

GOMOS Daily Report 15-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	17MAY2007 05:35:32
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (15MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16MAY2007 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)

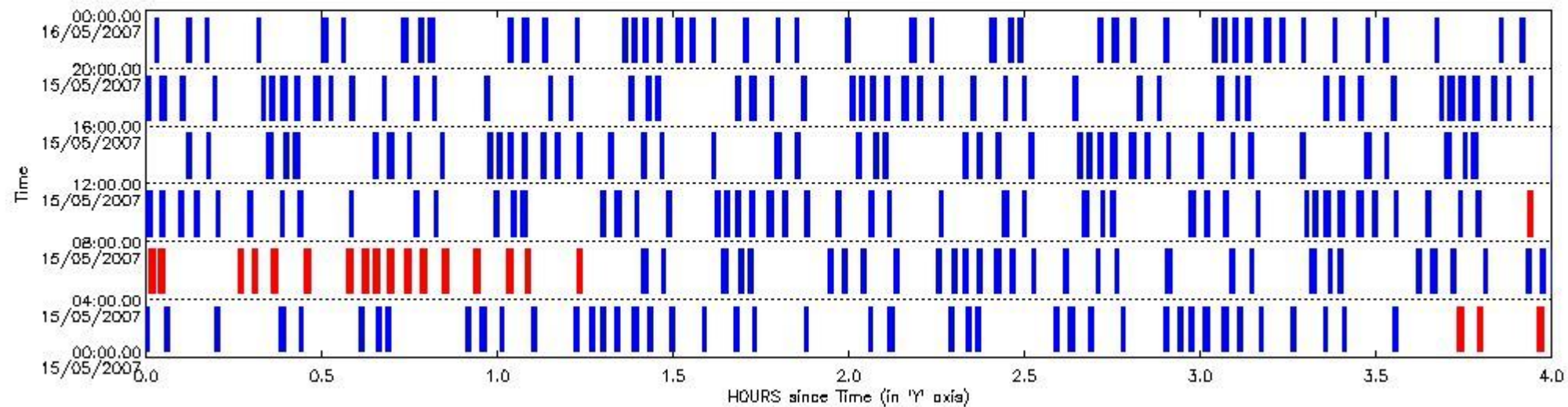
2.1 Level 0 products arrived in PCF (see template [here](#))

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).

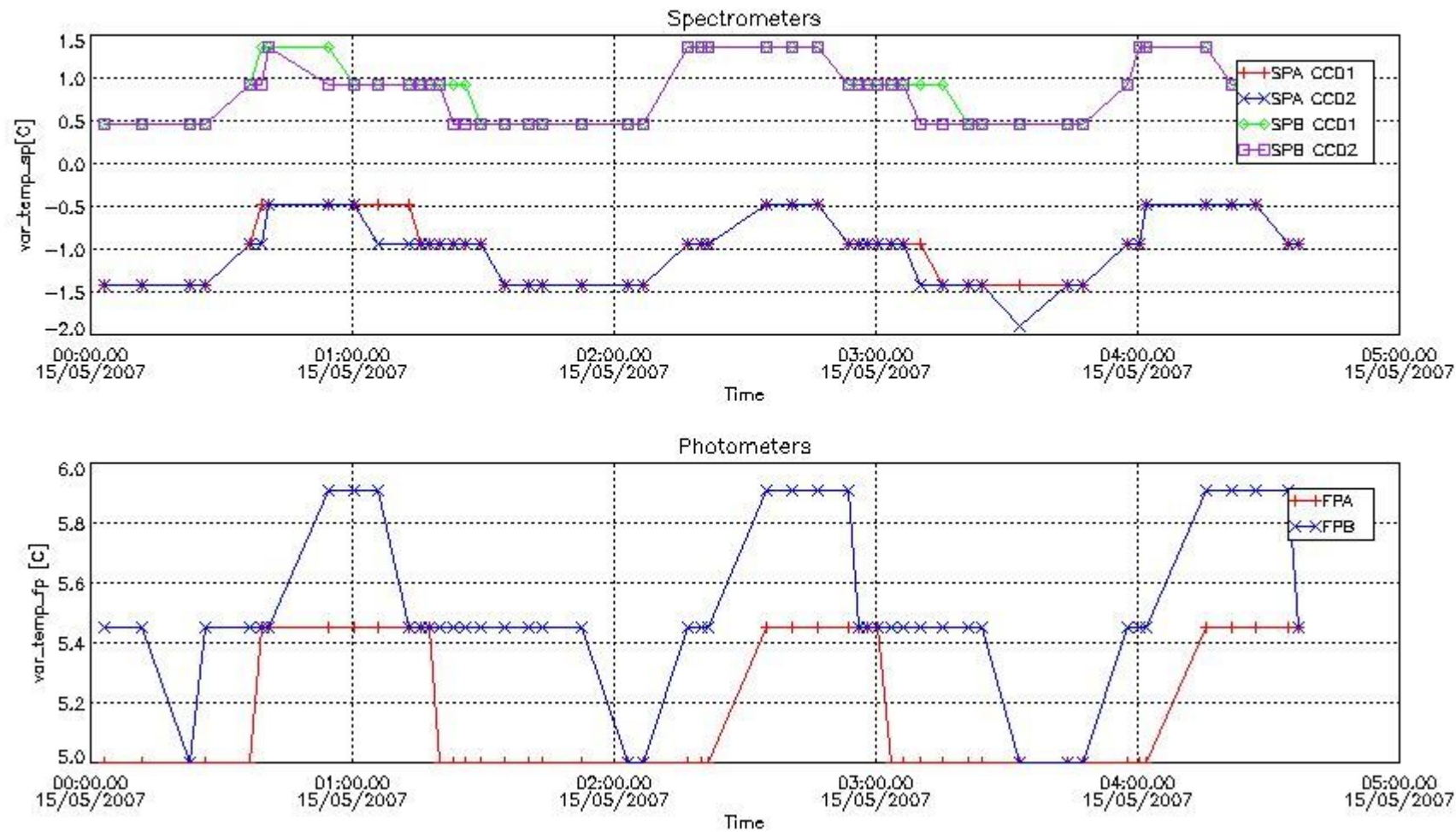


2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
15-MAY-2007 03:43:46	5AlpCep	89	27212
15-MAY-2007 03:47:12	11BetCas	74	27212
15-MAY-2007 03:57:24	53BetPeg	93	27212
15-MAY-2007 04:00:27	88GamPeg	140	27212
15-MAY-2007 04:02:01	54AlpPeg	90	27212
15-MAY-2007 04:15:34	24AlpPsA	18	27212
15-MAY-2007 04:18:01	DSA1037	0	27212
15-MAY-2007 04:21:25	AlpGru	31	27212
15-MAY-2007 04:26:59	AlpPav	45	27213
15-MAY-2007 04:34:14	BetAra	141	27213
15-MAY-2007 04:36:45	TheSco	40	27213
15-MAY-2007 04:38:37	35LamSco	25	27213
15-MAY-2007 04:41:01	26EpsSco	75	27213
15-MAY-2007 04:44:09	21AlpSco	16	27213
15-MAY-2007 04:46:49	8Bet1Sco	97	27213

49	GOM_TRA_1PNPDE20070515_043421_000000422058_00105_27213_6489.N1	15-MAY-2007 04:34:21	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	27213	No
50	GOM_TRA_1PNPDE20070515_043652_000000482058_00105_27213_6490.N1	15-MAY-2007 04:36:52	Straylight	48.000	40	The Sco	1.8590	7100.0	96	27213	No

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



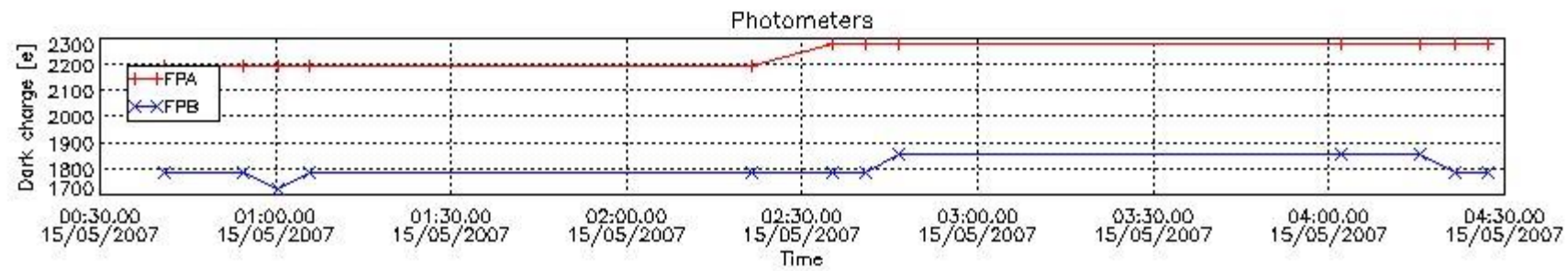
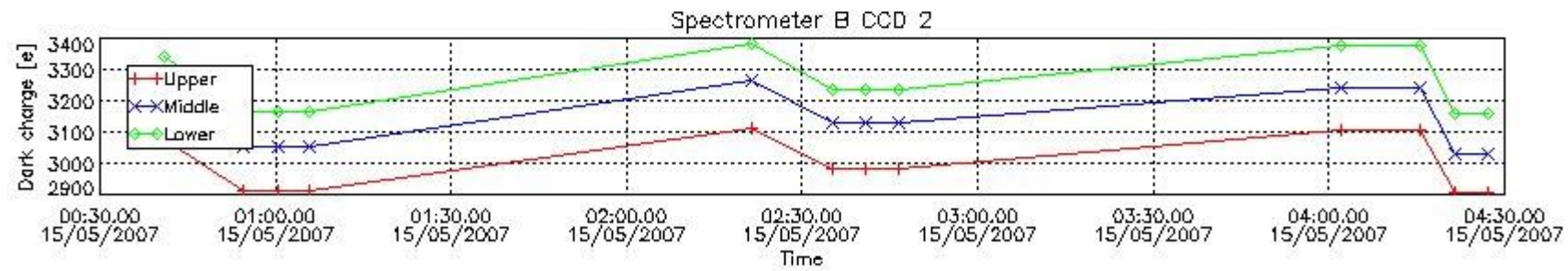
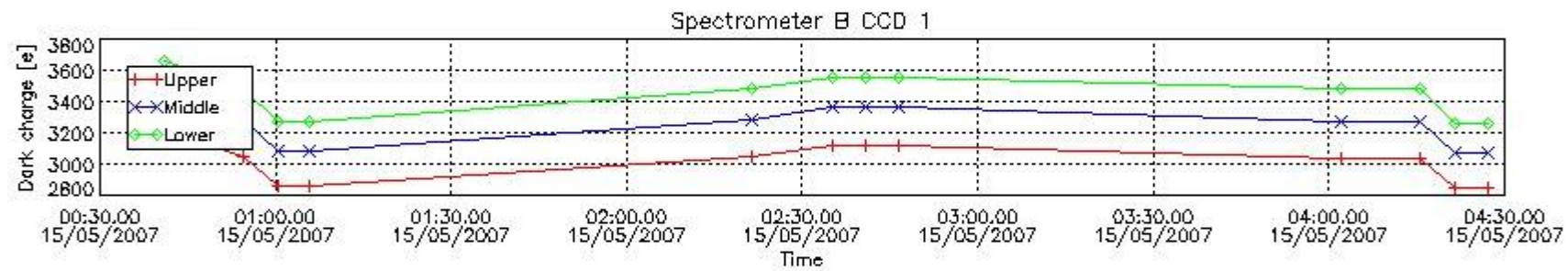
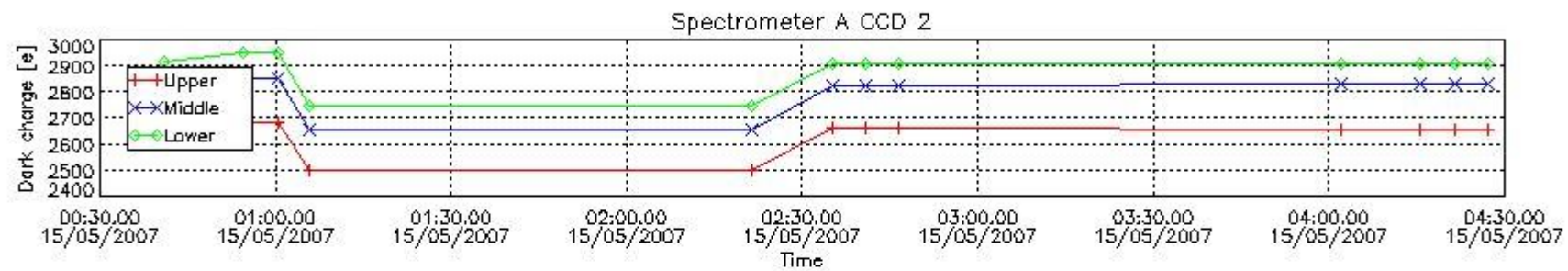
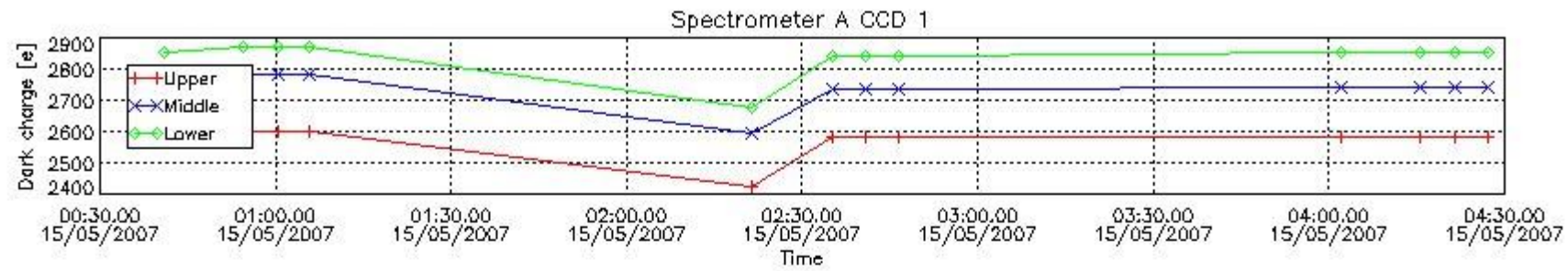
4. Overview of dark signal processing per product

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



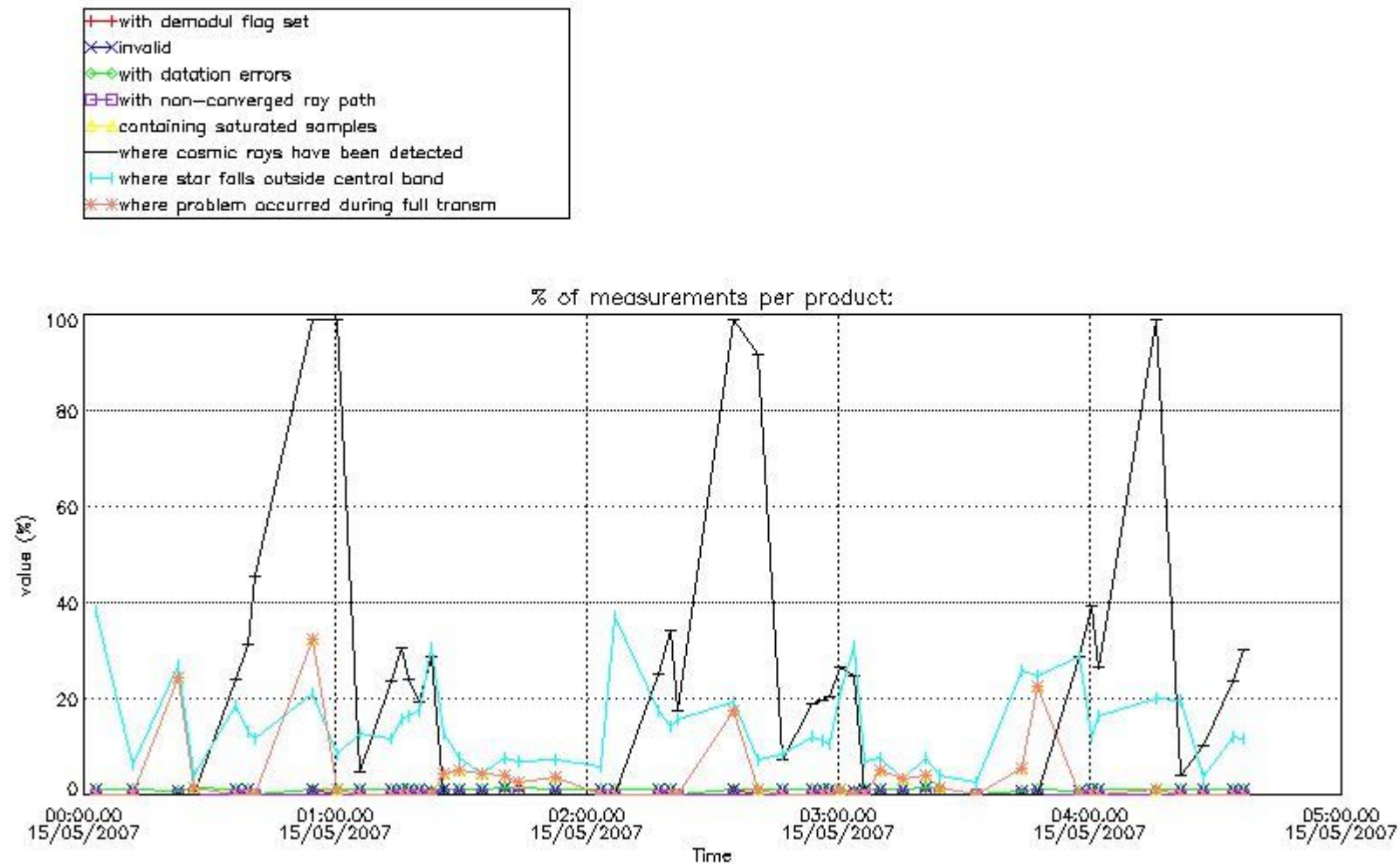
5. Demodulation flag and quality information monitoring

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.

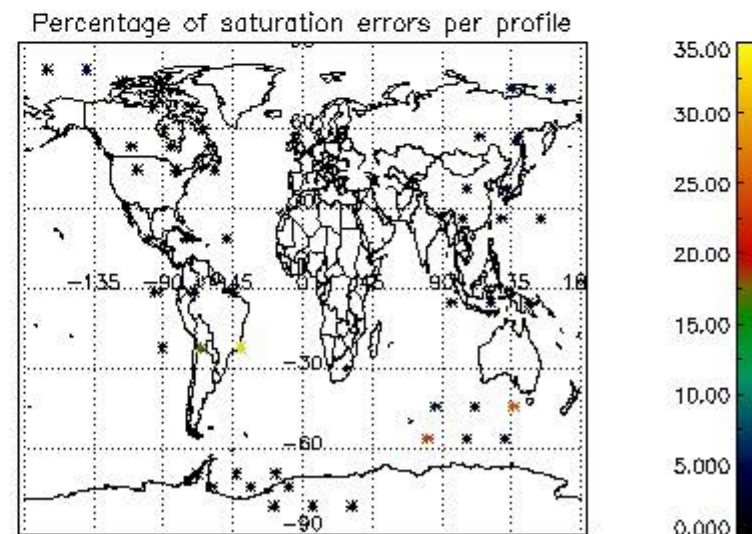
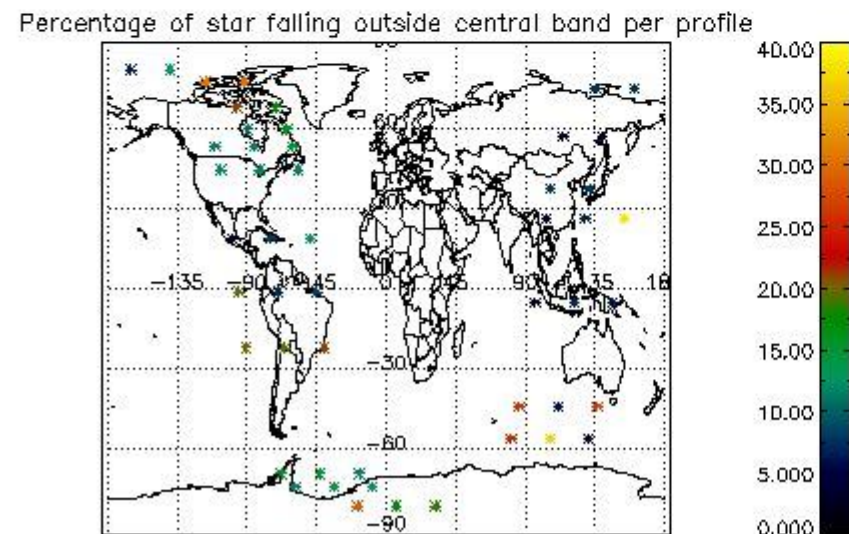
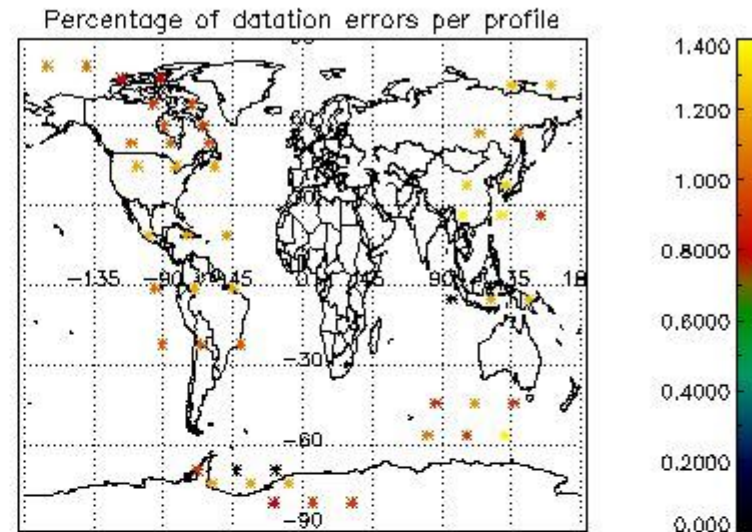
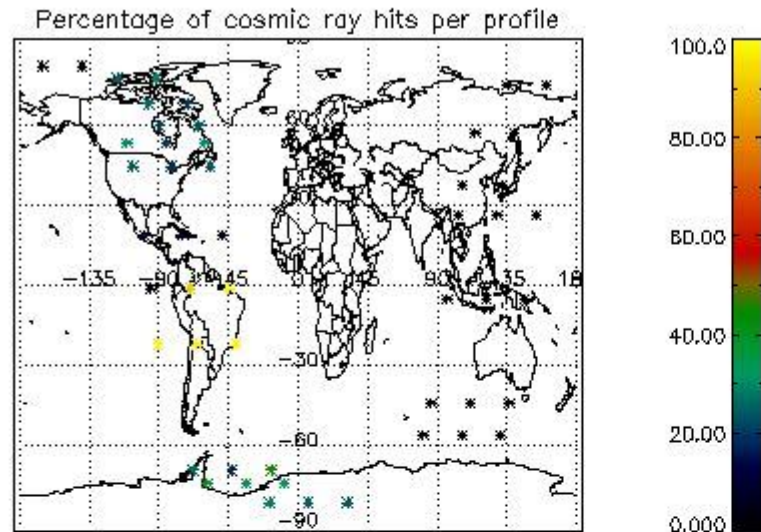
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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)



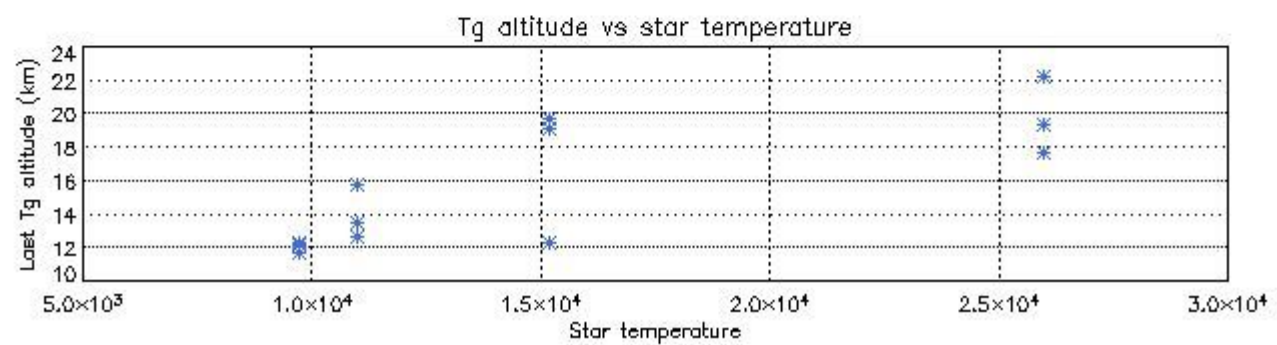
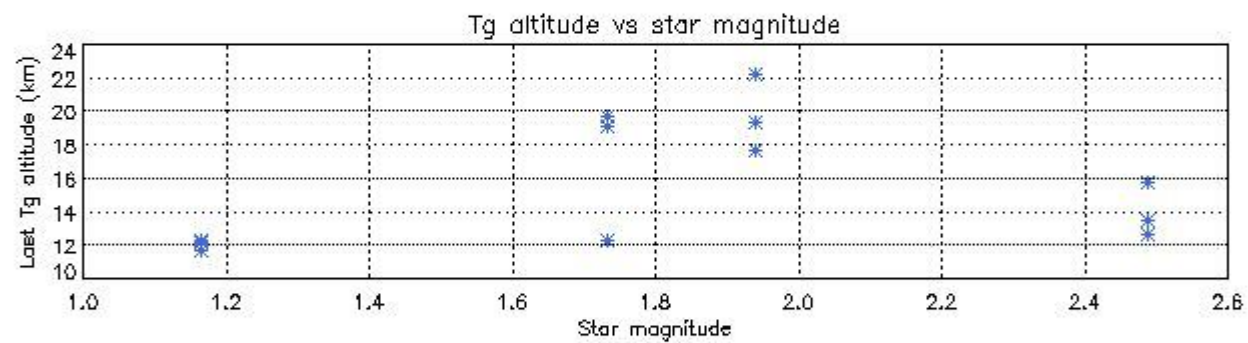
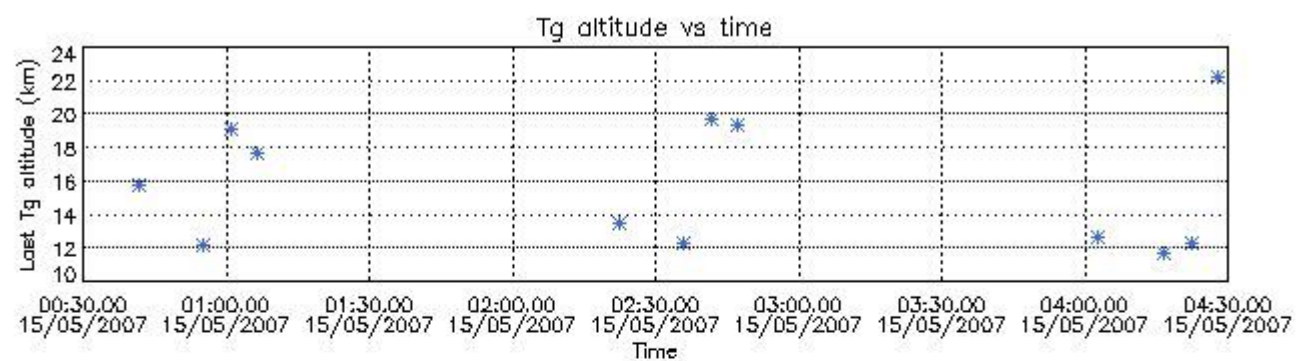
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.694	17.839	14.973
St. deviation:	3.7427	6.7594	0.56264
Maximum:	22.241	26.425	15.389
Minimum:	11.636	3.5370	14.333
Number of data:	12.000	20.000	3.0000

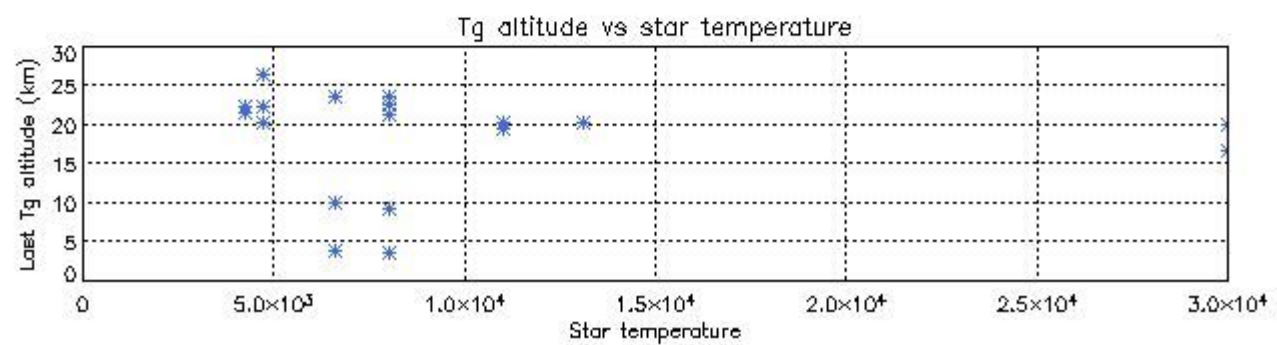
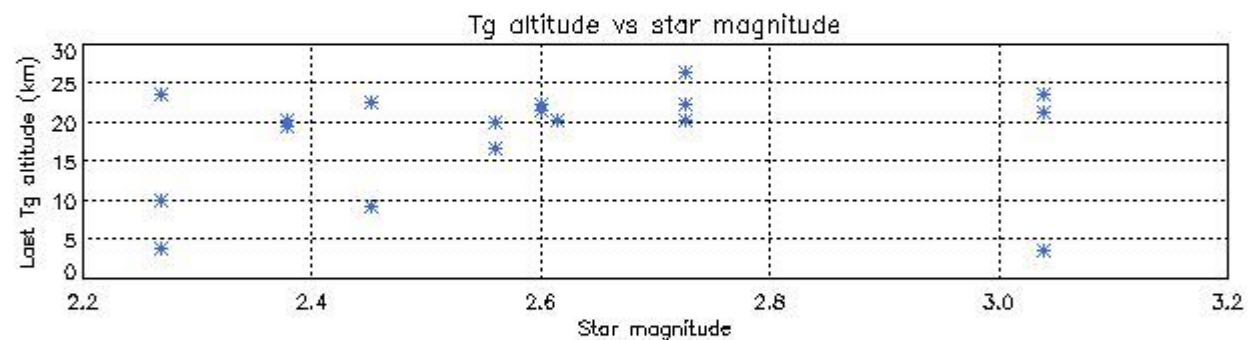
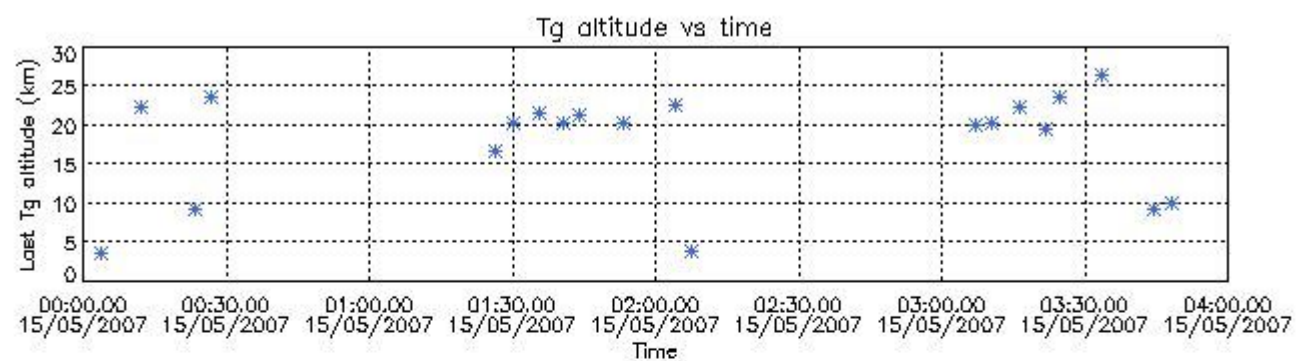
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



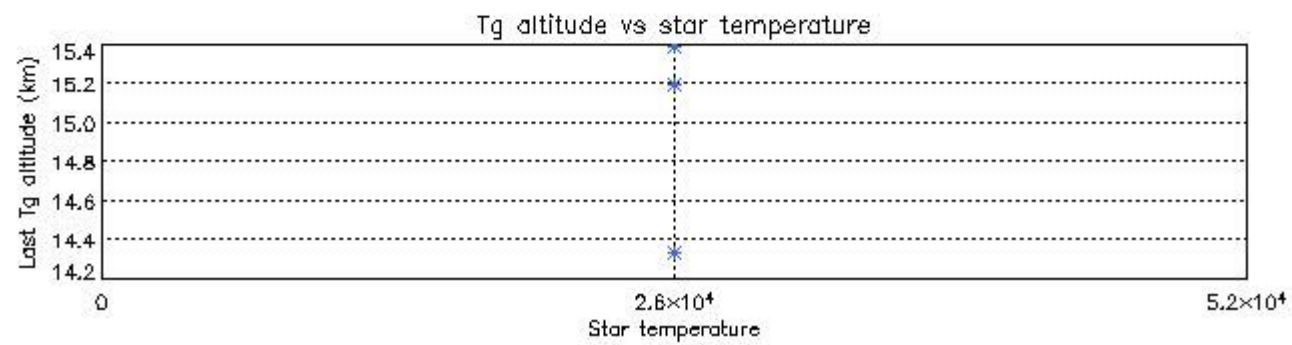
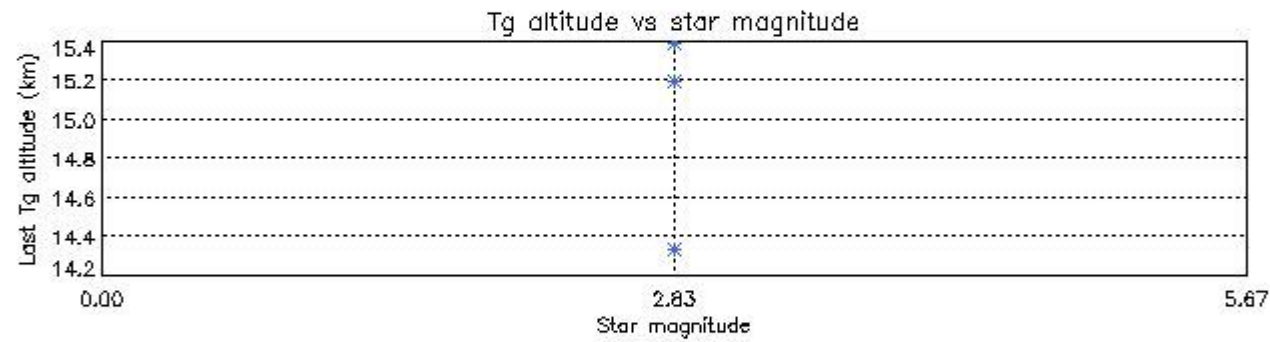
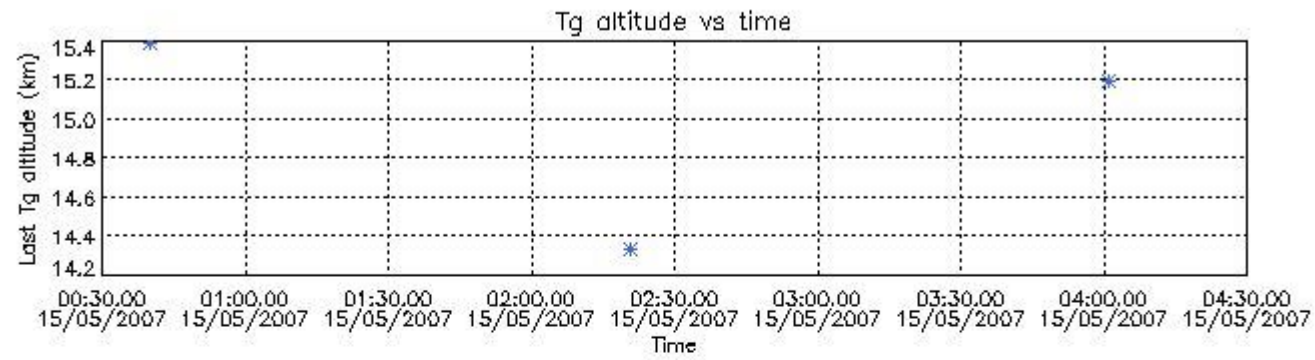
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

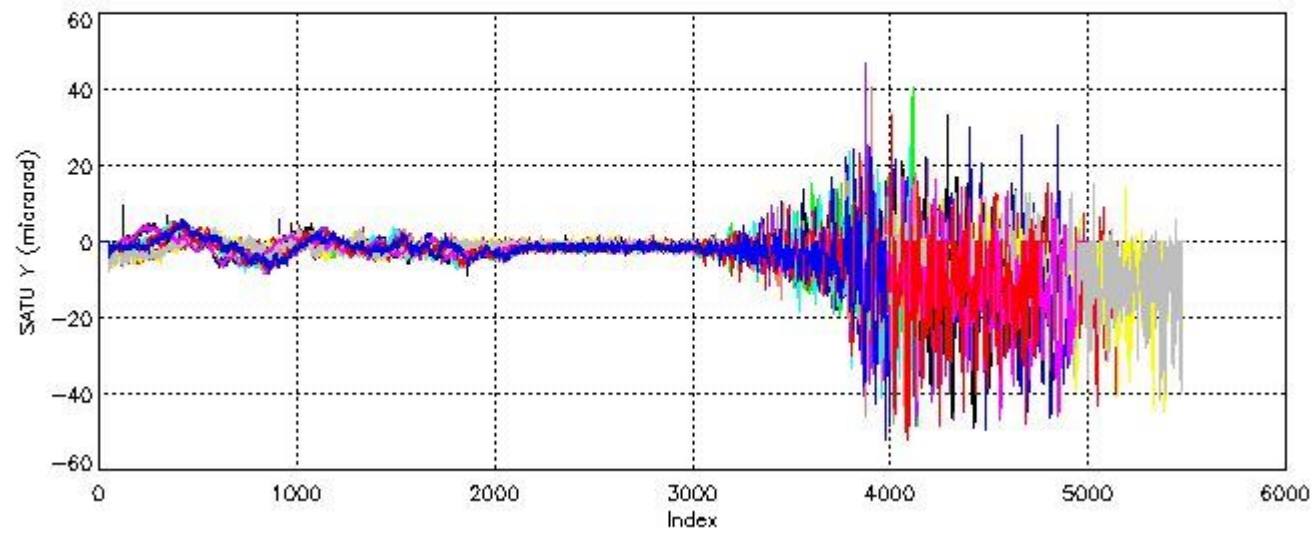
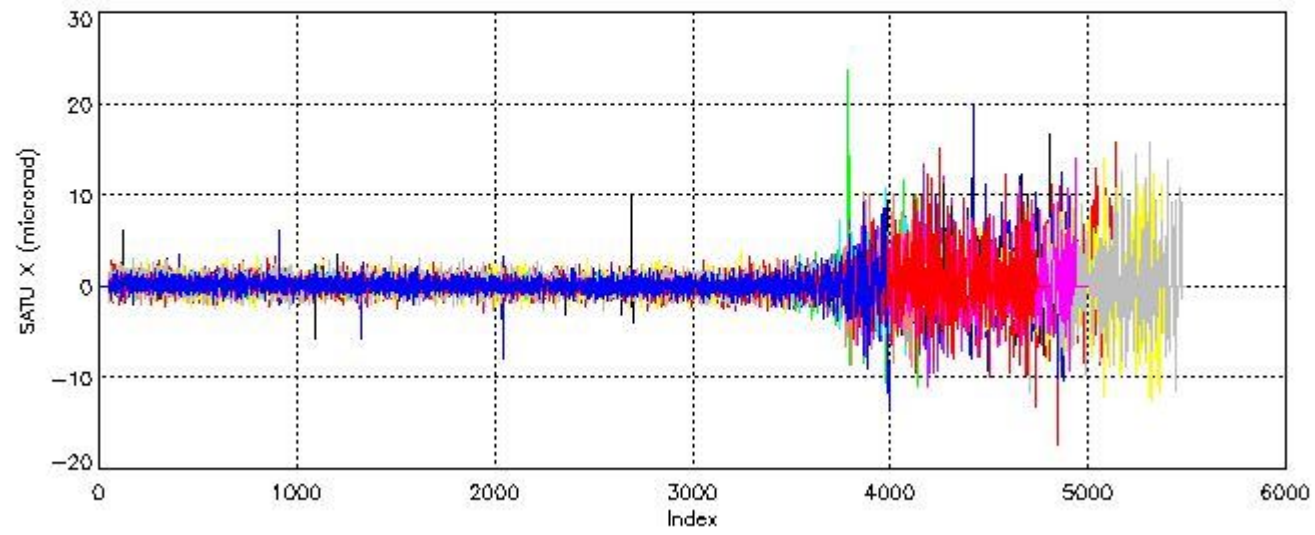


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19554	-1.1129	0.25179	-1.1067
St. deviation:	0.59528	2.5707	0.90986	2.8273
Maximum:	6.1000	9.3000	5.6000	9.3000
Minimum:	-2.4000	-8.6000	-4.9000	-9.6000

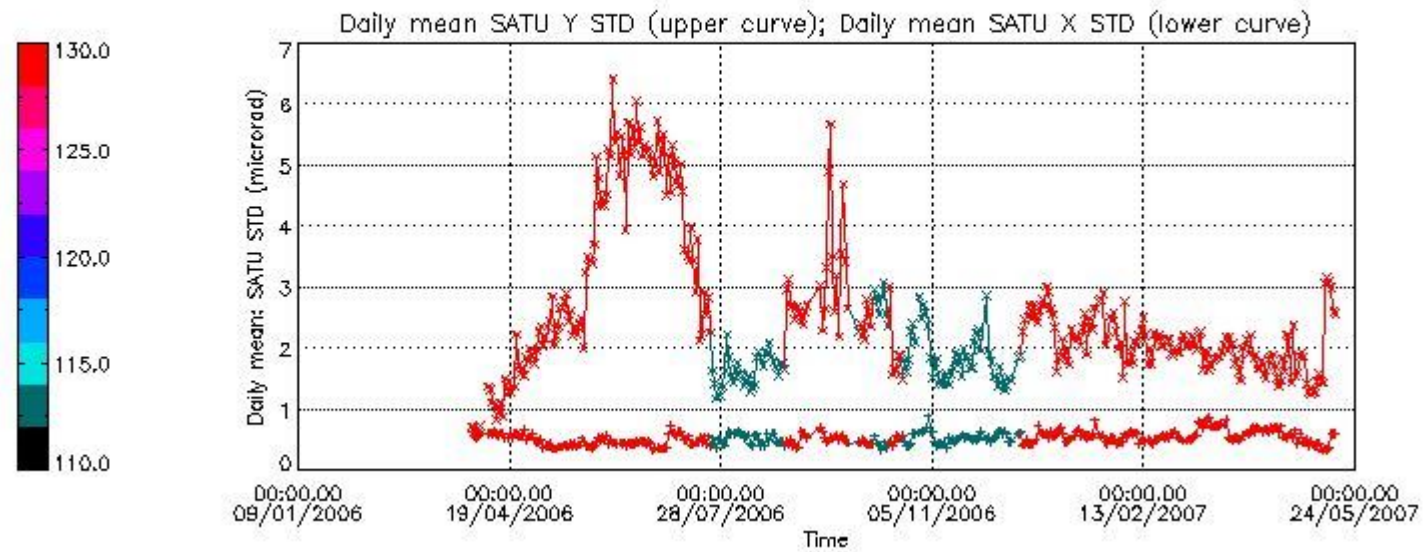
Number of data:	12600.	12600.	18800.	18800.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

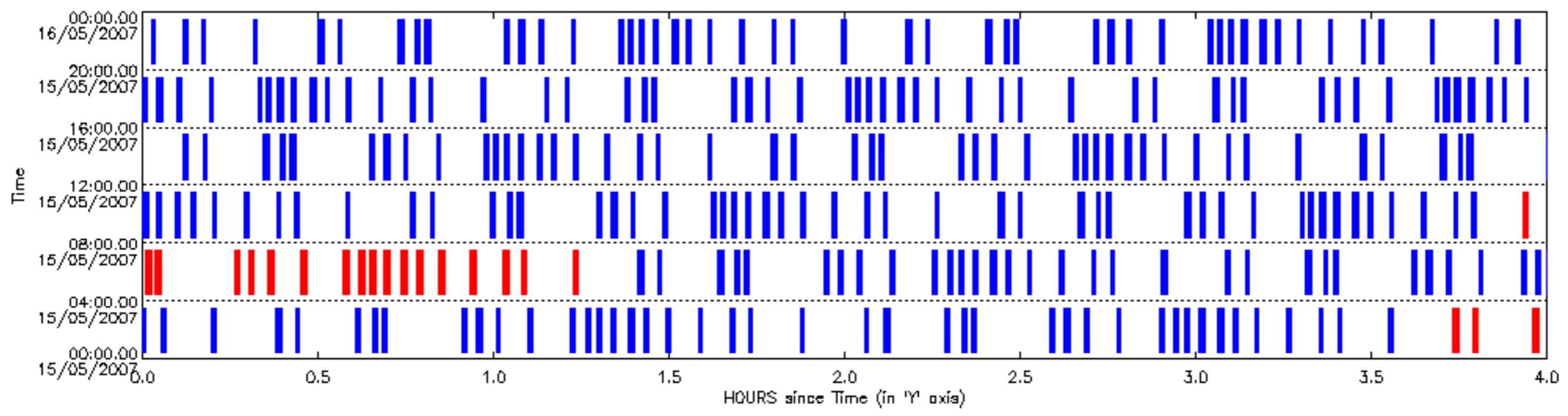
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

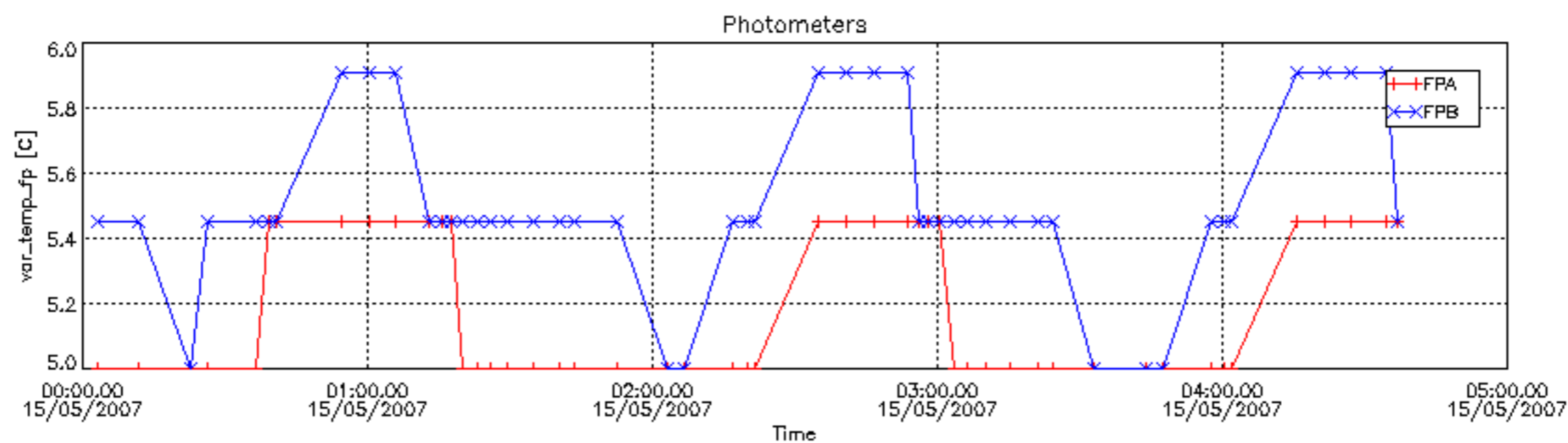
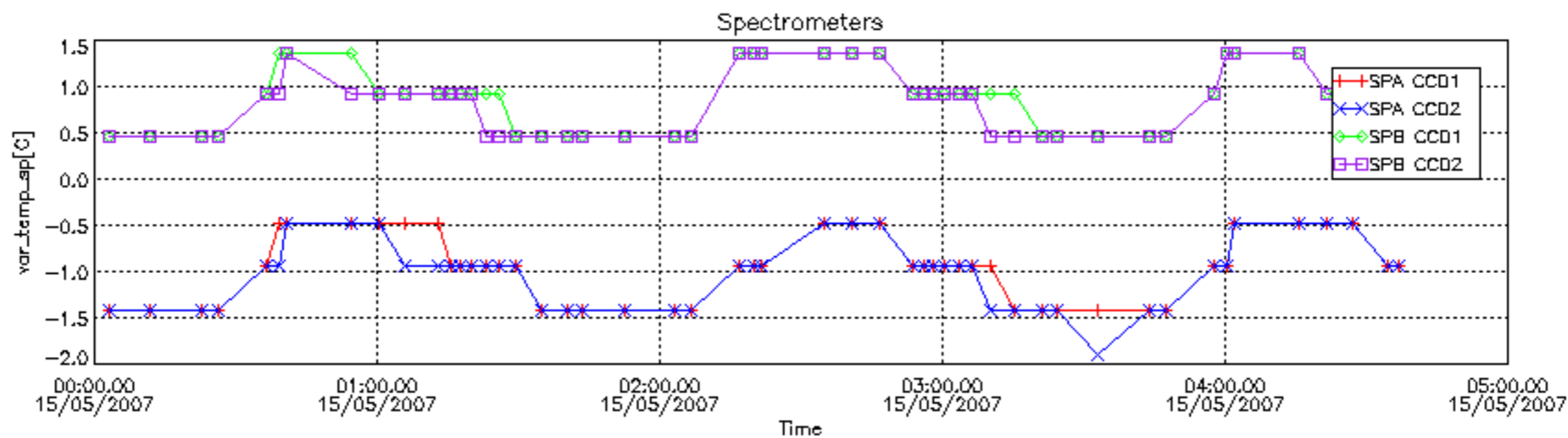


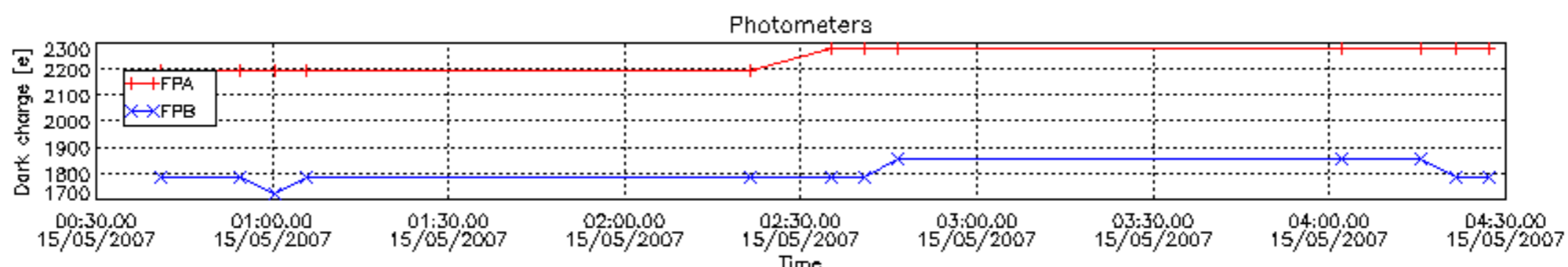
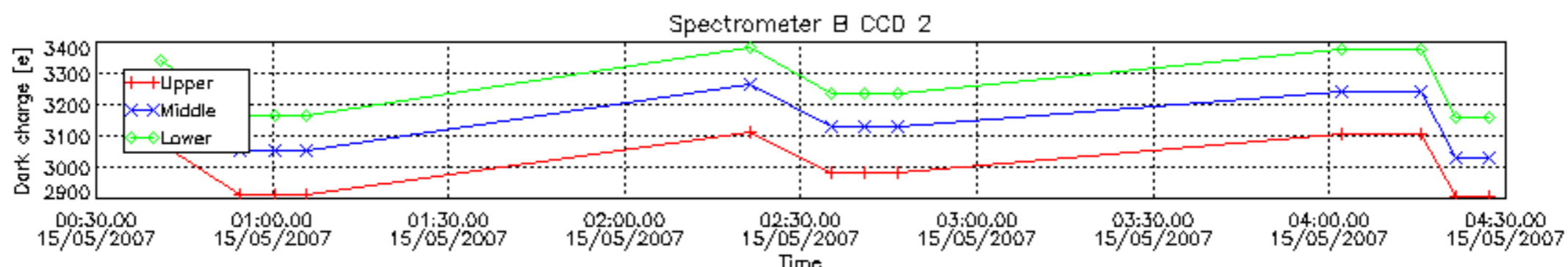
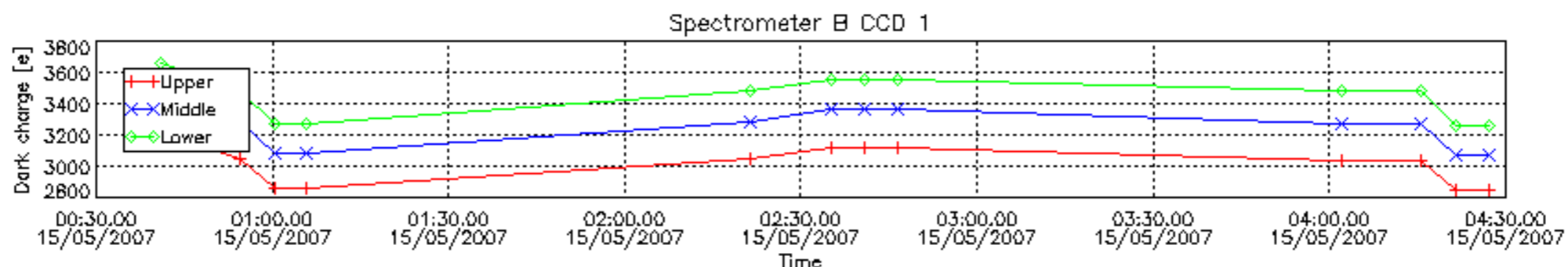
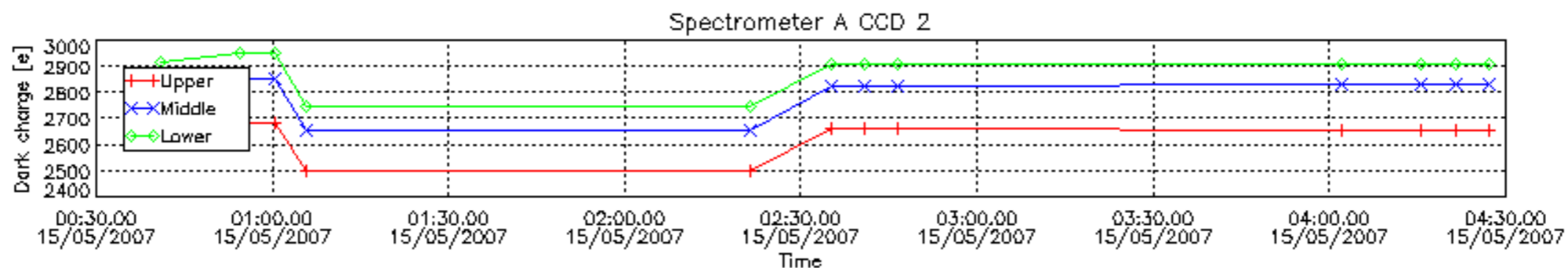
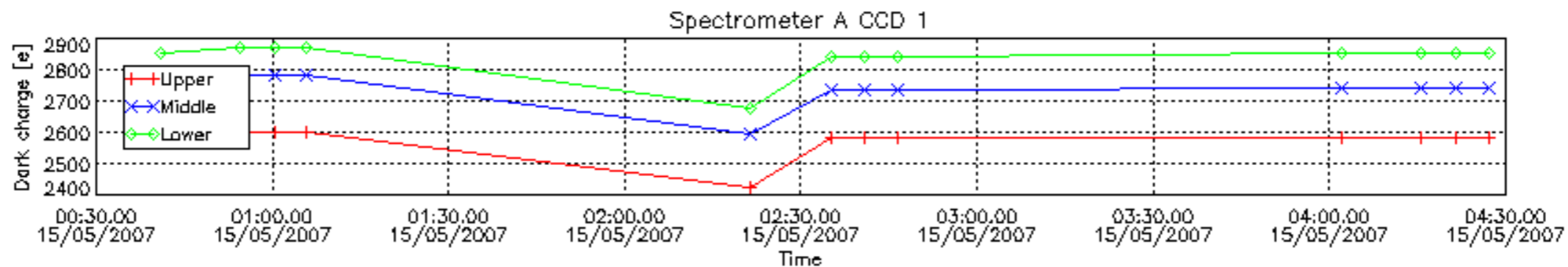
8. Auxiliary Data Files used for the production reported in section 2.4

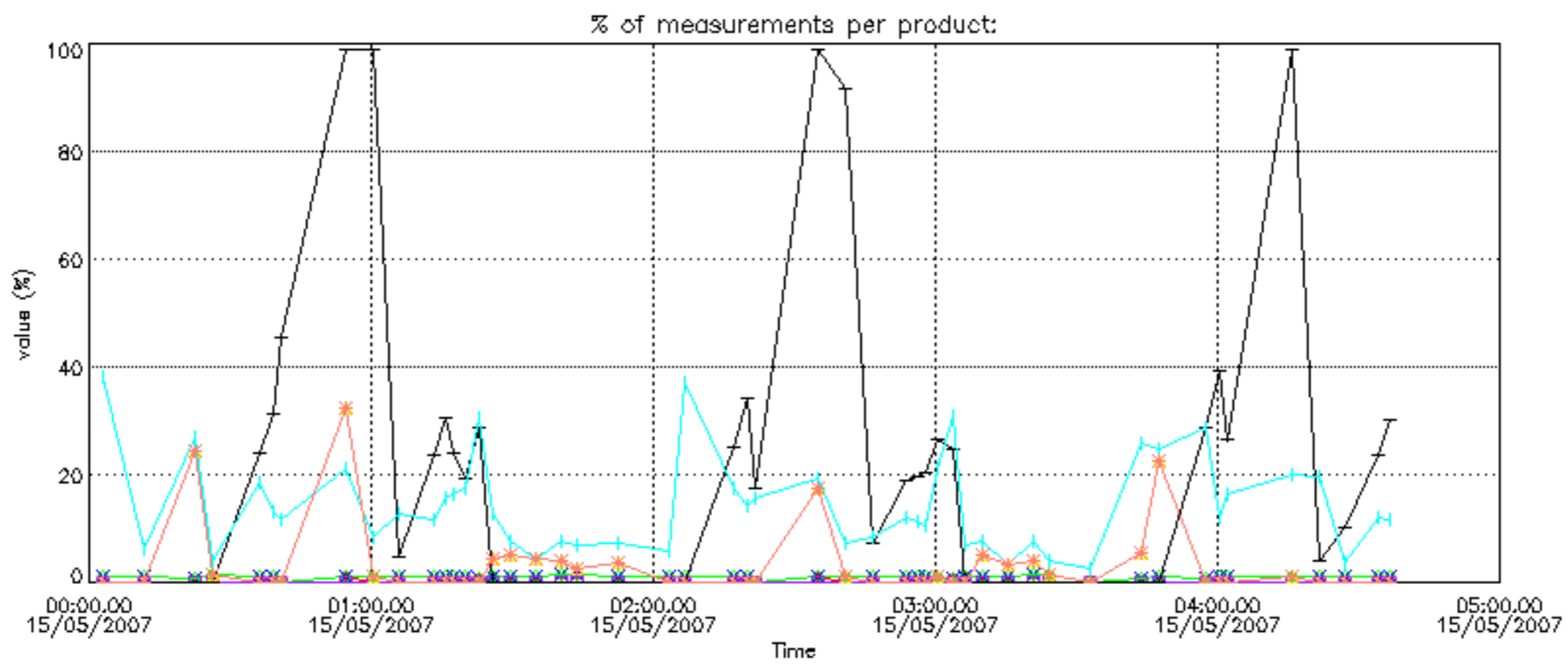
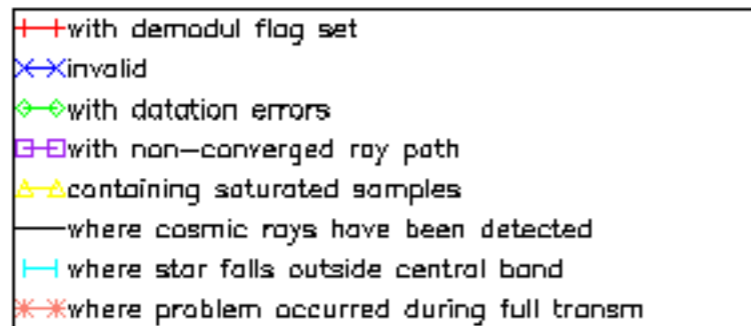
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-MAY-2007 00:02:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	15-MAY-2007 00:02:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-MAY-2007 00:02:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-MAY-2007 00:02:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-MAY-2007 00:02:58
ECMWF_FILE	AUX_ECF_AXNECM20070514_124042_20070514_210000_20070515_090000	1	15-MAY-2007 00:02:58
ECMWF_FILE	AUX_ECF_AXNECM20070514_181042_20070515_030000_20070515_150000	41	15-MAY-2007 03:43:52
OPTIONAL_ECMWF_FILE	MISSING	1	15-MAY-2007 00:02:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070514_212352_000057382058_00100_27208_3482.N1	1	15-MAY-2007 00:02:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070514_230449_000057382058_00101_27209_3483.N1	8	15-MAY-2007 00:54:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070515_004546_000054192058_00102_27210_3484.N1	27	15-MAY-2007 02:35:04
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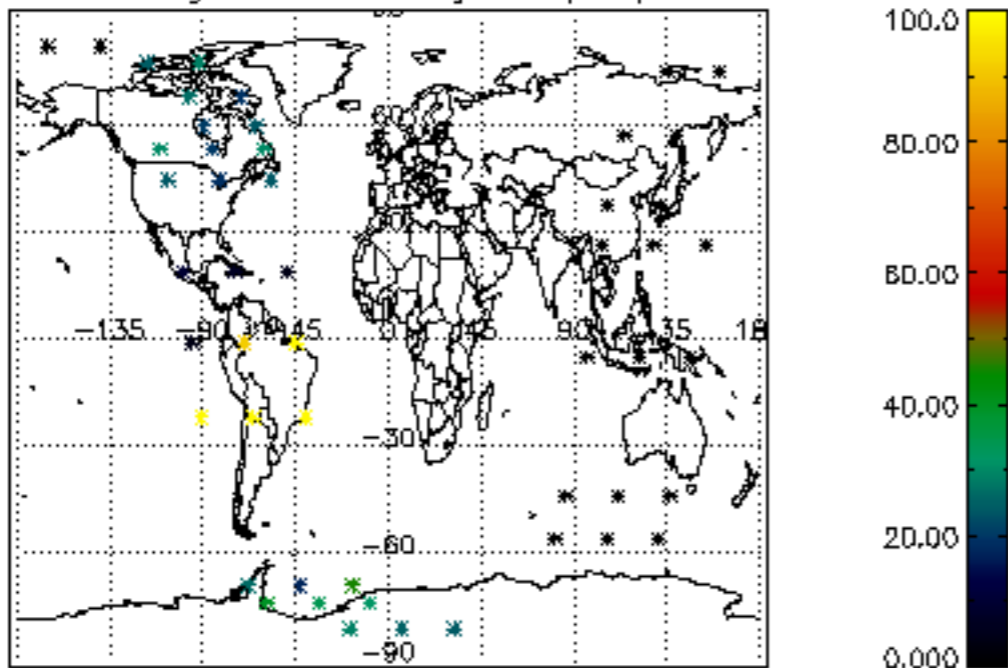




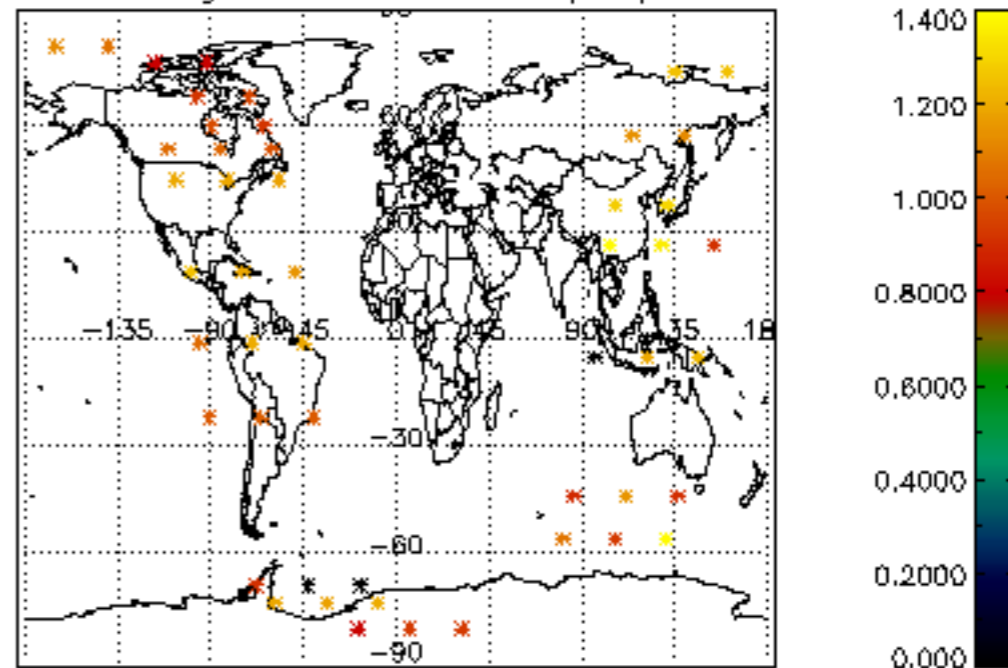




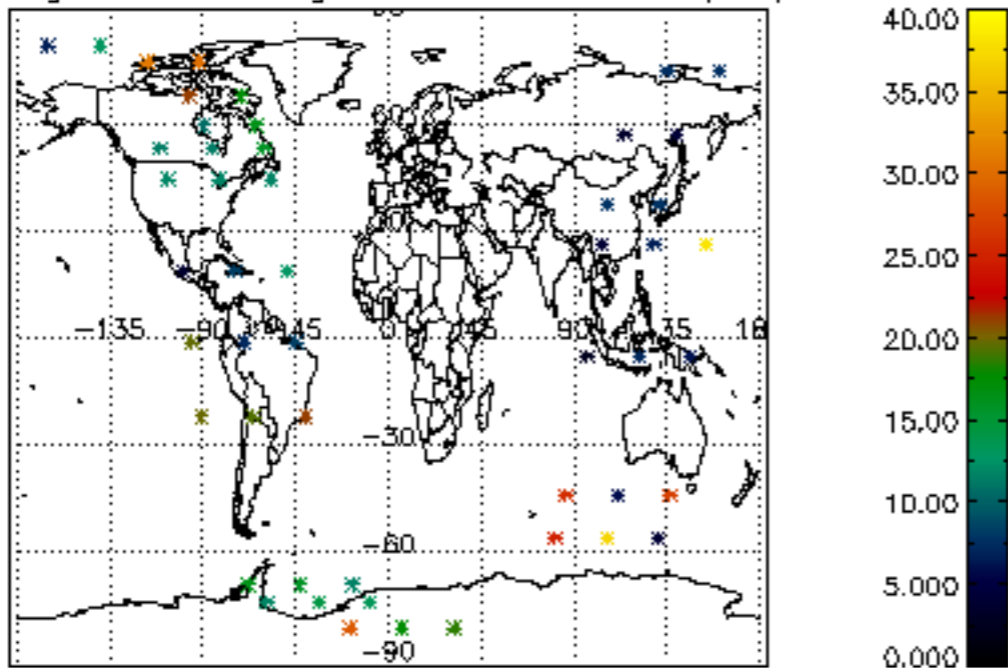
Percentage of cosmic ray hits per profile



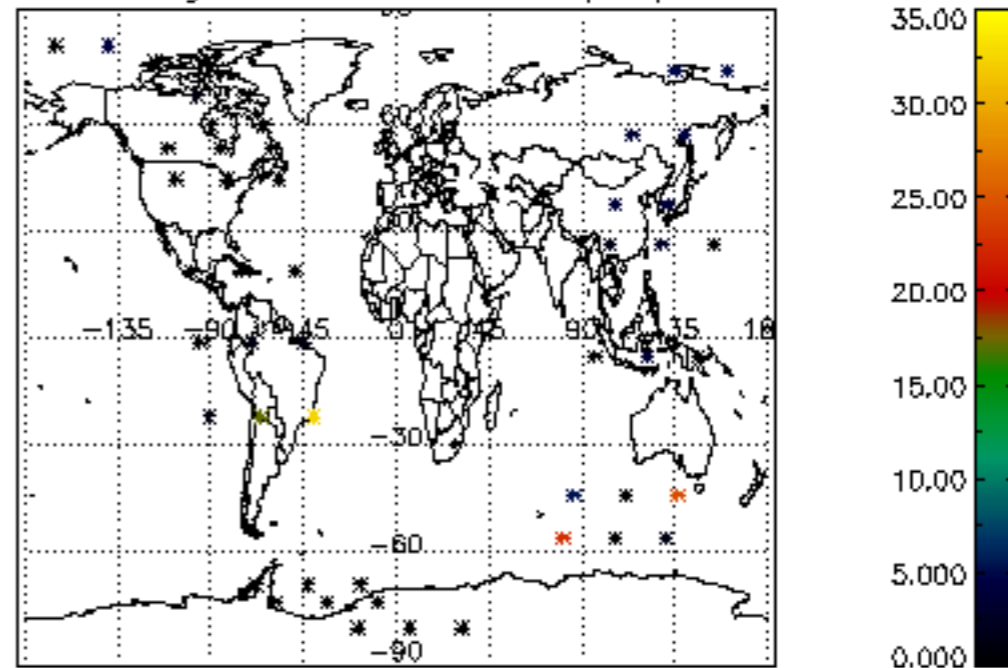
Percentage of datation errors per profile



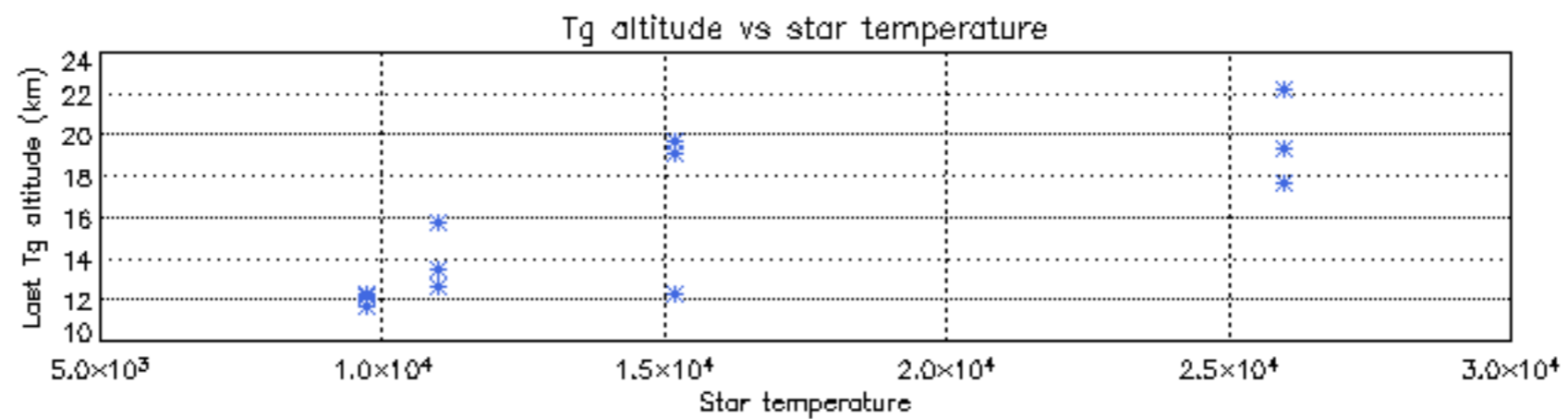
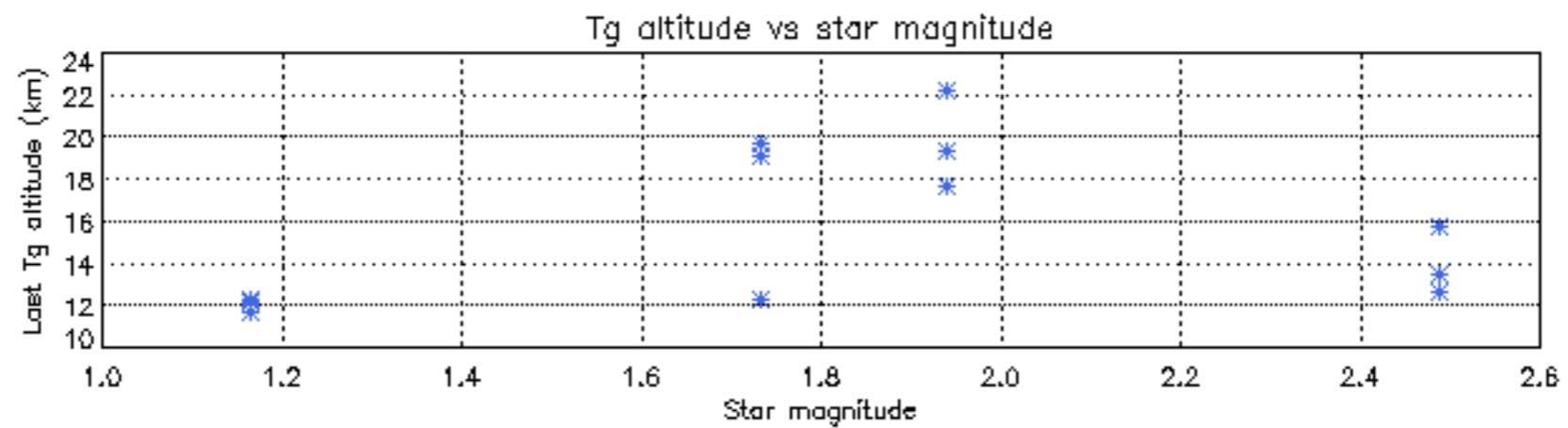
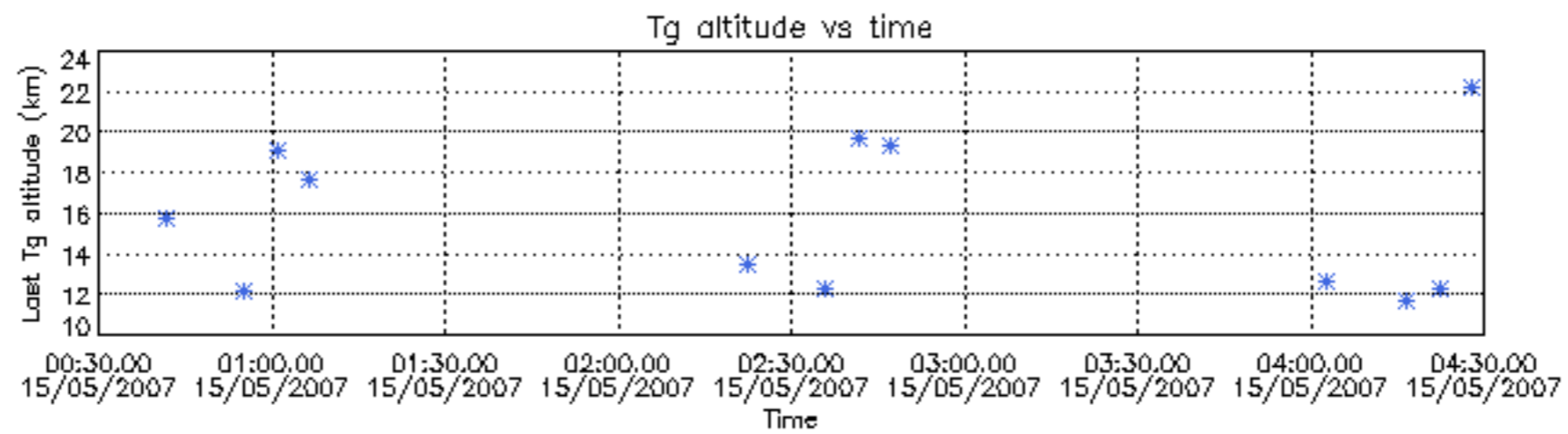
Percentage of star falling outside central band per profile



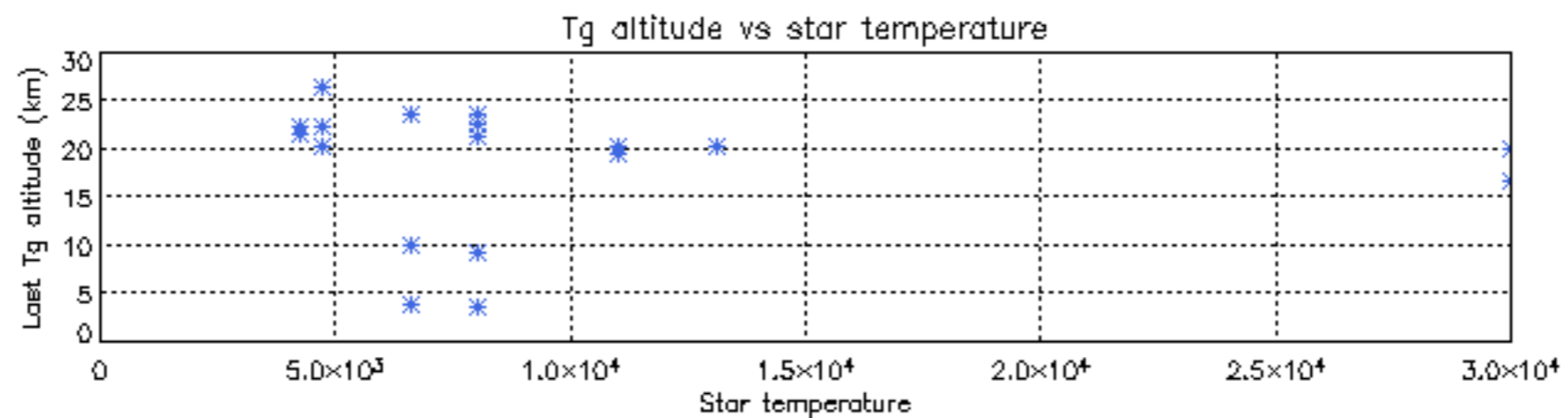
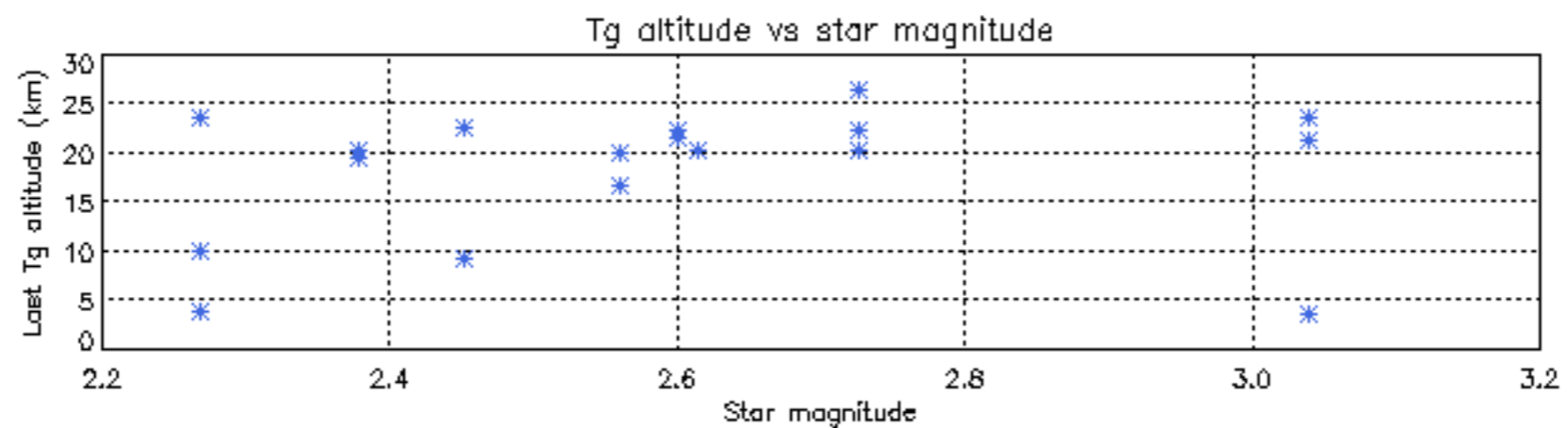
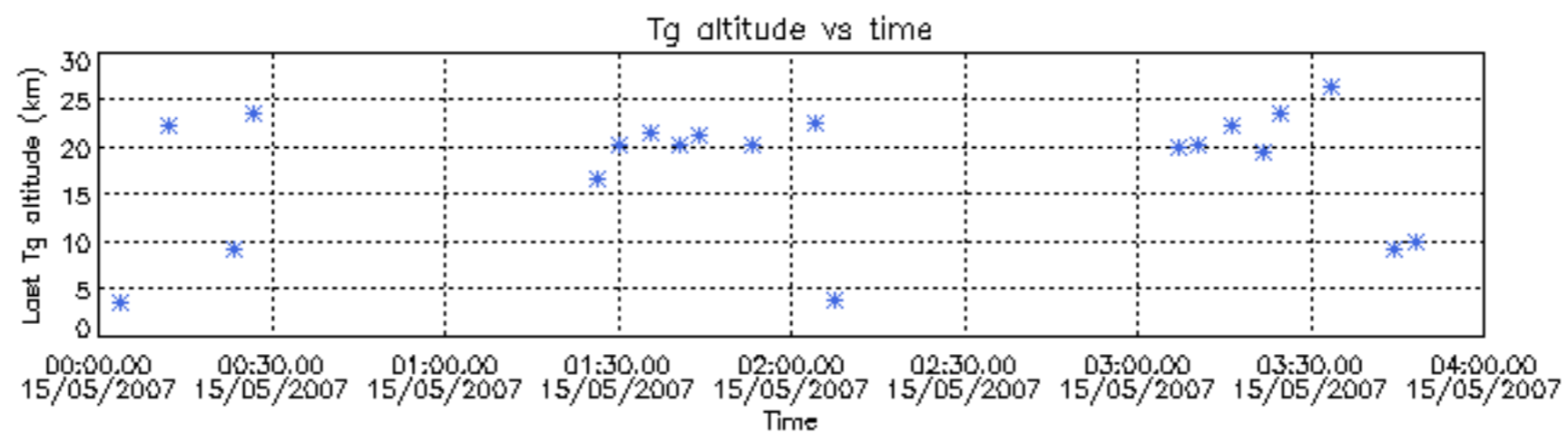
Percentage of saturation errors per profile



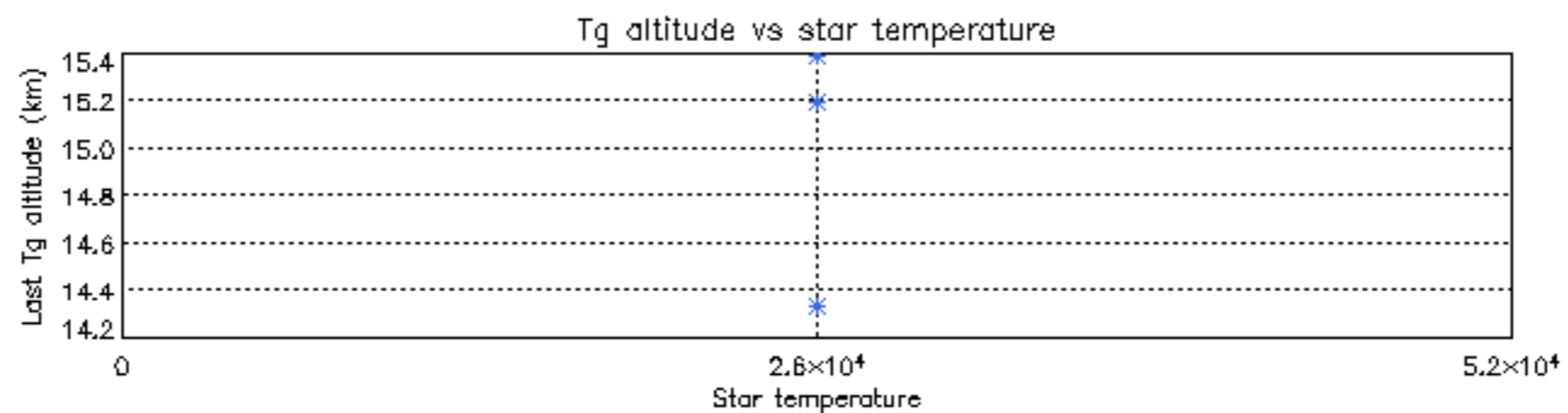
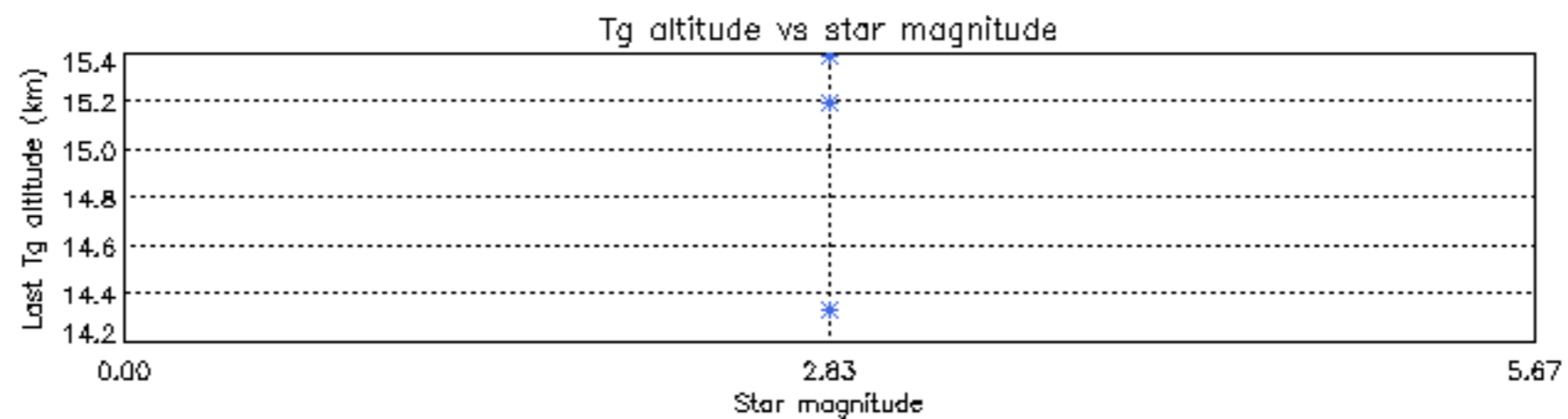
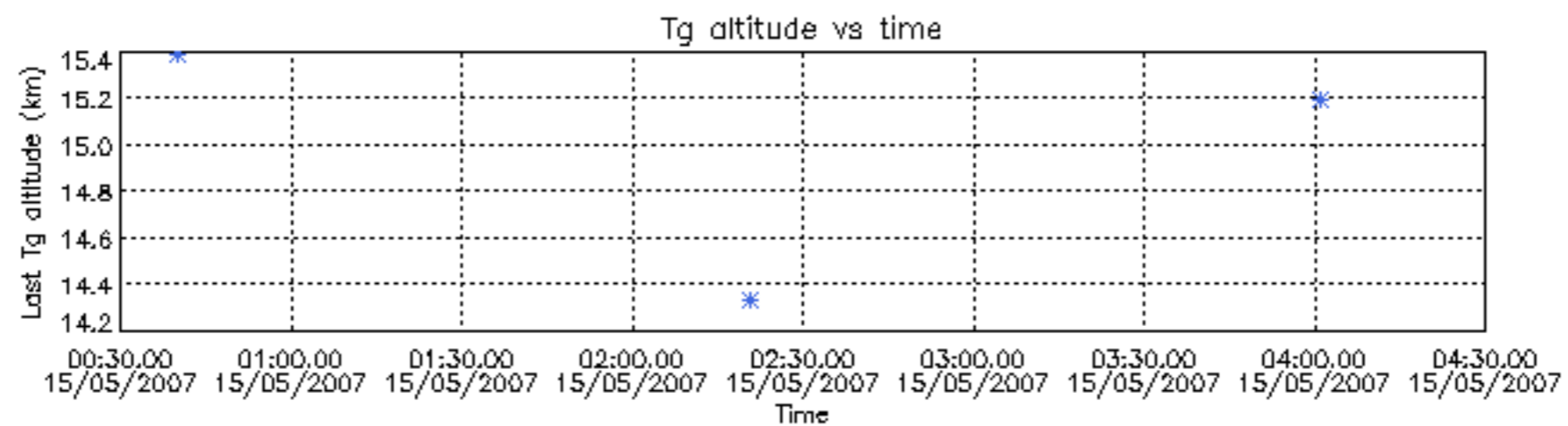
Tangent altitude at which the star is lost

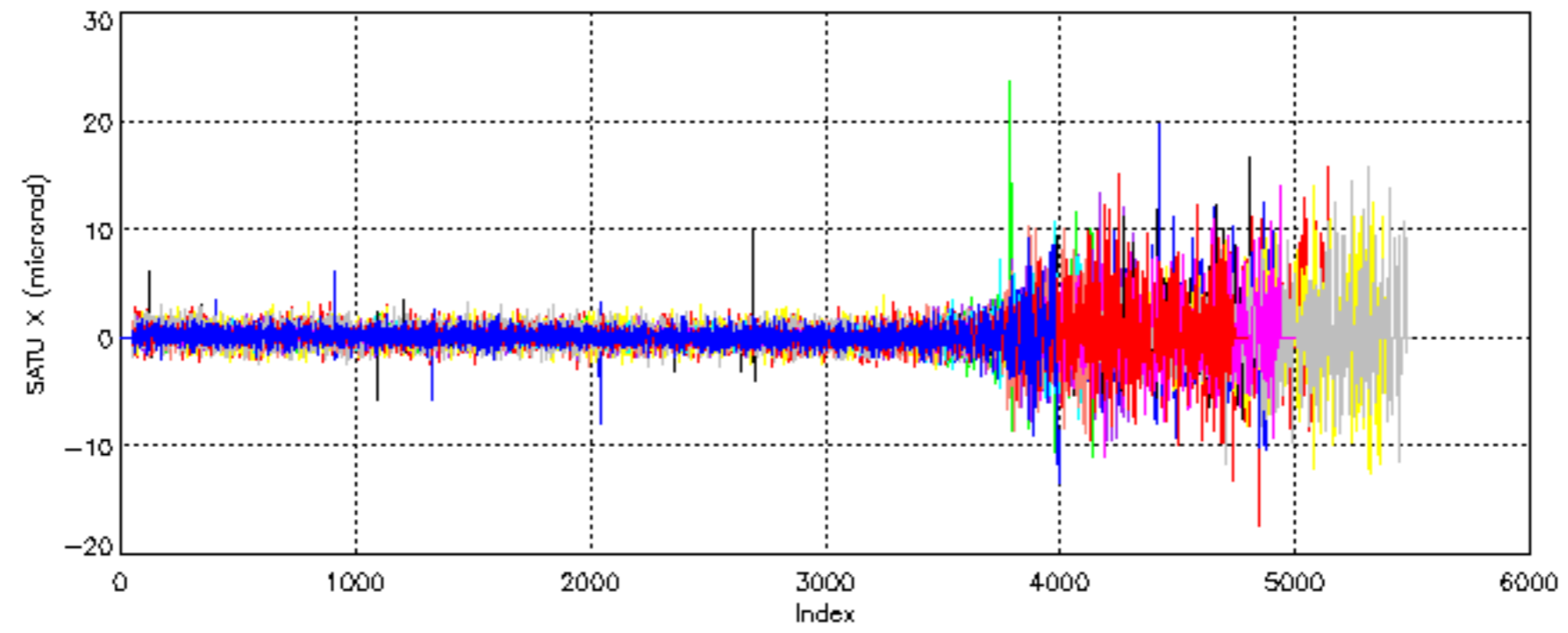


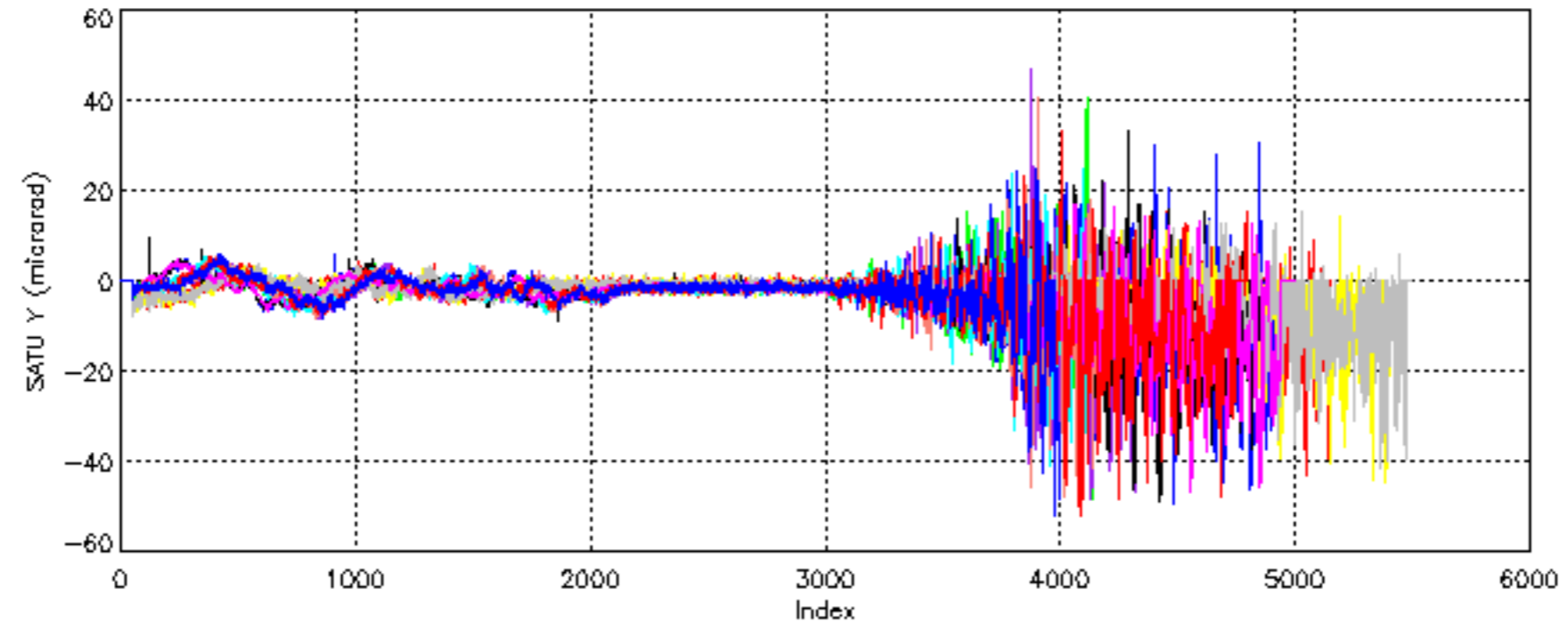
Tangent altitude at which the star is lost

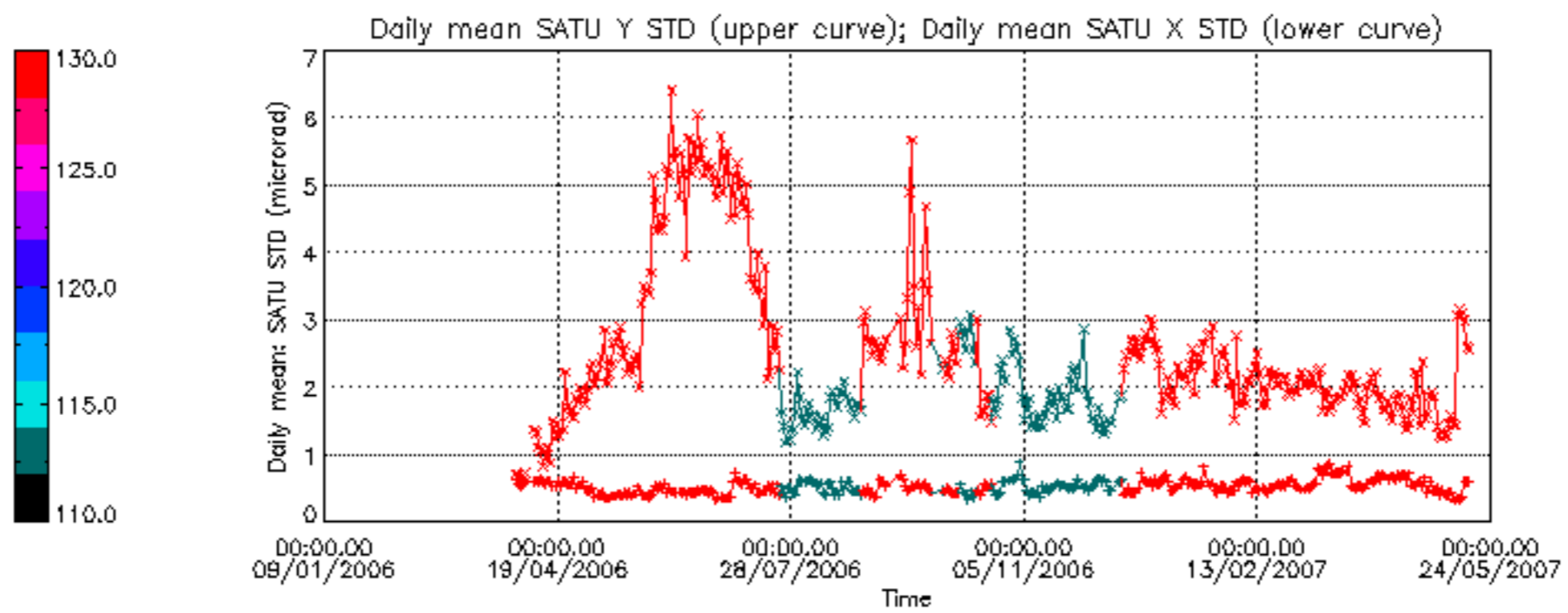


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070501_013443_000038472057_00403_27010_3611.N1

1; -370.3; 01-MAY-2007 01:34:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27010
 2; -150.6; 01-MAY-2007 01:38:22; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27010
 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
 8; 1036.0; 01-MAY-2007 01:58:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;27011
 9; 1129.0; 01-MAY-2007 01:59:42; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27011
 10; 1254.7; 01-MAY-2007 02:01:48; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;27011
 11; 1512.0; 01-MAY-2007 02:06:05; Dark ; 41.0; 169; 46Gam Hya ; 2.99; 4700;occ; 82; 0;27011
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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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 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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 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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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
11; 5556.9; 03-MAY-2007 10:33:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;27044
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13; 5904.7; 03-MAY-2007 10:39:04; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27044
14; 6056.1; 03-MAY-2007 10:41:35; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27044
15; 6623.6; 03-MAY-2007 10:51:03; Dark ; 45.5; 43; Alp TrA ; 1.91; 4250;occ; 91; 0;27044
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
10; 4003.0; 03-MAY-2007 11:47:58; Bright; 17.0; 68; 18Alp Cas ; 2.22; 4500;occ; 34; 0;27045
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3; -304.3; 03-MAY-2007 12:16:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27045
4; -130.7; 03-MAY-2007 12:19:40; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;27045
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
7; 719.9; 03-MAY-2007 12:33:51; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27046
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2; 840.5; 03-MAY-2007 12:35:51; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;27046
3; 1047.2; 03-MAY-2007 12:39:18; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;27046
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
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; 2098.2; 03-MAY-2007 12:56:49; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27046
3; 2560.0; 03-MAY-2007 13:04:31; Bright; 22.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 45; 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
4; 3003.4; 03-MAY-2007 13:11:54; Bright; 26.5; 36; 50Alp UMa ; 1.80; 6300;occ; 53; 0;27046
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3; 588.4; 03-MAY-2007 14:12:15; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27047
4; 720.2; 03-MAY-2007 14:14:27; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27047
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3; 1139.7; 03-MAY-2007 14:21:26; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;27047
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5; 2559.9; 03-MAY-2007 14:45:07; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27047
6; 2838.3; 03-MAY-2007 14:49:45; Bright; 18.5; 87; 64Gam UMA ; 2.43; 11000;occ; 37; 0;27047
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2; 2926.5; 03-MAY-2007 14:51:13; Bright; 35.5; 82; 48Bet Uma ; 2.37; 10600;occ; 71; 0;27047
3; 3003.7; 03-MAY-2007 14:52:30; Bright; 33.5; 36; 50Alp UMA ; 1.80; 6300;occ; 67; 0;27047
4; 3445.1; 03-MAY-2007 14:59:52; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27047
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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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5; 3445.0; 03-MAY-2007 18:21:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27049
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7; 4003.2; 03-MAY-2007 18:30:22; Bright; 46.5; 68; 18Alp Cas ; 2.22; 4500;occ; 93; 0;27049
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7; 3175.5; 21-MAY-2007 12:08:41; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;27303
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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
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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
23; 6994.9; 21-MAY-2007 18:14:08; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27306

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5; 2373.0; 21-MAY-2007 13:35:54; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27304
6; 2562.2; 21-MAY-2007 13:39:03; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27304
7; 3059.8; 21-MAY-2007 13:47:21; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;27304
8; 3175.5; 21-MAY-2007 13:49:17; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;27304
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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16; 5833.7; 21-MAY-2007 14:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27304
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4; 1732.0; 21-MAY-2007 15:05:49; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27305
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8; 2562.1; 21-MAY-2007 15:19:39; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27305
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10; 3175.4; 21-MAY-2007 15:29:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27305
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3; -39.7; 22-MAY-2007 02:20:29; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27311
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6; 798.0; 22-MAY-2007 02:34:27; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27312
7; 961.6; 22-MAY-2007 02:37:10; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;27312
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