

GOMOS Daily Report 12-JUL-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	14JUL2007 05:51:03
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (12JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

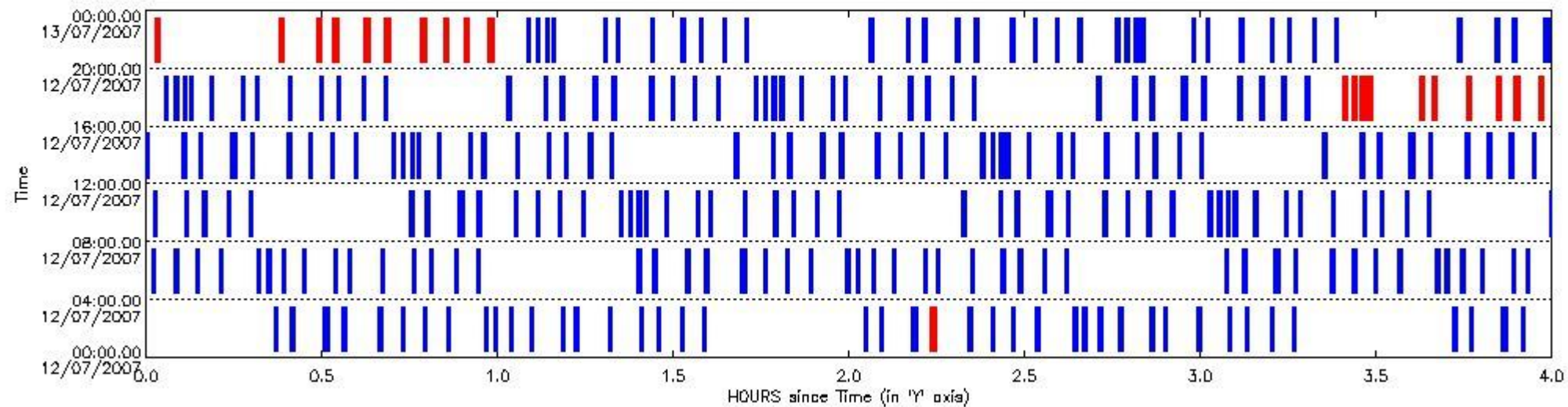
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

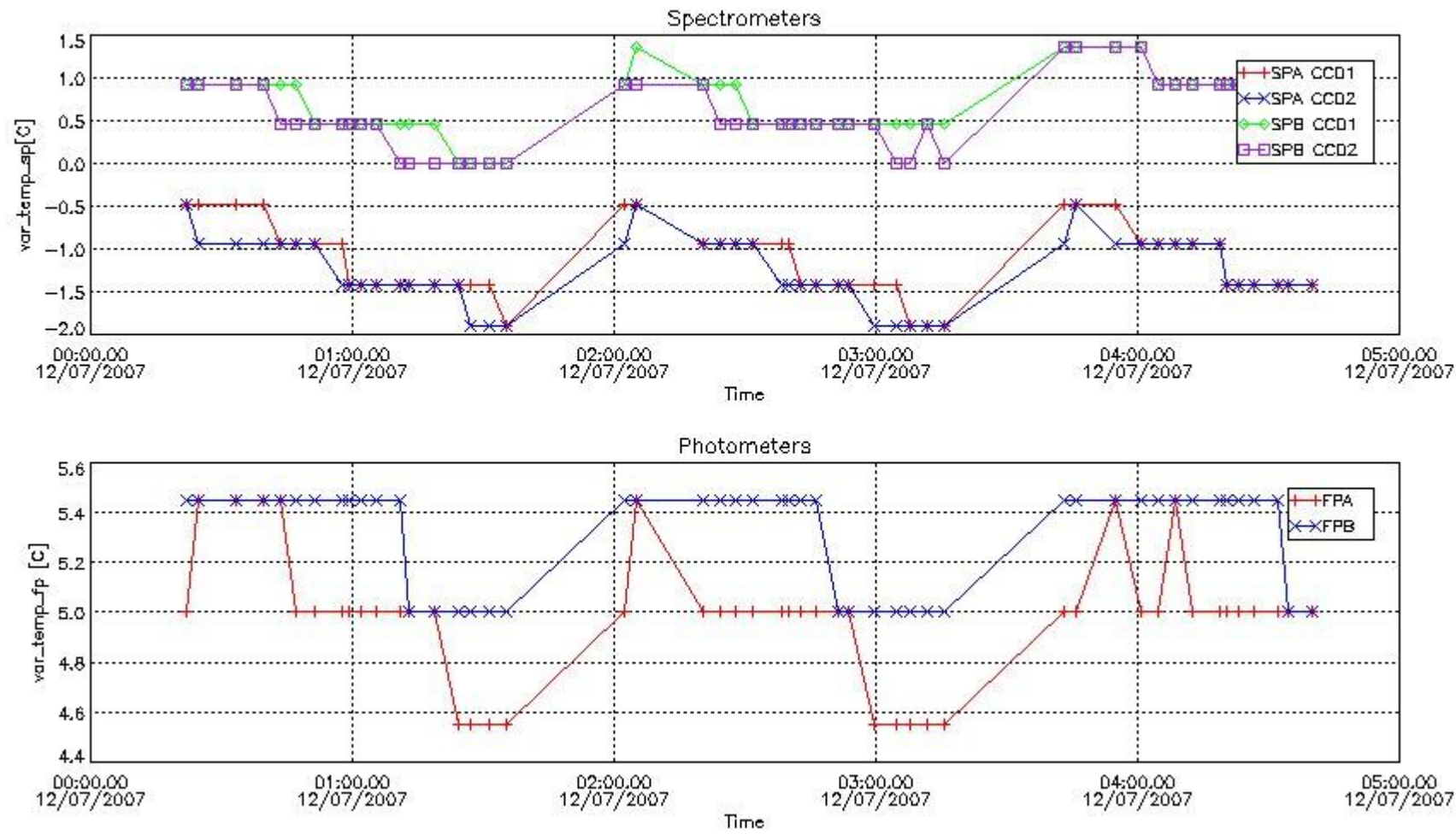
UTC start time	Star name	Star ID	Orbit
12-JUL-2007 02:13:57	The1Eri	157	28041
12-JUL-2007 19:24:09	TheSco	40	28052
12-JUL-2007 19:25:49	35LamSco	25	28052
12-JUL-2007 19:27:19	19DelSgr	116	28052
12-JUL-2007 19:28:28	22LamSgr	137	28052
12-JUL-2007 19:37:18	60BetOph	126	28052
12-JUL-2007 19:39:35	55AlpOph	59	28052
12-JUL-2007 19:45:22	40ZetHer	133	28052
12-JUL-2007 19:50:35	33GamDra	69	28052
12-JUL-2007 19:53:36	14EtaDra	119	28052
12-JUL-2007 19:57:48	7BetUMi	60	28052
12-JUL-2007 20:01:33	1AlpUMi	49	28052
12-JUL-2007 20:22:35	87AlpTau	13	28052
12-JUL-2007 20:28:57	19BetOri	7	28052
12-JUL-2007 20:31:48	34GamEri	165	28052

12-JUL-2007 20:37:15	DSA1061	0	28052
12-JUL-2007 20:40:39	The1Eri	157	28052
12-JUL-2007 20:46:50	AlpEri	9	28053
12-JUL-2007 20:50:40	BetHyi	135	28053
12-JUL-2007 20:54:23	AlpTuc	148	28053
12-JUL-2007 20:58:23	AlpPav	45	28053

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_1PNPDE20070712_002152_000000382059_00431_28040_1715.N1	12-JUL-2007 00:21:52	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28040	No
2	GOM_TRA_1PNPDE20070712_002440_000000412059_00431_28040_1716.N1	12-JUL-2007 00:24:40	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	28040	No
3	GOM_TRA_1PNPDE20070712_003329_000000402059_00431_28040_1840.N1	12-JUL-2007 00:33:29	Dark	40.000	157	The1Eri	2.9060	9300.0	80	28040	No
4	GOM_TRA_1PNPDE20070712_003940_000000422059_00432_28041_1841.N1	12-JUL-2007 00:39:40	Dark	41.500	9	Alp Eri	0.45300	24000.	83	28041	No
5	GOM_TRA_1PNPDE20070712_004334_000000382059_00432_28041_1842.N1	12-JUL-2007 00:43:34	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	28041	No
6	GOM_TRA_1PNPDE20070712_004714_000000332059_00432_28041_1843.N1	12-JUL-2007 00:47:14	Straylight	33.000	148	Alp Tuc	2.8780	4100.0	66	28041	No
7	GOM_TRA_1PNPDE20070712_005116_000000412059_00432_28041_1844.N1	12-JUL-2007 00:51:16	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28041	No
8	GOM_TRA_1PNPDE20070712_005741_000000412059_00432_28041_1845.N1	12-JUL-2007 00:57:41	Tw_i_and_stray	41.000	40	The Sco	1.8590	7100.0	82	28041	No
9	GOM_TRA_1PNPDE20070712_005920_000000382059_00432_28041_1846.N1	12-JUL-2007 00:59:20	Bright	38.000	25	35Lam Sco	1.6200	28000.	76	28041	No
10	GOM_TRA_1PNPDE20070712_010200_000000392059_00432_28041_1847.N1	12-JUL-2007 01:02:00	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	28041	No
11	GOM_TRA_1PNPDE20070712_010530_000000372059_00432_28041_1848.N1	12-JUL-2007 01:05:30	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	28041	No
12	GOM_TRA_1PNPDE20070712_011050_000000352059_00432_28041_1849.N1	12-JUL-2007 01:10:50	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	28041	No
13	GOM_TRA_1PNPDE20070712_011307_000000372059_00432_28041_1850.N1	12-JUL-2007 01:13:07	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	28041	No
14	GOM_TRA_1PNPDE20070712_011852_000000372059_00432_28041_1851.N1	12-JUL-2007 01:18:52	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	28041	No
15	GOM_TRA_1PNPDE20070712_012409_000000382059_00432_28041_1852.N1	12-JUL-2007 01:24:09	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	28041	No
16	GOM_TRA_1PNPDE20070712_012708_000000352059_00432_28041_1853.N1	12-JUL-2007 01:27:08	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	28041	No
17	GOM_TRA_1PNPDE20070712_013119_000000322059_00432_28041_1854.N1	12-JUL-2007 01:31:19	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28041	No
18	GOM_TRA_1PNPDE20070712_013506_000000342059_00432_28041_1855.N1	12-JUL-2007 01:35:06	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28041	No
19	GOM_TRA_1PNPDE20070712_020228_000000392059_00432_28041_1977.N1	12-JUL-2007 02:02:28	Dark	38.500	7	19Bet Ori	0.10000	14000.	77	28041	No
20	GOM_TRA_1PNPDE20070712_020516_000000392059_00432_28041_1978.N1	12-JUL-2007 02:05:16	Dark	38.500	165	34Gam Eri	2.9500	3200.0	77	28041	No
21	GOM_TRA_1PNPDE20070712_022016_000000412059_00433_28042_1979.N1	12-JUL-2007 02:20:16	Dark	41.000	9	Alp Eri	0.45300	24000.	82	28042	No
22	GOM_TRA_1PNPDE20070712_022410_000000372059_00433_28042_1980.N1	12-JUL-2007 02:24:10	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28042	No
23	GOM_TRA_1PNPDE20070712_022750_000000342059_00433_28042_1981.N1	12-JUL-2007 02:27:50	Straylight	34.000	148	Alp Tuc	2.8780	4100.0	68	28042	No
24	GOM_TRA_1PNPDE20070712_023152_000000402059_00433_28042_1982.N1	12-JUL-2007 02:31:52	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	28042	No
25	GOM_TRA_1PNPDE20070712_023817_000000432059_00433_28042_1983.N1	12-JUL-2007 02:38:17	Tw_i_and_stray	43.000	40	The Sco	1.8590	7100.0	86	28042	No
26	GOM_TRA_1PNPDE20070712_023957_000000402059_00433_28042_1984.N1	12-JUL-2007 02:39:57	Bright	40.000	25	35Lam Sco	1.6200	28000.	80	28042	No
27	GOM_TRA_1PNPDE20070712_024236_000000402059_00433_28042_1985.N1	12-JUL-2007 02:42:36	Bright	40.000	137	22Lam Sgr	2.8240	4400.0	80	28042	No
28	GOM_TRA_1PNPDE20070712_024606_000000372059_00433_28042_1986.N1	12-JUL-2007 02:46:06	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	28042	No
29	GOM_TRA_1PNPDE20070712_025126_000000352059_00433_28042_1987.N1	12-JUL-2007 02:51:26	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	28042	No
30	GOM_TRA_1PNPDE20070712_025343_000000372059_00433_28042_1988.N1	12-JUL-2007 02:53:43	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	28042	No
31	GOM_TRA_1PNPDE20070712_025928_000000372059_00433_28042_1989.N1	12-JUL-2007 02:59:28	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	28042	No
32	GOM_TRA_1PNPDE20070712_030445_000000352059_00433_28042_1990.N1	12-JUL-2007 03:04:45	Bright	35.000	69	33Gam Dra	2.2310	3800.0	70	28042	No
33	GOM_TRA_1PNPDE20070712_030744_000000332059_00433_28042_1991.N1	12-JUL-2007 03:07:44	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	28042	No
34	GOM_TRA_1PNPDE20070712_031155_000000342059_00433_28042_1992.N1	12-JUL-2007 03:11:55	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28042	No
35	GOM_TRA_1PNPDE20070712_031542_000000342059_00433_28042_1993.N1	12-JUL-2007 03:15:42	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28042	No
36	GOM_TRA_1PNPDE20070712_034304_000000462059_00433_28042_2126.N1	12-JUL-2007 03:43:04	Dark	45.500	7	19Bet Ori	0.10000	14000.	91	28042	No
37	GOM_TRA_1PNPDE20070712_034552_000000372059_00433_28042_2127.N1	12-JUL-2007 03:45:52	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	28042	No
38	GOM_TRA_1PNPDE20070712_035442_000000432059_00433_28042_2128.N1	12-JUL-2007 03:54:42	Dark	43.000	157	The1Eri	2.9060	9300.0	86	28042	No
39	GOM_TRA_1PNPDE20070712_040053_000000452059_00434_28043_2129.N1	12-JUL-2007 04:00:53	Dark	44.500	9	Alp Eri	0.45300	24000.	89	28043	No
40	GOM_TRA_1PNPDE20070712_040446_000000372059_00434_28043_2130.N1	12-JUL-2007 04:04:46	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28043	No
41	GOM_TRA_1PNPDE20070712_040827_000000342059_00434_28043_2131.N1	12-JUL-2007 04:08:27	Straylight	34.000	148	Alp Tuc	2.8780	4100.0	68	28043	No
42	GOM_TRA_1PNPDE20070712_041229_000000412059_00434_28043_2132.N1	12-JUL-2007 04:12:29	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28043	No
43	GOM_TRA_1PNPDE20070712_041853_000000422059_00434_28043_2133.N1	12-JUL-2007 04:18:53	Tw_i_and_stray	41.500	40	The Sco	1.8590	7100.0	83	28043	No
44	GOM_TRA_1PNPDE20070712_042033_000000402059_00434_28043_2134.N1	12-JUL-2007 04:20:33	Bright	40.000	25	35Lam Sco	1.6200	28000.	80	28043	No
45	GOM_TRA_1PNPDE20070712_042312_000000402059_00434_28043_2135.N1	12-JUL-2007 04:23:12	Bright	39.500	137	22Lam Sgr	2.8240	4400.0	79	28043	No
46	GOM_TRA_1PNPDE20070712_042642_000000372059_00434_28043_2136.N1	12-JUL-2007 04:26:42	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	28043	No
47	GOM_TRA_1PNPDE20070712_043202_000000352059_00434_28043_2137.N1	12-JUL-2007 04:32:02	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	28043	No
48	GOM_TRA_1PNPDE20070712_043419_000000342059_00434_28043_2138.N1	12-JUL-2007 04:34:19	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	28043	No

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



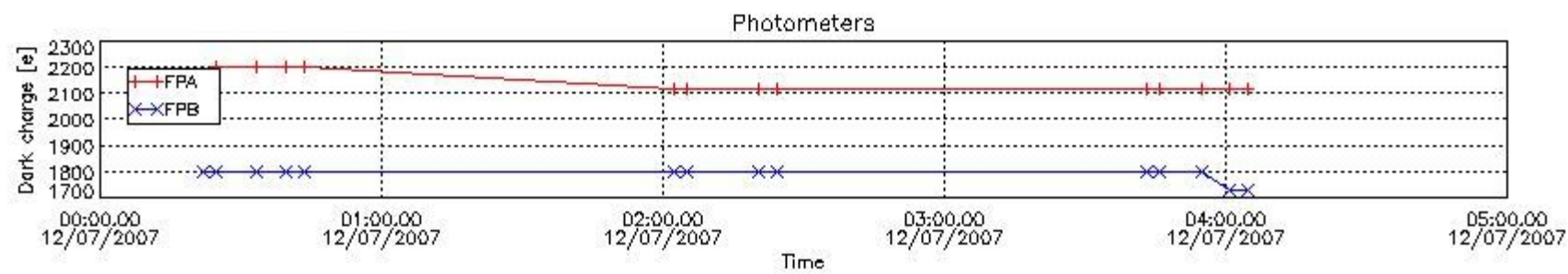
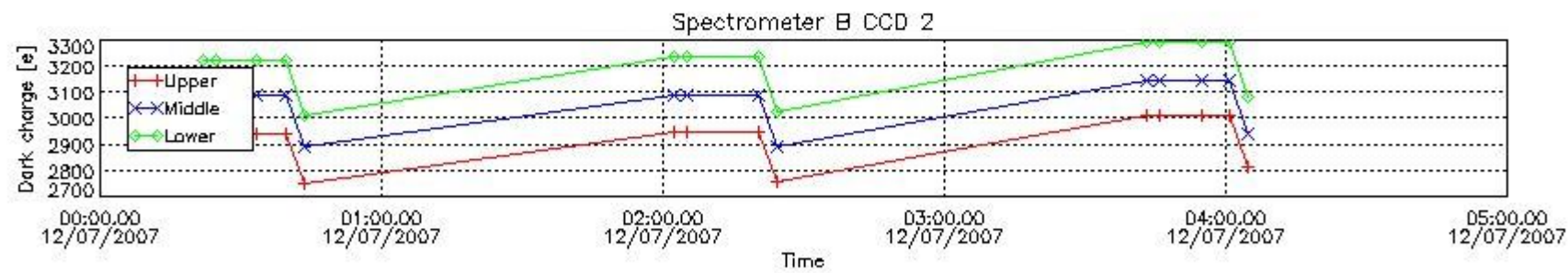
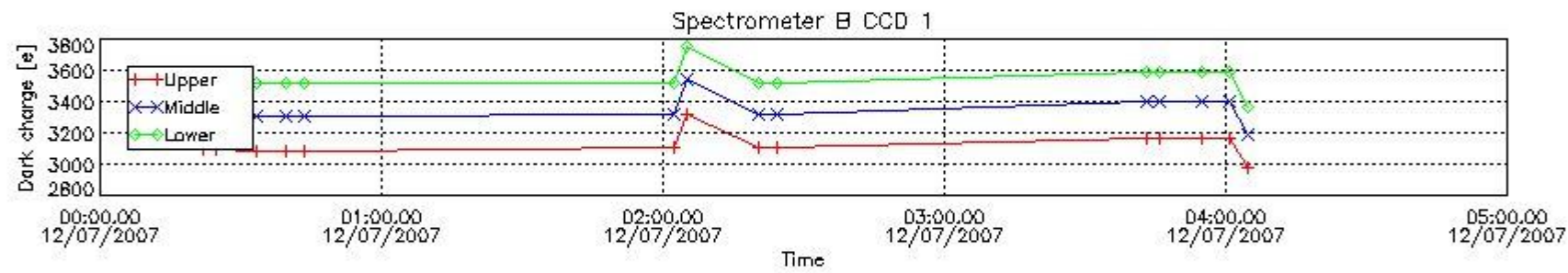
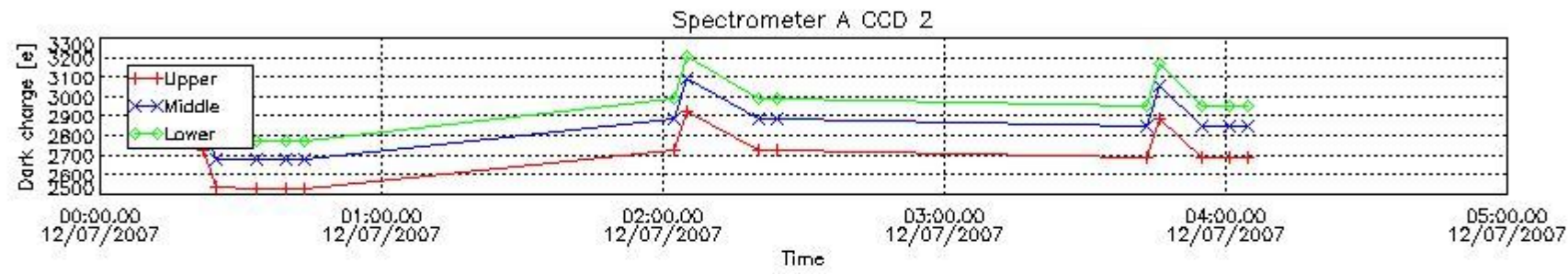
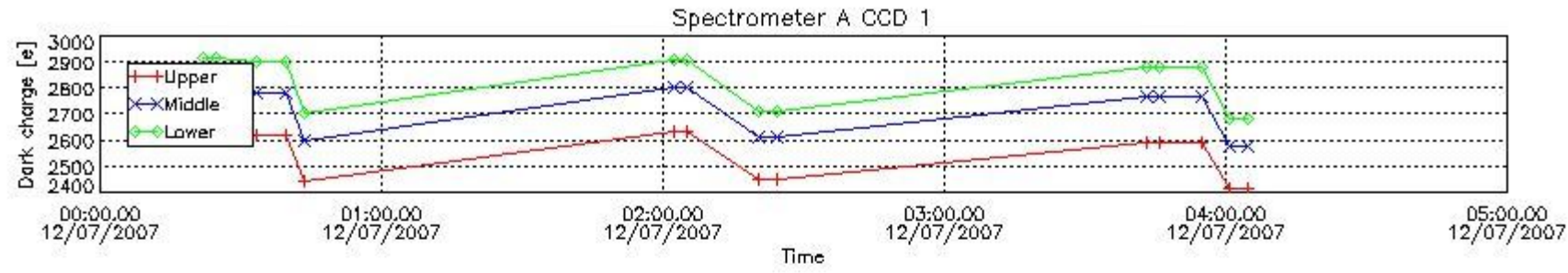
4. Overview of dark signal processing per product

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



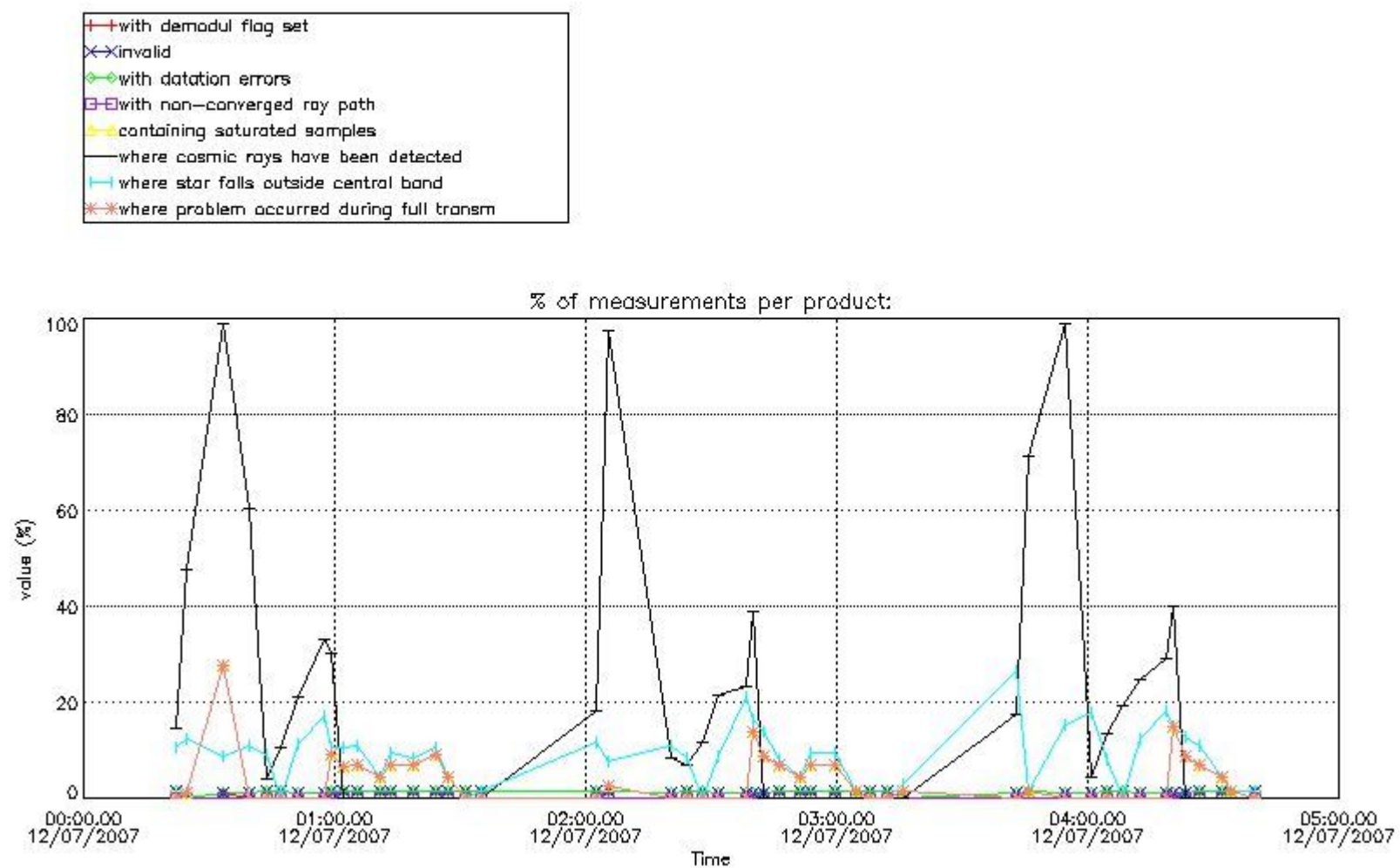
5. Demodulation flag and quality information monitoring

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.

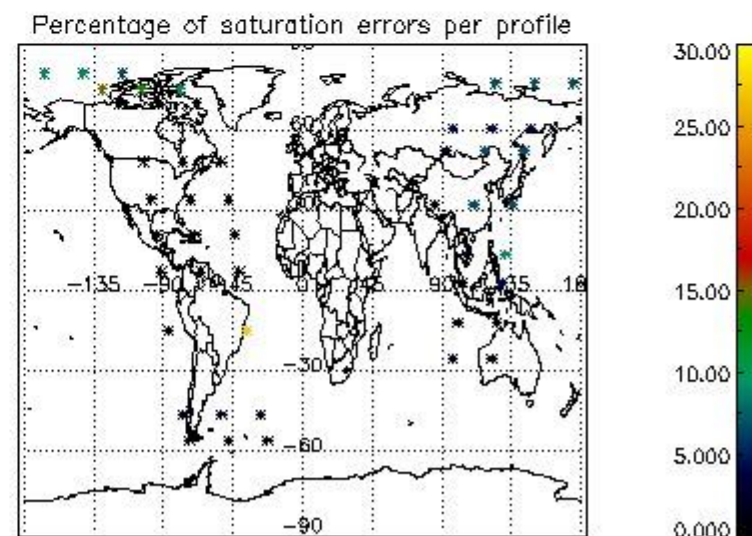
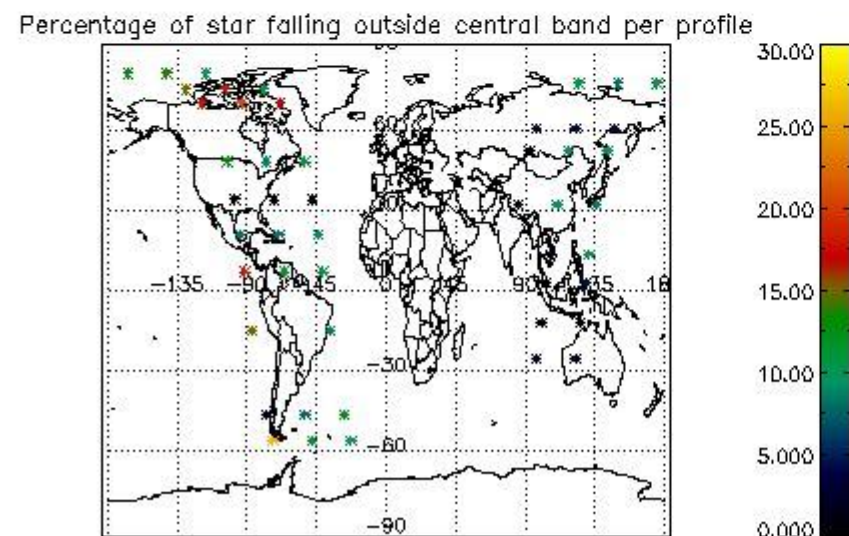
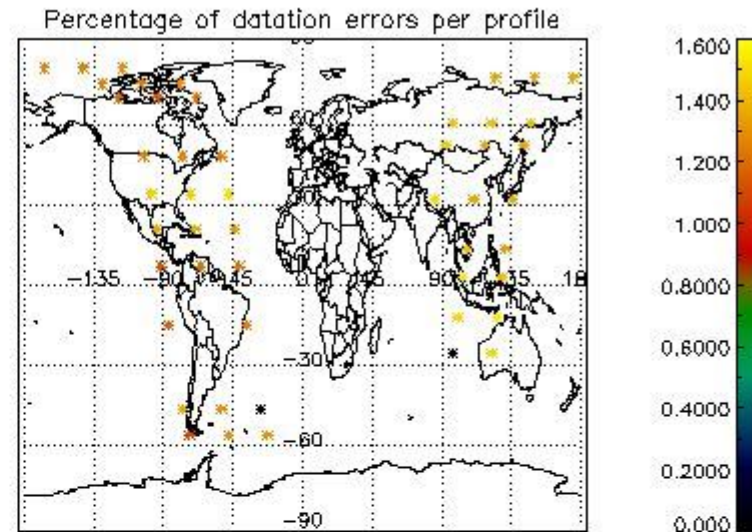
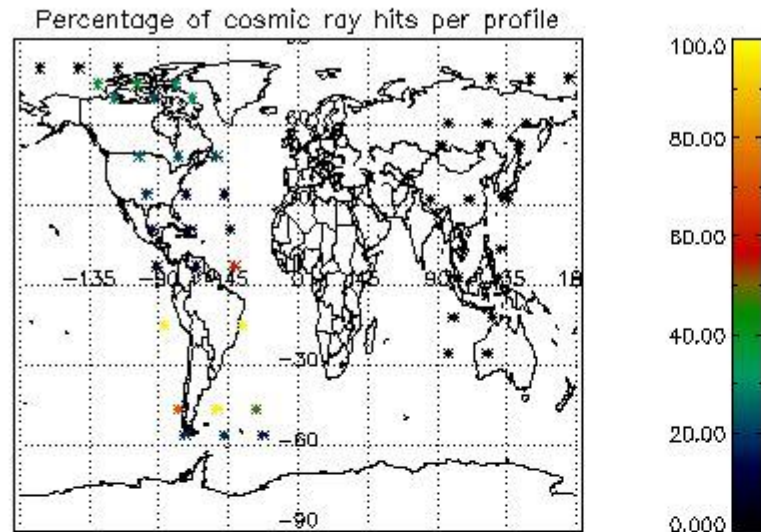
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



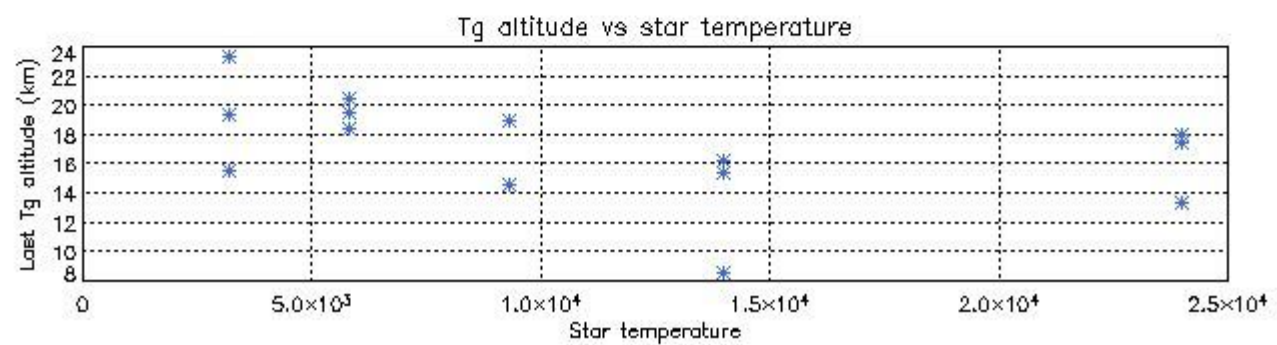
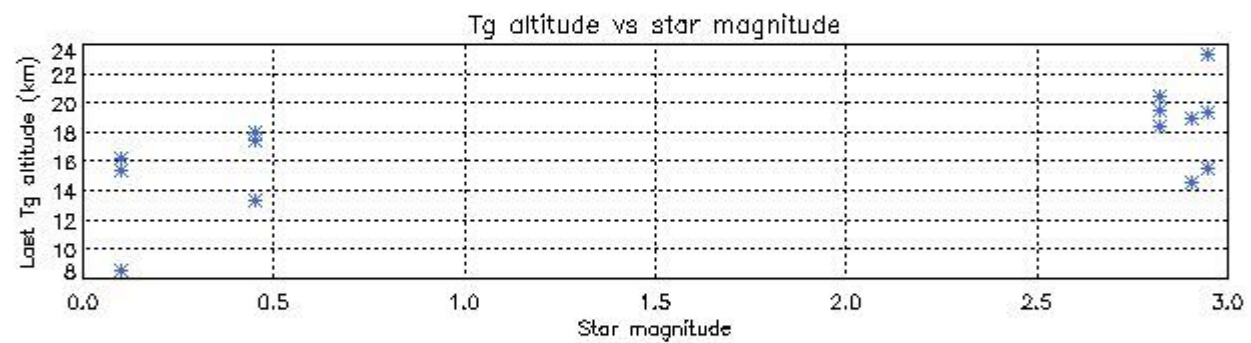
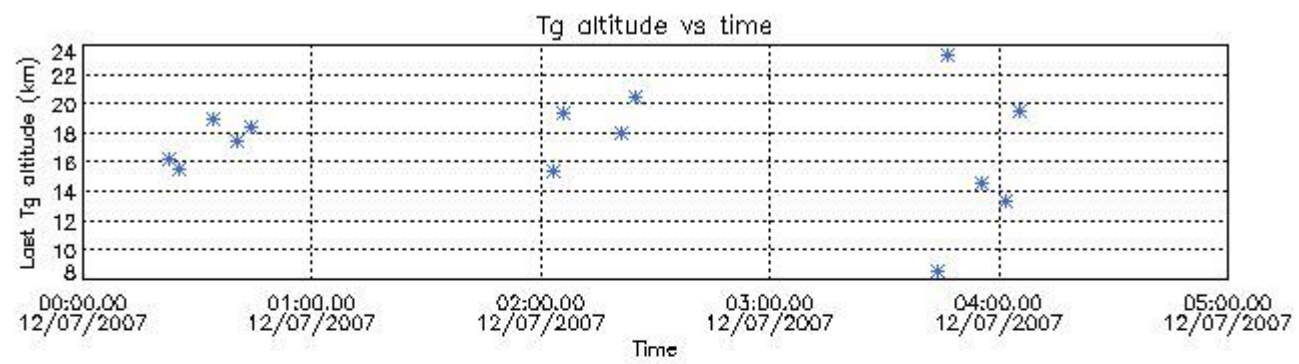
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.048	21.015	NaN
St. deviation:	3.5905	4.4054	NaN
Maximum:	23.271	30.084	NaN
Minimum:	8.5020	14.186	NaN
Number of data:	14.000	26.000	NaN

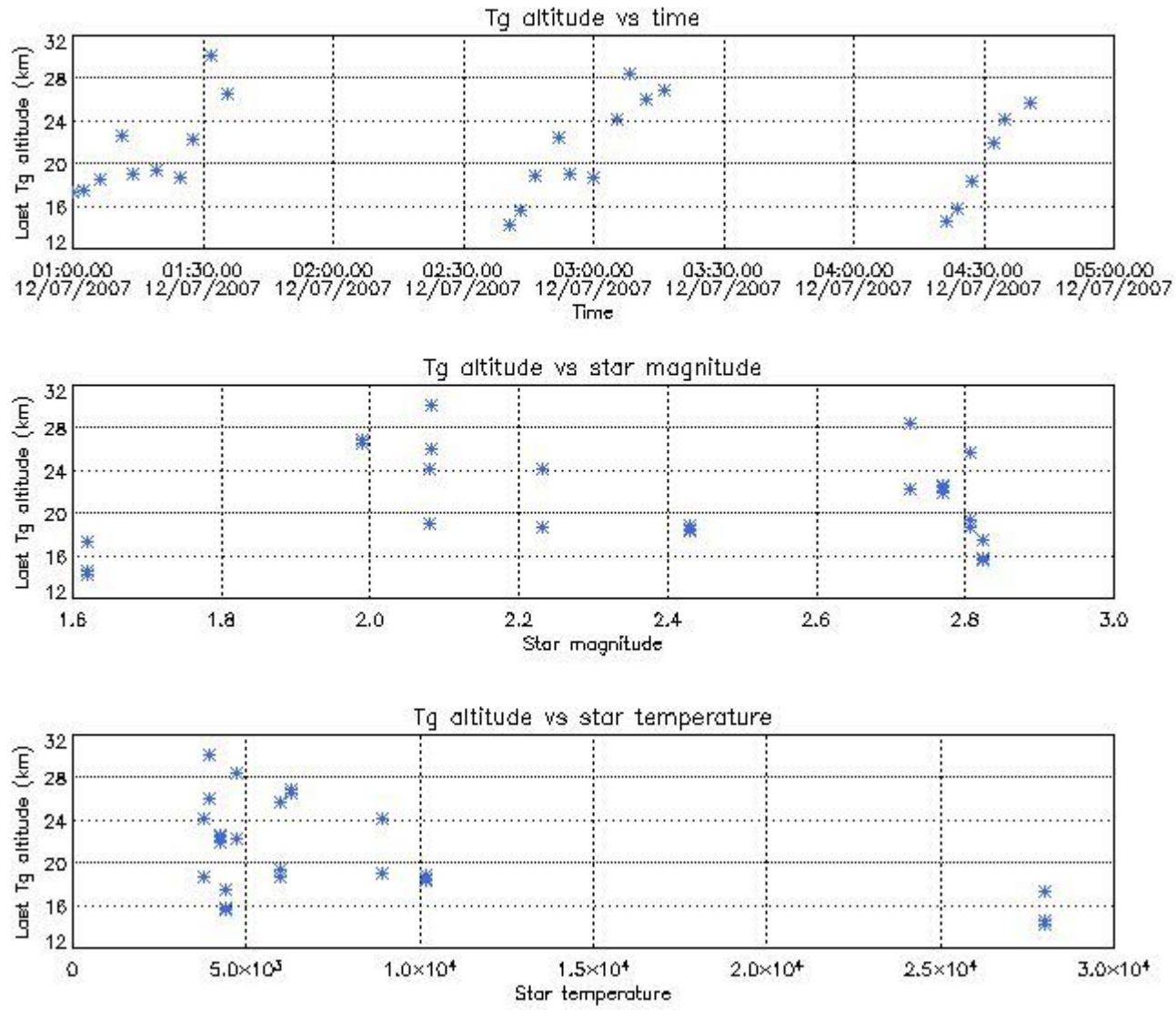
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

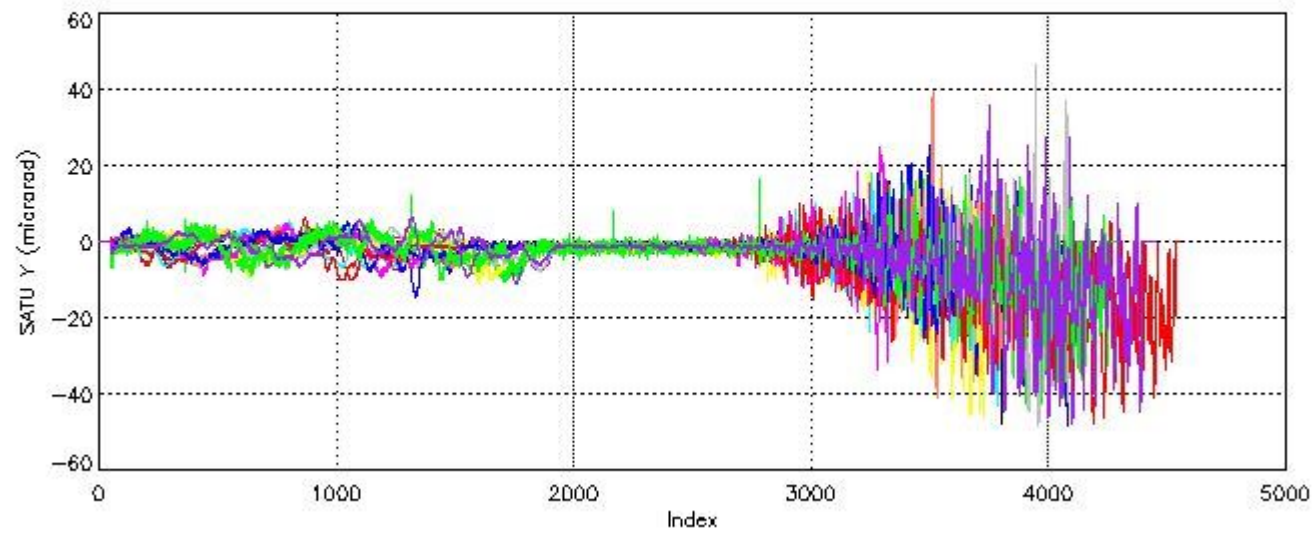
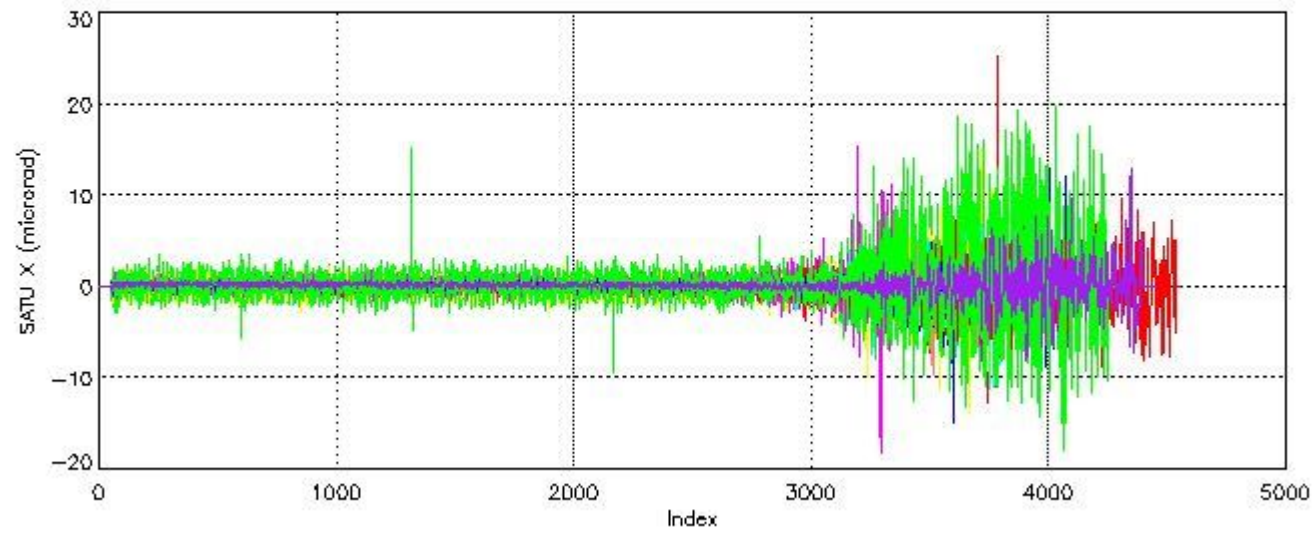


7. Star Acquisition and Tracking Unit (SATU)

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:	0.017848	-1.0231	0.018939	-1.1578
St. deviation:	0.47599	2.2639	0.65900	2.5112
Maximum:	3.4000	5.9000	4.7000	5.7000
Minimum:	-5.8000	-9.3000	-4.4000	-9.7000

Number of data:	12800.	12800.	21900.	21900.
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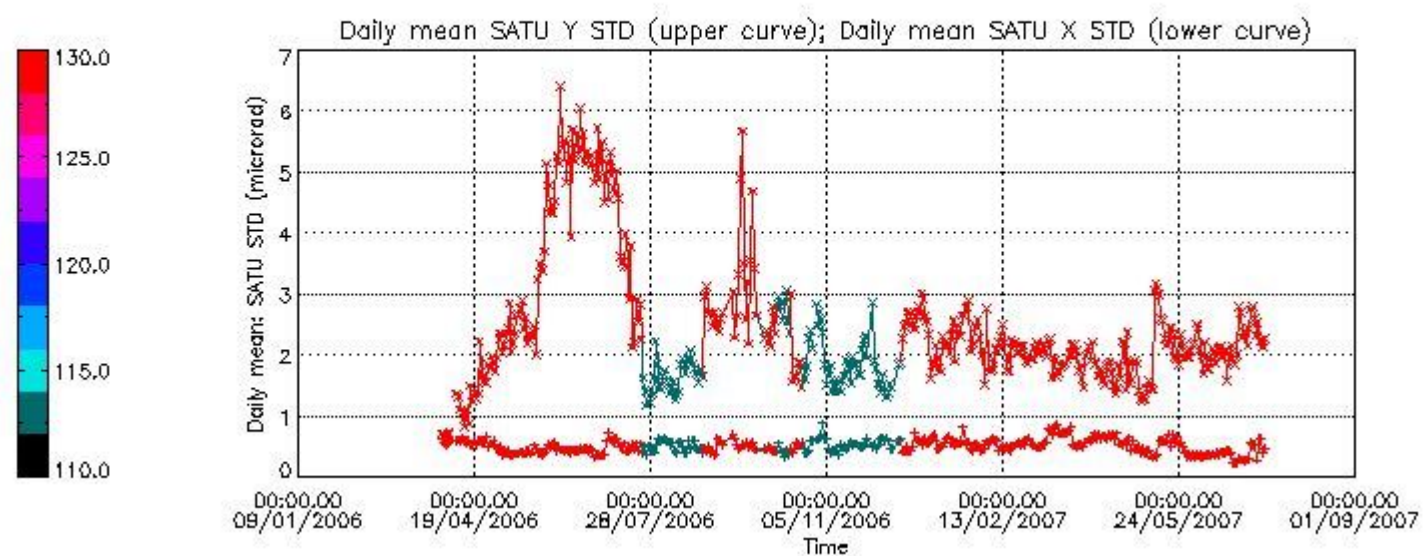
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

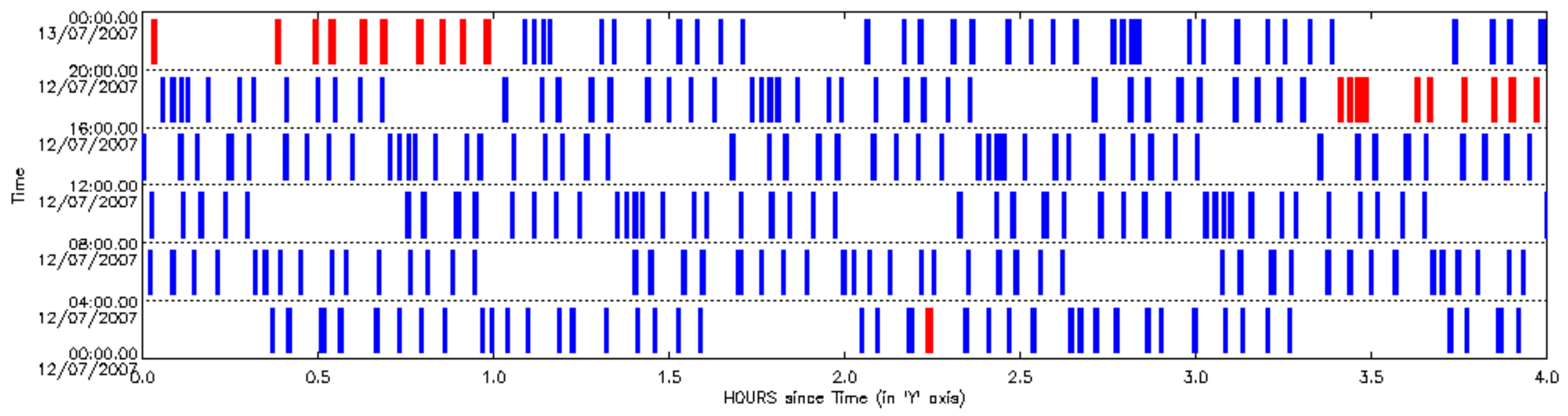
Lower curve: STD of SATU X axis

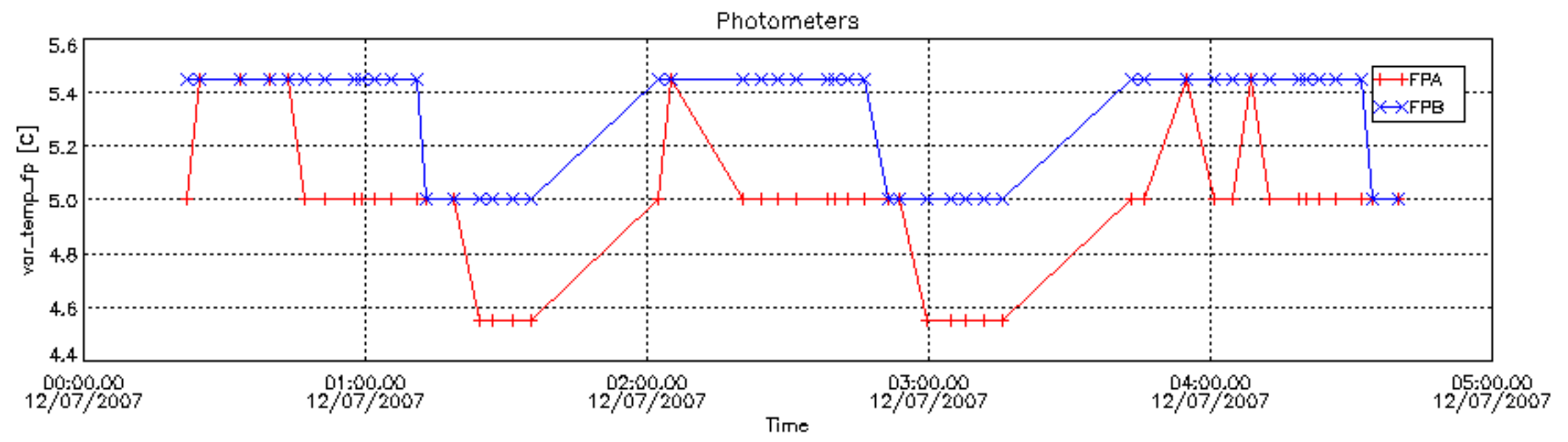
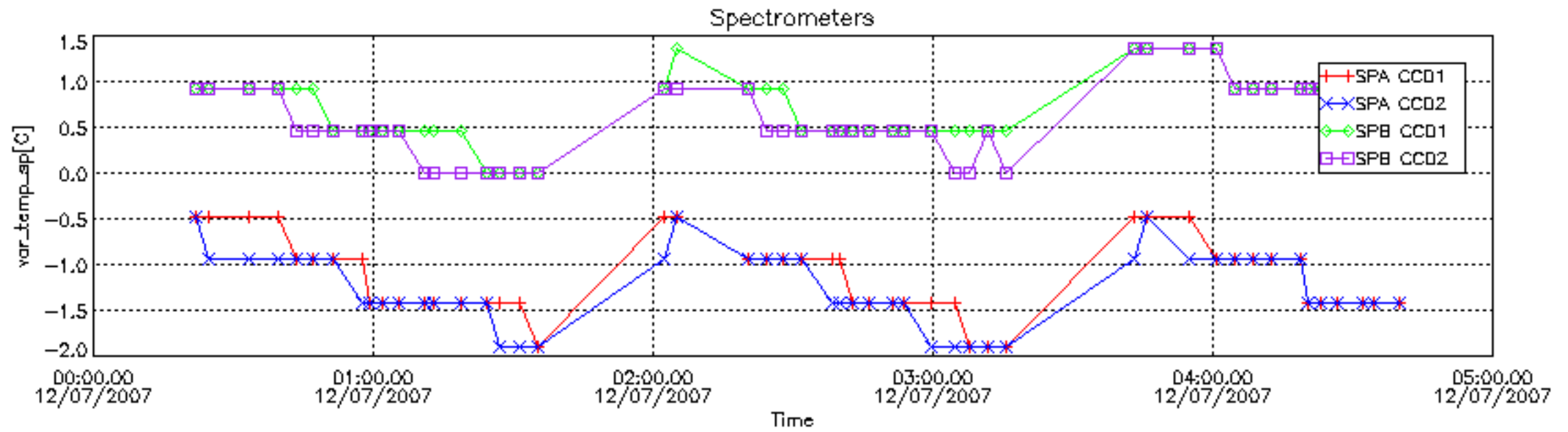


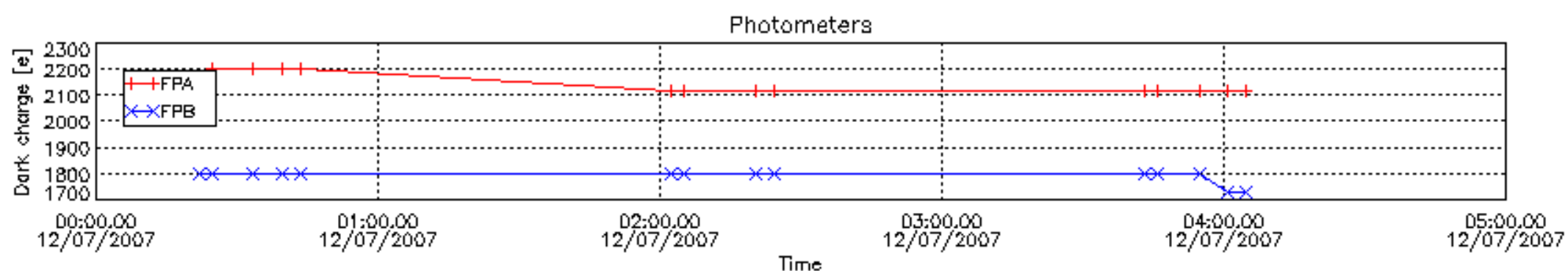
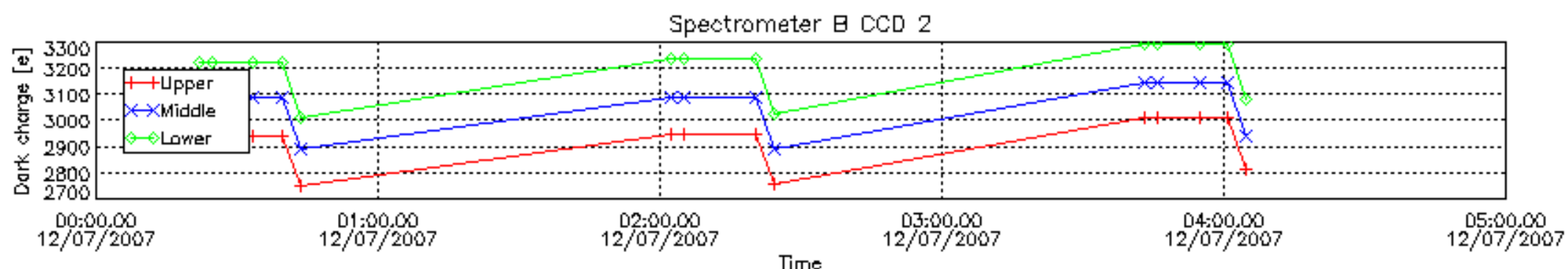
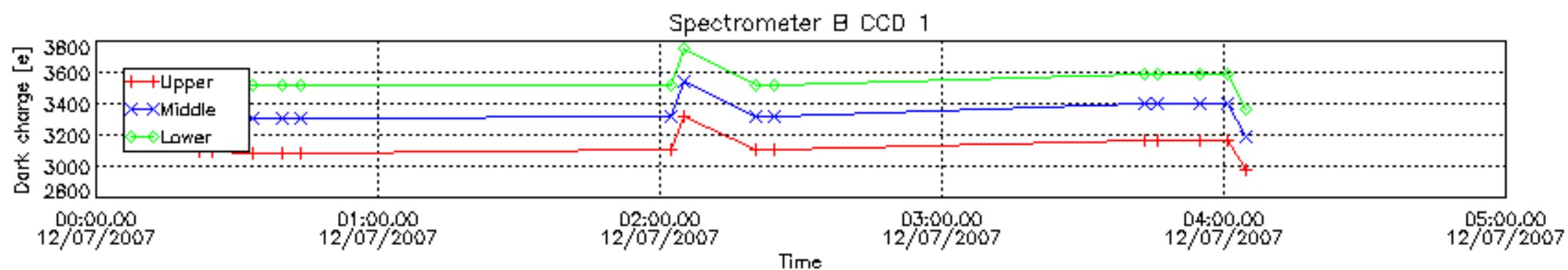
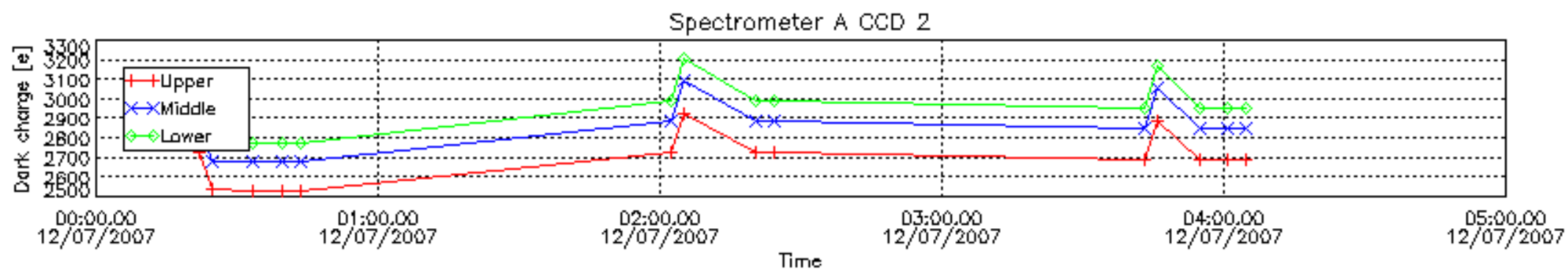
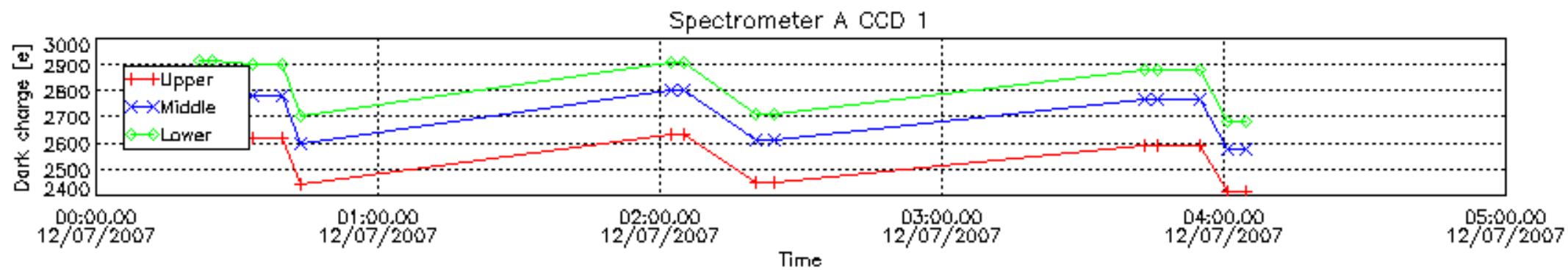
8. Auxiliary Data Files used for the production reported in section 2.4

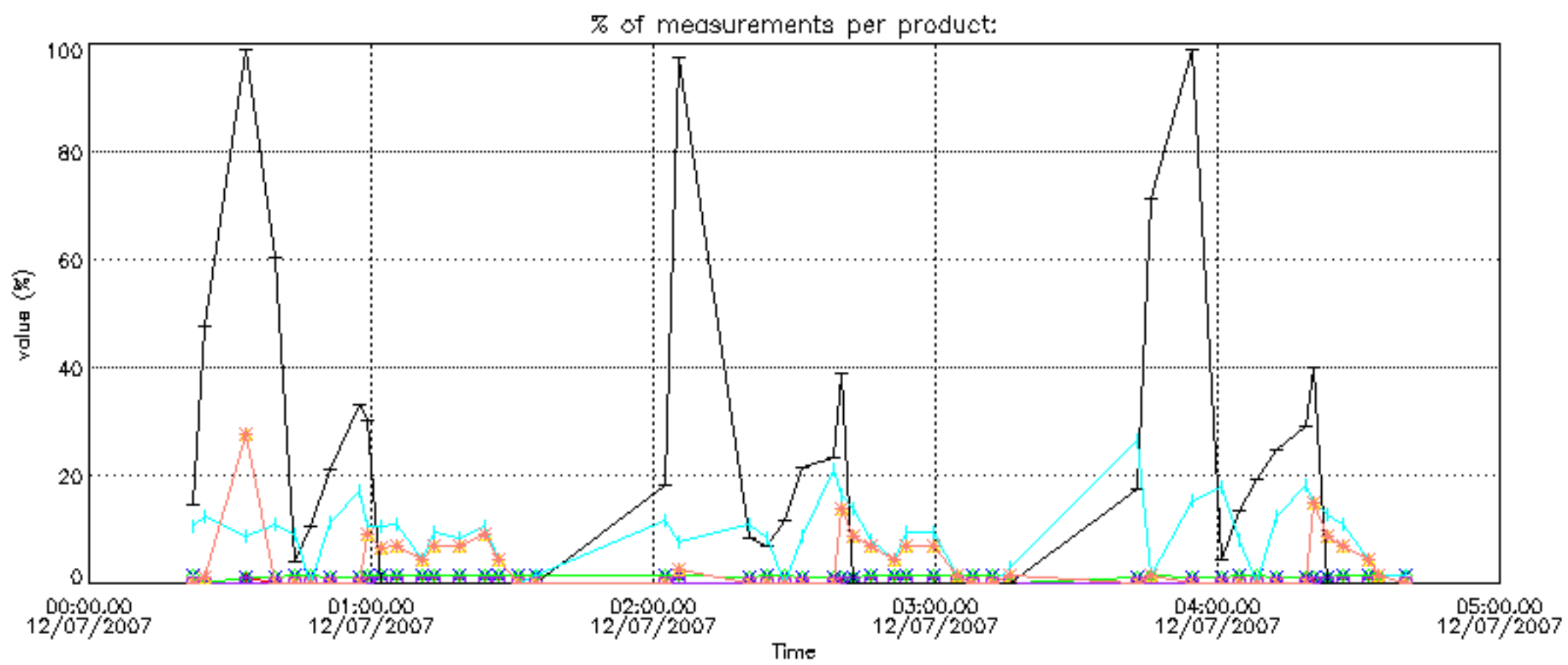
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-JUL-2007 00:21:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	12-JUL-2007 00:21:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-JUL-2007 00:21:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-JUL-2007 00:21:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-JUL-2007 00:21:52
ECMWF_FILE	AUX_ECF_AXNECM20070711_061110_20070711_210000_20070712_090000	1	12-JUL-2007 00:21:52
ECMWF_FILE	AUX_ECF_AXNECM20070711_181112_20070712_030000_20070712_150000	36	12-JUL-2007 03:43:04
OPTIONAL_ECMWF_FILE	MISSING	1	12-JUL-2007 00:21:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070711_205809_000060572059_00429_28038_3758.N1	1	12-JUL-2007 00:21:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070711_224425_000057382059_00430_28039_3759.N1	3	12-JUL-2007 00:33:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070712_002522_000054192059_00431_28040_3760.N1	19	12-JUL-2007 02:02:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070712_020100_000041442059_00432_28041_3761.N1	36	12-JUL-2007 03:43:04

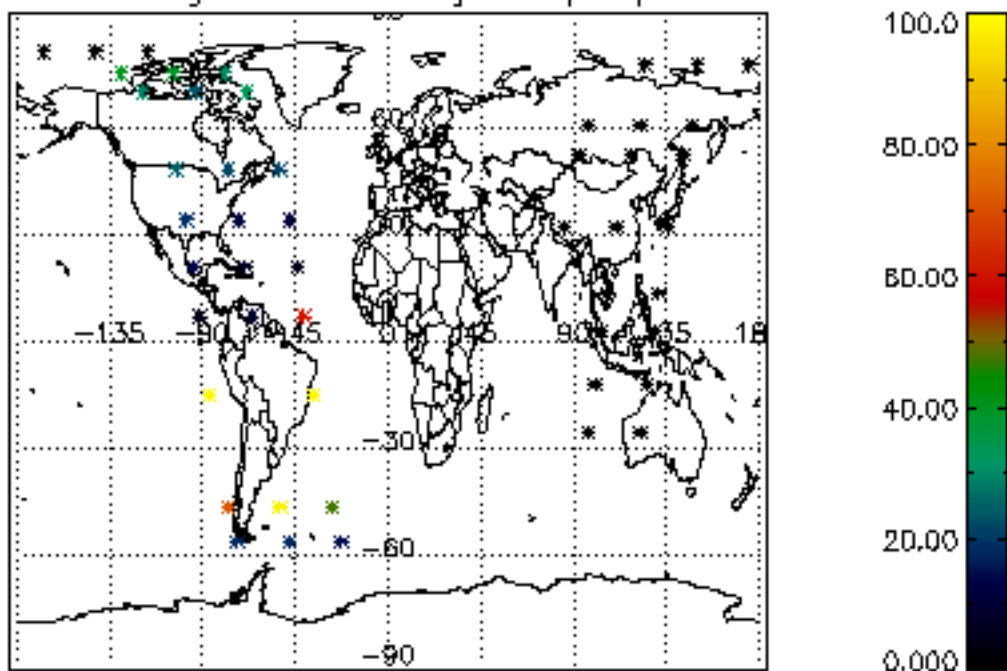




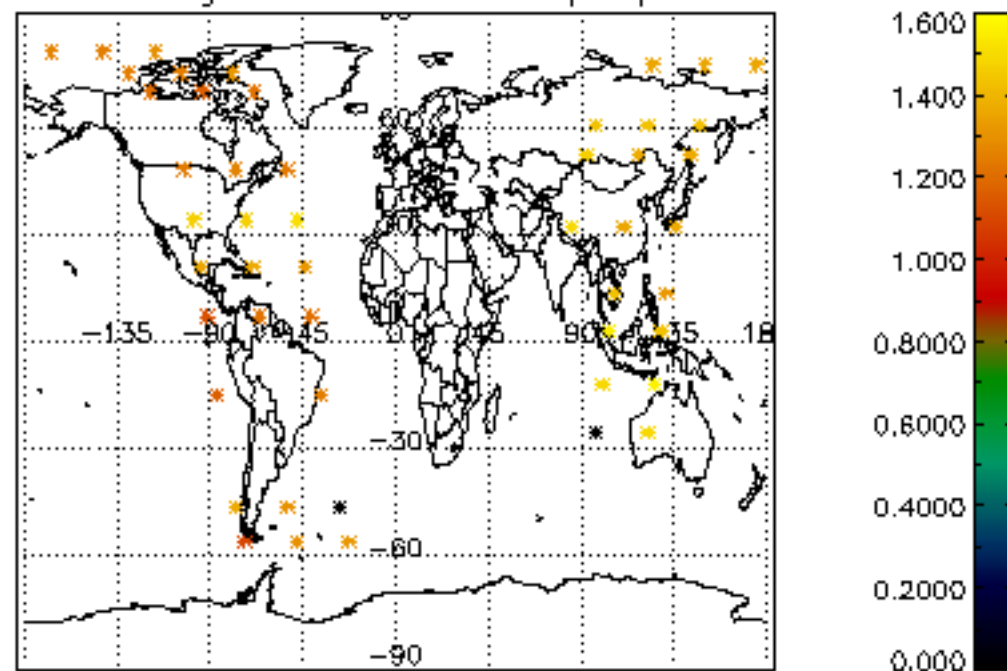




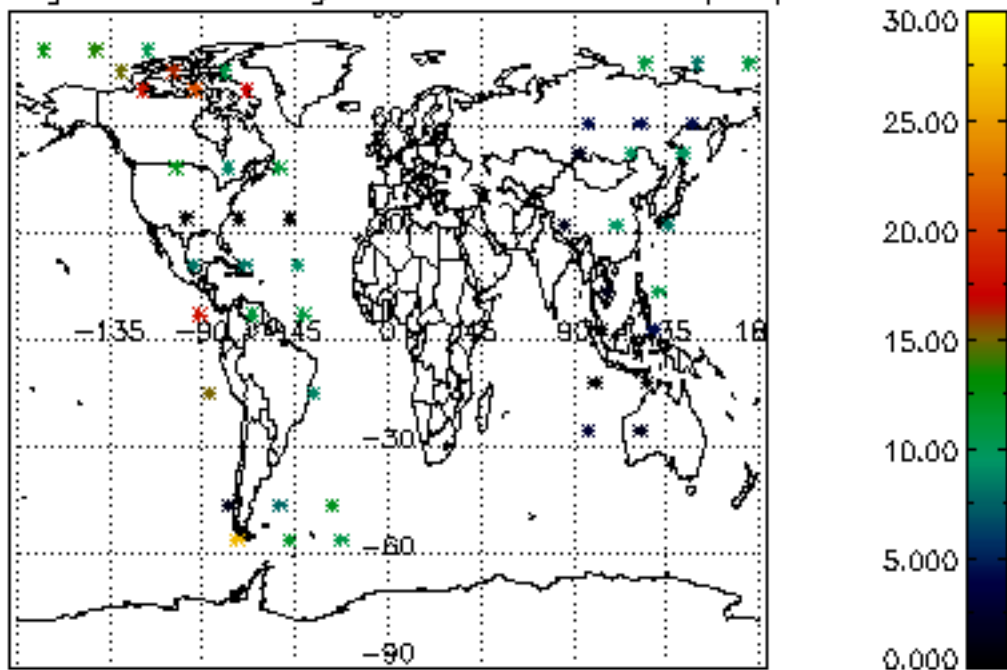
Percentage of cosmic ray hits per profile



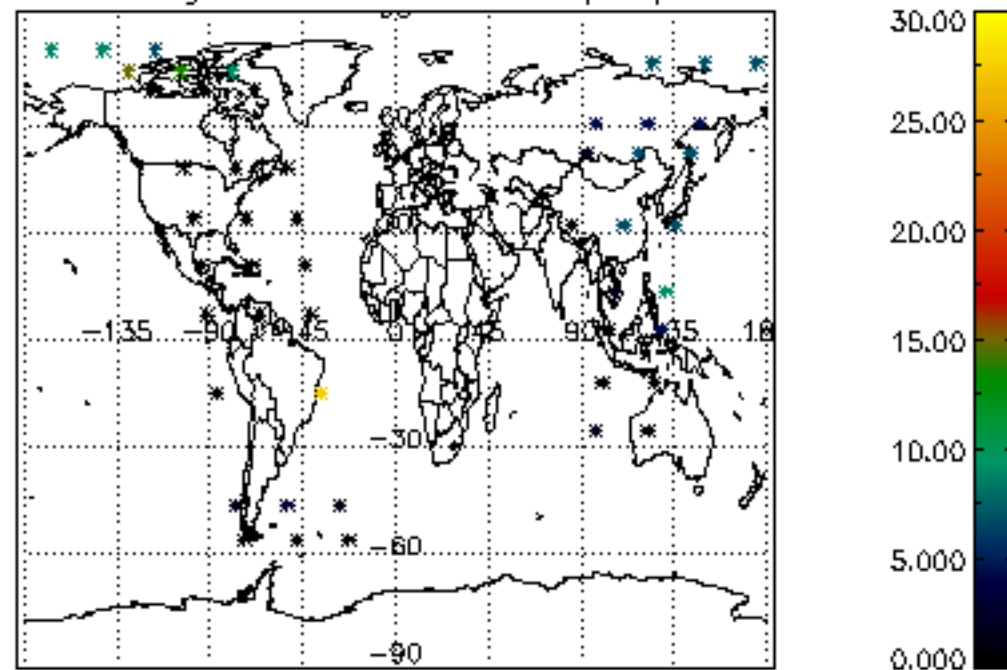
Percentage of datation errors per profile



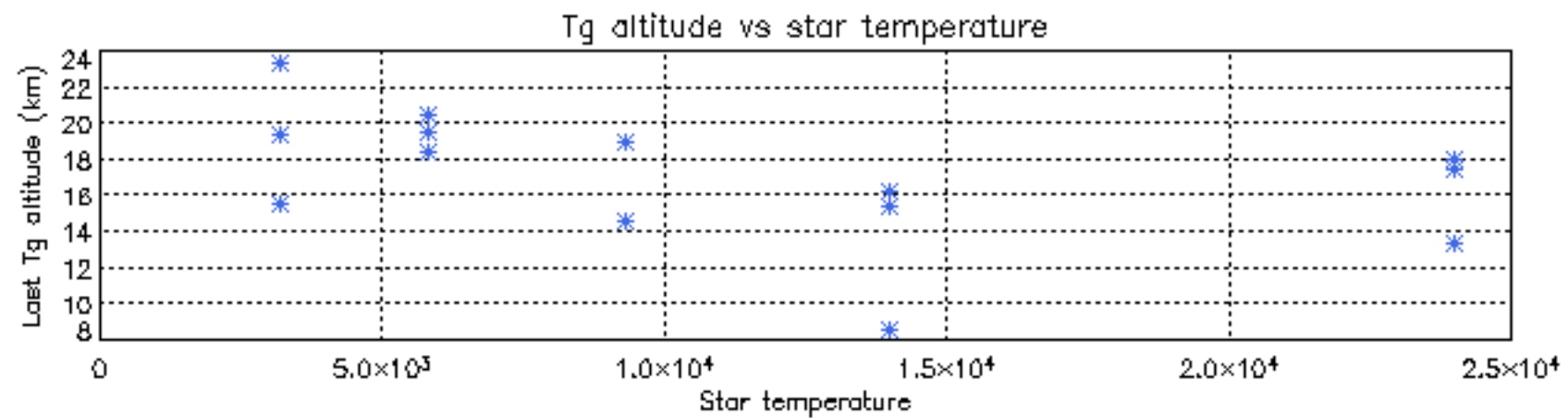
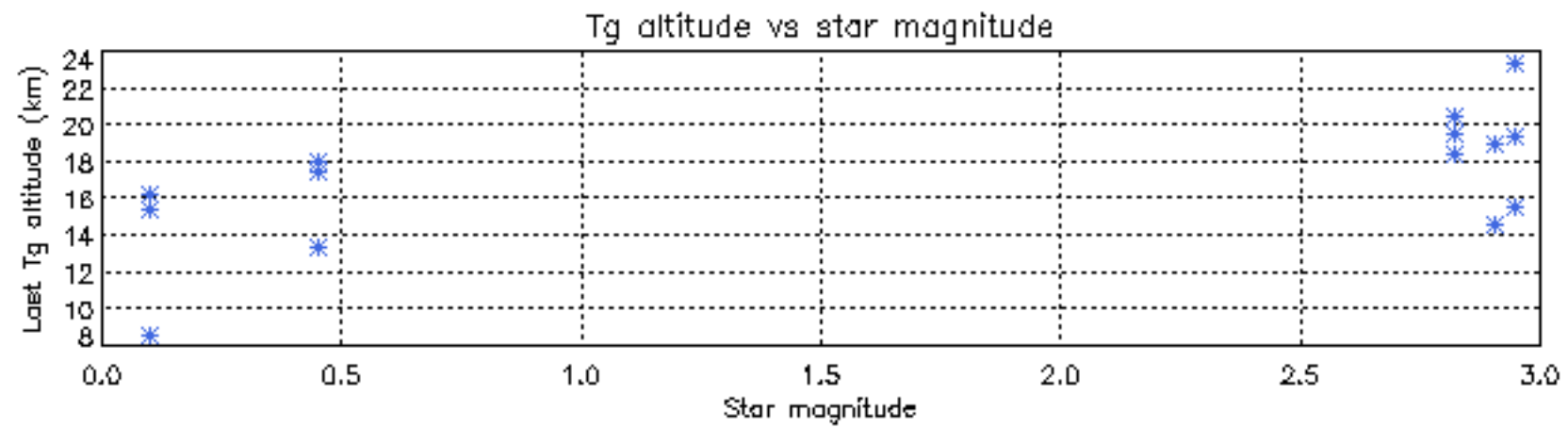
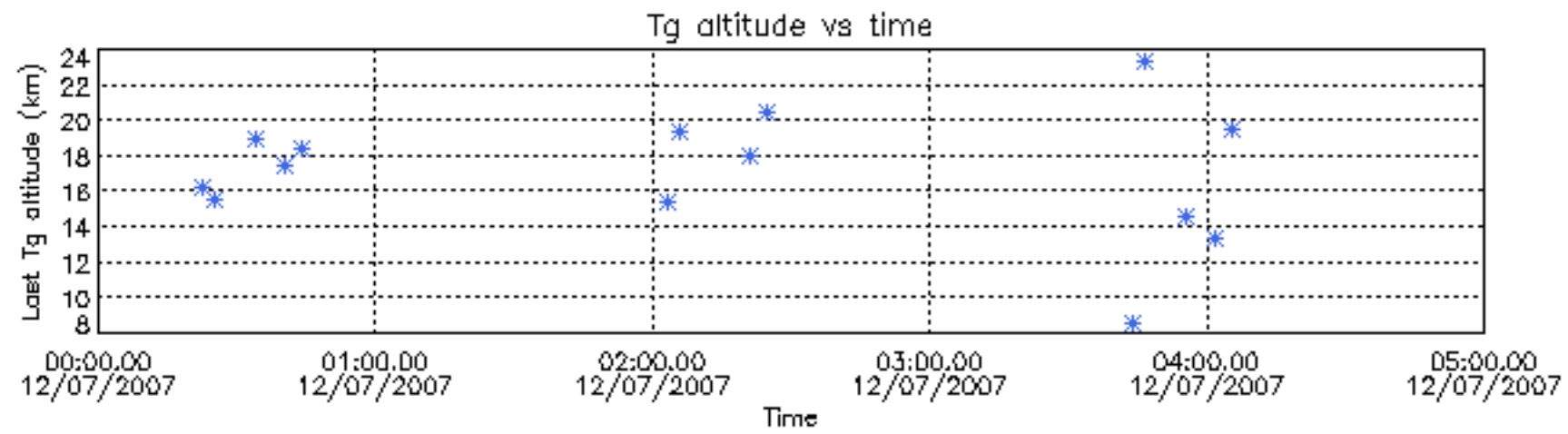
Percentage of star falling outside central band per profile



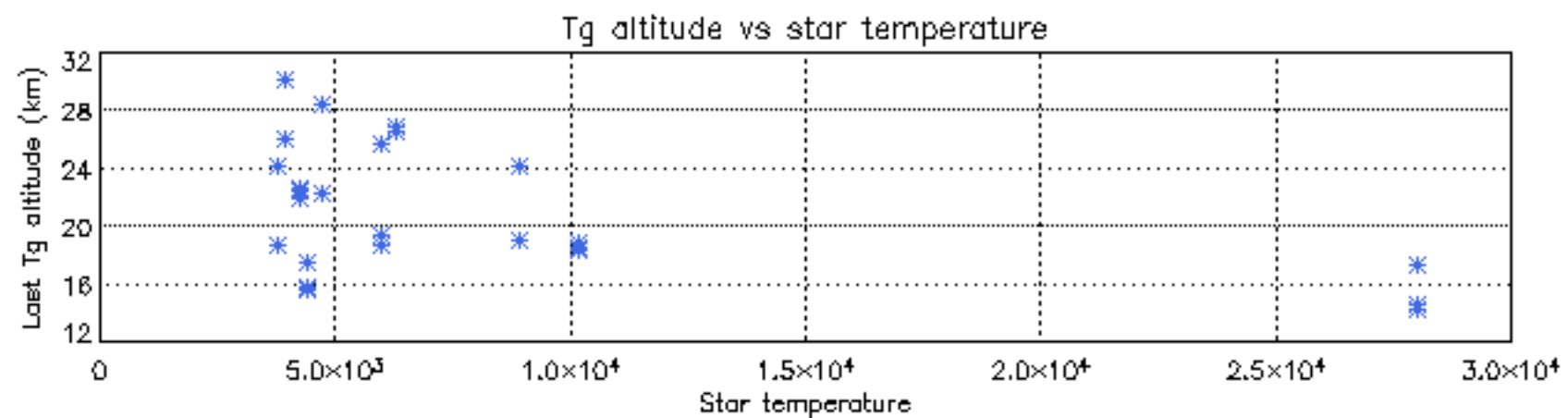
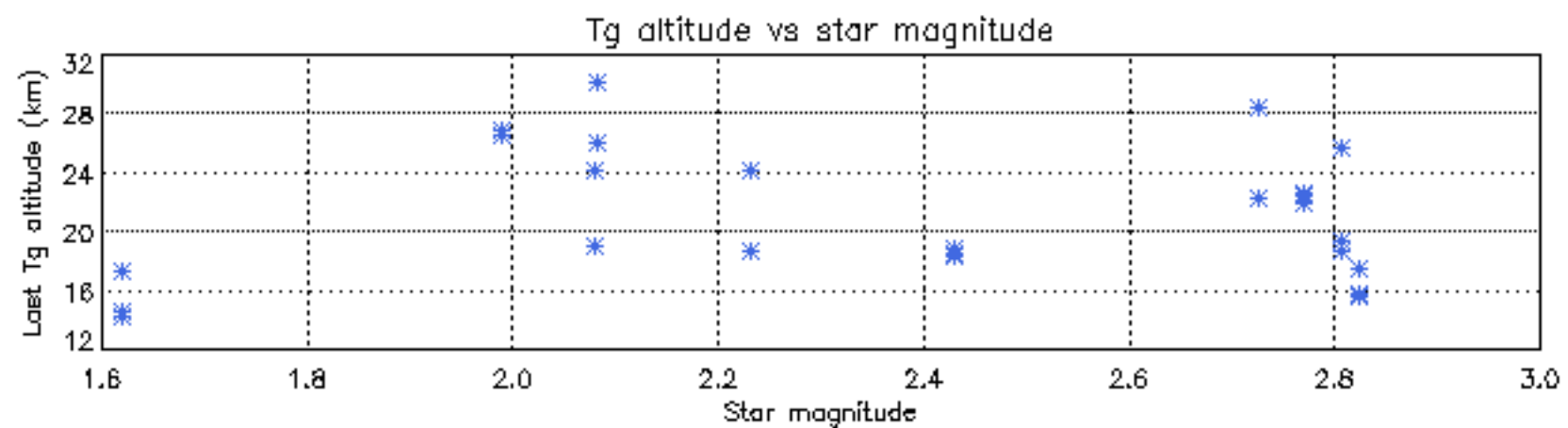
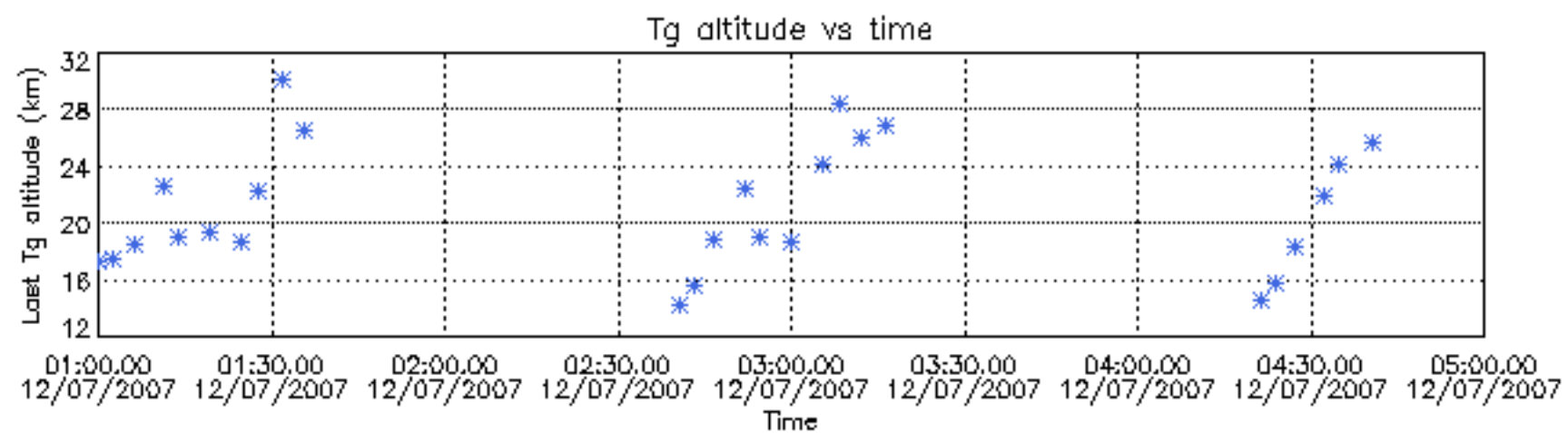
Percentage of saturation errors per profile

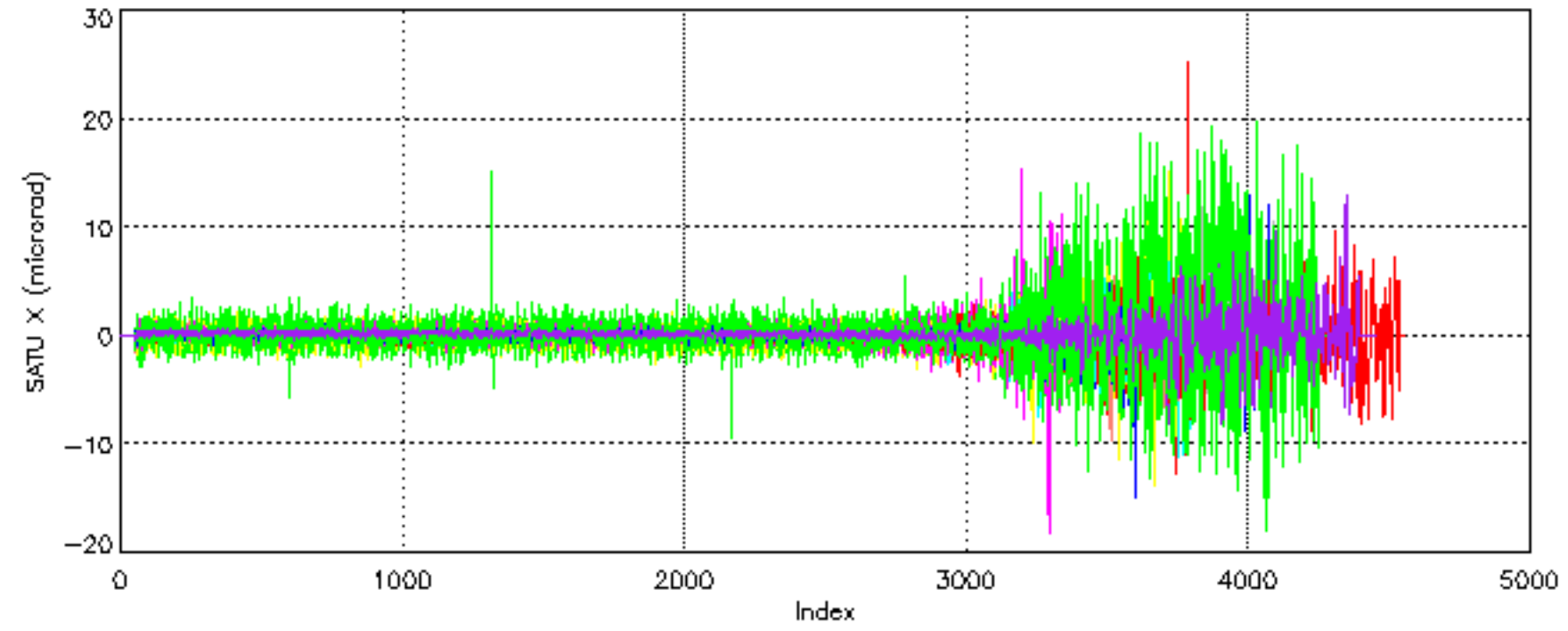


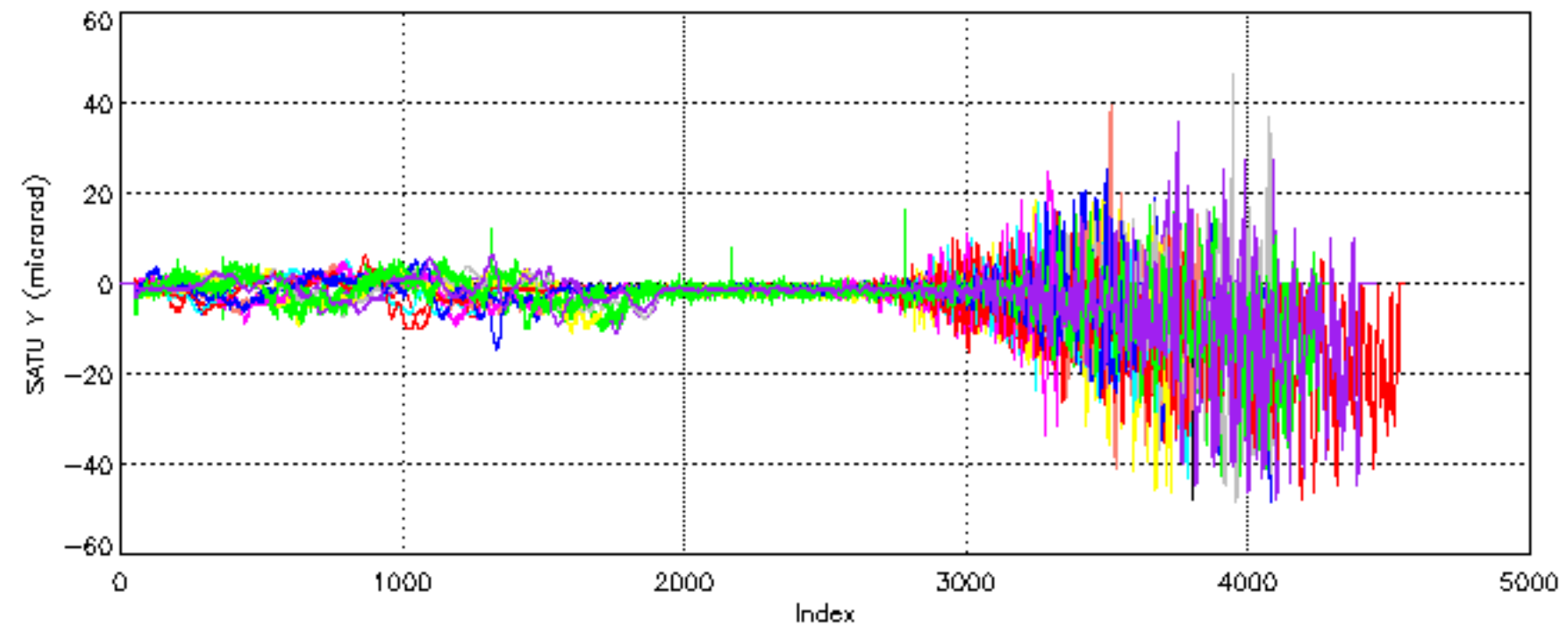
Tangent altitude at which the star is lost

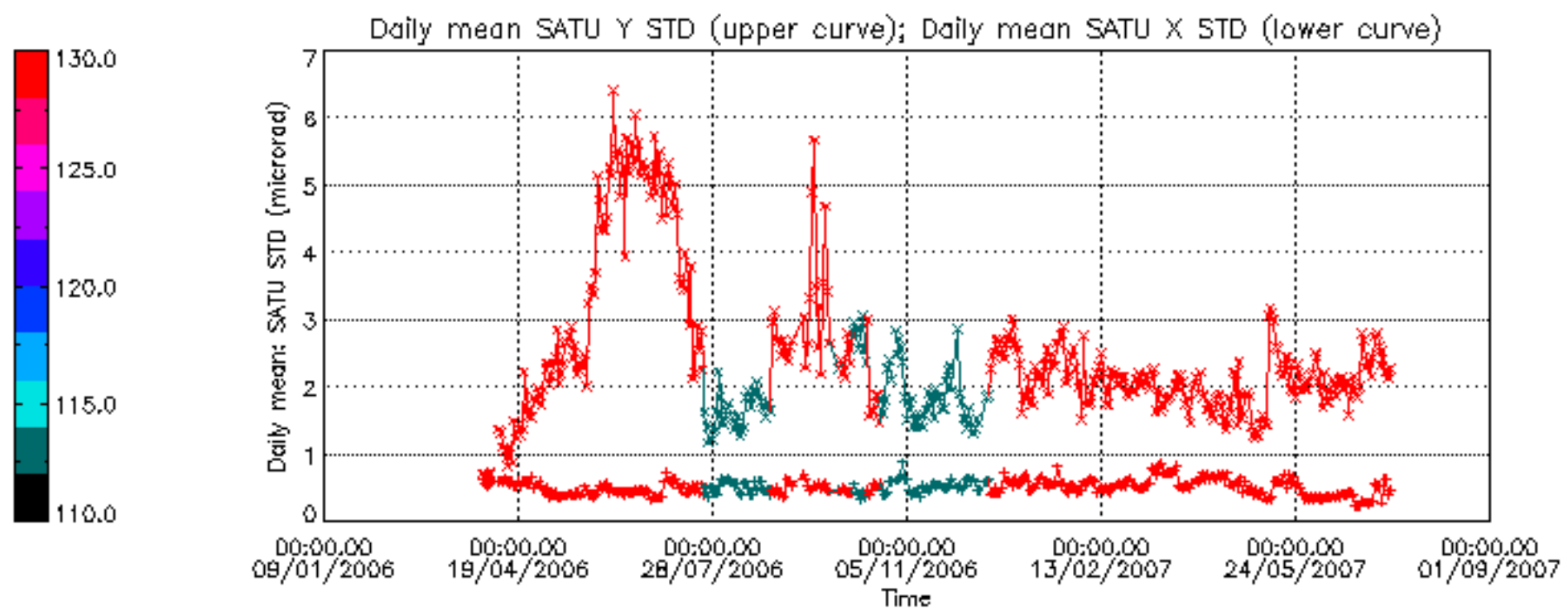


Tangent altitude at which the star is lost









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 2; -323.4; 01-JUL-2007 01:18:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27883
 3; 33.5; 01-JUL-2007 01:24:15; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;27884
 4; 480.3; 01-JUL-2007 01:31:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27884
 5; 742.9; 01-JUL-2007 01:36:04; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27884
 6; 1062.1; 01-JUL-2007 01:41:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27884
 7; 1170.1; 01-JUL-2007 01:43:11; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;27884
 8; 1269.9; 01-JUL-2007 01:44:51; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27884
 9; 1354.5; 01-JUL-2007 01:46:16; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;27884
 10; 1642.0; 01-JUL-2007 01:51:03; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;27884
 11; 1982.2; 01-JUL-2007 01:56:43; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;27884
 12; 2122.3; 01-JUL-2007 01:59:04; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;27884
 13; 2283.2; 01-JUL-2007 02:01:44; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;27884
 14; 2447.8; 01-JUL-2007 02:04:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;27884
 15; 2810.0; 01-JUL-2007 02:10:31; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27884
 16; 2952.4; 01-JUL-2007 02:12:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27884
 17; 3190.9; 01-JUL-2007 02:16:52; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27884
 18; 3445.4; 01-JUL-2007 02:21:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27884

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 2; -1869.8; 01-JUL-2007 02:33:07; Bright; 32.5; 175; 39Del Per ; 3.01; 19400;occ; 65; 0;27884
 3; -836.2; 01-JUL-2007 02:50:21; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27884
 4; -322.8; 01-JUL-2007 02:58:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27884
 5; 34.1; 01-JUL-2007 03:04:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;27885
 6; 481.1; 01-JUL-2007 03:12:18; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27885
 7; 743.5; 01-JUL-2007 03:16:41; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27885
 8; 1062.3; 01-JUL-2007 03:21:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27885
 9; 1170.4; 01-JUL-2007 03:23:47; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;27885
 10; 1270.3; 01-JUL-2007 03:25:27; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;27885
 11; 1354.8; 01-JUL-2007 03:26:52; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;27885
 12; 1642.3; 01-JUL-2007 03:31:39; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27885
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 14; 2122.4; 01-JUL-2007 03:39:40; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;27885
 15; 2283.4; 01-JUL-2007 03:42:20; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;27885
 16; 2448.0; 01-JUL-2007 03:45:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27885
 17; 2810.0; 01-JUL-2007 03:51:07; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27885
 18; 2952.5; 01-JUL-2007 03:53:30; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;27885
 19; 3191.1; 01-JUL-2007 03:57:28; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;27885
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 5; 34.6; 01-JUL-2007 04:45:28; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;27886
 6; 481.7; 01-JUL-2007 04:52:55; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27886
 7; 743.9; 01-JUL-2007 04:57:17; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27886
 8; 1062.5; 01-JUL-2007 05:02:36; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27886
 9; 1170.6; 01-JUL-2007 05:04:24; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27886
 10; 1270.5; 01-JUL-2007 05:06:04; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;27886
 11; 1355.1; 01-JUL-2007 05:07:28; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27886
 12; 1642.5; 01-JUL-2007 05:12:16; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27886
 13; 1982.2; 01-JUL-2007 05:17:55; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27886
 14; 2122.4; 01-JUL-2007 05:20:16; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;27886
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 17; 2809.8; 01-JUL-2007 05:31:43; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;27886
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 19; 3191.3; 01-JUL-2007 05:38:04; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27886
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 3; -835.7; 01-JUL-2007 06:11:33; Dark ; 34.5; 165; 34Gam Eri ; 2.95; 3200;occ; 69; 0;27886
 4; -321.6; 01-JUL-2007 06:20:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27886
 5; 35.1; 01-JUL-2007 06:26:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27887
 6; 482.3; 01-JUL-2007 06:33:31; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27887

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7; 744.5; 01-JUL-2007 06:37:54; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;27887
8; 1062.7; 01-JUL-2007 06:43:12; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27887
9; 1170.8; 01-JUL-2007 06:45:00; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27887
10; 1270.7; 01-JUL-2007 06:46:40; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;27887
11; 1355.3; 01-JUL-2007 06:48:04; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;27887
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16; 2448.2; 01-JUL-2007 07:06:17; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;27887
17; 2809.7; 01-JUL-2007 07:12:19; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27887
18; 2952.5; 01-JUL-2007 07:14:42; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27887
19; 3191.4; 01-JUL-2007 07:18:40; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27887
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3; 1272.3; 01-JUL-2007 20:11:29; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;27895
4; 1357.1; 01-JUL-2007 20:12:54; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27895
5; 1643.8; 01-JUL-2007 20:17:40; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27895
6; 1982.2; 01-JUL-2007 20:23:19; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27895
7; 2121.8; 01-JUL-2007 20:25:38; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27895
8; 2284.8; 01-JUL-2007 20:28:21; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;27895
9; 2448.5; 01-JUL-2007 20:31:05; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;27895
10; 2808.4; 01-JUL-2007 20:37:05; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27895
11; 2952.8; 01-JUL-2007 20:39:29; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27895
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13; 3445.4; 01-JUL-2007 20:47:42; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27895
14; 4131.0; 01-JUL-2007 20:59:08; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;27895
15; 5202.7; 01-JUL-2007 21:16:59; Dark ; 38.0; 165; 34Gam Eri ; 2.95; 3200;occ; 76; 0;27895
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6; 1064.5; 01-JUL-2007 21:48:37; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;27896
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12; 2121.8; 01-JUL-2007 22:06:14; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;27896
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14; 2448.7; 01-JUL-2007 22:11:41; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;27896
15; 2808.2; 01-JUL-2007 22:17:41; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27896
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16; 6721.7; 27-JUL-2007 11:21:28; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;28261
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