

GOMOS Daily Report 03-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	05MAY2007 06:42:00
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (03MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04MAY2007 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)

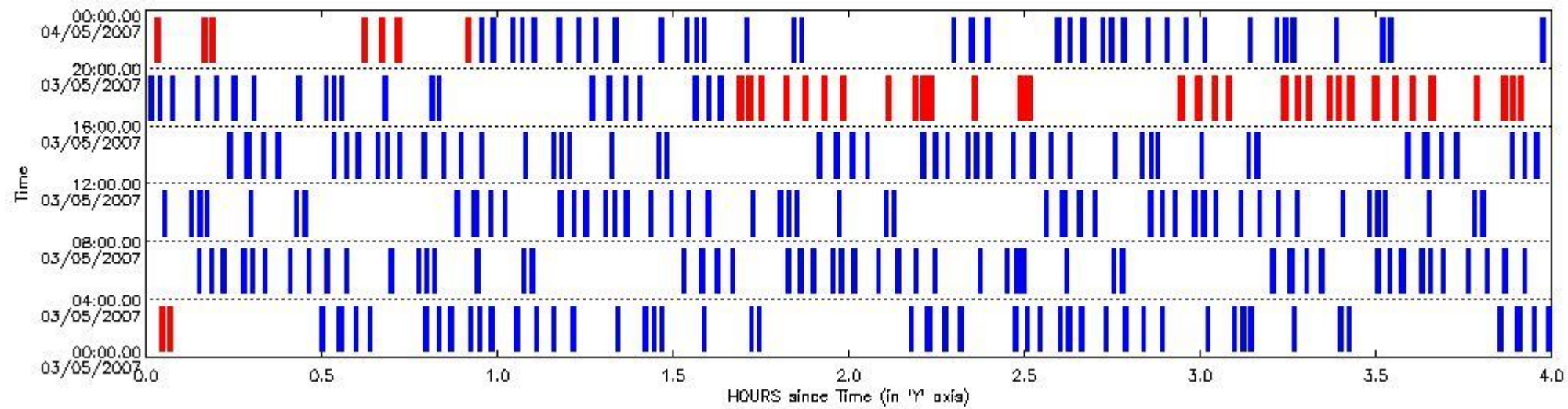
2.1 Level 0 products arrived in PCF (see template [here](#))

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
03-MAY-2007 00:02:19	37DelCas	110	27038
03-MAY-2007 00:03:40	18AlpCas	68	27038
03-MAY-2007 17:41:00	AlpLup	78	27049
03-MAY-2007 17:42:32	EtaCen	81	27049
03-MAY-2007 17:44:36	5TheCen	54	27049
03-MAY-2007 17:48:51	46GamHya	169	27049
03-MAY-2007 17:52:09	67AlpVir	15	27049
03-MAY-2007 17:55:14	29GamVir	121	27049
03-MAY-2007 17:58:30	47EpsVir	138	27049
03-MAY-2007 18:06:12	12Alp2CVn	152	27049
03-MAY-2007 18:10:51	64GamUMa	87	27049
03-MAY-2007 18:12:19	48BetUMa	82	27049
03-MAY-2007 18:13:36	50AlpUMa	36	27049
03-MAY-2007 18:20:57	1AlpUMi	49	27049
03-MAY-2007 18:28:55	37DelCas	110	27049

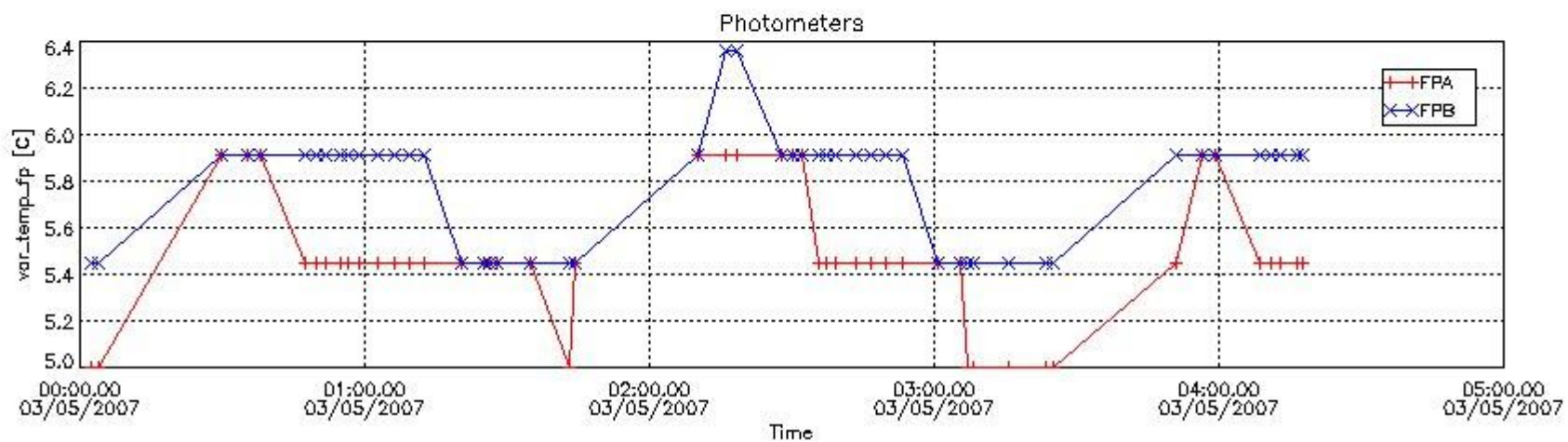
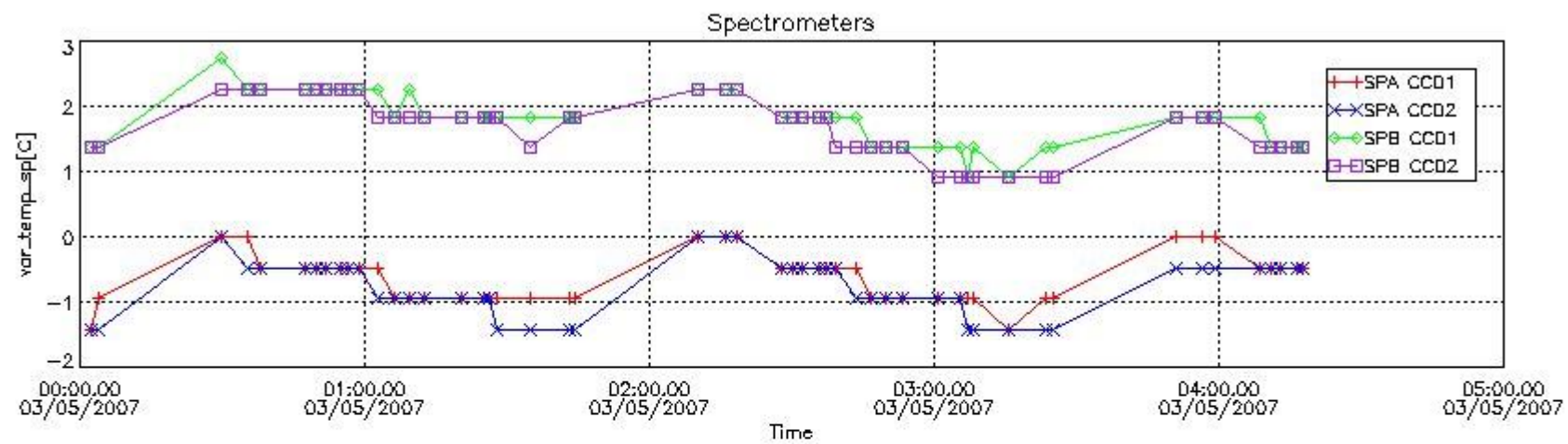
03-MAY-2007 18:30:16	18AlpCas	68	27049
03-MAY-2007 18:56:12	24AlpPsA	18	27049
03-MAY-2007 18:59:05	DSA1035	0	27049
03-MAY-2007 19:02:00	AlpGru	31	27049
03-MAY-2007 19:04:30	AlpTuc	148	27050
03-MAY-2007 19:13:57	AlpTrA	43	27050
03-MAY-2007 19:16:09	BetTrA	134	27050
03-MAY-2007 19:18:10	Alp1Cen	4	27050
03-MAY-2007 19:21:36	AlpLup	78	27050
03-MAY-2007 19:23:09	EtaCen	81	27050
03-MAY-2007 19:25:12	5TheCen	54	27050
03-MAY-2007 19:29:27	46GamHya	169	27050
03-MAY-2007 19:32:45	67AlpVir	15	27050
03-MAY-2007 19:35:50	29GamVir	121	27050
03-MAY-2007 19:39:06	47EpsVir	138	27050
03-MAY-2007 19:46:48	12Alp2CVn	152	27050
03-MAY-2007 19:51:27	64GamUMa	87	27050
03-MAY-2007 19:52:55	48BetUMa	82	27050
03-MAY-2007 19:54:13	50AlpUMa	36	27050
03-MAY-2007 20:01:33	1AlpUMi	49	27050
03-MAY-2007 20:09:31	37DelCas	110	27050
03-MAY-2007 20:10:52	18AlpCas	68	27050
03-MAY-2007 20:36:48	24AlpPsA	18	27050
03-MAY-2007 20:39:41	DSA1035	0	27050
03-MAY-2007 20:42:36	AlpGru	31	27050
03-MAY-2007 20:54:34	AlpTrA	43	27051

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_1PNPDE20070503_000225_000000382057_00431_27038_6179.N1	03-MAY-2007 00:02:25	Bright	37.500	110	37Del Cas	2.6780	8900.0	75	27038	No
2	GOM_TRA_1PNPDE20070503_000346_000000342057_00431_27038_6180.N1	03-MAY-2007 00:03:46	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	27038	No
3	GOM_TRA_1PNPDE20070503_002937_000000472057_00431_27038_6312.N1	03-MAY-2007 00:29:37	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	27038	No
4	GOM_TRA_1PNPDE20070503_003524_000000412057_00431_27038_6313.N1	03-MAY-2007 00:35:24	Dark	40.500	31	Alp Gru	1.7340	15200.	81	27038	No
5	GOM_TRA_1PNPDE20070503_003757_000000392057_00432_27039_6314.N1	03-MAY-2007 00:37:57	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	27039	No
6	GOM_TRA_1PNPDE20070503_004724_000000492057_00432_27039_6315.N1	03-MAY-2007 00:47:24	Straylight	49.000	43	Alp TrA	1.9100	4250.0	98	27039	No
7	GOM_TRA_1PNPDE20070503_004936_000000382057_00432_27039_6316.N1	03-MAY-2007 00:49:36	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	27039	No
8	GOM_TRA_1PNPDE20070503_005138_000000482057_00432_27039_6317.N1	03-MAY-2007 00:51:38	Straylight	48.000	4	Alp1Cen	-0.010000	5800.0	96	27039	No
9	GOM_TRA_1PNPDE20070503_005504_000000412057_00432_27039_6318.N1	03-MAY-2007 00:55:04	Straylight	40.500	78	Alp Lup	2.3040	28000.	81	27039	No
10	GOM_TRA_1PNPDE20070503_005636_000000402057_00432_27039_6319.N1	03-MAY-2007 00:56:36	Straylight	40.000	81	Eta Cen	2.3560	28000.	80	27039	No
11	GOM_TRA_1PNPDE20070503_005840_000000442057_00432_27039_6320.N1	03-MAY-2007 00:58:40	Twilight_stray	44.000	54	5The Cen	2.0550	4500.0	88	27039	No
12	GOM_TRA_1PNPDE20070503_010256_000000392057_00432_27039_6321.N1	03-MAY-2007 01:02:56	Bright	38.500	169	46Gam Hya	2.9910	4700.0	77	27039	No
13	GOM_TRA_1PNPDE20070503_010614_000000382057_00432_27039_6322.N1	03-MAY-2007 01:06:14	Bright	38.000	15	67Alp Vir	0.97600	28000.	76	27039	No
14	GOM_TRA_1PNPDE20070503_010920_000000362057_00432_27039_6323.N1	03-MAY-2007 01:09:20	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	27039	No
15	GOM_TRA_1PNPDE20070503_011237_000000352057_00432_27039_6324.N1	03-MAY-2007 01:12:37	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	27039	No
16	GOM_TRA_1PNPDE20070503_012019_000000352057_00432_27039_6325.N1	03-MAY-2007 01:20:19	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	27039	No
17	GOM_TRA_1PNPDE20070503_012456_000000372057_00432_27039_6326.N1	03-MAY-2007 01:24:56	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	27039	No
18	GOM_TRA_1PNPDE20070503_012623_000000352057_00432_27039_6327.N1	03-MAY-2007 01:26:23	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	27039	No
19	GOM_TRA_1PNPDE20070503_012741_000000372057_00432_27039_6328.N1	03-MAY-2007 01:27:41	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	27039	No
20	GOM_TRA_1PNPDE20070503_013504_000000332057_00432_27039_6329.N1	03-MAY-2007 01:35:04	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27039	No
21	GOM_TRA_1PNPDE20070503_014301_000000342057_00432_27039_6330.N1	03-MAY-2007 01:43:01	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	27039	No
22	GOM_TRA_1PNPDE20070503_014422_000000392057_00432_27039_6331.N1	03-MAY-2007 01:44:22	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	27039	No
23	GOM_TRA_1PNPDE20070503_021013_000000472057_00432_27039_6448.N1	03-MAY-2007 02:10:13	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	27039	No
24	GOM_TRA_1PNPDE20070503_021601_000000402057_00432_27039_6449.N1	03-MAY-2007 02:16:01	Dark	40.000	31	Alp Gru	1.7340	15200.	80	27039	No
25	GOM_TRA_1PNPDE20070503_021833_000000472057_00433_27040_6450.N1	03-MAY-2007 02:18:33	Dark	47.000	148	Alp Tuc	2.8780	4100.0	94	27040	No
26	GOM_TRA_1PNPDE20070503_022801_000000482057_00433_27040_6451.N1	03-MAY-2007 02:28:01	Straylight	47.500	43	Alp TrA	1.9100	4250.0	95	27040	No
27	GOM_TRA_1PNPDE20070503_023013_000000382057_00433_27040_6452.N1	03-MAY-2007 02:30:13	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	27040	No
28	GOM_TRA_1PNPDE20070503_023214_000000422057_00433_27040_6453.N1	03-MAY-2007 02:32:14	Straylight	41.500	4	Alp1Cen	-0.010000	5800.0	83	27040	No

29	GOM_TRA_1PNPDE20070503_023540_000000382057_00433_27040_6454.N1	03-MAY-2007 02:35:40	Straylight	37.500	78	Alp Lup	2.3040	28000.	75	27040	No
30	GOM_TRA_1PNPDE20070503_023713_000000402057_00433_27040_6455.N1	03-MAY-2007 02:37:13	Straylight	39.500	81	Eta Cen	2.3560	28000.	79	27040	No
31	GOM_TRA_1PNPDE20070503_023917_000000422057_00433_27040_6456.N1	03-MAY-2007 02:39:17	Twilight_stray	41.500	54	5The Cen	2.0550	4500.0	83	27040	No
32	GOM_TRA_1PNPDE20070503_024332_000000392057_00433_27040_6457.N1	03-MAY-2007 02:43:32	Bright	38.500	169	46Gam Hya	2.9910	4700.0	77	27040	No
33	GOM_TRA_1PNPDE20070503_024650_000000382057_00433_27040_6458.N1	03-MAY-2007 02:46:50	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	27040	No
34	GOM_TRA_1PNPDE20070503_024956_000000362057_00433_27040_6459.N1	03-MAY-2007 02:49:56	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	27040	No
35	GOM_TRA_1PNPDE20070503_025313_000000352057_00433_27040_6460.N1	03-MAY-2007 02:53:13	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	27040	No
36	GOM_TRA_1PNPDE20070503_030055_000000352057_00433_27040_6461.N1	03-MAY-2007 03:00:55	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	27040	No
37	GOM_TRA_1PNPDE20070503_030532_000000342057_00433_27040_6462.N1	03-MAY-2007 03:05:32	Bright	33.500	87	64Gam UMa	2.4330	11000.	67	27040	No
38	GOM_TRA_1PNPDE20070503_030659_000000352057_00433_27040_6463.N1	03-MAY-2007 03:06:59	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	27040	No
39	GOM_TRA_1PNPDE20070503_030817_000000372057_00433_27040_6464.N1	03-MAY-2007 03:08:17	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	27040	No
40	GOM_TRA_1PNPDE20070503_031540_000000322057_00433_27040_6465.N1	03-MAY-2007 03:15:40	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	27040	No
41	GOM_TRA_1PNPDE20070503_032337_000000342057_00433_27040_6629.N1	03-MAY-2007 03:23:37	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	27040	No
42	GOM_TRA_1PNPDE20070503_032458_000000342057_00433_27040_6630.N1	03-MAY-2007 03:24:58	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	27040	No
43	GOM_TRA_1PNPDE20070503_035050_000000462057_00433_27040_6631.N1	03-MAY-2007 03:50:50	Dark	45.500	18	24Alp PsA	1.1660	9700.0	91	27040	No
44	GOM_TRA_1PNPDE20070503_035637_000000402057_00433_27040_6632.N1	03-MAY-2007 03:56:37	Dark	40.000	31	Alp Gru	1.7340	15200.	80	27040	No
45	GOM_TRA_1PNPDE20070503_035910_000000382057_00434_27041_6633.N1	03-MAY-2007 03:59:10	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	27041	No
46	GOM_TRA_1PNPDE20070503_040837_000000392057_00434_27041_6634.N1	03-MAY-2007 04:08:37	Straylight	38.500	43	Alp TrA	1.9100	4250.0	77	27041	No
47	GOM_TRA_1PNPDE20070503_041049_000000402057_00434_27041_6635.N1	03-MAY-2007 04:10:49	Straylight	39.500	134	Bet TrA	2.8100	6600.0	79	27041	No
48	GOM_TRA_1PNPDE20070503_041250_000000422057_00434_27041_6636.N1	03-MAY-2007 04:12:50	Straylight	42.000	4	Alp1Cen	-0.010000	5800.0	84	27041	No
49	GOM_TRA_1PNPDE20070503_041617_000000402057_00434_27041_6637.N1	03-MAY-2007 04:16:17	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	27041	No
50	GOM_TRA_1PNPDE20070503_041749_000000402057_00434_27041_6638.N1	03-MAY-2007 04:17:49	Straylight	40.000	81	Eta Cen	2.3560	28000.	80	27041	No

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



4. Overview of dark signal processing per product

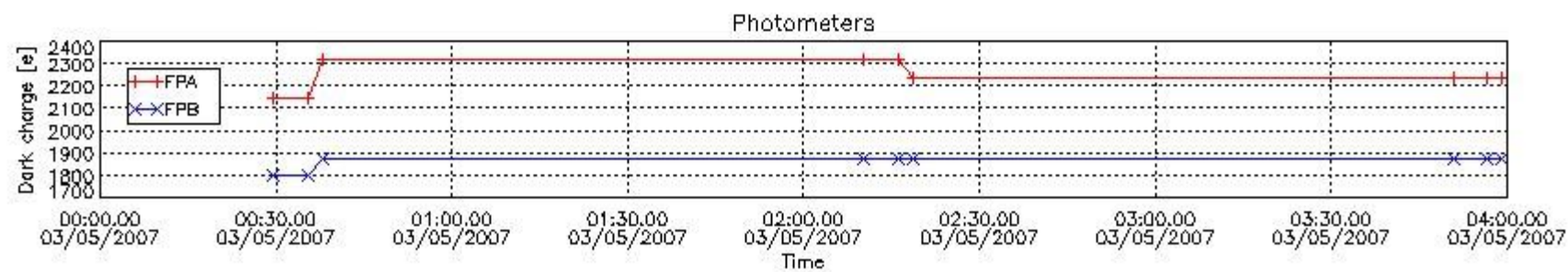
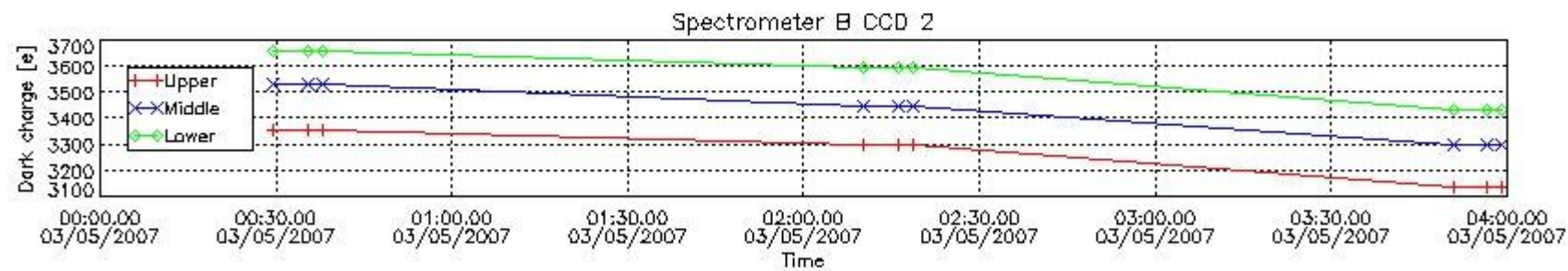
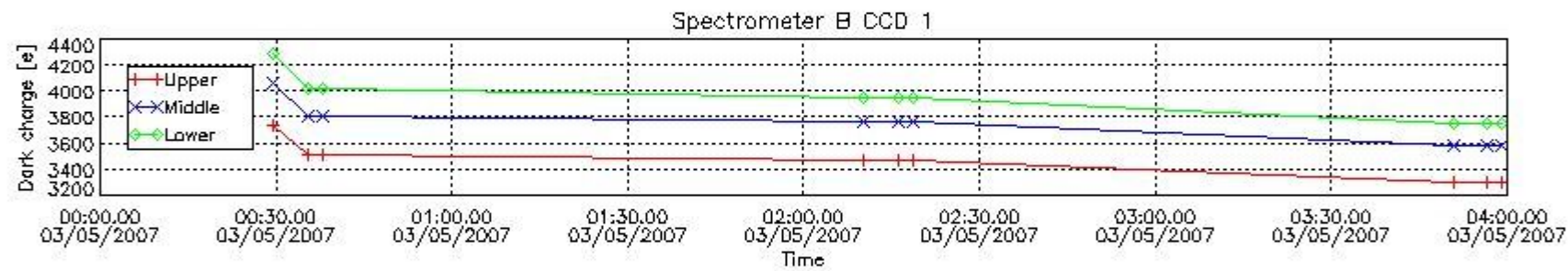
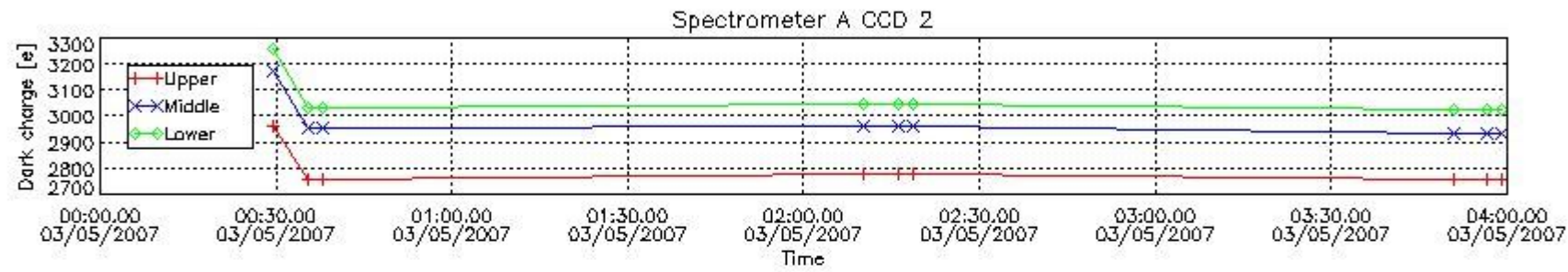
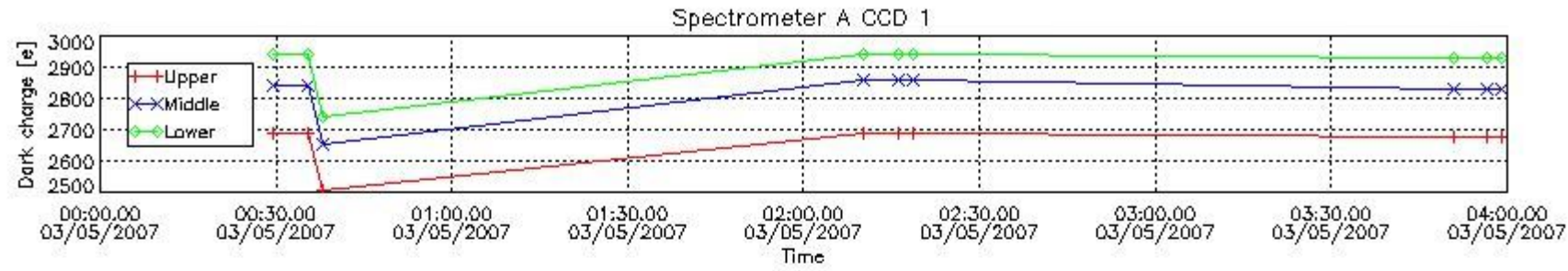
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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



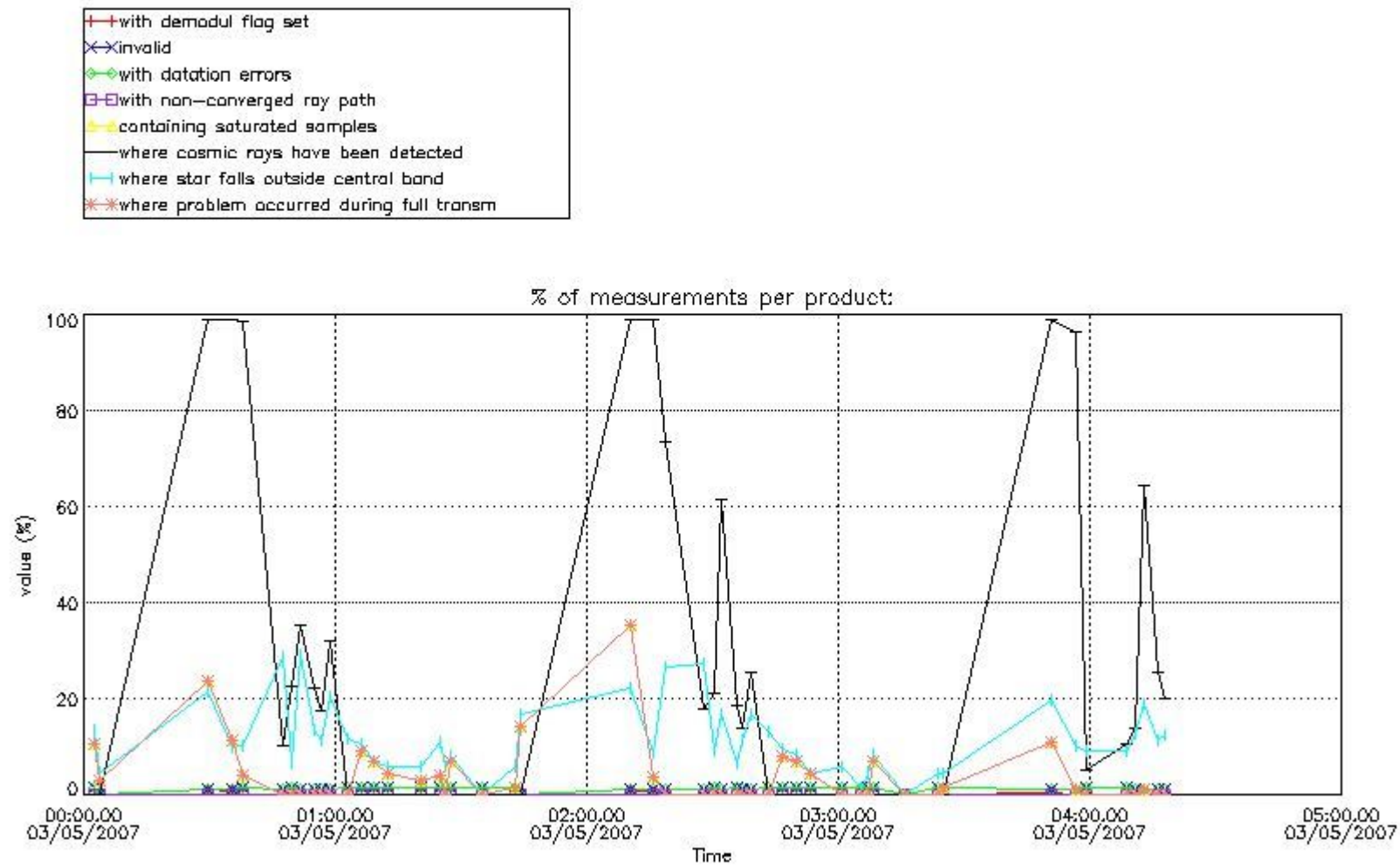
5. Demodulation flag and quality information monitoring

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.

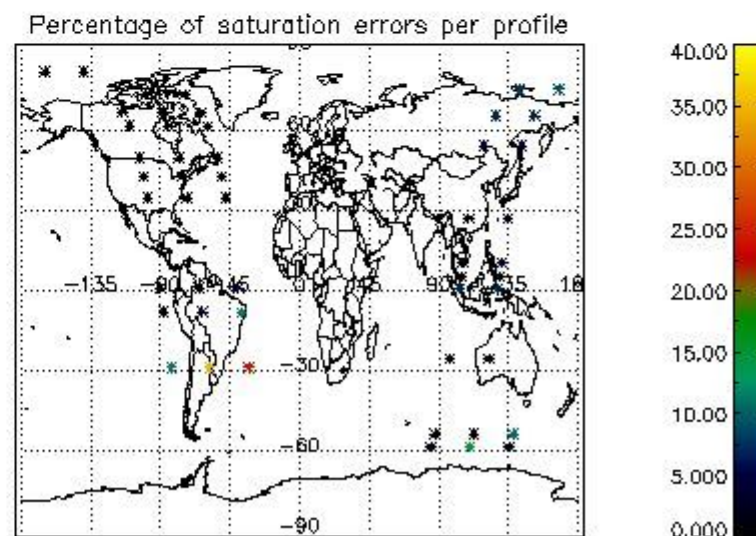
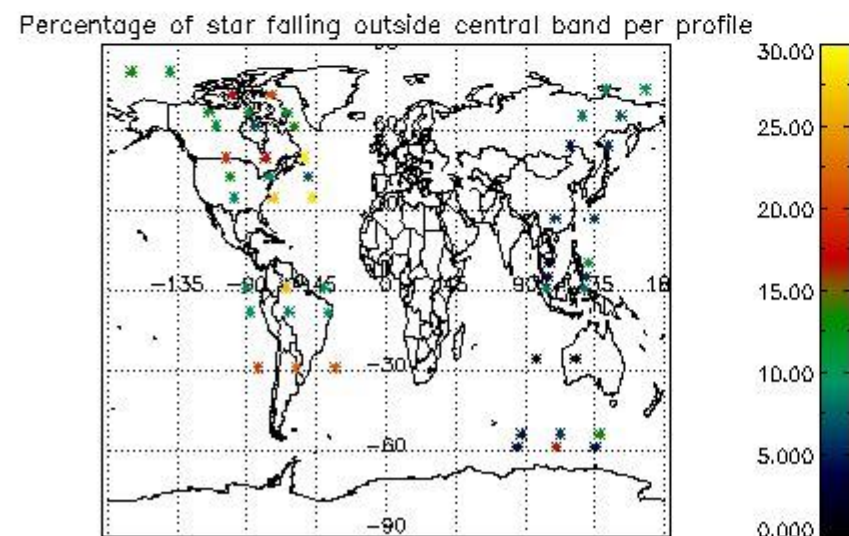
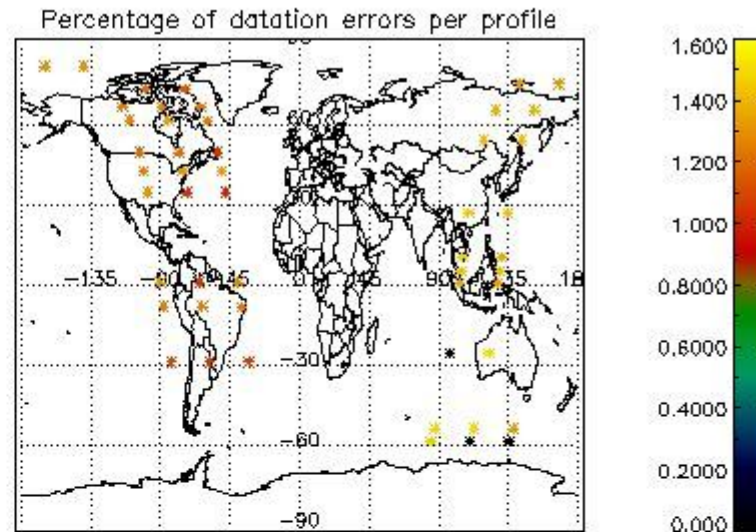
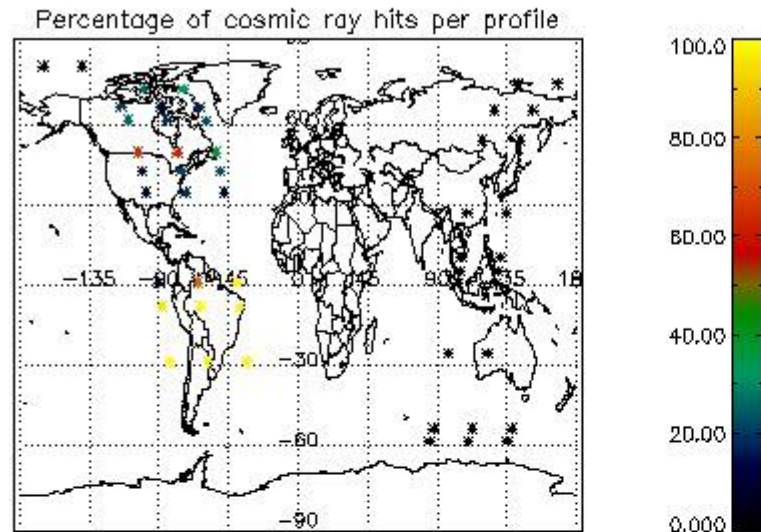
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
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)



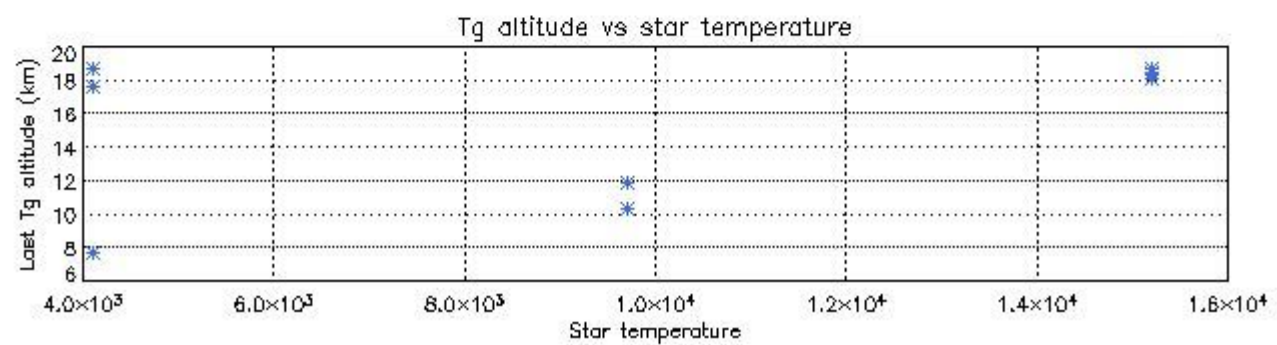
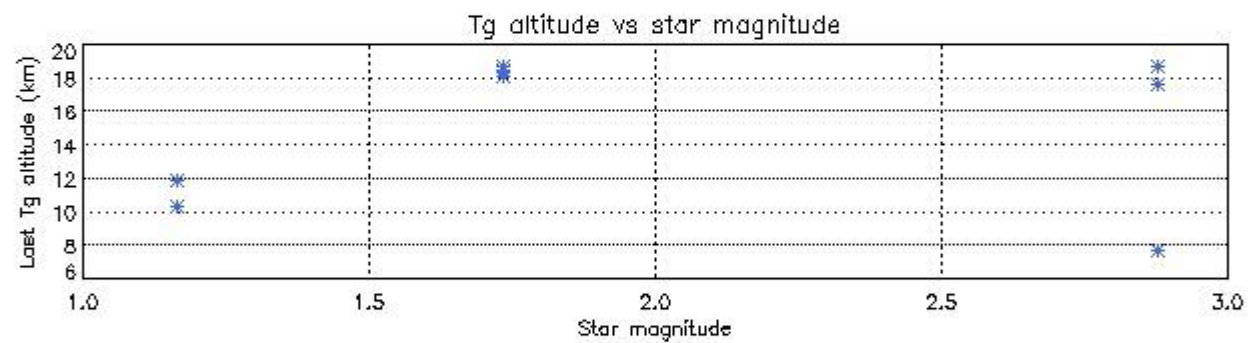
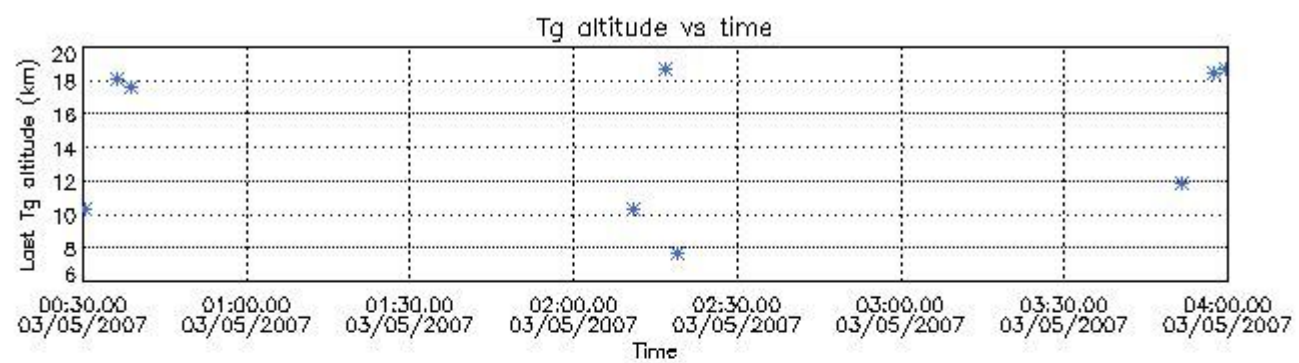
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.616	21.658	NaN
St. deviation:	4.4662	3.8937	NaN
Maximum:	18.635	30.247	NaN
Minimum:	7.7067	16.102	NaN
Number of data:	9.0000	24.000	NaN

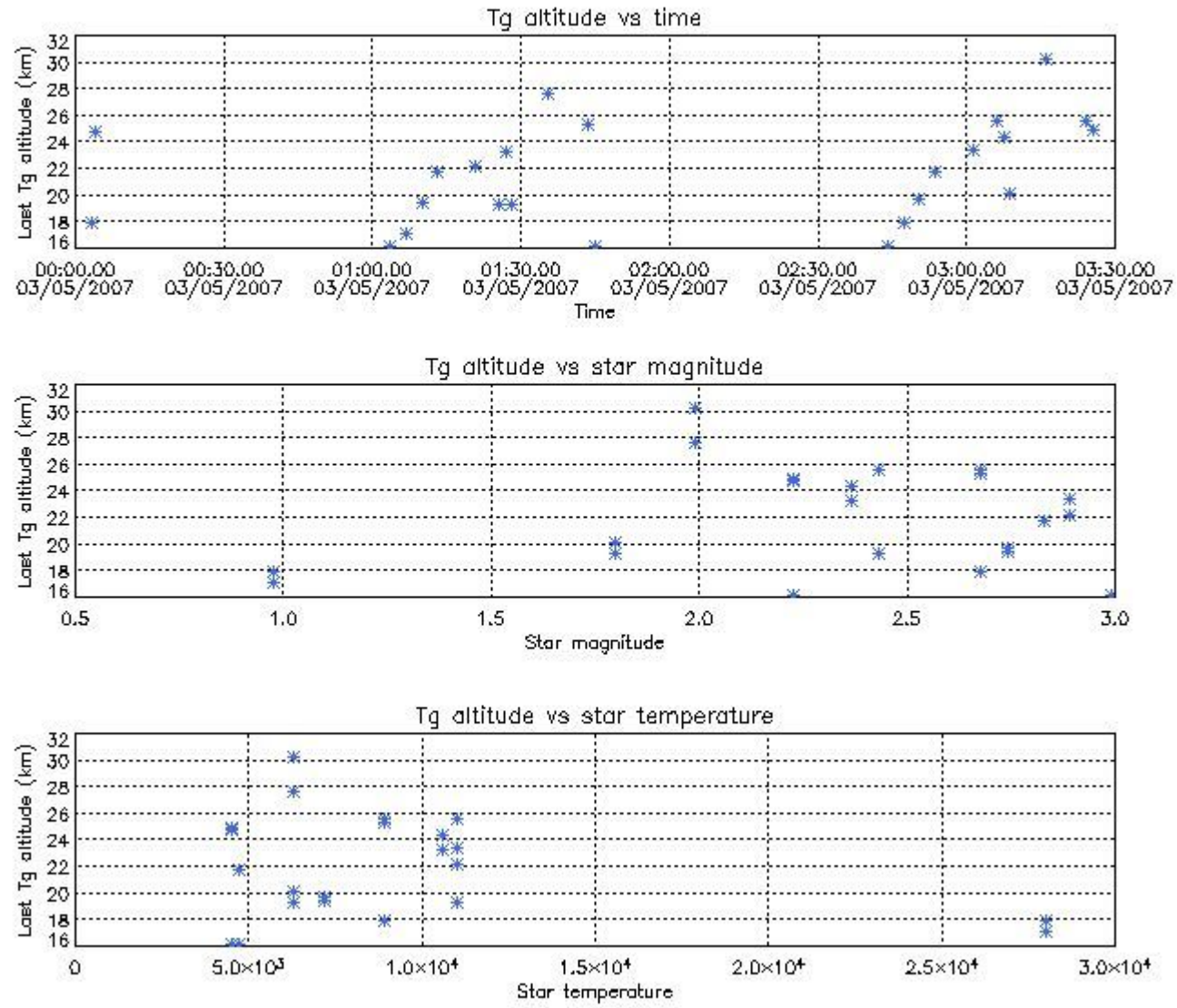
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

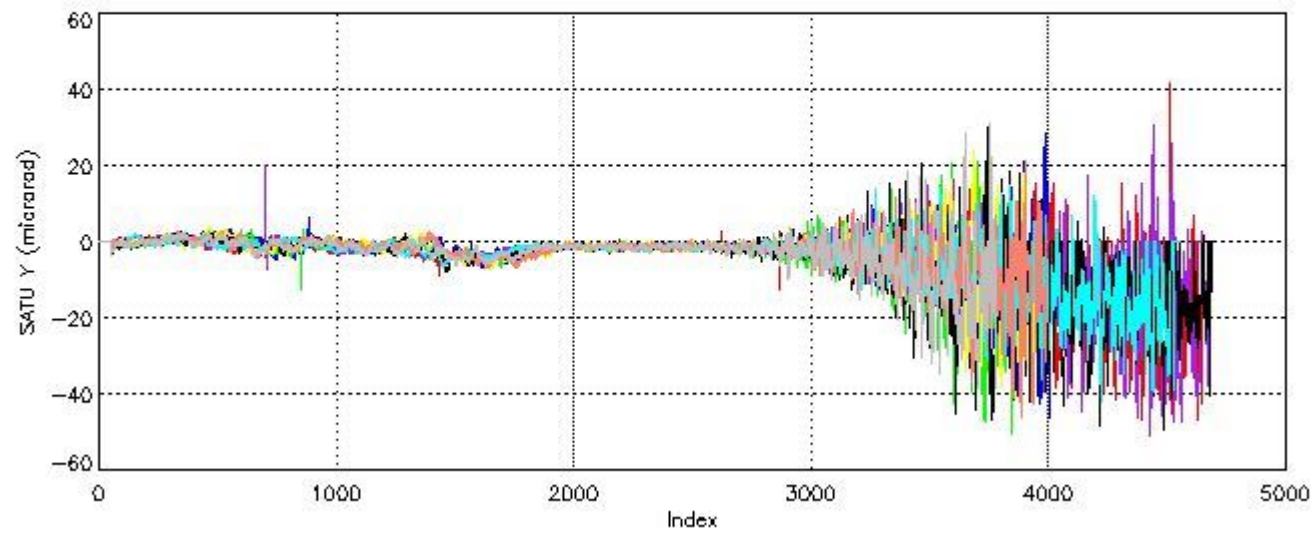
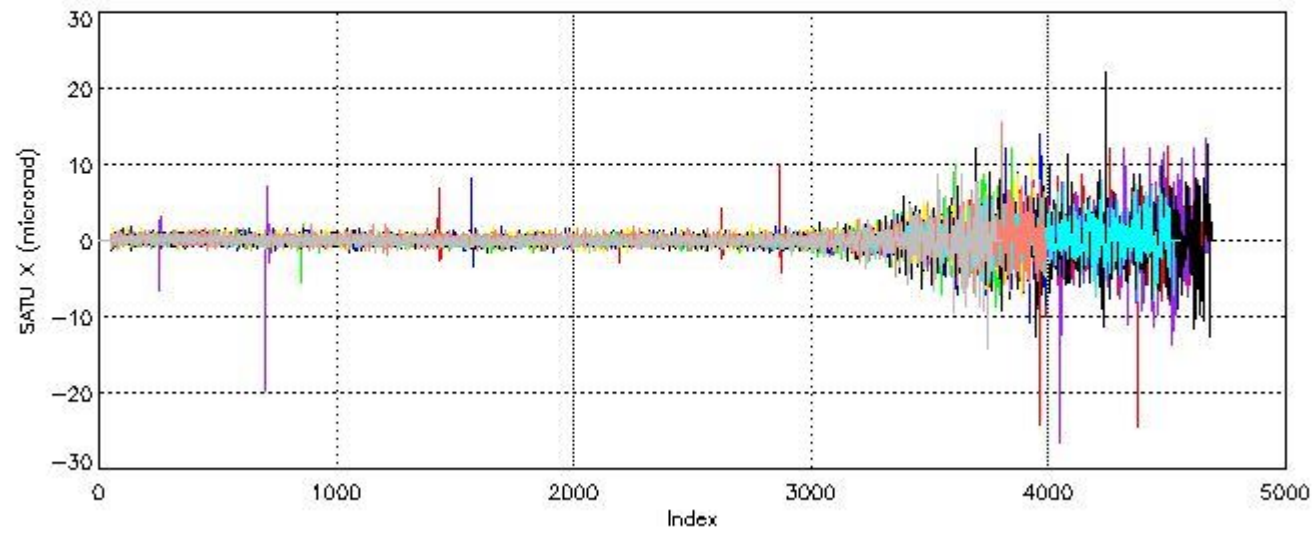


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11830	-0.24256	0.024661	-0.54701
St. deviation:	0.47335	1.2325	0.81803	1.3059
Maximum:	7.1000	19.900	5.0000	5.6000
Minimum:	-19.800	-12.400	-6.2000	-5.9000

Number of data:	8400.0	8400.0	20000.	20000.
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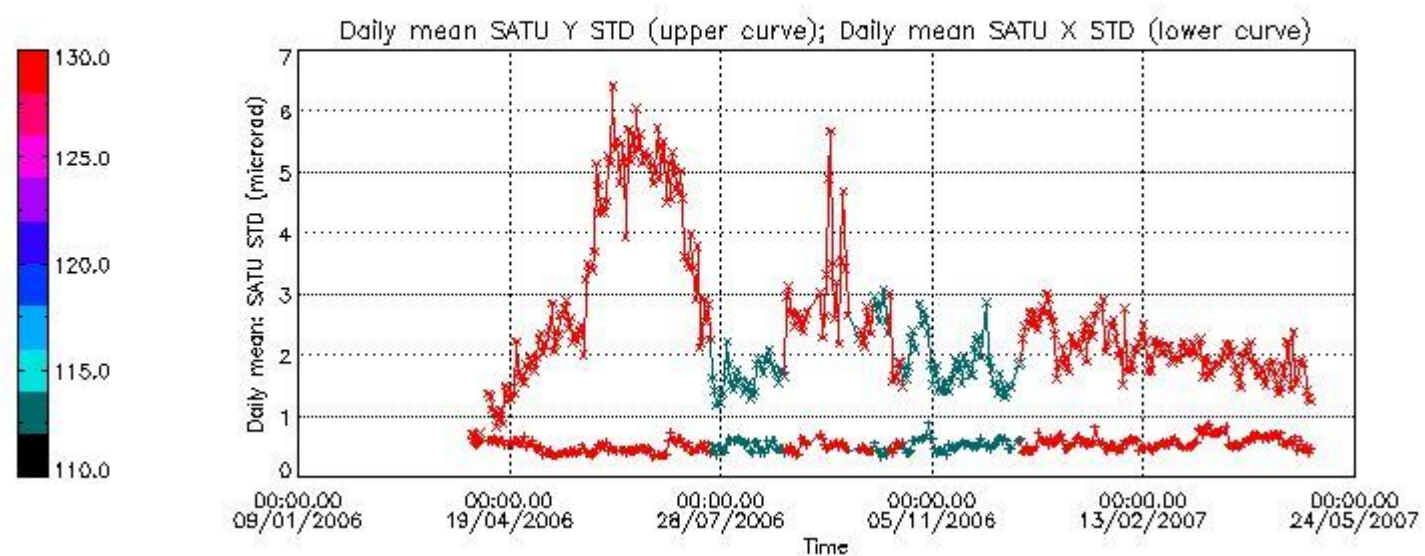
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

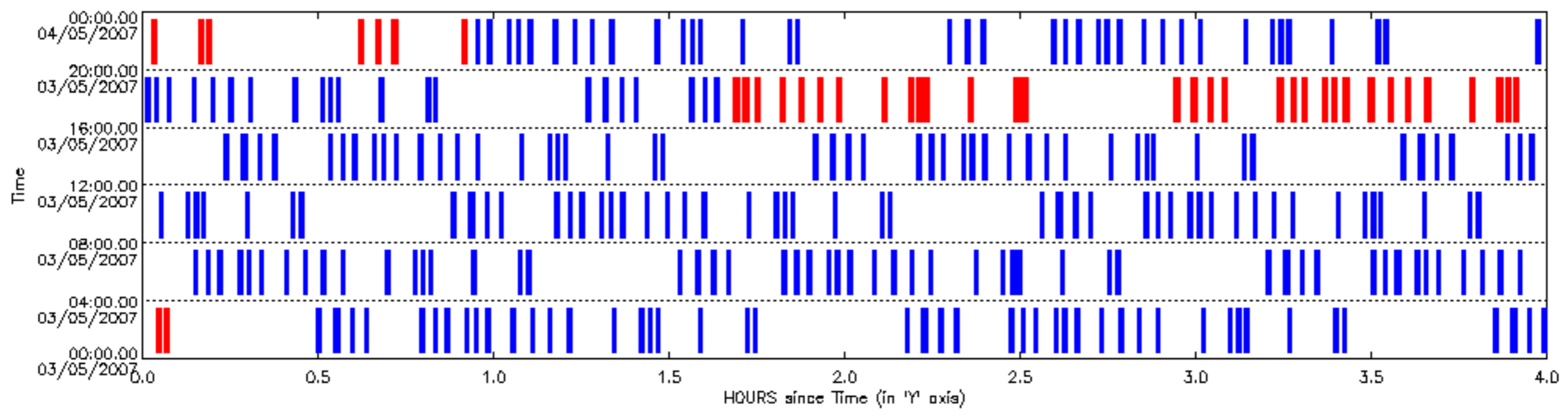
Lower curve: STD of SATU X axis

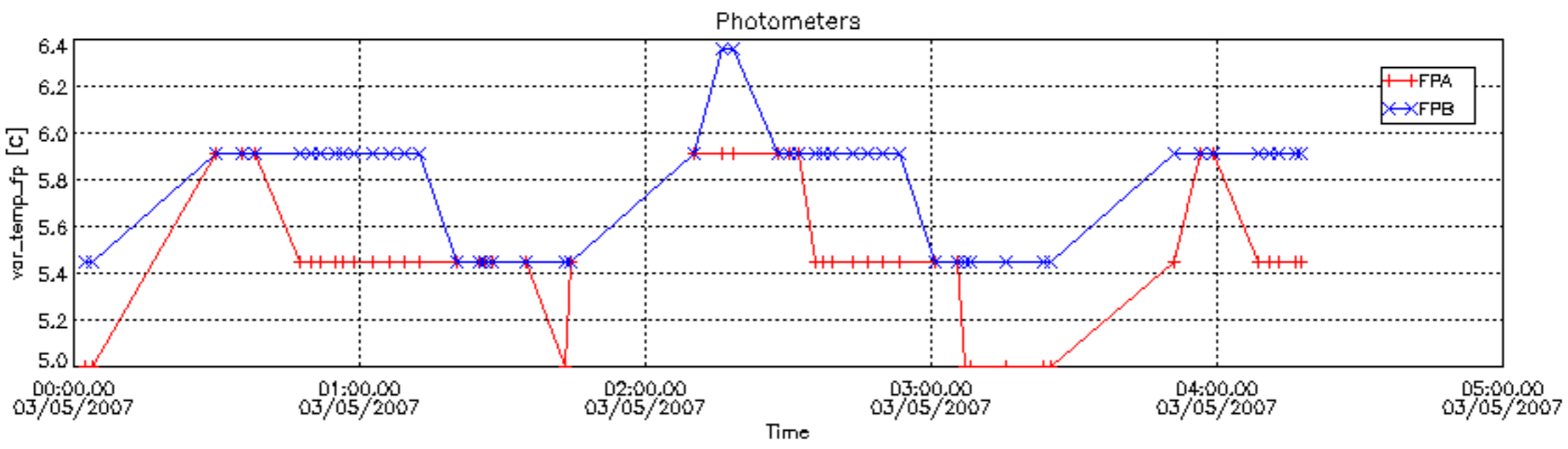
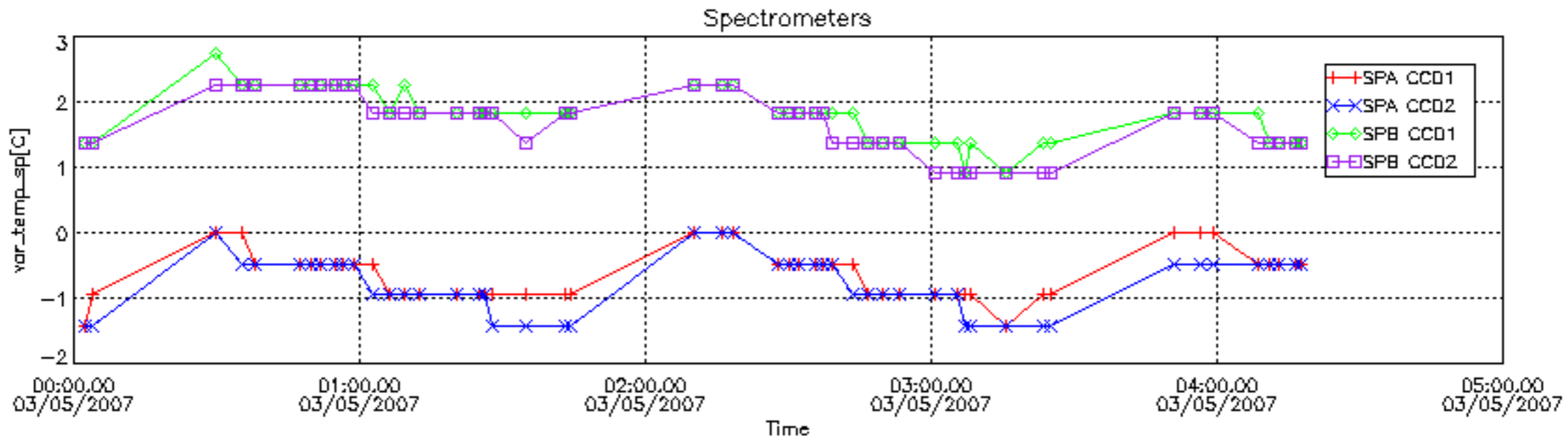


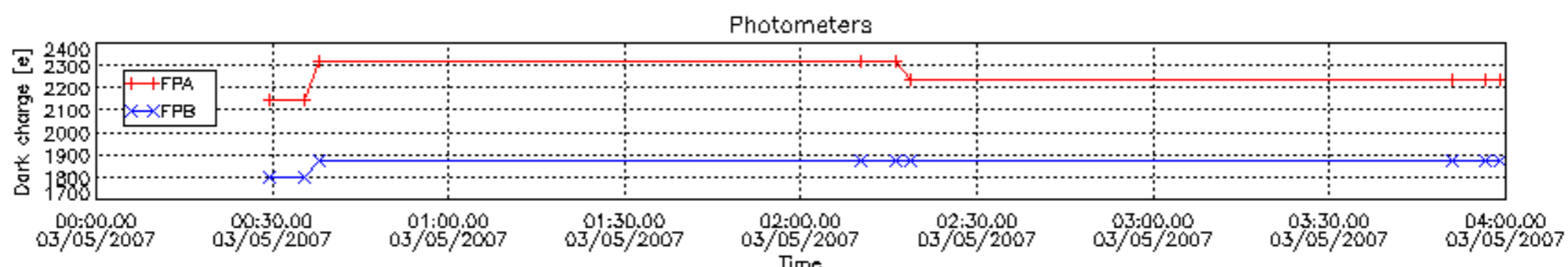
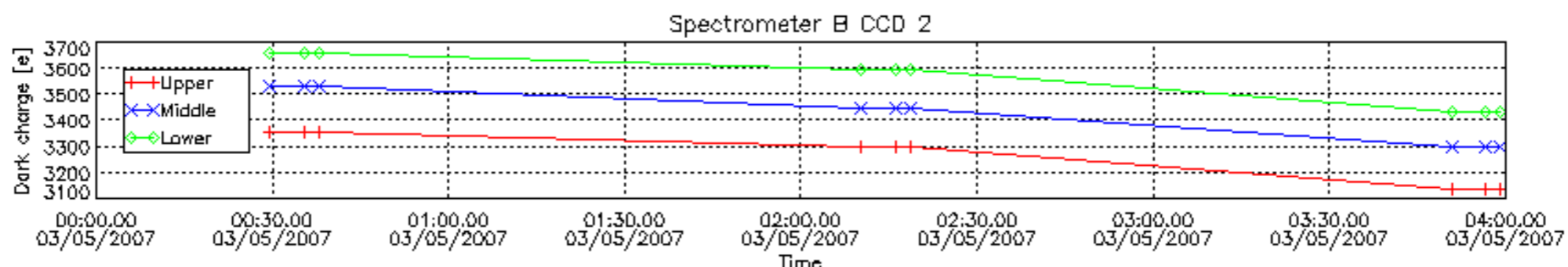
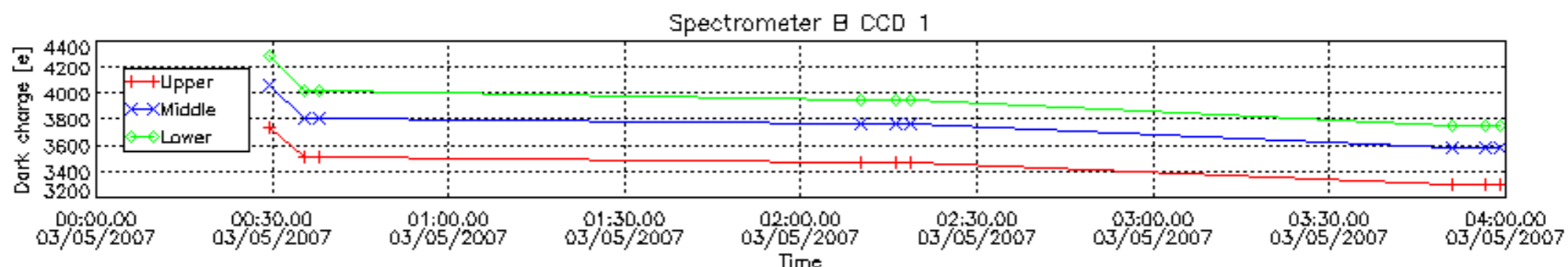
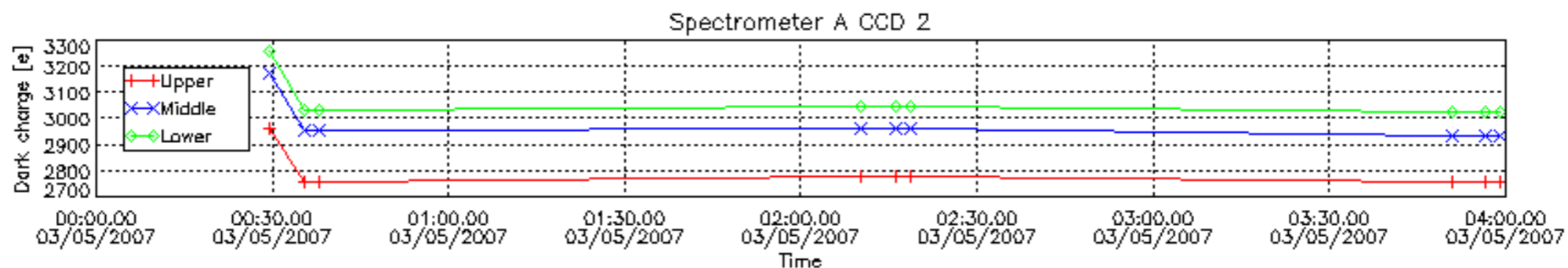
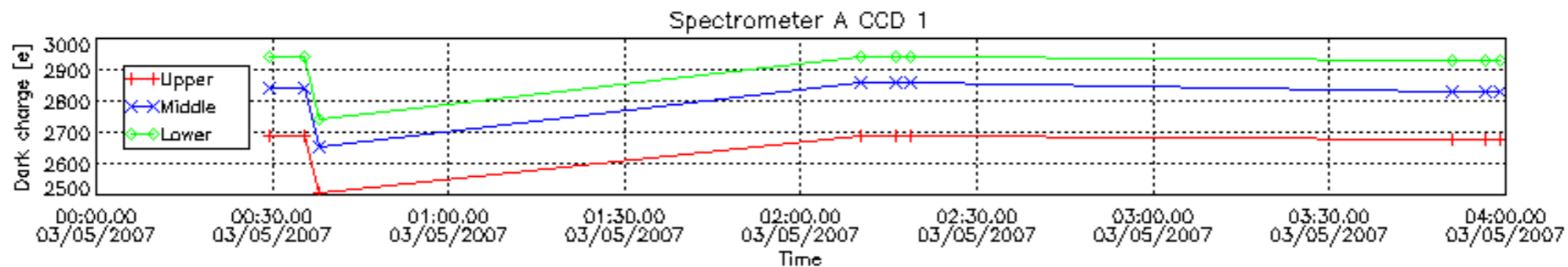
8. Auxiliary Data Files used for the production reported in section 2.4

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.

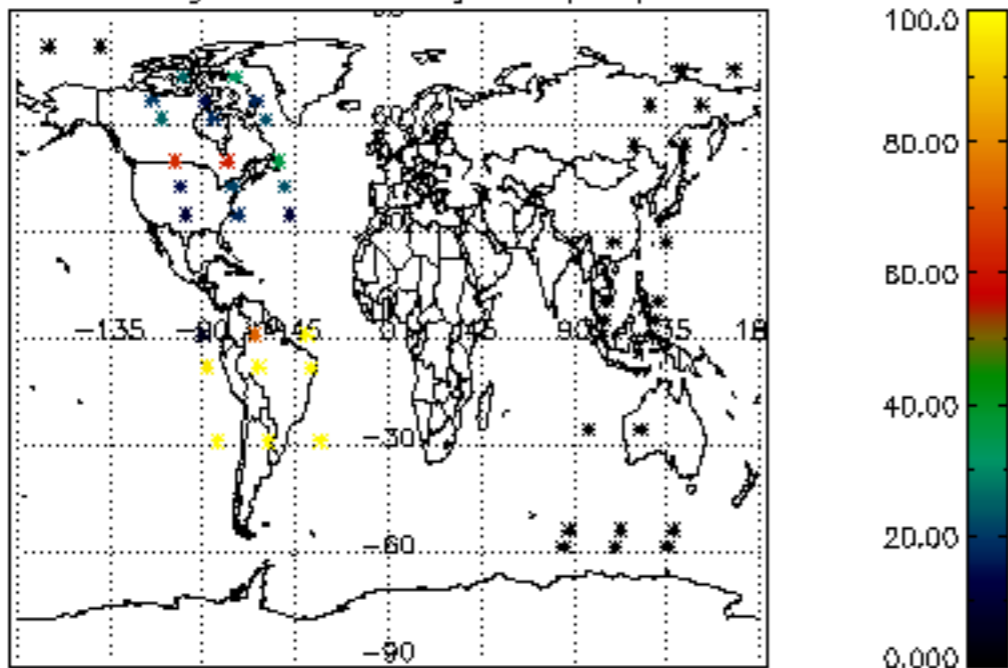
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070420_153235_20070419_000000_20100101_000000	1	03-MAY-2007 00:02:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-MAY-2007 00:02:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-MAY-2007 00:02:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-MAY-2007 00:02:25
ECMWF_FILE	AUX_ECF_AXNECM20070502_062112_20070502_210000_20070503_090000	1	03-MAY-2007 00:02:25
ECMWF_FILE	AUX_ECF_AXNECM20070502_182114_20070503_030000_20070503_150000	41	03-MAY-2007 03:23:37
OPTIONAL_ECMWF_FILE	MISSING	1	03-MAY-2007 00:02:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070502_205336_000060572057_00429_27036_3404.N1	1	03-MAY-2007 00:02:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070502_223952_000057382057_00430_27037_3405.N1	3	03-MAY-2007 00:29:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070503_002049_000057382057_00431_27038_3406.N1	23	03-MAY-2007 02:10:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070503_031609_000057382057_00433_27040_3408.N1	41	03-MAY-2007 03:23:37



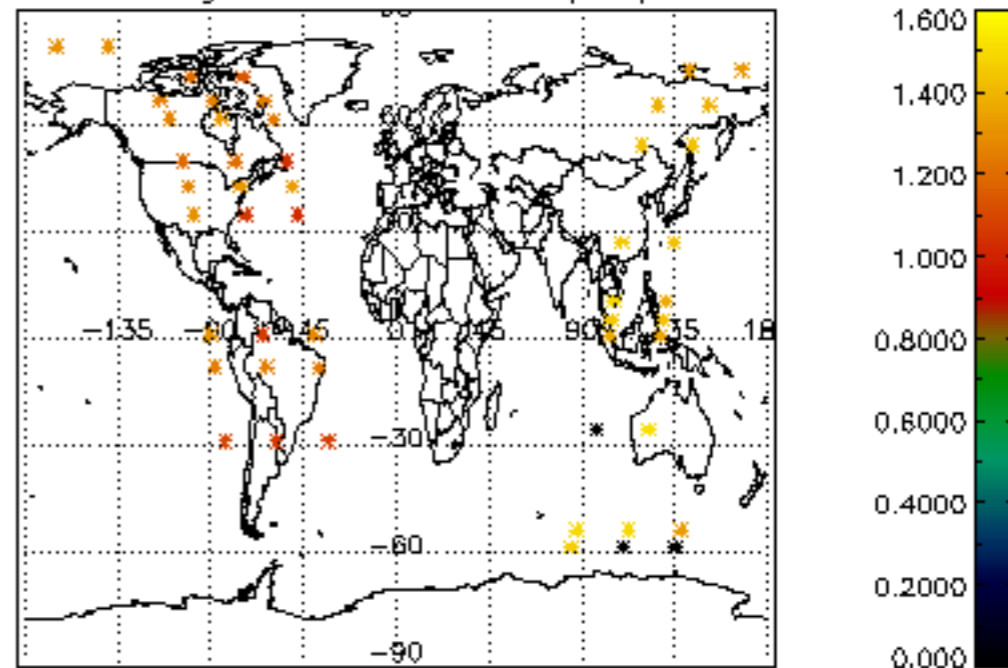




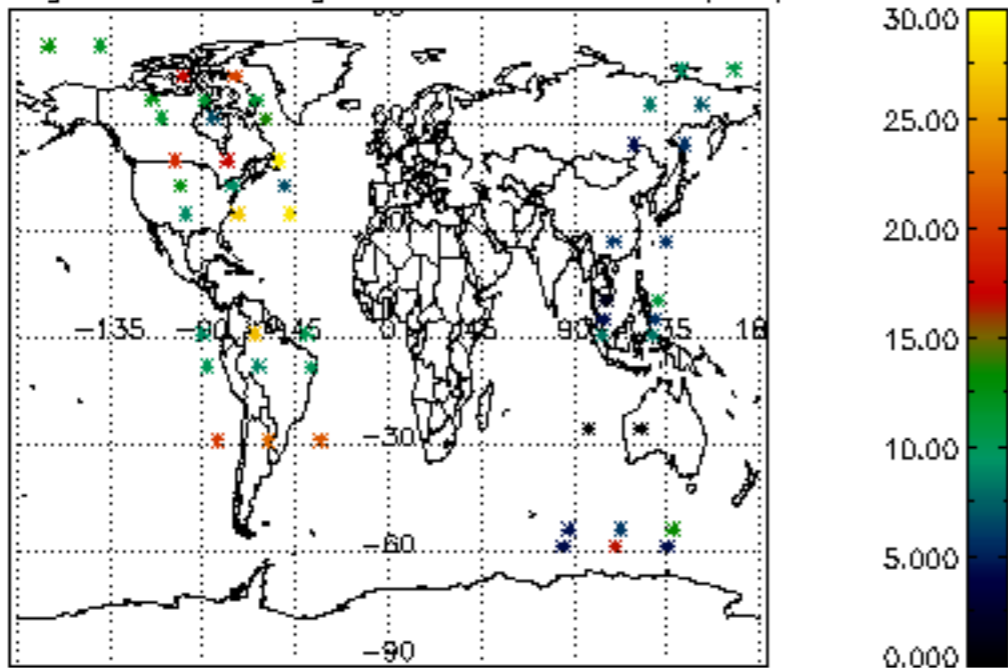
Percentage of cosmic ray hits per profile



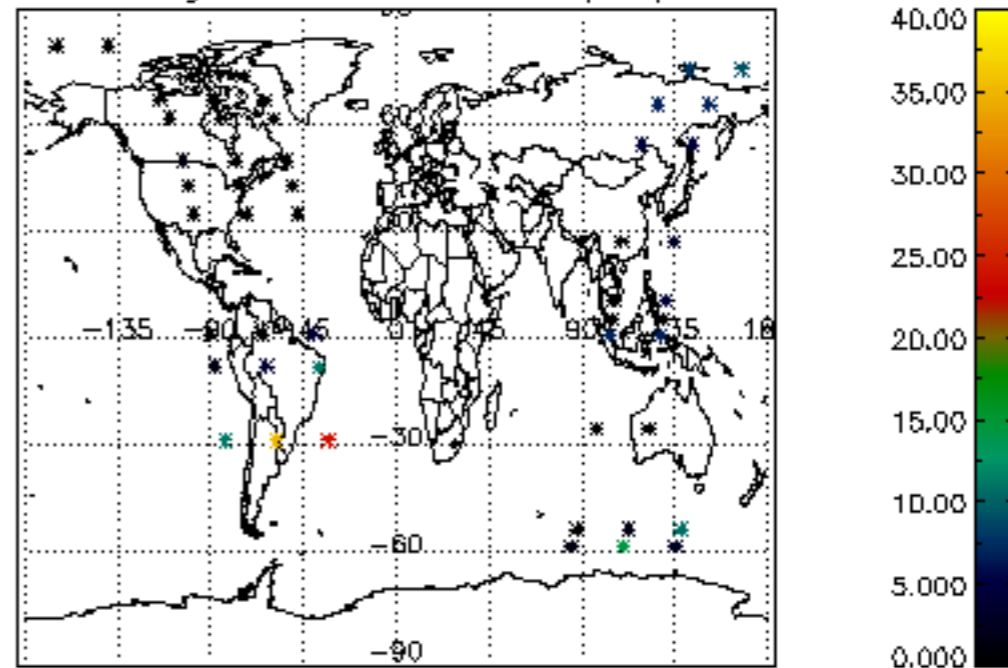
Percentage of datation errors per profile



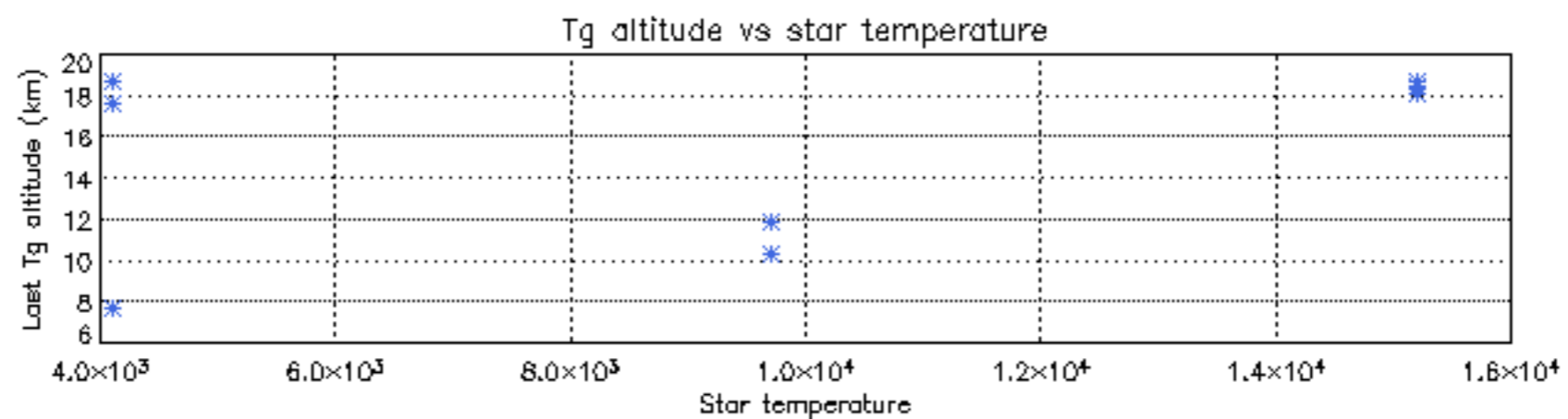
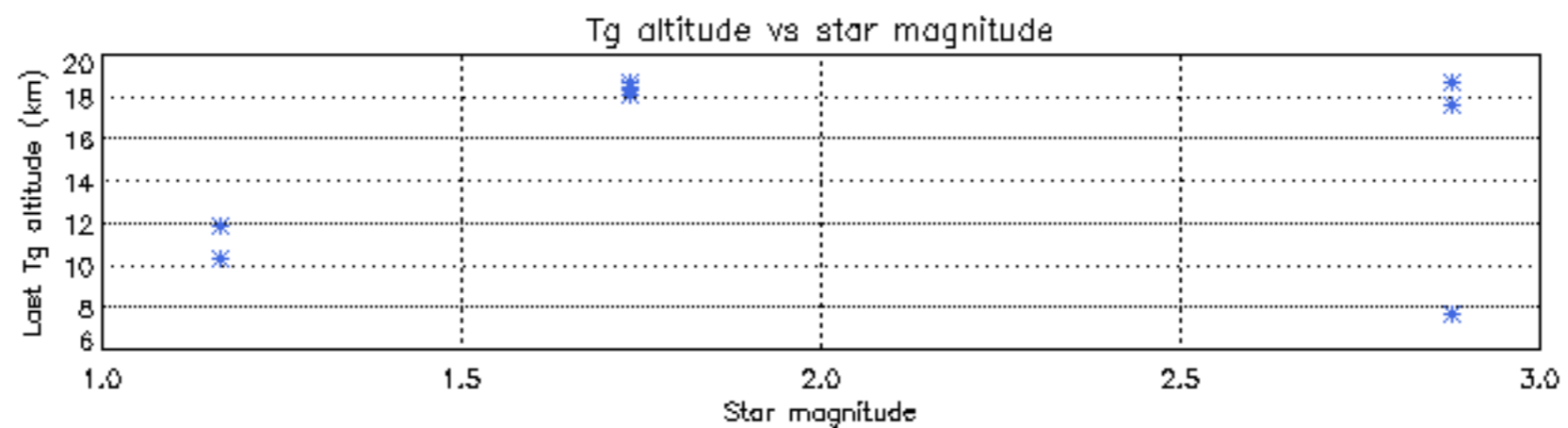
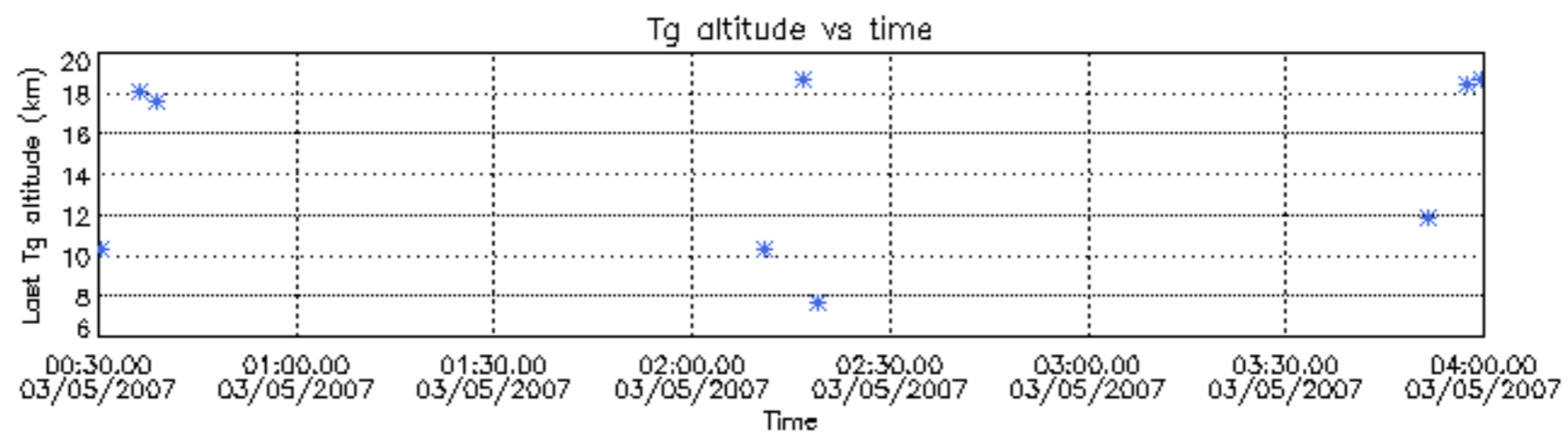
Percentage of star falling outside central band per profile



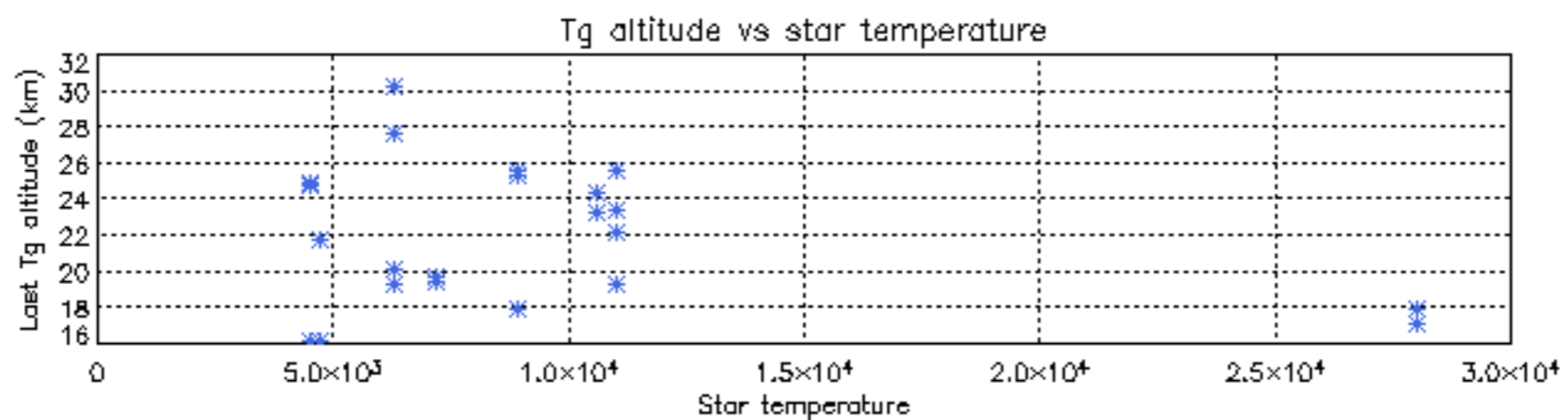
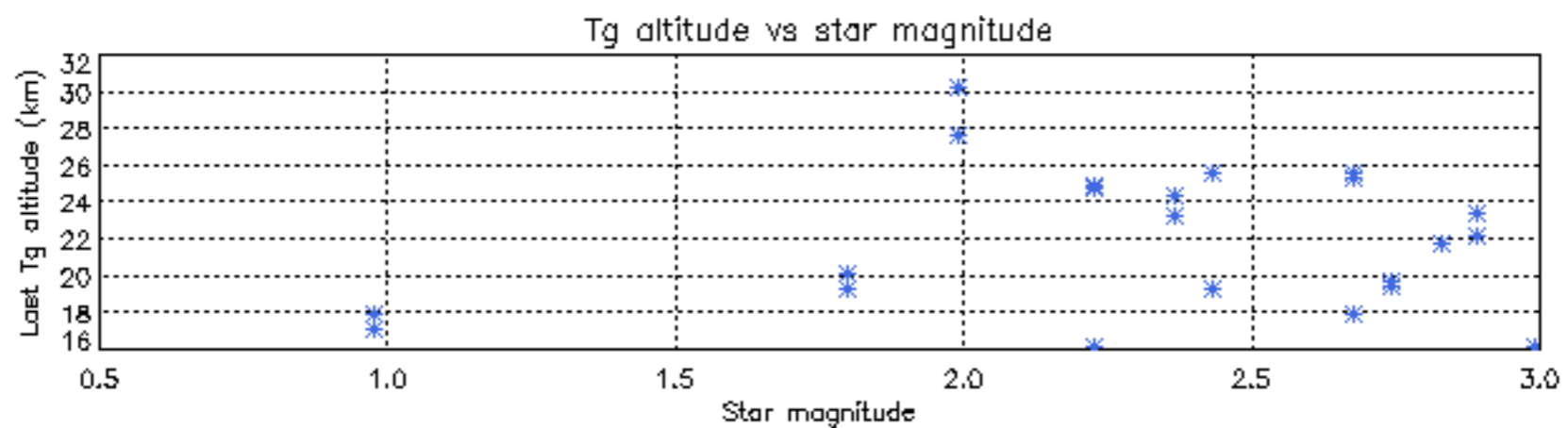
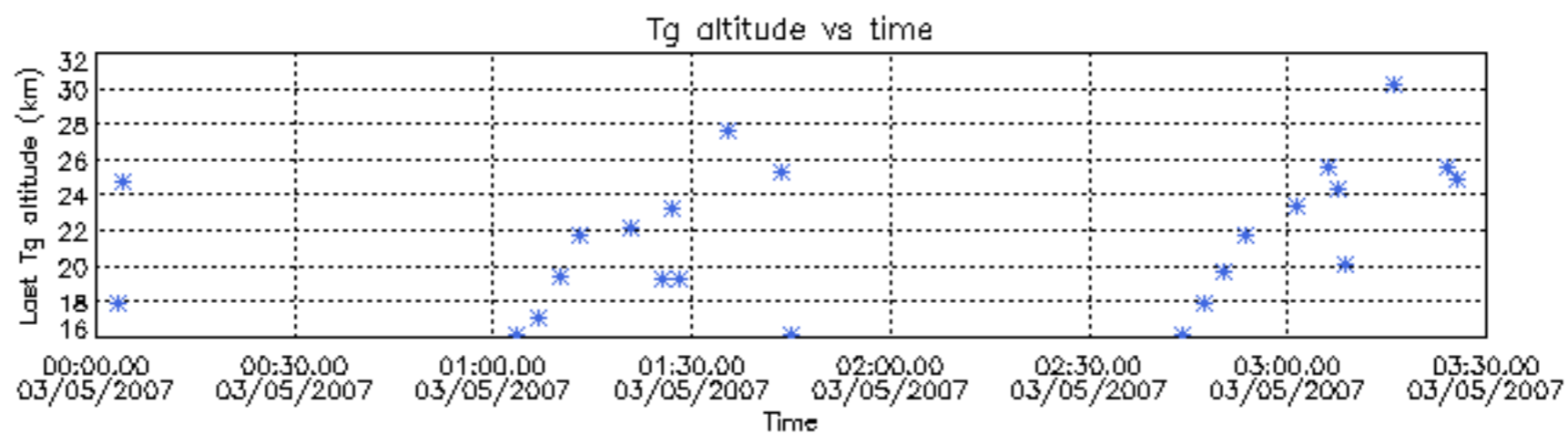
Percentage of saturation errors per profile

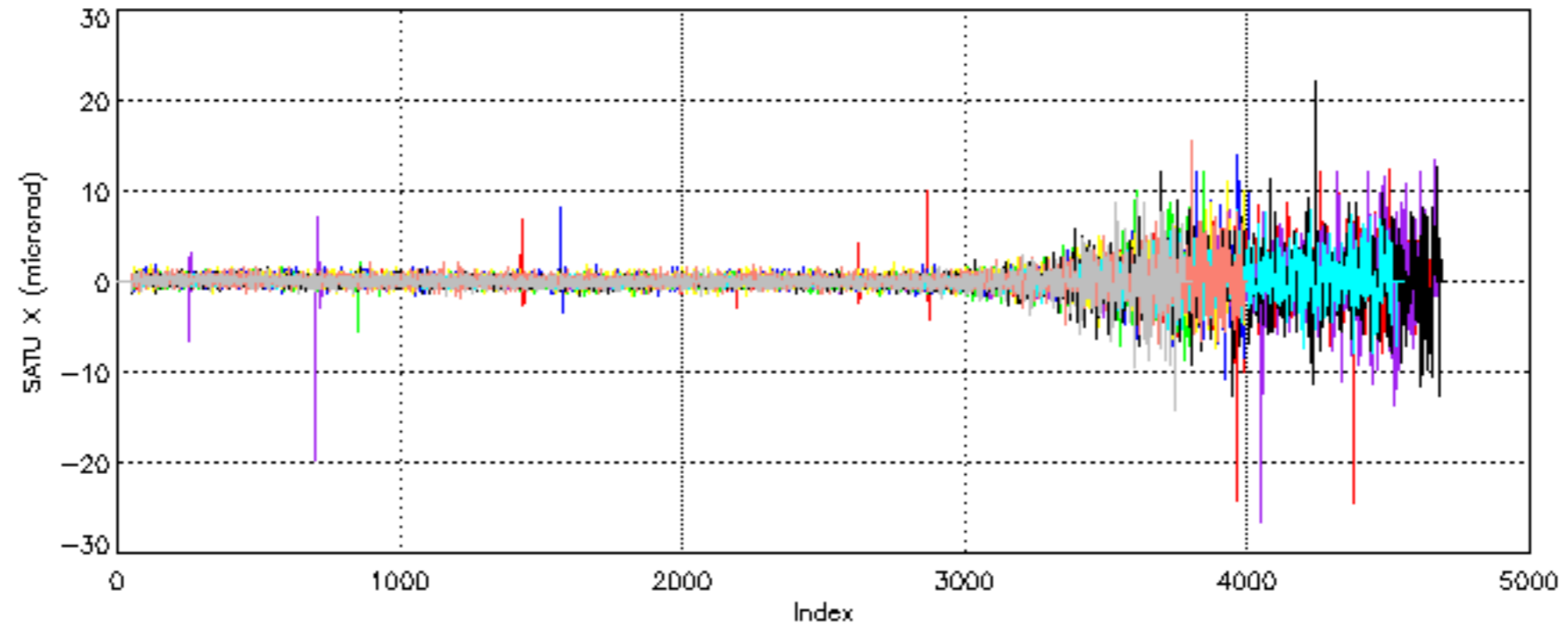


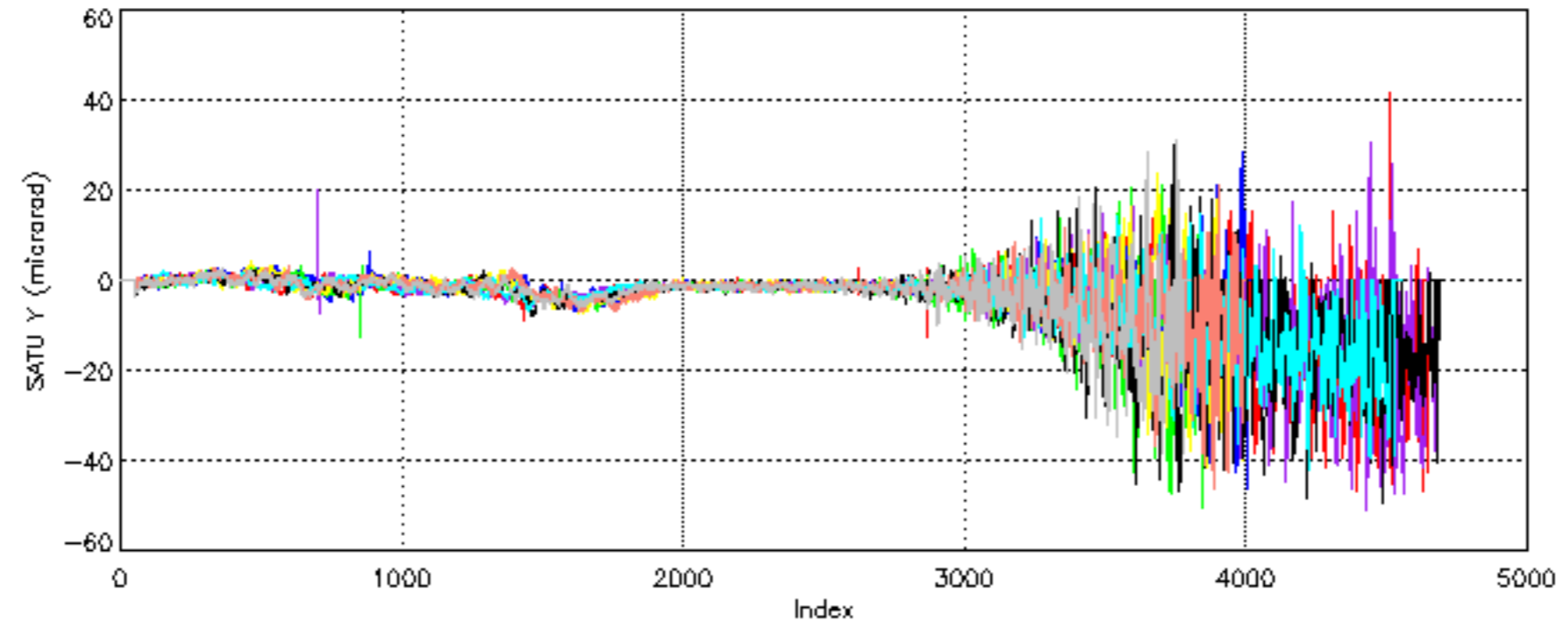
Tangent altitude at which the star is lost

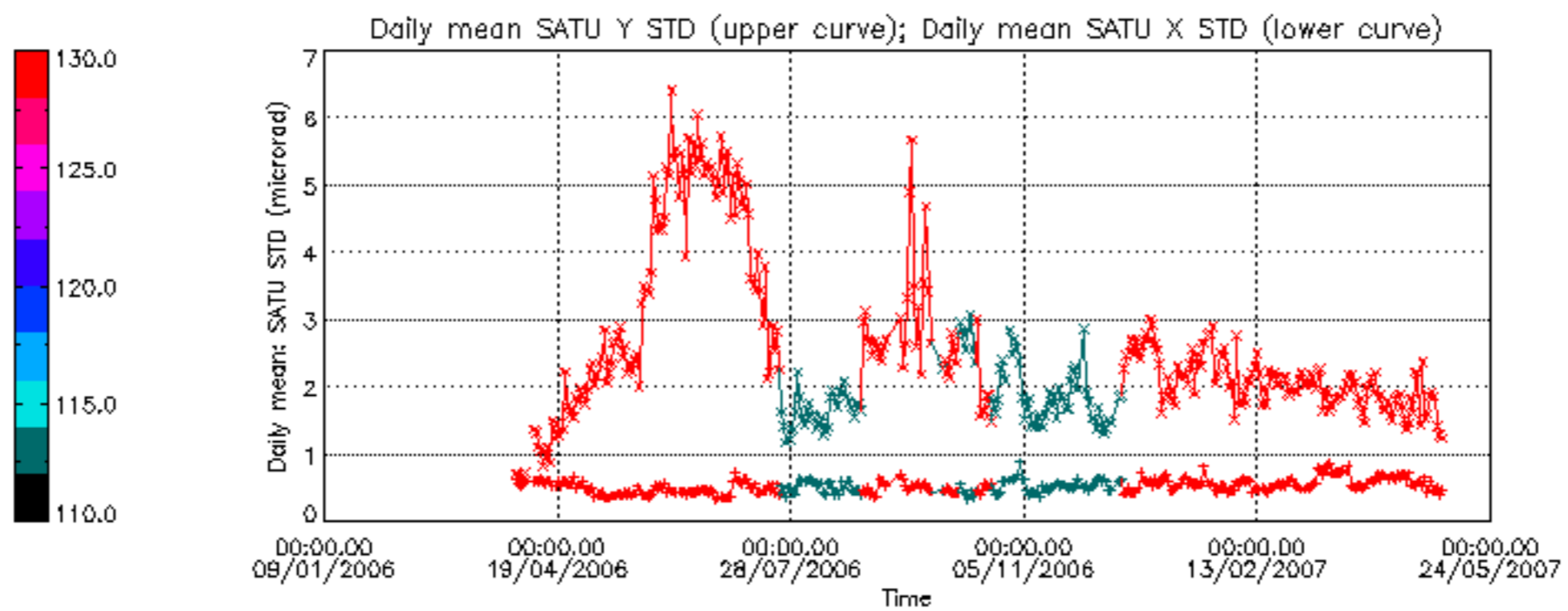


Tangent altitude at which the star is lost









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 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011
 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
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 9; 1129.0; 01-MAY-2007 01:59:42; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27011
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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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 8; 575.9; 01-MAY-2007 03:31:05; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27012
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9; 1132.5; 01-MAY-2007 22:06:57; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;27023
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11; 1514.0; 01-MAY-2007 22:13:18; Dark ; 39.5; 169; 46Gam Hya ; 2.99; 4700;occ; 79; 0;27023
12; 1713.1; 01-MAY-2007 22:16:37; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27023
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 12; 1262.2; 03-MAY-2007 06:00:29; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;27042
 13; 1517.3; 03-MAY-2007 06:04:44; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27042
 14; 1715.6; 03-MAY-2007 06:08:03; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27042
 15; 1901.1; 03-MAY-2007 06:11:08; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27042
 16; 2097.8; 03-MAY-2007 06:14:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27042
 17; 2559.9; 03-MAY-2007 06:22:07; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27042
 18; 2837.3; 03-MAY-2007 06:26:44; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;27042
 19; 2924.8; 03-MAY-2007 06:28:12; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;27042
 20; 3002.3; 03-MAY-2007 06:29:29; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;27042
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 16; 4003.3; 03-MAY-2007 21:51:34; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27051

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 4; 590.0; 03-MAY-2007 22:35:16; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27052
 5; 721.8; 03-MAY-2007 22:37:28; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27052
 6; 841.9; 03-MAY-2007 22:39:28; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;27052
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 8; 1141.1; 03-MAY-2007 22:44:27; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;27052
 9; 1264.4; 03-MAY-2007 22:46:31; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;27052
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 12; 1902.6; 03-MAY-2007 22:57:09; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27052
 13; 2098.6; 03-MAY-2007 23:00:25; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27052
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 15; 2839.1; 03-MAY-2007 23:12:45; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27052
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 17; 3004.9; 03-MAY-2007 23:15:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27052
 18; 3445.0; 03-MAY-2007 23:22:51; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;27052
 19; 3923.4; 03-MAY-2007 23:30:50; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;27052
 20; 4003.5; 03-MAY-2007 23:32:10; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;27052

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 3; -126.7; 04-MAY-2007 00:03:56; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27052
 4; 23.1; 04-MAY-2007 00:06:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27053
 5; 590.3; 04-MAY-2007 00:15:53; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;27053
 6; 722.1; 04-MAY-2007 00:18:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27053
 7; 842.2; 04-MAY-2007 00:20:04; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;27053
 8; 1049.2; 04-MAY-2007 00:23:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27053

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 10; 1264.5; 04-MAY-2007 00:27:07; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27053
 11; 1519.0; 04-MAY-2007 00:31:21; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27053
 12; 1716.7; 04-MAY-2007 00:34:39; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27053
 13; 1902.8; 04-MAY-2007 00:37:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27053
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 15; 2559.9; 04-MAY-2007 00:48:42; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27053
 16; 2839.2; 04-MAY-2007 00:53:21; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;27053
 17; 2928.2; 04-MAY-2007 00:54:50; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27053
 18; 3005.1; 04-MAY-2007 00:56:07; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27053
 19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
 20; 3923.5; 04-MAY-2007 01:11:26; Bright; 46.0; 110; 37Del Cas ; 2.68; 8900;occ; 92; 0;27053
 21; 4003.6; 04-MAY-2007 01:12:46; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27053

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 3; -480.0; 03-MAY-2007 07:12:03; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;27042
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 5; -132.4; 03-MAY-2007 07:17:51; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27042
 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
 10; 1046.3; 03-MAY-2007 07:37:29; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27043
 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
 13; 1517.5; 03-MAY-2007 07:45:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27043

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Problem occurred when reading packet number 377!

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 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
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 3; 2097.9; 03-MAY-2007 07:55:01; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27043
 4; 2559.9; 03-MAY-2007 08:02:43; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27043
 5; 2837.4; 03-MAY-2007 08:07:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27043
 6; 2925.1; 03-MAY-2007 08:08:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27043
 7; 3002.6; 03-MAY-2007 08:10:06; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27043
 8; 3445.1; 03-MAY-2007 08:17:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27043
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 11; 5556.4; 03-MAY-2007 08:52:39; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;27043
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 13; 5904.1; 03-MAY-2007 08:58:27; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27043
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6; 2925.3; 03-MAY-2007 09:49:24; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27044
7; 3002.8; 03-MAY-2007 09:50:42; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;27044
8; 3445.0; 03-MAY-2007 09:58:04; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27044
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3; 2098.0; 03-MAY-2007 11:16:13; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;27045
4; 2559.8; 03-MAY-2007 11:23:55; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27045
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6; 2925.6; 03-MAY-2007 11:30:00; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;27045
7; 3003.0; 03-MAY-2007 11:31:18; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27045
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5; 20.6; 03-MAY-2007 12:22:11; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27046
6; 588.0; 03-MAY-2007 12:31:39; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27046
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8; 845.7; 04-MAY-2007 23:48:31; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;27067
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10; 1145.2; 04-MAY-2007 23:53:31; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27067
11; 1267.8; 04-MAY-2007 23:55:33; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27067
12; 1521.4; 04-MAY-2007 23:59:47; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27067
13; 1718.7; 05-MAY-2007 00:03:04; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;27067
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15; 2100.1; 05-MAY-2007 00:09:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27067
16; 2560.6; 05-MAY-2007 00:17:06; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27067
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20; 3445.2; 05-MAY-2007 00:31:50; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27067
21; 3925.7; 05-MAY-2007 00:39:51; Bright; 50.0; 110; 37Del Cas ; 2.68; 8900;occ; 100; 0;27067
22; 4004.8; 05-MAY-2007 00:41:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27067
23; 5250.1; 05-MAY-2007 01:01:55; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;27067

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6; 24.8; 04-MAY-2007 06:48:51; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27057
7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
9; 843.3; 04-MAY-2007 07:02:29; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;27057
10; 1050.5; 04-MAY-2007 07:05:57; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;27057
11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
12; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
14; 1717.5; 04-MAY-2007 07:17:04; Bright; 27.0; 15; 67Alp Vir ; 0.98; 28000;occ; 54; 0;27057

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3; 2099.2; 04-MAY-2007 07:23:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27057
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6; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
7; 3006.2; 04-MAY-2007 07:38:32; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27057
8; 3445.1; 04-MAY-2007 07:45:51; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27057
9; 3924.0; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
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15; 6628.2; 04-MAY-2007 08:38:54; Dark ; 44.5; 43; Alp TrA ; 1.91; 4250;occ; 89; 0;27057
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21; 7555.8; 04-MAY-2007 08:54:22; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27057
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5; 2844.0; 05-MAY-2007 12:06:01; Bright; 36.0; 55; 79Zet UMa ; 2.06; 10200;occ; 72; 0;27074
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23; 4789.8; 22-MAY-2007 00:19:47; Dark ; 42.5; 140; 88Gam Peg ; 2.83; 26000;occ; 85; 0;27310
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17; 6829.4; 21-MAY-2007 09:48:23; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27301
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5; 2562.4; 21-MAY-2007 10:17:52; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;27302
6; 3060.6; 21-MAY-2007 10:26:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27302
7; 3175.6; 21-MAY-2007 10:28:05; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27302
8; 3446.4; 21-MAY-2007 10:32:36; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27302
9; 3937.9; 21-MAY-2007 10:40:47; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27302
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12; 4787.2; 21-MAY-2007 10:54:57; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27302
13; 5313.5; 21-MAY-2007 11:03:43; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;27302
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23; 7769.9; 23-MAY-2007 09:00:50; Bright; 35.5; 104; 27Bet Lib ; 2.61; 13100;occ; 71; 0;27329

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 3; 2025.9; 23-MAY-2007 12:26:53; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27332
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 5; 2560.6; 23-MAY-2007 12:35:48; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;27332
 6; 3048.6; 23-MAY-2007 12:43:56; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27332
 7; 3173.1; 23-MAY-2007 12:46:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;27332
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 14; 5848.5; 23-MAY-2007 13:30:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27332
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 18; 6843.6; 23-MAY-2007 13:47:11; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27332
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 21; 7415.7; 23-MAY-2007 13:56:43; Dark ; 59.5; 16; 21Alp Sco ; 1.02; 3000;occ; 119; 0;27332

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 3; 1734.1; 23-MAY-2007 14:02:37; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27333
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 5; 2370.8; 23-MAY-2007 14:13:14; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;27333
 6; 2560.6; 23-MAY-2007 14:16:24; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27333
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 9; 3446.7; 23-MAY-2007 14:31:10; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;27333
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 10; 3446.7; 23-MAY-2007 16:11:46; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27334
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5; 1640.1; 23-MAY-2007 17:22:15; Bright; 26.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 53; 0;27335
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5; 1524.7; 23-MAY-2007 19:00:56; Bright; 42.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 84; 0;27336
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2; 1247.4; 31-MAY-2007 16:23:59; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27449
3; 1370.2; 31-MAY-2007 16:26:02; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;27449
4; 1542.4; 31-MAY-2007 16:28:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27449
5; 1702.4; 31-MAY-2007 16:31:34; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27449
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
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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
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3; 1247.7; 31-MAY-2007 18:04:35; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27450
4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
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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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22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450