

GOMOS Daily Report 30-MAY-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	01JUN2007 05:55:01
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (30MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (31MAY2007 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)

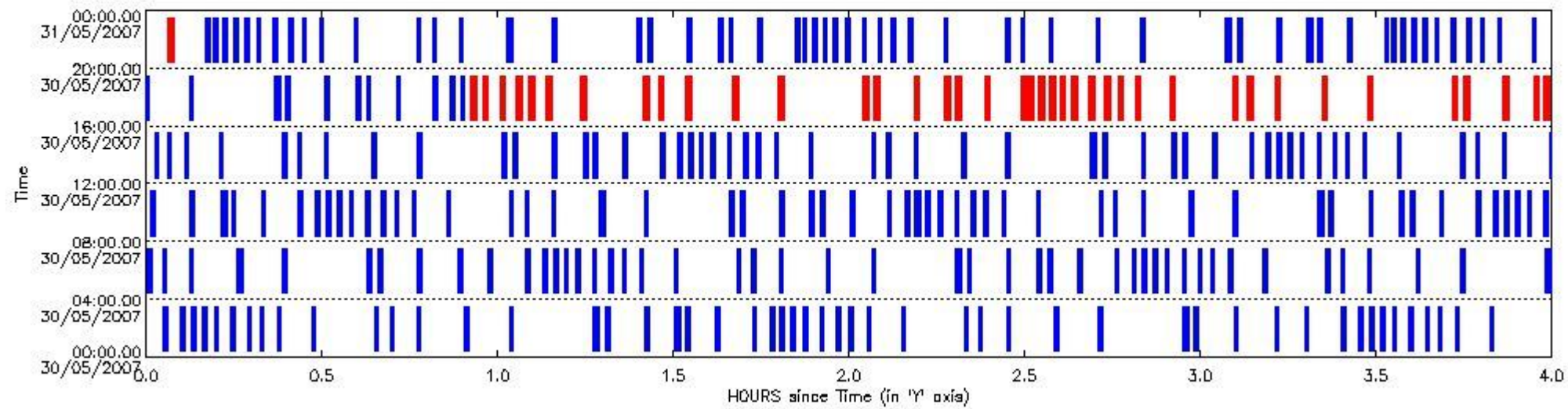
2.1 Level 0 products arrived in PCF (see template [here](#))

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
30-MAY-2007 16:55:23	26EpsSco	75	27435
30-MAY-2007 16:57:27	23TauSco	136	27435
30-MAY-2007 17:00:21	8Bet1Sco	97	27435
30-MAY-2007 17:03:02	13ZetOph	98	27435
30-MAY-2007 17:05:15	1DelOph	120	27435
30-MAY-2007 17:08:16	24AlpSer	102	27435
30-MAY-2007 17:14:11		83	27435
30-MAY-2007 17:24:53	14EtaDra	119	27435
30-MAY-2007 17:27:27	7BetUMi	60	27435
30-MAY-2007 17:32:07	1AlpUMi	49	27435
30-MAY-2007 17:40:12	27GamCas	76	27435
30-MAY-2007 17:47:52	43BetAnd	53	27435
30-MAY-2007 18:02:19	DSA1068	0	27435
30-MAY-2007 18:04:18	16BetCet	52	27435
30-MAY-2007 18:11:01	AlpPhe	84	27435

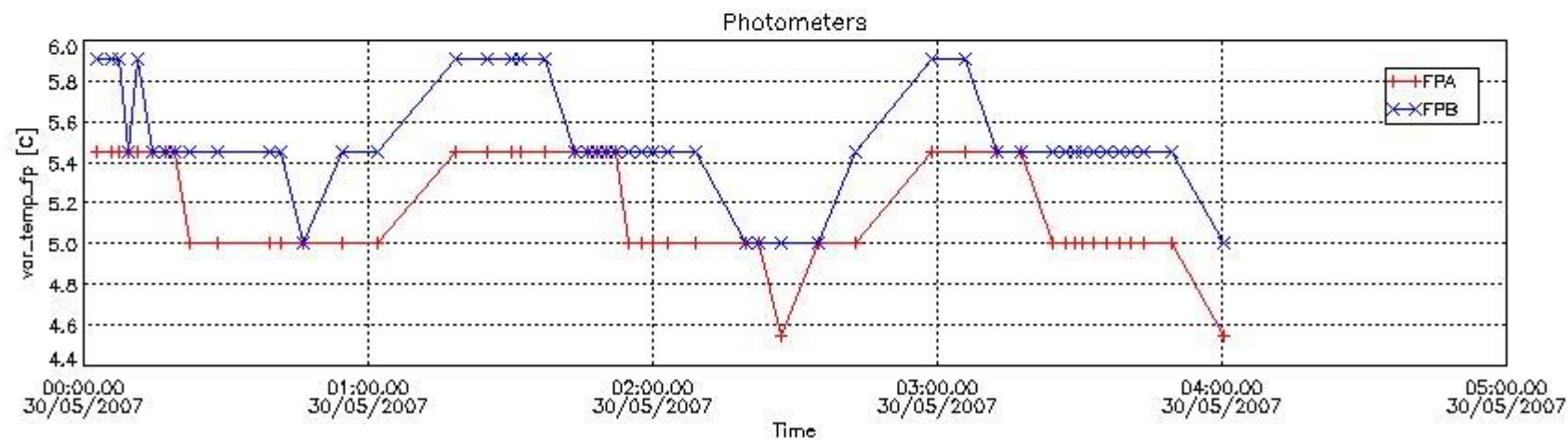
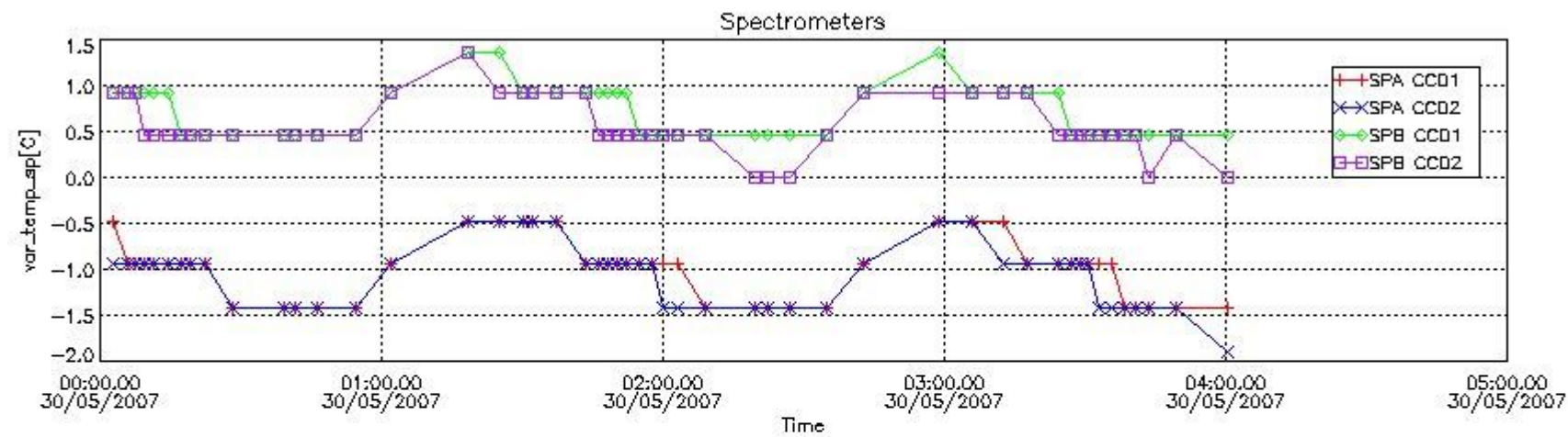
30-MAY-2007 18:16:13	BetGru	63	27436
30-MAY-2007 18:18:04	AlpGru	31	27436
30-MAY-2007 18:23:08	AlpPav	45	27436
30-MAY-2007 18:29:27	BetAra	141	27436
30-MAY-2007 18:30:41	AlpAra	147	27436
30-MAY-2007 18:32:22	TheSco	40	27436
30-MAY-2007 18:34:10	35LamSco	25	27436
30-MAY-2007 18:36:00	26EpsSco	75	27436
30-MAY-2007 18:38:03	23TauSco	136	27436
30-MAY-2007 18:40:57	8Bet1Sco	97	27436
30-MAY-2007 18:43:38	13ZetOph	98	27436
30-MAY-2007 18:45:51	1DelOph	120	27436
30-MAY-2007 18:48:52	24AlpSer	102	27436
30-MAY-2007 18:54:47		83	27436
30-MAY-2007 19:05:29	14EtaDra	119	27436
30-MAY-2007 19:08:03	7BetUMi	60	27436
30-MAY-2007 19:12:43	1AlpUMi	49	27436
30-MAY-2007 19:20:48	27GamCas	76	27436
30-MAY-2007 19:28:28	43BetAnd	53	27436
30-MAY-2007 19:42:56	DSA1068	0	27436
30-MAY-2007 19:44:55	16BetCet	52	27436
30-MAY-2007 19:51:38	AlpPhe	84	27436
30-MAY-2007 19:56:50	BetGru	63	27437
30-MAY-2007 19:58:40	AlpGru	31	27437
30-MAY-2007 20:03:45	AlpPav	45	27437

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_1PNPDE20070530_000256_000000412058_00317_27425_5469.N1	30-MAY-2007 00:02:56	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27425	No
2	GOM_TRA_1PNPDE20070530_000550_000000482058_00317_27425_5470.N1	30-MAY-2007 00:05:50	Straylight	47.500	40	The Sco	1.8590	7100.0	95	27425	No
3	GOM_TRA_1PNPDE20070530_000738_000000482058_00317_27425_5471.N1	30-MAY-2007 00:07:38	Twilight_stray	48.000	25	35Lam Sco	1.6200	28000.	96	27425	No
4	GOM_TRA_1PNPDE20070530_000929_000000462058_00317_27425_5472.N1	30-MAY-2007 00:09:29	Twilight_stray	46.000	75	26Eps Sco	2.2910	4250.0	92	27425	No
5	GOM_TRA_1PNPDE20070530_001133_000000432058_00317_27425_5473.N1	30-MAY-2007 00:11:33	Bright	42.500	136	23Tau Sco	2.8220	30000.	85	27425	No
6	GOM_TRA_1PNPDE20070530_001428_000000402058_00317_27425_5474.N1	30-MAY-2007 00:14:28	Bright	39.500	97	8Bet1Sco	2.5610	30000.	79	27425	No
7	GOM_TRA_1PNPDE20070530_001711_000000422058_00317_27425_5475.N1	30-MAY-2007 00:17:11	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	27425	No
8	GOM_TRA_1PNPDE20070530_001924_000000402058_00317_27425_5476.N1	30-MAY-2007 00:19:24	Bright	40.000	120	1Del Oph	2.7340	3200.0	80	27425	No
9	GOM_TRA_1PNPDE20070530_002226_000000372058_00317_27425_5477.N1	30-MAY-2007 00:22:26	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	27425	No
10	GOM_TRA_1PNPDE20070530_002819_000000372058_00317_27425_5478.N1	30-MAY-2007 00:28:19	Bright	36.500	83		2.3780	11000.	73	27425	No
11	GOM_TRA_1PNPDE20070530_003905_000000362058_00317_27425_5479.N1	30-MAY-2007 00:39:05	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27425	No
12	GOM_TRA_1PNPDE20070530_004137_000000362058_00317_27425_5480.N1	30-MAY-2007 00:41:37	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27425	No
13	GOM_TRA_1PNPDE20070530_004616_000000362058_00317_27425_5481.N1	30-MAY-2007 00:46:16	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27425	No
14	GOM_TRA_1PNPDE20070530_005422_000000372058_00317_27425_5482.N1	30-MAY-2007 00:54:22	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	27425	No
15	GOM_TRA_1PNPDE20070530_010200_000000422058_00317_27425_5483.N1	30-MAY-2007 01:02:00	Bright	41.500	53	43Bet And	2.0480	3300.0	83	27425	No
16	GOM_TRA_1PNPDE20070530_011821_000000472058_00317_27425_5601.N1	30-MAY-2007 01:18:21	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	27425	No
17	GOM_TRA_1PNPDE20070530_012505_000000442058_00317_27425_5602.N1	30-MAY-2007 01:25:05	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	27425	No
18	GOM_TRA_1PNPDE20070530_013014_000000552058_00318_27426_5603.N1	30-MAY-2007 01:30:14	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	27426	No
19	GOM_TRA_1PNPDE20070530_013203_000000472058_00318_27426_5604.N1	30-MAY-2007 01:32:03	Dark	46.500	31	Alp Gru	1.7340	15200.	93	27426	No
20	GOM_TRA_1PNPDE20070530_013710_000000432058_00318_27426_5605.N1	30-MAY-2007 01:37:10	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27426	No
21	GOM_TRA_1PNPDE20070530_014332_000000422058_00318_27426_5606.N1	30-MAY-2007 01:43:32	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	27426	No
22	GOM_TRA_1PNPDE20070530_014626_000000462058_00318_27426_5607.N1	30-MAY-2007 01:46:26	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27426	No
23	GOM_TRA_1PNPDE20070530_014815_000000482058_00318_27426_5608.N1	30-MAY-2007 01:48:15	Twilight_stray	47.500	25	35Lam Sco	1.6200	28000.	95	27426	No
24	GOM_TRA_1PNPDE20070530_015005_000000482058_00318_27426_5609.N1	30-MAY-2007 01:50:05	Twilight_stray	47.500	75	26Eps Sco	2.2910	4250.0	95	27426	No
25	GOM_TRA_1PNPDE20070530_015210_000000422058_00318_27426_5610.N1	30-MAY-2007 01:52:10	Bright	42.000	136	23Tau Sco	2.8220	30000.	84	27426	No
26	GOM_TRA_1PNPDE20070530_015504_000000392058_00318_27426_5611.N1	30-MAY-2007 01:55:04	Bright	39.000	97	8Bet1Sco	2.5610	30000.	78	27426	No
27	GOM_TRA_1PNPDE20070530_015747_000000422058_00318_27426_5612.N1	30-MAY-2007 01:57:47	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	27426	No
28	GOM_TRA_1PNPDE20070530_020000_000000402058_00318_27426_5613.N1	30-MAY-2007 02:00:00	Bright	40.000	120	1Del Oph	2.7340	3200.0	80	27426	No
29	GOM_TRA_1PNPDE20070530_020302_000000372058_00318_27426_5614.N1	30-MAY-2007 02:03:02	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27426	No

30	GOM_TRA_1PNPDE20070530_020855_000000342058_00318_27426_5615.N1	30-MAY-2007 02:08:55	Bright	34.000	83		2.3780	11000.	68	27426	No
31	GOM_TRA_1PNPDE20070530_021940_000000372058_00318_27426_5616.N1	30-MAY-2007 02:19:40	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	27426	No
32	GOM_TRA_1PNPDE20070530_022212_000000362058_00318_27426_5617.N1	30-MAY-2007 02:22:12	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27426	No
33	GOM_TRA_1PNPDE20070530_022652_000000352058_00318_27426_5618.N1	30-MAY-2007 02:26:52	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27426	No
34	GOM_TRA_1PNPDE20070530_023457_000000432058_00318_27426_5777.N1	30-MAY-2007 02:34:57	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	27426	No
35	GOM_TRA_1PNPDE20070530_024236_000000452058_00318_27426_5778.N1	30-MAY-2007 02:42:36	Bright	44.500	53	43Bet And	2.0480	3300.0	89	27426	No
36	GOM_TRA_1PNPDE20070530_025858_000000452058_00318_27426_5779.N1	30-MAY-2007 02:58:58	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	27426	No
37	GOM_TRA_1PNPDE20070530_030541_000000442058_00318_27426_5780.N1	30-MAY-2007 03:05:41	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	27426	No
38	GOM_TRA_1PNPDE20070530_031240_000000462058_00319_27427_5781.N1	30-MAY-2007 03:12:40	Dark	46.000	31	Alp Gru	1.7340	15200.	92	27427	No
39	GOM_TRA_1PNPDE20070530_031746_000000442058_00319_27427_5782.N1	30-MAY-2007 03:17:46	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	27427	No
40	GOM_TRA_1PNPDE20070530_032408_000000442058_00319_27427_5783.N1	30-MAY-2007 03:24:08	Straylight	44.000	141	Bet Ara	2.8400	4600.0	88	27427	No
41	GOM_TRA_1PNPDE20070530_032702_000000462058_00319_27427_5784.N1	30-MAY-2007 03:27:02	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27427	No
42	GOM_TRA_1PNPDE20070530_032851_000000472058_00319_27427_5785.N1	30-MAY-2007 03:28:51	Twilight_stray	46.500	25	35Lam Sco	1.6200	28000.	93	27427	No
43	GOM_TRA_1PNPDE20070530_033042_000000452058_00319_27427_5786.N1	30-MAY-2007 03:30:42	Twilight_stray	45.000	75	26Eps Sco	2.2910	4250.0	90	27427	No
44	GOM_TRA_1PNPDE20070530_033246_000000412058_00319_27427_5787.N1	30-MAY-2007 03:32:46	Bright	40.500	136	23Tau Sco	2.8220	30000.	81	27427	No
45	GOM_TRA_1PNPDE20070530_033540_000000392058_00319_27427_5788.N1	30-MAY-2007 03:35:40	Bright	38.500	97	8Bet1Sco	2.5610	30000.	77	27427	No
46	GOM_TRA_1PNPDE20070530_033823_000000432058_00319_27427_5789.N1	30-MAY-2007 03:38:23	Bright	42.500	98	13Zet Oph	2.5710	30000.	85	27427	No
47	GOM_TRA_1PNPDE20070530_034036_000000402058_00319_27427_5790.N1	30-MAY-2007 03:40:36	Bright	40.000	120	1Del Oph	2.7340	3200.0	80	27427	No
48	GOM_TRA_1PNPDE20070530_034337_000000372058_00319_27427_5791.N1	30-MAY-2007 03:43:37	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	27427	No
49	GOM_TRA_1PNPDE20070530_034931_000000352058_00319_27427_5792.N1	30-MAY-2007 03:49:31	Bright	35.000	83		2.3780	11000.	70	27427	No
50	GOM_TRA_1PNPDE20070530_040016_000000392058_00319_27427_5793.N1	30-MAY-2007 04:00:16	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	27427	No

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



4. Overview of dark signal processing per product

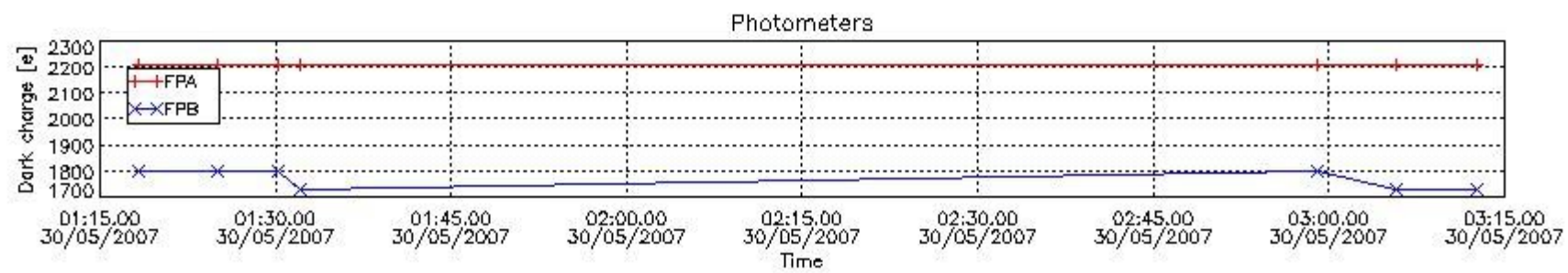
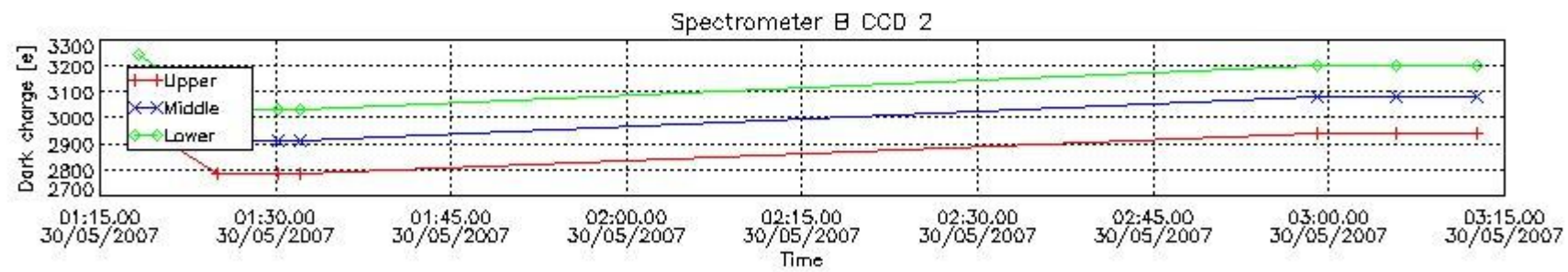
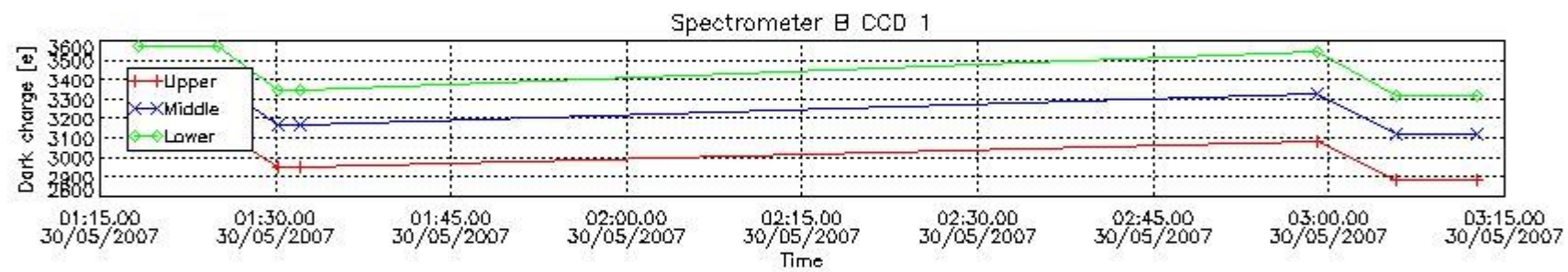
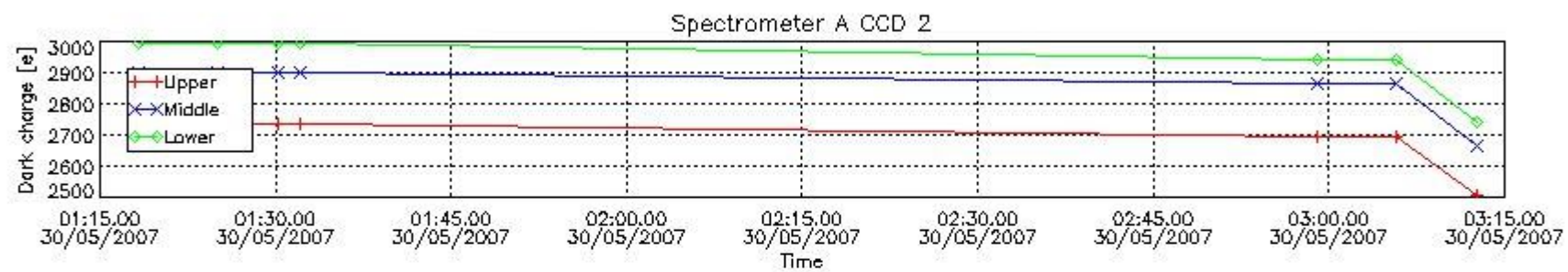
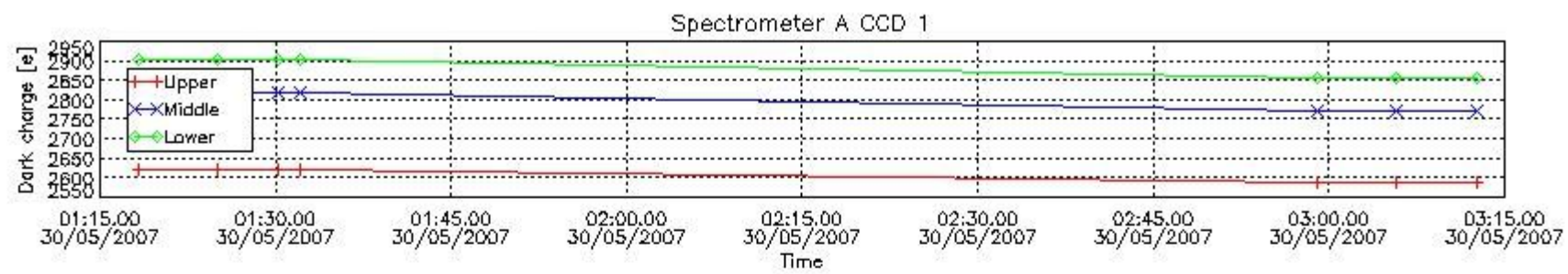
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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



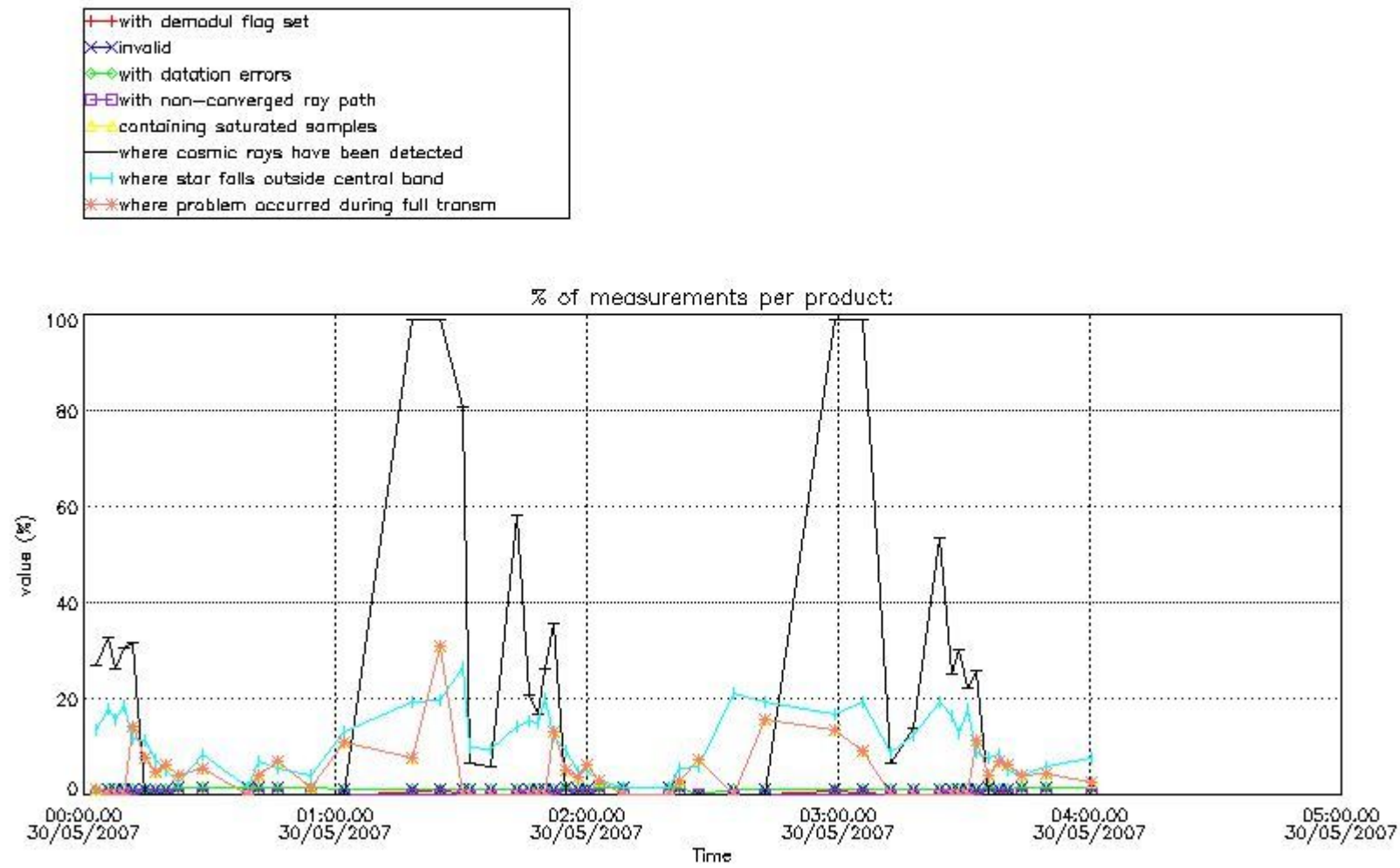
5. Demodulation flag and quality information monitoring

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.

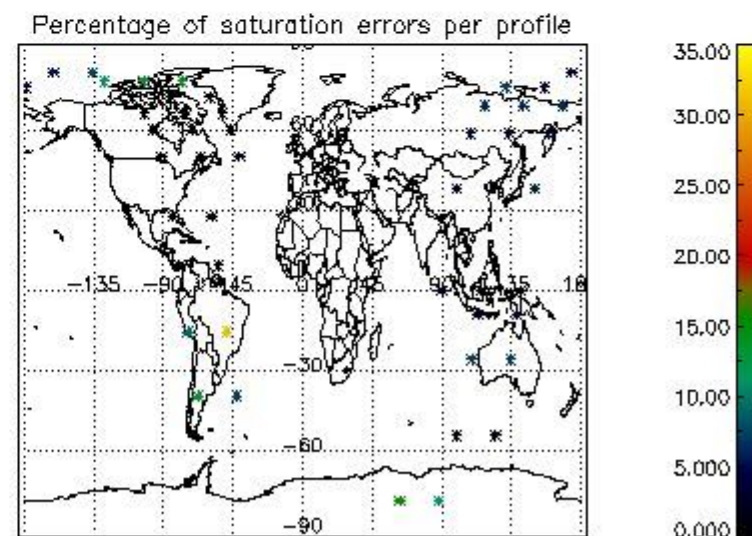
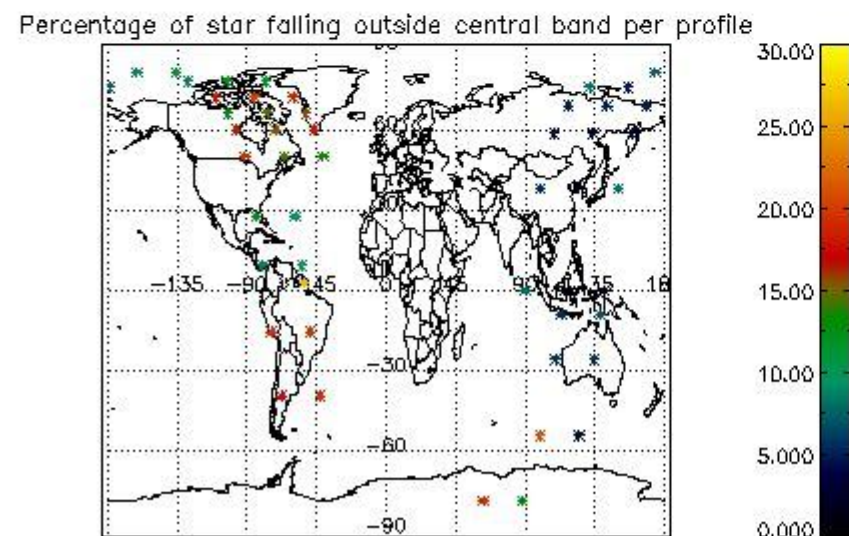
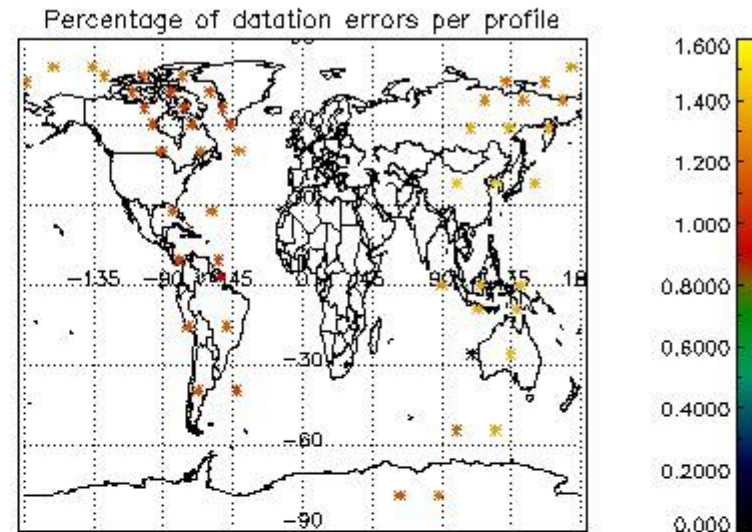
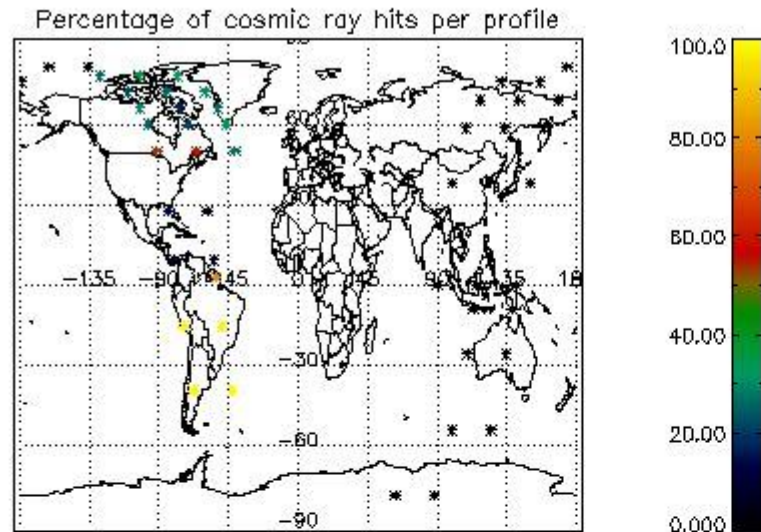
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.0000 %
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)



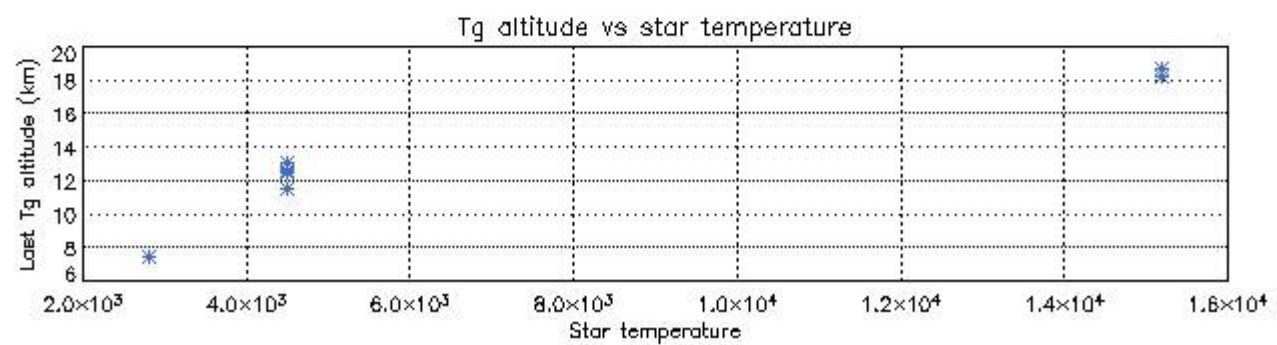
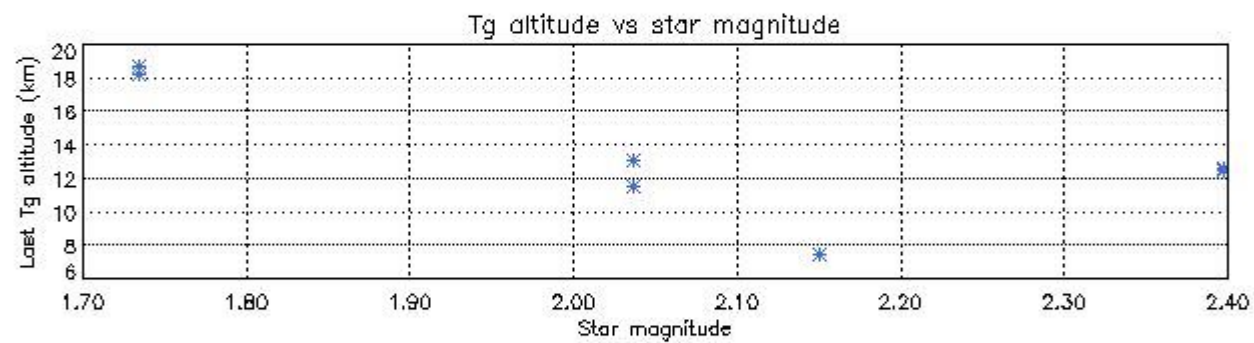
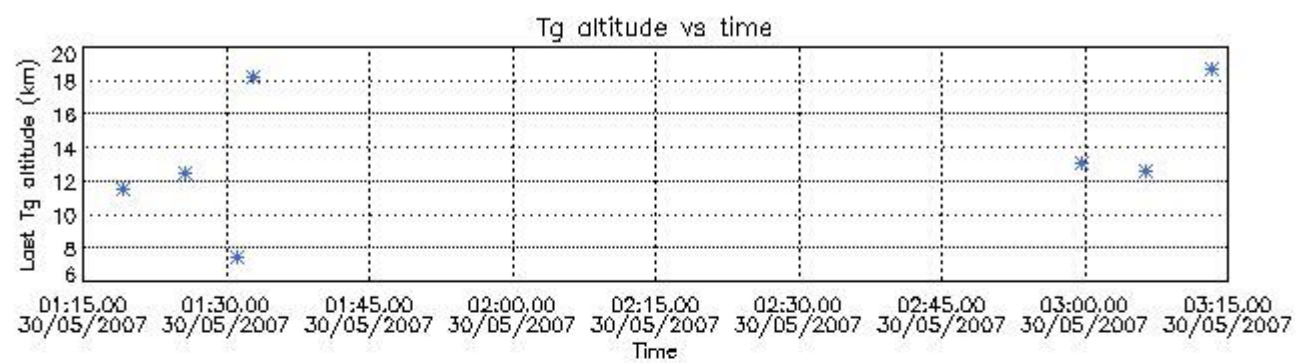
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.425	20.379	NaN
St. deviation:	3.8945	3.2457	NaN
Maximum:	18.704	27.390	NaN
Minimum:	7.4946	12.068	NaN
Number of data:	7.0000	29.000	NaN

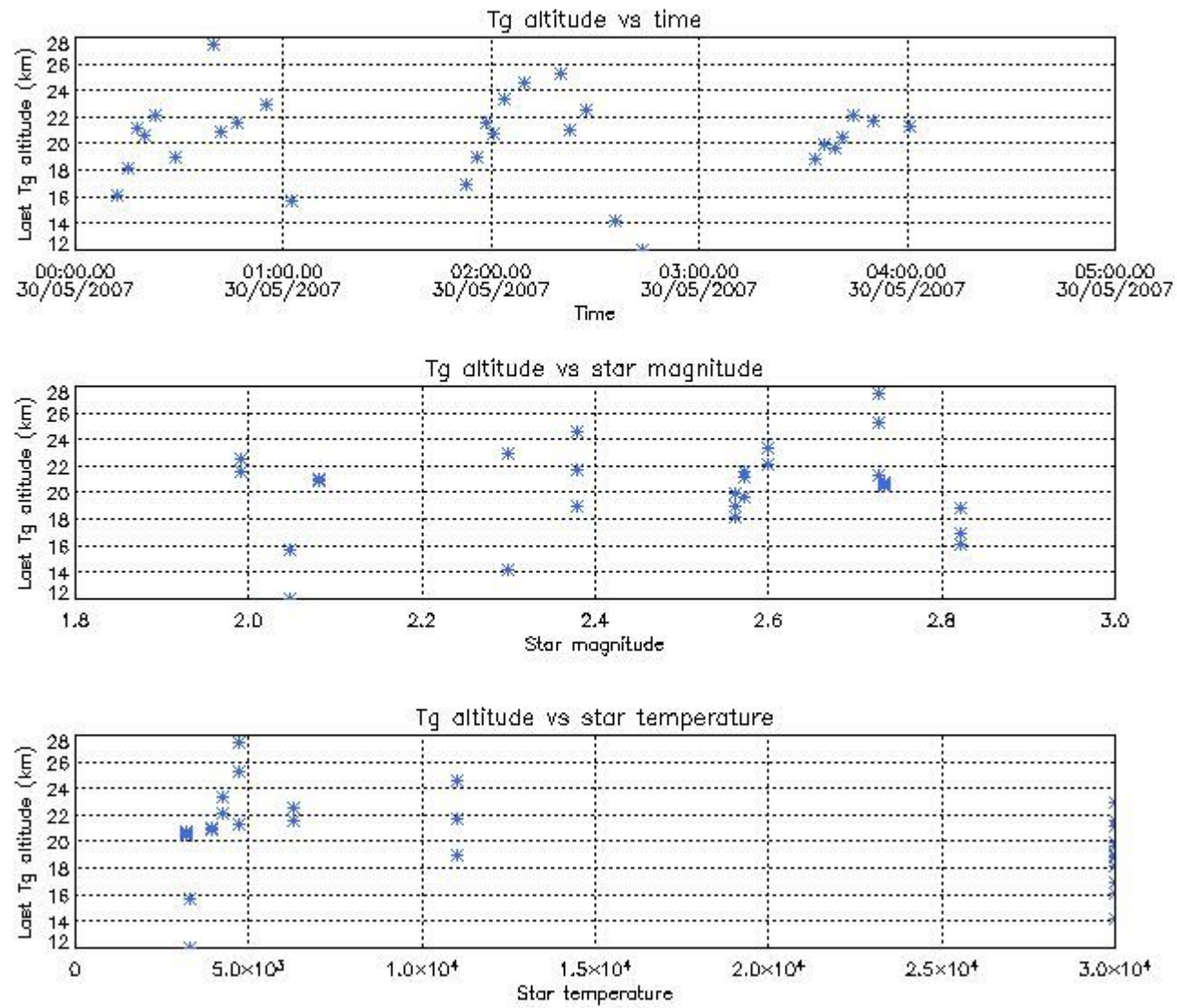
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

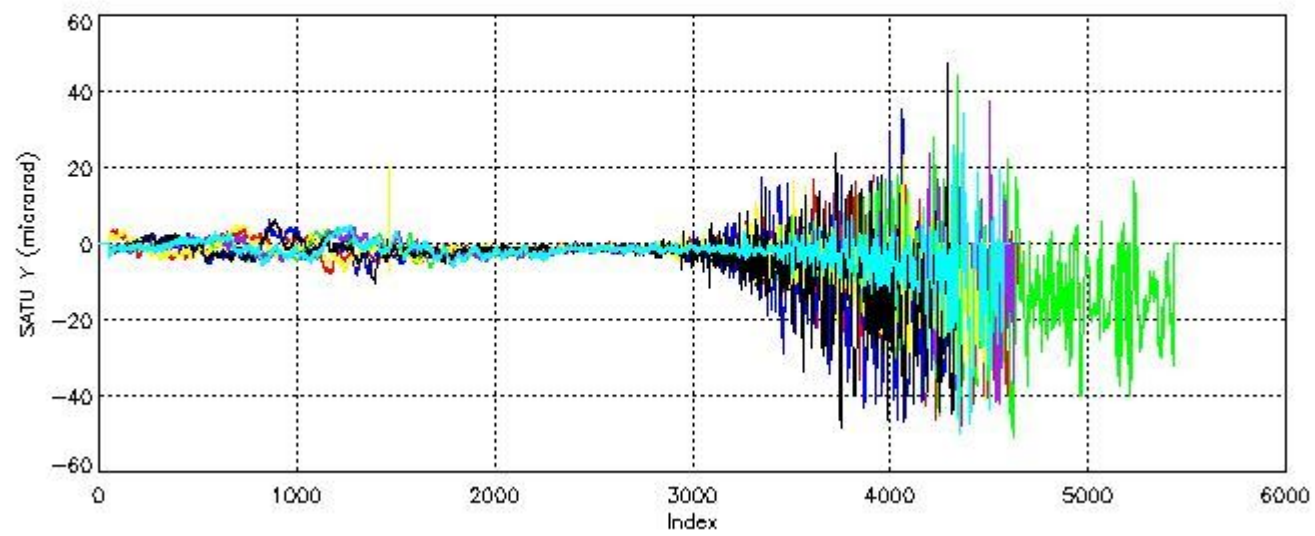
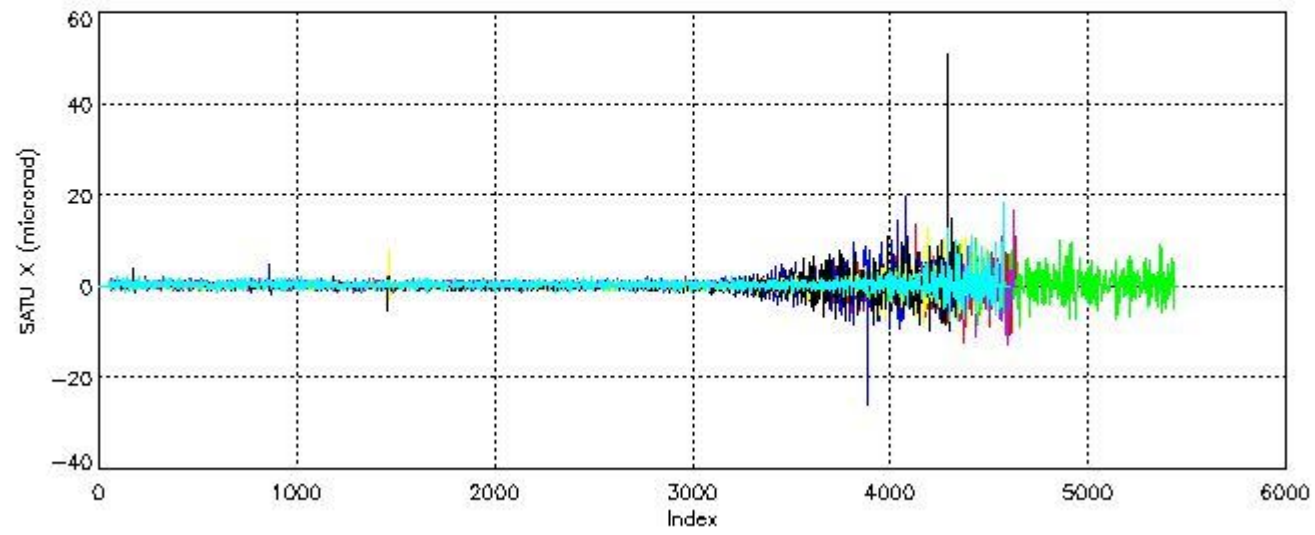


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17065	-0.73536	0.20540	-0.68770
St. deviation:	0.36364	1.9585	0.71640	2.3992
Maximum:	4.9000	6.3000	4.5000	6.7000
Minimum:	-1.9000	-5.8000	-4.6000	-9.4000

Number of data:	7050.0	7050.0	25150.	25150.
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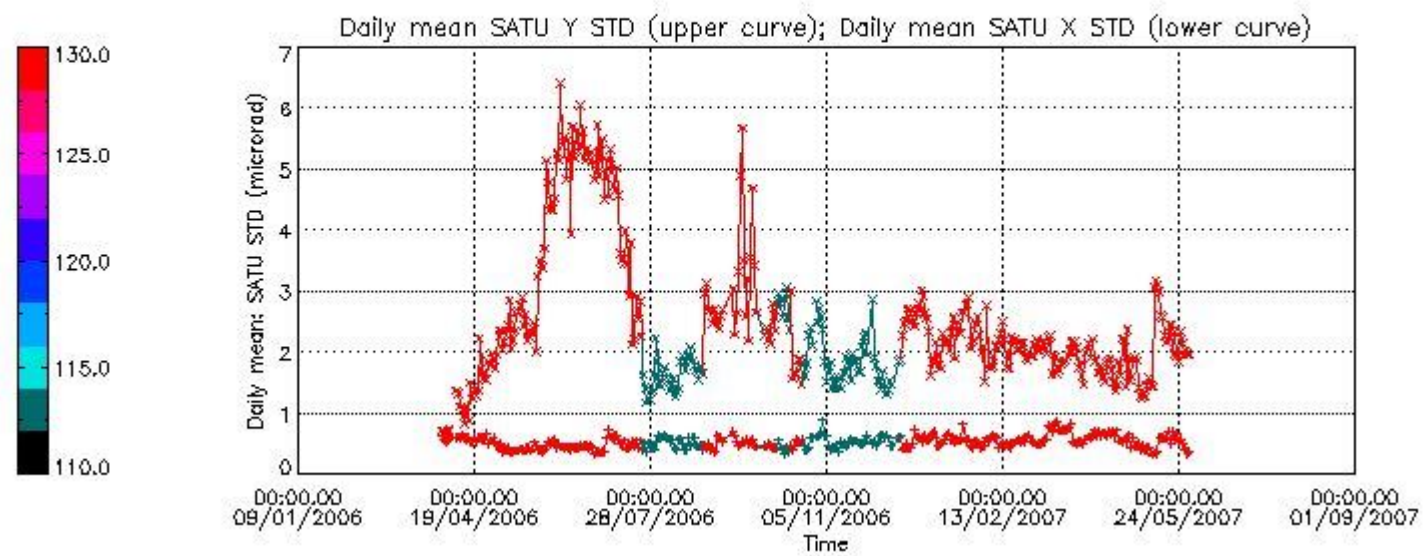
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

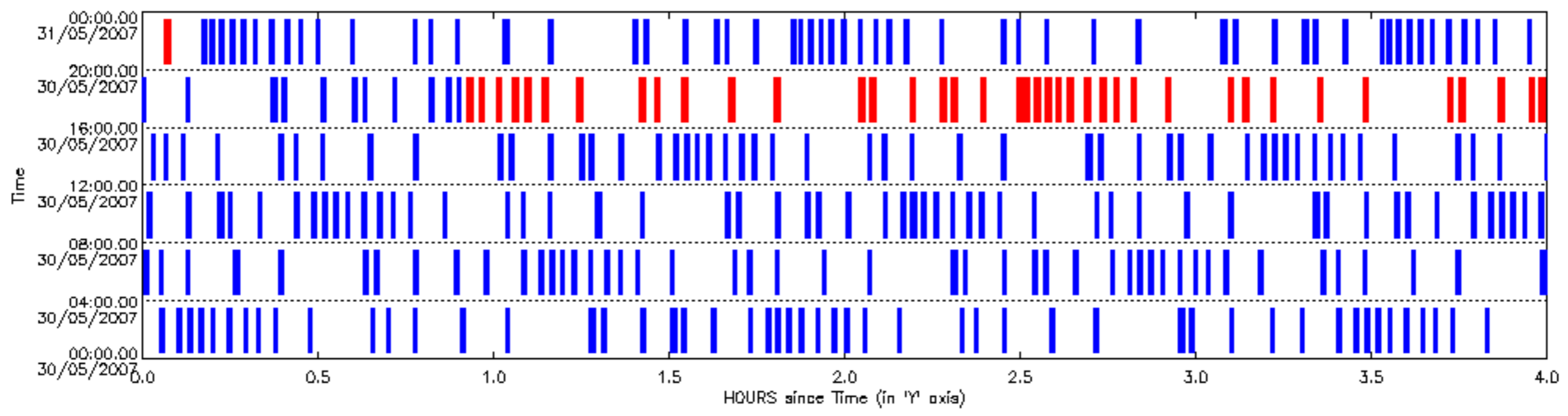
Lower curve: STD of SATU X axis

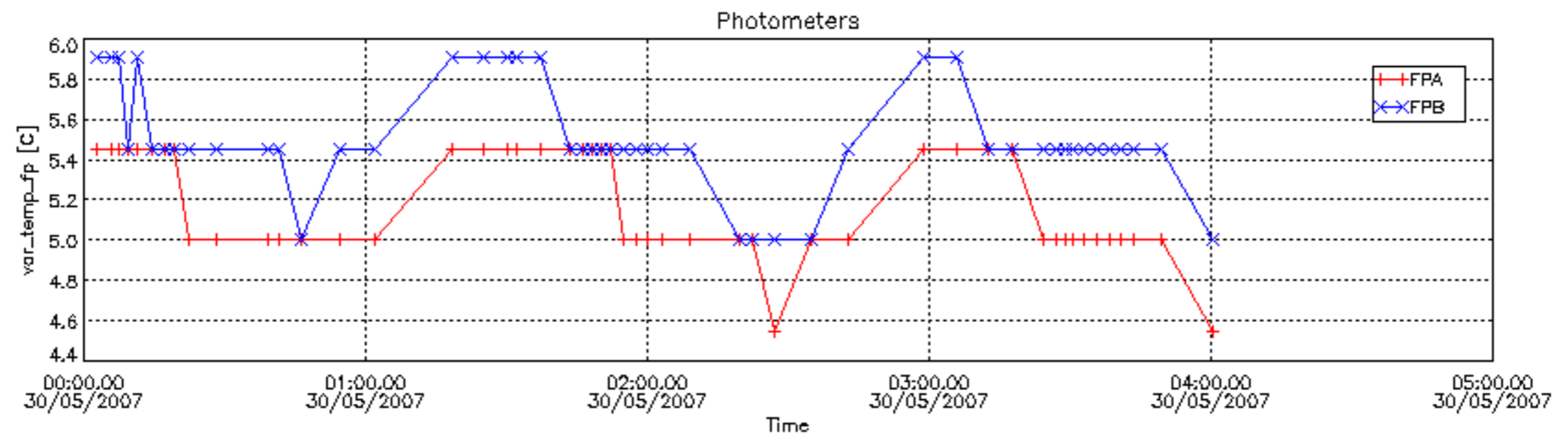
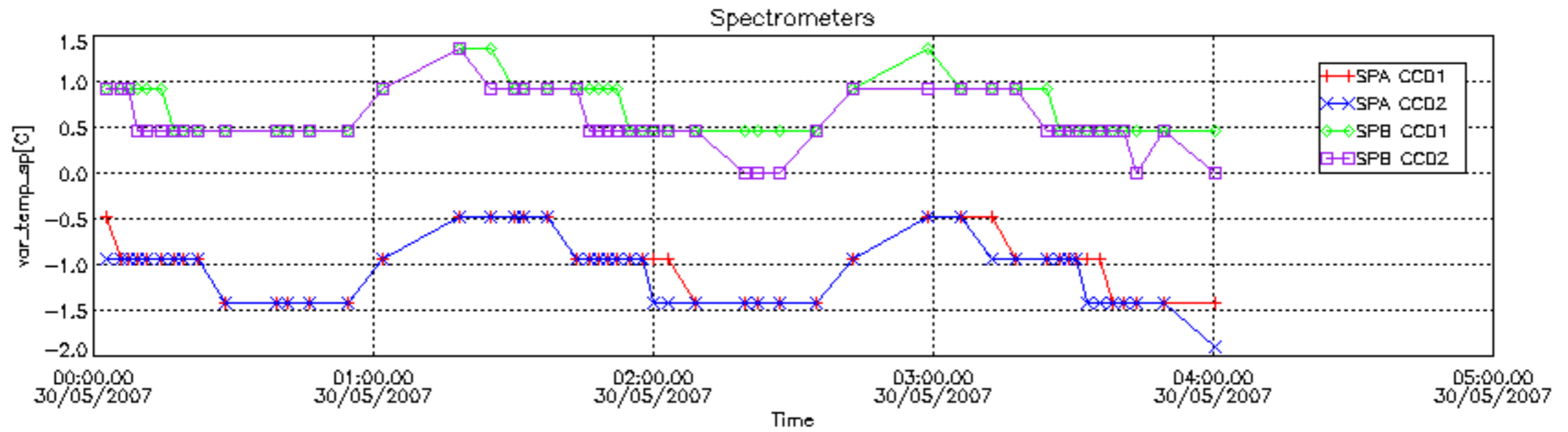


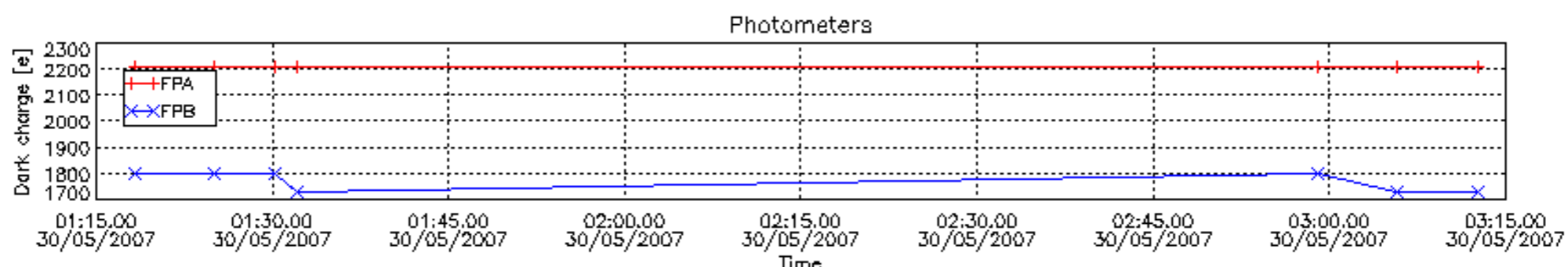
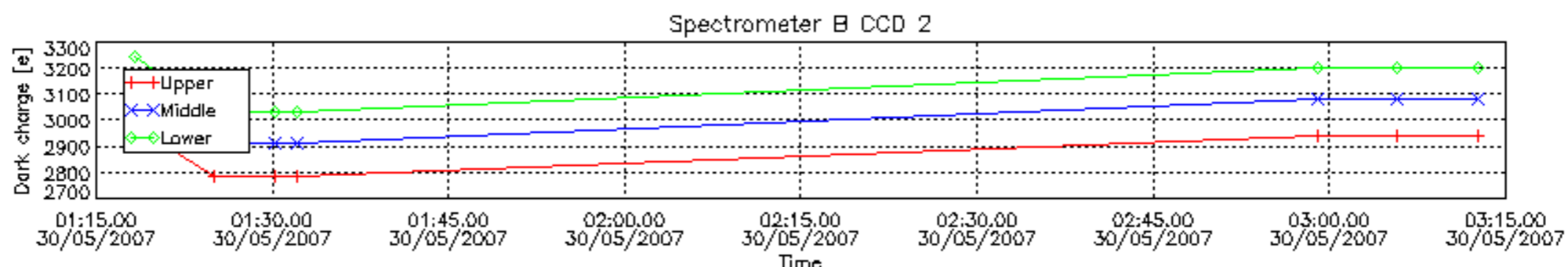
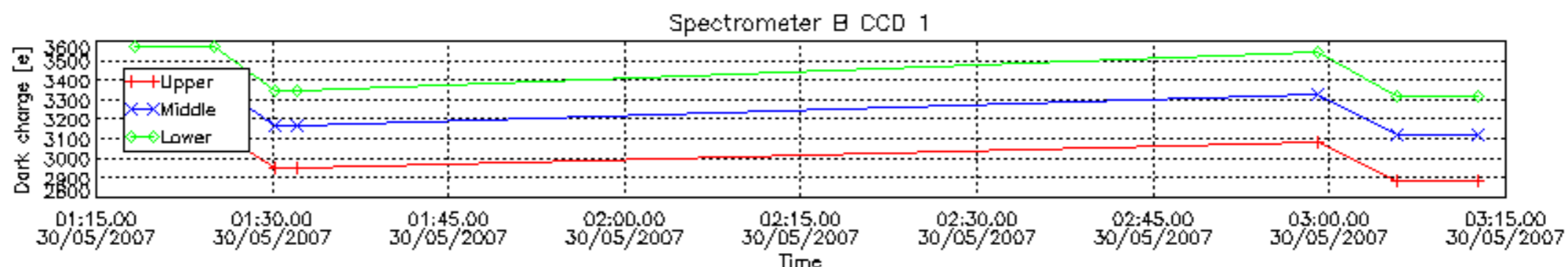
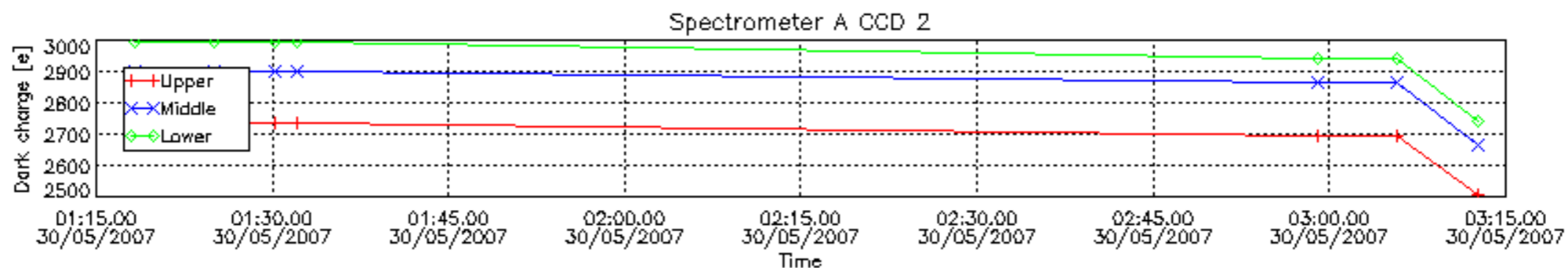
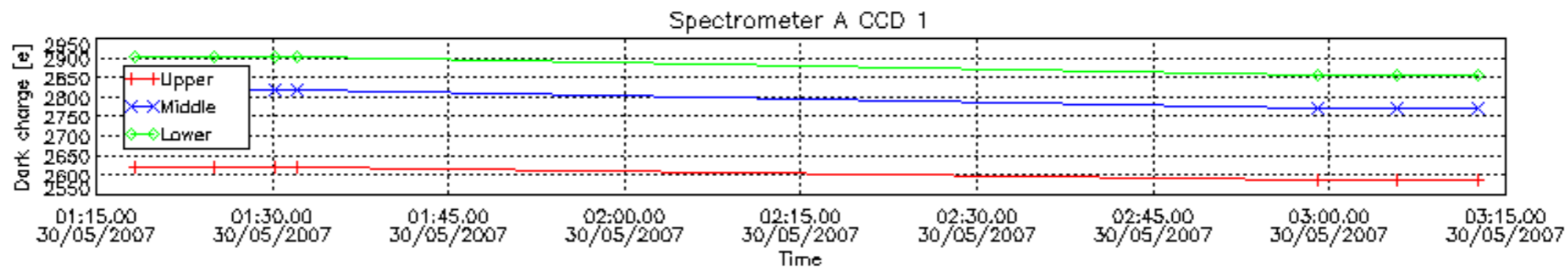
8. Auxiliary Data Files used for the production reported in section 2.4

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.

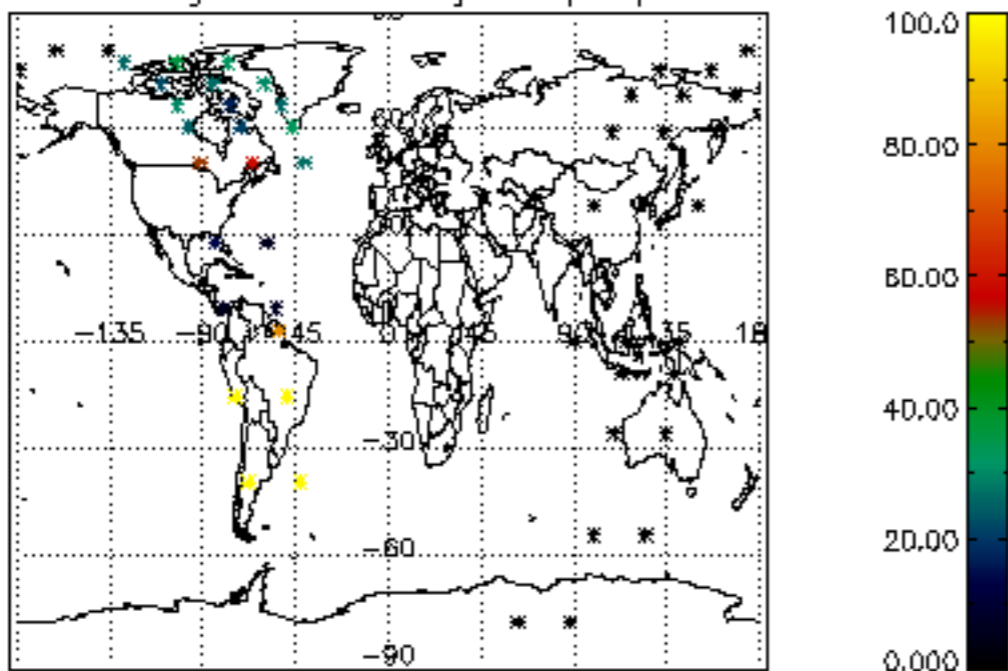
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-MAY-2007 00:02:56
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-MAY-2007 00:02:56
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-MAY-2007 00:02:56
ECMWF_FILE	AUX_ECF_AXNECM20070529_062111_20070529_210000_20070530_090000	1	30-MAY-2007 00:02:56
OPTIONAL_ECMWF_FILE	MISSING	1	30-MAY-2007 00:02:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070529_215154_000057382058_00315_27423_3584.N1	1	30-MAY-2007 00:02:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070529_233251_000057382058_00316_27424_3585.N1	16	30-MAY-2007 01:18:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070530_011348_000041442058_00317_27425_3586.N1	34	30-MAY-2007 02:34:57



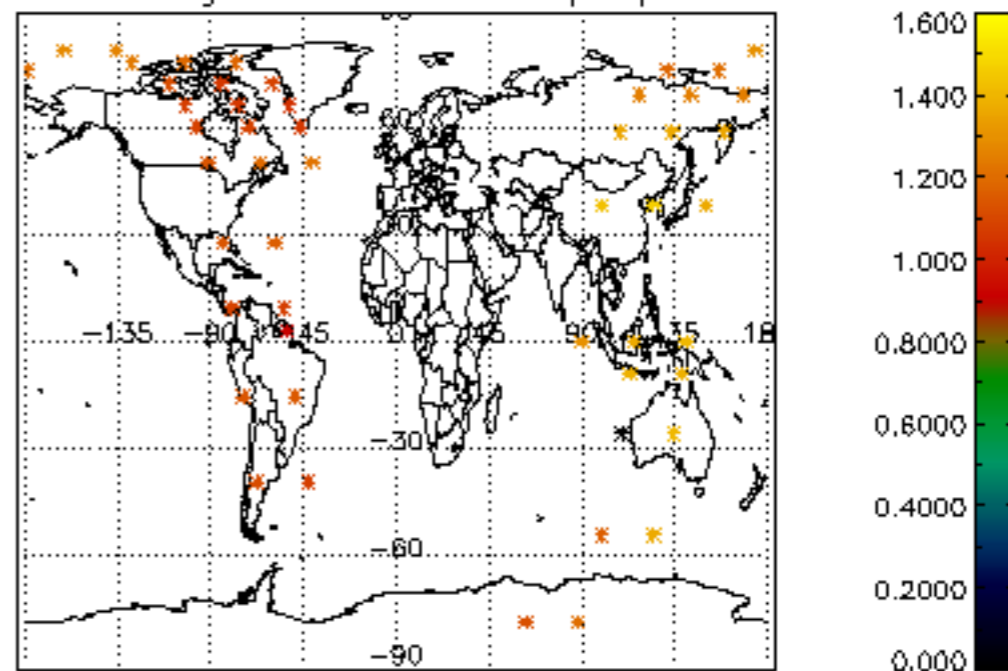




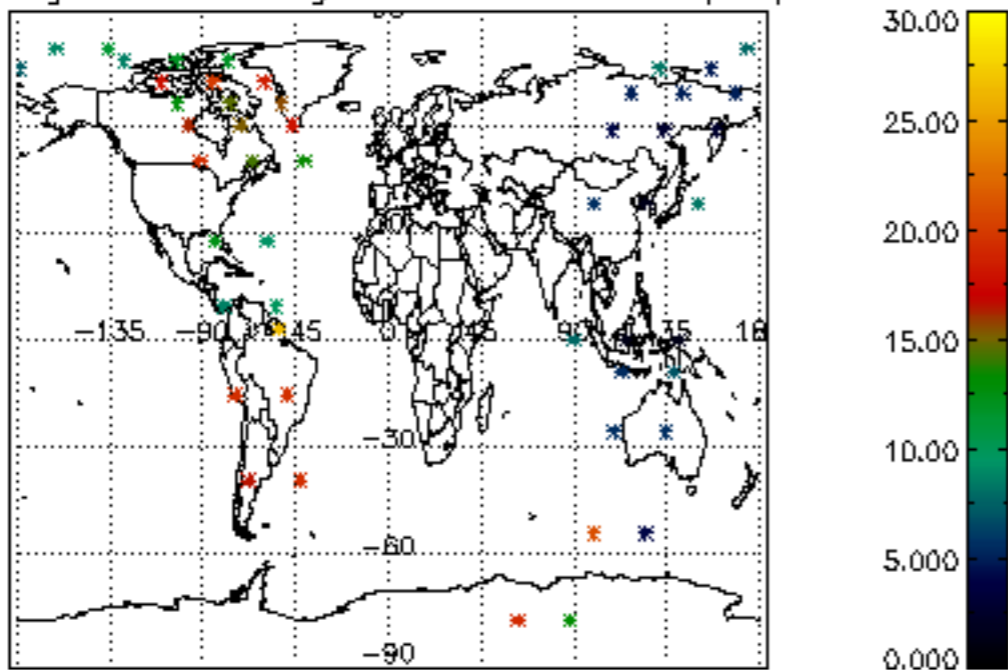
Percentage of cosmic ray hits per profile



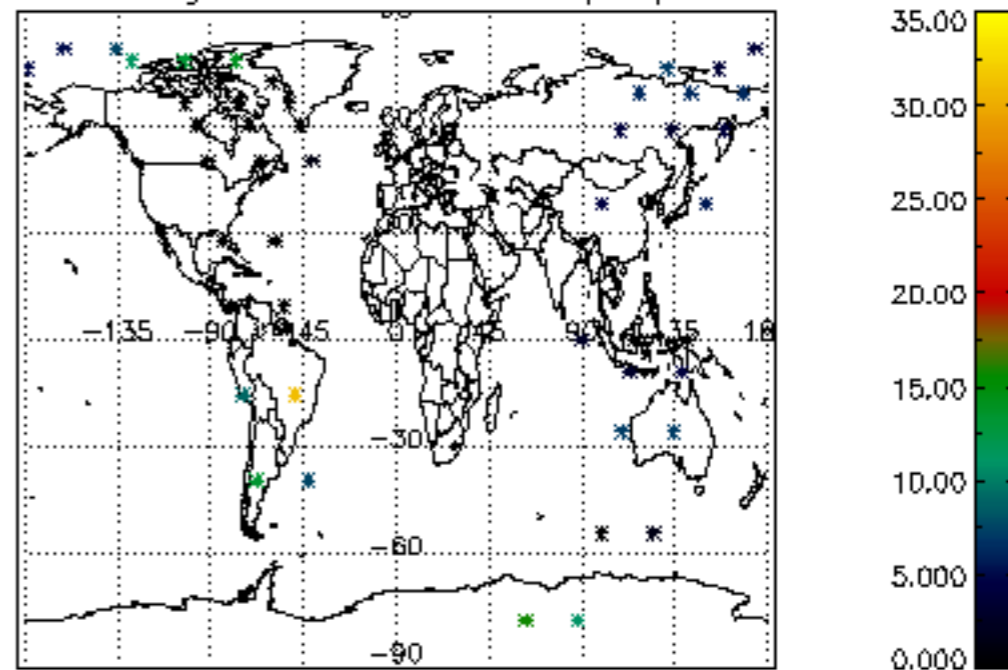
Percentage of datation errors per profile



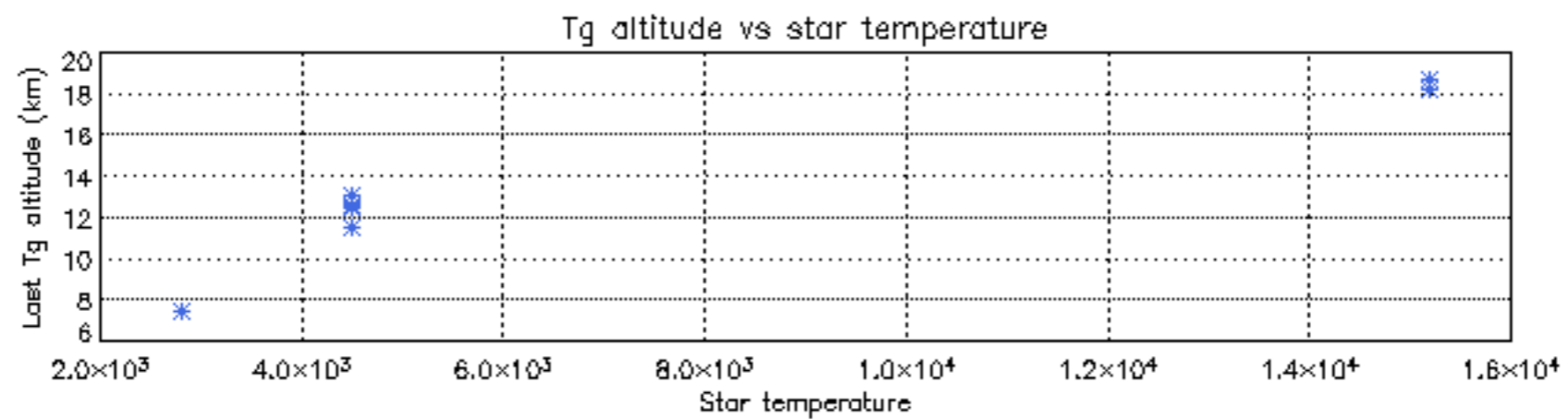
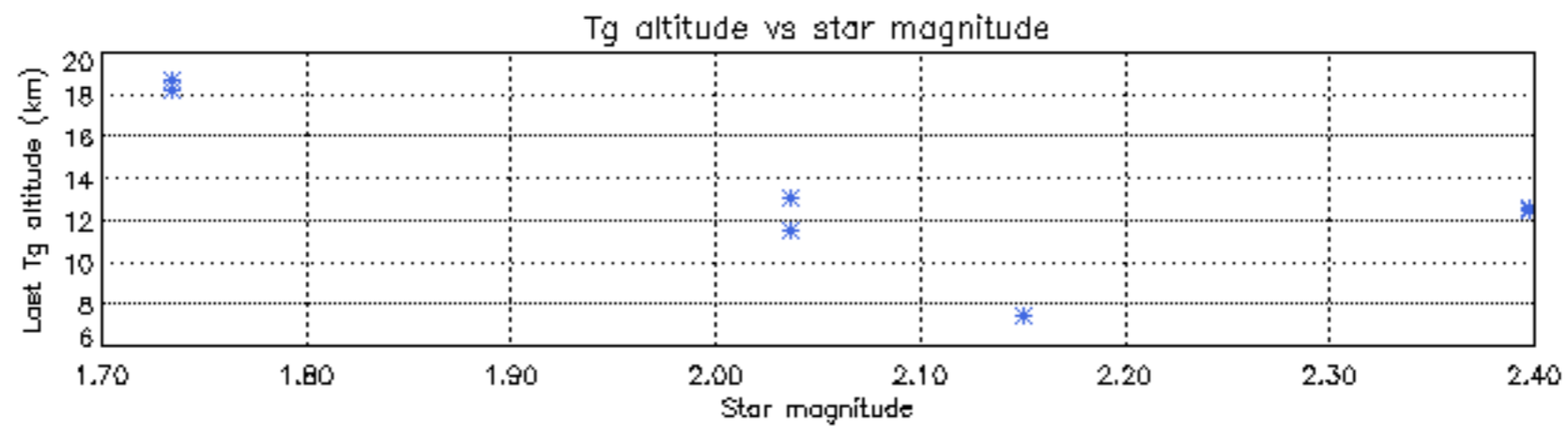
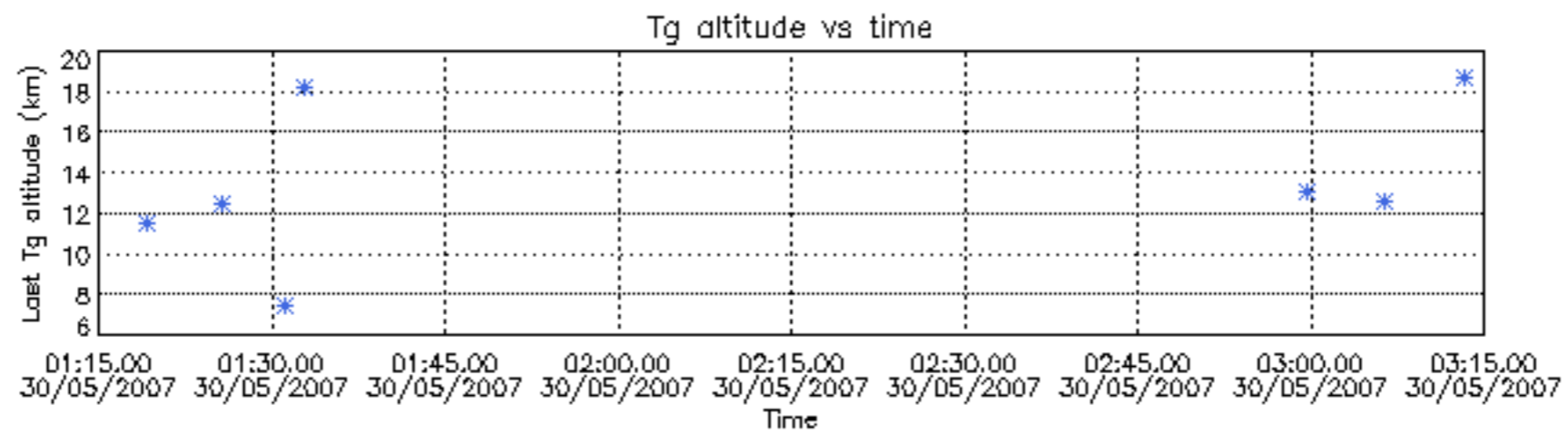
Percentage of star falling outside central band per profile



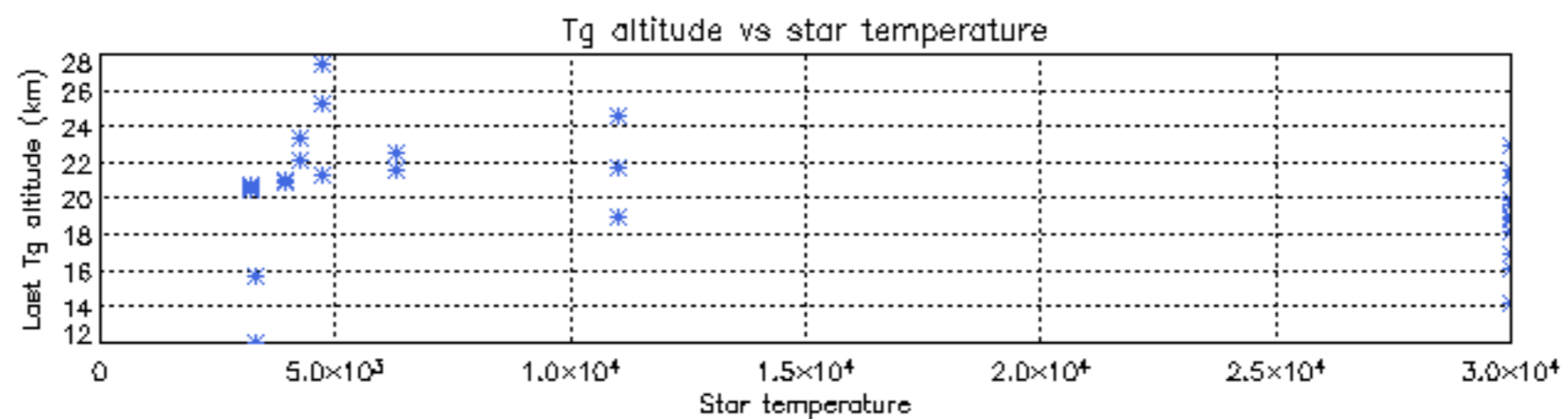
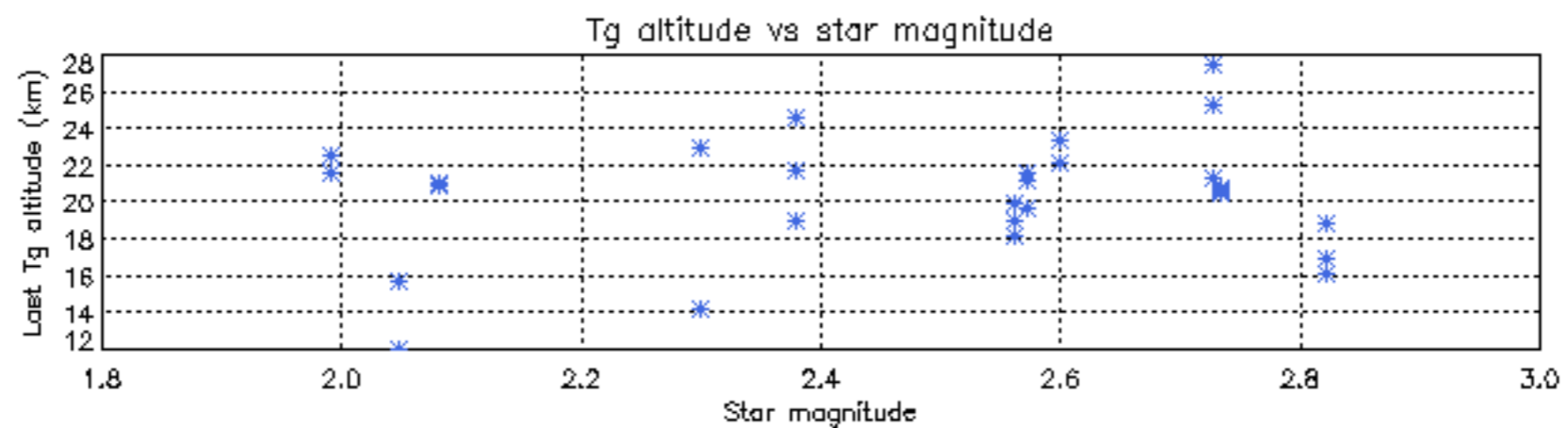
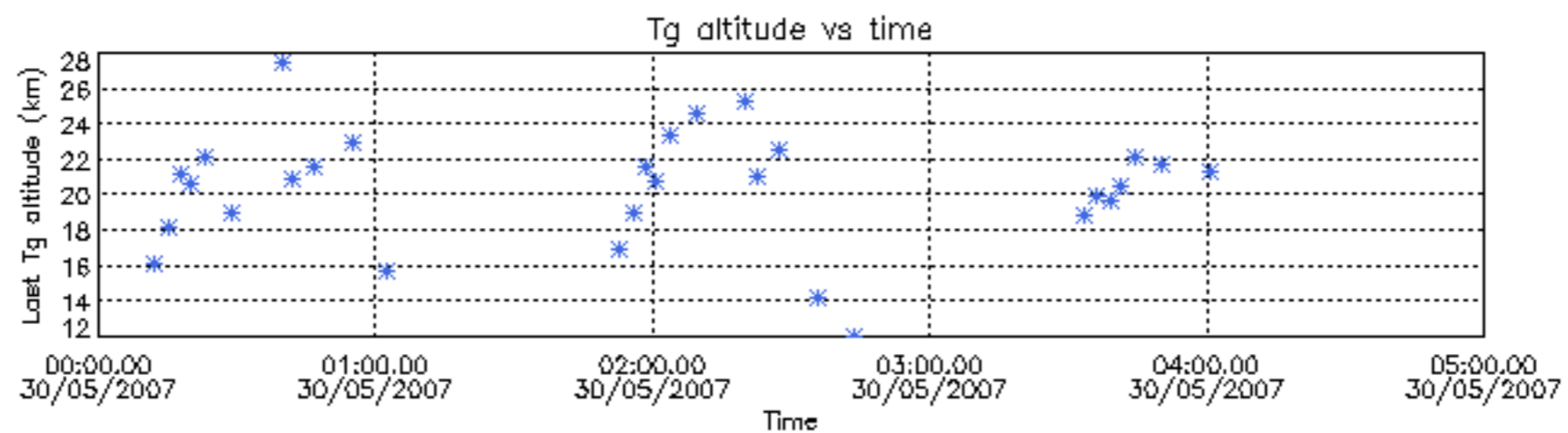
Percentage of saturation errors per profile

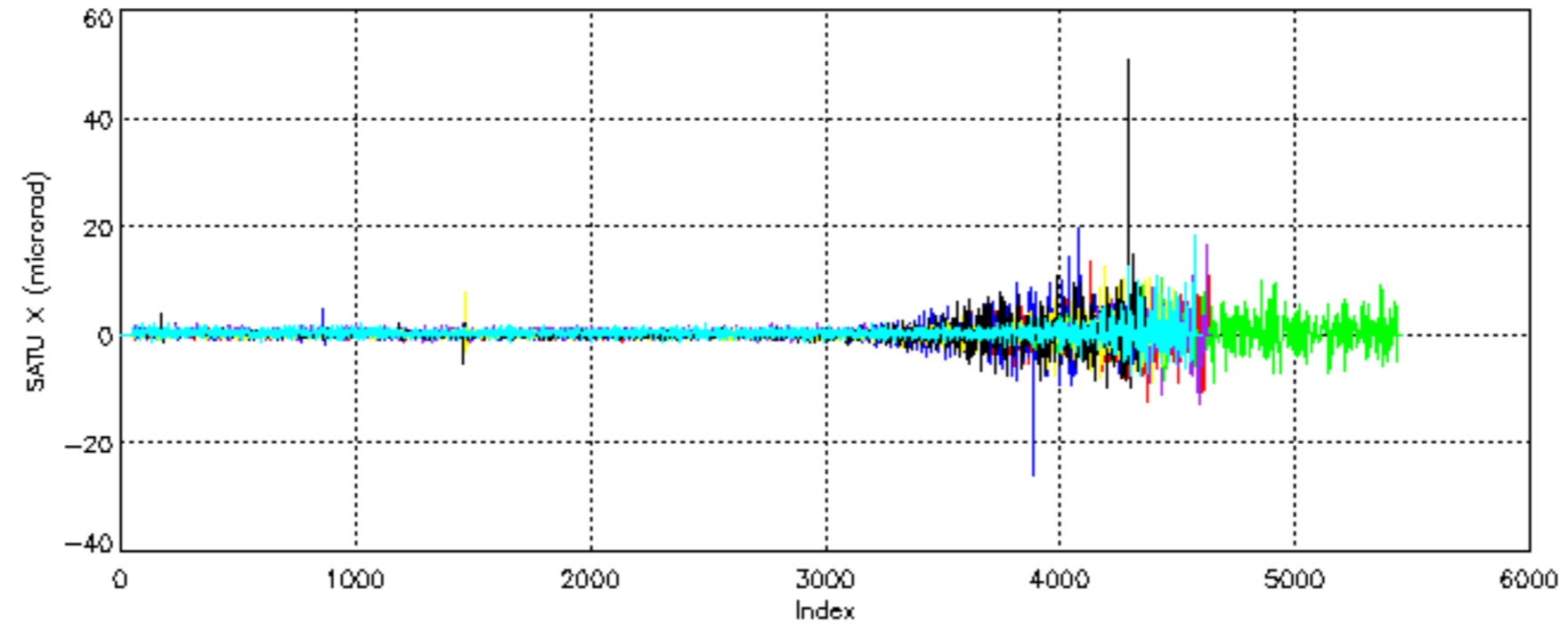


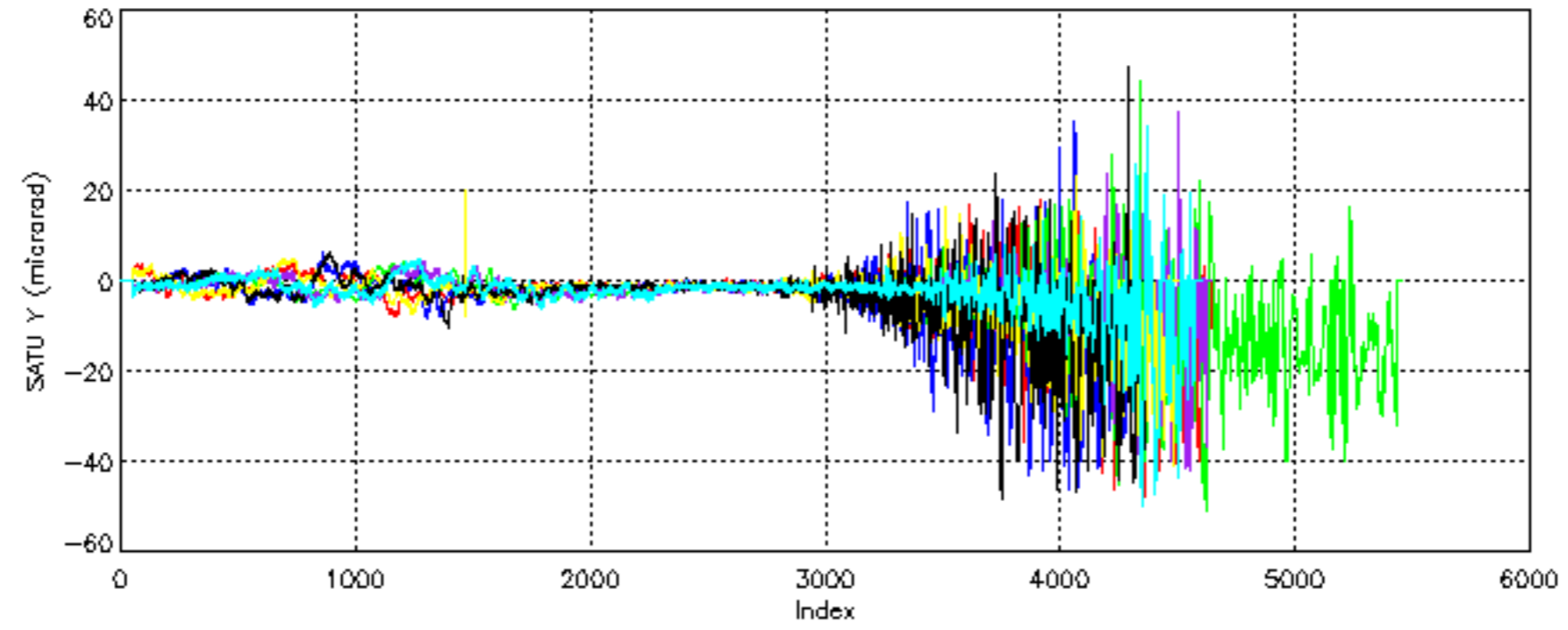
Tangent altitude at which the star is lost

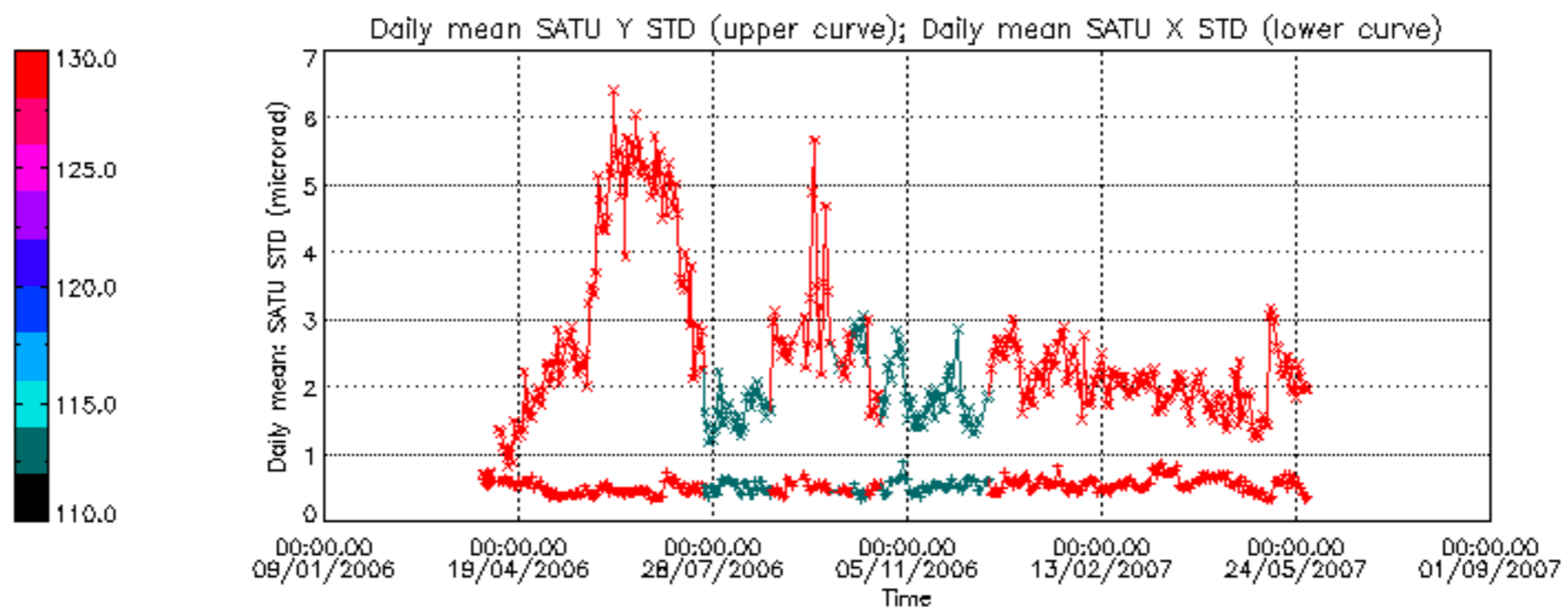


Tangent altitude at which the star is lost









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 18; 2994.8; 01-MAY-2007 02:30:48; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;27011
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4; 1139.4; 03-MAY-2007 12:40:50; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;27046
5; 1263.1; 03-MAY-2007 12:42:54; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;27046
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3; 2926.1; 03-MAY-2007 13:10:37; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;27046
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6; 4003.3; 03-MAY-2007 15:09:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27047
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6; 3060.6; 21-MAY-2007 10:26:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27302
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 5; 2020.3; 26-MAY-2007 15:53:45; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;27377
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6; 1834.4; 31-MAY-2007 16:33:46; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27449
7; 2015.4; 31-MAY-2007 16:36:47; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27449
8; 2370.7; 31-MAY-2007 16:42:42; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27449
9; 3008.2; 31-MAY-2007 16:53:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27449
10; 3166.4; 31-MAY-2007 16:55:58; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27449
11; 3446.9; 31-MAY-2007 17:00:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27449
12; 3930.6; 31-MAY-2007 17:08:42; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27449
13; 4393.4; 31-MAY-2007 17:16:25; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27449
14; 5385.8; 31-MAY-2007 17:32:57; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;27449
15; 5646.7; 31-MAY-2007 17:37:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27449
16; 5788.4; 31-MAY-2007 17:39:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;27449
17; 6104.5; 31-MAY-2007 17:44:56; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;27449
18; 6216.1; 31-MAY-2007 17:46:48; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27449
19; 6517.2; 31-MAY-2007 17:51:49; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27449
20; 6892.2; 31-MAY-2007 17:58:04; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27449
21; 6966.8; 31-MAY-2007 17:59:18; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27449
22; 7067.9; 31-MAY-2007 18:00:59; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27449
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4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
6; 1702.4; 31-MAY-2007 18:12:10; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27450

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8;	2015.3;	31-MAY-2007	18:17:23;	Bright;	36.5;	102;	24Alp Ser	;	2.60;	4250;occ;	73;	0;27450	
9;	2370.5;	31-MAY-2007	18:23:18;	Bright;	37.0;	67;	5Alp CrB	;	2.22;	11000;occ;	74;	0;27450	
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18;	6105.3;	31-MAY-2007	19:25:33;	Dark	;	51.5;	63;	Bet Gru	;	2.15;	2800;occ;	103;	0;27450
19;	6216.9;	31-MAY-2007	19:27:25;	Dark	;	44.5;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;27450
20;	6517.8;	31-MAY-2007	19:32:25;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;27450
21;	6892.5;	31-MAY-2007	19:38:40;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;27450
22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450