

GOMOS Daily Report 27-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	29MAY2007 05:32:56
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (27MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (28MAY2007 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)

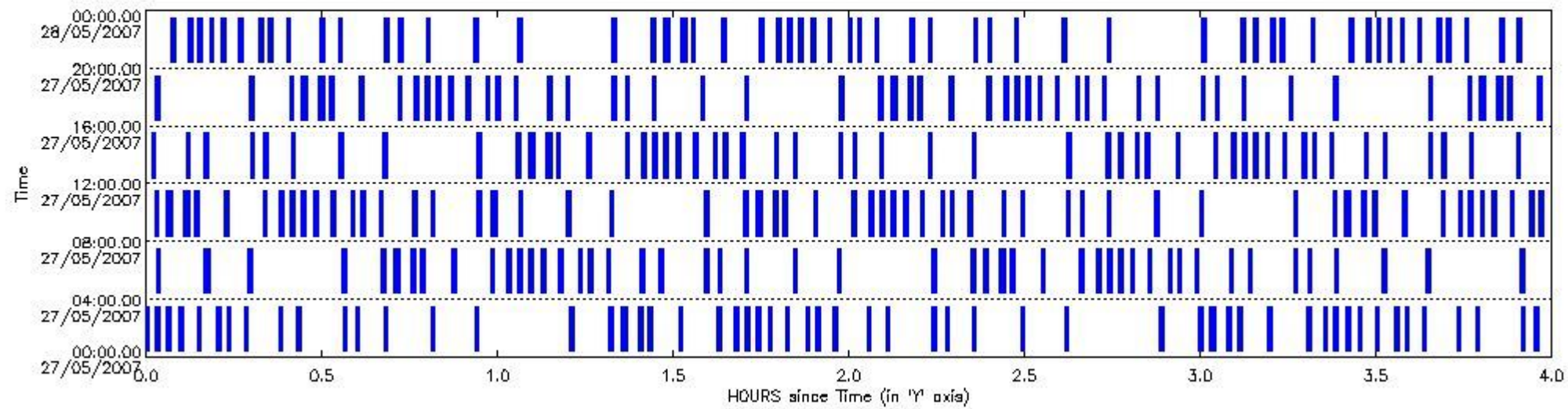
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

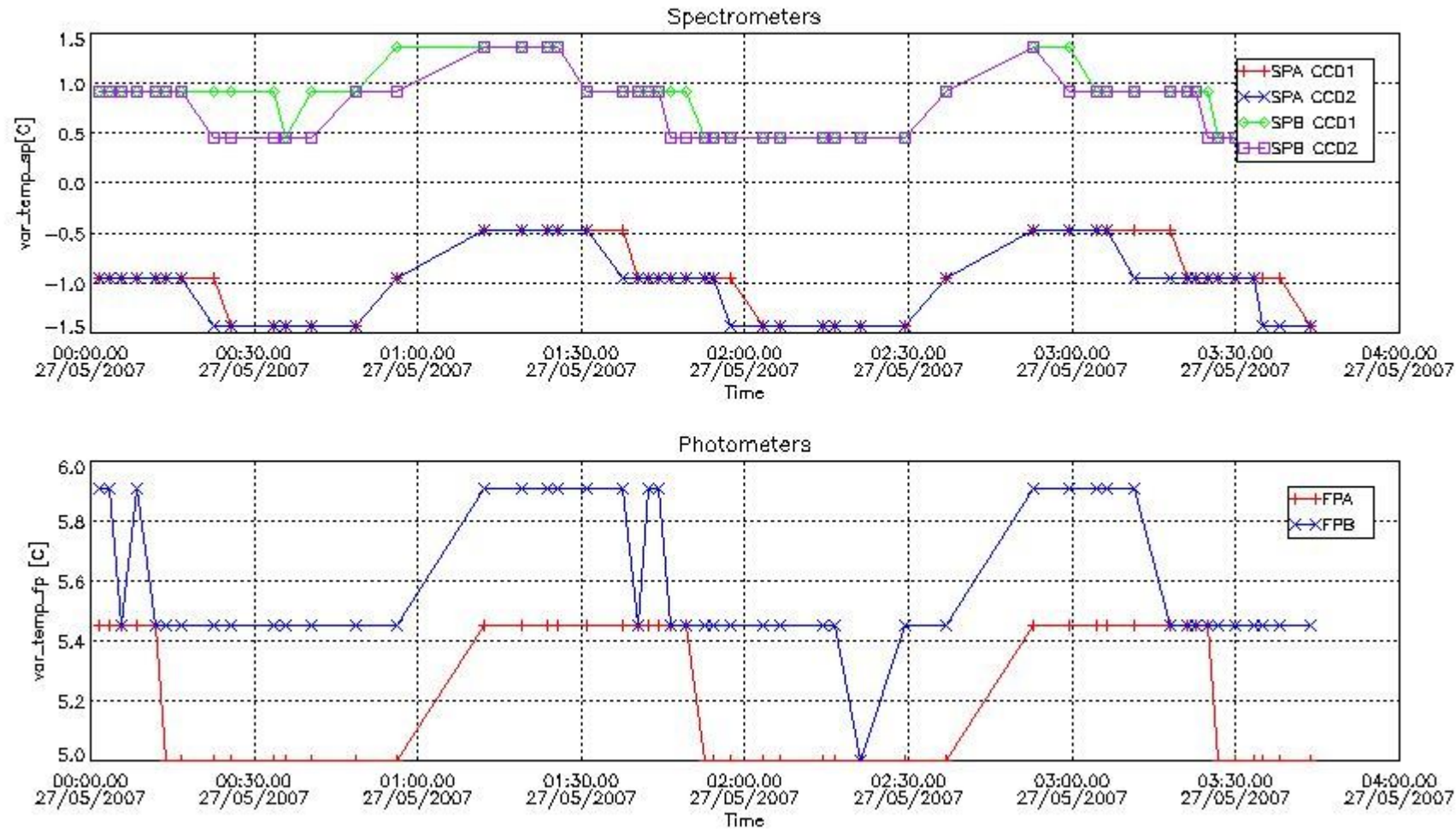
No missing products.

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_1PNPDE20070527_000133_000000462058_00274_27382_1545.N1	27-MAY-2007 00:01:33	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	27382	No
2	GOM_TRA_1PNPDE20070527_000330_000000462058_00274_27382_1546.N1	27-MAY-2007 00:03:30	Twilight_stray	46.000	75	26Eps Sco	2.2910	4250.0	92	27382	No
3	GOM_TRA_1PNPDE20070527_000537_000000442058_00274_27382_1547.N1	27-MAY-2007 00:05:37	Twilight_stray	44.000	136	23Tau Sco	2.8220	30000.	88	27382	No
4	GOM_TRA_1PNPDE20070527_000836_000000392058_00274_27382_1548.N1	27-MAY-2007 00:08:36	Bright	39.000	97	8Bet1Sco	2.5610	30000.	78	27382	No
5	GOM_TRA_1PNPDE20070527_001203_000000372058_00274_27382_1549.N1	27-MAY-2007 00:12:03	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	27382	No
6	GOM_TRA_1PNPDE20070527_001341_000000422058_00274_27382_1550.N1	27-MAY-2007 00:13:41	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	27382	No
7	GOM_TRA_1PNPDE20070527_001644_000000382058_00274_27382_1551.N1	27-MAY-2007 00:16:44	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	27382	No
8	GOM_TRA_1PNPDE20070527_002233_000000372058_00274_27382_1552.N1	27-MAY-2007 00:22:33	Bright	36.500	83		2.3780	11000.	73	27382	No
9	GOM_TRA_1PNPDE20070527_002544_000000352058_00274_27382_1553.N1	27-MAY-2007 00:25:44	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	27382	No
10	GOM_TRA_1PNPDE20070527_003334_000000392058_00274_27382_1554.N1	27-MAY-2007 00:33:34	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	27382	No
11	GOM_TRA_1PNPDE20070527_003554_000000342058_00274_27382_1555.N1	27-MAY-2007 00:35:54	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	27382	No
12	GOM_TRA_1PNPDE20070527_004031_000000332058_00274_27382_1556.N1	27-MAY-2007 00:40:31	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27382	No

13	GOM_TRA_1PNPDE20070527_004839_000000372058_00274_27382_1557.N1	27-MAY-2007 00:48:39	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	27382	No
14	GOM_TRA_1PNPDE20070527_005610_000000382058_00274_27382_1558.N1	27-MAY-2007 00:56:10	Bright	37.500	53	43Bet And	2.0480	3300.0	75	27382	No
15	GOM_TRA_1PNPDE20070527_011213_000000502058_00274_27382_1675.N1	27-MAY-2007 01:12:13	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	27382	No
16	GOM_TRA_1PNPDE20070527_011859_000000432058_00274_27382_1676.N1	27-MAY-2007 01:18:59	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	27382	No
17	GOM_TRA_1PNPDE20070527_012354_000000592058_00275_27383_1677.N1	27-MAY-2007 01:23:54	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	27383	No
18	GOM_TRA_1PNPDE20070527_012539_000000452058_00275_27383_1678.N1	27-MAY-2007 01:25:39	Dark	45.000	31	Alp Gru	1.7340	15200.	90	27383	No
19	GOM_TRA_1PNPDE20070527_013055_000000422058_00275_27383_1679.N1	27-MAY-2007 01:30:55	Dark	42.000	45	Alp Pav	1.9400	26000.	84	27383	No
20	GOM_TRA_1PNPDE20070527_013729_000000412058_00275_27383_1680.N1	27-MAY-2007 01:37:29	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27383	No
21	GOM_TRA_1PNPDE20070527_014020_000000452058_00275_27383_1681.N1	27-MAY-2007 01:40:20	Straylight	45.000	40	The Sco	1.8590	7100.0	90	27383	No
22	GOM_TRA_1PNPDE20070527_014210_000000492058_00275_27383_1682.N1	27-MAY-2007 01:42:10	Straylight	49.000	25	35Lam Sco	1.6200	28000.	98	27383	No
23	GOM_TRA_1PNPDE20070527_014406_000000472058_00275_27383_1683.N1	27-MAY-2007 01:44:06	Tw_i_and_stray	46.500	75	26Eps Sco	2.2910	4250.0	93	27383	No
24	GOM_TRA_1PNPDE20070527_014613_000000412058_00275_27383_1684.N1	27-MAY-2007 01:46:13	Tw_i_and_stray	41.000	136	23Tau Sco	2.8220	30000.	82	27383	No
25	GOM_TRA_1PNPDE20070527_014912_000000392058_00275_27383_1685.N1	27-MAY-2007 01:49:12	Bright	39.000	97	8Bet1Sco	2.5610	30000.	78	27383	No
26	GOM_TRA_1PNPDE20070527_015239_000000382058_00275_27383_1686.N1	27-MAY-2007 01:52:39	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	27383	No
27	GOM_TRA_1PNPDE20070527_015417_000000422058_00275_27383_1687.N1	27-MAY-2007 01:54:17	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	27383	No
28	GOM_TRA_1PNPDE20070527_015720_000000392058_00275_27383_1688.N1	27-MAY-2007 01:57:20	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	27383	No
29	GOM_TRA_1PNPDE20070527_020309_000000372058_00275_27383_1689.N1	27-MAY-2007 02:03:09	Bright	36.500	83		2.3780	11000.	73	27383	No
30	GOM_TRA_1PNPDE20070527_020620_000000352058_00275_27383_1690.N1	27-MAY-2007 02:06:20	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	27383	No
31	GOM_TRA_1PNPDE20070527_021410_000000382058_00275_27383_1691.N1	27-MAY-2007 02:14:10	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	27383	No
32	GOM_TRA_1PNPDE20070527_021629_000000352058_00275_27383_1692.N1	27-MAY-2007 02:16:29	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	27383	No
33	GOM_TRA_1PNPDE20070527_022107_000000342058_00275_27383_1693.N1	27-MAY-2007 02:21:07	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	27383	No
34	GOM_TRA_1PNPDE20070527_022915_000000382058_00275_27383_1858.N1	27-MAY-2007 02:29:15	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	27383	No
35	GOM_TRA_1PNPDE20070527_023646_000000402058_00275_27383_1859.N1	27-MAY-2007 02:36:46	Bright	39.500	53	43Bet And	2.0480	3300.0	79	27383	No
36	GOM_TRA_1PNPDE20070527_025250_000000482058_00275_27383_1860.N1	27-MAY-2007 02:52:50	Dark	48.000	52	16Bet Cet	2.0370	4500.0	96	27383	No
37	GOM_TRA_1PNPDE20070527_025935_000000452058_00275_27383_1861.N1	27-MAY-2007 02:59:35	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	27383	No
38	GOM_TRA_1PNPDE20070527_030431_000000462058_00276_27384_1862.N1	27-MAY-2007 03:04:31	Dark	46.000	63	Bet Gru	2.1500	2800.0	92	27384	No
39	GOM_TRA_1PNPDE20070527_030616_000000462058_00276_27384_1863.N1	27-MAY-2007 03:06:16	Dark	46.000	31	Alp Gru	1.7340	15200.	92	27384	No
40	GOM_TRA_1PNPDE20070527_031131_000000432058_00276_27384_1864.N1	27-MAY-2007 03:11:31	Dark	42.500	45	Alp Pav	1.9400	26000.	85	27384	No
41	GOM_TRA_1PNPDE20070527_031806_000000442058_00276_27384_1865.N1	27-MAY-2007 03:18:06	Straylight	43.500	141	Bet Ara	2.8400	4600.0	87	27384	No
42	GOM_TRA_1PNPDE20070527_032056_000000452058_00276_27384_1866.N1	27-MAY-2007 03:20:56	Straylight	45.000	40	The Sco	1.8590	7100.0	90	27384	No
43	GOM_TRA_1PNPDE20070527_032246_000000492058_00276_27384_1867.N1	27-MAY-2007 03:22:46	Straylight	48.500	25	35Lam Sco	1.6200	28000.	97	27384	No
44	GOM_TRA_1PNPDE20070527_032442_000000482058_00276_27384_1868.N1	27-MAY-2007 03:24:42	Tw_i_and_stray	48.000	75	26Eps Sco	2.2910	4250.0	96	27384	No
45	GOM_TRA_1PNPDE20070527_032650_000000432058_00276_27384_1869.N1	27-MAY-2007 03:26:50	Tw_i_and_stray	42.500	136	23Tau Sco	2.8220	30000.	85	27384	No
46	GOM_TRA_1PNPDE20070527_032948_000000402058_00276_27384_1870.N1	27-MAY-2007 03:29:48	Bright	40.000	97	8Bet1Sco	2.5610	30000.	80	27384	No
47	GOM_TRA_1PNPDE20070527_033315_000000372058_00276_27384_1871.N1	27-MAY-2007 03:33:15	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	27384	No
48	GOM_TRA_1PNPDE20070527_033453_000000432058_00276_27384_1872.N1	27-MAY-2007 03:34:53	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	27384	No
49	GOM_TRA_1PNPDE20070527_033756_000000382058_00276_27384_1873.N1	27-MAY-2007 03:37:56	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	27384	No
50	GOM_TRA_1PNPDE20070527_034345_000000342058_00276_27384_1874.N1	27-MAY-2007 03:43:45	Bright	34.000	83		2.3780	11000.	68	27384	No

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



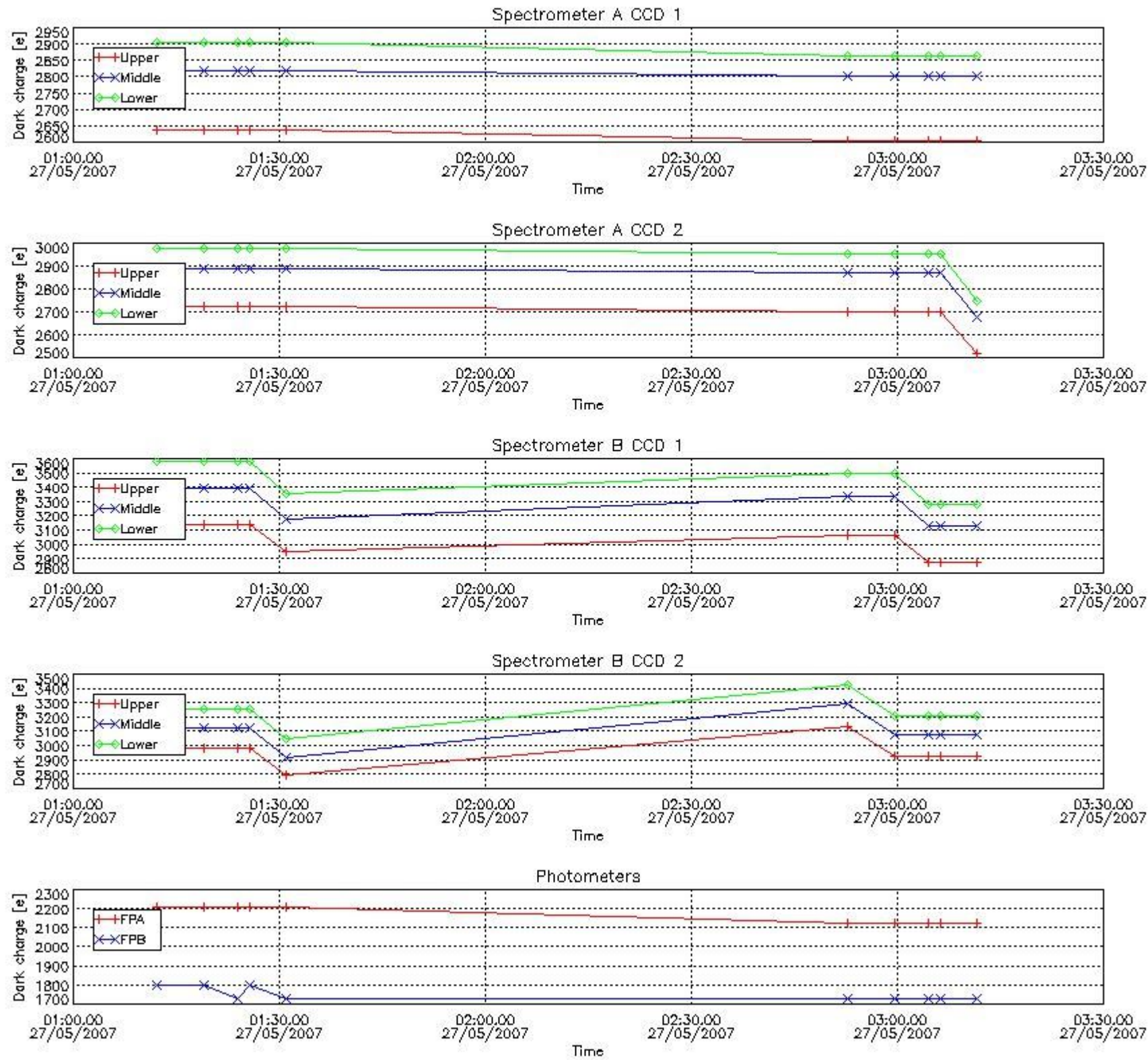
4. Overview of dark signal processing per product

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



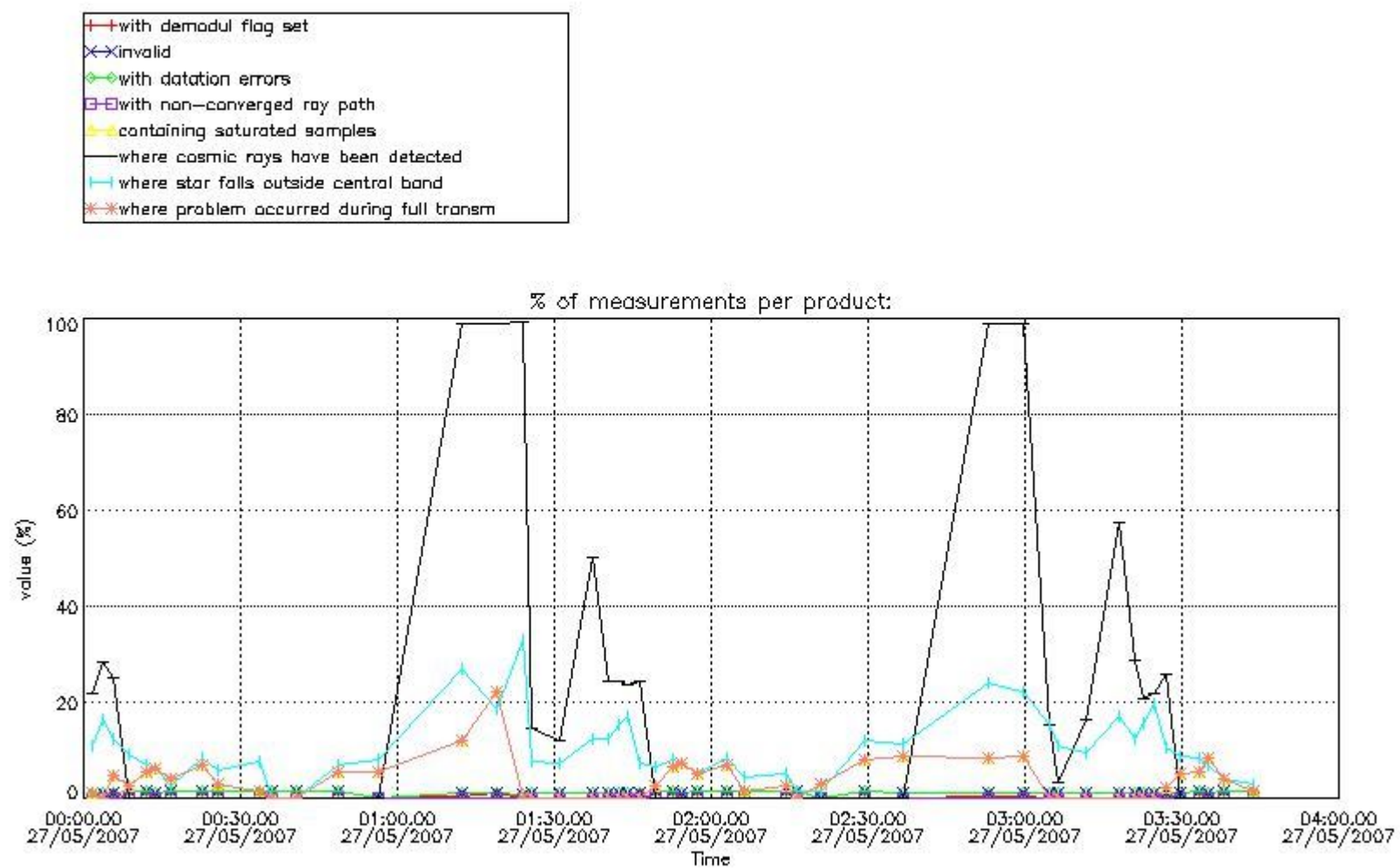
5. Demodulation flag and quality information monitoring

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.

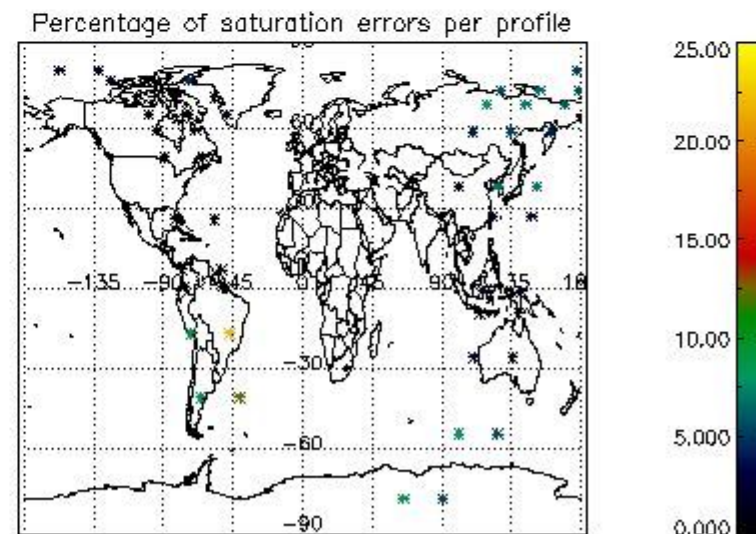
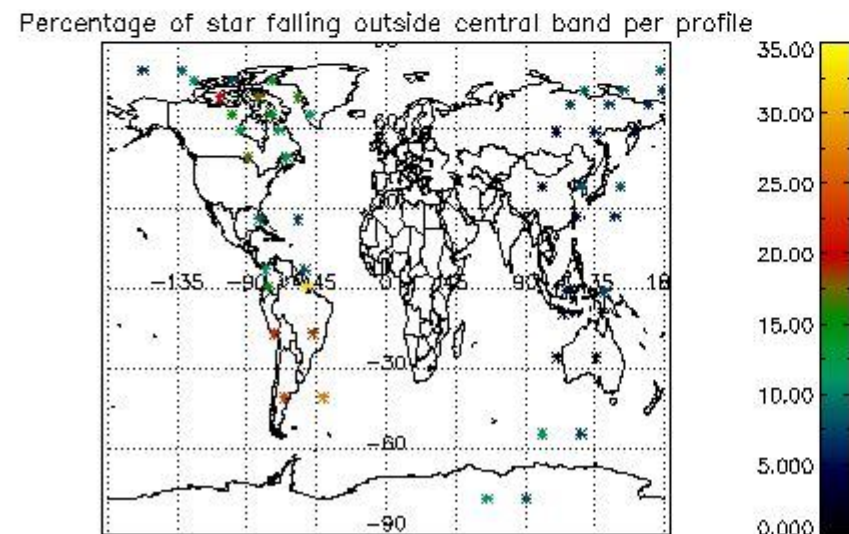
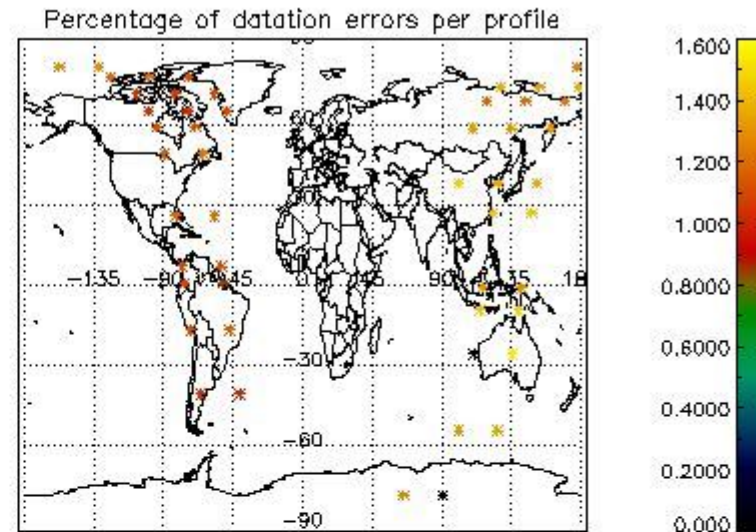
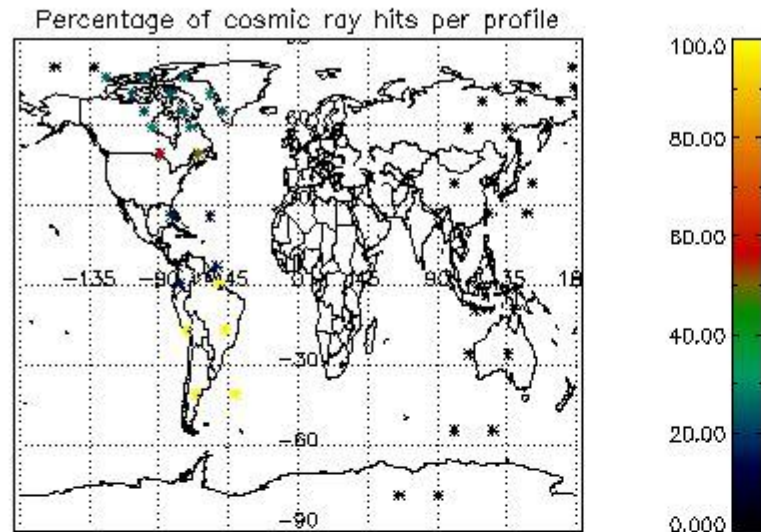
5.1 Percentage of products during reporting period with:

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)



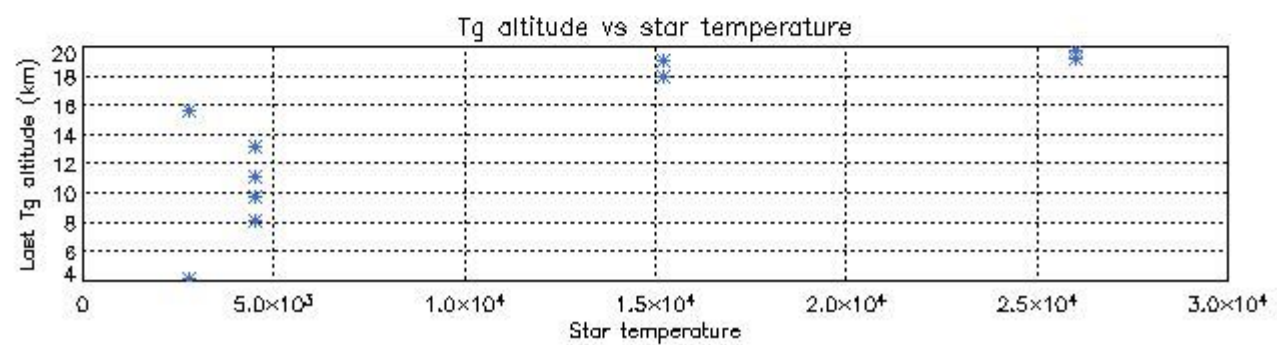
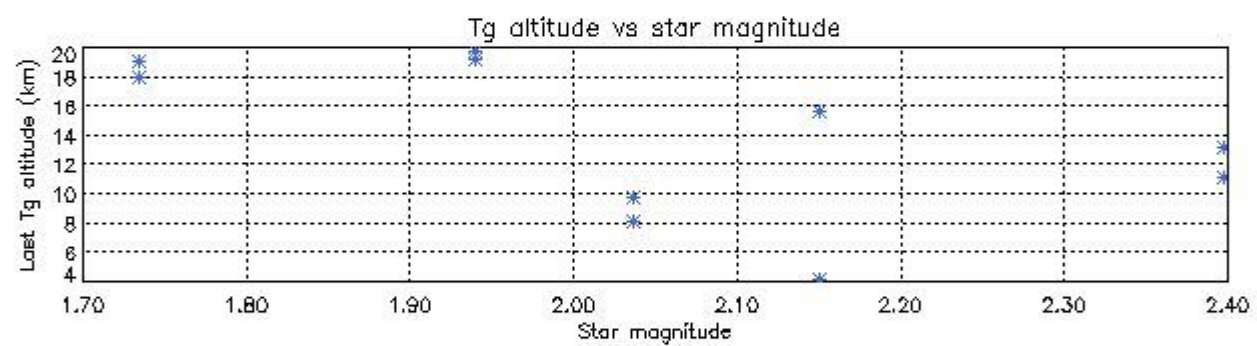
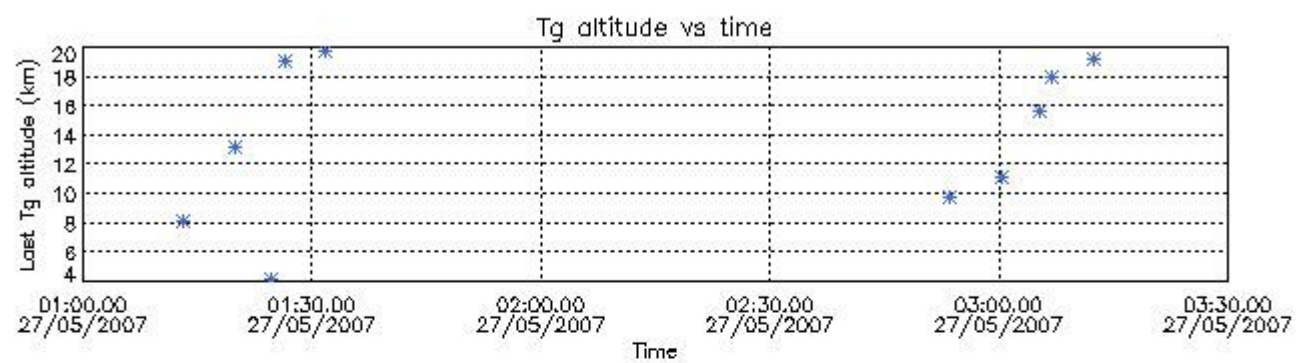
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.773	21.464	NaN
St. deviation:	5.3791	2.6043	NaN
Maximum:	19.783	28.628	NaN
Minimum:	4.1336	17.275	NaN
Number of data:	10.000	27.000	NaN

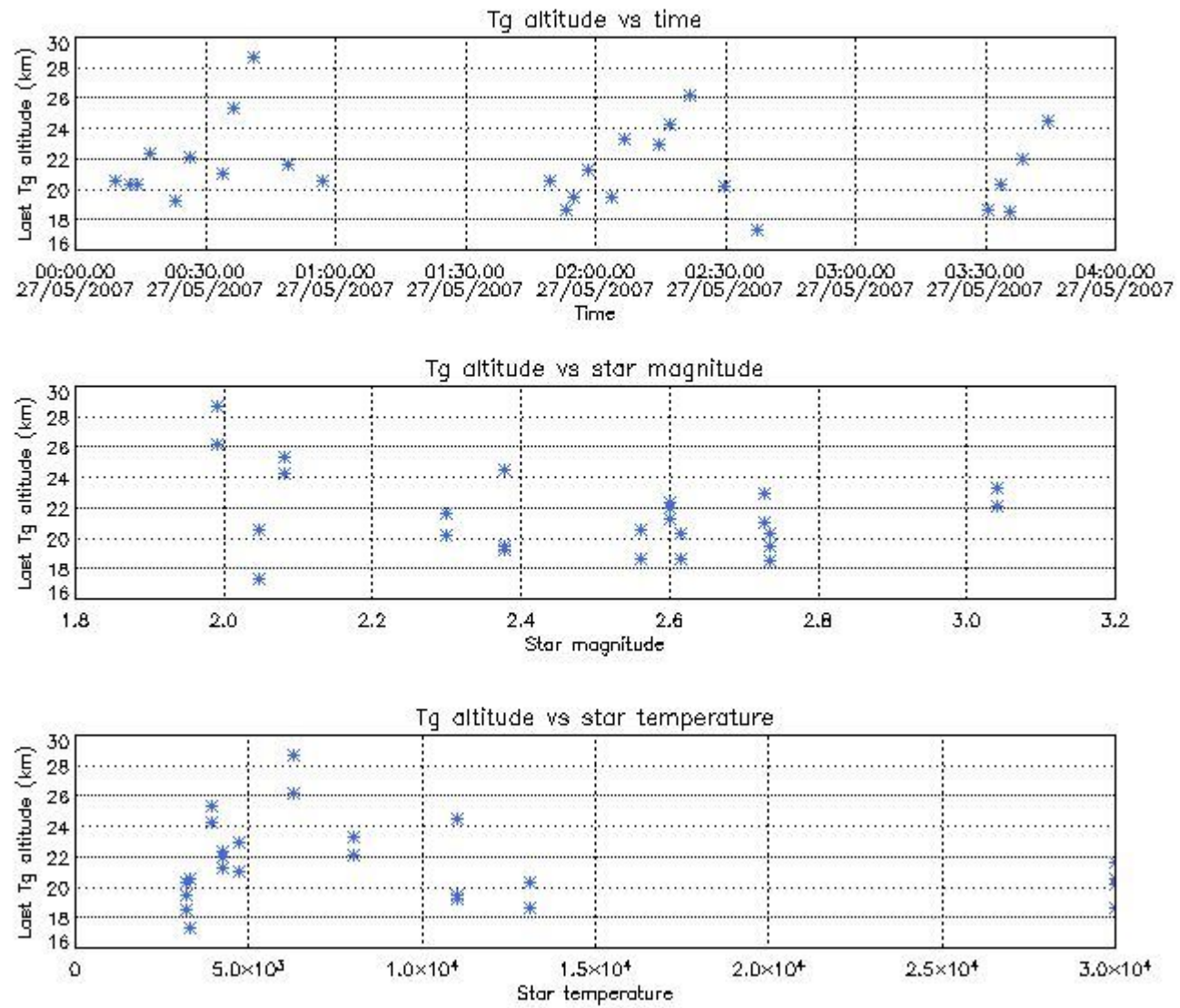
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

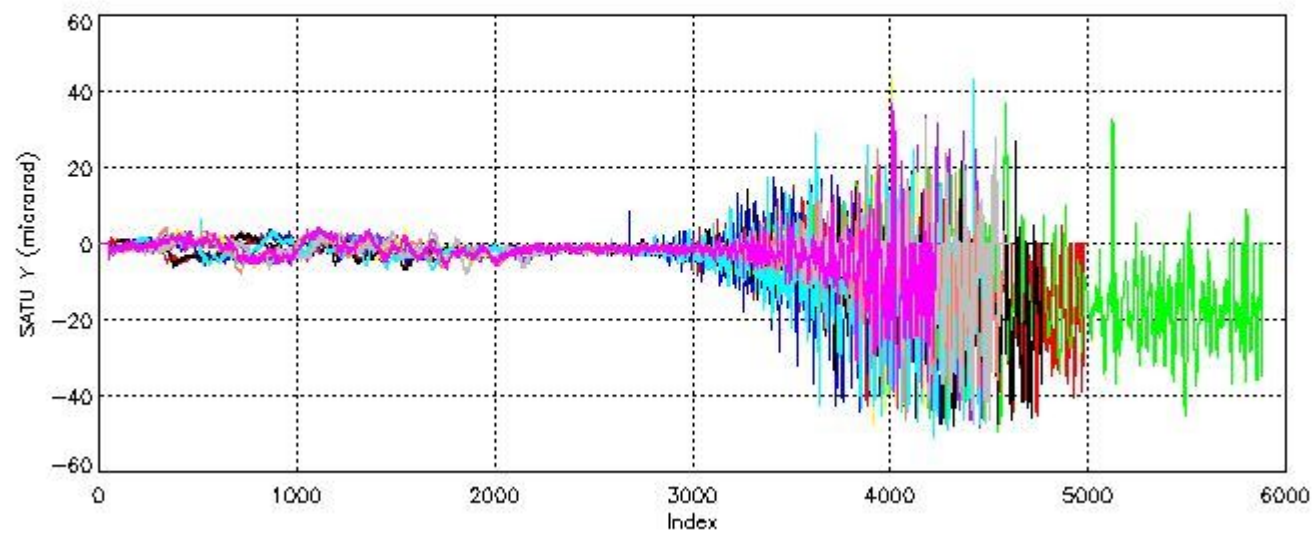
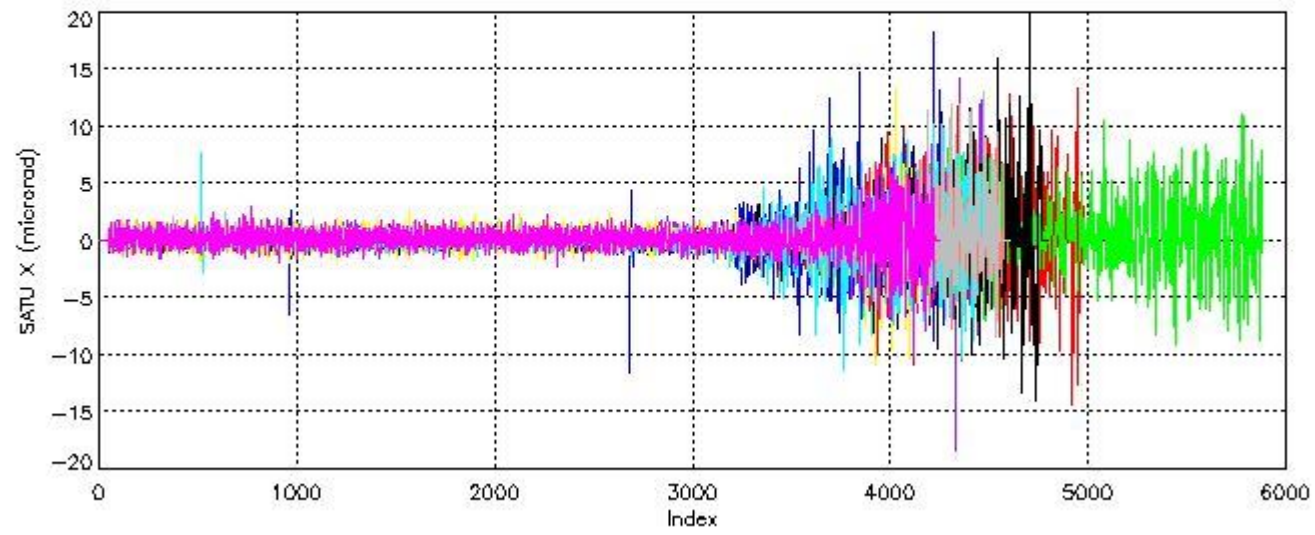


7. Star Acquisition and Tracking Unit (SATU)

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:	0.16854	-1.1020	0.17311	-0.98727
St. deviation:	0.40390	1.9554	0.72269	2.3192
Maximum:	7.7000	6.3000	5.8000	5.8000
Minimum:	-2.8000	-7.8000	-4.5000	-9.3000

Number of data:	10000.	10000.	23000.	23000.
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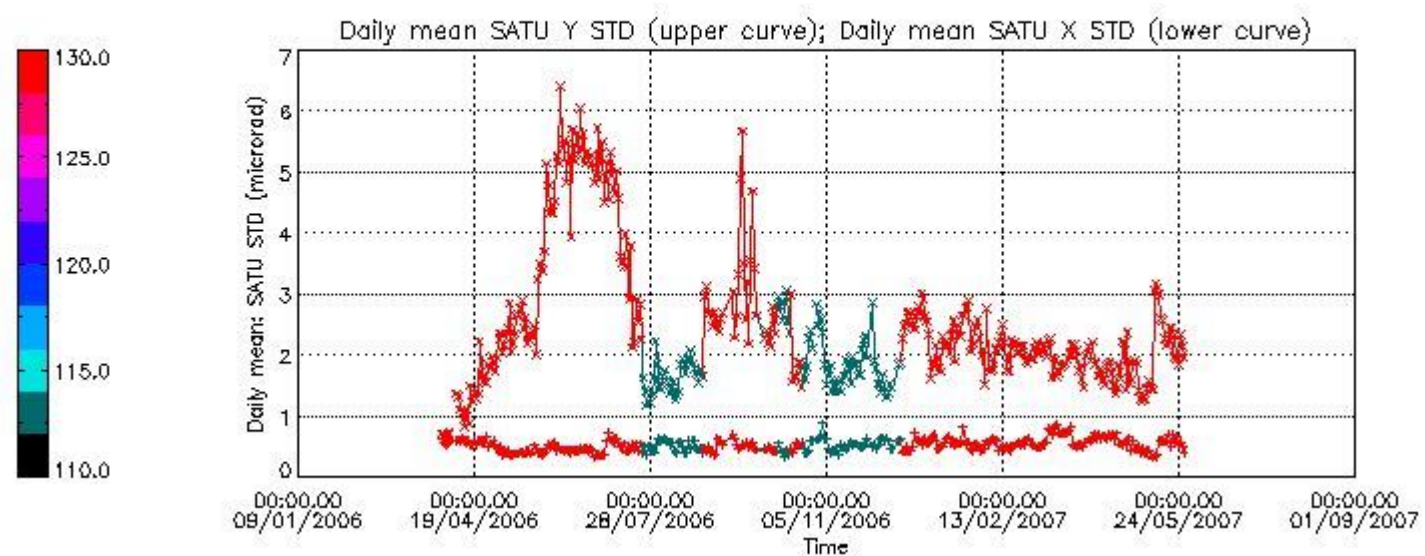
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

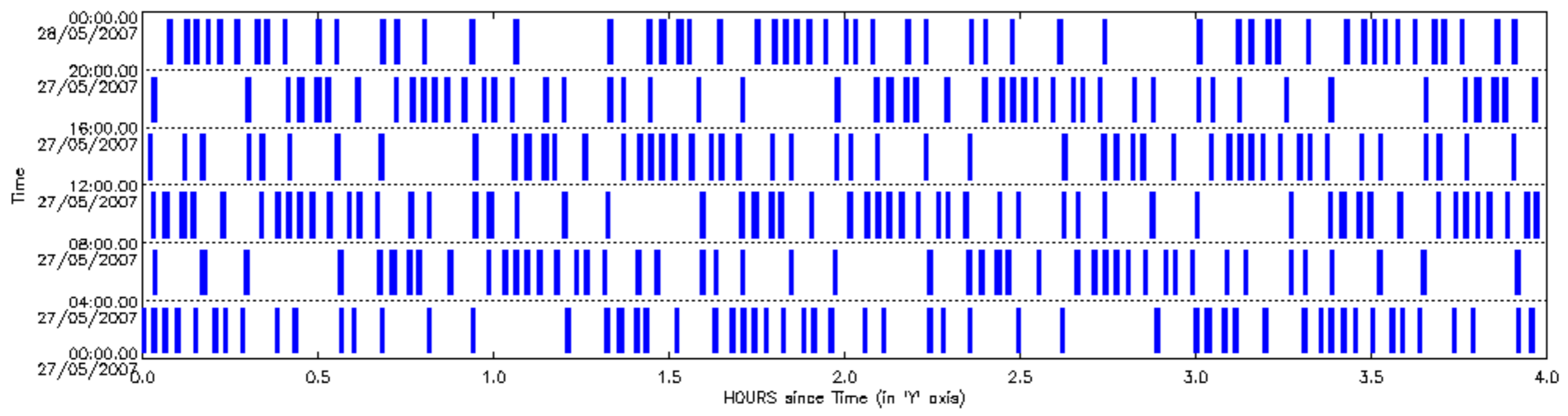
Lower curve: STD of SATU X axis

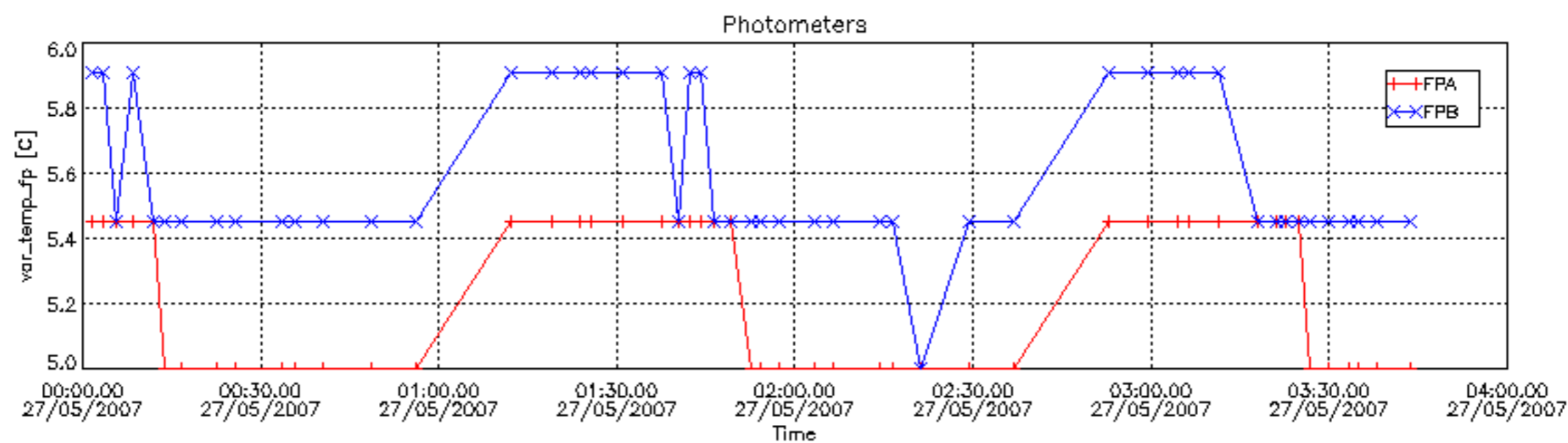
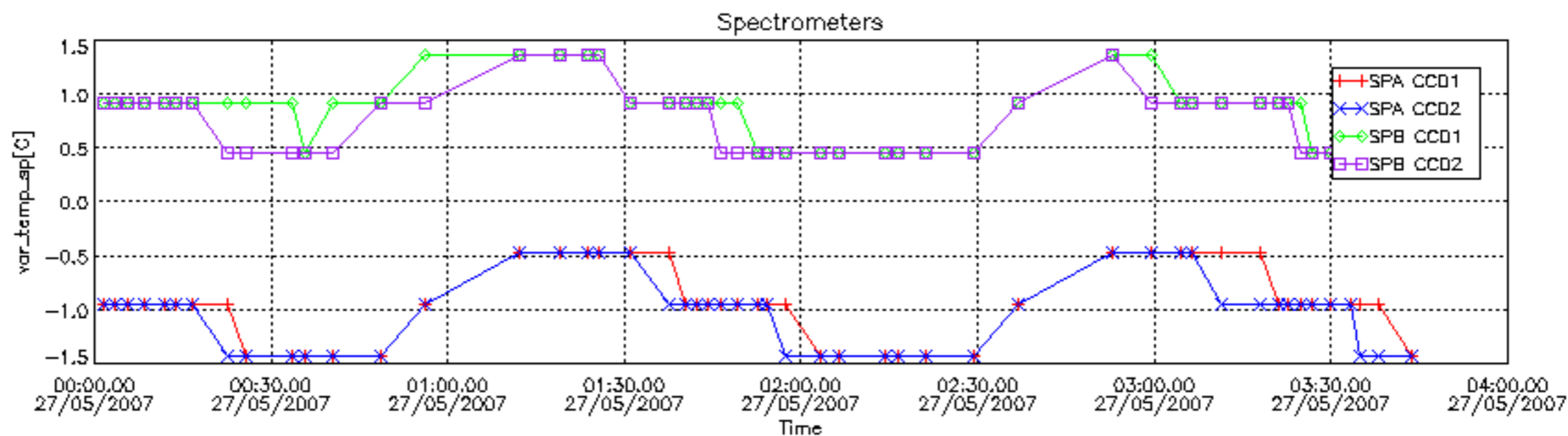


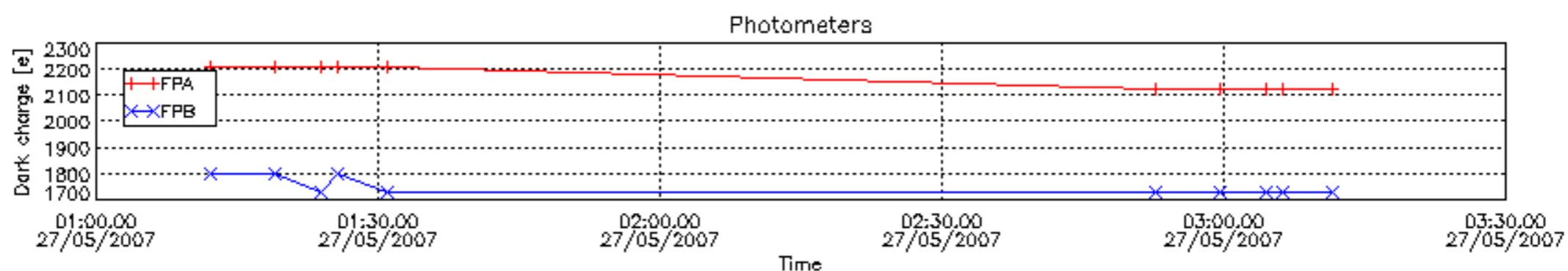
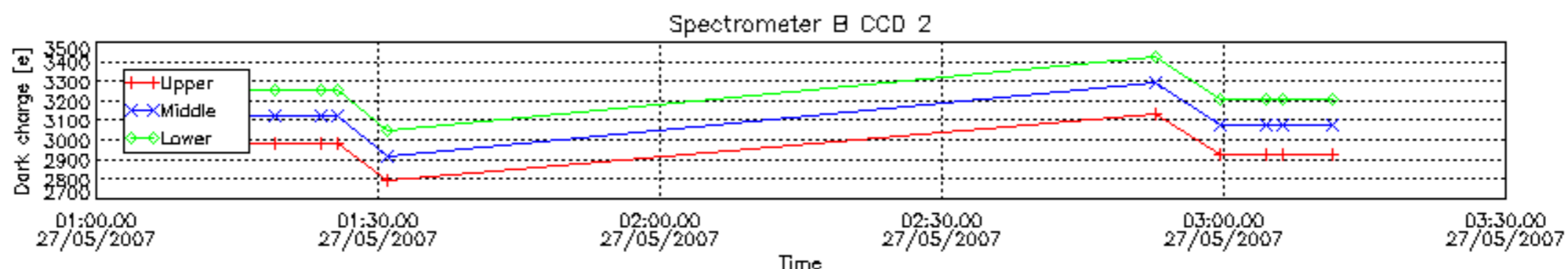
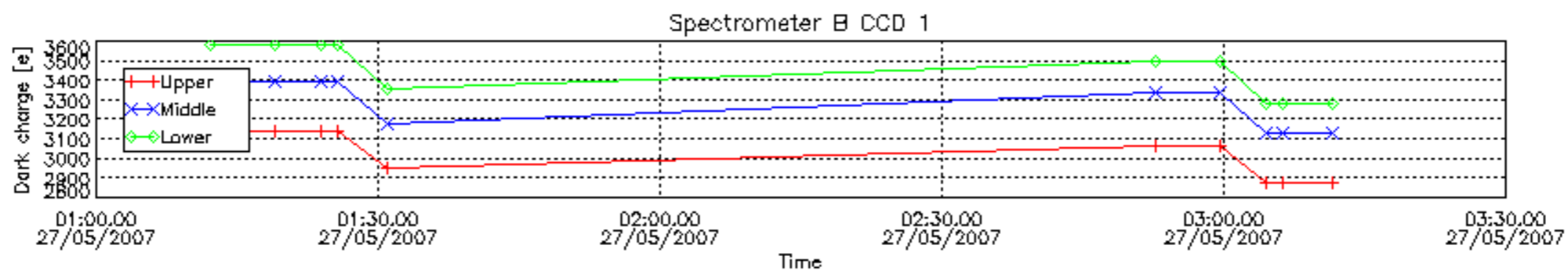
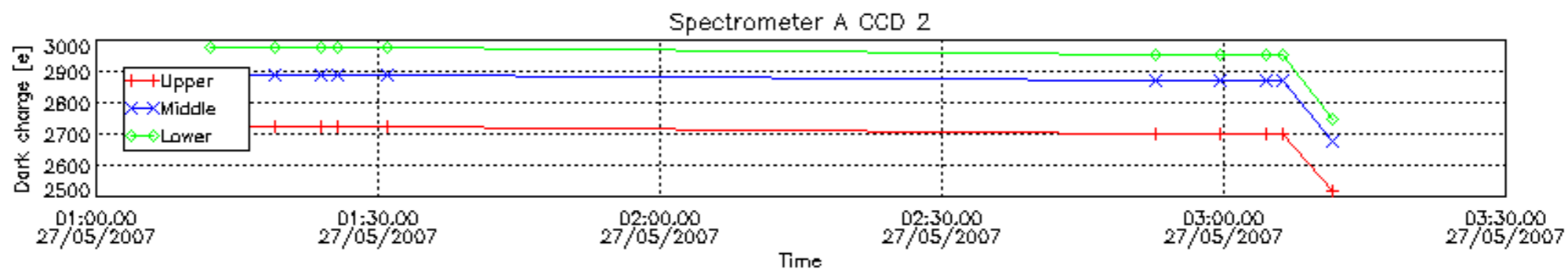
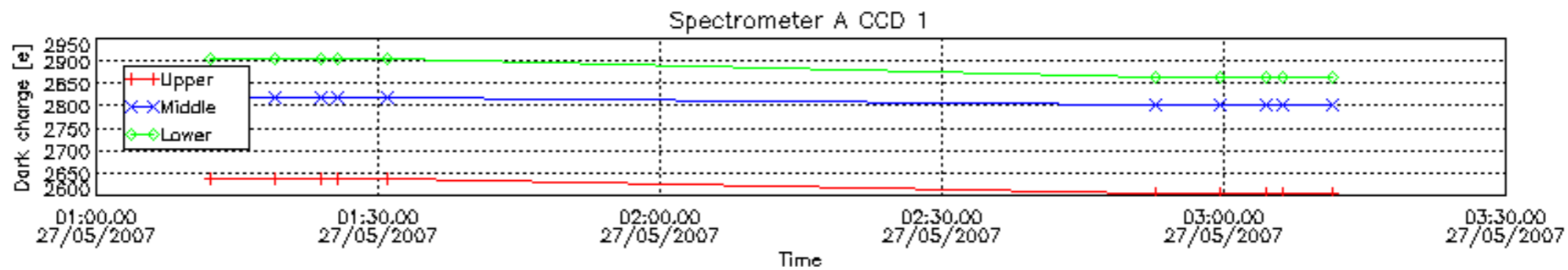
8. Auxiliary Data Files used for the production reported in section 2.4

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.

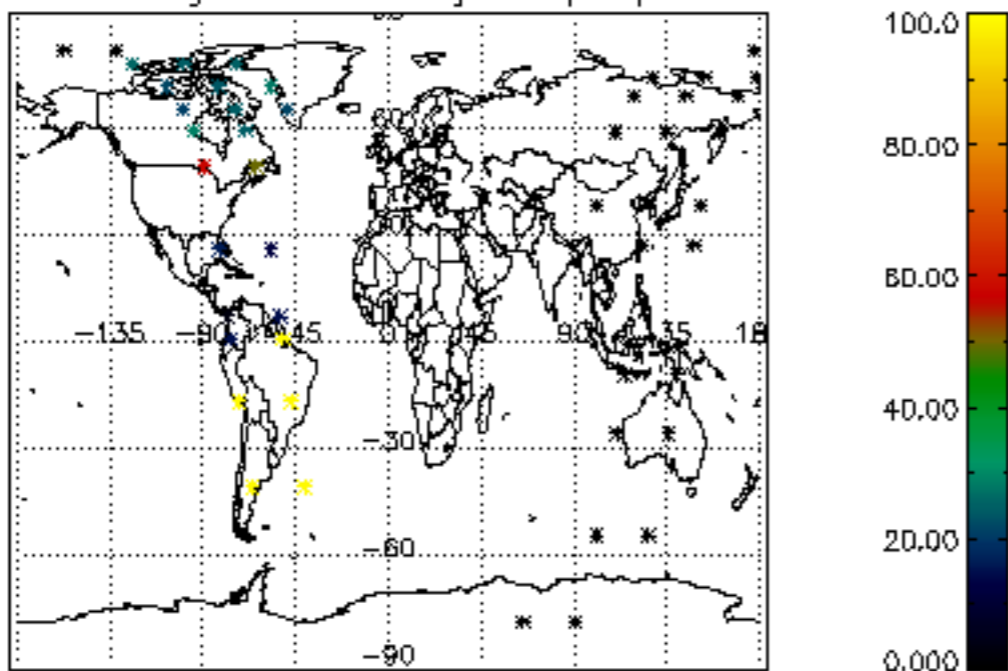
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-MAY-2007 00:01:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070525_094239_20070524_000000_20100101_000000	1	27-MAY-2007 00:01:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-MAY-2007 00:01:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-MAY-2007 00:01:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-MAY-2007 00:01:33
ECMWF_FILE	AUX_ECF_AXNECM20070526_062110_20070526_210000_20070527_090000	1	27-MAY-2007 00:01:33
OPTIONAL_ECMWF_FILE	MISSING	1	27-MAY-2007 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070526_214329_000060572058_00272_27380_3563.N1	1	27-MAY-2007 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070526_232945_000057382058_00273_27381_3564.N1	15	27-MAY-2007 01:12:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070527_011042_000038252058_00274_27382_3565.N1	34	27-MAY-2007 02:29:15



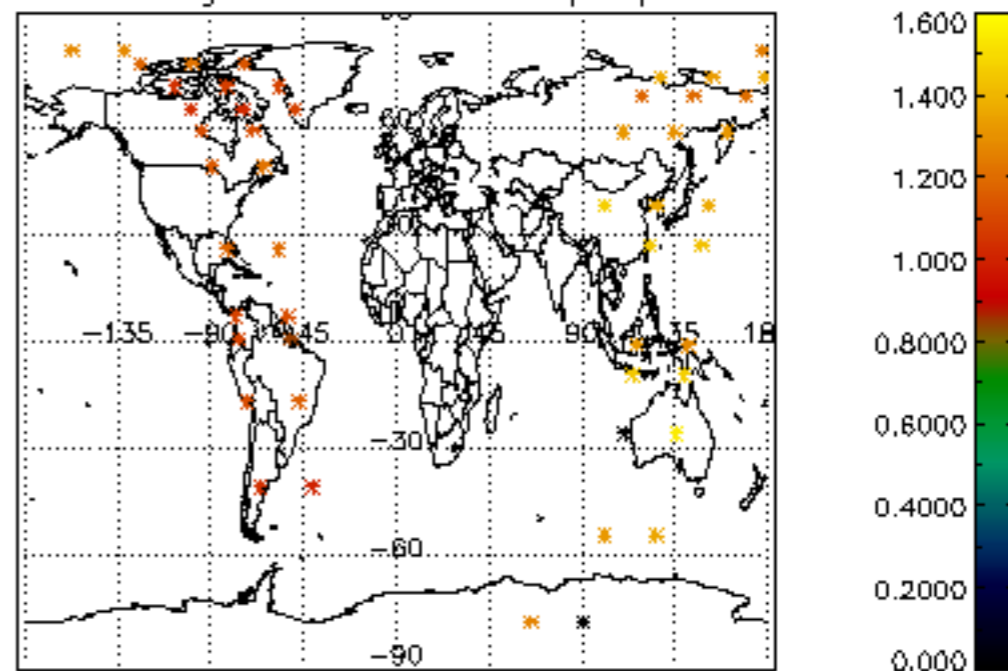




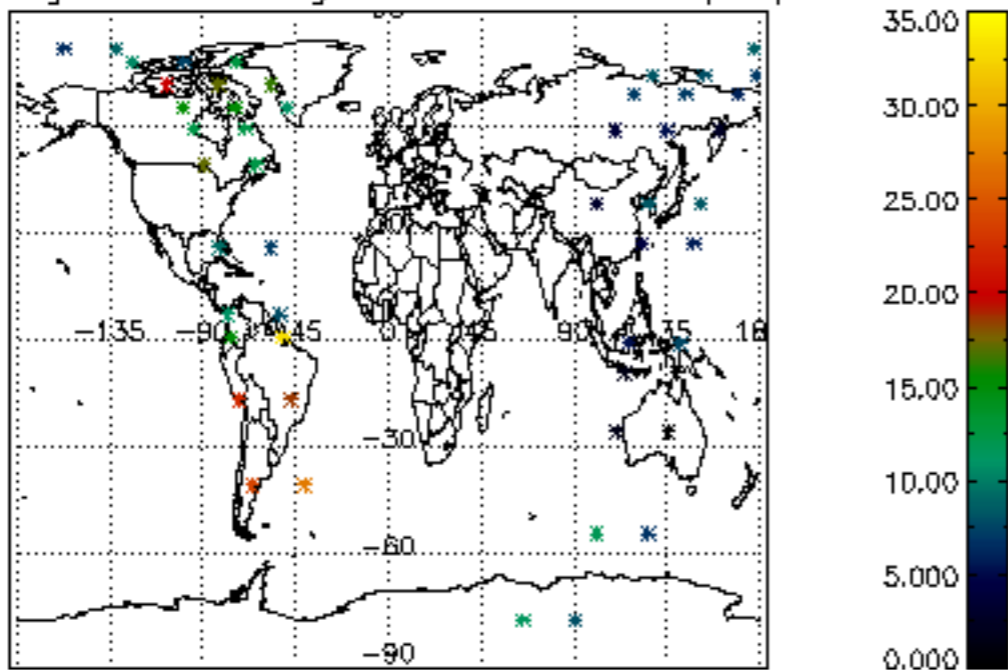
Percentage of cosmic ray hits per profile



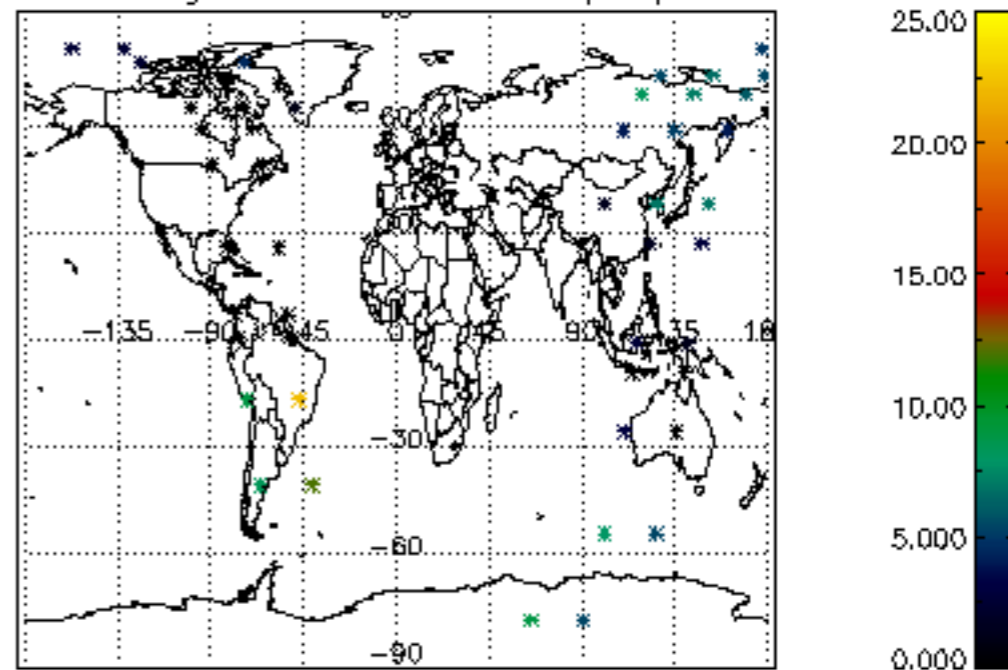
Percentage of datation errors per profile



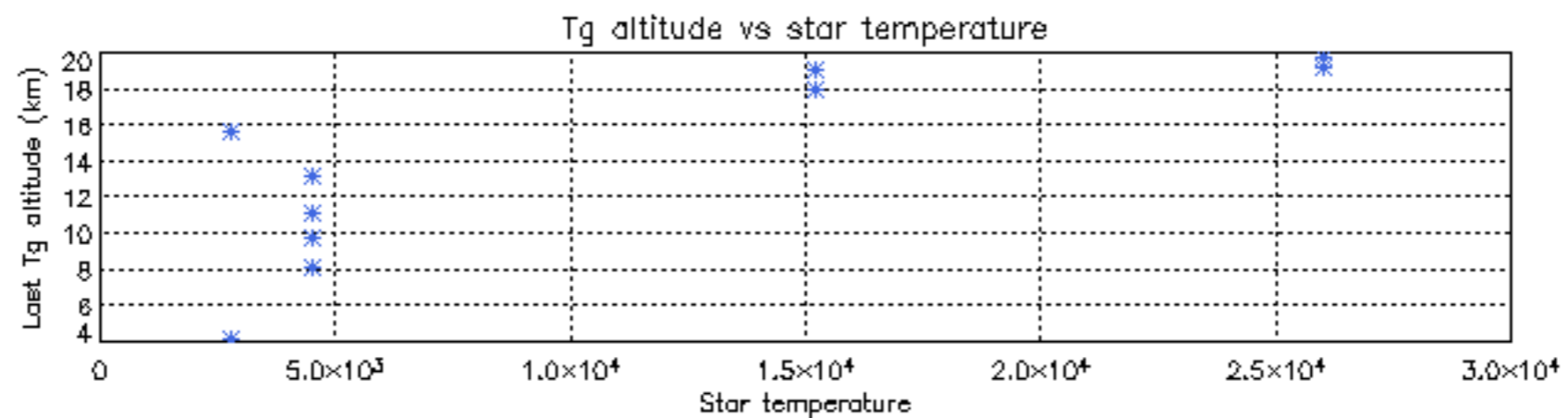
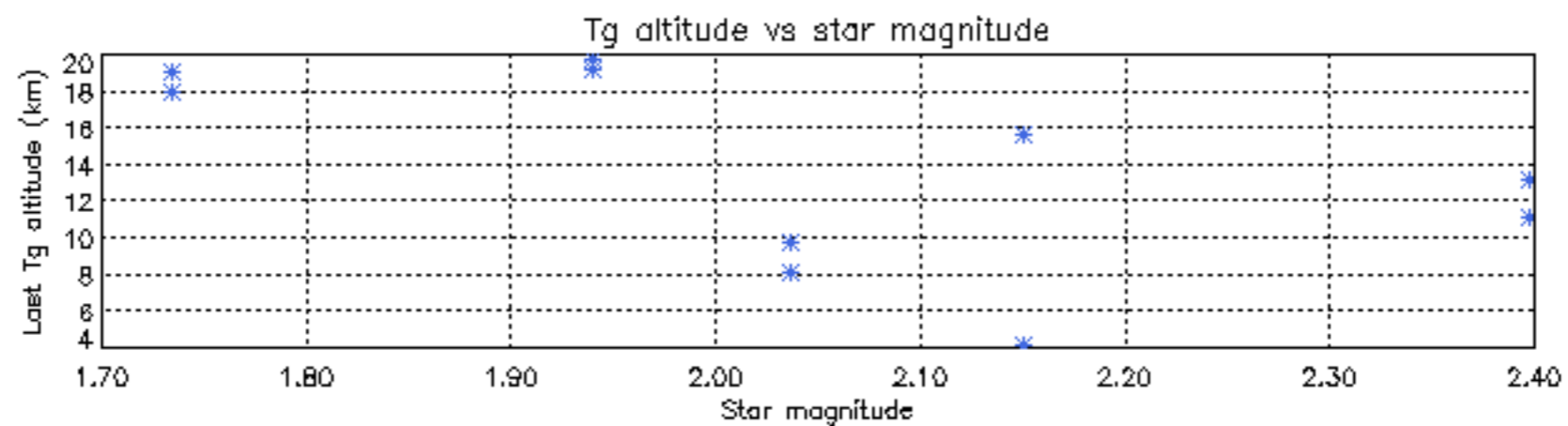
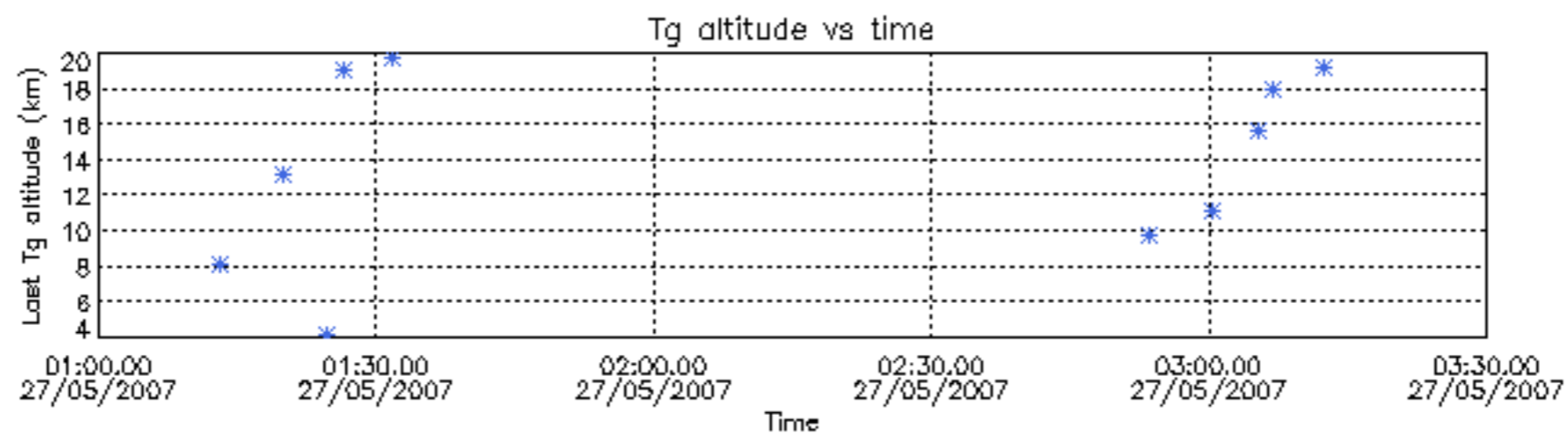
Percentage of star falling outside central band per profile



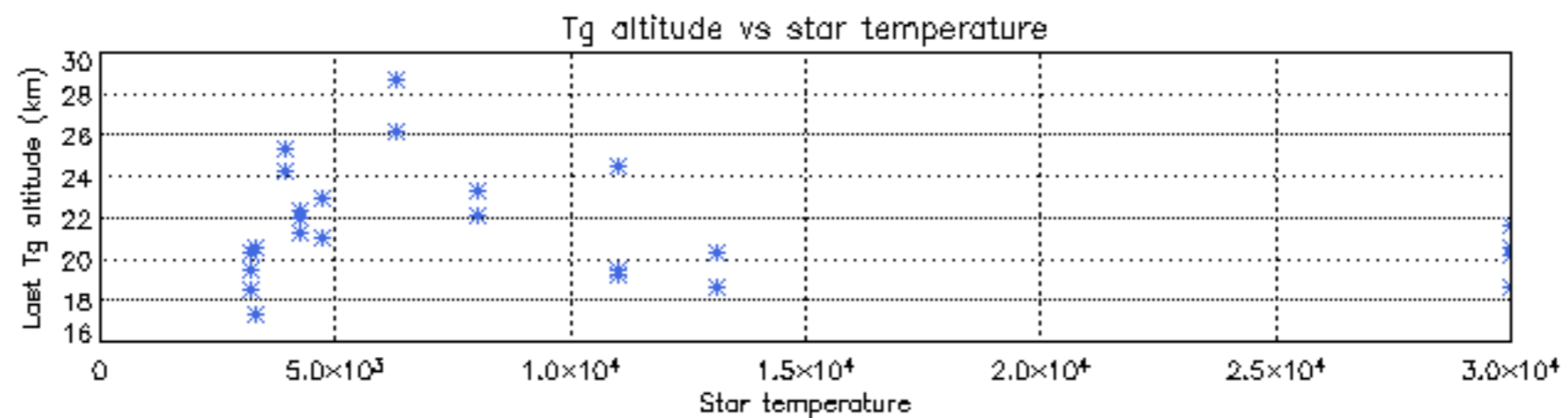
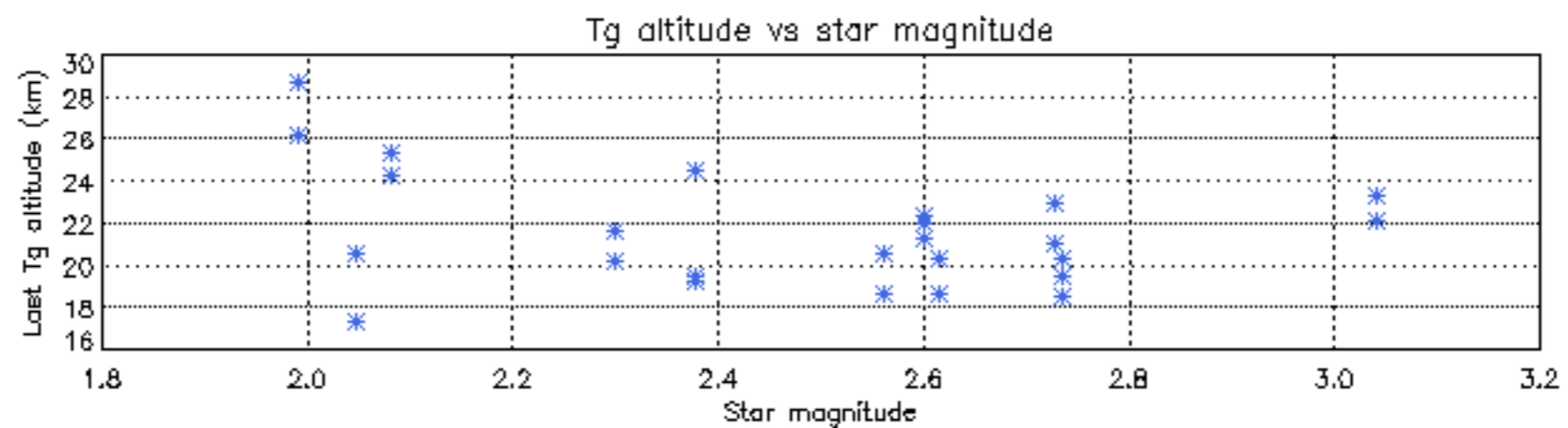
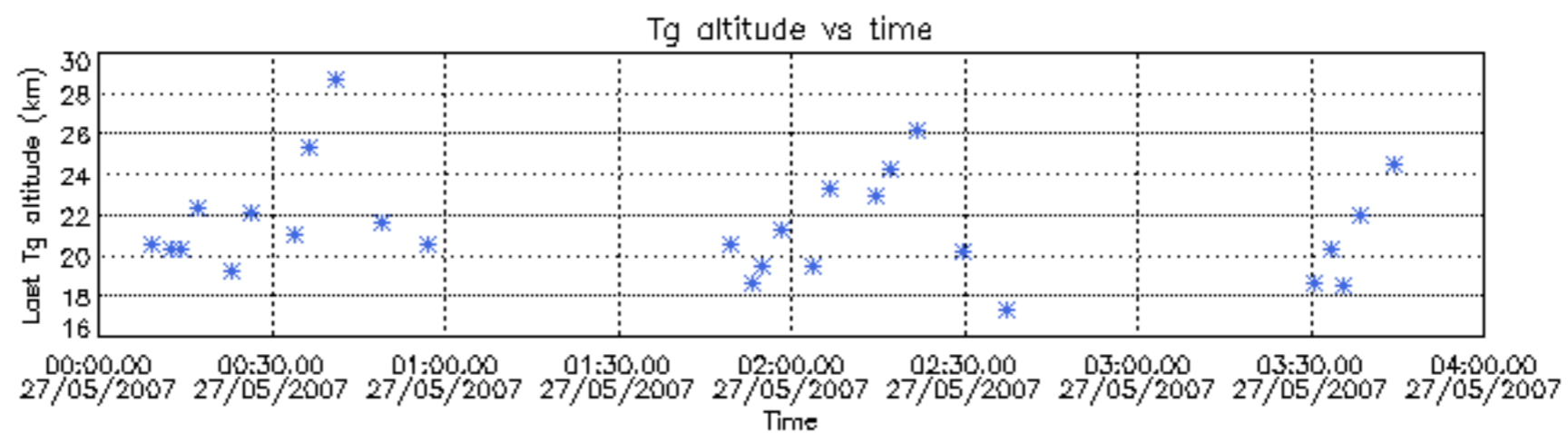
Percentage of saturation errors per profile

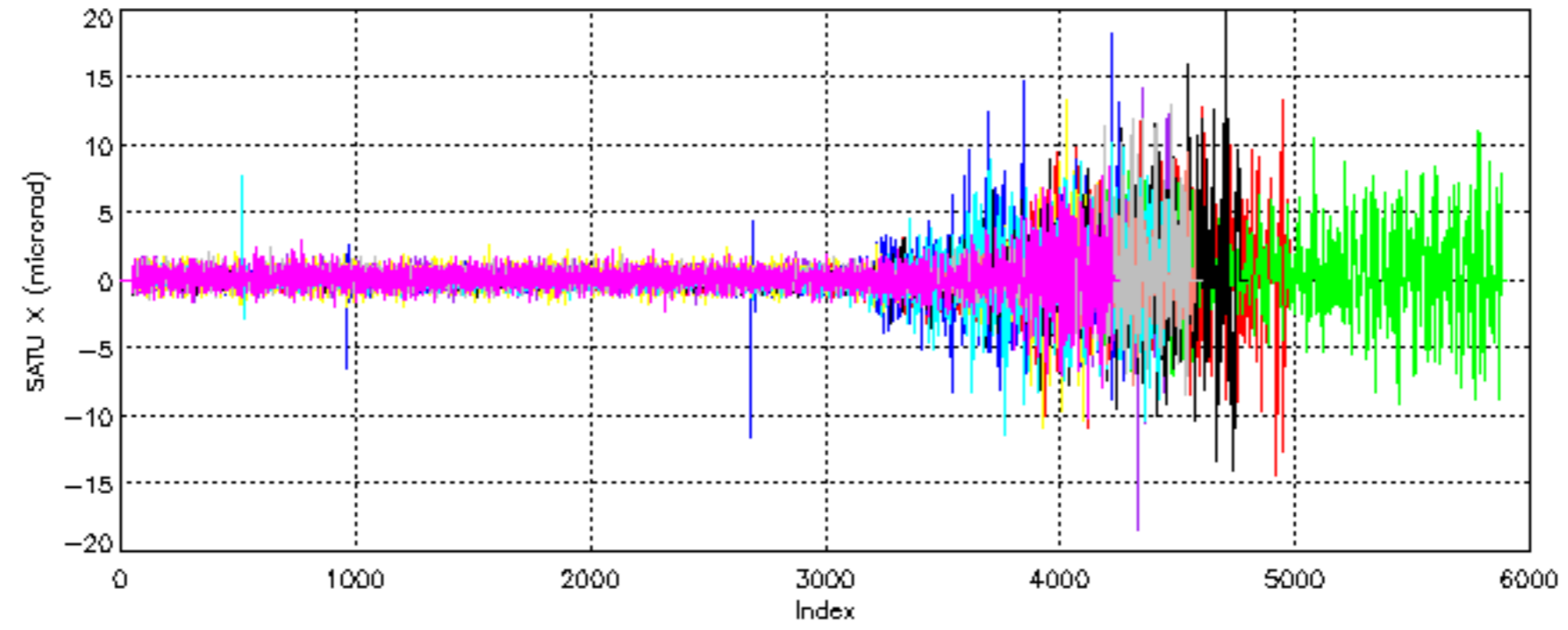


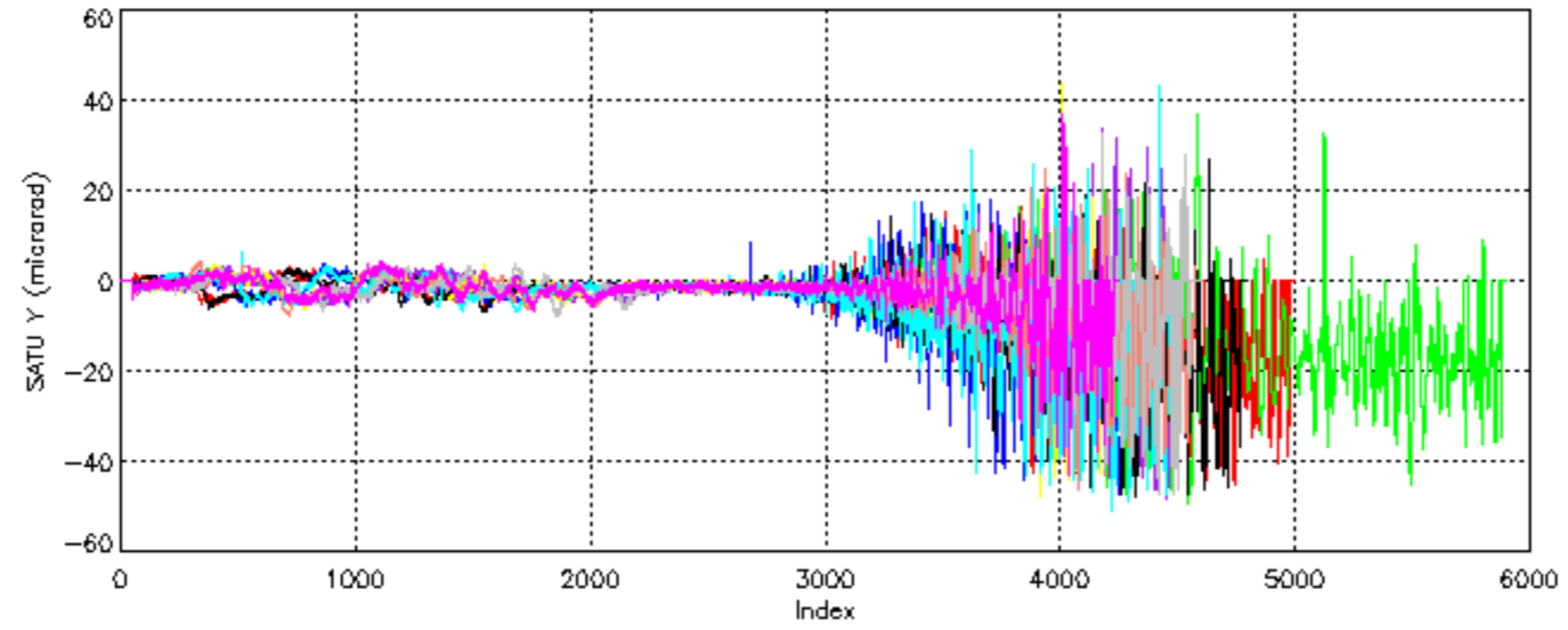
Tangent altitude at which the star is lost

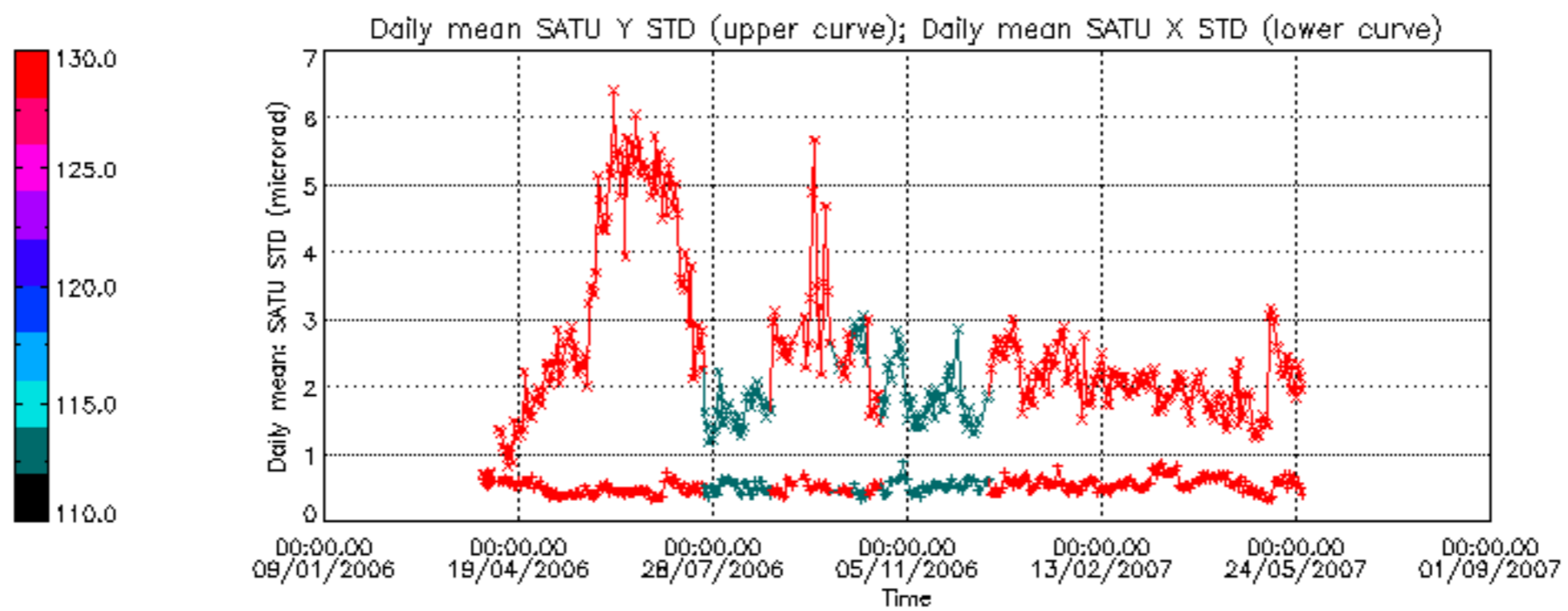


Tangent altitude at which the star is lost









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 3; 7.7; 01-MAY-2007 01:41:01; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;27011
 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
 7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 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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 7; 178.5; 01-MAY-2007 03:24:27; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27012
 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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 17; 2095.5; 01-MAY-2007 03:56:24; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27012
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 3; -127.3; 03-MAY-2007 22:23:19; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;27051
 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
 7; 1048.9; 03-MAY-2007 22:42:55; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27052
 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
 10; 1518.9; 03-MAY-2007 22:50:45; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27052
 11; 1716.6; 03-MAY-2007 22:54:03; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27052
 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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 16; 2927.8; 03-MAY-2007 23:14:14; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27052
 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

9; 1141.4; 04-MAY-2007 00:25:04; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27053
 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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 2; -2033.1; 03-MAY-2007 06:46:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27042
 3; -480.0; 03-MAY-2007 07:12:03; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;27042
 4; -305.2; 03-MAY-2007 07:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27042
 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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 4; -305.2; 03-MAY-2007 07:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27042
 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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 2; 1901.2; 03-MAY-2007 07:51:44; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27043
 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
 9; 3922.2; 03-MAY-2007 08:25:25; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27043
 10; 4003.0; 03-MAY-2007 08:26:46; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27043
 11; 5556.4; 03-MAY-2007 08:52:39; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;27043
 12; 5731.0; 03-MAY-2007 08:55:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27043
 13; 5904.1; 03-MAY-2007 08:58:27; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27043
 14; 6055.8; 03-MAY-2007 09:00:59; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;27043
 15; 6623.1; 03-MAY-2007 09:10:26; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;27043
 16; 6755.1; 03-MAY-2007 09:12:38; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 17; 6876.0; 03-MAY-2007 09:14:39; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;27043
 18; 7082.5; 03-MAY-2007 09:18:05; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27043
 19; 7174.8; 03-MAY-2007 09:19:38; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 20; 7298.5; 03-MAY-2007 09:21:42; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;27043
 21; 7553.5; 03-MAY-2007 09:25:57; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27043
 22; 7751.8; 03-MAY-2007 09:29:15; Bright; 35.5; 15; 67Alp Vir ; 0.98; 28000;occ; 71; 0;27043

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 2; 1901.3; 03-MAY-2007 09:32:20; Bright; 35.0; 121; 29Gam Vir ; 2.74; 7200;occ; 70; 0;27044


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4; 2559.9; 03-MAY-2007 09:43:19; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27044
5; 2837.6; 03-MAY-2007 09:47:57; Bright; 42.0; 87; 64Gam UMa ; 2.43; 11000;occ; 84; 0;27044
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
9; 3922.3; 03-MAY-2007 10:06:01; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;27044
10; 4002.9; 03-MAY-2007 10:07:22; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27044
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14; 6056.1; 03-MAY-2007 10:41:35; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27044
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16; 6755.3; 03-MAY-2007 10:53:14; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27044
17; 6876.1; 03-MAY-2007 10:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;27044
18; 7082.8; 03-MAY-2007 10:58:42; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;27044
19; 7175.0; 03-MAY-2007 11:00:14; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27044
20; 7298.7; 03-MAY-2007 11:02:18; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27044
21; 7553.6; 03-MAY-2007 11:06:33; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 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
5; 2837.8; 03-MAY-2007 11:28:33; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27045
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
8; 3445.0; 03-MAY-2007 11:38:40; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27045
9; 3922.4; 03-MAY-2007 11:46:37; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 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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3; 1047.2; 03-MAY-2007 12:39:18; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;27046
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5; 1263.1; 03-MAY-2007 12:42:54; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;27046
6; 1518.0; 03-MAY-2007 12:47:09; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27046
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2; 1716.0; 03-MAY-2007 12:50:27; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;27046
3; 1901.7; 03-MAY-2007 12:53:32; Bright; 10.5; 121; 29Gam Vir ; 2.74; 7200;occ; 21; 0;27046
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2; 2837.9; 03-MAY-2007 13:09:09; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;27046
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; 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
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4; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 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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5; 2839.9; 04-MAY-2007 07:35:46; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;27057
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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17; 6879.5; 04-MAY-2007 08:43:06; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;27057
18; 7086.8; 04-MAY-2007 08:46:33; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 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
22; 7753.5; 04-MAY-2007 08:57:40; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27057
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3; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
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2; 2235.7; 21-MAY-2007 08:31:49; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;27301
3; 2373.2; 21-MAY-2007 08:34:07; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27301
4; 2562.5; 21-MAY-2007 08:37:16; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27301
5; 3061.1; 21-MAY-2007 08:45:35; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27301
6; 3175.7; 21-MAY-2007 08:47:29; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27301

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8; 3938.1; 21-MAY-2007 09:00:12; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;27301
9; 4010.7; 21-MAY-2007 09:01:24; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27301
10; 4526.6; 21-MAY-2007 09:10:00; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27301
11; 4786.9; 21-MAY-2007 09:14:20; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27301
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16; 6413.4; 21-MAY-2007 09:41:27; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27301
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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23; 7767.6; 21-MAY-2007 10:04:01; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27301

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3; 2235.7; 21-MAY-2007 10:12:25; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;27302
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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
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
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9; 3937.8; 21-MAY-2007 12:21:23; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;27303
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19; 6830.3; 21-MAY-2007 13:09:36; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27303
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21; 7232.1; 21-MAY-2007 13:16:17; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27303
22; 7407.9; 21-MAY-2007 13:19:13; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27303
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7; 2372.8; 21-MAY-2007 16:57:06; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;27306
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9; 3059.1; 21-MAY-2007 17:08:32; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27306
10; 3175.3; 21-MAY-2007 17:10:28; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27306
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22; 6831.8; 21-MAY-2007 18:11:25; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27306
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4; 2235.8; 21-MAY-2007 13:33:37; Bright; 34.5; 3; 16Alp Boo ;-0.05; 4250;occ; 69; 0;27304
5; 2373.0; 21-MAY-2007 13:35:54; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27304
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7; 3059.8; 21-MAY-2007 13:47:21; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;27304
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9; 3446.5; 21-MAY-2007 13:53:48; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27304
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6; 3049.0; 23-MAY-2007 11:03:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27331
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 19; 6844.0; 23-MAY-2007 15:27:47; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27333
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13; 977.7; 24-MAY-2007 03:14:48; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27341
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22; 3044.7; 24-MAY-2007 05:29:51; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27342
23; 3172.3; 24-MAY-2007 05:31:59; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27342
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 5; 1527.0; 24-MAY-2007 20:09:57; Bright; 39.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 79; 0;27351
 6; 1735.4; 24-MAY-2007 20:13:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27351
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 8; 2369.8; 24-MAY-2007 20:24:00; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;27351
 9; 2559.7; 24-MAY-2007 20:27:10; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27351
 10; 3041.2; 24-MAY-2007 20:35:12; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27351
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 12; 3446.5; 24-MAY-2007 20:41:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27351
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 4; 412.6; 24-MAY-2007 21:31:59; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27352
 5; 815.9; 24-MAY-2007 21:38:42; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27352
 6; 983.6; 24-MAY-2007 21:41:30; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;27352
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13; 979.3; 24-MAY-2007 08:16:38; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27344
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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

7;	1834.2;	31-MAY-2007	18:14:22;	Bright;	39.5;	120;	1Del Oph	;	2.73;	3200;occ;	79;	0;27450	
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	
10;	3007.9;	31-MAY-2007	18:33:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;27450	
11;	3166.3;	31-MAY-2007	18:36:34;	Bright;	35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;27450	
12;	3446.8;	31-MAY-2007	18:41:14;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;27450	
13;	3930.1;	31-MAY-2007	18:49:18;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;27450	
14;	4393.3;	31-MAY-2007	18:57:01;	Bright;	44.5;	53;	43Bet And	;	2.05;	3300;occ;	89;	0;27450	
15;	5386.3;	31-MAY-2007	19:13:34;	Dark	;	46.5;	52;	16Bet Cet	;	2.04;	4500;occ;	93;	0;27450
16;	5647.2;	31-MAY-2007	19:17:55;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;27450
17;	5788.9;	31-MAY-2007	19:20:17;	Dark	;	47.5;	84;	Alp Phe	;	2.40;	4500;occ;	95;	0;27450
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