

GOMOS Daily Report 17-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	19DEC2007 06:15:57
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (17DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18DEC2007 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)

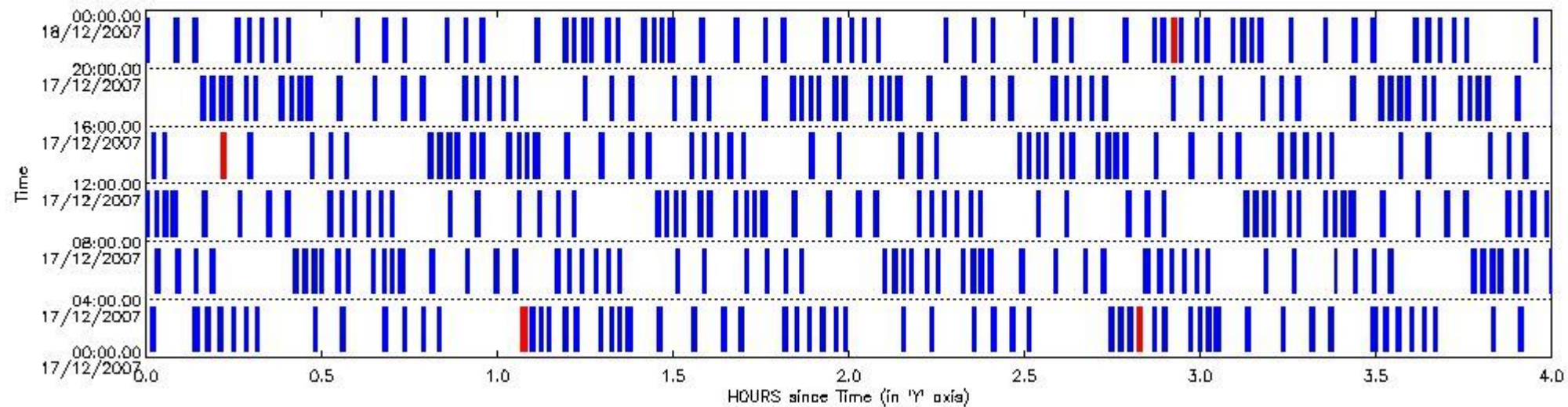
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

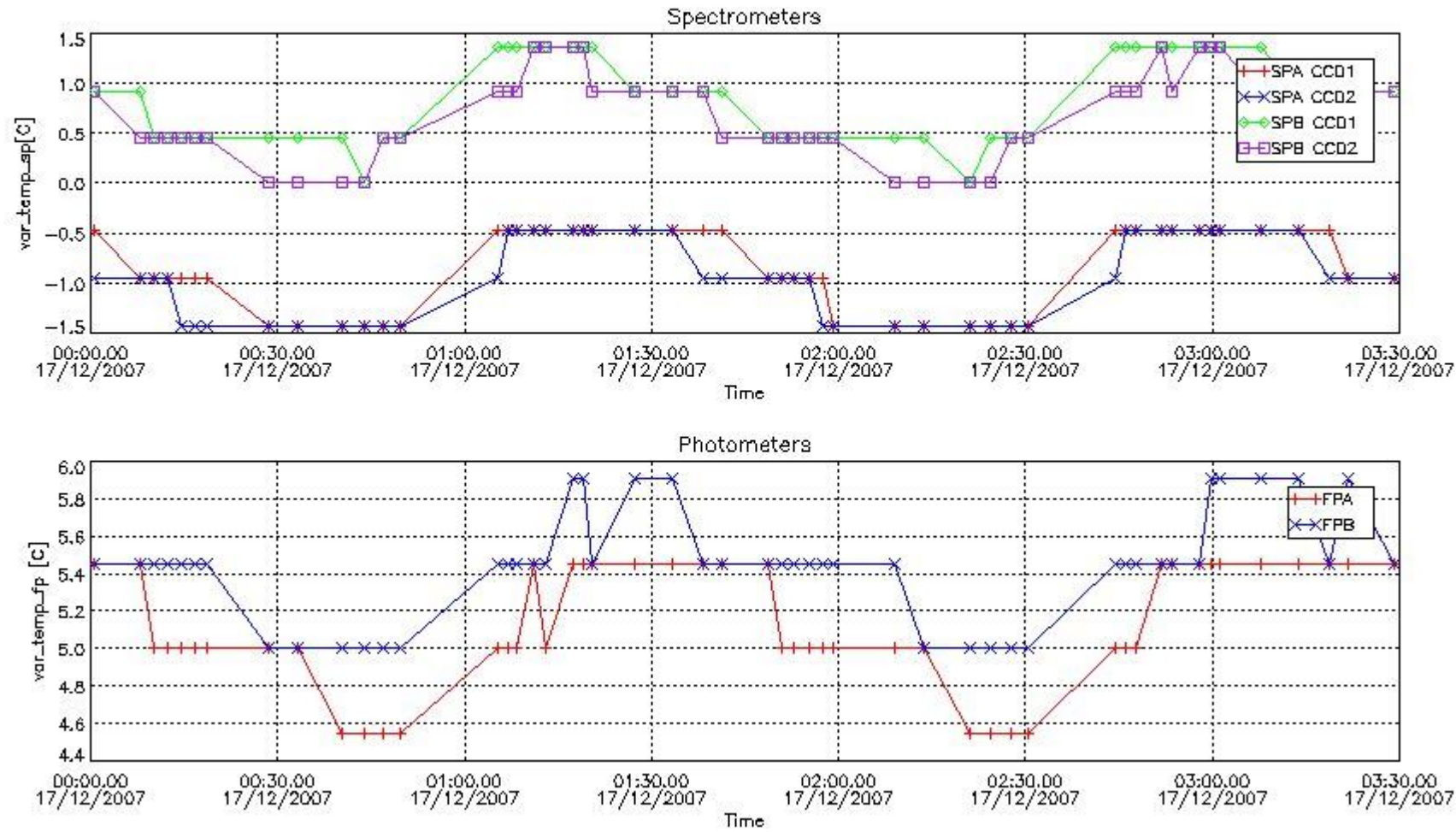
UTC start time	Star name	Star ID	Orbit
17-DEC-2007 01:03:50	46GamHya	169	30302
17-DEC-2007 02:49:04	ZetCen	95	30303
17-DEC-2007 12:12:41	1AlpUMi	49	30309
17-DEC-2007 22:54:58	lotCen	123	30315

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_1PNPDE20071217_000038_000000482064_00188_30302_9069.N1	17-DEC-2007 00:00:38	Straylight	48.000	7	19Bet Ori	0.10000	14000.	96	30302	No
2	GOM_TRA_1PNPDE20071217_000758_000000542064_00188_30302_9070.N1	17-DEC-2007 00:07:58	Twilight_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30302	No
3	GOM_TRA_1PNPDE20071217_001010_000000352064_00188_30302_9071.N1	17-DEC-2007 00:10:10	Bright	34.500	146	25Eta Tau	2.8730	15200.	69	30302	No
4	GOM_TRA_1PNPDE20071217_001219_000000362064_00188_30302_9072.N1	17-DEC-2007 00:12:19	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30302	No
5	GOM_TRA_1PNPDE20071217_001436_000000342064_00188_30302_9073.N1	17-DEC-2007 00:14:36	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30302	No
6	GOM_TRA_1PNPDE20071217_001648_000000342064_00188_30302_9074.N1	17-DEC-2007 00:16:48	Bright	34.000	175	39Del Per	3.0100	19400.	68	30302	No
7	GOM_TRA_1PNPDE20071217_001835_000000352064_00188_30302_9075.N1	17-DEC-2007 00:18:35	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	30302	No

8	GOM_TRA_1PNPDE20071217_002830_000000352064_00188_30302_9076.N1	17-DEC-2007 00:28:30	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30302	No
9	GOM_TRA_1PNPDE20071217_003313_000000372064_00188_30302_9077.N1	17-DEC-2007 00:33:13	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30302	No
10	GOM_TRA_1PNPDE20071217_004025_000000382064_00188_30302_9078.N1	17-DEC-2007 00:40:25	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	30302	No
11	GOM_TRA_1PNPDE20071217_004347_000000422064_00188_30302_9079.N1	17-DEC-2007 00:43:47	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	30302	No
12	GOM_TRA_1PNPDE20071217_004700_000000362064_00188_30302_9080.N1	17-DEC-2007 00:47:00	Bright	36.000	83		2.3780	11000.	72	30302	No
13	GOM_TRA_1PNPDE20071217_004944_000000372064_00188_30302_9081.N1	17-DEC-2007 00:49:44	Bright	37.000	3	16Alp Boo	-0.050000	4250.0	74	30302	No
14	GOM_TRA_1PNPDE20071217_010528_000000472064_00188_30302_9205.N1	17-DEC-2007 01:05:28	Dark	47.000	54	5The Cen	2.0550	4500.0	94	30302	No
15	GOM_TRA_1PNPDE20071217_010703_000000432064_00188_30302_9206.N1	17-DEC-2007 01:07:03	Dark	42.500	123	lot Cen	2.7500	10200.	85	30302	No
16	GOM_TRA_1PNPDE20071217_010828_000000382064_00188_30302_9207.N1	17-DEC-2007 01:08:28	Dark	37.500	95	Zet Cen	2.5450	26000.	75	30302	No
17	GOM_TRA_1PNPDE20071217_011110_000000402064_00188_30302_9208.N1	17-DEC-2007 01:11:10	Dark	40.000	64	Gam Cen	2.2000	10600.	80	30302	No
18	GOM_TRA_1PNPDE20071217_011259_000000442064_00189_30303_9209.N1	17-DEC-2007 01:12:59	Dark	43.500	20	Bet Cru	1.2530	30000.	87	30303	No
19	GOM_TRA_1PNPDE20071217_011719_000000382064_00189_30303_9210.N1	17-DEC-2007 01:17:19	Dark	38.000	124	The Car	2.7640	30000.	76	30303	No
20	GOM_TRA_1PNPDE20071217_011904_000000402064_00189_30303_9211.N1	17-DEC-2007 01:19:04	Dark	39.500	159	Ups Car	2.9200	7200.0	79	30303	No
21	GOM_TRA_1PNPDE20071217_012026_000000412064_00189_30303_9212.N1	17-DEC-2007 01:20:26	Dark	40.500	71	lot Car	2.2460	7700.0	81	30303	No
22	GOM_TRA_1PNPDE20071217_012712_000000452064_00189_30303_9213.N1	17-DEC-2007 01:27:12	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30303	No
23	GOM_TRA_1PNPDE20071217_013312_000000412064_00189_30303_9214.N1	17-DEC-2007 01:33:12	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30303	No
24	GOM_TRA_1PNPDE20071217_013810_000000452064_00189_30303_9215.N1	17-DEC-2007 01:38:10	Straylight	45.000	101	11Alp Lep	2.5820	7000.0	90	30303	No
25	GOM_TRA_1PNPDE20071217_014114_000000472064_00189_30303_9216.N1	17-DEC-2007 01:41:14	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	30303	No
26	GOM_TRA_1PNPDE20071217_014834_000000542064_00189_30303_9217.N1	17-DEC-2007 01:48:34	Tw_i_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30303	No
27	GOM_TRA_1PNPDE20071217_015046_000000362064_00189_30303_9218.N1	17-DEC-2007 01:50:46	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30303	No
28	GOM_TRA_1PNPDE20071217_015255_000000362064_00189_30303_9219.N1	17-DEC-2007 01:52:55	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30303	No
29	GOM_TRA_1PNPDE20071217_015512_000000352064_00189_30303_9220.N1	17-DEC-2007 01:55:12	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30303	No
30	GOM_TRA_1PNPDE20071217_015724_000000342064_00189_30303_9221.N1	17-DEC-2007 01:57:24	Bright	34.000	175	39Del Per	3.0100	19400.	68	30303	No
31	GOM_TRA_1PNPDE20071217_015911_000000352064_00189_30303_9222.N1	17-DEC-2007 01:59:11	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	30303	No
32	GOM_TRA_1PNPDE20071217_020906_000000332064_00189_30303_9223.N1	17-DEC-2007 02:09:06	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30303	No
33	GOM_TRA_1PNPDE20071217_021348_000000342064_00189_30303_9224.N1	17-DEC-2007 02:13:48	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	30303	No
34	GOM_TRA_1PNPDE20071217_022101_000000392064_00189_30303_9385.N1	17-DEC-2007 02:21:01	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	30303	No
35	GOM_TRA_1PNPDE20071217_022423_000000352064_00189_30303_9386.N1	17-DEC-2007 02:24:23	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30303	No
36	GOM_TRA_1PNPDE20071217_022736_000000372064_00189_30303_9387.N1	17-DEC-2007 02:27:36	Bright	36.500	83		2.3780	11000.	73	30303	No
37	GOM_TRA_1PNPDE20071217_023020_000000392064_00189_30303_9388.N1	17-DEC-2007 02:30:20	Bright	38.500	3	16Alp Boo	-0.050000	4250.0	77	30303	No
38	GOM_TRA_1PNPDE20071217_024427_000000462064_00189_30303_9389.N1	17-DEC-2007 02:44:27	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	30303	No
39	GOM_TRA_1PNPDE20071217_024604_000000442064_00189_30303_9390.N1	17-DEC-2007 02:46:04	Dark	43.500	54	5The Cen	2.0550	4500.0	87	30303	No
40	GOM_TRA_1PNPDE20071217_024739_000000402064_00189_30303_9391.N1	17-DEC-2007 02:47:39	Dark	40.000	123	lot Cen	2.7500	10200.	80	30303	No
41	GOM_TRA_1PNPDE20071217_025146_000000432064_00189_30303_9392.N1	17-DEC-2007 02:51:46	Dark	42.500	64	Gam Cen	2.2000	10600.	85	30303	No
42	GOM_TRA_1PNPDE20071217_025335_000000392064_00190_30304_9393.N1	17-DEC-2007 02:53:35	Dark	38.500	20	Bet Cru	1.2530	30000.	77	30304	No
43	GOM_TRA_1PNPDE20071217_025756_000000382064_00190_30304_9394.N1	17-DEC-2007 02:57:56	Dark	37.500	124	The Car	2.7640	30000.	75	30304	No
44	GOM_TRA_1PNPDE20071217_025940_000000392064_00190_30304_9395.N1	17-DEC-2007 02:59:40	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30304	No
45	GOM_TRA_1PNPDE20071217_030102_000000422064_00190_30304_9396.N1	17-DEC-2007 03:01:02	Dark	42.000	71	lot Car	2.2460	7700.0	84	30304	No
46	GOM_TRA_1PNPDE20071217_030748_000000452064_00190_30304_9397.N1	17-DEC-2007 03:07:48	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	30304	No
47	GOM_TRA_1PNPDE20071217_031349_000000422064_00190_30304_9398.N1	17-DEC-2007 03:13:49	Straylight	41.500	108	Alp Col	2.6520	15200.	83	30304	No
48	GOM_TRA_1PNPDE20071217_031847_000000442064_00190_30304_9399.N1	17-DEC-2007 03:18:47	Straylight	43.500	101	11Alp Lep	2.5820	7000.0	87	30304	No
49	GOM_TRA_1PNPDE20071217_032150_000000482064_00190_30304_9400.N1	17-DEC-2007 03:21:50	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	30304	No
50	GOM_TRA_1PNPDE20071217_032910_000000542064_00190_30304_9401.N1	17-DEC-2007 03:29:10	Tw_i_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30304	No

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



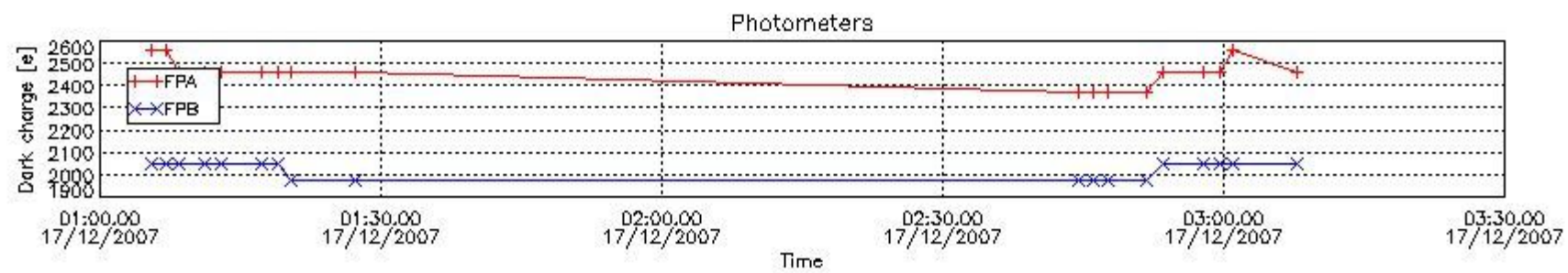
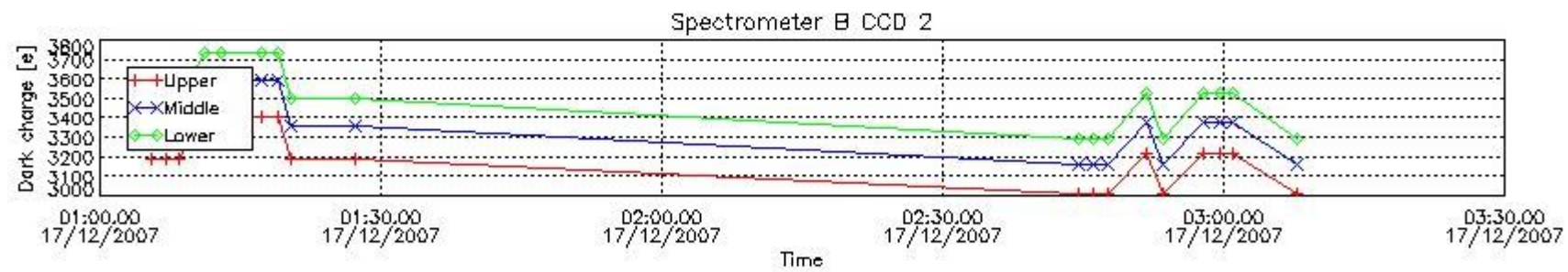
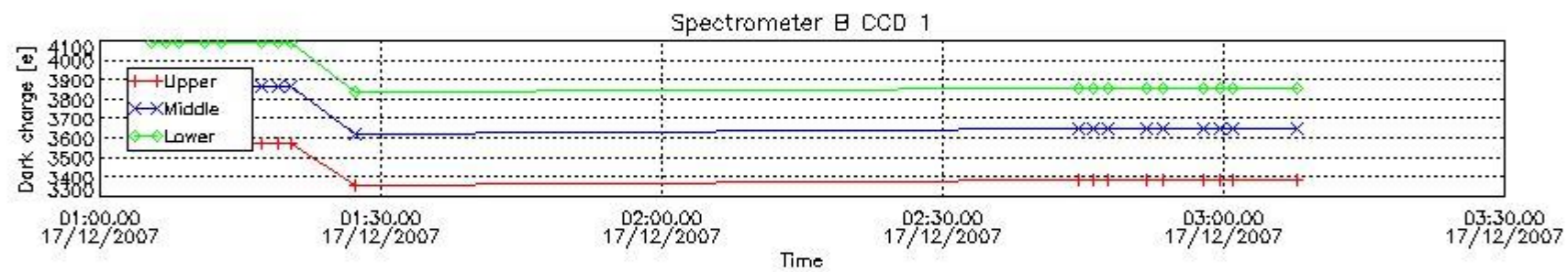
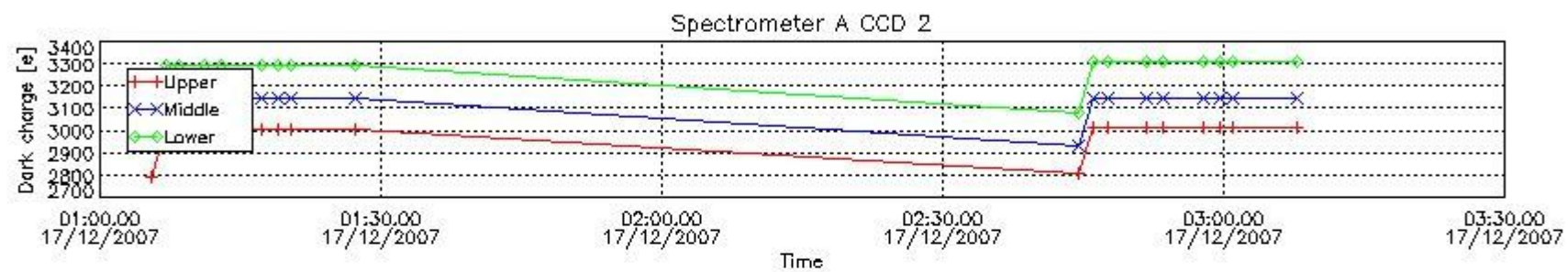
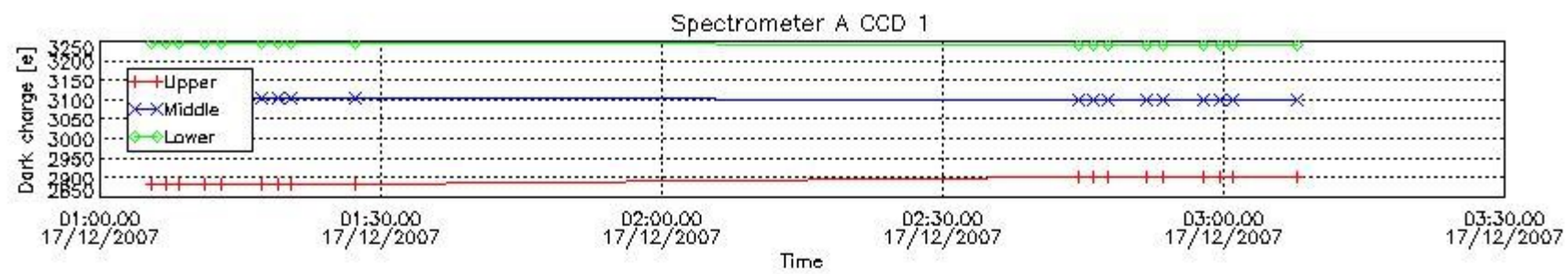
4. Overview of dark signal processing per product

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



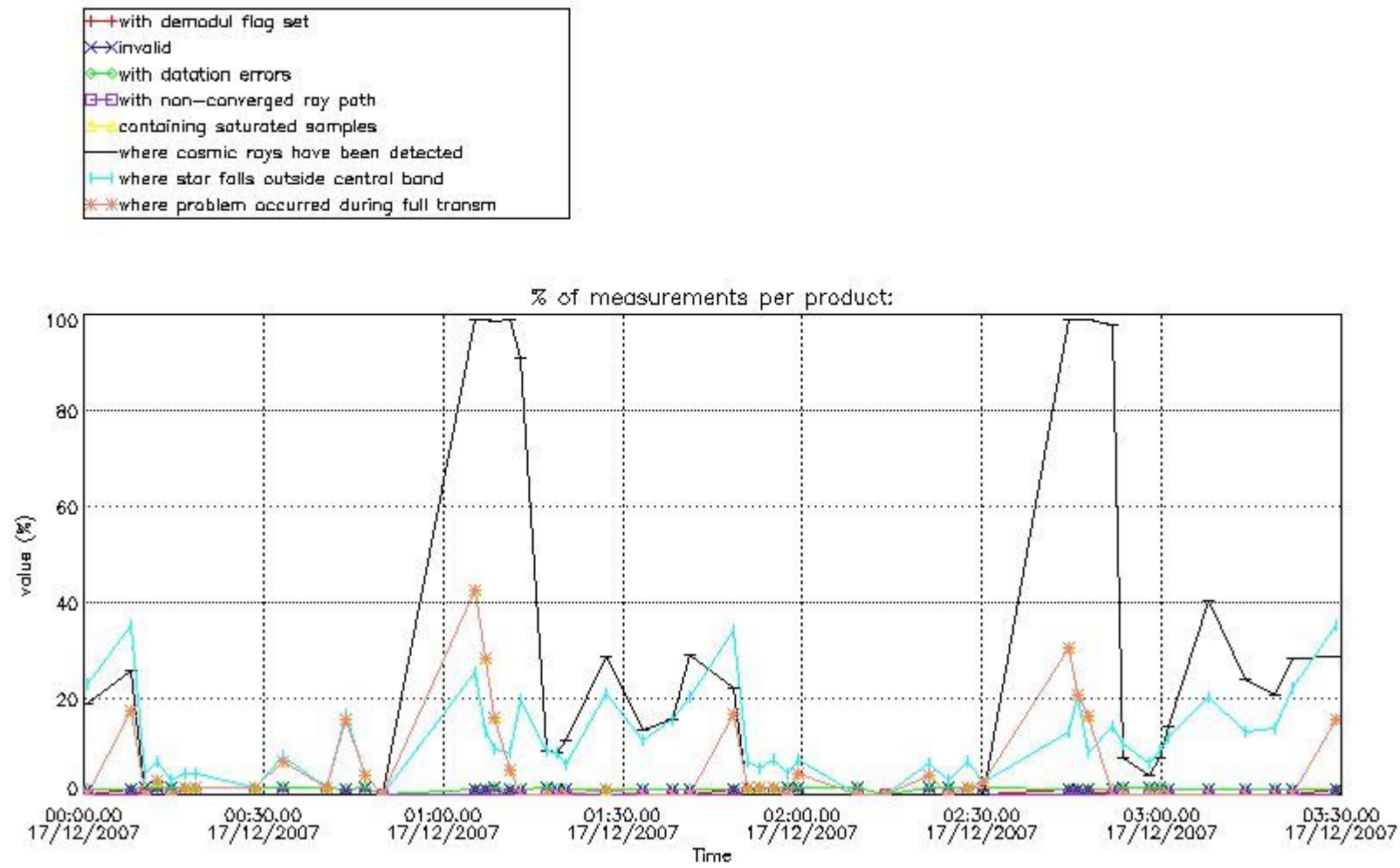
5. Demodulation flag and quality information monitoring

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.

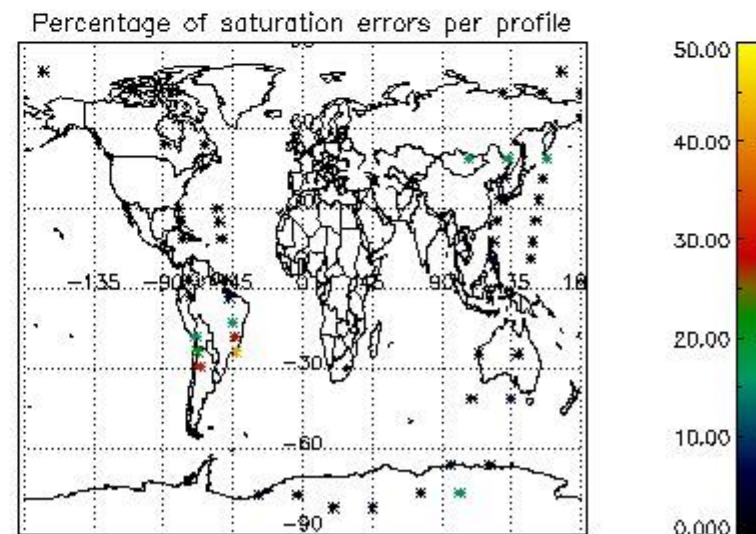
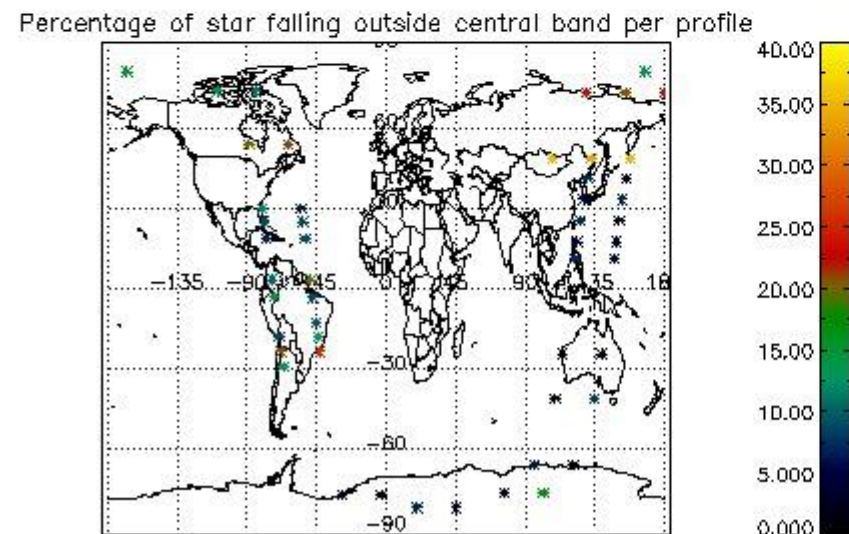
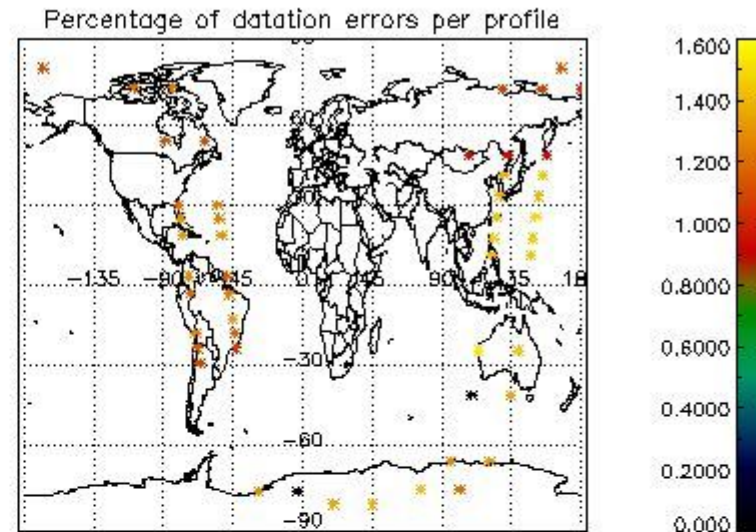
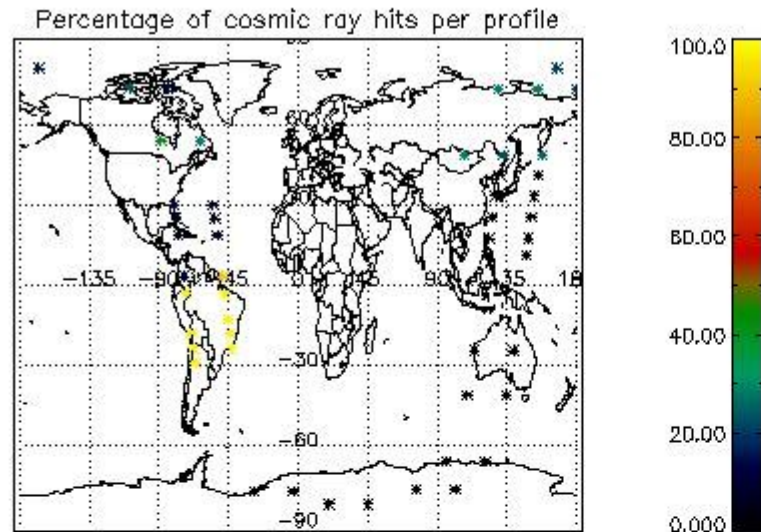
5.1 Percentage of products during reporting period with:

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)



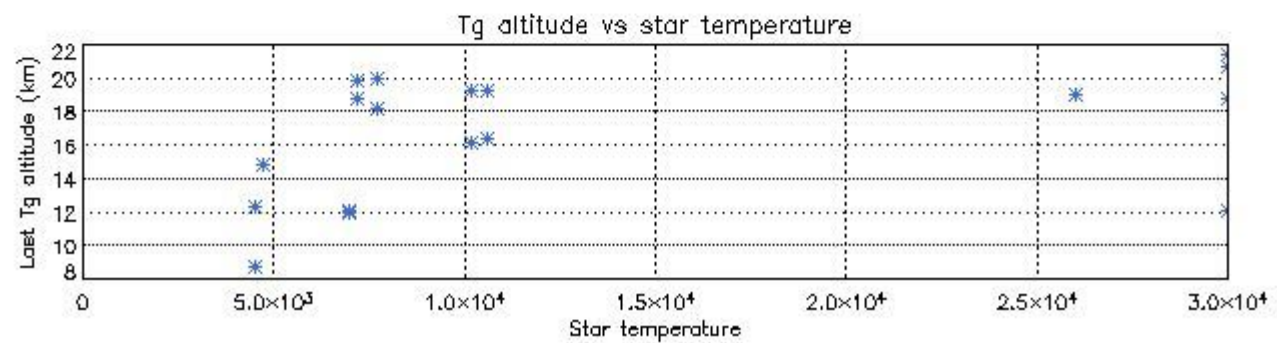
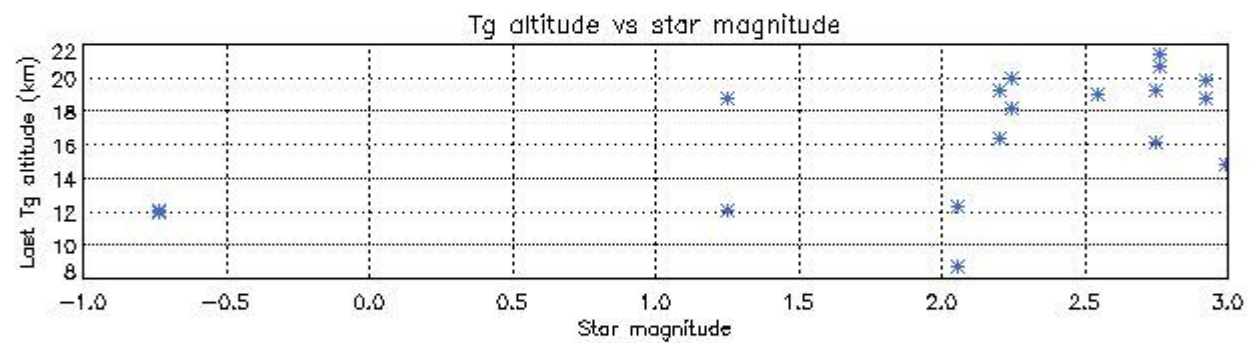
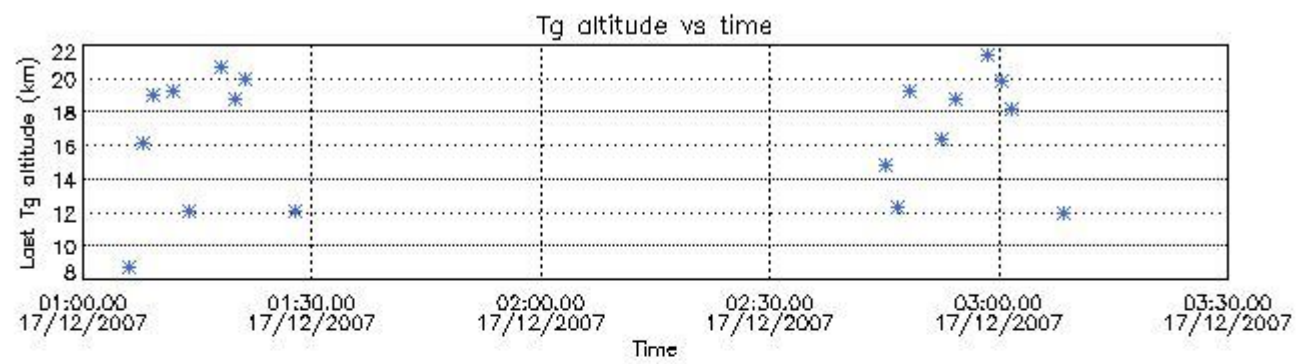
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.629	22.675	NaN
St. deviation:	3.7595	2.8628	NaN
Maximum:	21.392	28.443	NaN
Minimum:	8.7095	14.773	NaN
Number of data:	18.000	22.000	NaN

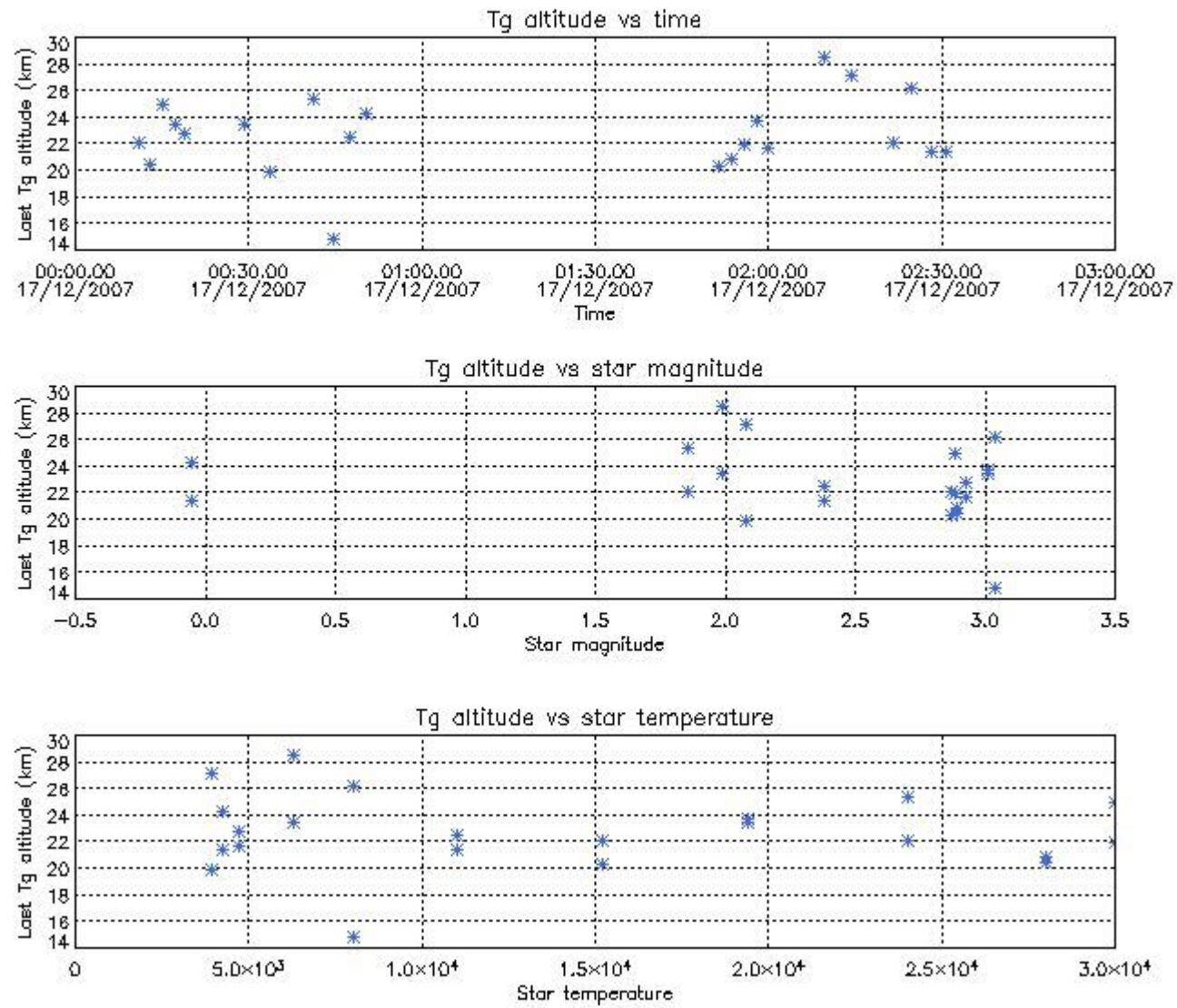
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

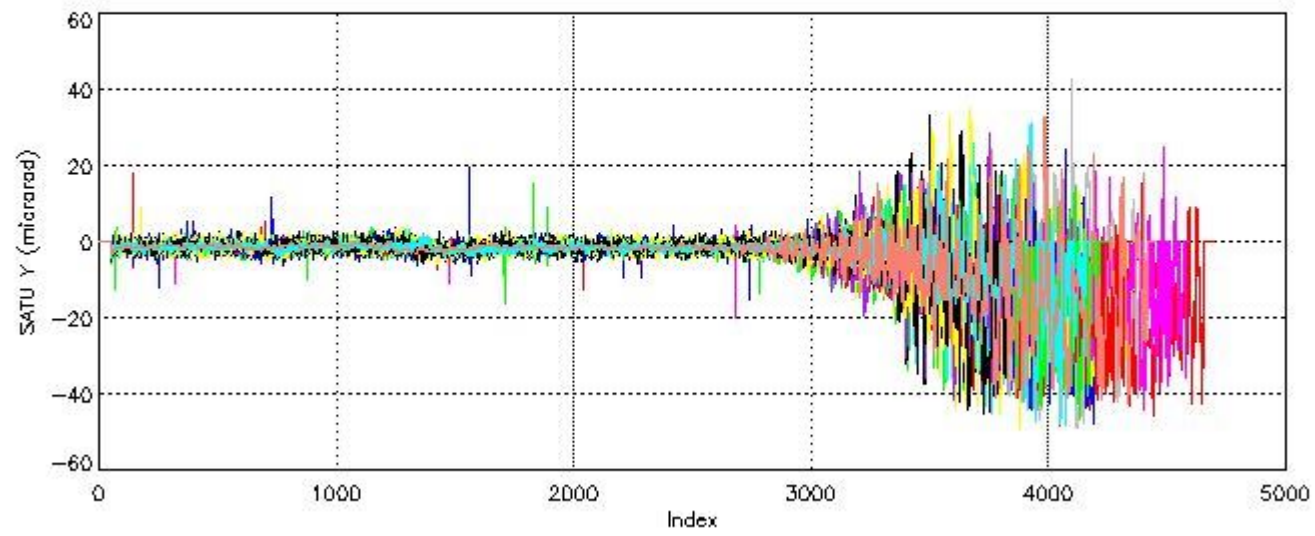
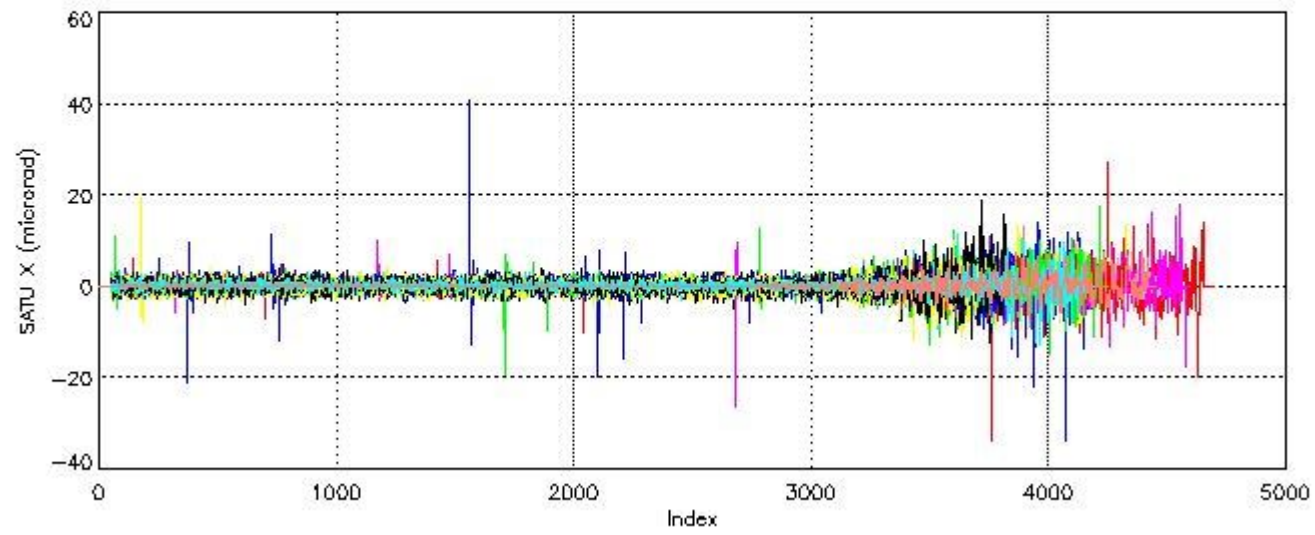


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10685	-1.2934	0.074161	-1.2662
St. deviation:	0.76129	0.94122	0.97988	1.3008
Maximum:	19.400	17.900	6.2000	5.9000
Minimum:	-21.300	-12.600	-6.1000	-8.3000

Number of data:	16450.	16450.	18250.	18250.
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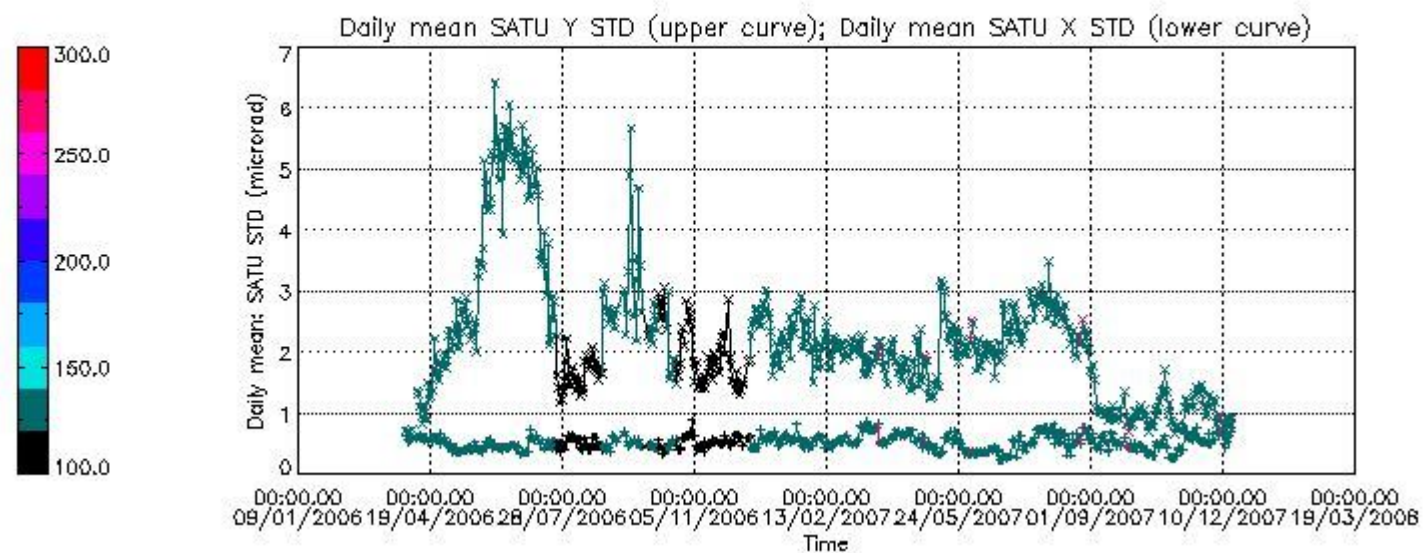
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

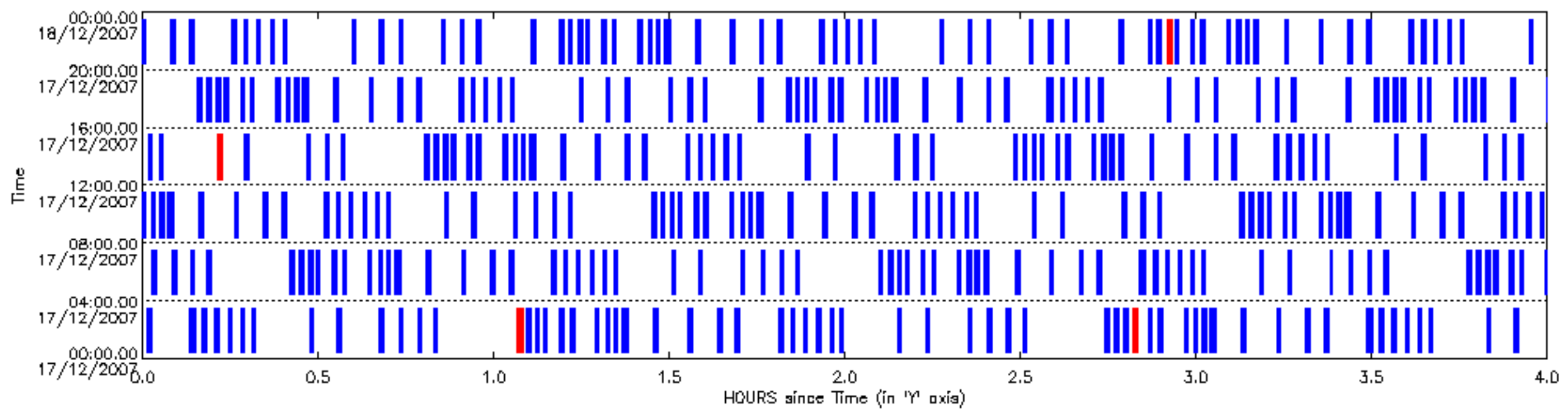
Lower curve: STD of SATU X axis

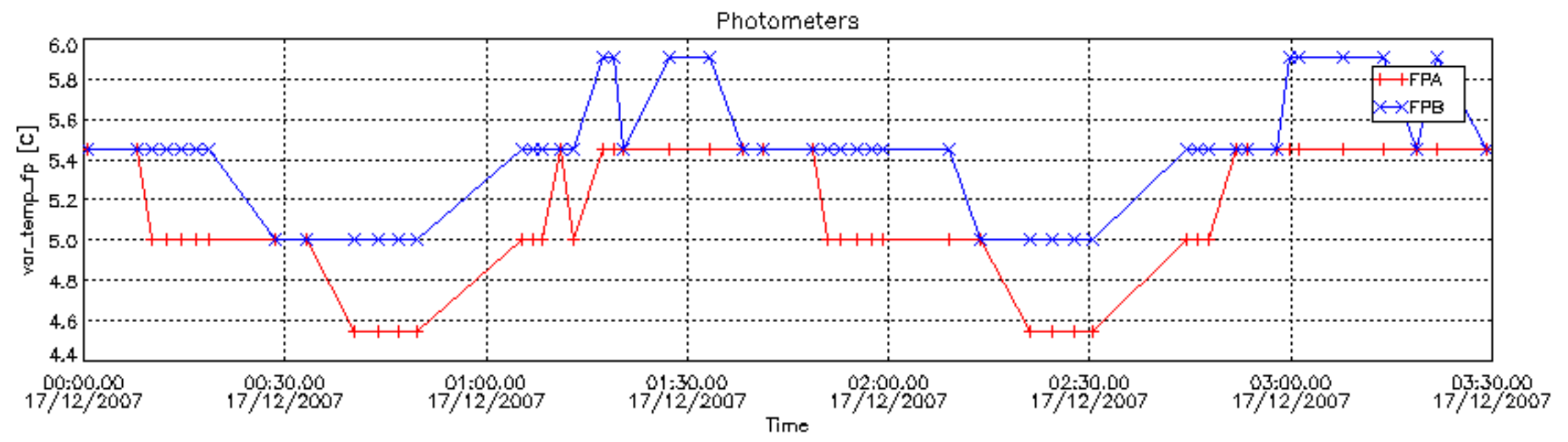
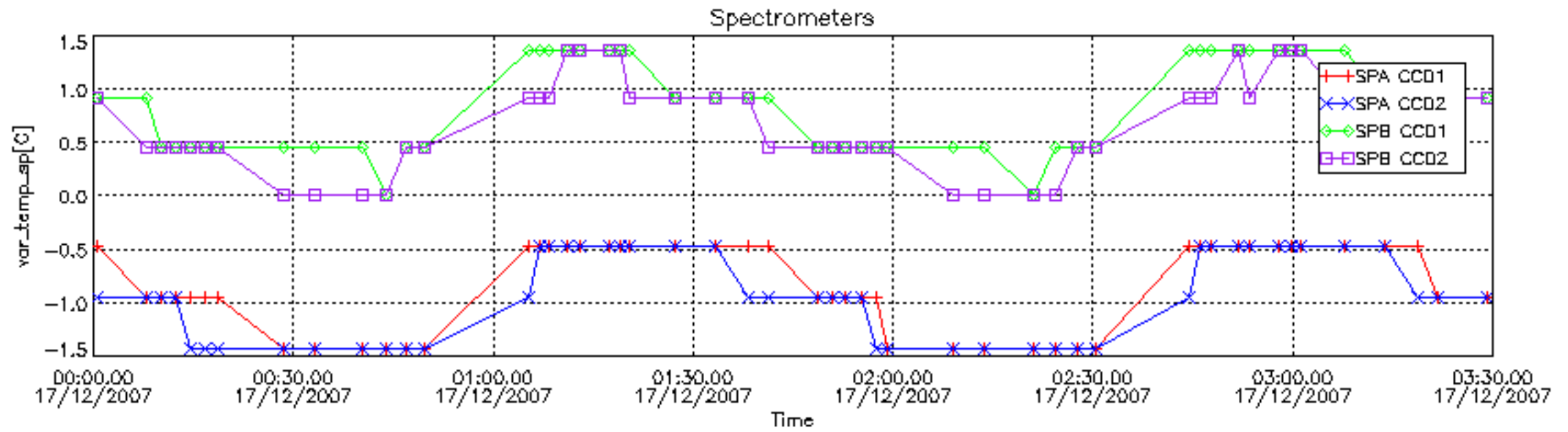


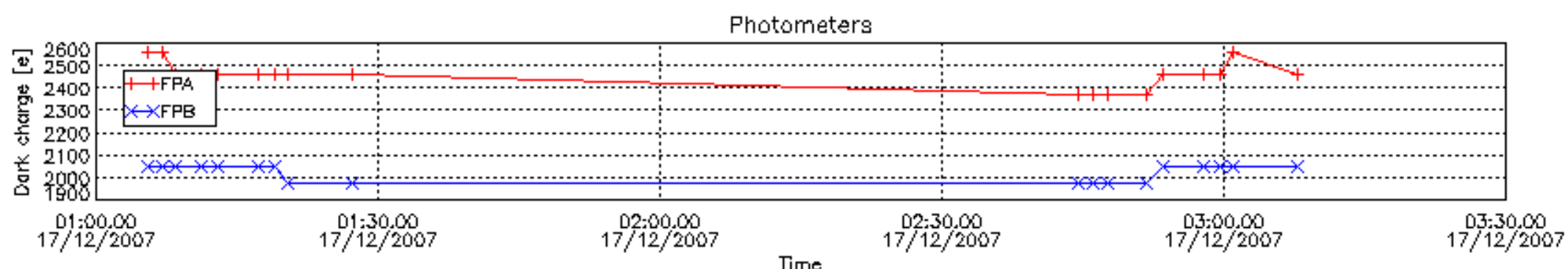
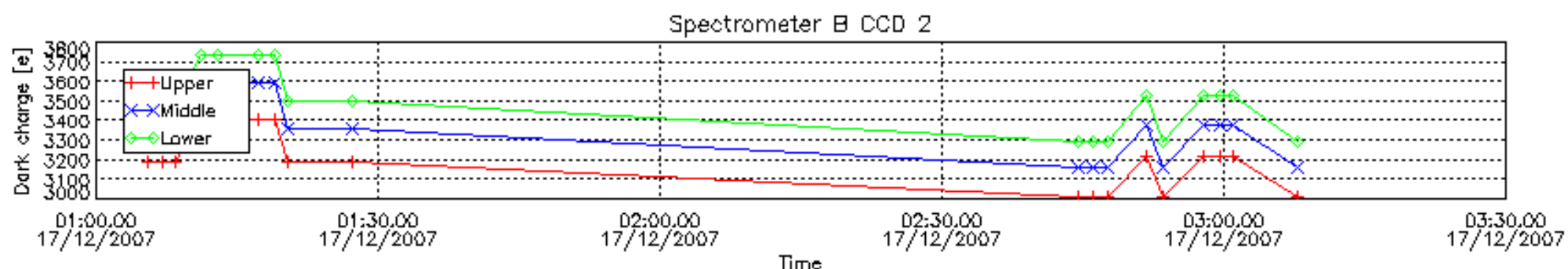
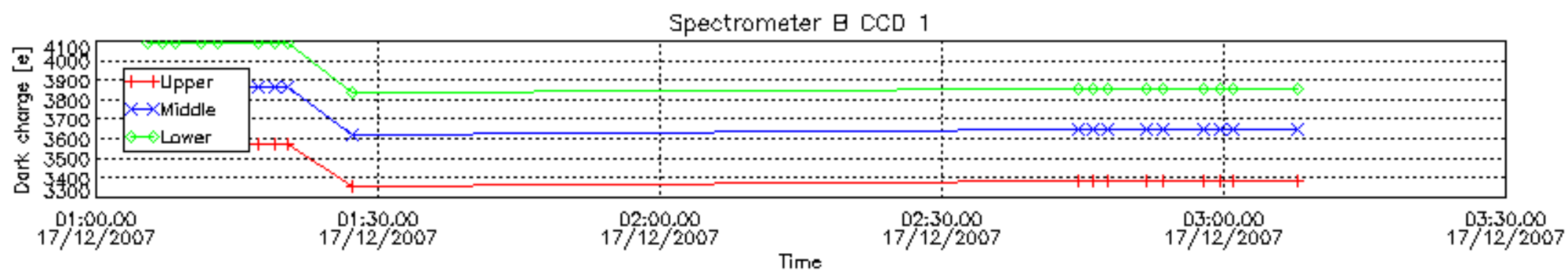
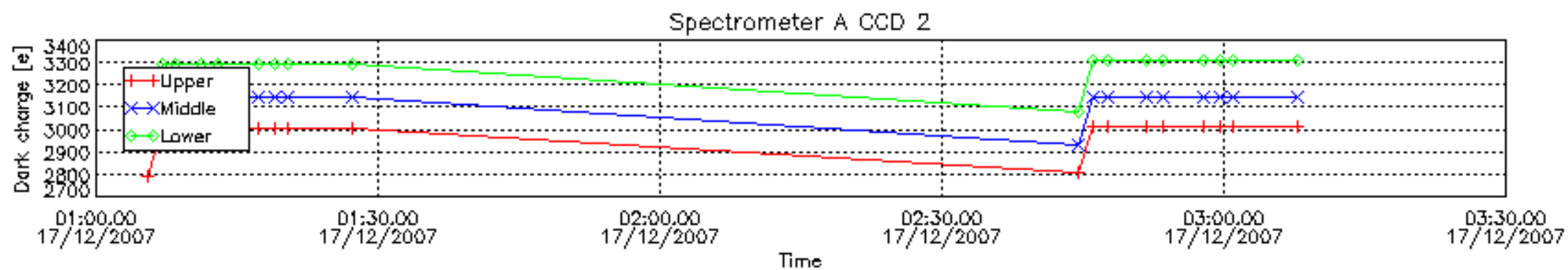
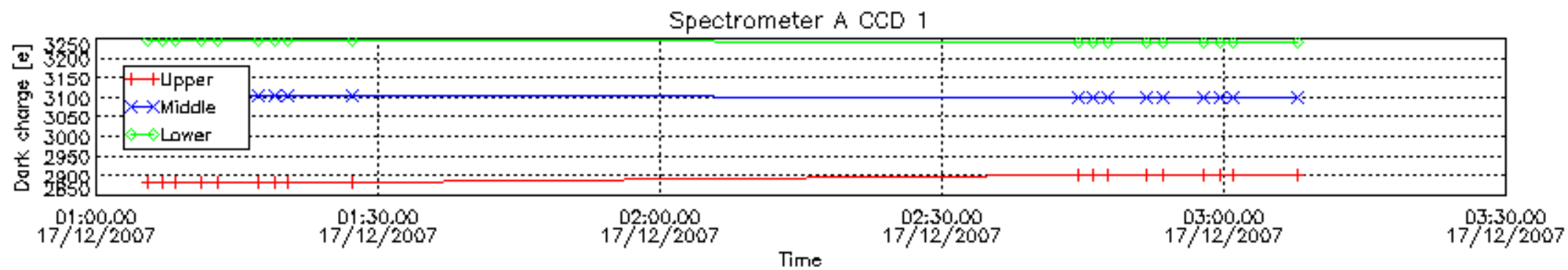
8. Auxiliary Data Files used for the production reported in section 2.4

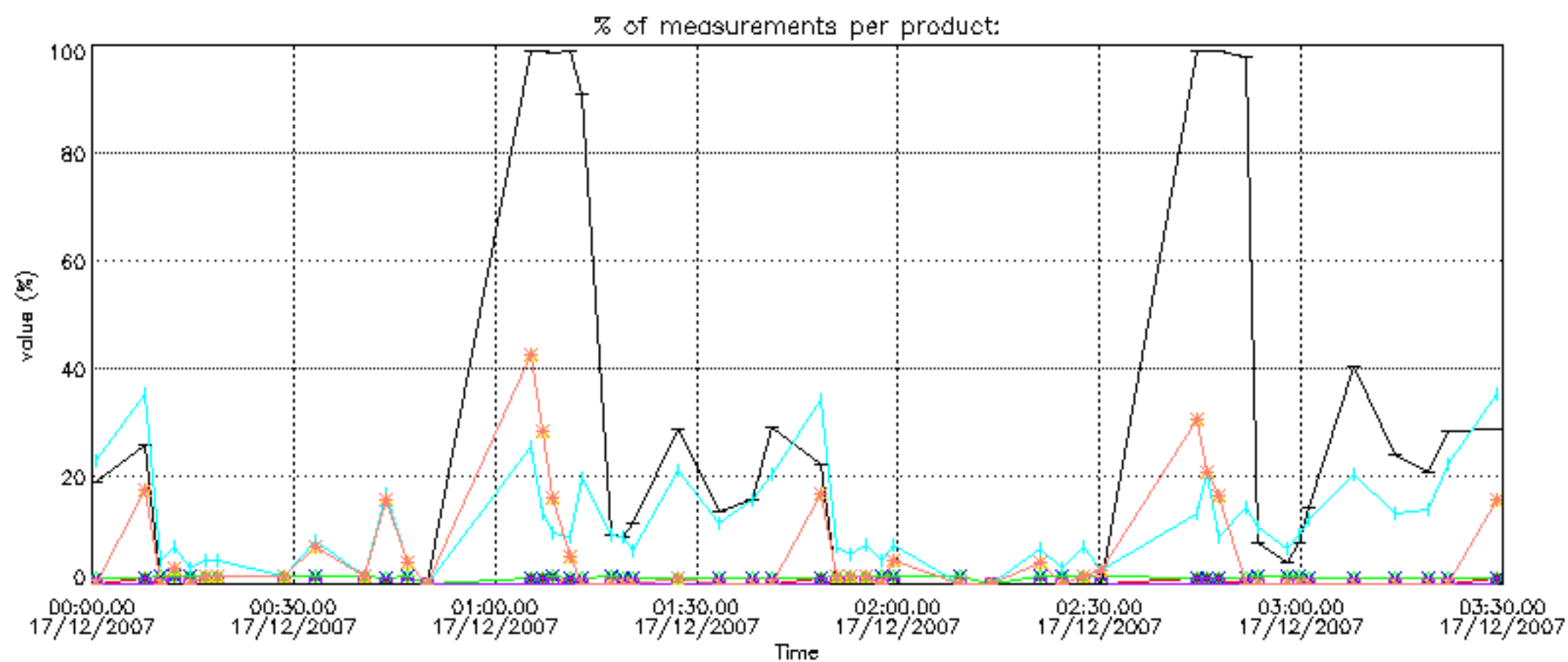
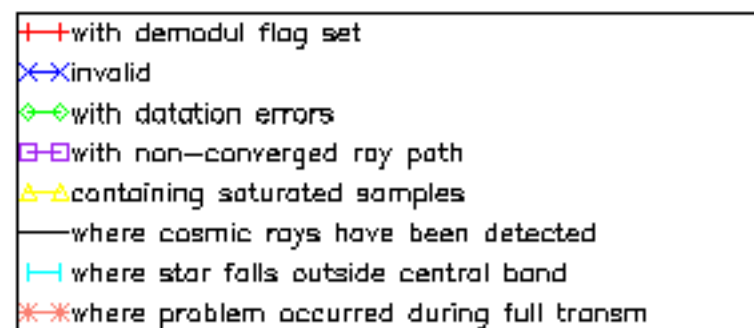
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-DEC-2007 00:00:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071214_094104_20071212_000000_20100101_000000	1	17-DEC-2007 00:00:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-DEC-2007 00:00:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-DEC-2007 00:00:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-DEC-2007 00:00:38
ECMWF_FILE	AUX_ECF_AXNECM20071216_063112_20071216_210000_20071217_090000	1	17-DEC-2007 00:00:38
OPTIONAL_ECMWF_FILE	MISSING	1	17-DEC-2007 00:00:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071216_213726_000057382064_00186_30300_4762.N1	1	17-DEC-2007 00:00:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071216_231823_000057382064_00187_30301_4763.N1	14	17-DEC-2007 01:05:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071217_005921_000041442064_00188_30302_4764.N1	34	17-DEC-2007 02:21:01

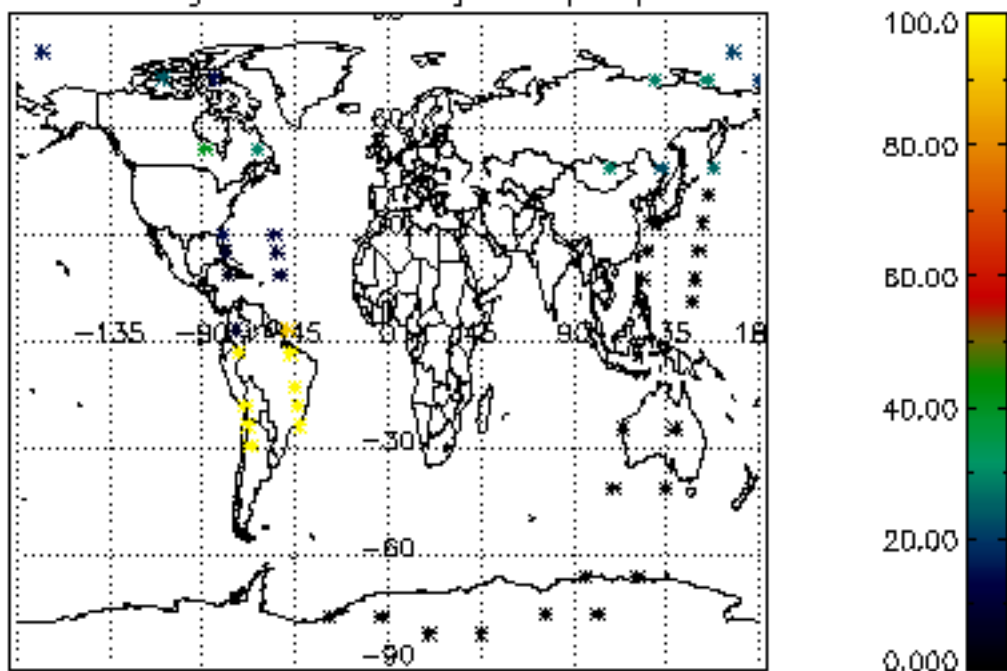




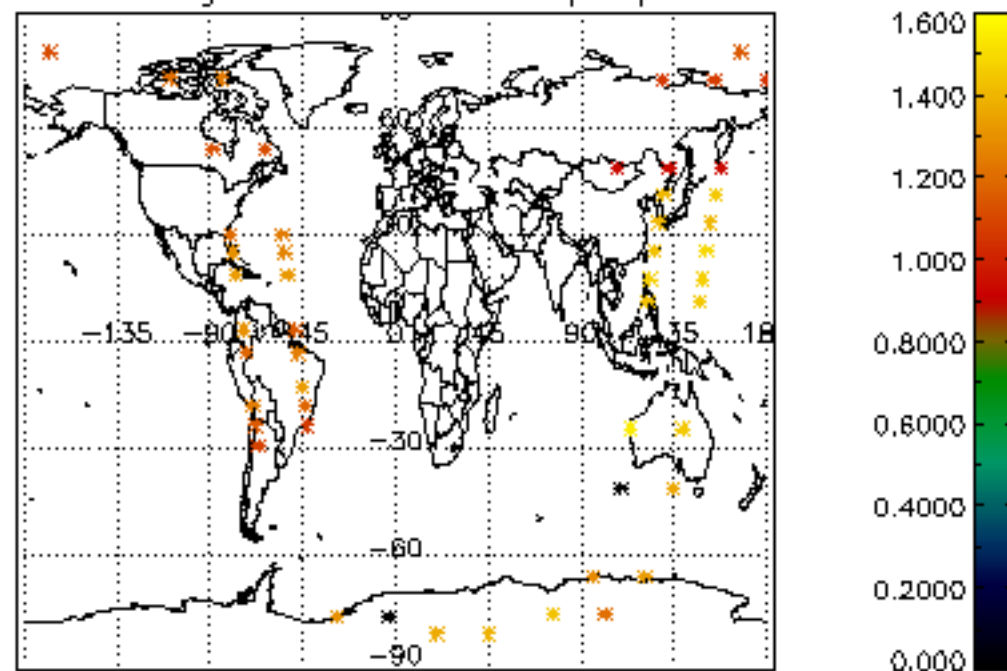




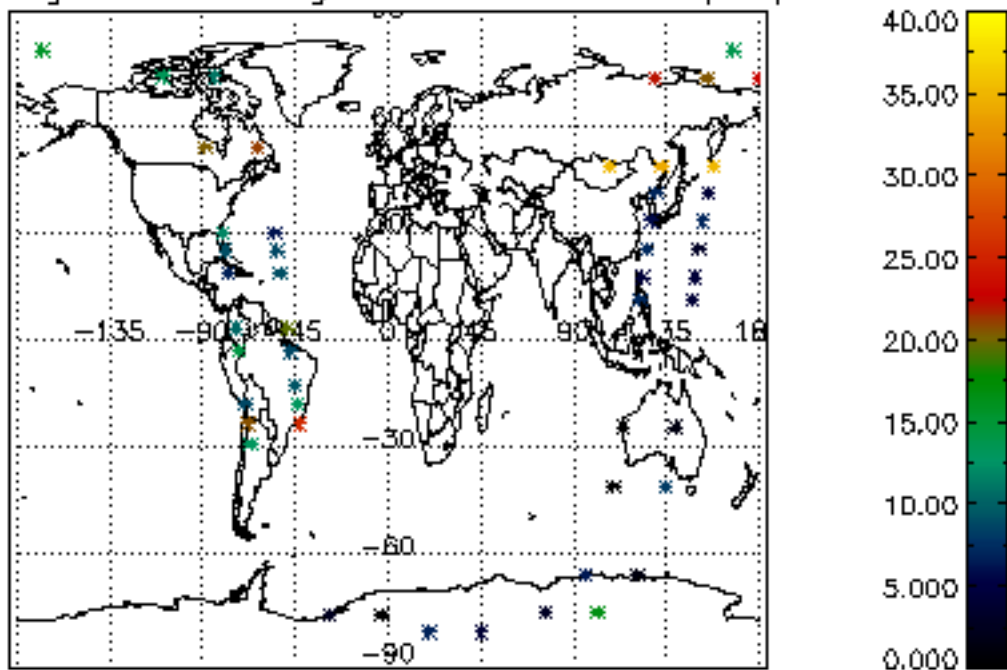
Percentage of cosmic ray hits per profile



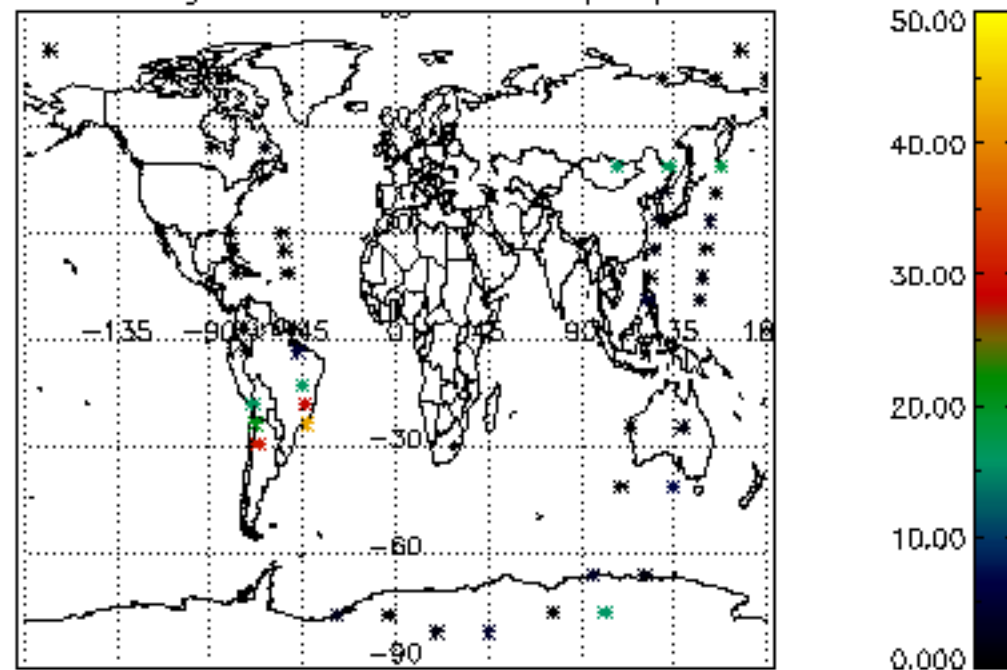
Percentage of datation errors per profile



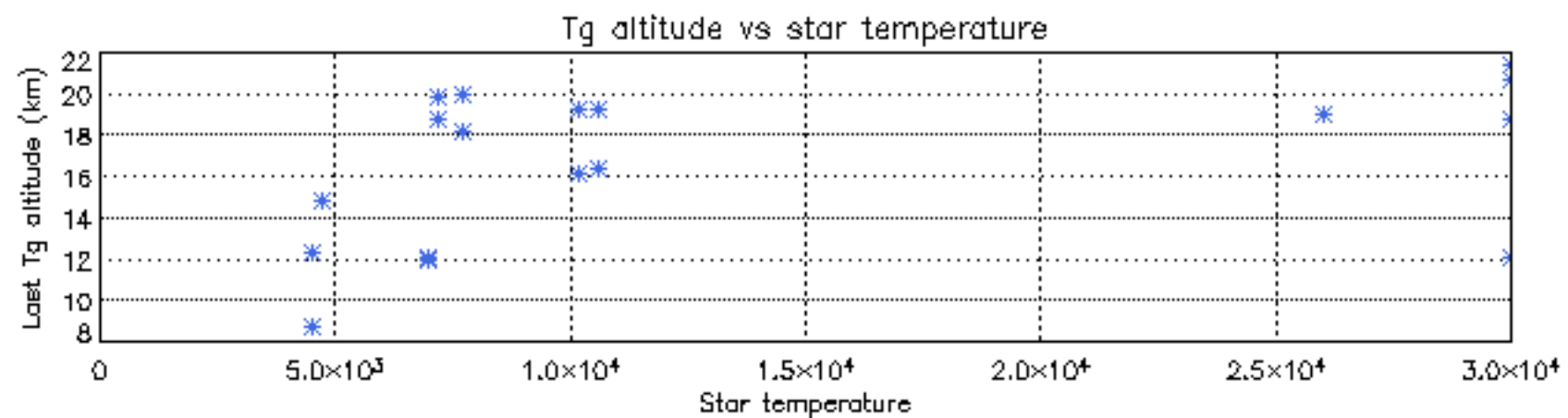
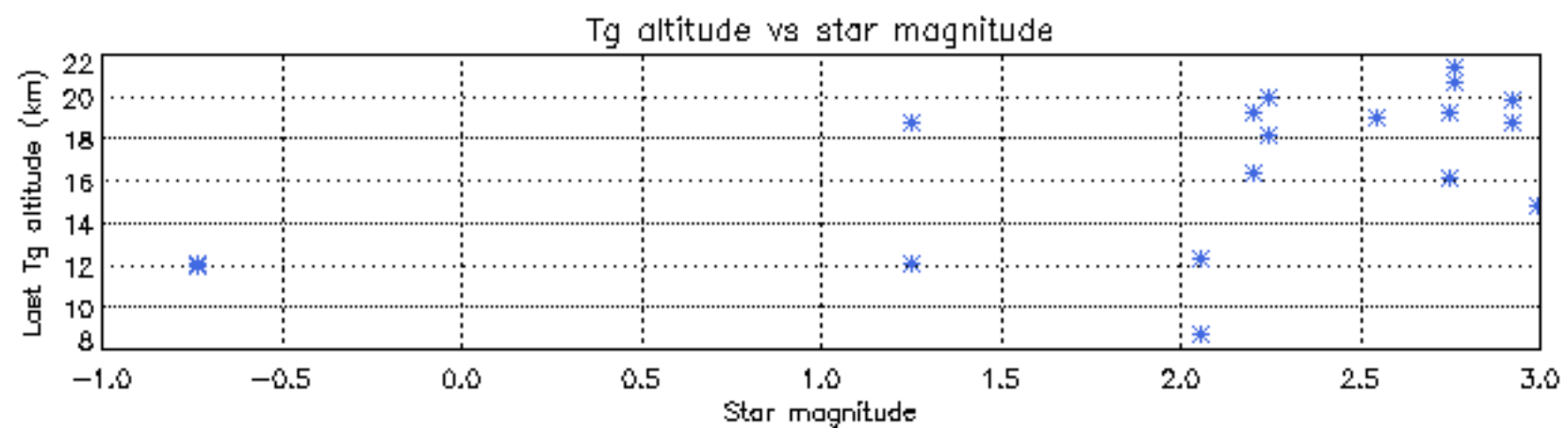
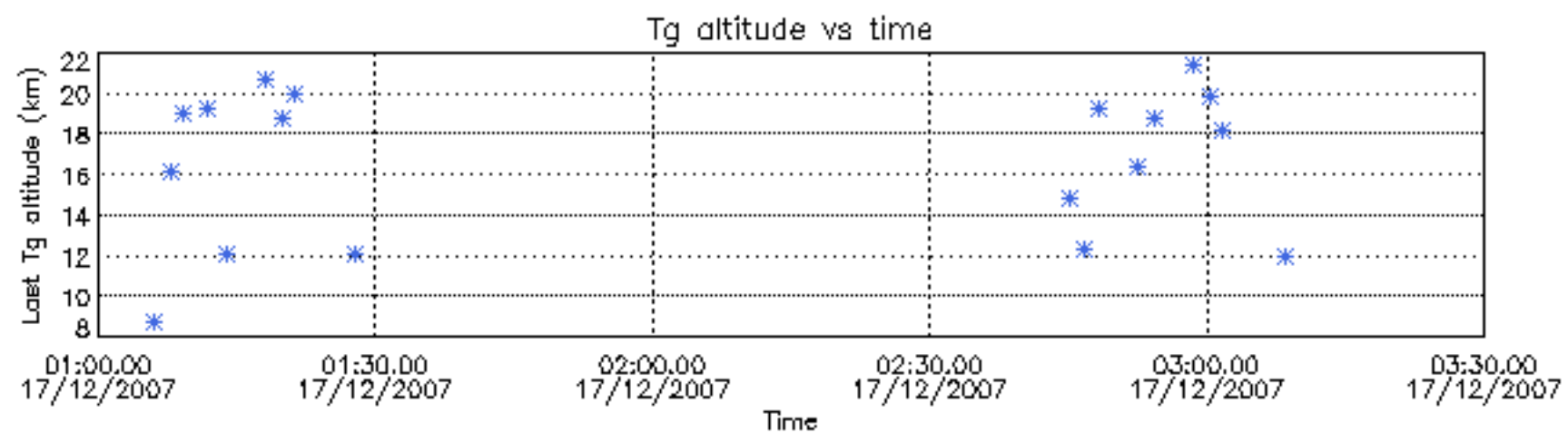
Percentage of star falling outside central band per profile



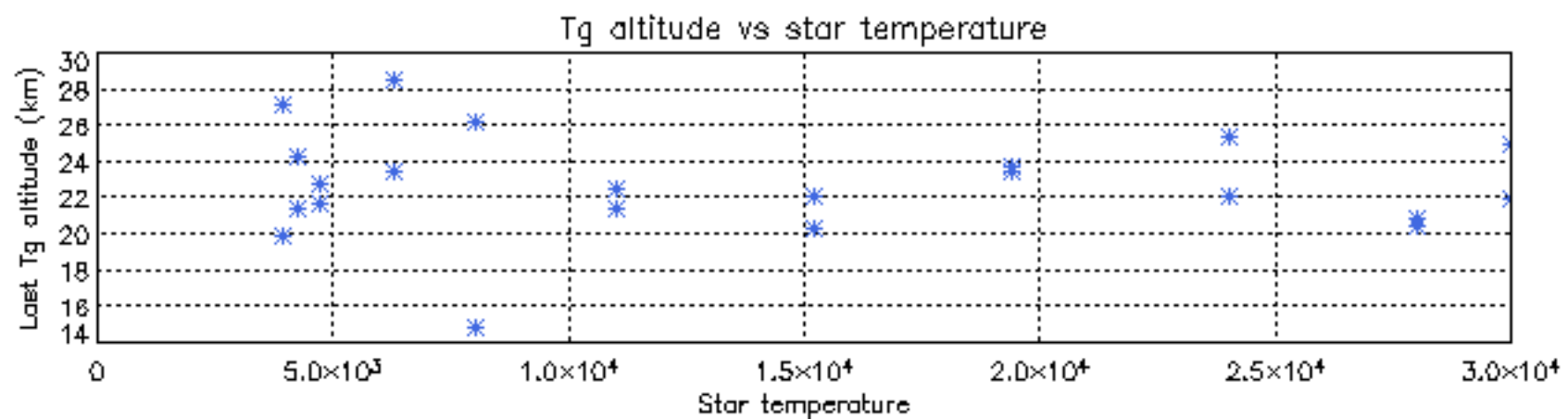
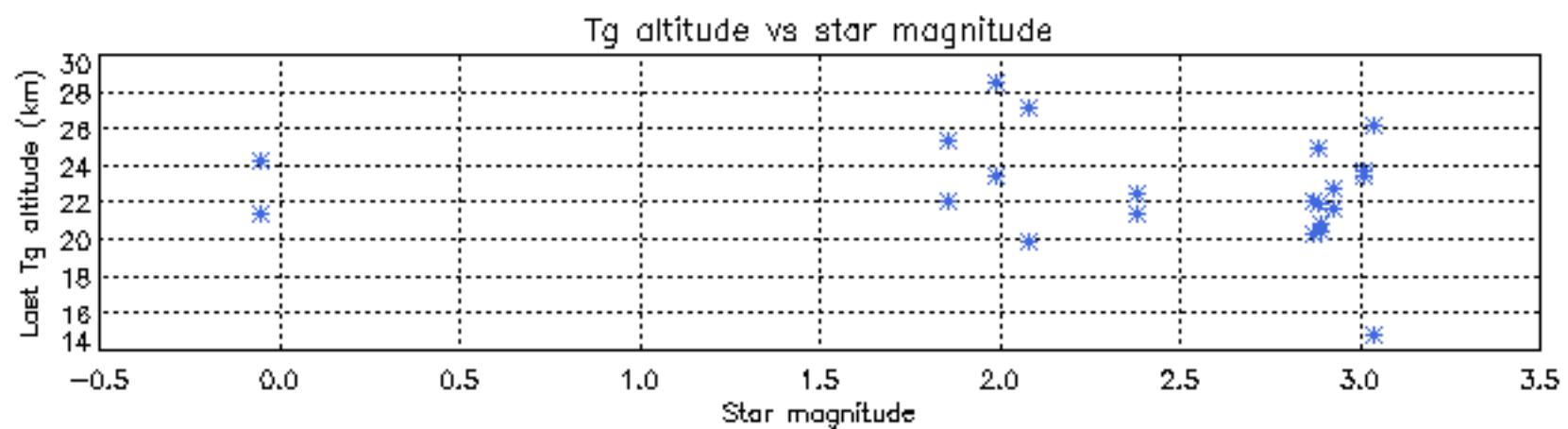
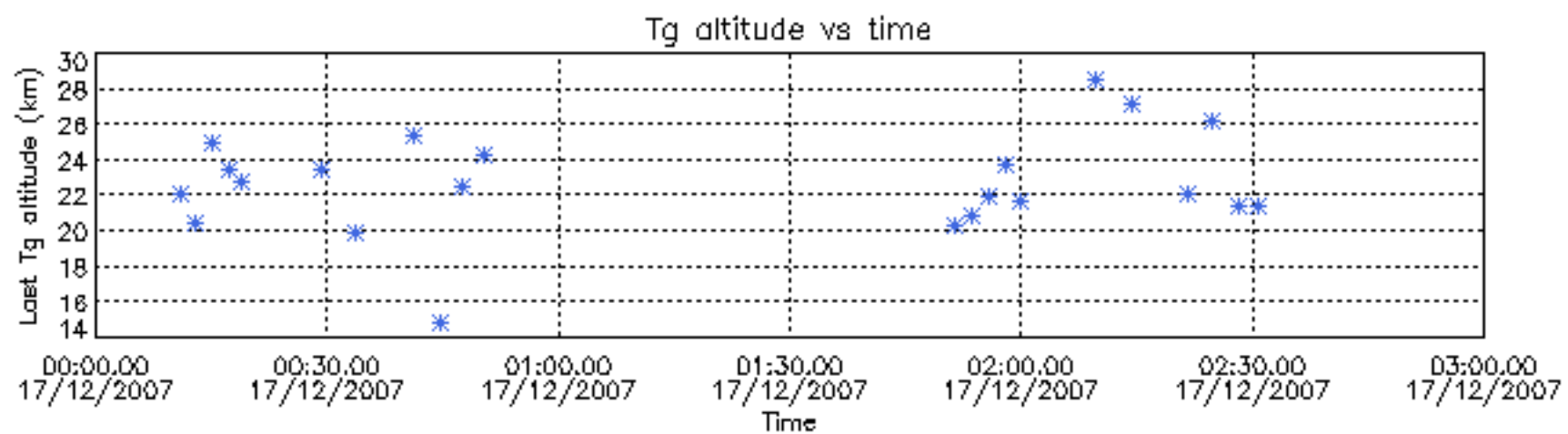
Percentage of saturation errors per profile

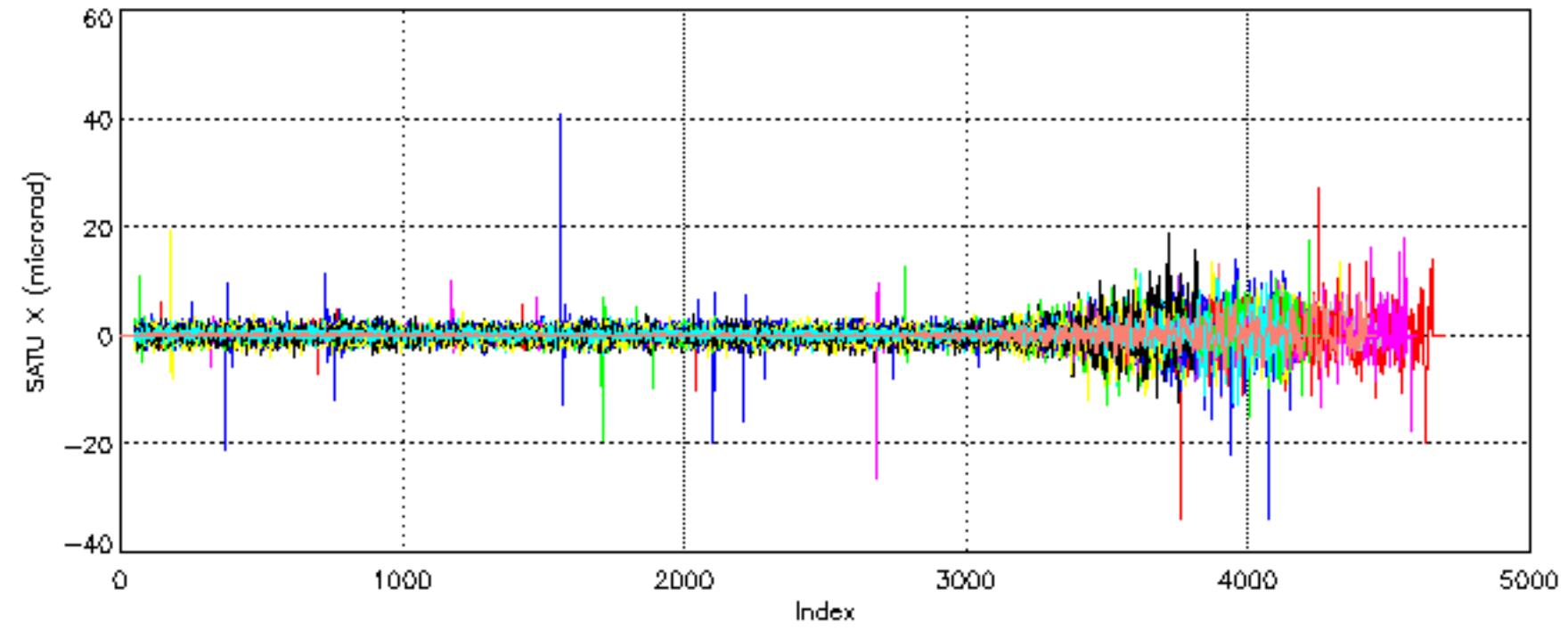


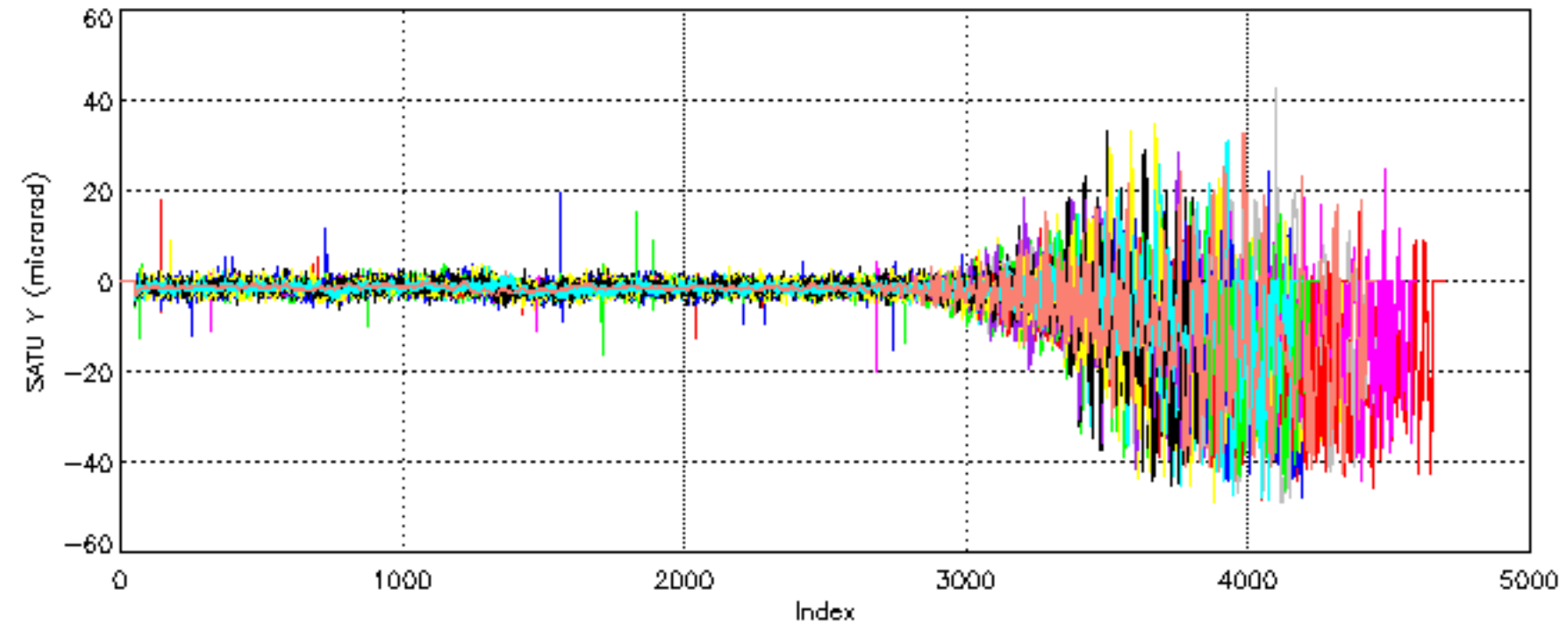
Tangent altitude at which the star is lost

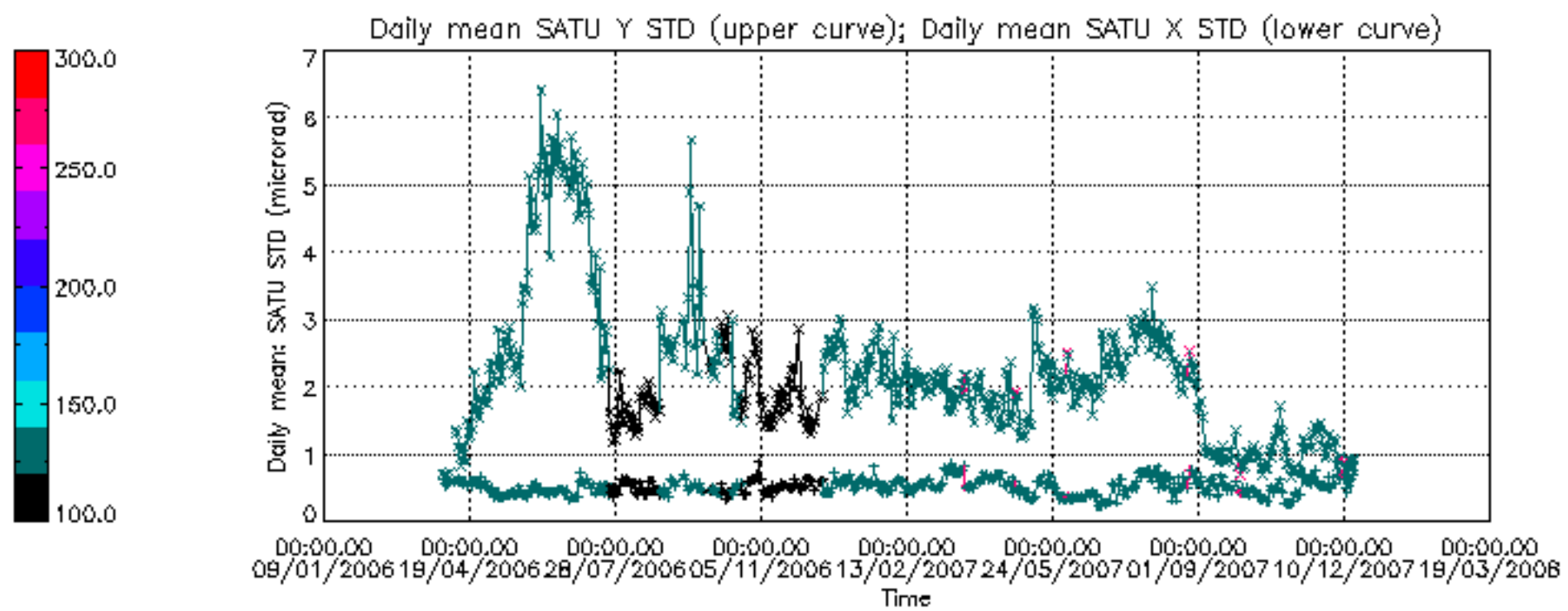


Tangent altitude at which the star is lost









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 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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 9; 481.6; 01-DEC-2007 01:22:57; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30074
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 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
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 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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 4; -1723.4; 01-DEC-2007 02:26:48; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;30074
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26; 3701.8; 01-DEC-2007 05:37:49; Bright; 9.0; 60; 7Bet UMi ; 2.08; 3950;occ; 18; 0;30076
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14; 203.7; 01-DEC-2007 06:20:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30077
15; 370.9; 01-DEC-2007 06:22:54; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30077
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19; 1980.7; 01-DEC-2007 06:49:44; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;30077
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21; 2471.7; 01-DEC-2007 06:57:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30077
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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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 6; -1177.0; 01-DEC-2007 07:37:42; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;30077
 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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 9; -534.8; 01-DEC-2007 07:48:24; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;30077
10; -414.6; 01-DEC-2007 07:50:24; Dark ; 37.5; 123; Iot Cen ; 2.75; 10200;occ; 75; 0;30077
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13; 378.1; 11-DEC-2007 07:49:15; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30221
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 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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 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
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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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 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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 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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 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
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 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
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 19; 2700.5; 27-DEC-2007 23:30:30; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30459
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 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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 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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 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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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
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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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