stray	45.000	27	24Gam Ori	1.6360	26000.	90	30417	No
16	GOM_TRA_1PNPDE20071225_005650_000000522064_00303_30417_0533.N1	25-DEC-2007 00:56:50	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30417	No
17	GOM_TRA_1PNPDE20071225_005919_000000362064_00303_30417_0534.N1	25-DEC-2007 00:59:19	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30417	No
18	GOM_TRA_1PNPDE20071225_010122_000000362064_00303_30417_0535.N1	25-DEC-2007 01:01:22	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30417	No
19	GOM_TRA_1PNPDE20071225_010335_000000332064_00303_30417_0536.N1	25-DEC-2007 01:03:35	Bright	33.000	149	45Eps Per	2.8880	30000.	66	30417	No
20	GOM_TRA_1PNPDE20071225_010528_000000442064_00303_30417_0537.N1	25-DEC-2007 01:05:28	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	30417	No
21	GOM_TRA_1PNPDE20071225_010748_000000342064_00303_30417_0538.N1	25-DEC-2007 01:07:48	Bright	33.500	160	23Gam Per	2.9300	4700.0	67	30417	No
22	GOM_TRA_1PNPDE20071225_011723_000000352064_00303_30417_0539.N1	25-DEC-2007 01:17:23	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30417	No
23	GOM_TRA_1PNPDE20071225_012200_000000382064_00303_30417_0540.N1	25-DEC-2007 01:22:00	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30417	No
24	GOM_TRA_1PNPDE20071225_012535_000000362064_00303_30417_0541.N1	25-DEC-2007 01:25:35	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30417	No
25	GOM_TRA_1PNPDE20071225_013547_000000352064_00303_30417_0542.N1	25-DEC-2007 01:35:47	Bright	35.000	67	5Alp CrB	2.2210	11000.	70	30417	No
26	GOM_TRA_1PNPDE20071225_014123_000000332064_00303_30417_0543.N1	25-DEC-2007 01:41:23	Bright	33.000	102	24Alp Ser	2.6000	4250.0	66	30417	No
27	GOM_TRA_1PNPDE20071225_014613_000000532064_00303_30417_0688.N1	25-DEC-2007 01:46:13	Bright	53.000	104	27Bet Lib	2.6140	13100.	106	30417	No
28	GOM_TRA_1PNPDE20071225_014839_000000382064_00303_30417_0689.N1	25-DEC-2007 01:48:39	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	30417	No
29	GOM_TRA_1PNPDE20071225_015518_000000442064_00303_30417_0690.N1	25-DEC-2007 01:55:18	Dark	44.000	54	5The Cen	2.0550	4500.0	88	30417	No
30	GOM_TRA_1PNPDE20071225_015701_000000372064_00303_30417_0691.N1	25-DEC-2007 01:57:01	Dark	36.500	78	Alp Lup	2.3040	28000.	73	30417	No
31	GOM_TRA_1PNPDE20071225_020057_000000392064_00304_30418_0692.N1	25-DEC-2007 02:00:57	Dark	39.000	10	Bet Cen	0.61000	28000.	78	30418	No
32	GOM_TRA_1PNPDE20071225_020353_000000452064_00304_30418_0693.N1	25-DEC-2007 02:03:53	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	30418	No
33	GOM_TRA_1PNPDE20071225_020853_000000392064_00304_30418_0694.N1	25-DEC-2007 02:08:53	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30418	No
34	GOM_TRA_1PNPDE20071225_021027_000000422064_00304_30418_0695.N1	25-DEC-2007 02:10:27	Dark	41.500	71	lot Car	2.2460	7700.0	83	30418	No
35	GOM_TRA_1PNPDE20071225_021212_000000502064_00304_30418_0696.N1	25-DEC-2007 02:12:12	Dark	50.000	41	Eps Car	1.8600	4100.0	100	30418	No
36	GOM_TRA_1PNPDE20071225_021644_000000432064_00304_30418_0697.N1	25-DEC-2007 02:16:44	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	30418	No
37	GOM_TRA_1PNPDE20071225_022234_000000382064_00304_30418_0698.N1	25-DEC-2007 02:22:34	Straylight	38.000	108	Alp Col	2.6520	15200.	76	30418	No
38	GOM_TRA_1PNPDE20071225_022719_000000422064_00304_30418_0699.N1	25-DEC-2007 02:27:19	Straylight	41.500	101	11Alp Lep	2.5820	7000.0	83	30418	No
39	GOM_TRA_1PNPDE20071225_023014_000000452064_00304_30418_0700.N1	25-DEC-2007 02:30:14	Straylight	45.000	7	19Bet Ori	0.10000	14000.	90	30418	No
40	GOM_TRA_1PNPDE20071225_023231_000000412064_00304_30418_0701.N1	25-DEC-2007 02:32:31	Straylight	41.000	72	34Del Ori	2.2500	30000.	82	30418	No
41	GOM_TRA_1PNPDE20071225_023430_000000432064_00304_30418_0702.N1	25-DEC-2007 02:34:30	Tw_i_and_stray	43.000	27	24Gam Ori	1.6360	26000.	86	30418	No
42	GOM_TRA_1PNPDE20071225_023726_000000512064_00304_30418_0703.N1	25-DEC-2007 02:37:26	Bright	50.500	13	87Alp Tau	0.86700	3800.0	101	30418	No
43	GOM_TRA_1PNPDE20071225_023955_000000372064_00304_30418_0704.N1	25-DEC-2007 02:39:55	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30418	No
44	GOM_TRA_1PNPDE20071225_024158_000000372064_00304_30418_0705.N1	25-DEC-2007 02:41:58	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30418	No
45	GOM_TRA_1PNPDE20071225_024411_000000342064_00304_30418_0706.N1	25-DEC-2007 02:44:11	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30418	No
46	GOM_TRA_1PNPDE20071225_024604_000000442064_00304_30418_0707.N1	25-DEC-2007 02:46:04	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	30418	No
47	GOM_TRA_1PNPDE20071225_024824_000000352064_00304_30418_0708.N1	25-DEC-2007 02:48:24	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	30418	No
48	GOM_TRA_1PNPDE20071225_025759_000000322064_00304_30418_0709.N1	25-DEC-2007 02:57:59	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	30418	No

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



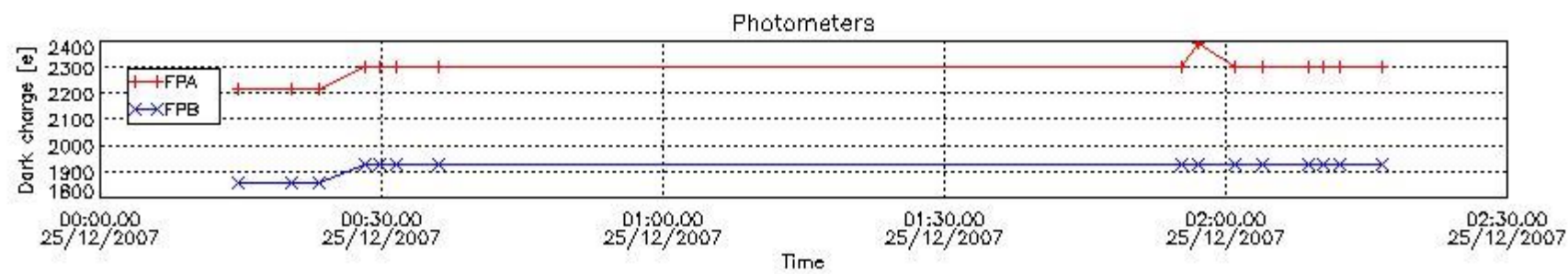
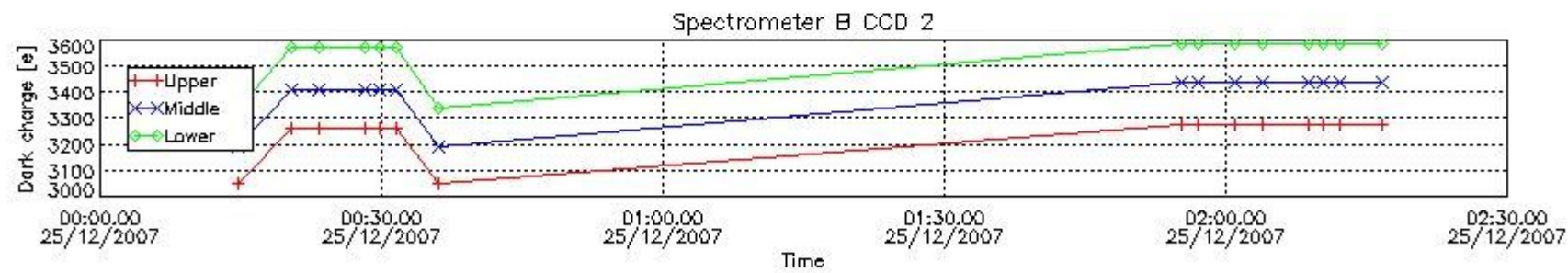
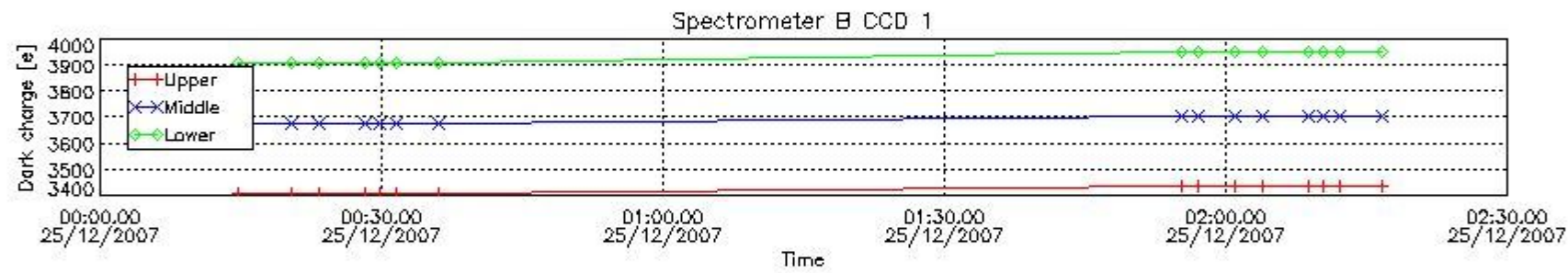
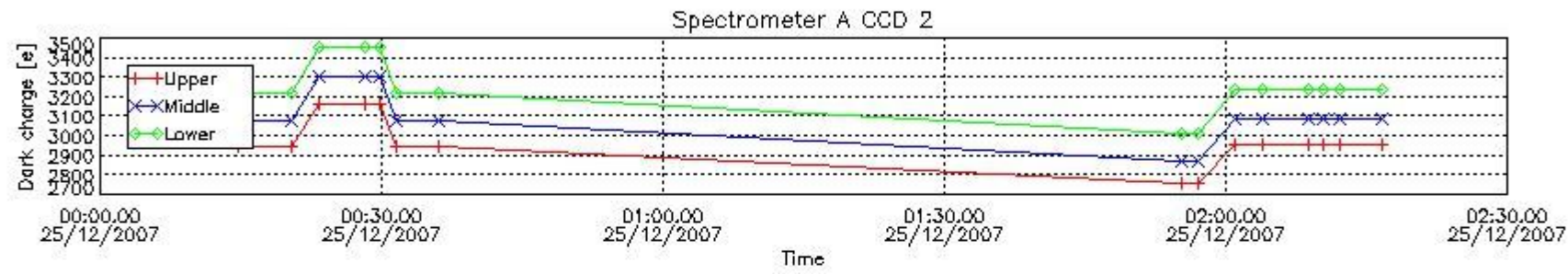
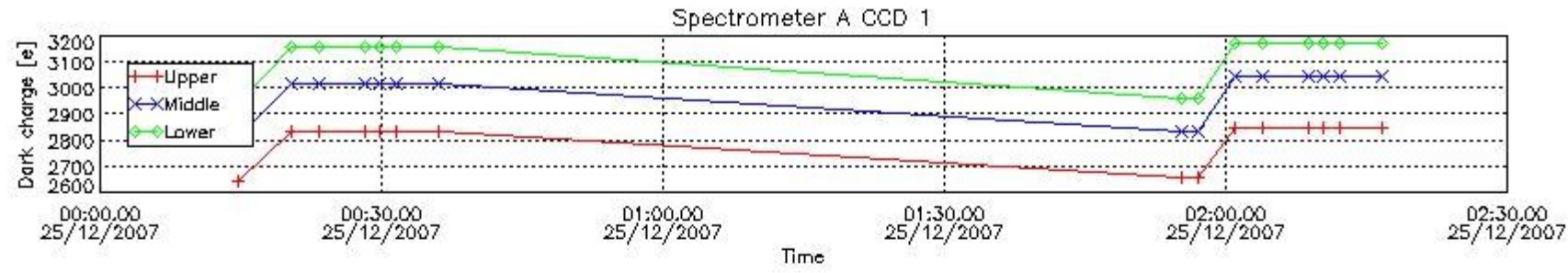
4. Overview of dark signal processing per product

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



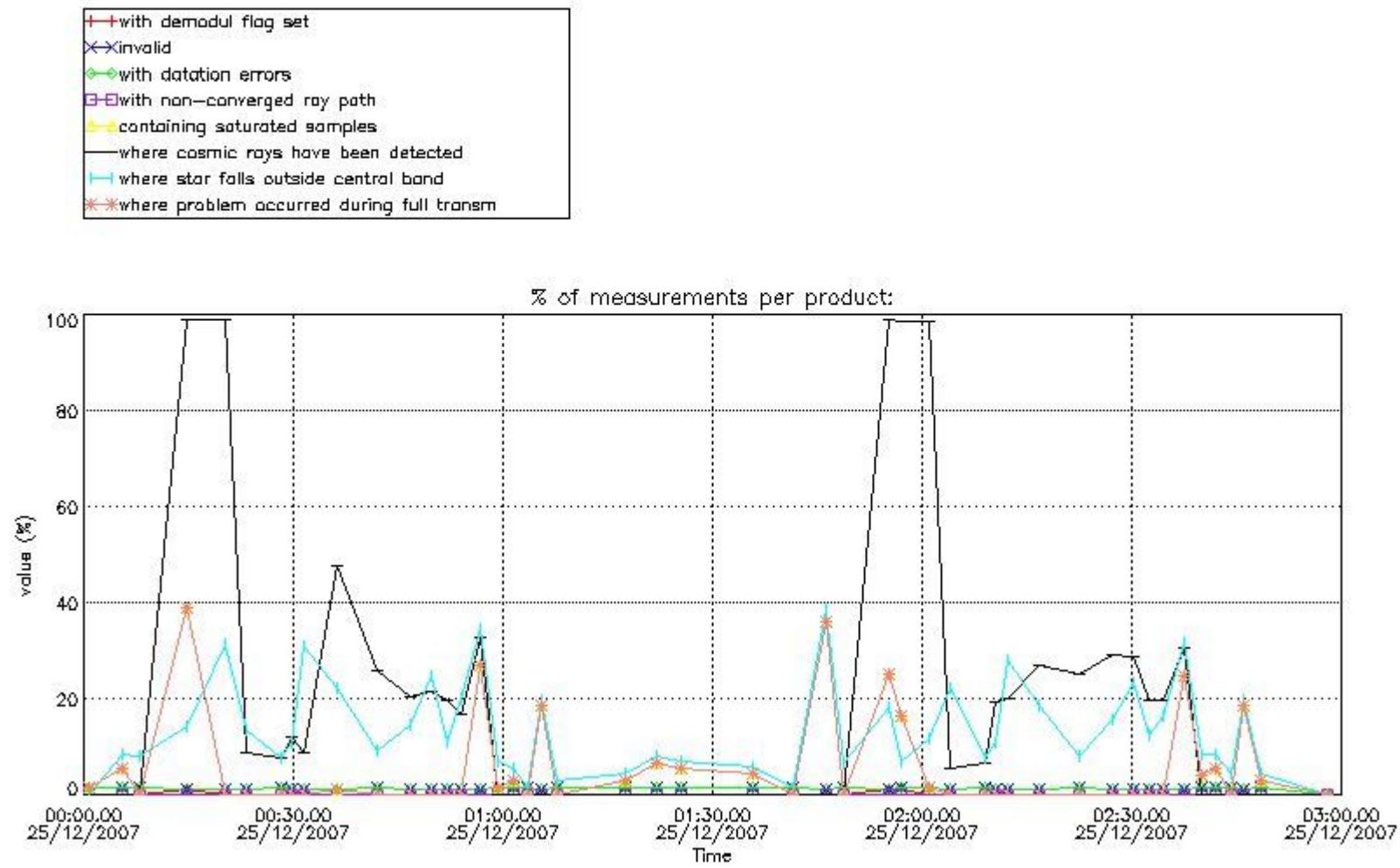
5. Demodulation flag and quality information monitoring

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.

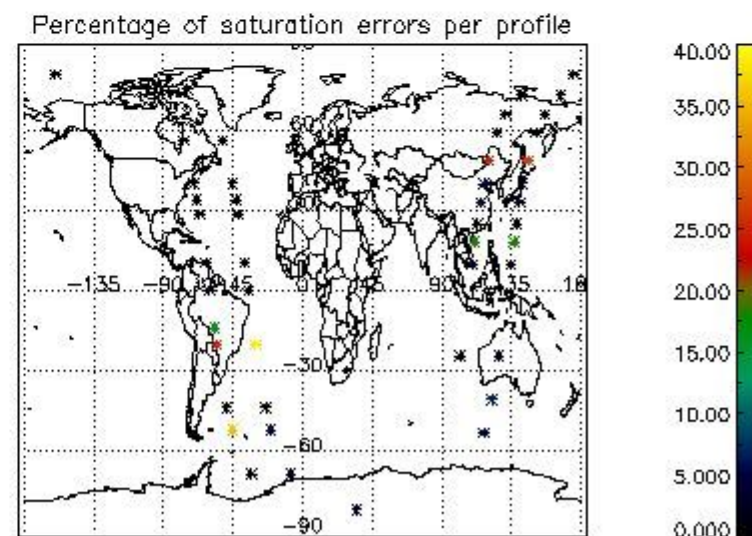
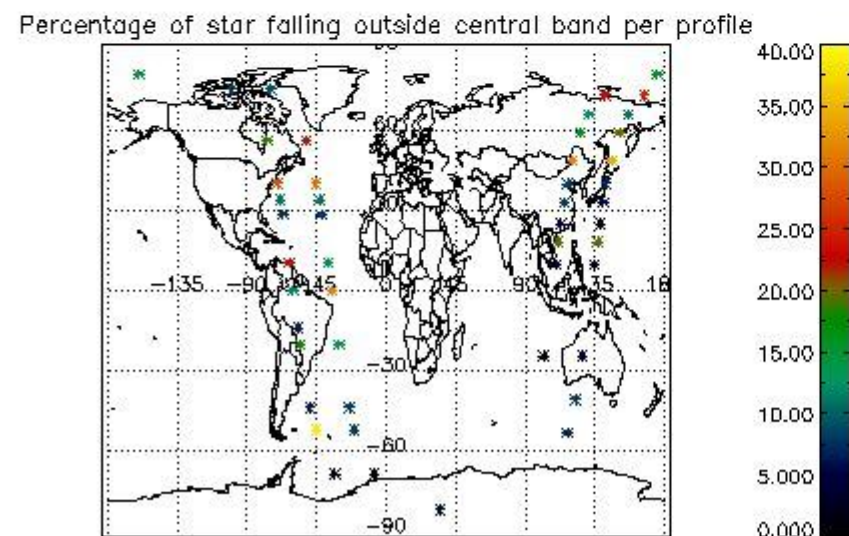
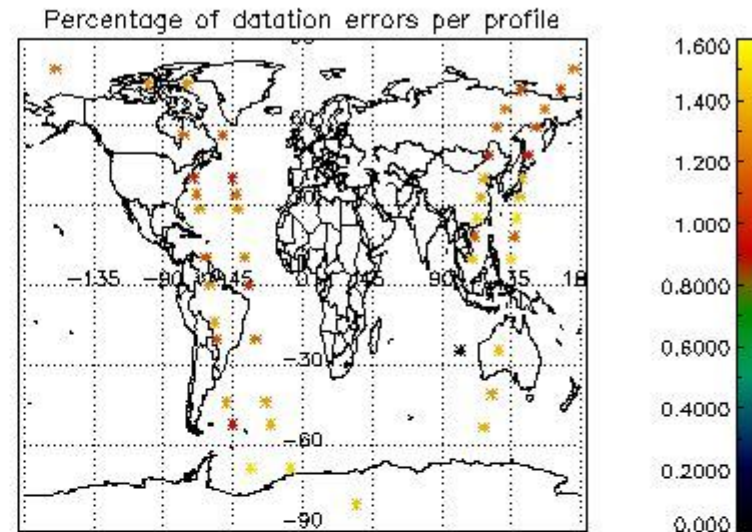
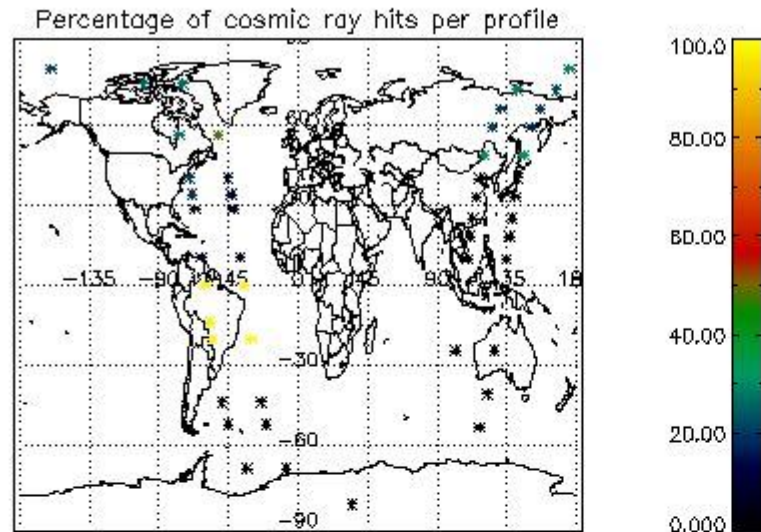
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.4167 %
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)



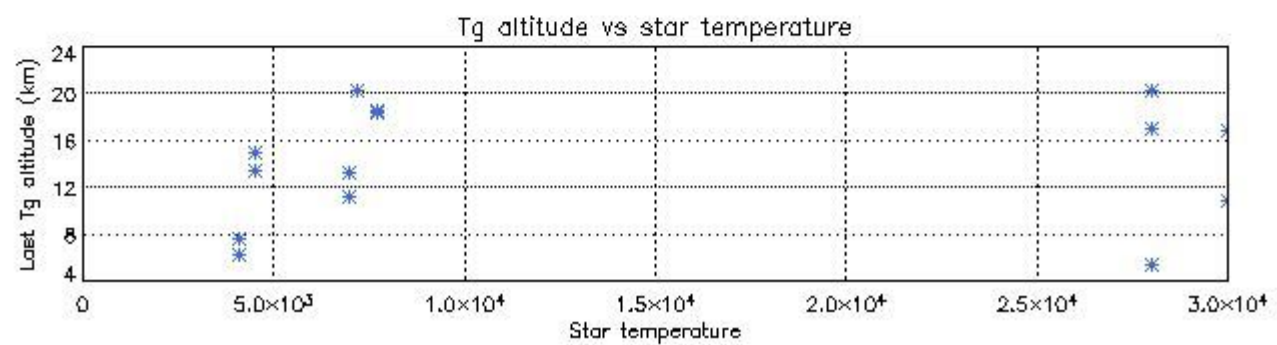
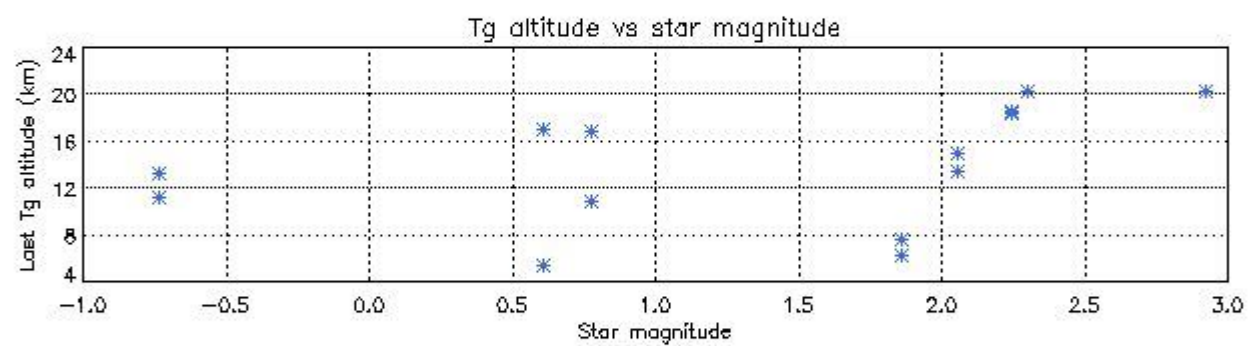
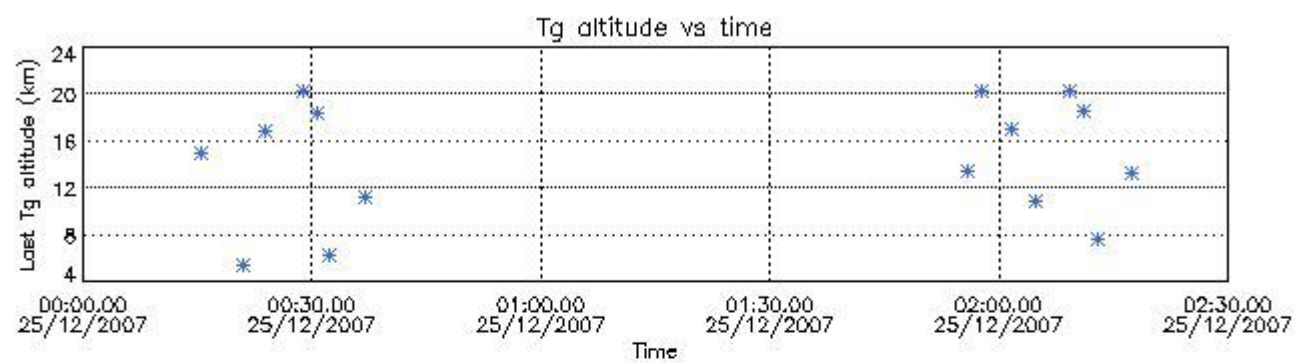
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.285	19.351	NaN
St. deviation:	5.1259	6.9910	NaN
Maximum:	20.318	30.210	NaN
Minimum:	5.3993	3.6850	NaN
Number of data:	15.000	23.000	NaN

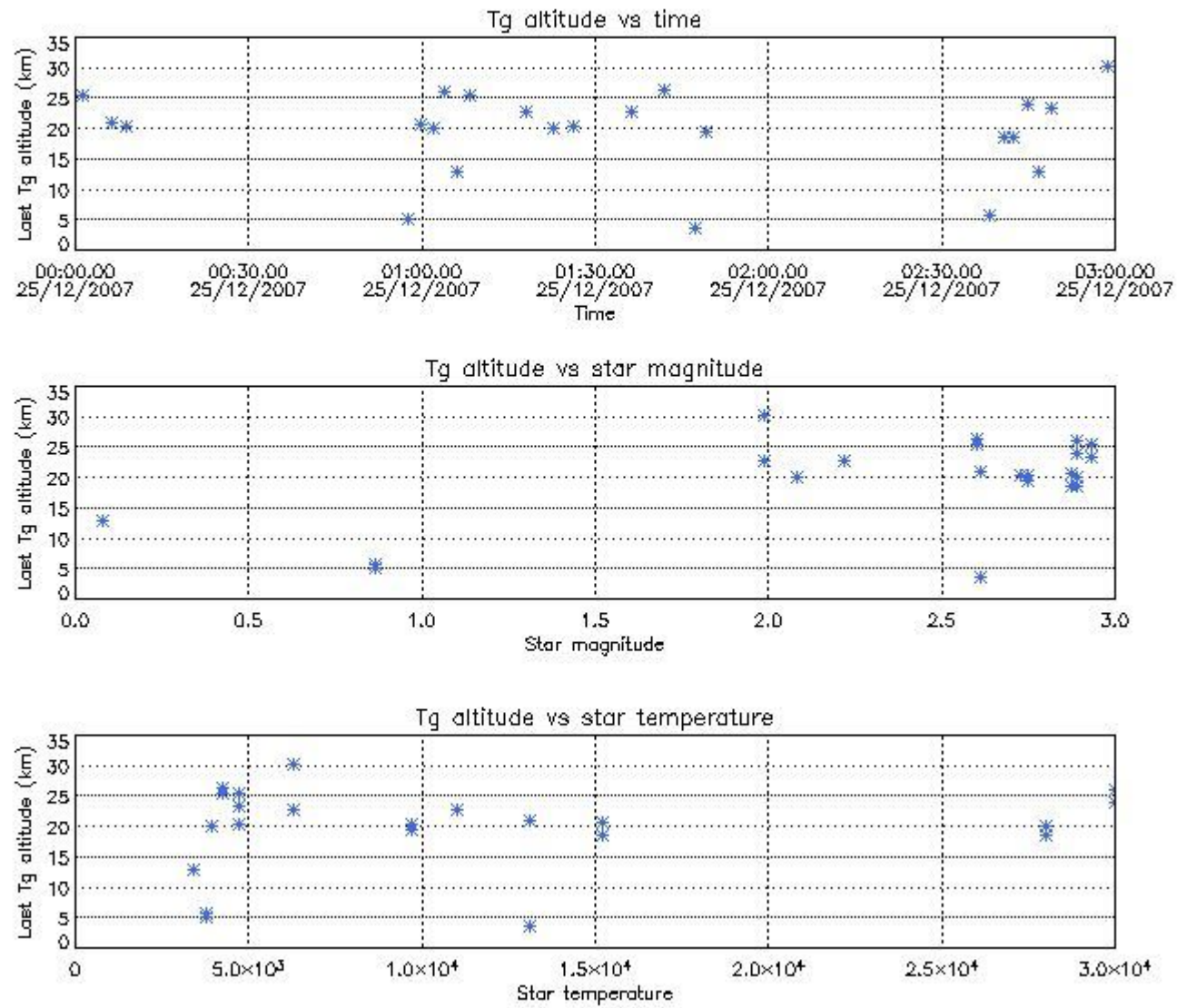
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

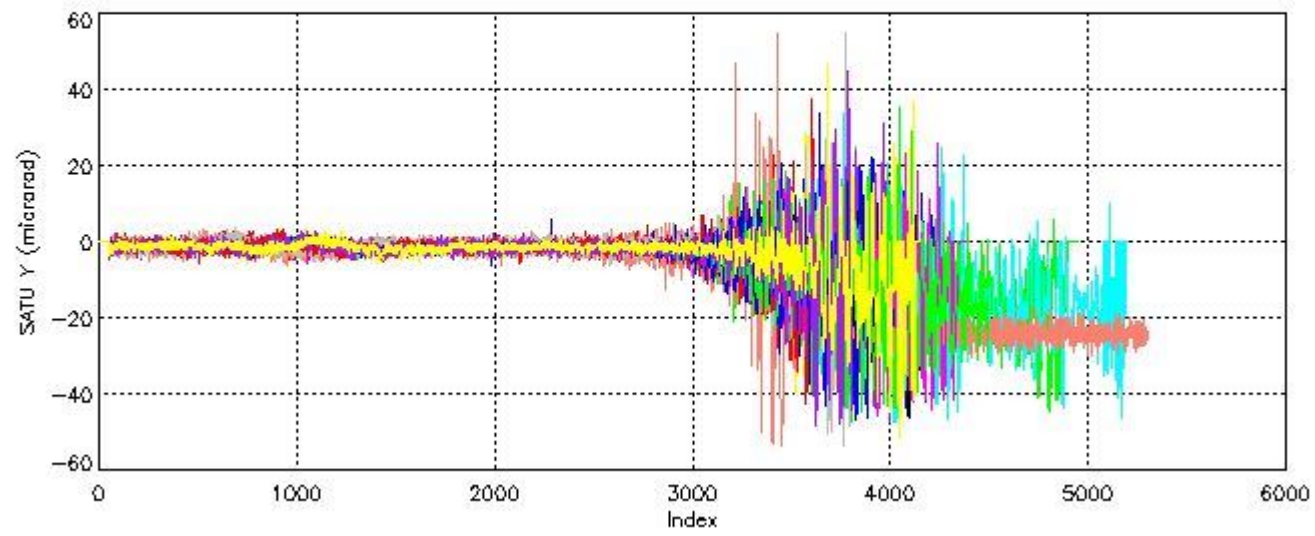
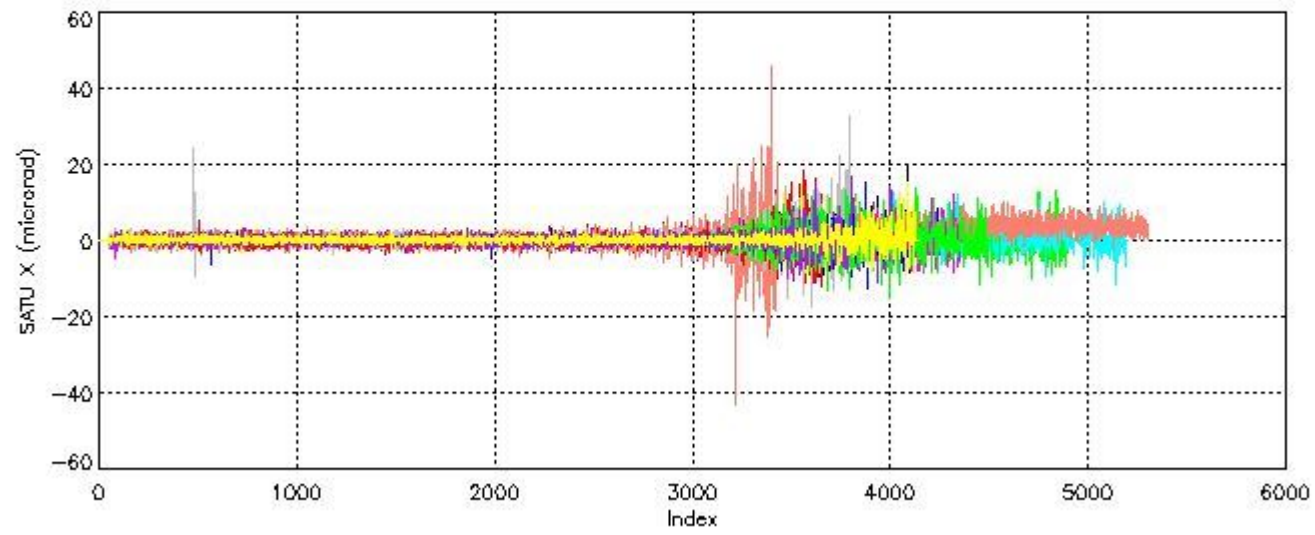


7. Star Acquisition and Tracking Unit (SATU)

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:	0.086269	-1.2775	-0.0027260	-1.3067
St. deviation:	0.41017	0.79238	0.87572	1.2516
Maximum:	5.0000	2.1000	24.000	4.6000
Minimum:	-6.3000	-5.8000	-9.4000	-8.2000

Number of data:	13650.	13650.	19150.	19150.
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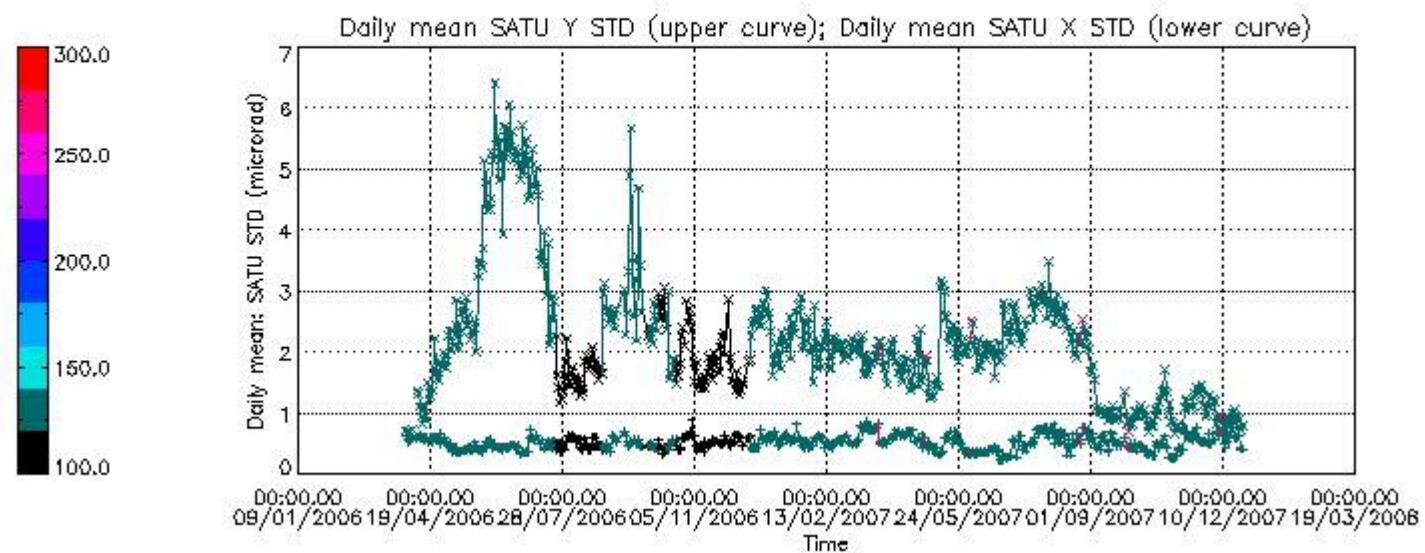
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

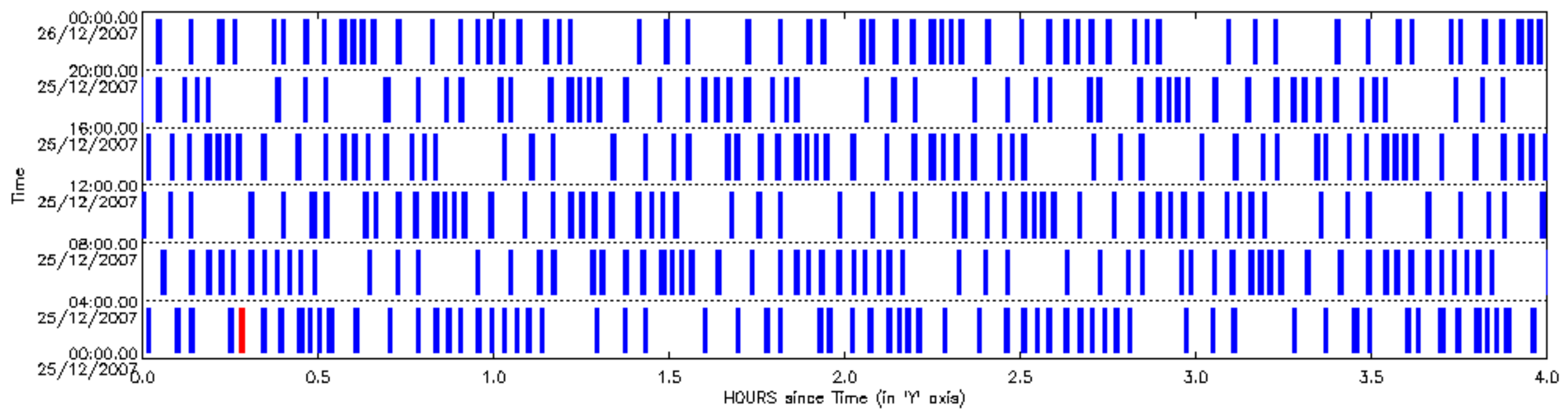
Lower curve: STD of SATU X axis

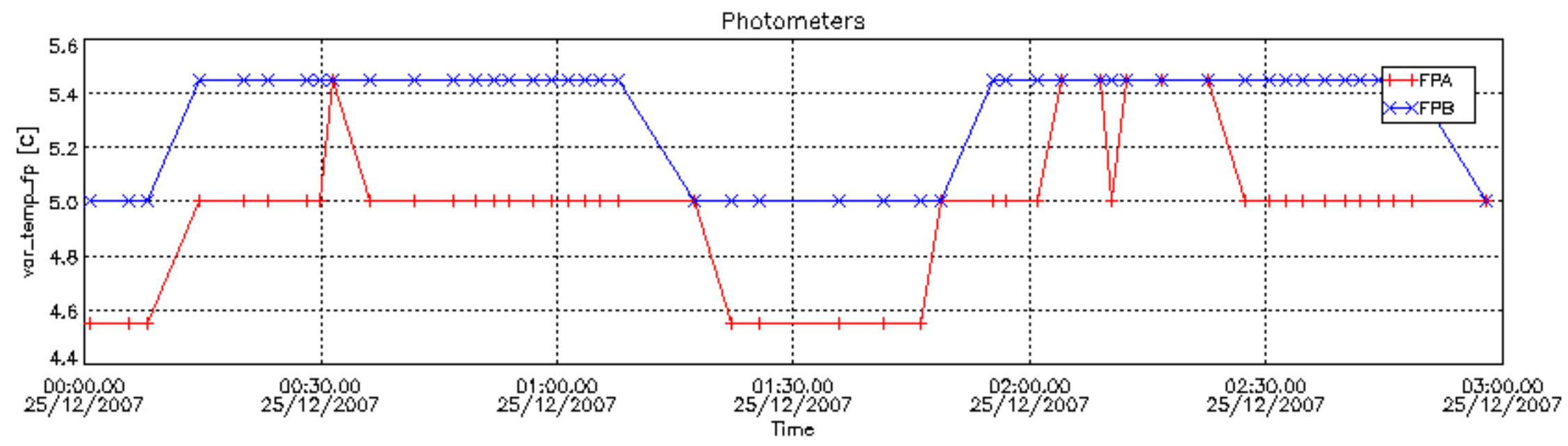
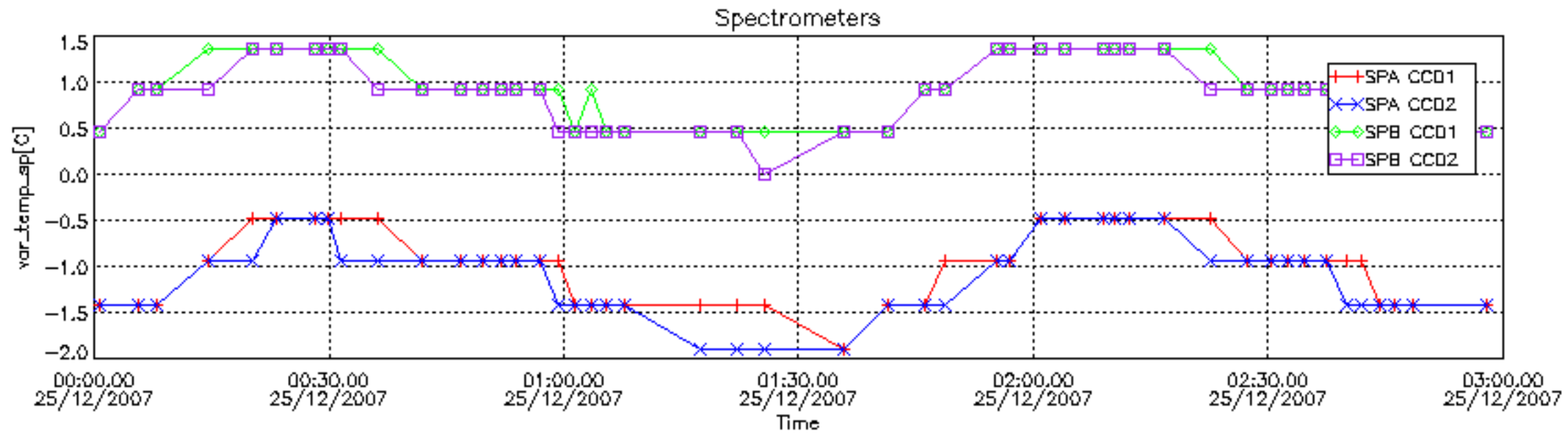


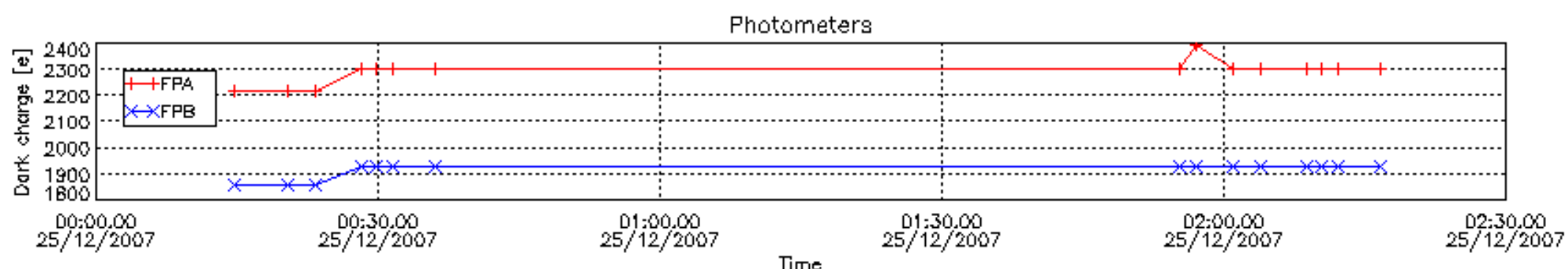
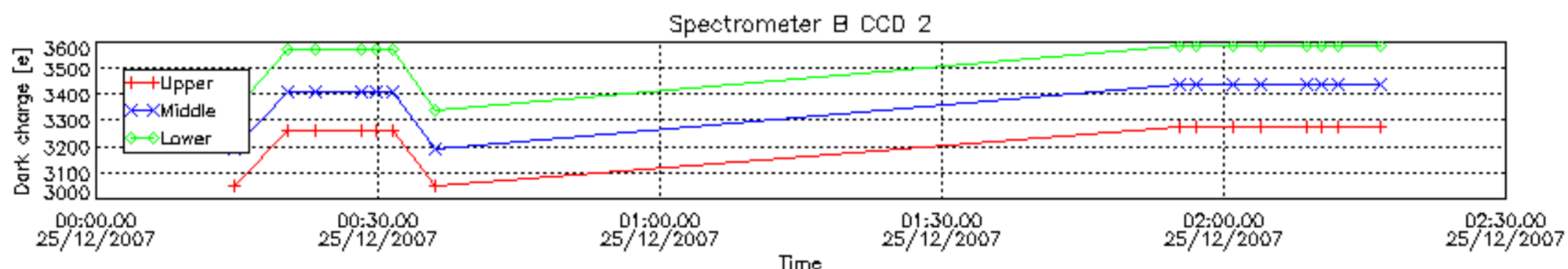
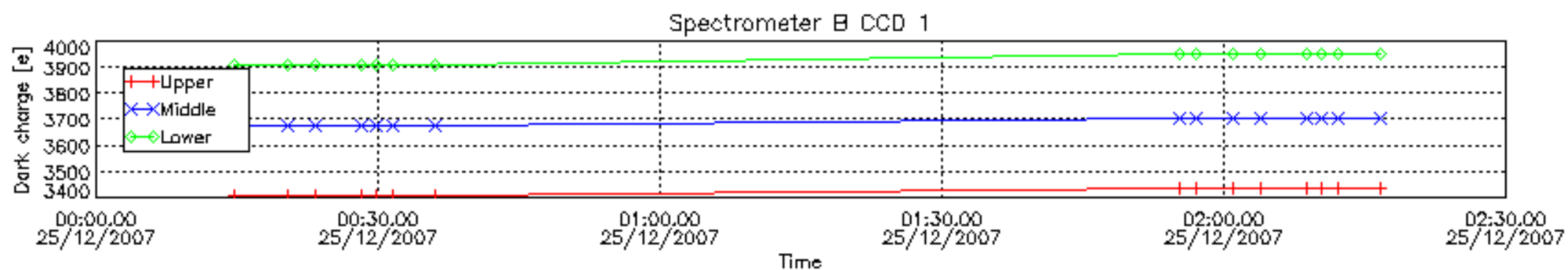
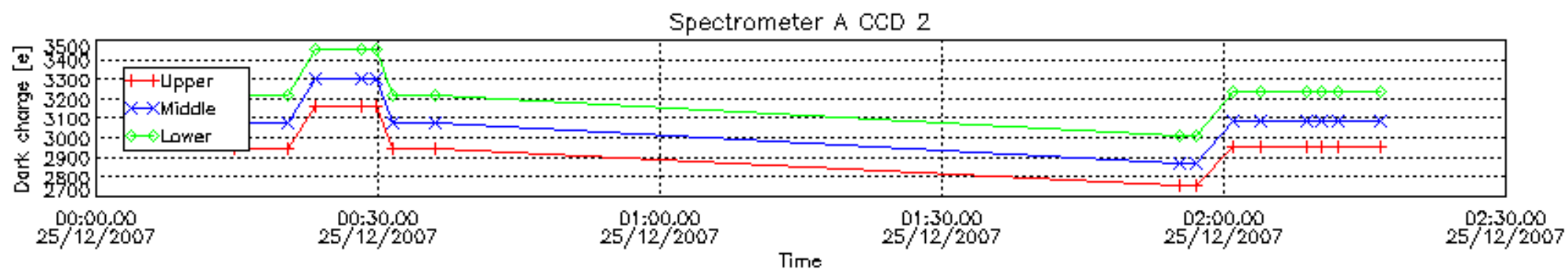
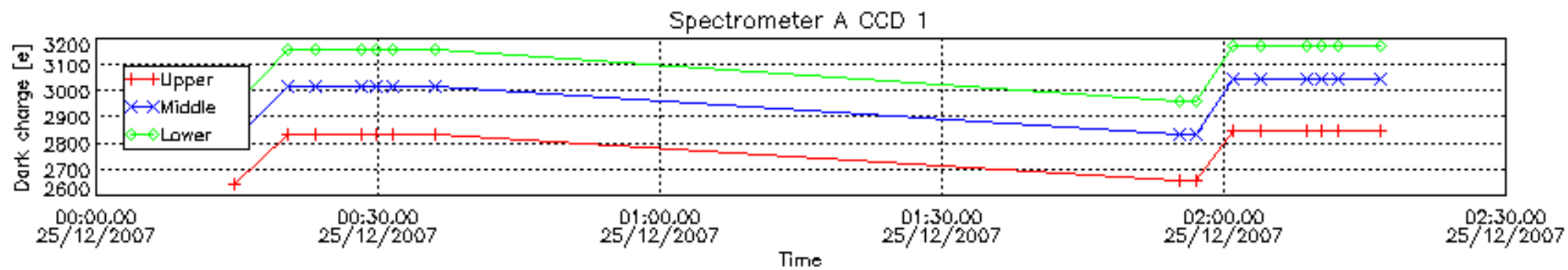
8. Auxiliary Data Files used for the production reported in section 2.4

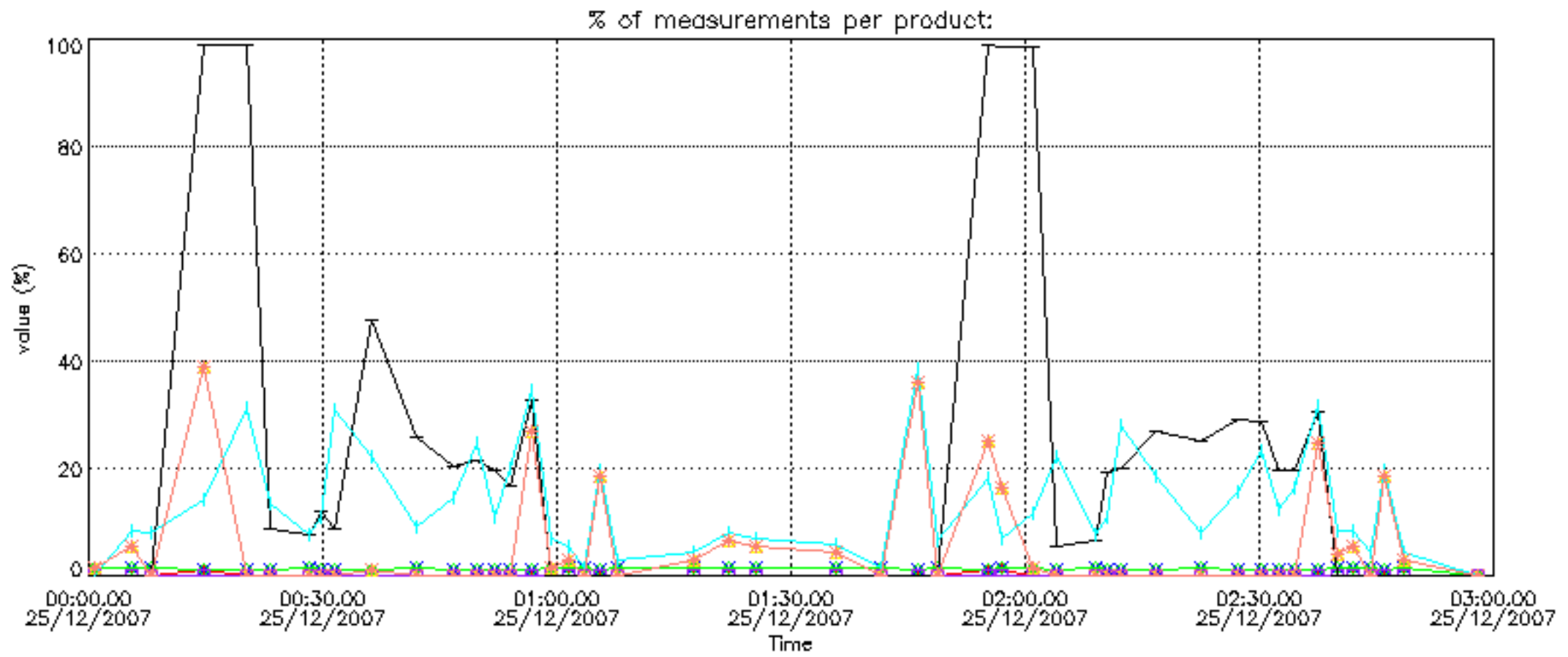
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-DEC-2007 00:00:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	25-DEC-2007 00:00:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-DEC-2007 00:00:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-DEC-2007 00:00:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-DEC-2007 00:00:47
ECMWF_FILE	AUX_ECF_AXNECM20071224_073110_20071224_210000_20071225_090000	1	25-DEC-2007 00:00:47
OPTIONAL_ECMWF_FILE	MISSING	1	25-DEC-2007 00:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071224_204321_000057382064_00300_30414_4815.N1	1	25-DEC-2007 00:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071224_222418_000057382064_00301_30415_4816.N1	3	25-DEC-2007 00:08:02
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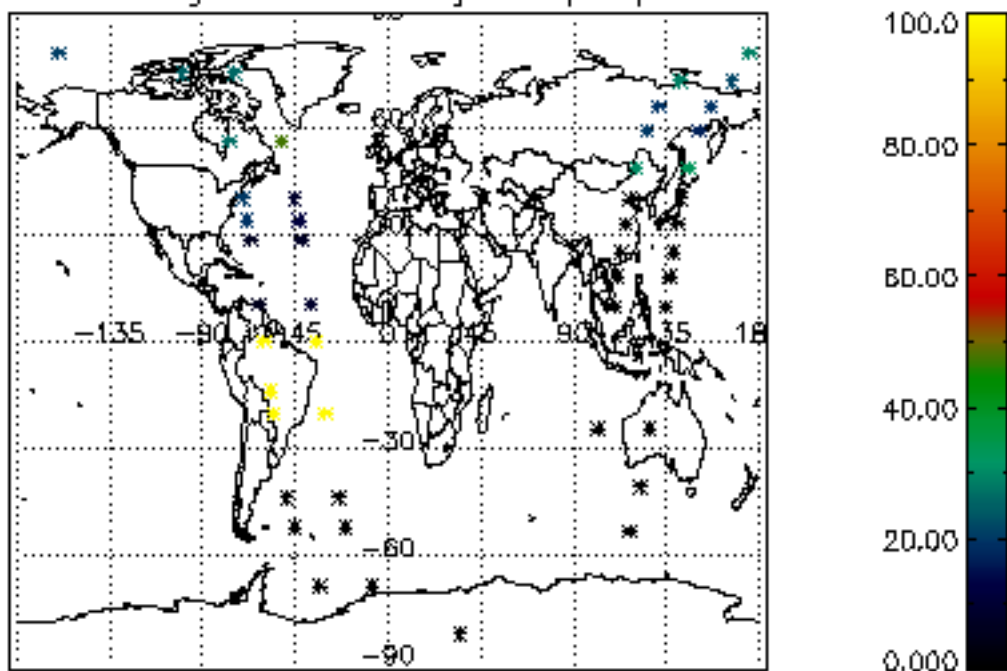




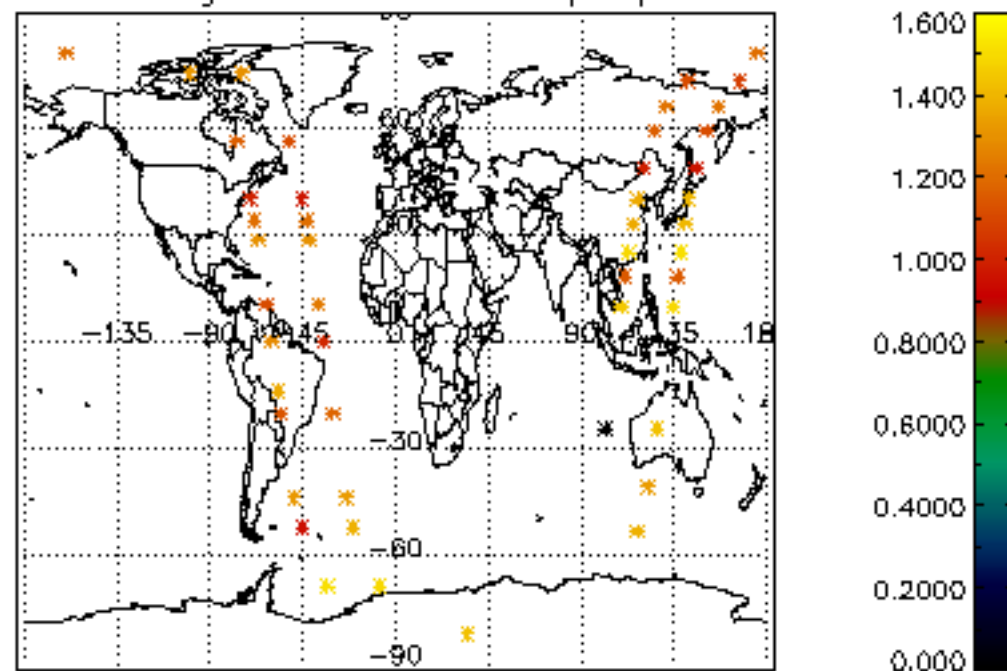




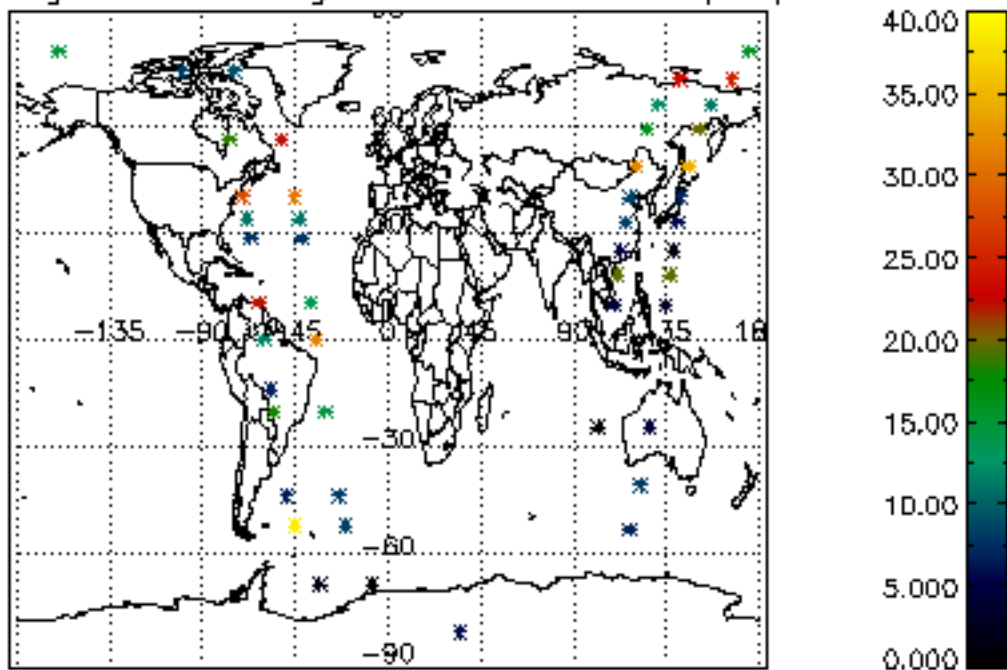
Percentage of cosmic ray hits per profile



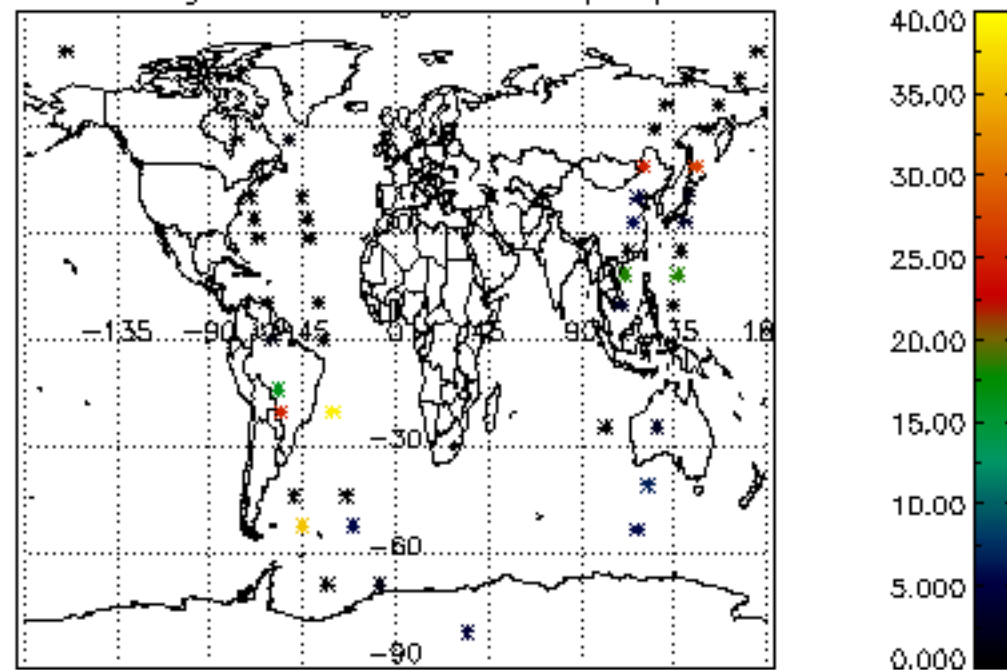
Percentage of datation errors per profile



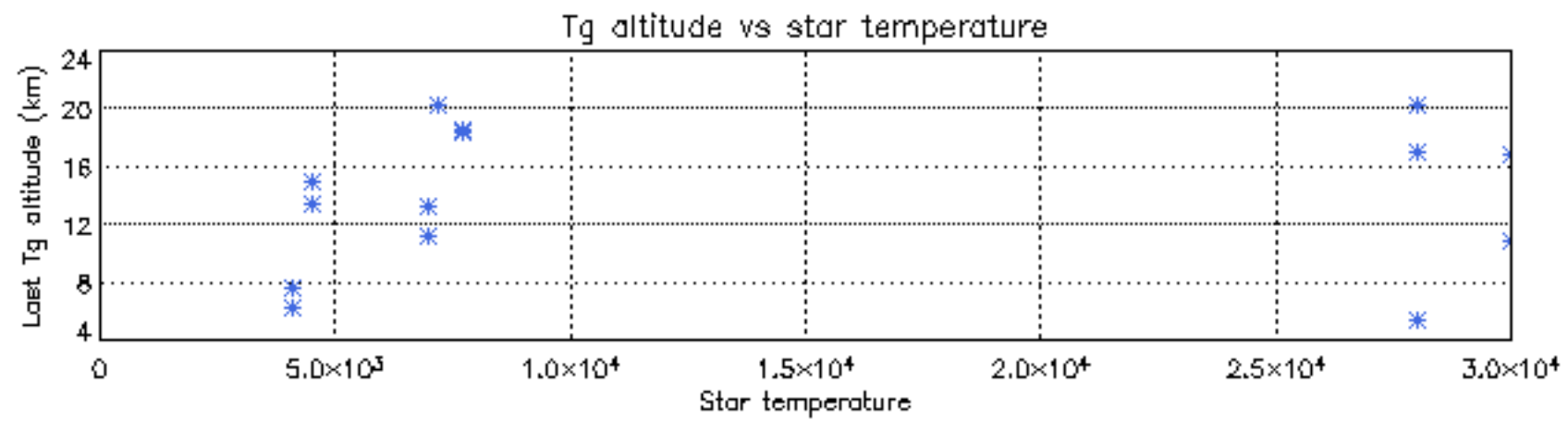
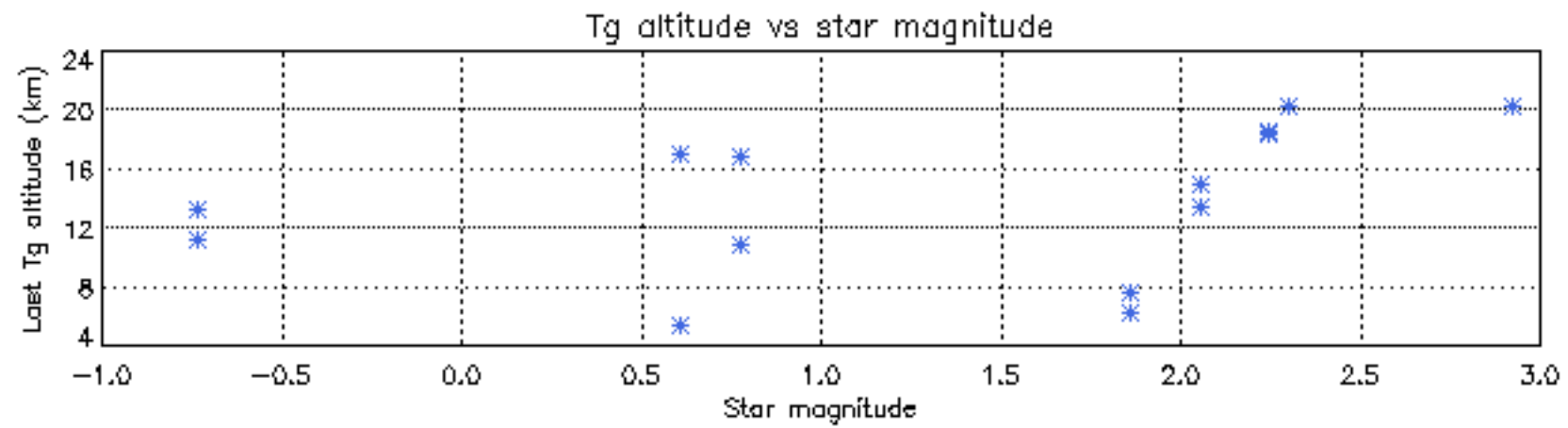
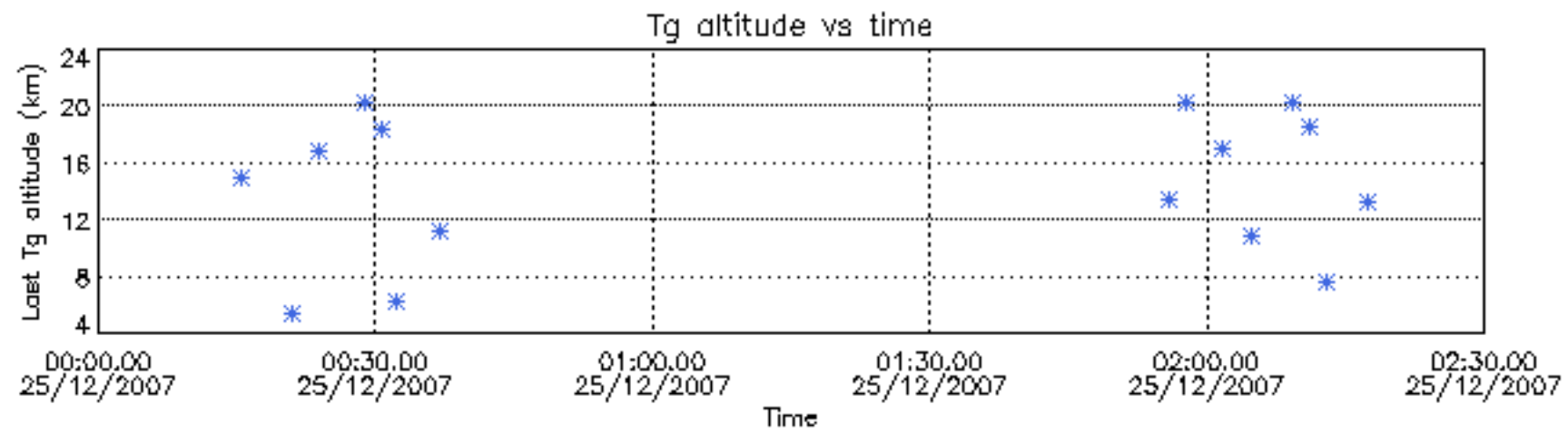
Percentage of star falling outside central band per profile



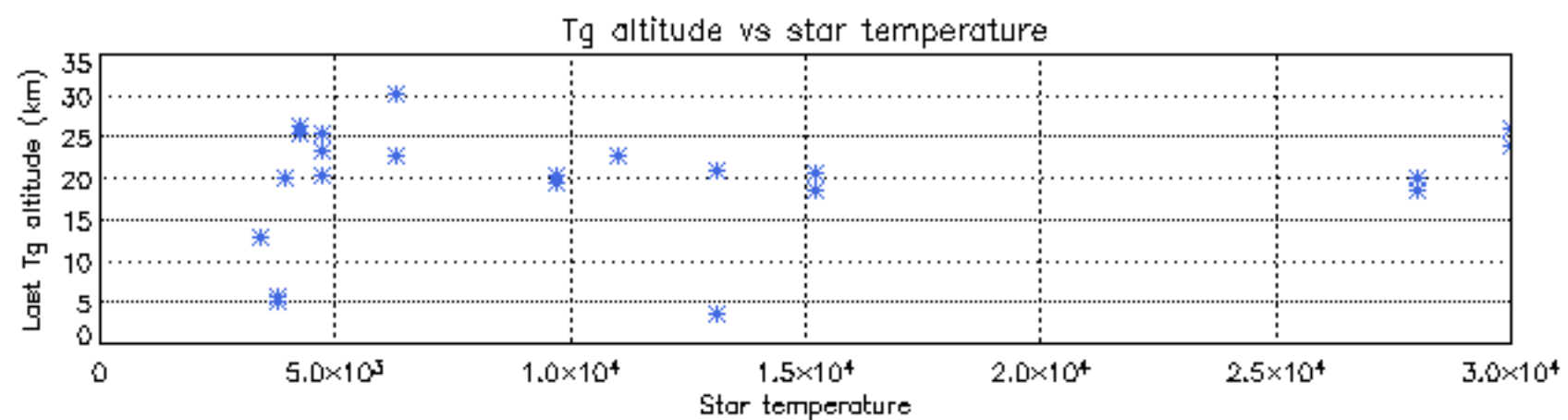
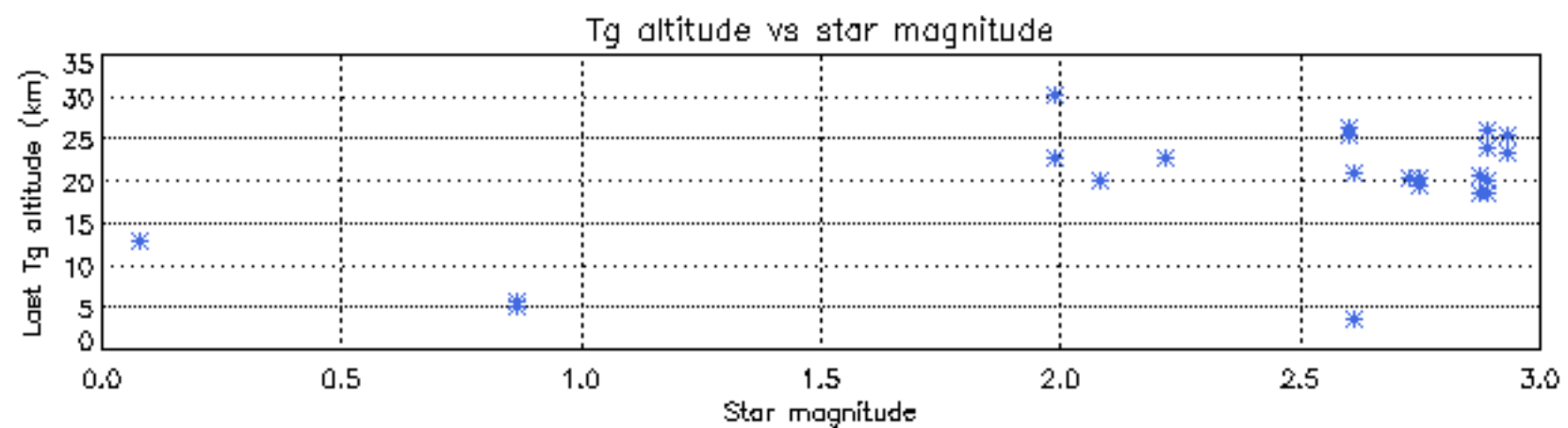
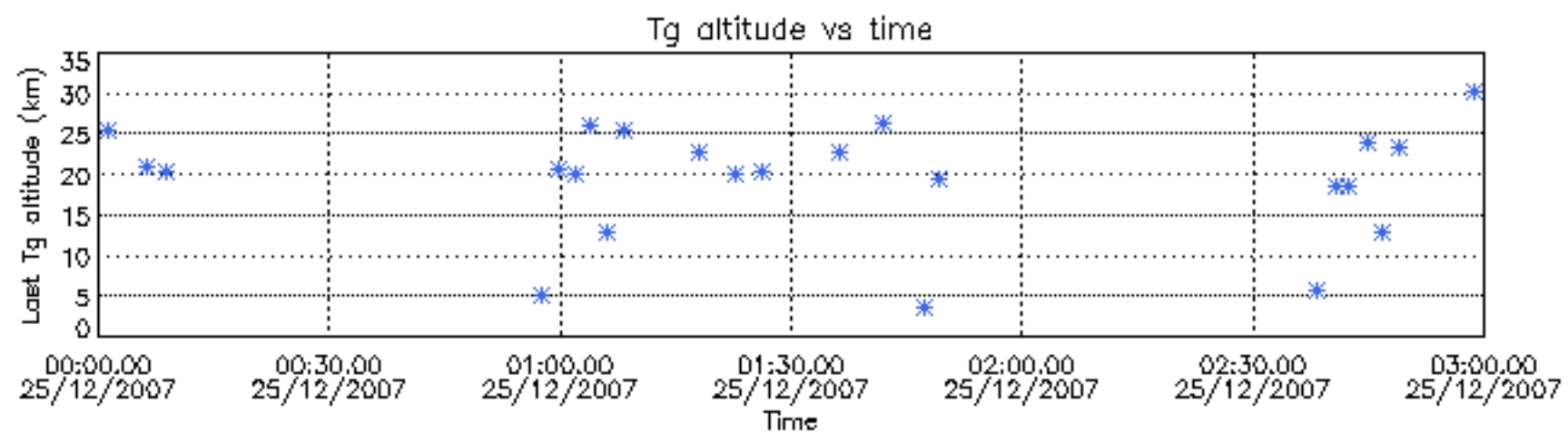
Percentage of saturation errors per profile

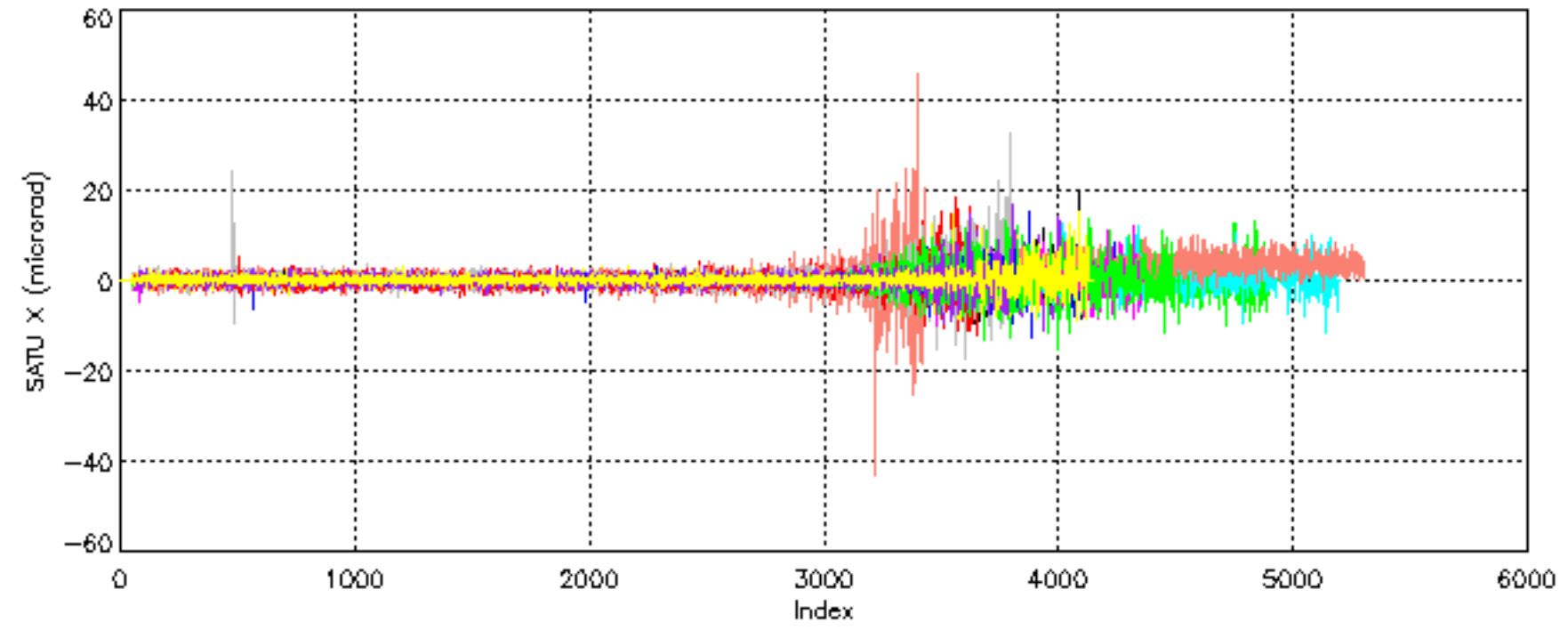


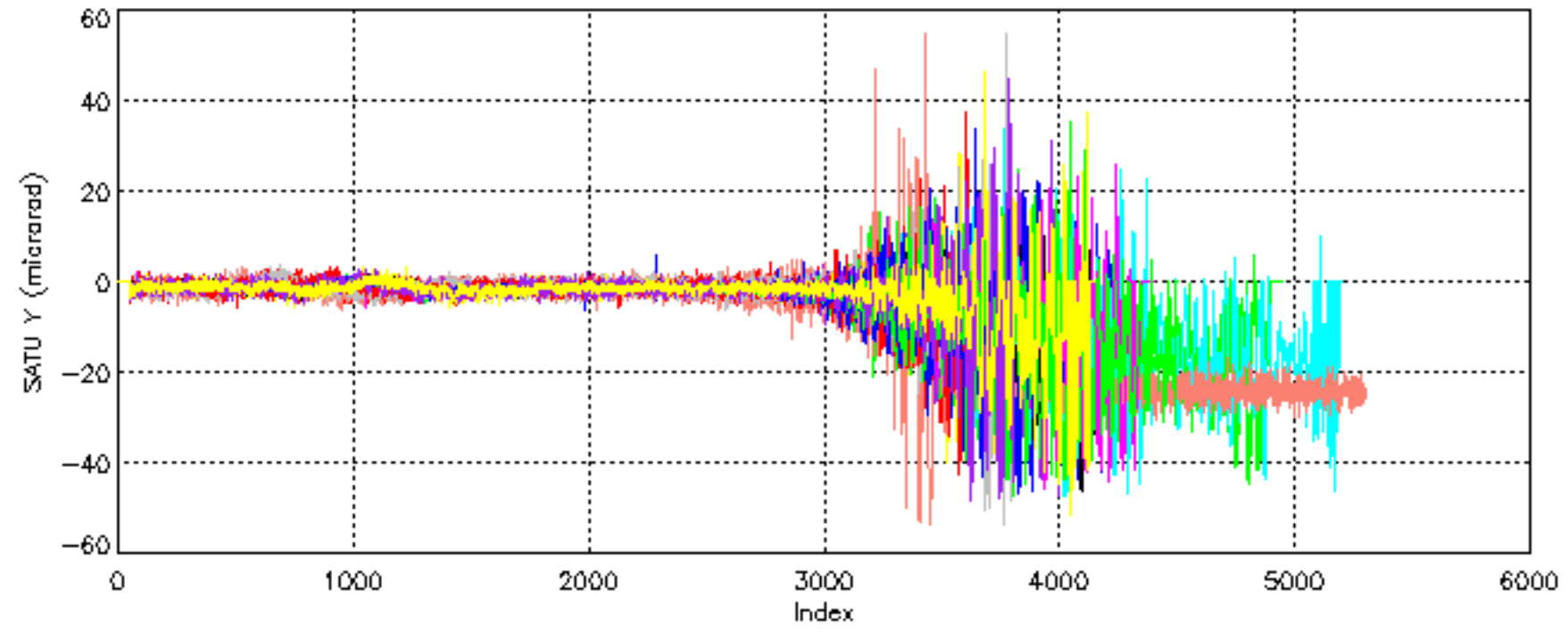
Tangent altitude at which the star is lost

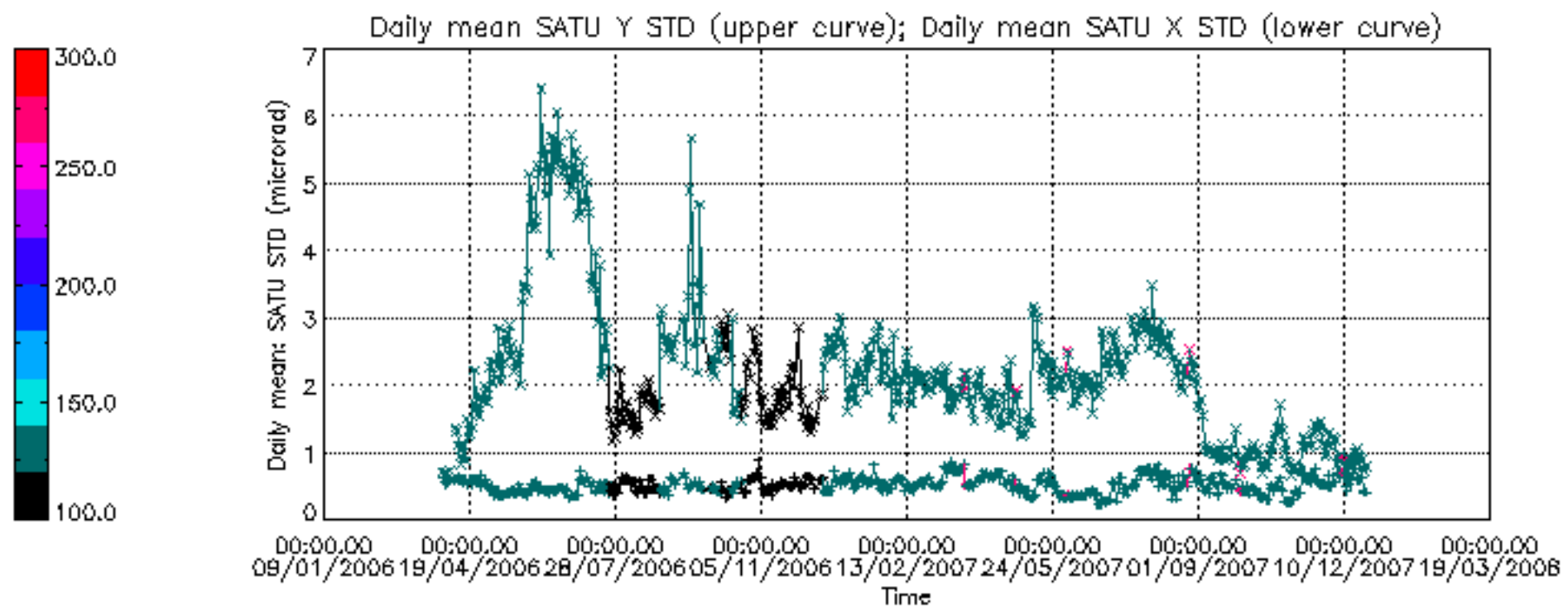


Tangent altitude at which the star is lost









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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073
 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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 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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 23; 6411.4; 26-DEC-2007 18:21:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30441
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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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4;	-148.0;	27-DEC-2007	02:35:50;	Dark	;	38.5;	95;	Zet Cen	;	2.55;	26000;occ;	77;	0;	30446
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17; 2193.3; 28-DEC-2007 02:43:14; Dark ; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;30461
18; 2404.5; 28-DEC-2007 02:46:46; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30461
19; 2600.4; 28-DEC-2007 02:50:02; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30461
20; 2700.2; 28-DEC-2007 02:51:41; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30461
21; 2784.0; 28-DEC-2007 02:53:05; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30461
22; 3423.0; 28-DEC-2007 03:03:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30461

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2; -2117.7; 28-DEC-2007 04:52:35; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30462
3; -1624.3; 28-DEC-2007 05:00:49; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30462
4; -1500.9; 28-DEC-2007 05:02:52; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30462
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
7; -715.9; 28-DEC-2007 05:15:57; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;30462
8; -310.6; 28-DEC-2007 05:22:43; Dark ; 45.5; 54; 5The Cen ; 2.06; 4500;occ; 91; 0;30462
9; -218.0; 28-DEC-2007 05:24:15; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30462
10; -139.3; 28-DEC-2007 05:25:34; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;30462
11; -18.5; 28-DEC-2007 05:27:35; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30462
12; 199.0; 28-DEC-2007 05:31:12; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30463
13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463
14; 499.7; 28-DEC-2007 05:36:13; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30463
15; 596.8; 28-DEC-2007 05:37:50; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30463
16; 697.7; 28-DEC-2007 05:39:31; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30463
17; 961.9; 28-DEC-2007 05:43:55; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30463
18; 1308.1; 28-DEC-2007 05:49:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30463
19; 1589.2; 28-DEC-2007 05:54:22; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30463
20; 1762.7; 28-DEC-2007 05:57:16; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;30463
21; 1879.4; 28-DEC-2007 05:59:12; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;30463
22; 2012.9; 28-DEC-2007 06:01:26; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30463
23; 2193.6; 28-DEC-2007 06:04:27; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30463
24; 2404.4; 28-DEC-2007 06:07:57; Bright; 40.0; 28; 12Bet Tau ; 1.65; 15200;occ; 80; 0;30463
25; 2601.1; 28-DEC-2007 06:11:14; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30463
26; 2700.1; 28-DEC-2007 06:12:53; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;30463
27; 2784.7; 28-DEC-2007 06:14:18; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30463
28; 3423.1; 28-DEC-2007 06:24:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30463

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2; 1309.9; 28-DEC-2007 20:55:07; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30472
3; 1590.5; 28-DEC-2007 20:59:47; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30472
4; 1763.6; 28-DEC-2007 21:02:40; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;30472
5; 1879.4; 28-DEC-2007 21:04:36; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30472
6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472
7; 2194.4; 28-DEC-2007 21:09:51; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30472
8; 2403.1; 28-DEC-2007 21:13:20; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30472
9; 2602.6; 28-DEC-2007 21:16:39; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30472
10; 2698.7; 28-DEC-2007 21:18:15; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30472
11; 3423.0; 28-DEC-2007 21:30:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30472
12; 3695.8; 28-DEC-2007 21:34:52; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30472
13; 3918.9; 28-DEC-2007 21:38:35; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;30472
14; 4413.5; 28-DEC-2007 21:46:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30472
15; 4536.7; 28-DEC-2007 21:48:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30472
16; 4876.0; 28-DEC-2007 21:54:33; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30472
17; 5172.5; 28-DEC-2007 21:59:29; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30472
18; 5324.9; 28-DEC-2007 22:02:01; Dark ; 9.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 19; 0;30472

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2; -373.3; 28-DEC-2007 22:07:39; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30472
3; -300.9; 28-DEC-2007 22:08:52; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30472
4; -214.0; 28-DEC-2007 22:10:18; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30472
5; -133.7; 28-DEC-2007 22:11:39; Dark ; 38.0; 95; Zet Cen ; 2.55; 26000;occ; 76; 0;30472
6; -15.9; 28-DEC-2007 22:13:37; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;30472
7; 203.9; 28-DEC-2007 22:17:16; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30473
8; 384.6; 28-DEC-2007 22:20:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30473
9; 504.3; 28-DEC-2007 22:22:17; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30473
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11; 702.4; 28-DEC-2007 22:25:35; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30473
12; 964.8; 28-DEC-2007 22:29:57; Dark ; 51.5; 2; Alp Car ;-0.74; 7000;occ; 103; 0;30473
13; 1310.1; 28-DEC-2007 22:35:43; Dark ; 37.0; 108; Alp Col ; 2.65; 15200;occ; 74; 0;30473
14; 1590.6; 28-DEC-2007 22:40:23; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30473
15; 1763.7; 28-DEC-2007 22:43:16; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;30473
16; 1879.5; 28-DEC-2007 22:45:12; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30473
17; 2012.8; 28-DEC-2007 22:47:25; Dark ; 42.5; 27; 24Gam Ori ; 1.64; 26000;occ; 85; 0;30473
18; 2194.4; 28-DEC-2007 22:50:27; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30473
19; 2402.9; 28-DEC-2007 22:53:55; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30473
20; 2602.7; 28-DEC-2007 22:57:15; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30473
21; 2698.6; 28-DEC-2007 22:58:51; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30473
22; 3423.0; 28-DEC-2007 23:10:55; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30473
23; 3695.7; 28-DEC-2007 23:15:28; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;30473
24; 3919.1; 28-DEC-2007 23:19:12; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30473
25; 4413.6; 28-DEC-2007 23:27:26; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30473
26; 4536.9; 28-DEC-2007 23:29:29; Bright; 54.0; 67; 5Alp CrB ; 2.22; 11000;occ; 108; 0;30473
27; 4876.4; 28-DEC-2007 23:35:09; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30473
28; 5173.0; 28-DEC-2007 23:40:05; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30473
29; 5325.4; 28-DEC-2007 23:42:38; Dark ; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;30473

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3;-1623.9; 28-DEC-2007 06:41:25; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30463
4;-1500.7; 28-DEC-2007 06:43:28; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30463
5;-1162.1; 28-DEC-2007 06:49:07; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30463
6; -866.7; 28-DEC-2007 06:54:02; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30463
7; -715.4; 28-DEC-2007 06:56:34; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;30463
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13; 382.0; 28-DEC-2007 07:14:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30464
14; 500.2; 28-DEC-2007 07:16:49; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30464
15; 597.5; 28-DEC-2007 07:18:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30464
16; 698.2; 28-DEC-2007 07:20:07; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;30464
17; 962.2; 28-DEC-2007 07:24:31; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30464
18; 1308.4; 28-DEC-2007 07:30:17; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30464
19; 1589.3; 28-DEC-2007 07:34:58; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;30464

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3; 2012.9; 28-DEC-2007 07:42:02; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;30464
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5; 2404.3; 28-DEC-2007 07:48:33; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30464
6; 2601.1; 28-DEC-2007 07:51:50; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30464
7; 2699.9; 28-DEC-2007 07:53:29; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30464
8; 2784.9; 28-DEC-2007 07:54:54; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30464
9; 3423.1; 28-DEC-2007 08:05:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30464
10; 3696.4; 28-DEC-2007 08:10:06; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30464
11; 3918.4; 28-DEC-2007 08:13:47; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30464
12; 4411.9; 28-DEC-2007 08:22:01; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30464
13; 4535.4; 28-DEC-2007 08:24:04; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30464
14; 4874.2; 28-DEC-2007 08:29:43; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30464
15; 5169.5; 28-DEC-2007 08:34:39; Bright; 54.0; 104; 27Bet Lib ; 2.61; 13100;occ; 108; 0;30464
16; 5321.1; 28-DEC-2007 08:37:10; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30464
17; 5726.6; 28-DEC-2007 08:43:56; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30464
18; 5818.8; 28-DEC-2007 08:45:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30464
19; 5897.8; 28-DEC-2007 08:46:47; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30464

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 21; 6235.9; 28-DEC-2007 08:52:25; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;30464
 22; 6418.1; 28-DEC-2007 08:55:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30464
 23; 6536.6; 28-DEC-2007 08:57:26; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30464
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 25; 6734.7; 28-DEC-2007 09:00:44; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30464
 26; 6998.4; 28-DEC-2007 09:05:08; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30464
 27; 7344.4; 28-DEC-2007 09:10:53; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30464
 28; 7625.3; 28-DEC-2007 09:15:34; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;30464
 29; 7798.8; 28-DEC-2007 09:18:28; Dark ; 13.5; 7; 19Bet Ori ; 0.10; 14000;occ; 27; 0;30464

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 3; 2012.8; 28-DEC-2007 09:22:38; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30465
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 5; 2404.1; 28-DEC-2007 09:29:09; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;30465
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 7; 2699.7; 28-DEC-2007 09:34:05; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30465
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 10; 3696.3; 28-DEC-2007 09:50:41; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30465
 11; 3918.5; 28-DEC-2007 09:54:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30465
 12; 4412.2; 28-DEC-2007 10:02:37; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30465
 13; 4535.6; 28-DEC-2007 10:04:41; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30465
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 15; 5169.9; 28-DEC-2007 10:15:15; Bright; 54.0; 104; 27Bet Lib ; 2.61; 13100;occ; 108; 0;30465
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 17; 5727.2; 28-DEC-2007 10:24:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;30465
 18; 5819.3; 28-DEC-2007 10:26:04; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30465
 19; 5898.3; 28-DEC-2007 10:27:23; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30465
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 21; 6236.4; 28-DEC-2007 10:33:01; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;30465
 22; 6418.4; 28-DEC-2007 10:36:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30465
 23; 6536.9; 28-DEC-2007 10:38:02; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30465
 24; 6634.5; 28-DEC-2007 10:39:40; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30465
 25; 6735.1; 28-DEC-2007 10:41:20; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;30465
 26; 6998.7; 28-DEC-2007 10:45:44; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;30465
 27; 7344.6; 28-DEC-2007 10:51:30; Dark ; 37.0; 108; Alp Col ; 2.65; 15200;occ; 74; 0;30465

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 3; 1879.4; 28-DEC-2007 11:01:00; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30466
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16; 2033.4; 01-JAN-2008 00:34:07; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;30517
17; 2200.0; 01-JAN-2008 00:36:53; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30517
18; 2398.2; 01-JAN-2008 00:40:11; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30517
19; 2472.4; 01-JAN-2008 00:41:26; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30517
20; 2611.4; 01-JAN-2008 00:43:45; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30517
21; 2693.4; 01-JAN-2008 00:45:07; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30517
22; 3423.4; 01-JAN-2008 00:57:17; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30517
23; 3691.7; 01-JAN-2008 01:01:45; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30517
24; 3921.7; 01-JAN-2008 01:05:35; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30517
25; 4047.2; 01-JAN-2008 01:07:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30517
26; 4420.9; 01-JAN-2008 01:13:54; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30517
27; 4544.8; 01-JAN-2008 01:15:58; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30517
28; 4888.5; 01-JAN-2008 01:21:42; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30517
29; 5028.2; 01-JAN-2008 01:24:01; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30517
30; 5191.3; 01-JAN-2008 01:26:45; Bright; 54.5; 104; 27Bet Lib ; 2.61; 13100;occ; 109; 0;30517

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