

GOMOS Daily Report 16-OCT-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	18OCT2007 05:33:31
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (16OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

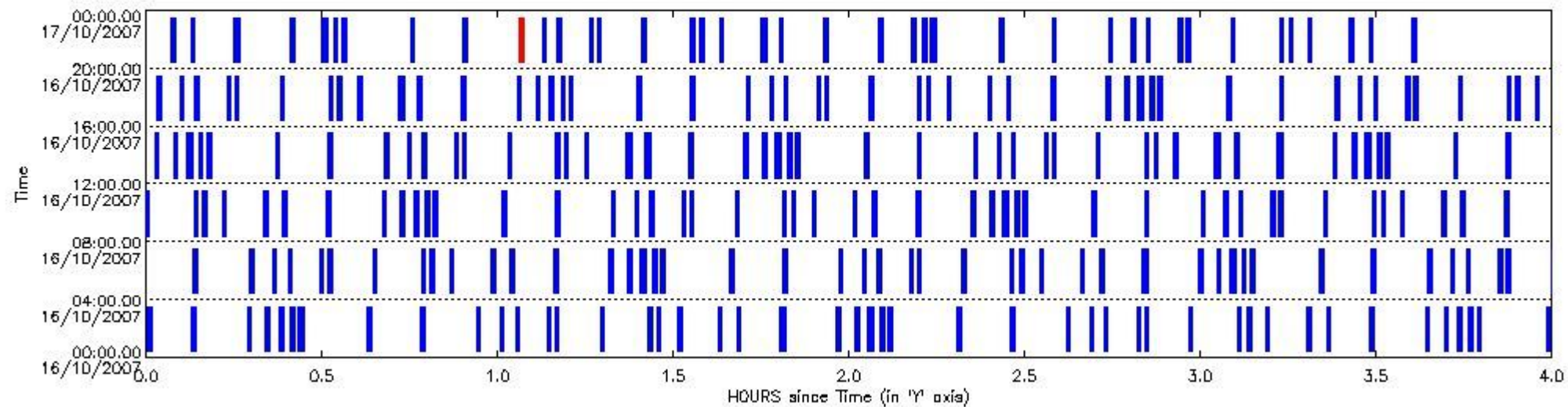
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

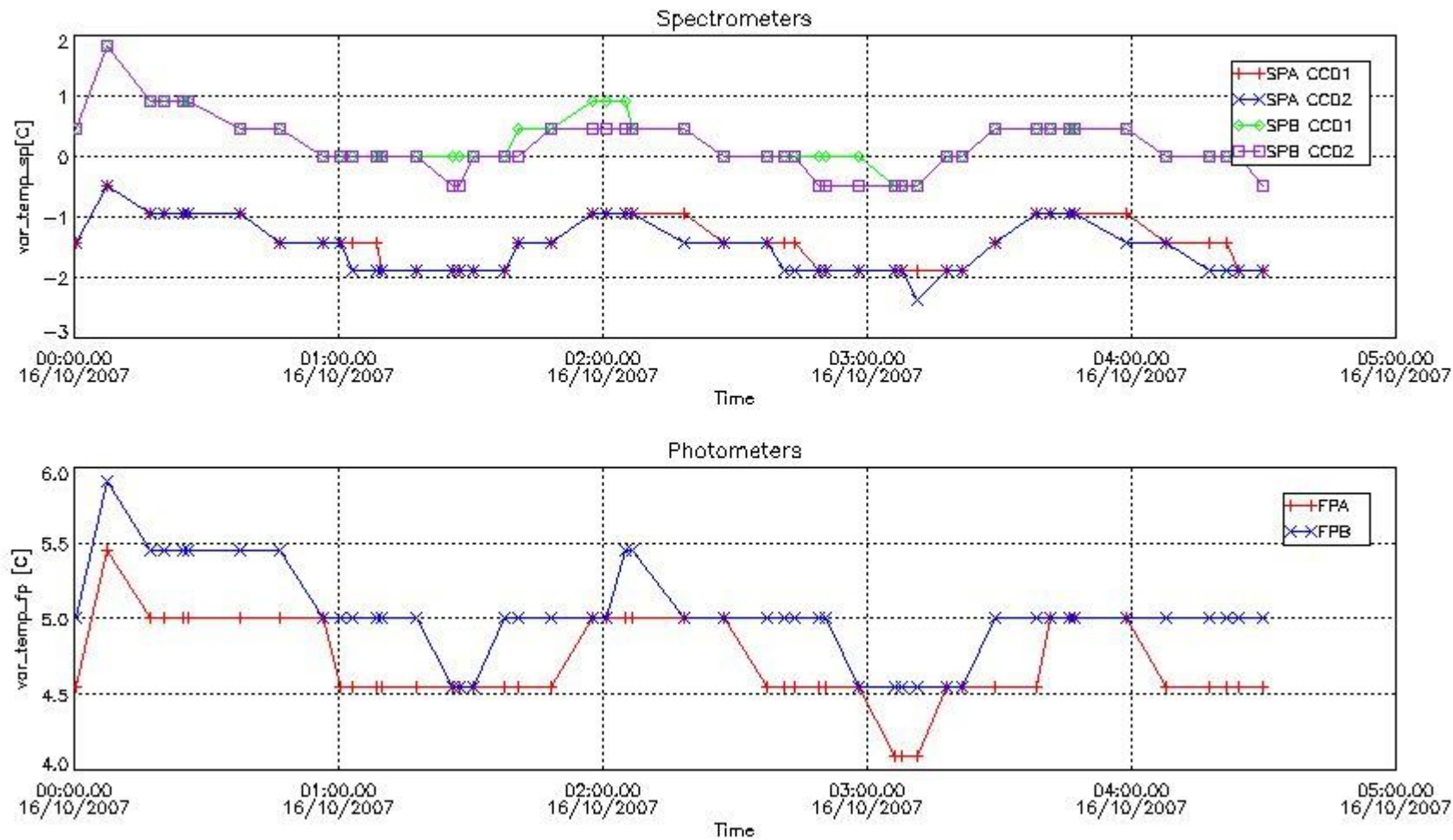
UTC start time	Star name	Star ID	Orbit
16-OCT-2007 21:03:37	88GamPeg	140	29427

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_1PNPDE20071016_000016_000000412062_00302_29414_6364.N1	16-OCT-2007 00:00:16	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	29414	No
2	GOM_TRA_1PNPDE20071016_000738_000000542062_00302_29414_6485.N1	16-OCT-2007 00:07:38	Dark	54.000	48	30Alp Hya	1.9770	4100.0	108	29414	Yes
3	GOM_TRA_1PNPDE20071016_001711_000000452062_00302_29414_6486.N1	16-OCT-2007 00:17:11	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29414	No
4	GOM_TRA_1PNPDE20071016_002021_000000432062_00303_29415_6487.N1	16-OCT-2007 00:20:21	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29415	No
5	GOM_TRA_1PNPDE20071016_002437_000000442062_00303_29415_6488.N1	16-OCT-2007 00:24:37	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29415	No
6	GOM_TRA_1PNPDE20071016_002558_000000552062_00303_29415_6489.N1	16-OCT-2007 00:25:58	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	29415	No
7	GOM_TRA_1PNPDE20071016_003746_000000452062_00303_29415_6490.N1	16-OCT-2007 00:37:46	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	29415	No
8	GOM_TRA_1PNPDE20071016_004649_000000422062_00303_29415_6491.N1	16-OCT-2007 00:46:49	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	29415	No
9	GOM_TRA_1PNPDE20071016_005629_000000372062_00303_29415_6492.N1	16-OCT-2007 00:56:29	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	29415	No
10	GOM_TRA_1PNPDE20071016_010026_000000382062_00303_29415_6493.N1	16-OCT-2007 01:00:26	Bright	37.500	58	21Alp And	2.0730	11000.	75	29415	No

11	GOM_TRA_1PNPDE20071016_010259_000000432062_00303_29415_6494.N1	16-OCT-2007 01:02:59	Bright	43.000	53	43Bet And	2.0480	3300.0	86	29415	No
12	GOM_TRA_1PNPDE20071016_010830_000000392062_00303_29415_6495.N1	16-OCT-2007 01:08:30	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	29415	No
13	GOM_TRA_1PNPDE20071016_010951_000000382062_00303_29415_6496.N1	16-OCT-2007 01:09:51	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	29415	No
14	GOM_TRA_1PNPDE20071016_011729_000000362062_00303_29415_6497.N1	16-OCT-2007 01:17:29	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29415	No
15	GOM_TRA_1PNPDE20071016_012542_000000382062_00303_29415_6498.N1	16-OCT-2007 01:25:42	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29415	No
16	GOM_TRA_1PNPDE20071016_012716_000000332062_00303_29415_6499.N1	16-OCT-2007 01:27:16	Bright	33.000	82	48Bet UMa	2.3650	10600.	66	29415	No
17	GOM_TRA_1PNPDE20071016_013039_000000522062_00303_29415_6500.N1	16-OCT-2007 01:30:39	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29415	No
18	GOM_TRA_1PNPDE20071016_013736_000000432062_00303_29415_6501.N1	16-OCT-2007 01:37:36	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	29415	No
19	GOM_TRA_1PNPDE20071016_014052_000000412062_00303_29415_6502.N1	16-OCT-2007 01:40:52	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	29415	No
20	GOM_TRA_1PNPDE20071016_014814_000000522062_00303_29415_6647.N1	16-OCT-2007 01:48:14	Dark	51.500	48	30Alp Hya	1.9770	4100.0	103	29415	No
21	GOM_TRA_1PNPDE20071016_015747_000000442062_00303_29415_6648.N1	16-OCT-2007 01:57:47	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	29415	No
22	GOM_TRA_1PNPDE20071016_020057_000000432062_00304_29416_6649.N1	16-OCT-2007 02:00:57	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29416	No
23	GOM_TRA_1PNPDE20071016_020514_000000452062_00304_29416_6650.N1	16-OCT-2007 02:05:14	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	29416	No
24	GOM_TRA_1PNPDE20071016_020634_000000472062_00304_29416_6651.N1	16-OCT-2007 02:06:34	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	29416	No
25	GOM_TRA_1PNPDE20071016_021822_000000442062_00304_29416_6652.N1	16-OCT-2007 02:18:22	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	29416	No
26	GOM_TRA_1PNPDE20071016_022726_000000452062_00304_29416_6653.N1	16-OCT-2007 02:27:26	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	29416	No
27	GOM_TRA_1PNPDE20071016_023705_000000362062_00304_29416_6654.N1	16-OCT-2007 02:37:05	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	29416	No
28	GOM_TRA_1PNPDE20071016_024102_000000362062_00304_29416_6655.N1	16-OCT-2007 02:41:02	Bright	36.000	58	21Alp And	2.0730	11000.	72	29416	No
29	GOM_TRA_1PNPDE20071016_024334_000000402062_00304_29416_6656.N1	16-OCT-2007 02:43:34	Bright	40.000	53	43Bet And	2.0480	3300.0	80	29416	No
30	GOM_TRA_1PNPDE20071016_024905_000000362062_00304_29416_6657.N1	16-OCT-2007 02:49:05	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29416	No
31	GOM_TRA_1PNPDE20071016_025027_000000362062_00304_29416_6658.N1	16-OCT-2007 02:50:27	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29416	No
32	GOM_TRA_1PNPDE20071016_025805_000000352062_00304_29416_6659.N1	16-OCT-2007 02:58:05	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29416	No
33	GOM_TRA_1PNPDE20071016_030618_000000382062_00304_29416_6837.N1	16-OCT-2007 03:06:18	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	29416	No
34	GOM_TRA_1PNPDE20071016_030752_000000532062_00304_29416_6838.N1	16-OCT-2007 03:07:52	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	29416	No
35	GOM_TRA_1PNPDE20071016_031115_000000352062_00304_29416_6839.N1	16-OCT-2007 03:11:15	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	29416	No
36	GOM_TRA_1PNPDE20071016_031812_000000432062_00304_29416_6840.N1	16-OCT-2007 03:18:12	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	29416	No
37	GOM_TRA_1PNPDE20071016_032128_000000412062_00304_29416_6841.N1	16-OCT-2007 03:21:28	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	29416	No
38	GOM_TRA_1PNPDE20071016_032851_000000512062_00304_29416_6842.N1	16-OCT-2007 03:28:51	Dark	50.500	48	30Alp Hya	1.9770	4100.0	101	29416	No
39	GOM_TRA_1PNPDE20071016_033824_000000412062_00304_29416_6843.N1	16-OCT-2007 03:38:24	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	29416	No
40	GOM_TRA_1PNPDE20071016_034134_000000442062_00305_29417_6844.N1	16-OCT-2007 03:41:34	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	29417	No
41	GOM_TRA_1PNPDE20071016_034551_000000442062_00305_29417_6845.N1	16-OCT-2007 03:45:51	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29417	No
42	GOM_TRA_1PNPDE20071016_034711_000000472062_00305_29417_6846.N1	16-OCT-2007 03:47:11	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	29417	No
43	GOM_TRA_1PNPDE20071016_035859_000000452062_00305_29417_6847.N1	16-OCT-2007 03:58:59	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	29417	No
44	GOM_TRA_1PNPDE20071016_040802_000000422062_00305_29417_6848.N1	16-OCT-2007 04:08:02	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	29417	No
45	GOM_TRA_1PNPDE20071016_041741_000000372062_00305_29417_6849.N1	16-OCT-2007 04:17:41	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	29417	No
46	GOM_TRA_1PNPDE20071016_042138_000000362062_00305_29417_6850.N1	16-OCT-2007 04:21:38	Bright	36.000	58	21Alp And	2.0730	11000.	72	29417	No
47	GOM_TRA_1PNPDE20071016_042410_000000432062_00305_29417_6851.N1	16-OCT-2007 04:24:10	Bright	43.000	53	43Bet And	2.0480	3300.0	86	29417	No
48	GOM_TRA_1PNPDE20071016_042941_000000362062_00305_29417_6852.N1	16-OCT-2007 04:29:41	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29417	No

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



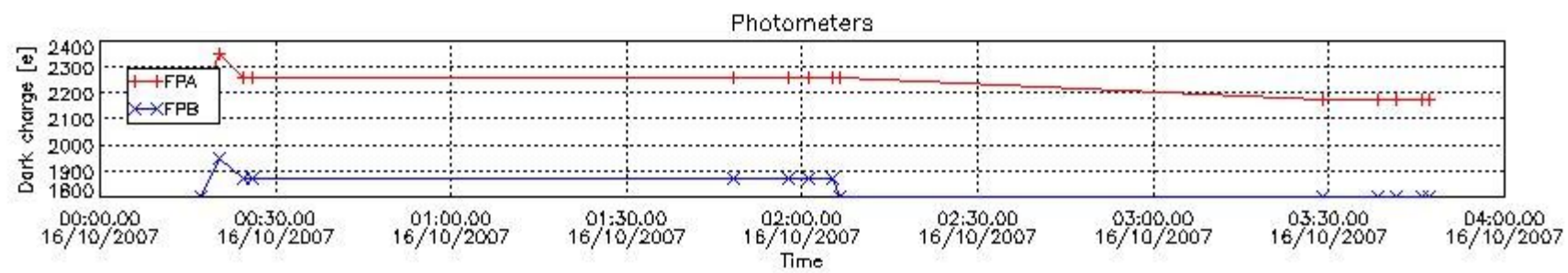
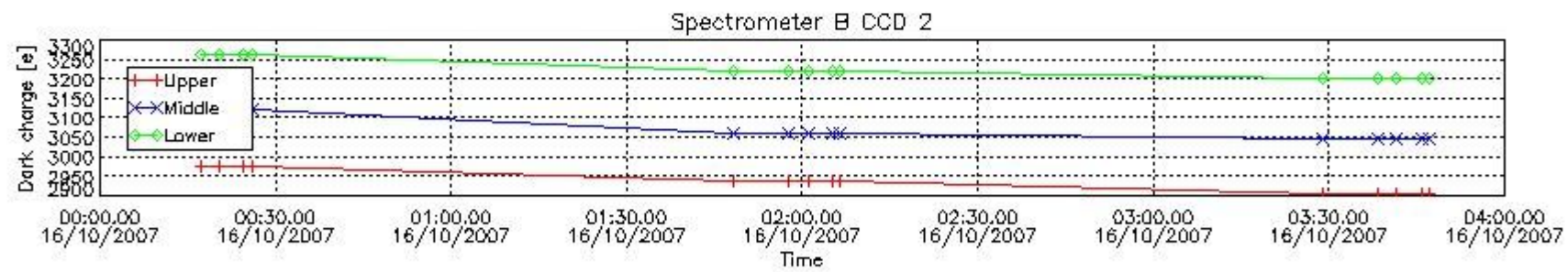
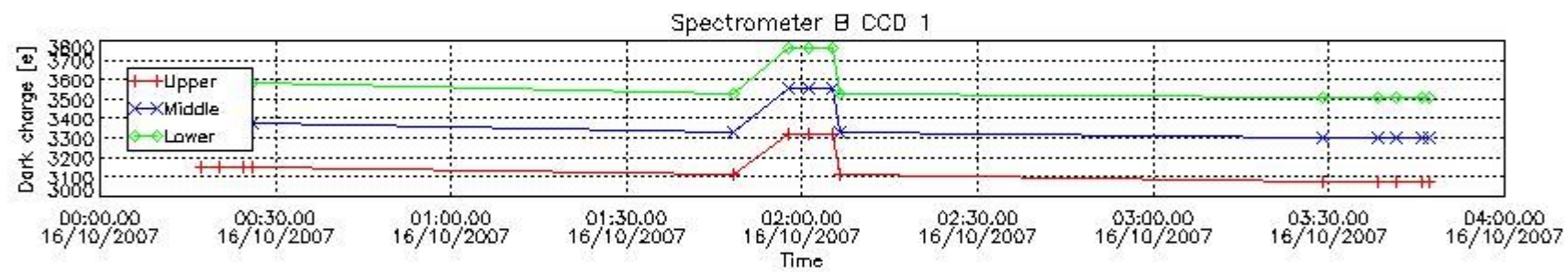
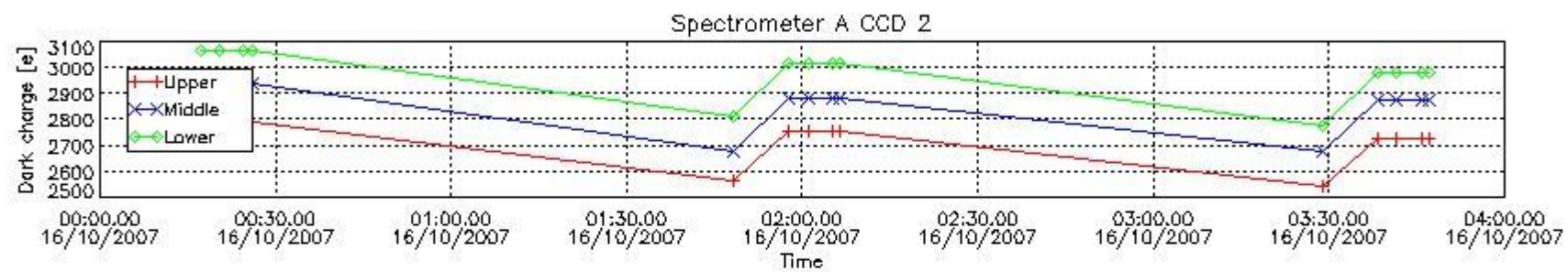
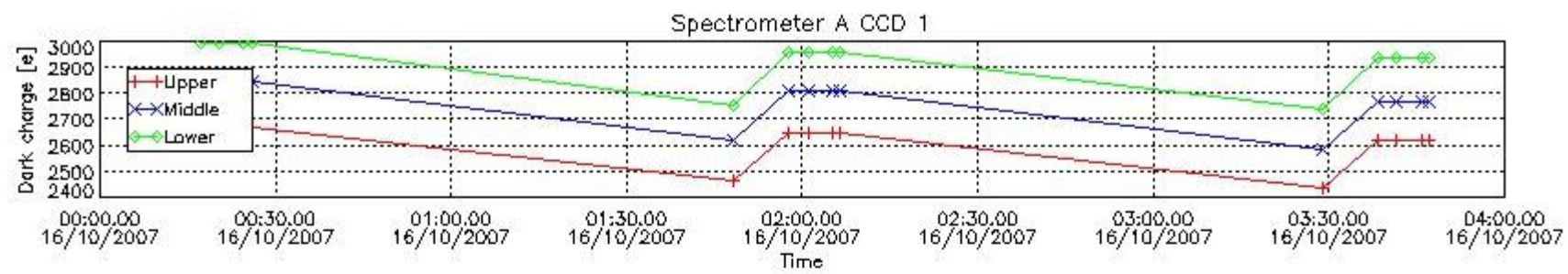
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



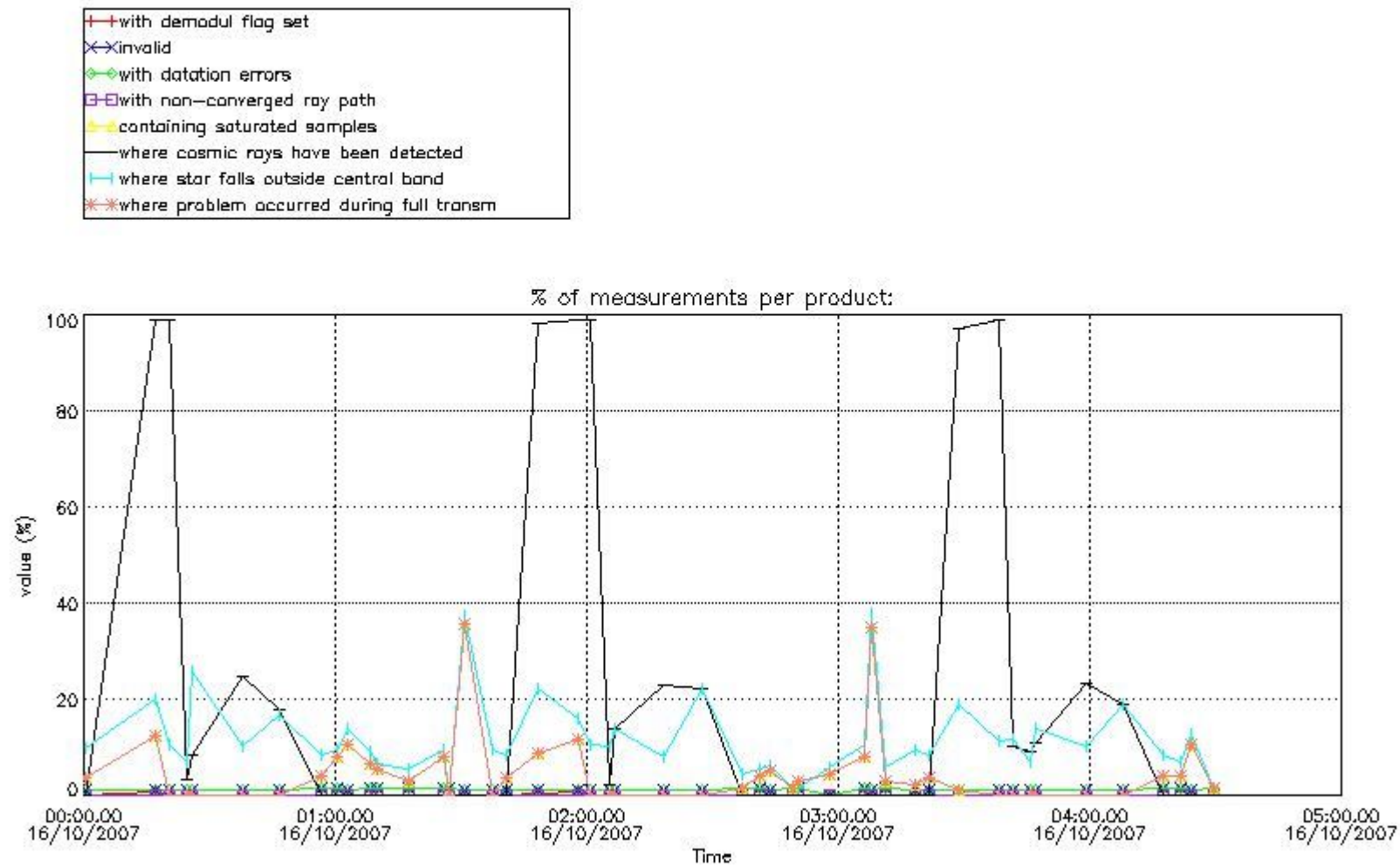
5. Demodulation flag and quality information monitoring

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

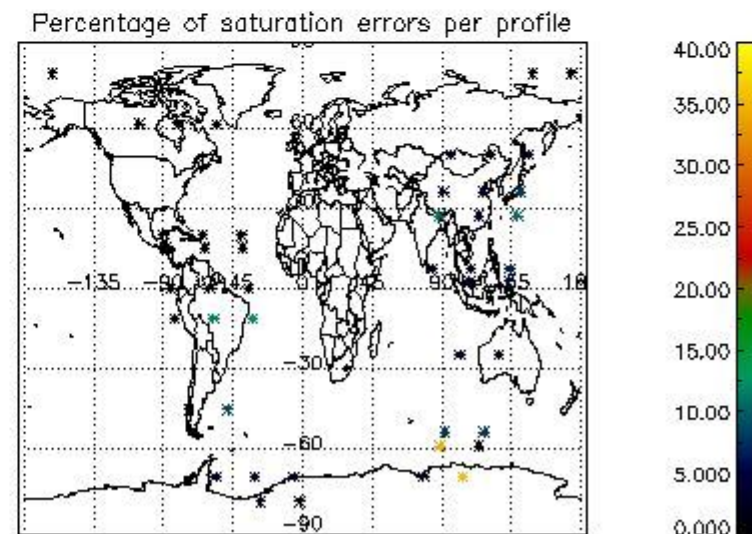
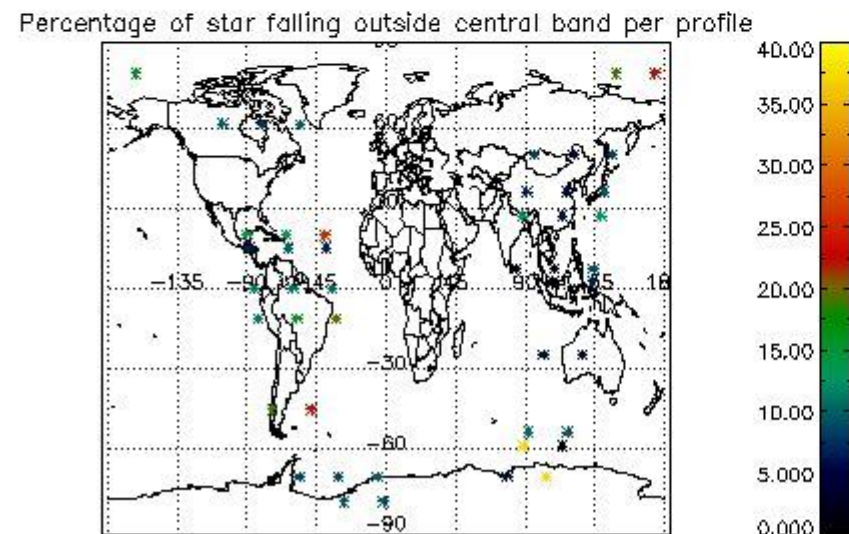
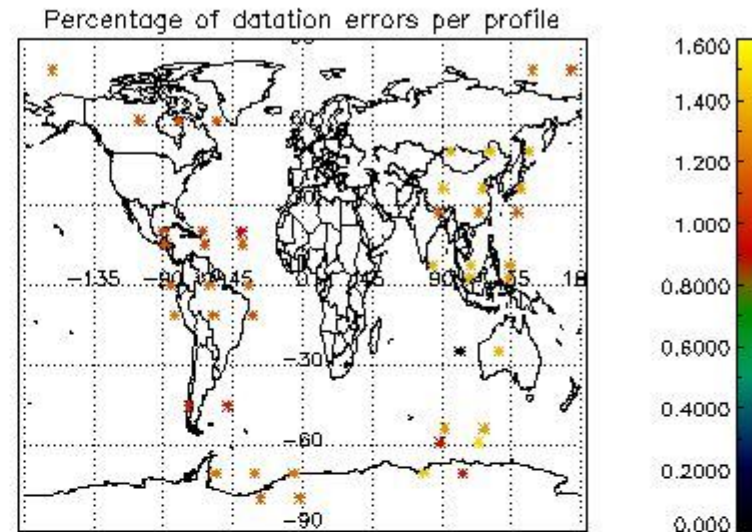
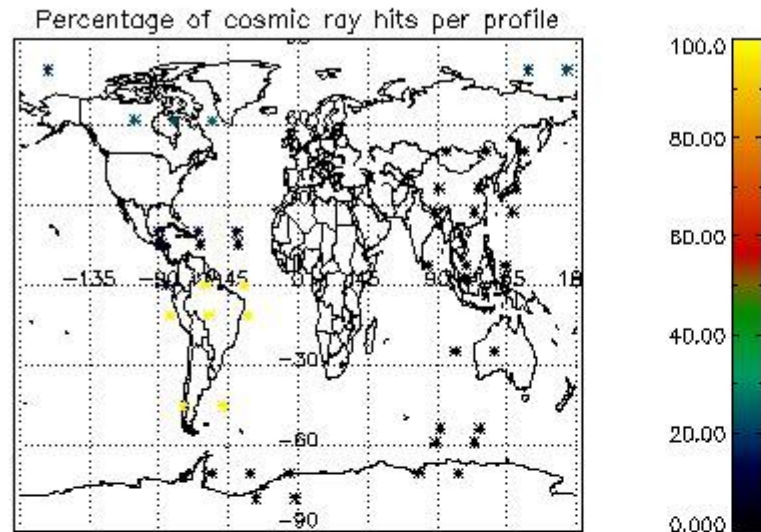
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.2766 %
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)



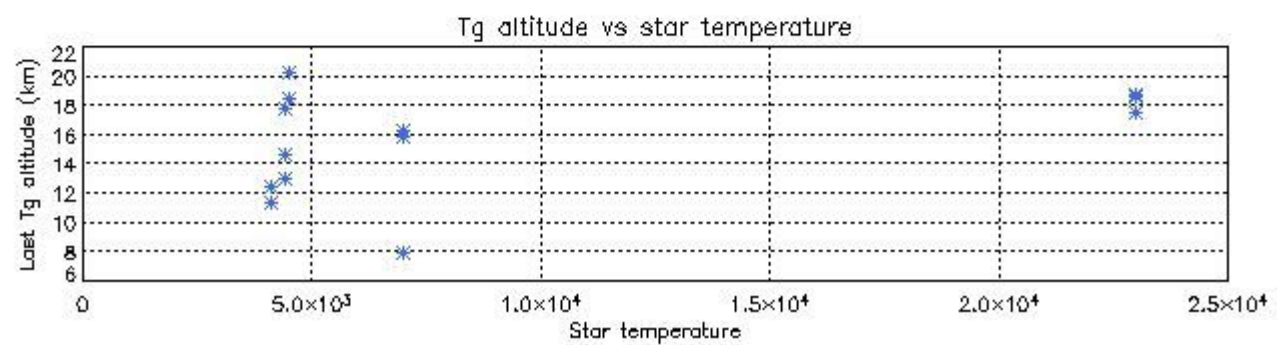
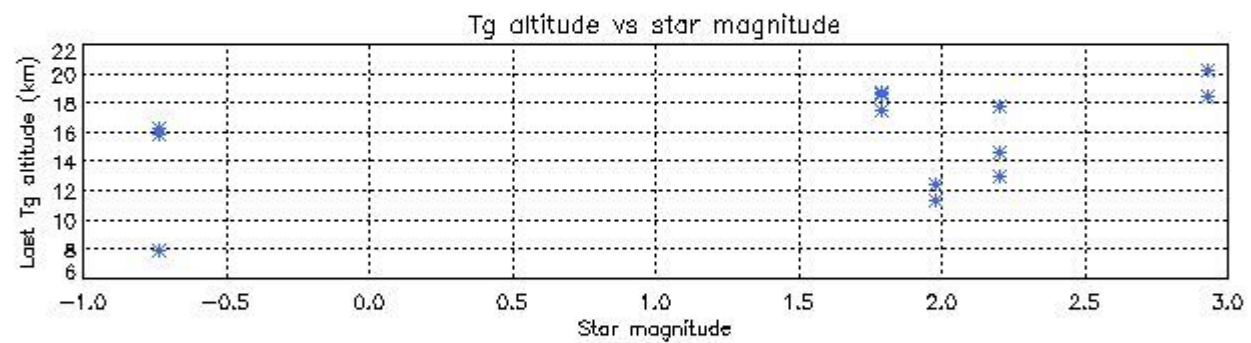
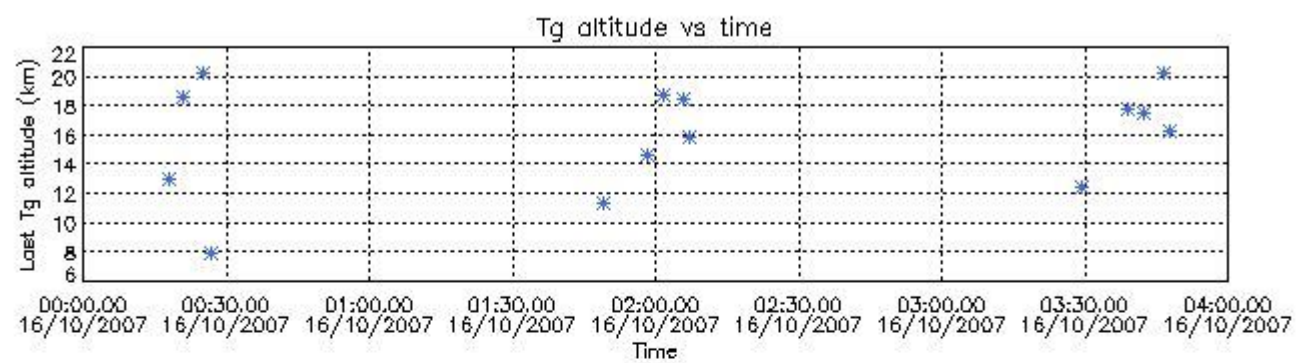
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.925	19.179	NaN
St. deviation:	3.6360	5.2281	NaN
Maximum:	20.182	27.796	NaN
Minimum:	7.9281	3.6894	NaN
Number of data:	14.000	27.000	NaN

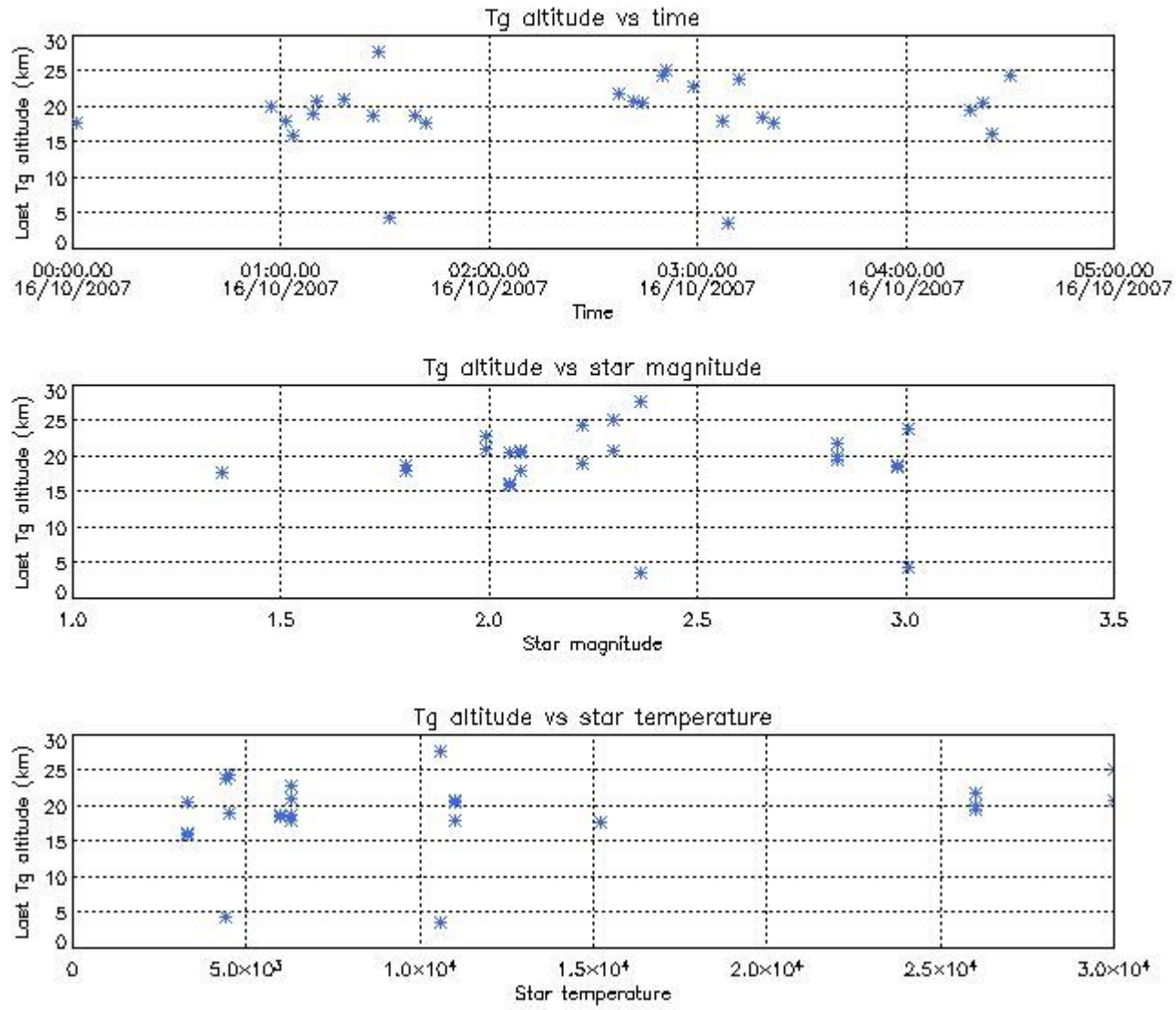
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

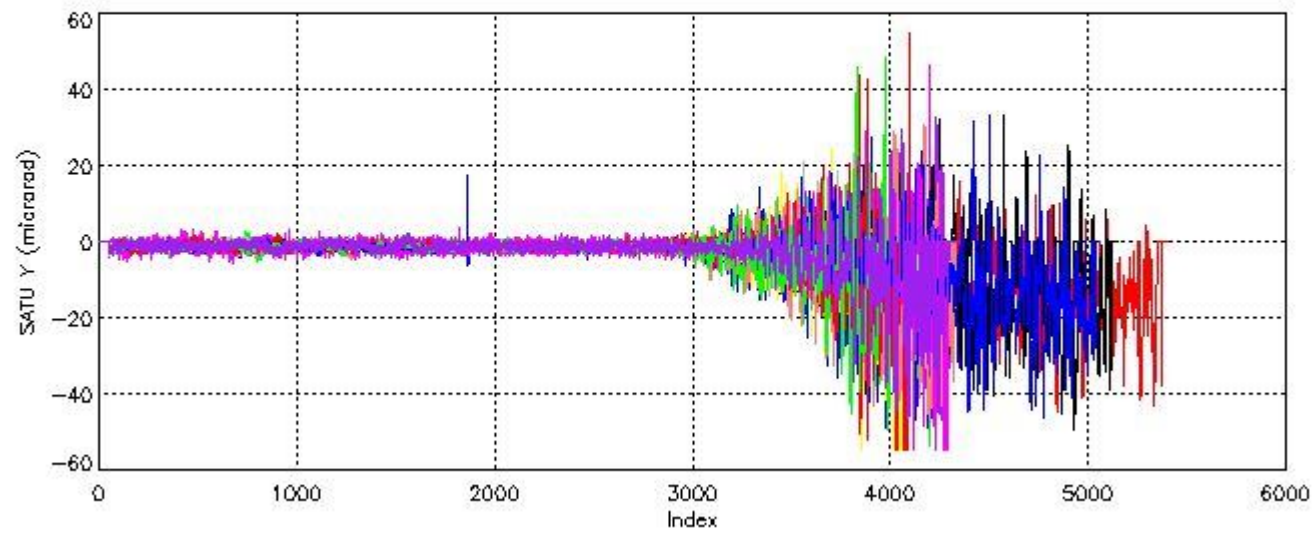
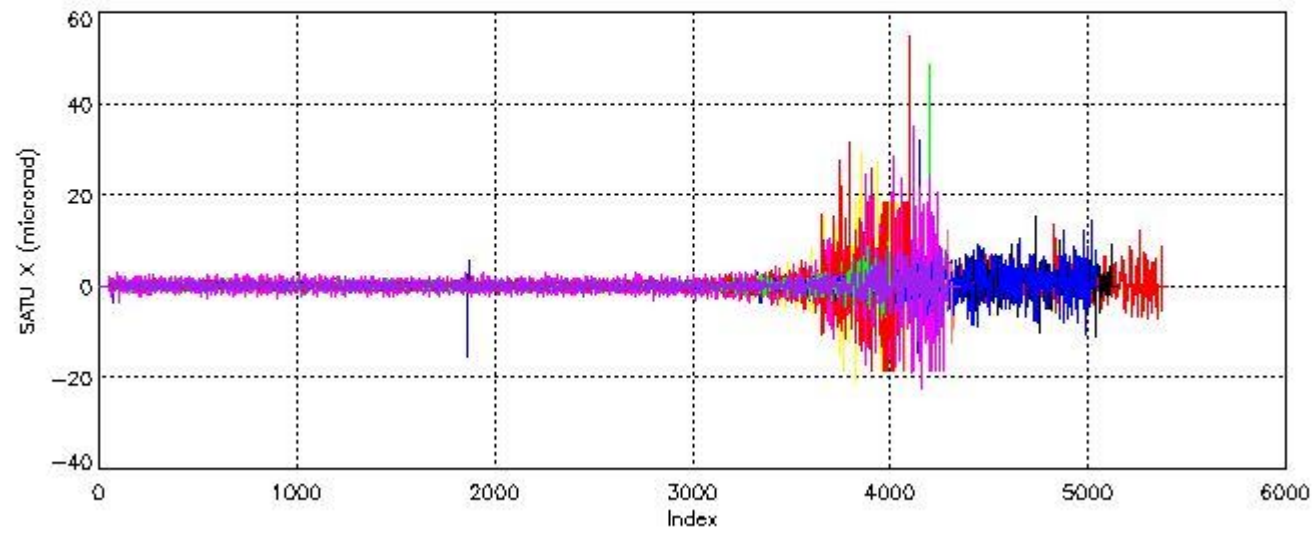


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17200	-1.2160	0.14332	-1.2954
St. deviation:	0.34624	0.79416	0.72054	1.2407
Maximum:	2.2000	2.5000	6.4000	7.8000
Minimum:	-3.7000	-5.1000	-6.0000	-8.8000

Number of data:	14250.	14250.	23100.	23100.
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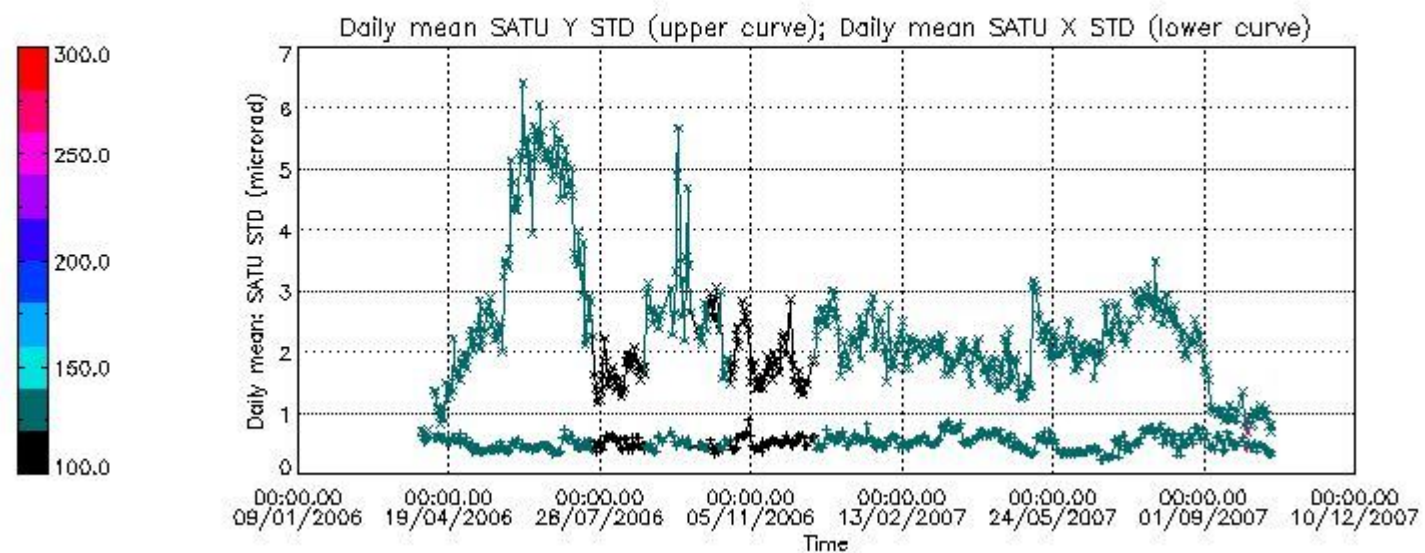
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

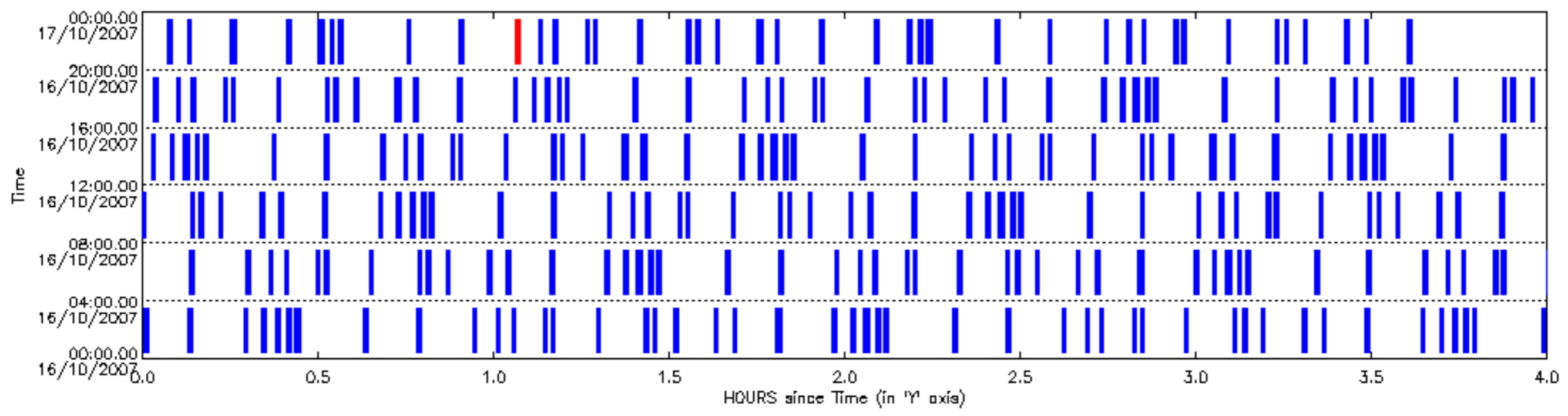
Lower curve: STD of SATU X axis

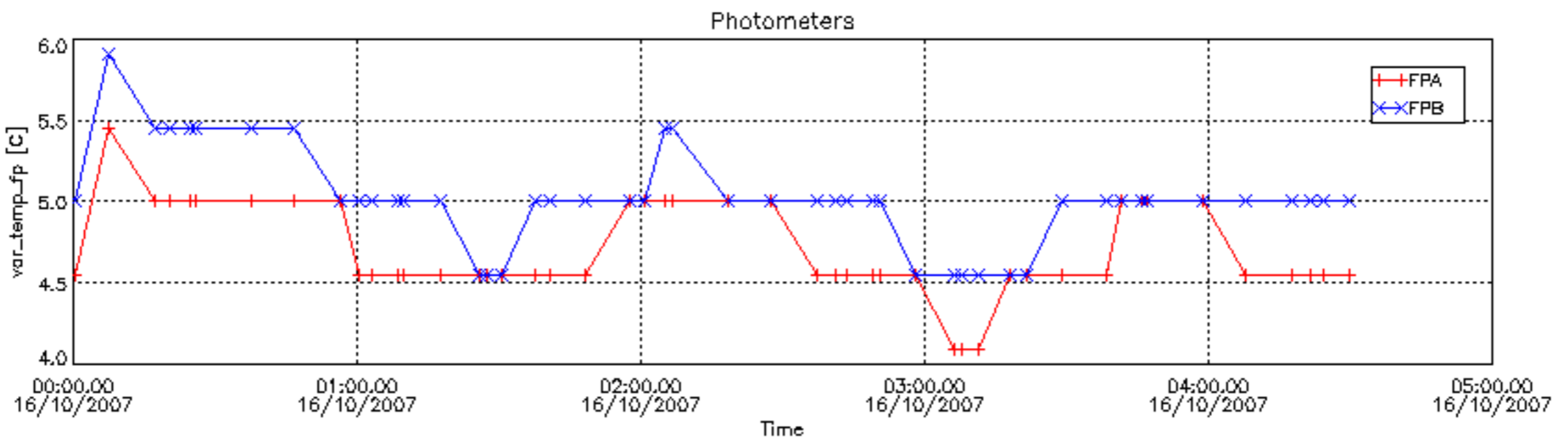
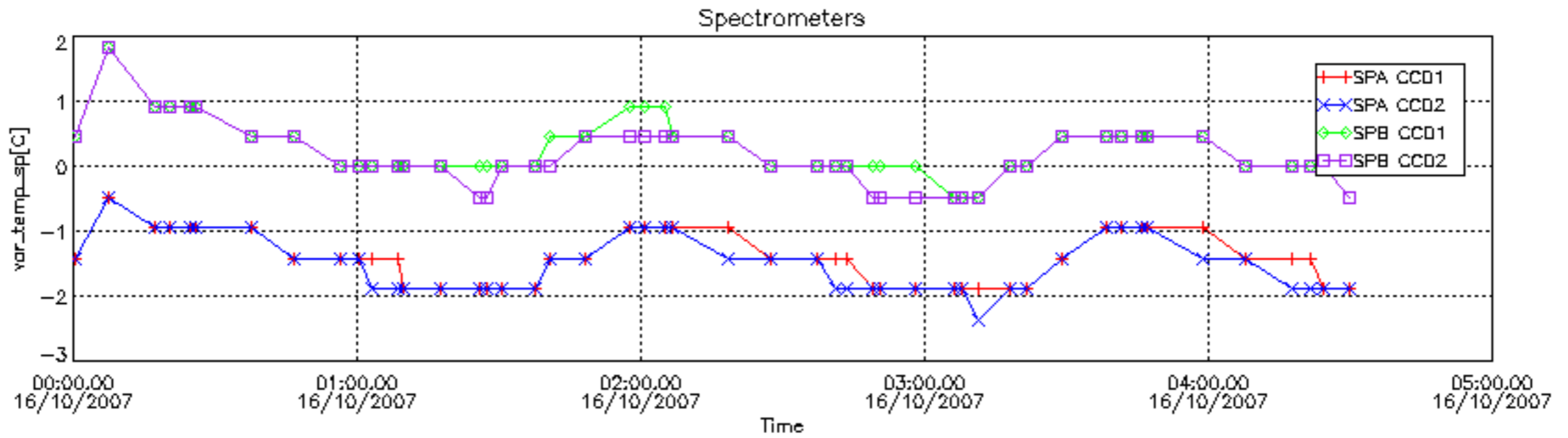


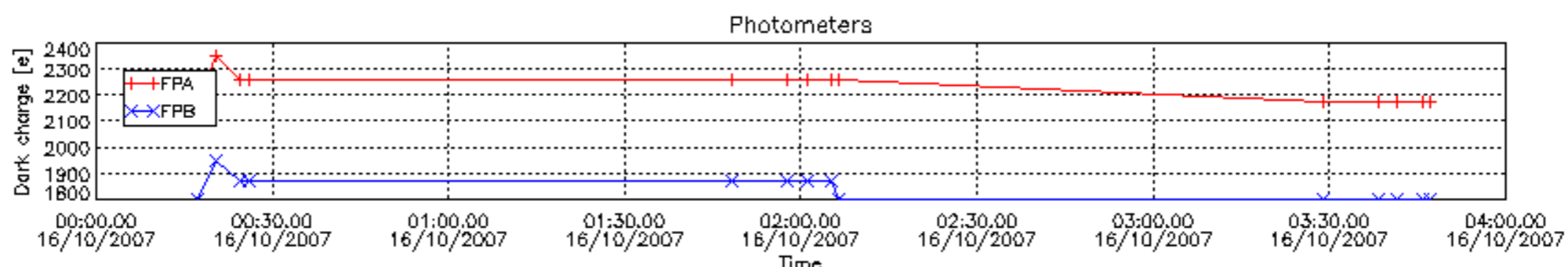
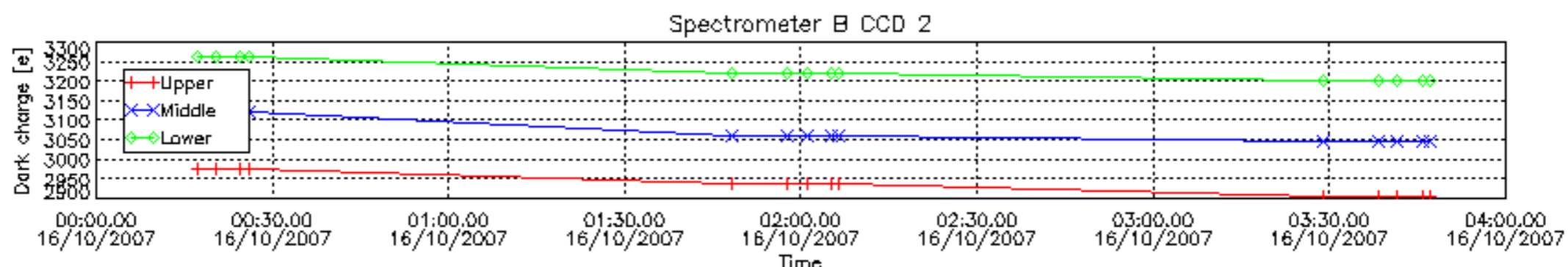
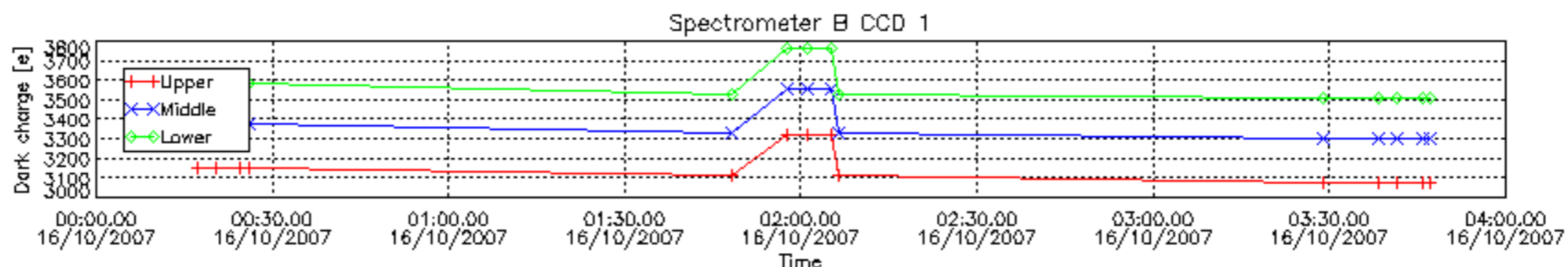
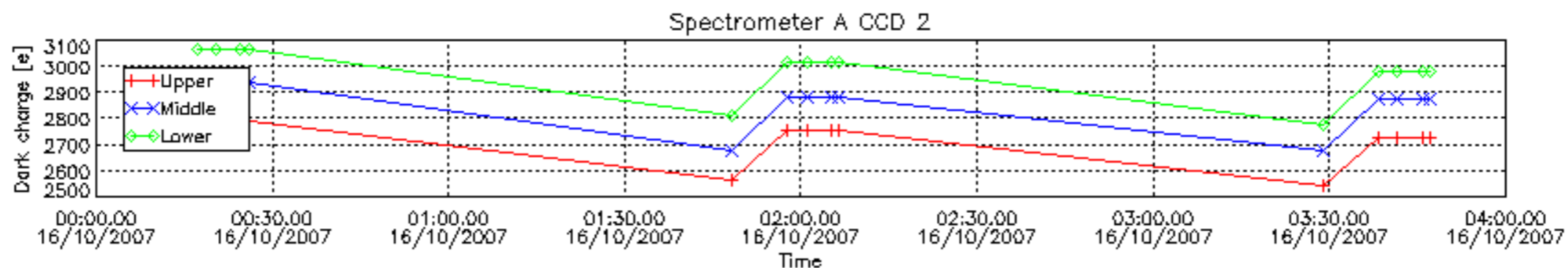
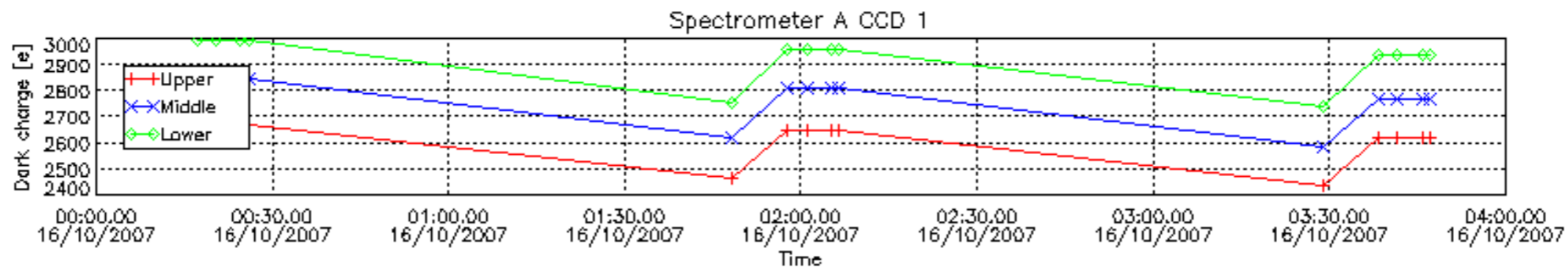
8. Auxiliary Data Files used for the production reported in section 2.4

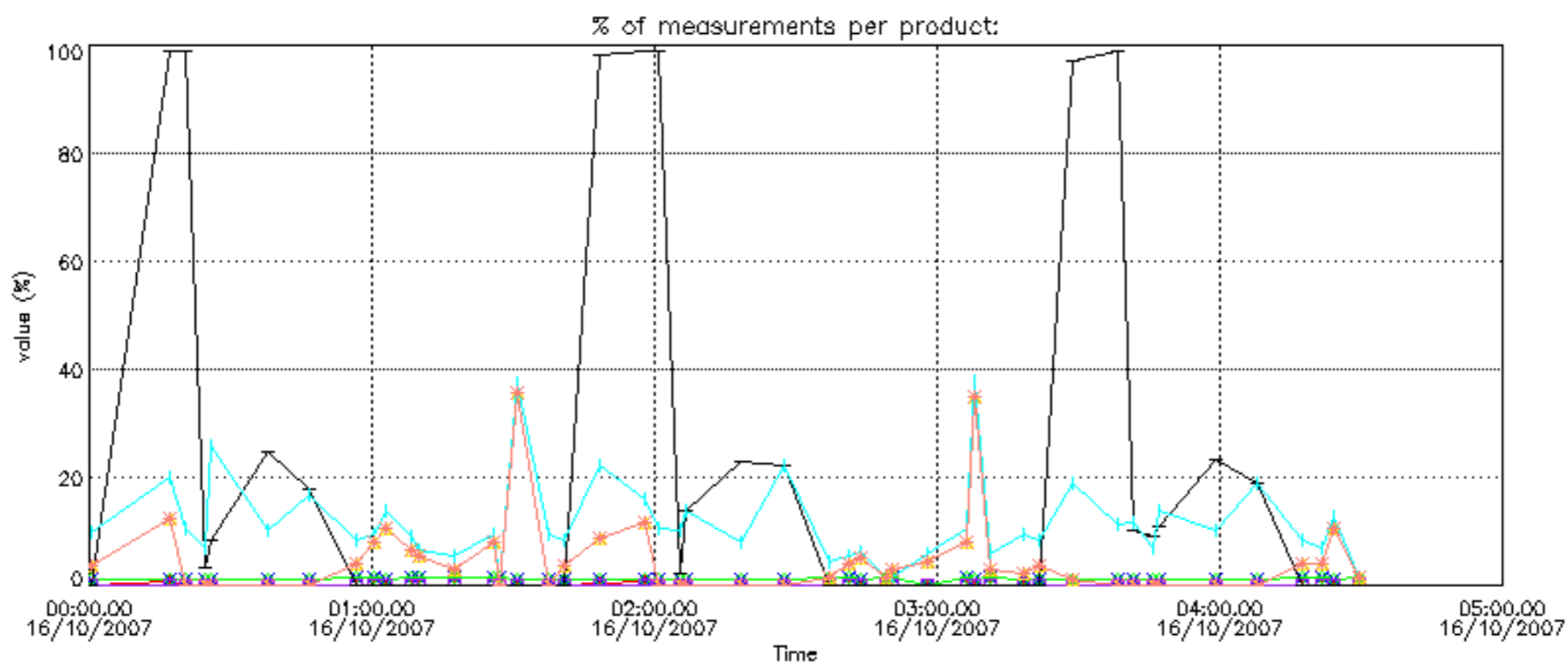
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-OCT-2007 00:00:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000	1	16-OCT-2007 00:00:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-OCT-2007 00:00:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-OCT-2007 00:00:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-OCT-2007 00:00:16
ECMWF_FILE	AUX_ECF_AXNECM20071015_060113_20071015_210000_20071016_090000	1	16-OCT-2007 00:00:16
ECMWF_FILE	AUX_ECF_AXNECM20071015_184906_20071016_030000_20071016_150000	33	16-OCT-2007 03:06:18
OPTIONAL_ECMWF_FILE	MISSING	1	16-OCT-2007 00:00:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071015_204114_000060572062_00300_29412_4363.N1	1	16-OCT-2007 00:00:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071015_222730_000057382062_00301_29413_4364.N1	2	16-OCT-2007 00:07:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071016_000308_000057382062_00302_29414_4365.N1	20	16-OCT-2007 01:48:14
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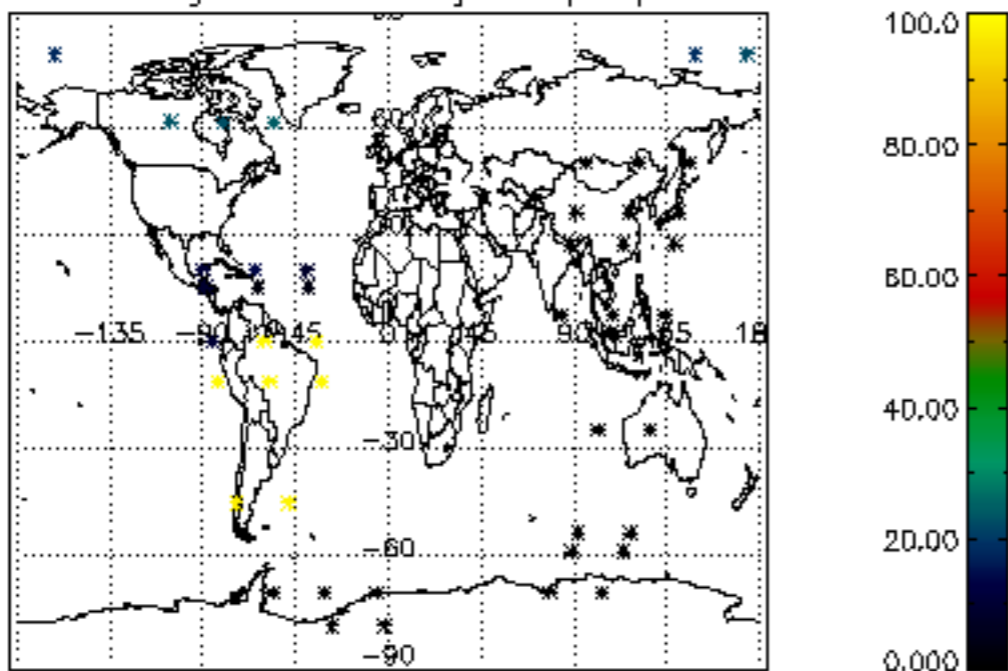




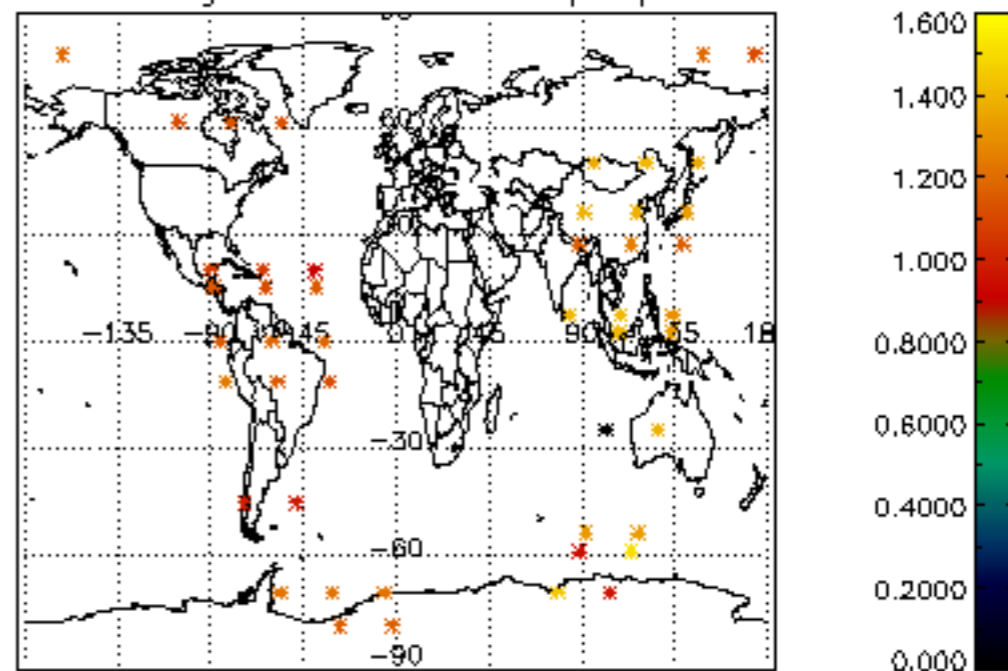




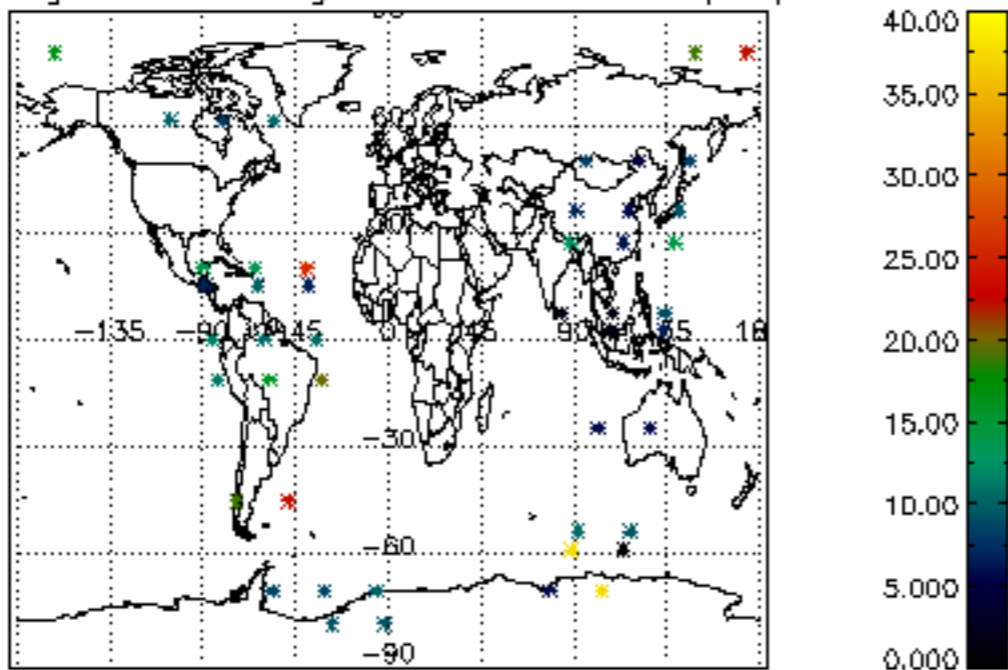
Percentage of cosmic ray hits per profile



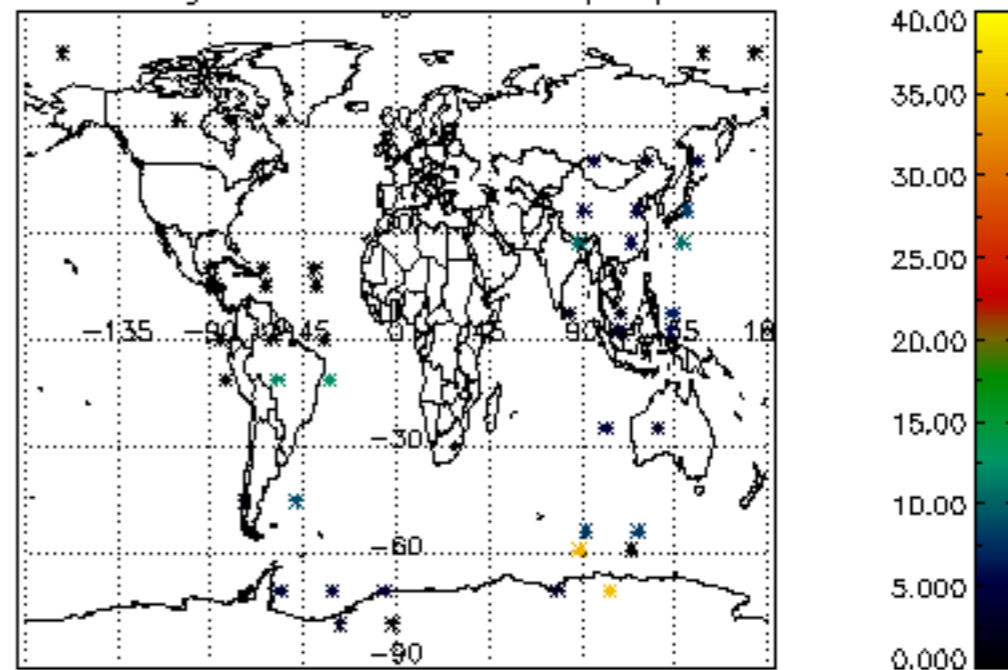
Percentage of datation errors per profile



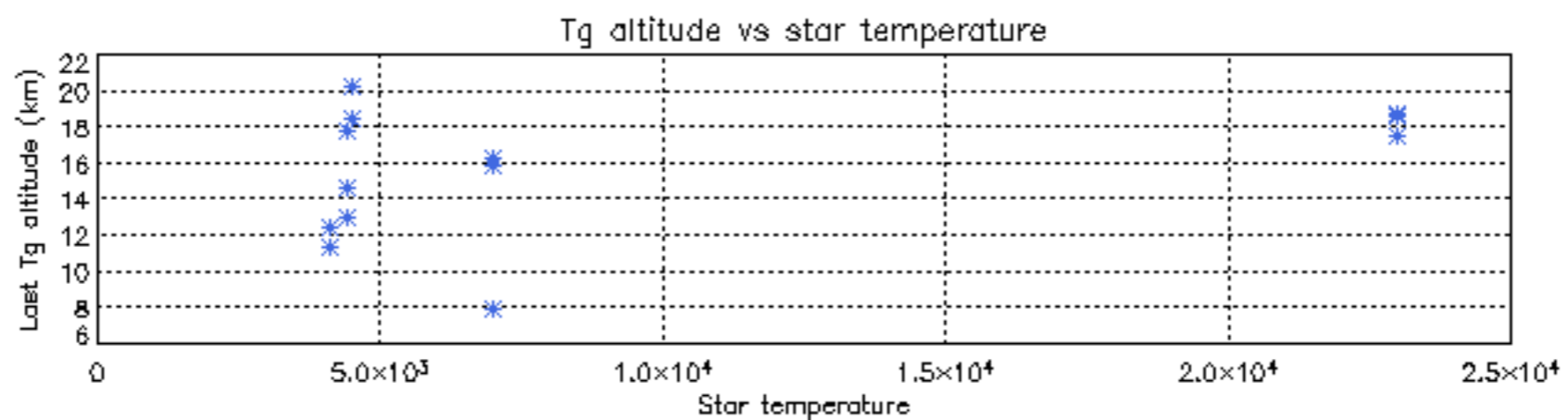
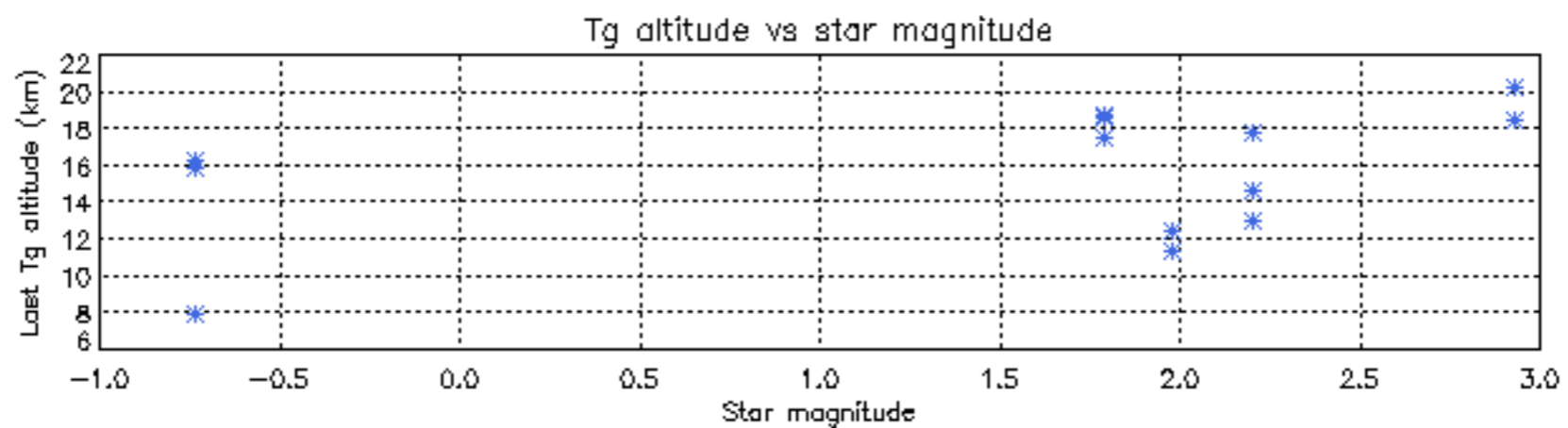
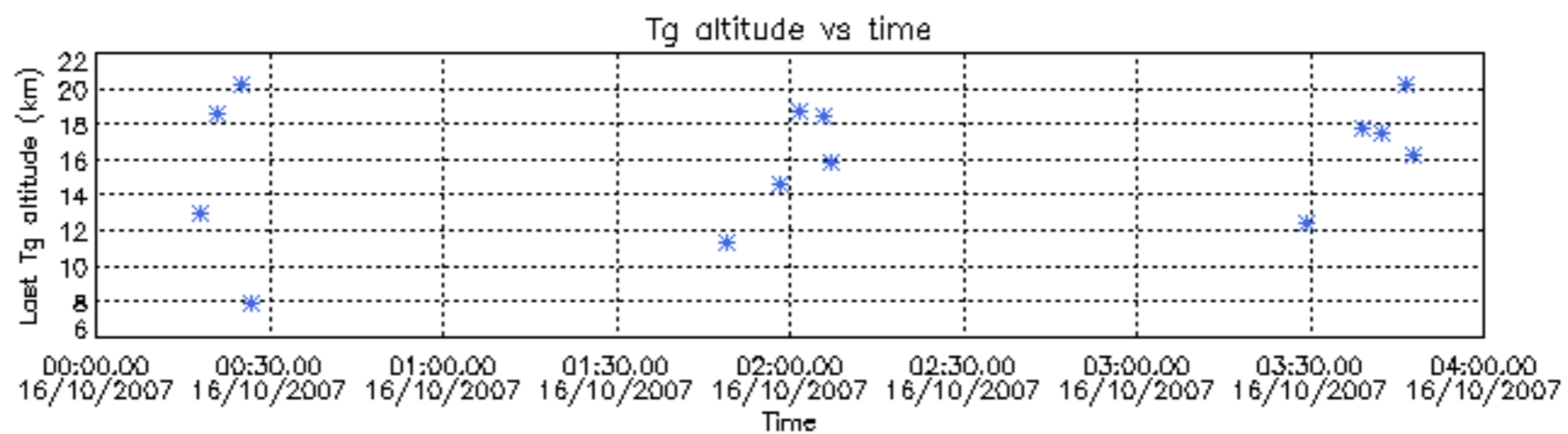
Percentage of star falling outside central band per profile



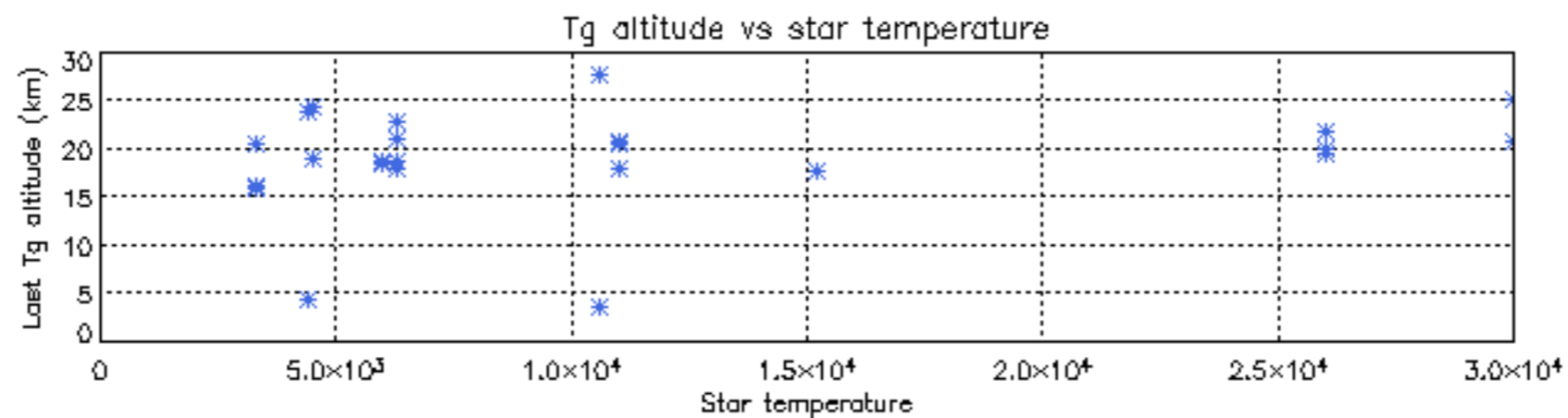
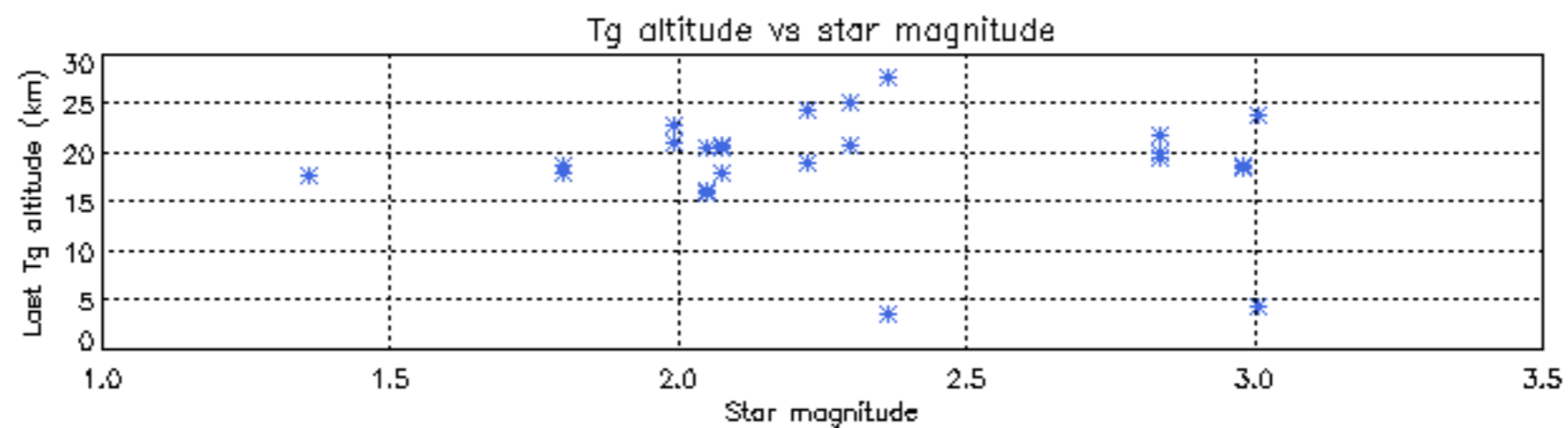
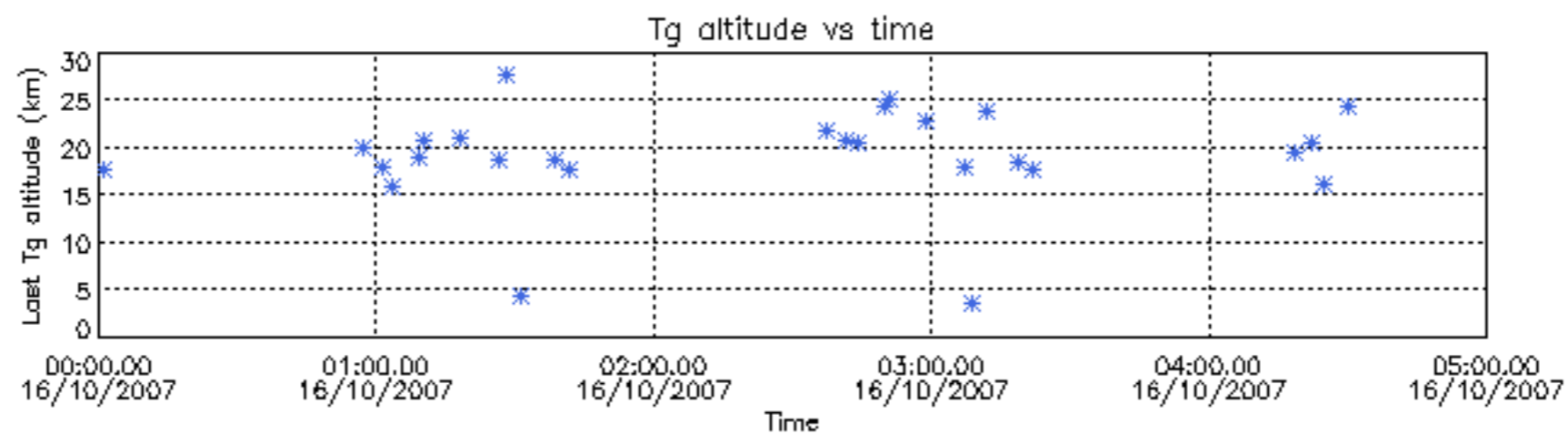
Percentage of saturation errors per profile

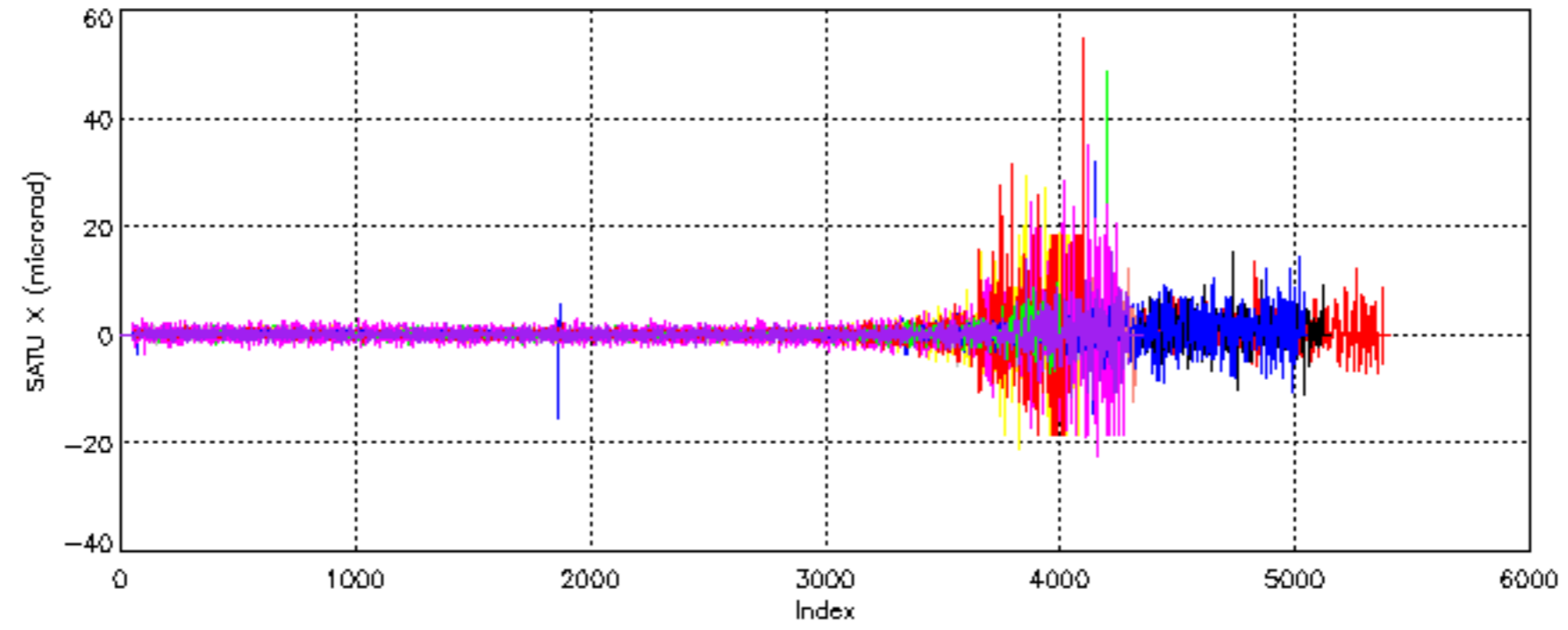


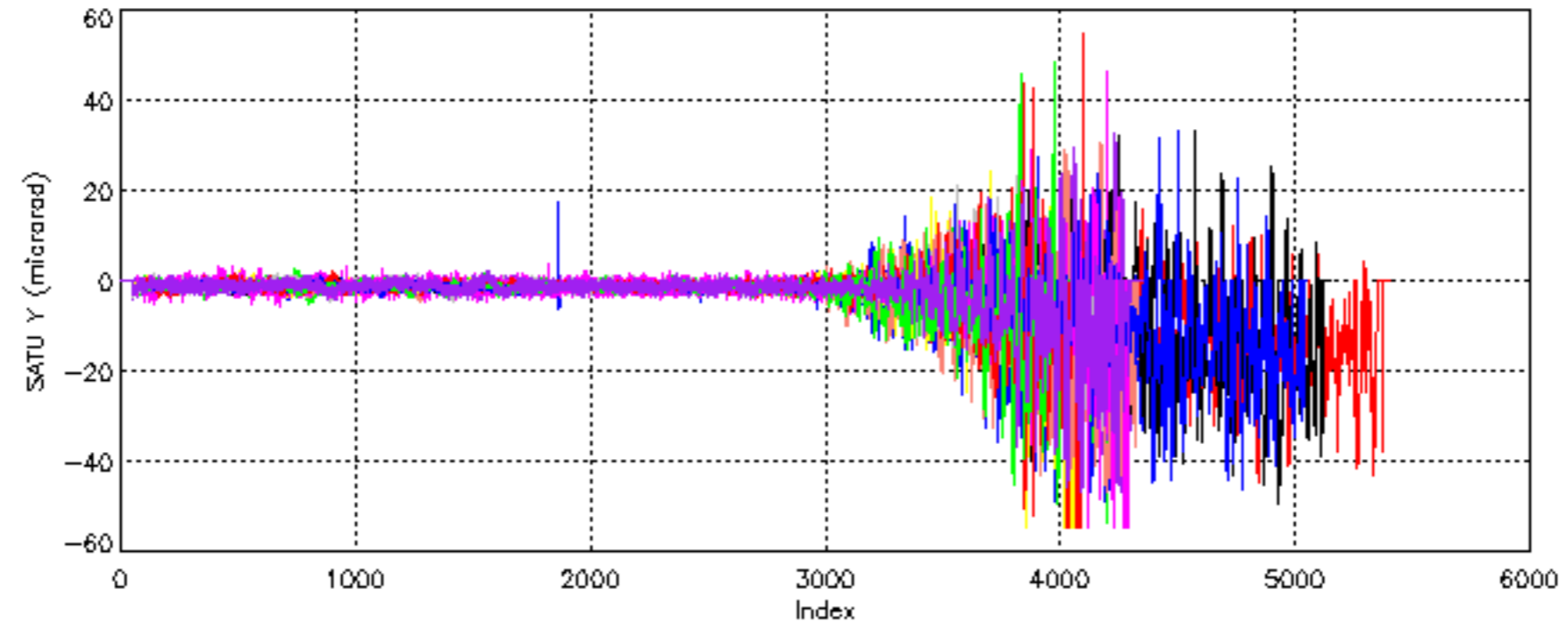
Tangent altitude at which the star is lost

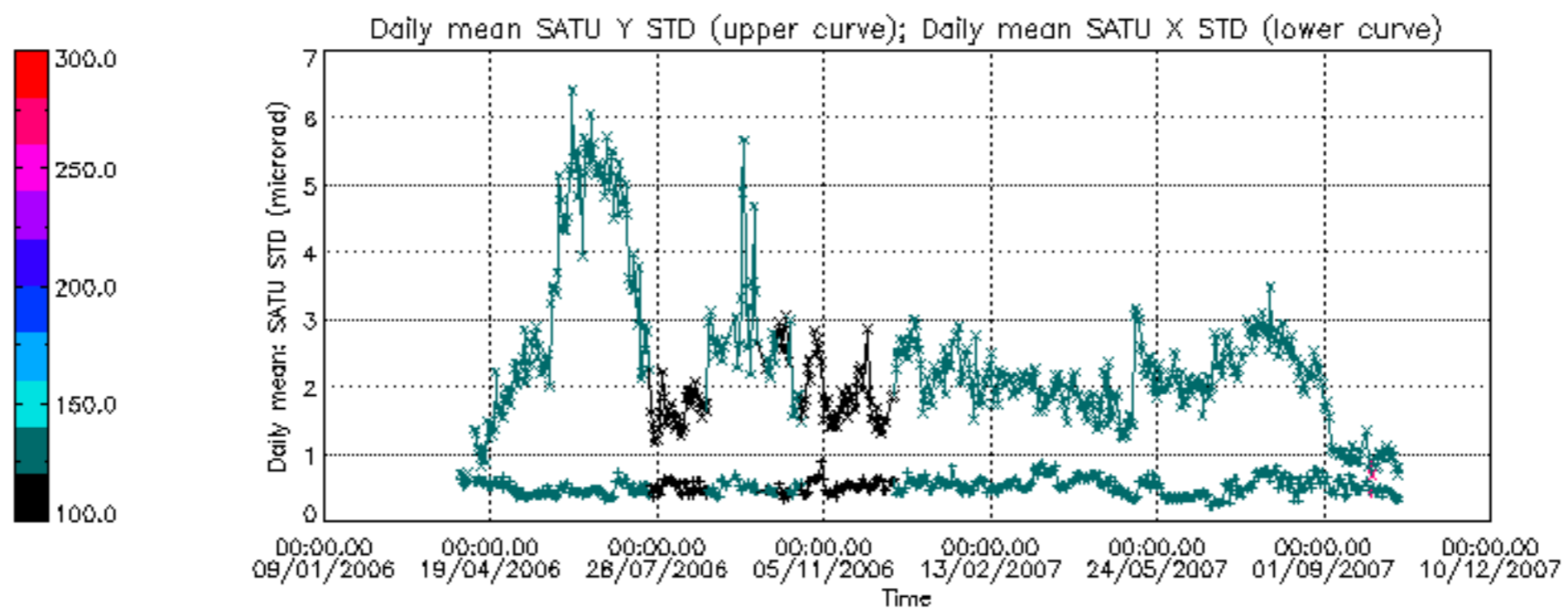


Tangent altitude at which the star is lost










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 8; 106.3; 03-OCT-2007 07:13:10; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29233
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 11; 6014.5; 03-OCT-2007 08:51:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29233
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13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
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16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
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19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288
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4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288
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6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288
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9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
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 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
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 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
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 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300
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 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
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 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
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 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
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 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
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 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300
 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29289
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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
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 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290
 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290
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 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290
 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
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5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
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10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
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19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
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4; 2537.4; 20-OCT-2007 15:42:11; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;29481
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6; 2956.0; 20-OCT-2007 15:49:10; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29481
7; 3425.4; 20-OCT-2007 15:56:59; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29481
8; 3920.4; 20-OCT-2007 16:05:14; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29481
9; 4014.5; 20-OCT-2007 16:06:48; Bright; 40.5; 82; 48Bet UMA ; 2.37; 10600;occ; 81; 0;29481
10; 4222.1; 20-OCT-2007 16:10:16; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29481

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 13; 5972.5; 20-OCT-2007 16:39:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29481
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 19; 7111.4; 20-OCT-2007 16:58:25; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;29481

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 16; 6194.5; 20-OCT-2007 18:23:44; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;29482
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 19; 6194.7; 20-OCT-2007 20:04:21; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;29483
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 13; 4222.1; 20-OCT-2007 21:12:04; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29484
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7; 822.4; 20-OCT-2007 21:56:00; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29485
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19; 4222.3; 20-OCT-2007 22:52:40; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29485
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17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
18; 6448.2; 22-OCT-2007 15:44:08; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29509
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5; 2873.6; 22-OCT-2007 16:25:09; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29510
6; 2951.3; 22-OCT-2007 16:26:27; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29510
7; 3425.1; 22-OCT-2007 16:34:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29510
8; 3626.5; 22-OCT-2007 16:37:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29510
9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
10; 4014.4; 22-OCT-2007 16:44:10; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;29510

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 20; 6865.3; 22-OCT-2007 19:12:17; Dark ; 10.0; 143; Alp Hyi ; 2.86; 7200;occ; 20; 0;29511

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 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29512
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 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512
 14; 4224.2; 22-OCT-2007 20:08:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29512
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 18; 5992.1; 22-OCT-2007 20:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29512
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 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515
 8; 915.3; 23-OCT-2007 00:15:31; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29515
 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515
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 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
 14; 2872.9; 23-OCT-2007 00:48:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29515
 15; 2950.5; 23-OCT-2007 00:49:26; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29515
 16; 3424.9; 23-OCT-2007 00:57:20; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29515
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 18; 3919.5; 23-OCT-2007 01:05:35; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29515
 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515
 20; 4224.4; 23-OCT-2007 01:10:40; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;29515
 21; 4642.0; 23-OCT-2007 01:17:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29515

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 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
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 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516
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 9; 1090.1; 23-OCT-2007 01:59:01; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29516
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 22; 3628.0; 23-OCT-2007 04:21:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29517

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 12; 830.9; 23-OCT-2007 05:15:54; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29518
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17; 6217.4; 26-OCT-2007 08:32:01; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;29562
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4; 2869.3; 26-OCT-2007 09:16:49; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29563
5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
7; 3637.3; 26-OCT-2007 09:29:37; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29563
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9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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 19; 7145.6; 26-OCT-2007 10:28:06; Dark ; 36.0; 157; The1Eri ; 2.91; 9300;occ; 72; 0;29563
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 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
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7; 91.8; 27-OCT-2007 04:37:43; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;29575
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