GOMOS Daily Report 16-MAY-2007

Level 0 and Level 1 products

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Level 2 products

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1. General Info

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.

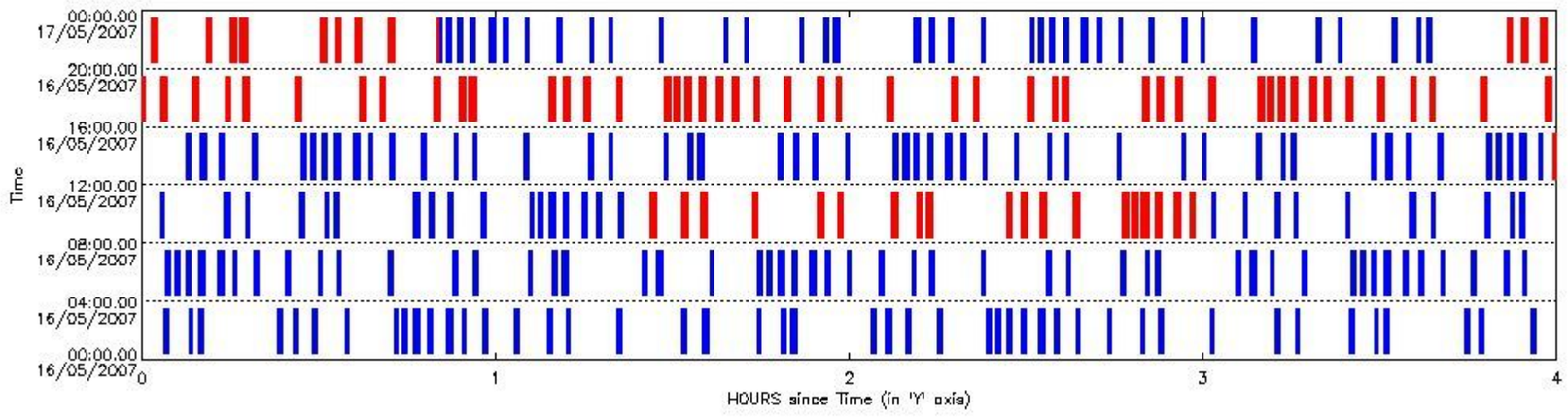
Item	Value
Time of report generation	18MAY2007 05:44:55
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (16MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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
16-MAY-2007 09:26:03	24AlpSer	102	27230
16-MAY-2007 09:31:38		83	27230
16-MAY-2007 09:34:46	27GamBoo	180	27230
16-MAY-2007 09:43:28	14EtaDra	119	27230
16-MAY-2007 09:54:24	5AlpCep	89	27230
16-MAY-2007 09:57:57	11BetCas	74	27230
16-MAY-2007 10:07:10	21AlpAnd	58	27230
16-MAY-2007 10:11:19	88GamPeg	140	27230
16-MAY-2007 10:12:58	54AlpPeg	90	27230
16-MAY-2007 10:26:35	24AlpPsA	18	27230
16-MAY-2007 10:29:04	DSA1037	0	27230
16-MAY-2007 10:32:25	AlpGru	31	27230
16-MAY-2007 10:37:58	AlpPav	45	27231
16-MAY-2007 10:46:12	AlpAra	147	27231
16-MAY-2007 10:47:43	TheSco	40	27231

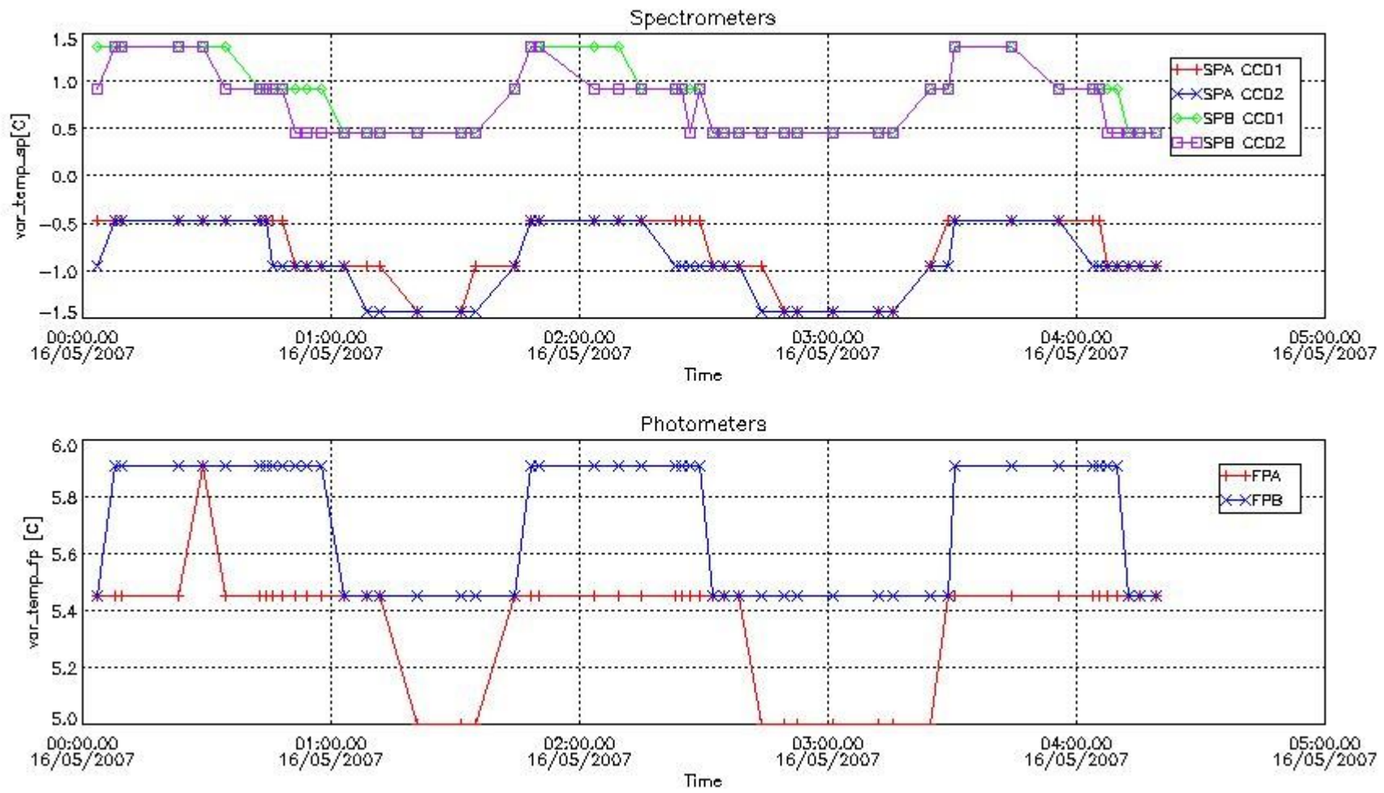
16-MAY-2007 10:49:35	35LamSco	25	27231
16-MAY-2007 10:51:56	26EpsSco	75	27231
16-MAY-2007 10:55:02	21AlpSco	16	27231
16-MAY-2007 10:57:38	8Bet1Sco	97	27231
16-MAY-2007 15:59:27	8Bet1Sco	97	27234
16-MAY-2007 16:03:07	27BetLib	104	27234
16-MAY-2007 16:08:25	24AlpSer	102	27234
16-MAY-2007 16:14:01		83	27234
16-MAY-2007 16:17:09	27GamBoo	180	27234
16-MAY-2007 16:25:50	14EtaDra	119	27234
16-MAY-2007 16:36:46	5AlpCep	89	27234
16-MAY-2007 16:40:21	11BetCas	74	27234
16-MAY-2007 16:49:34	21AlpAnd	58	27234
16-MAY-2007 16:53:44	88GamPeg	140	27234
16-MAY-2007 16:55:23	54AlpPeg	90	27234
16-MAY-2007 17:09:02	24AlpPsA	18	27234
16-MAY-2007 17:11:31	DSA1037	0	27234
16-MAY-2007 17:14:52	AlpGru	31	27234
16-MAY-2007 17:20:25	AlpPav	45	27235
16-MAY-2007 17:28:38	AlpAra	147	27235
16-MAY-2007 17:30:10	TheSco	40	27235
16-MAY-2007 17:32:02	35LamSco	25	27235
16-MAY-2007 17:34:22	26EpsSco	75	27235
16-MAY-2007 17:37:27	21AlpSco	16	27235
16-MAY-2007 17:40:03	8Bet1Sco	97	27235
16-MAY-2007 17:43:43	27BetLib	104	27235
16-MAY-2007 17:49:01	24AlpSer	102	27235
16-MAY-2007 17:54:37		83	27235
16-MAY-2007 17:57:45	27GamBoo	180	27235
16-MAY-2007 18:06:25	14EtaDra	119	27235
16-MAY-2007 18:17:22	5AlpCep	89	27235
16-MAY-2007 18:20:57	11BetCas	74	27235
16-MAY-2007 18:30:10	21AlpAnd	58	27235
16-MAY-2007 18:34:20	88GamPeg	140	27235
16-MAY-2007 18:36:00	54AlpPeg	90	27235
16-MAY-2007 18:49:39	24AlpPsA	18	27235
16-MAY-2007 18:52:08	DSA1037	0	27235
16-MAY-2007 18:55:28	AlpGru	31	27235
16-MAY-2007 19:01:02	AlpPav	45	27236
16-MAY-2007 19:09:15	AlpAra	147	27236
16-MAY-2007 19:10:46	TheSco	40	27236
16-MAY-2007 19:12:38	35LamSco	25	27236
16-MAY-2007 19:14:58	26EpsSco	75	27236
16-MAY-2007 19:18:03	21AlpSco	16	27236
16-MAY-2007 19:20:39	8Bet1Sco	97	27236
16-MAY-2007 19:24:19	27BetLib	104	27236
16-MAY-2007 19:29:37	24AlpSer	102	27236
16-MAY-2007 19:35:13		83	27236
16-MAY-2007 19:38:21	27GamBoo	180	27236
16-MAY-2007 19:47:01	14EtaDra	119	27236
16-MAY-2007 19:57:57	5AlpCep	89	27236
16-MAY-2007 20:01:32	11BetCas	74	27236
16-MAY-2007 20:10:46	21AlpAnd	58	27236
16-MAY-2007 20:14:57	88GamPeg	140	27236
16-MAY-2007 20:16:36	54AlpPeg	90	27236
16-MAY-2007 20:30:16	24AlpPsA	18	27236
16-MAY-2007 20:32:45	DSA1037	0	27236
16-MAY-2007 20:36:05	AlpGru	31	27236
16-MAY-2007 20:41:38	AlpPav	45	27237

16-MAY-2007 20:49:51	AlpAra	147	27237
16-MAY-2007 23:51:29	24AlpPsA	18	27238
16-MAY-2007 23:53:58	DSA1037	0	27238
16-MAY-2007 23:57:18	AlpGru	31	27238

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_1PNPDE20070516_000340_000000432058_00116_27224_7527.N1	16-MAY-2007 00:03:40	Bright	43.000	58	21Alp And	2.0730	11000.	86	27224	No
2	GOM_TRA_1PNPDE20070516_000749_000000422058_00116_27224_7528.N1	16-MAY-2007 00:07:49	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	27224	No
3	GOM_TRA_1PNPDE20070516_000925_000000542058_00116_27224_7529.N1	16-MAY-2007 00:09:25	Dark	53.500	90	54Alp Peg	2.4870	11000.	107	27224	No
4	GOM_TRA_1PNPDE20070516_002301_000000482058_00116_27224_7659.N1	16-MAY-2007 00:23:01	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	27224	No
5	GOM_TRA_1PNPDE20070516_002851_000000442058_00116_27224_7660.N1	16-MAY-2007 00:28:51	Dark	43.500	31	Alp Gru	1.7340	15200.	87	27224	No
6	GOM_TRA_1PNPDE20070516_003425_000000412058_00117_27225_7661.N1	16-MAY-2007 00:34:25	Dark	40.500	45	Alp Pav	1.9400	26000.	81	27225	No
7	GOM_TRA_1PNPDE20070516_004240_000000442058_00117_27225_7662.N1	16-MAY-2007 00:42:40	Straylight	43.500	147	Alp Ara	2.8770	26000.	87	27225	No
8	GOM_TRA_1PNPDE20070516_004410_000000462058_00117_27225_7663.N1	16-MAY-2007 00:44:10	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27225	No
9	GOM_TRA_1PNPDE20070516_004602_000000532058_00117_27225_7664.N1	16-MAY-2007 00:46:02	Straylight	52.500	25	35Lam Sco	1.6200	28000.	105	27225	No
10	GOM_TRA_1PNPDE20070516_004824_000000512058_00117_27225_7665.N1	16-MAY-2007 00:48:24	Twi_and_stray	51.000	75	26Eps Sco	2.2910	4250.0	102	27225	No
11	GOM_TRA_1PNPDE20070516_005131_000000652058_00117_27225_7666.N1	16-MAY-2007 00:51:31	Twi_and_stray	65.000	16	21Alp Sco	1.0200	3000.0	130	27225	No
12	GOM_TRA_1PNPDE20070516_005408_000000462058_00117_27225_7667.N1	16-MAY-2007 00:54:08	Bright	46.000	97	8Bet1Sco	2.5610	30000.	92	27225	No
13	GOM_TRA_1PNPDE20070516_005749_000000392058_00117_27225_7668.N1	16-MAY-2007 00:57:49	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	27225	No
14	GOM_TRA_1PNPDE20070516_010311_000000442058_00117_27225_7669.N1	16-MAY-2007 01:03:11	Bright	43.500	102	24Alp Ser	2.6000	4250.0	87	27225	No
15	GOM_TRA_1PNPDE20070516_010846_000000402058_00117_27225_7670.N1	16-MAY-2007 01:08:46	Bright	40.000	83		2.3780	11000.	80	27225	No
16	GOM_TRA_1PNPDE20070516_011154_000000372058_00117_27225_7671.N1	16-MAY-2007 01:11:54	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	27225	No
17	GOM_TRA_1PNPDE20070516_012037_000000412058_00117_27225_7672.N1	16-MAY-2007 01:20:37	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	27225	No
18	GOM_TRA_1PNPDE20070516_013133_000000442058_00117_27225_7673.N1	16-MAY-2007 01:31:33	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	27225	No
19	GOM_TRA_1PNPDE20070516_013504_000000552058_00117_27225_7674.N1	16-MAY-2007 01:35:04	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	27225	No
20	GOM_TRA_1PNPDE20070516_014416_000000462058_00117_27225_7675.N1	16-MAY-2007 01:44:16	Bright	45.500	58	21Alp And	2.0730	11000.	91	27225	No
21	GOM_TRA_1PNPDE20070516_014824_000000422058_00117_27225_7676.N1	16-MAY-2007 01:48:24	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	27225	No
22	GOM_TRA_1PNPDE20070516_015002_000000562058_00117_27225_7677.N1	16-MAY-2007 01:50:02	Dark	56.000	90	54Alp Peg	2.4870	11000.	112	27225	No
23	GOM_TRA_1PNPDE20070516_020338_000000522058_00117_27225_7829.N1	16-MAY-2007 02:03:38	Dark	51.500	18	24Alp PsA	1.1660	9700.0	103	27225	No
24	GOM_TRA_1PNPDE20070516_020928_000000492058_00117_27225_7830.N1	16-MAY-2007 02:09:28	Dark	49.000	31	Alp Gru	1.7340	15200.	98	27225	No
25	GOM_TRA_1PNPDE20070516_021502_000000432058_00118_27226_7831.N1	16-MAY-2007 02:15:02	Dark	42.500	45	Alp Pav	1.9400	26000.	85	27226	No
26	GOM_TRA_1PNPDE20070516_022316_000000442058_00118_27226_7832.N1	16-MAY-2007 02:23:16	Straylight	43.500	147	Alp Ara	2.8770	26000.	87	27226	No
27	GOM_TRA_1PNPDE20070516_022447_000000522058_00118_27226_7833.N1	16-MAY-2007 02:24:47	Straylight	52.000	40	The Sco	1.8590	7100.0	104	27226	No
28	GOM_TRA_1PNPDE20070516_022639_000000522058_00118_27226_7834.N1	16-MAY-2007 02:26:39	Straylight	52.000	25	35Lam Sco	1.6200	28000.	104	27226	No
29	GOM_TRA_1PNPDE20070516_022901_000000502058_00118_27226_7835.N1	16-MAY-2007 02:29:01	Twi_and_stray	50.000	75	26Eps Sco	2.2910	4250.0	100	27226	No
30	GOM_TRA_1PNPDE20070516_023207_000000602058_00118_27226_7836.N1	16-MAY-2007 02:32:07	Twi_and_stray	60.000	16	21Alp Sco	1.0200	3000.0	120	27226	No
31	GOM_TRA_1PNPDE20070516_023444_000000442058_00118_27226_7837.N1	16-MAY-2007 02:34:44	Bright	44.000	97	8Bet1Sco	2.5610	30000.	88	27226	No
32	GOM_TRA_1PNPDE20070516_023825_000000392058_00118_27226_7838.N1	16-MAY-2007 02:38:25	Bright	39.000	104	27Bet Lib	2.6140	13100.	78	27226	No
33	GOM_TRA_1PNPDE20070516_024347_000000442058_00118_27226_7839.N1	16-MAY-2007 02:43:47	Bright	43.500	102	24Alp Ser	2.6000	4250.0	87	27226	No
34	GOM_TRA_1PNPDE20070516_024922_000000392058_00118_27226_7840.N1	16-MAY-2007 02:49:22	Bright	38.500	83		2.3780	11000.	77	27226	No
35	GOM_TRA_1PNPDE20070516_025230_000000362058_00118_27226_7841.N1	16-MAY-2007 02:52:30	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	27226	No
36	GOM_TRA_1PNPDE20070516_030112_000000372058_00118_27226_7842.N1	16-MAY-2007 03:01:12	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27226	No
37	GOM_TRA_1PNPDE20070516_031209_000000552058_00118_27226_7938.N1	16-MAY-2007 03:12:09	Bright	54.500	89	5Alp Cep	2.4510	8000.0	109	27226	No
38	GOM_TRA_1PNPDE20070516_031540_000000372058_00118_27226_7939.N1	16-MAY-2007 03:15:40	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	27226	No
39	GOM_TRA_1PNPDE20070516_032452_000000432058_00118_27226_7940.N1	16-MAY-2007 03:24:52	Bright	43.000	58	21Alp And	2.0730	11000.	86	27226	No
40	GOM_TRA_1PNPDE20070516_032901_000000432058_00118_27226_7941.N1	16-MAY-2007 03:29:01	Twilight	43.000	140	88Gam Peg	2.8340	26000.	86	27226	No
41	GOM_TRA_1PNPDE20070516_033038_000000562058_00118_27226_7942.N1	16-MAY-2007 03:30:38	Dark	55.500	90	54Alp Peg	2.4870	11000.	111	27226	No
42	GOM_TRA_1PNPDE20070516_034415_000000502058_00118_27226_7943.N1	16-MAY-2007 03:44:15	Dark	50.000	18	24Alp PsA	1.1660	9700.0	100	27226	No
43	GOM_TRA_1PNPDE20070516_035538_000000412058_00119_27227_7944.N1	16-MAY-2007 03:55:38	Dark	40.500	45	Alp Pav	1.9400	26000.	81	27227	No
44	GOM_TRA_1PNPDE20070516_040353_000000432058_00119_27227_7945.N1	16-MAY-2007 04:03:53	Straylight	42.500	147	Alp Ara	2.8770	26000.	85	27227	No
45	GOM_TRA_1PNPDE20070516_040524_000000482058_00119_27227_7946.N1	16-MAY-2007 04:05:24	Straylight	48.000	40	The Sco	1.8590	7100.0	96	27227	No
46	GOM_TRA_1PNPDE20070516_040716_000000542058_00119_27227_7947.N1	16-MAY-2007 04:07:16	Straylight	54.000	25	35Lam Sco	1.6200	28000.	108	27227	No
47	GOM_TRA_1PNPDE20070516_040937_000000542058_00119_27227_7948.N1	16-MAY-2007 04:09:37	Twi_and_stray	53.500	75	26Eps Sco	2.2910	4250.0	107	27227	No
48	GOM_TRA_1PNPDE20070516_041243_000000622058_00119_27227_7949.N1	16-MAY-2007 04:12:43	Twi_and_stray	61.500	16	21Alp Sco	1.0200	3000.0	123	27227	No
49	GOM_TRA_1PNPDE20070516_041521_000000452058_00119_27227_7950.N1	16-MAY-2007 04:15:21	Bright	45.000	97	8Bet1Sco	2.5610	30000.	90	27227	No
50	GOM_TRA_1PNPDE20070516_041901_000000402058_00119_27227_7951.N1	16-MAY-2007 04:19:01	Bright	40.000	104	27Bet Lib	2.6140	13100.	80	27227	No

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

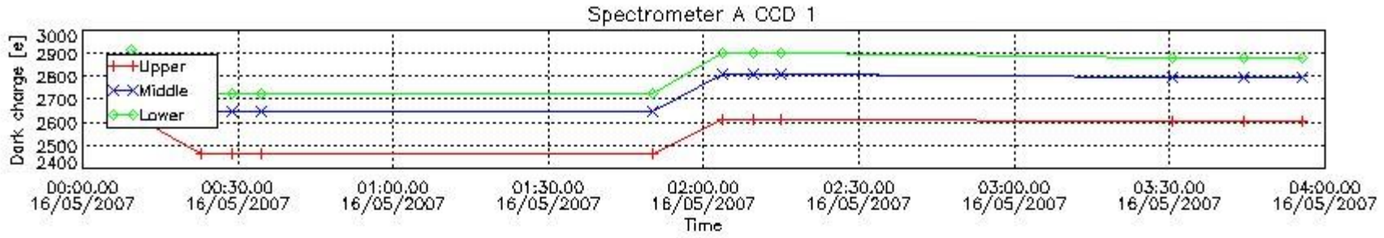


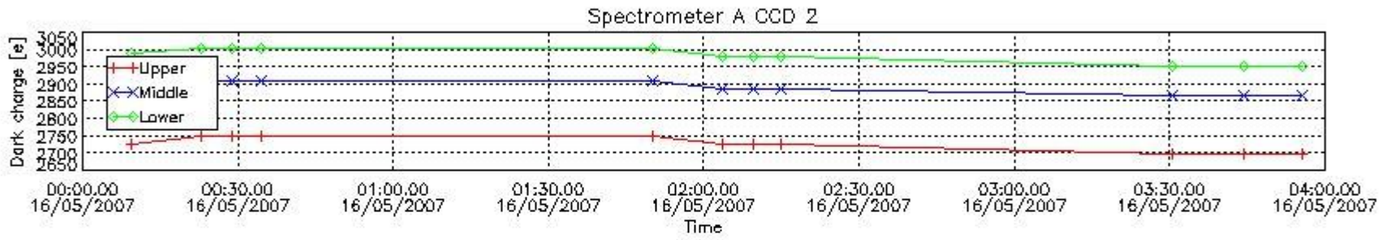
4. Overview of dark signal processing per product

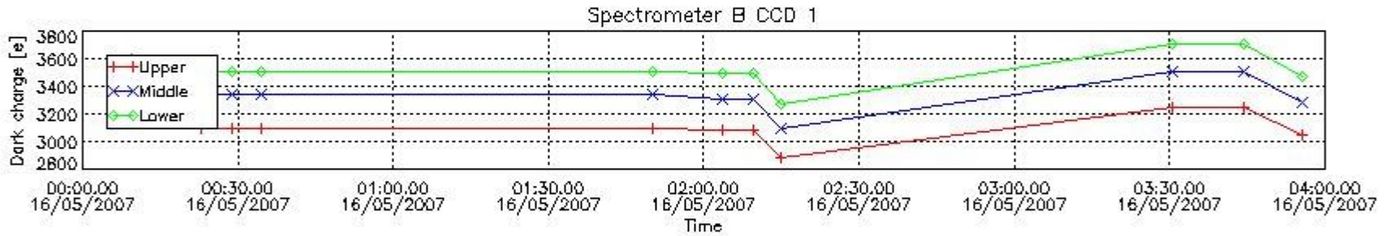
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

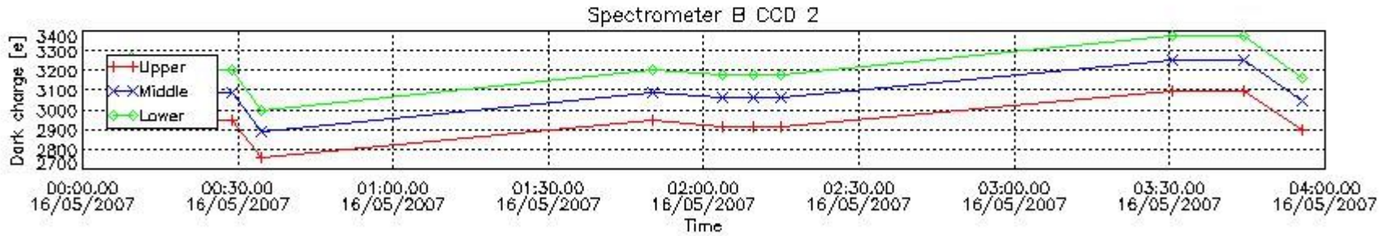
4.1 All products used the DSA observation for the DC computation

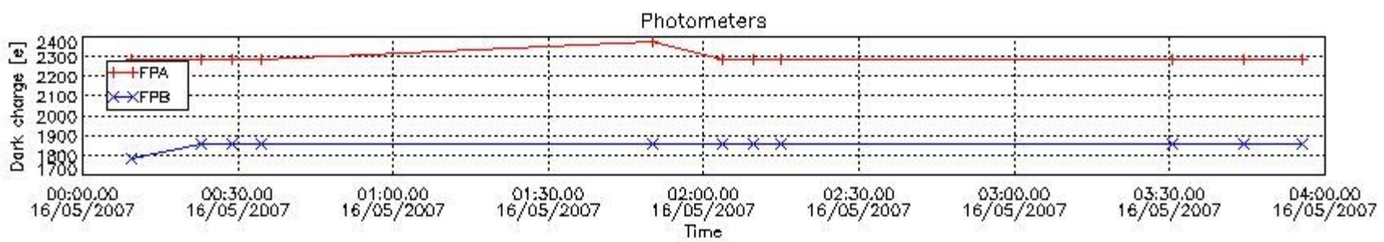
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











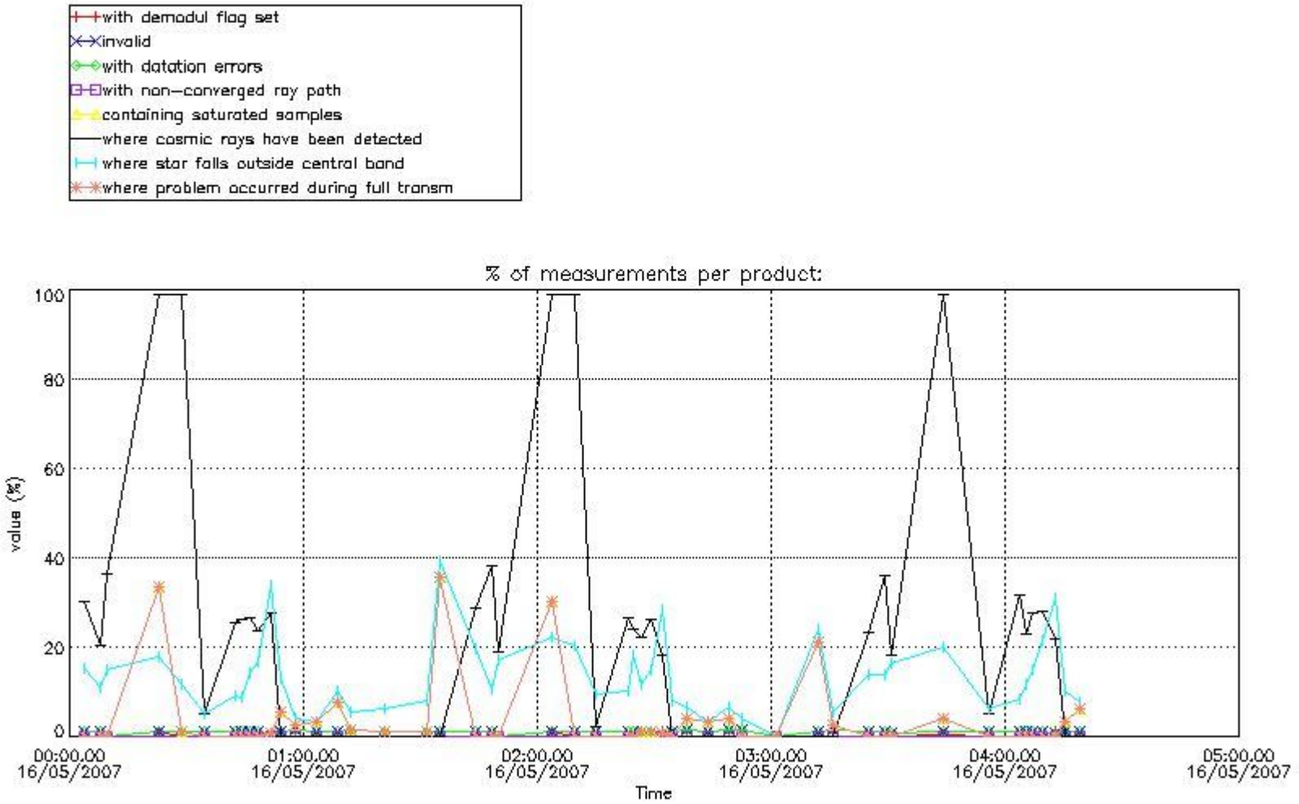
5. Demodulation flag and quality information monitoring

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:

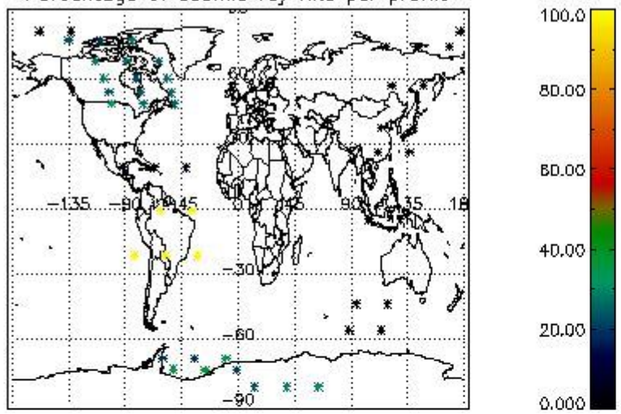
At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

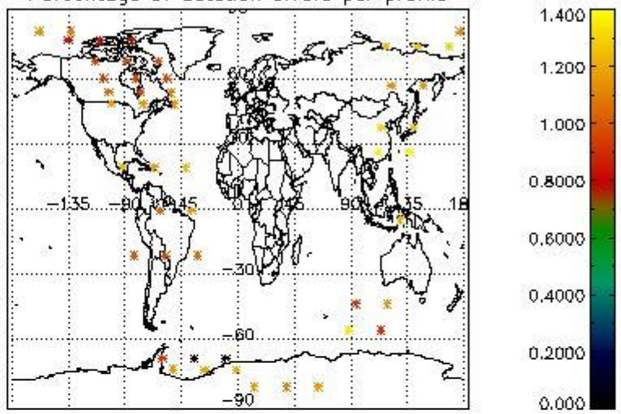


5.3 Plot quality information per product (world map)

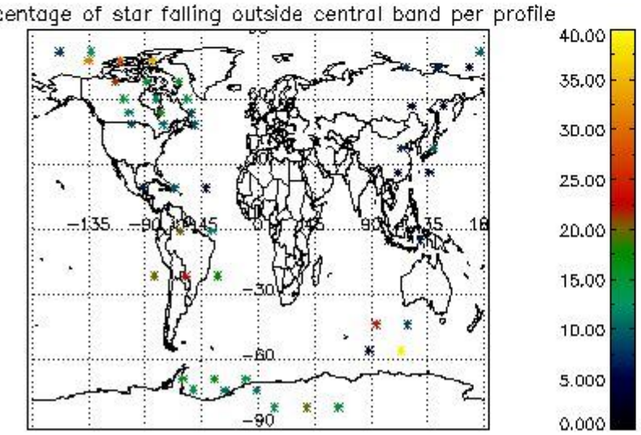
Percentage of cosmic ray hits per profile



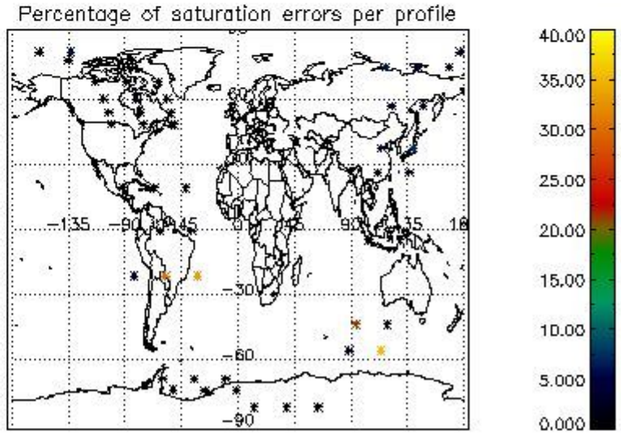
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



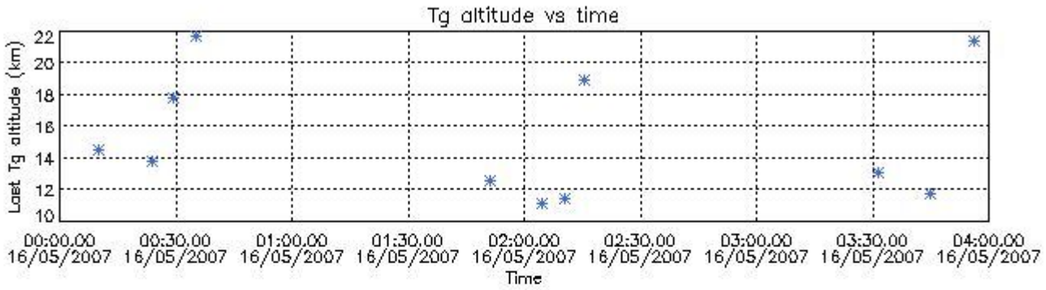
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

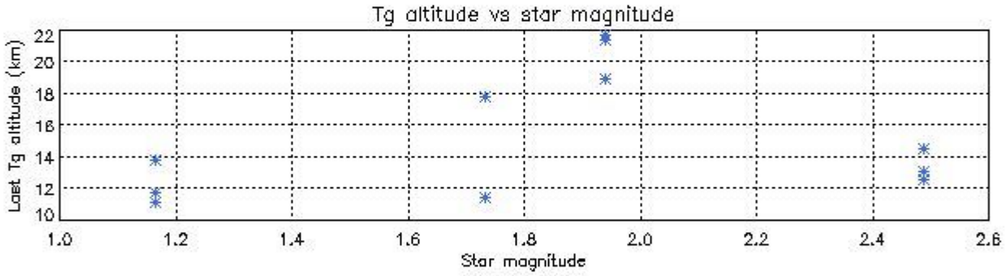
6.1 Statistics on tangent altitude lost:

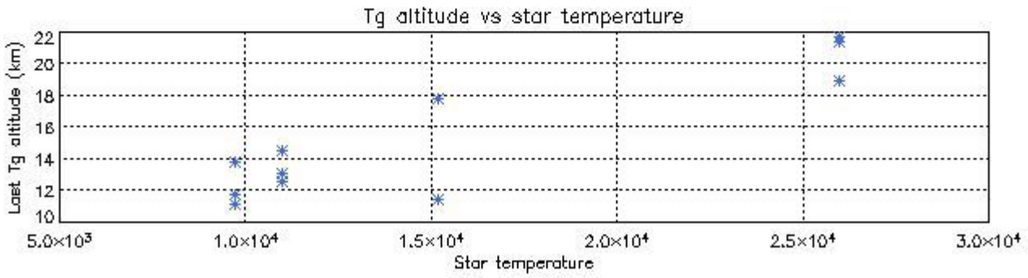
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.280	18.872	15.154
St. deviation:	3.9617	5.5659	1.1565
Maximum:	21.685	29.573	15.925
Minimum:	11.094	3.4828	13.824
Number of data:	11.000	21.000	3.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

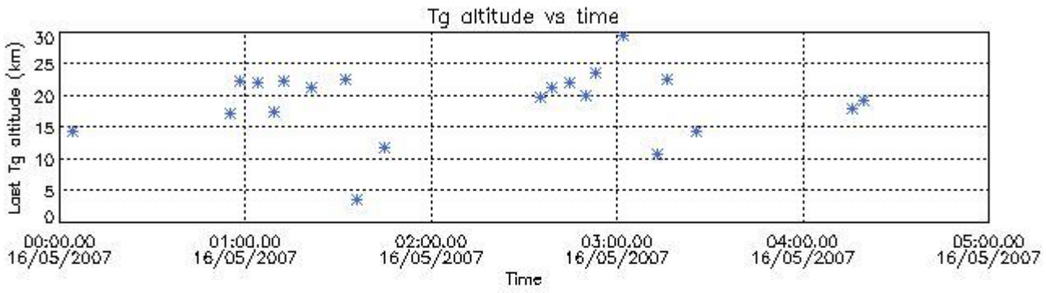


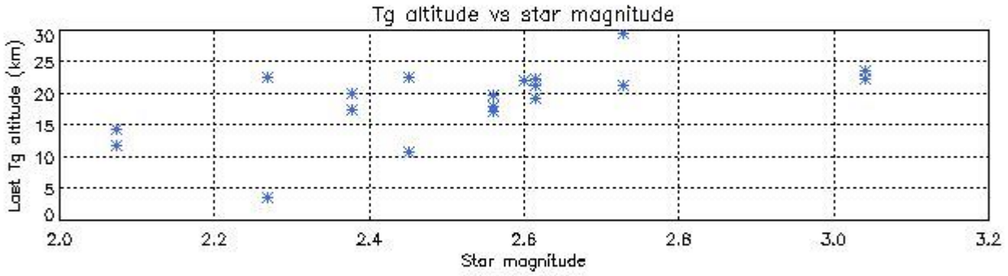


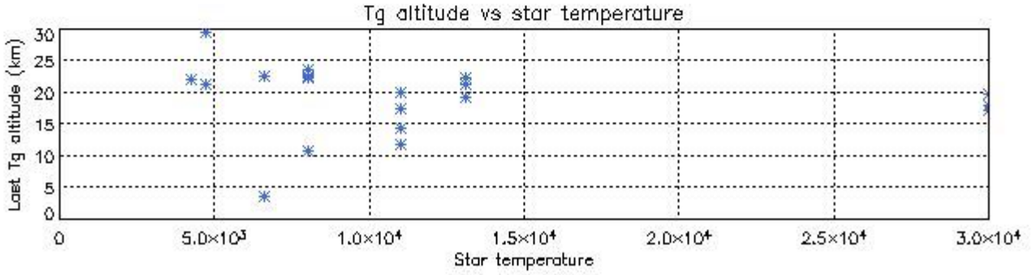


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

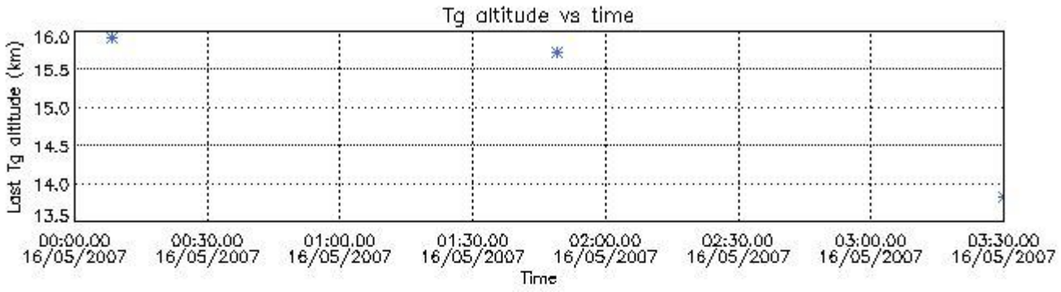


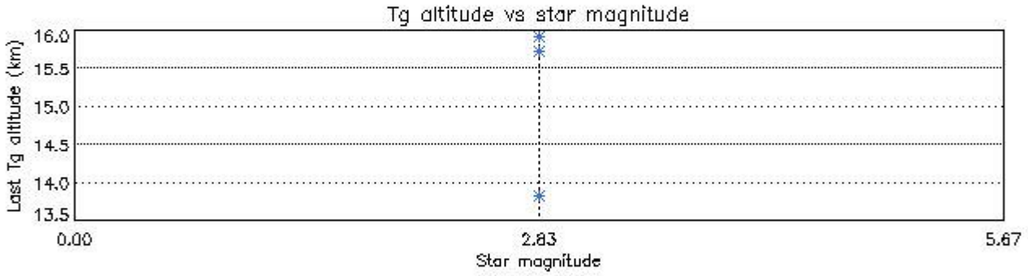


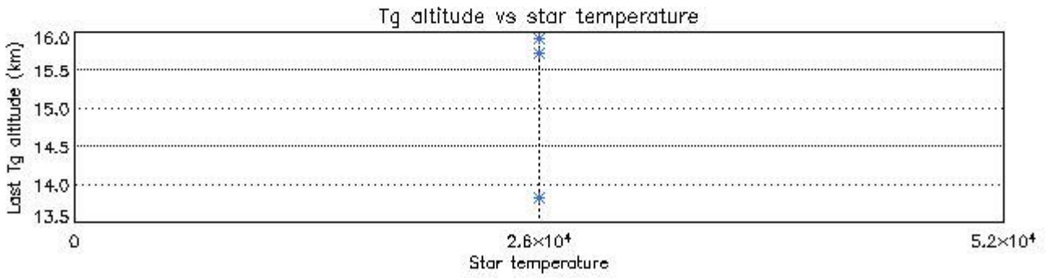


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





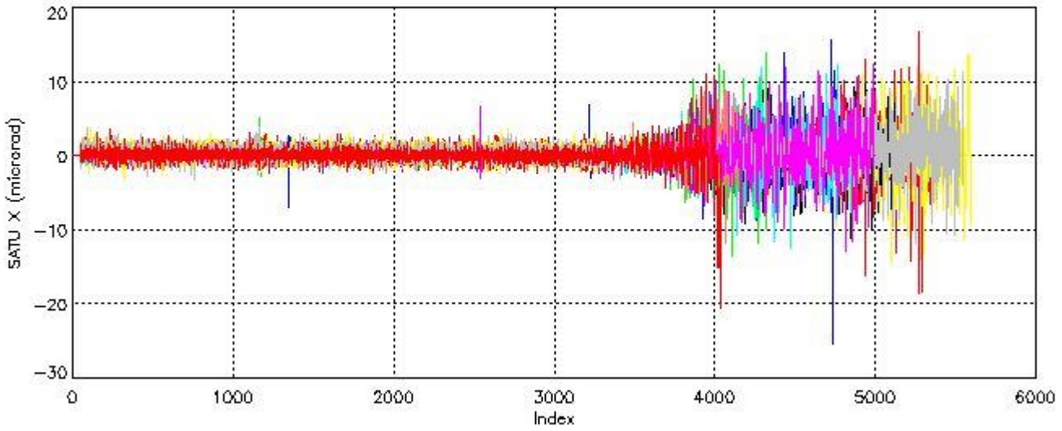


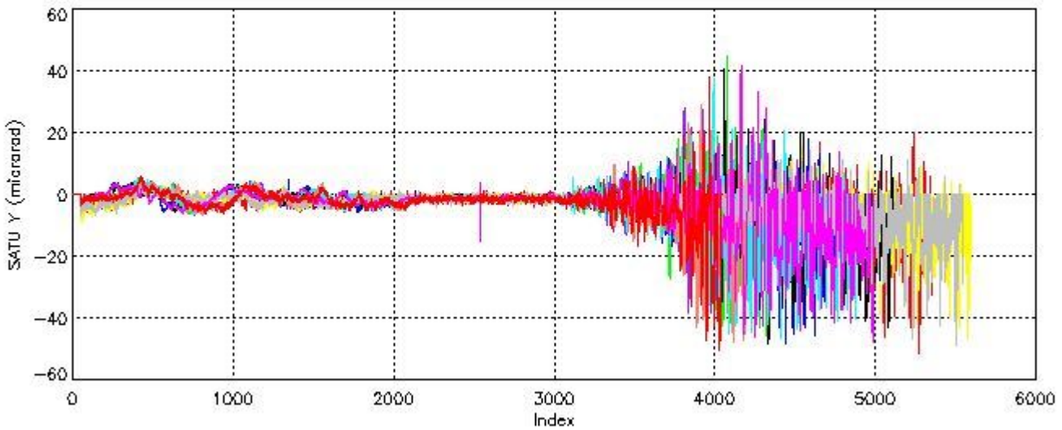
7. Star Acquisition and Tracking Unit (SATU)

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 functin 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 frecuency 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:	0.19661	-1.0193	0.24550	-0.98177
St. deviation:	0.57076	2.2629	0.90002	2.4664
Maximum:	3.8000	5.9000	5.4000	8.4000
Minimum:	-3.3000	-8.7000	-4.7000	-9.3000

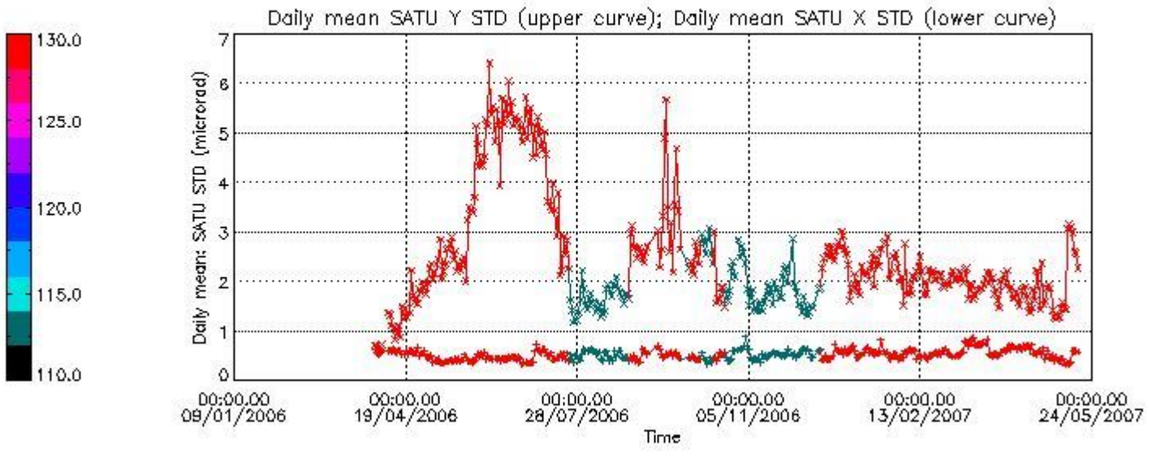
Number of data:	11800.	11800.	19550.	19550.

7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

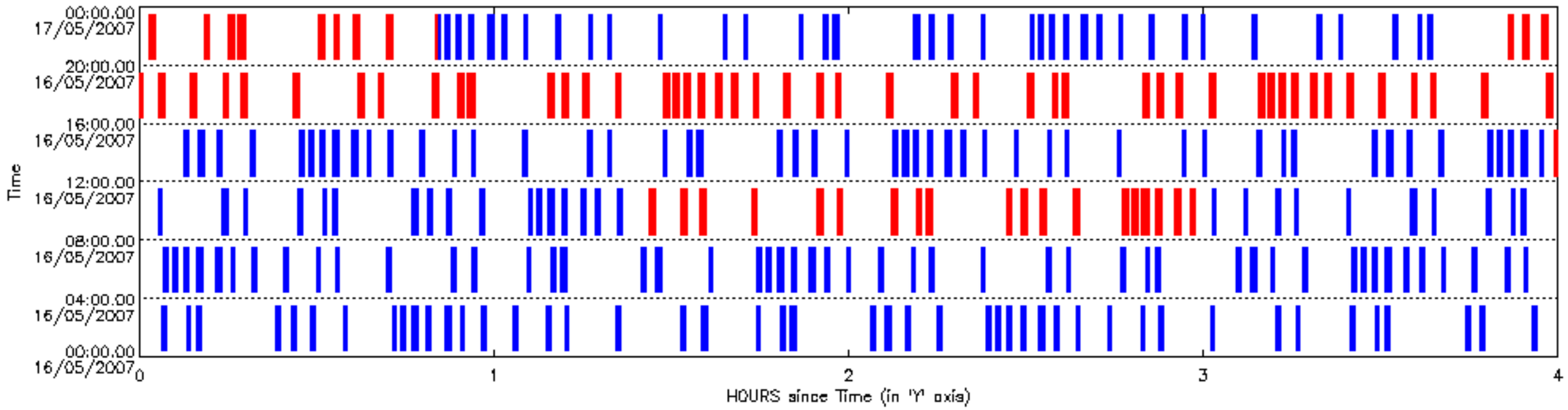
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

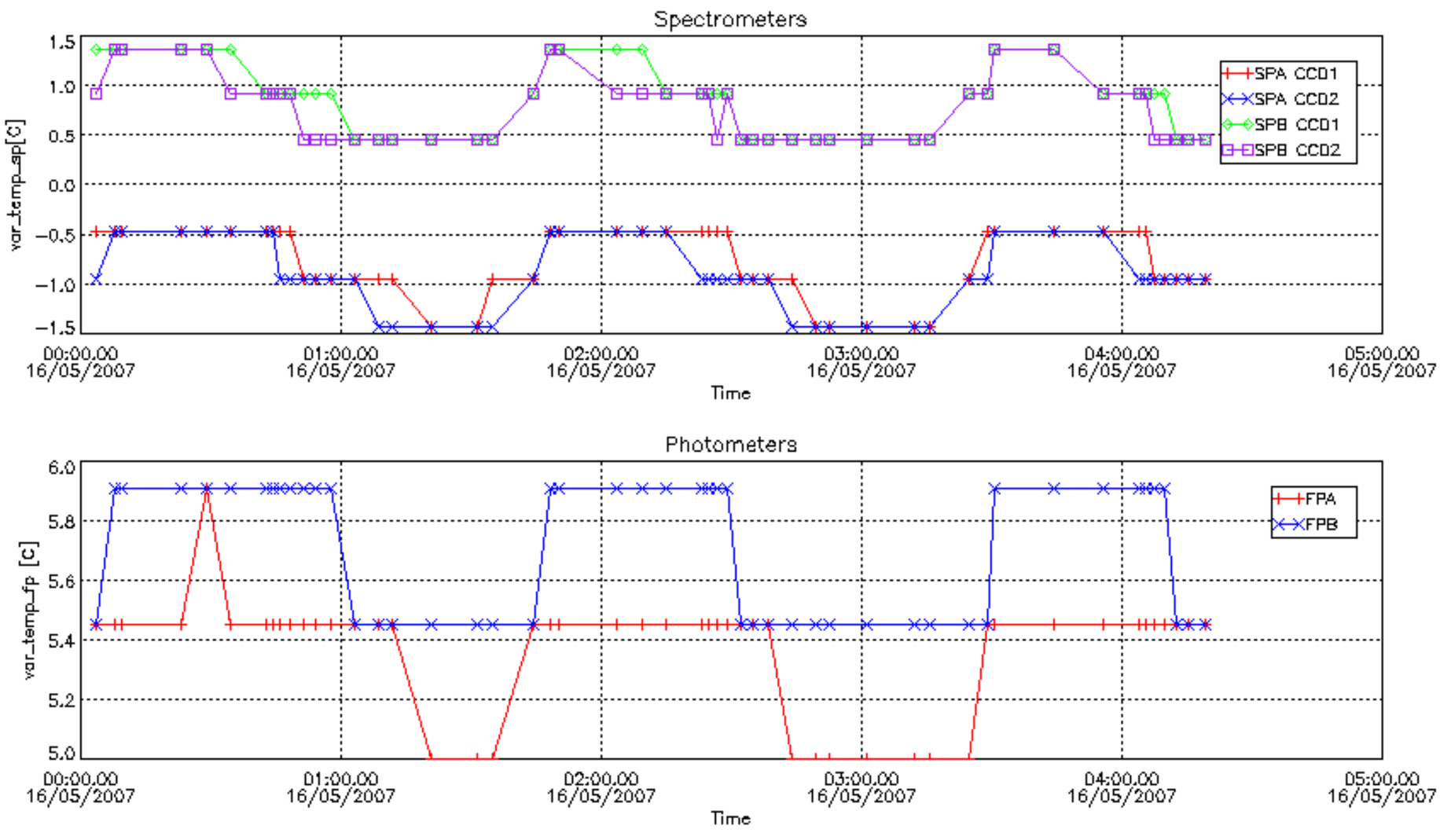


8. Auxiliary Data Files used for the production reported in section 2.4

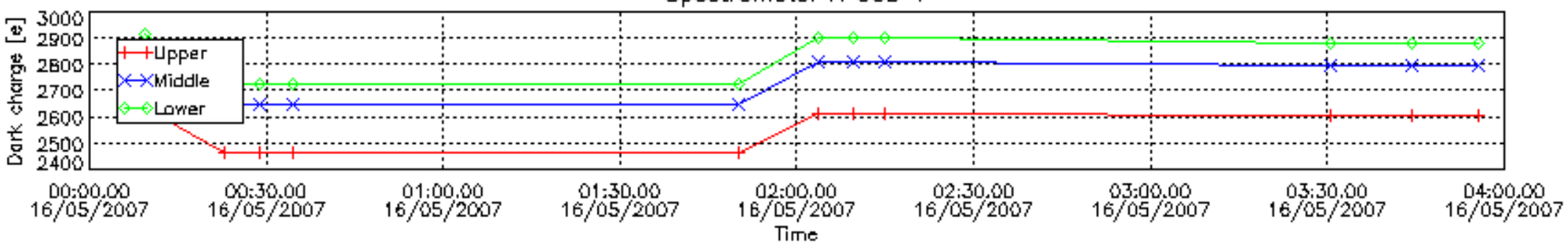
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-MAY-2007 00:03:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	16-MAY-2007 00:03:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-MAY-2007 00:03:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-MAY-2007 00:03:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-MAY-2007 00:03:40
ECMWF_FILE	AUX_ECF_AXNECM20070515_062110_20070515_210000_20070516_090000	1	16-MAY-2007 00:03:40
ECMWF_FILE	AUX_ECF_AXNECM20070515_181111_20070516_030000_20070516_150000	37	16-MAY-2007 03:12:09
OPTIONAL_ECMWF_FILE	MISSING	1	16-MAY-2007 00:03:40
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070515_204632_000060572058_00114_27222_3489.N1	1	16-MAY-2007 00:03:40
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070515_223248_000057382058_00115_27223_3490.N1	4	16-MAY-2007 00:23:01
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070516_001345_000057382058_00116_27224_3491.N1	23	16-MAY-2007 02:03:38
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070516_030346_000060572058_00118_27226_3493.N1	37	16-MAY-2007 03:12:09

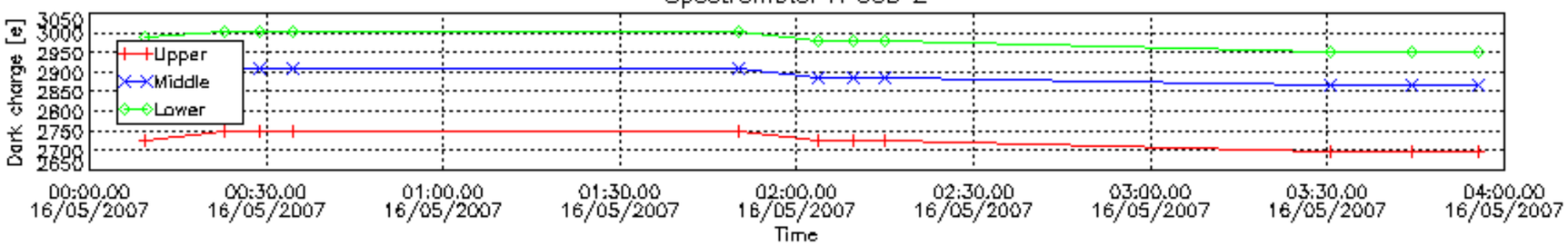

00:00.00
17/05/2007
20:00.00
16/05/2007
16:00.00
16/05/2007
12:00.00
16/05/2007
08:00.00
16/05/2007
04:00.00
16/05/2007
00:00.00
16/05/2007
Time
0
1
2
3
4
HOURS since Time (in 'Y' axis)


Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
16/05/2007
01:00.00
16/05/2007
02:00.00
16/05/2007
03:00.00
16/05/2007
04:00.00
16/05/2007
05:00.00
16/05/2007
Time
Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
FPA
FPB
00:00.00
16/05/2007
01:00.00
16/05/2007
02:00.00
16/05/2007
03:00.00
16/05/2007
04:00.00
16/05/2007
05:00.00
16/05/2007
Time

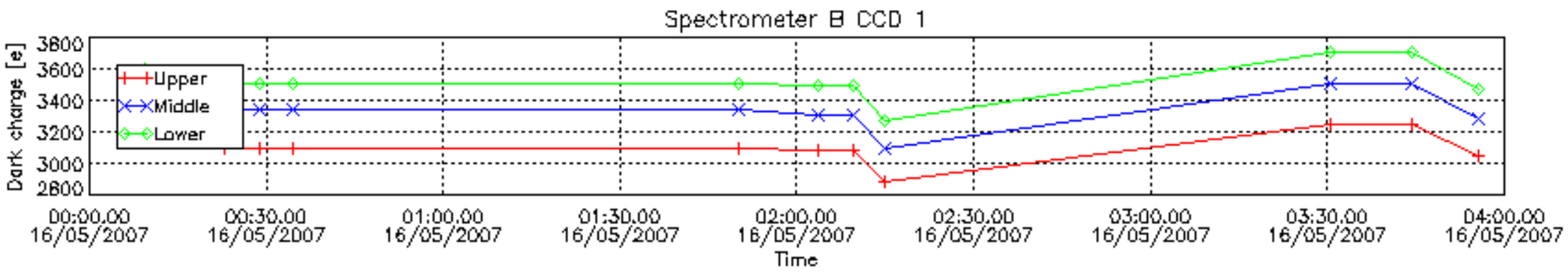
Spectrometer A CCD 1



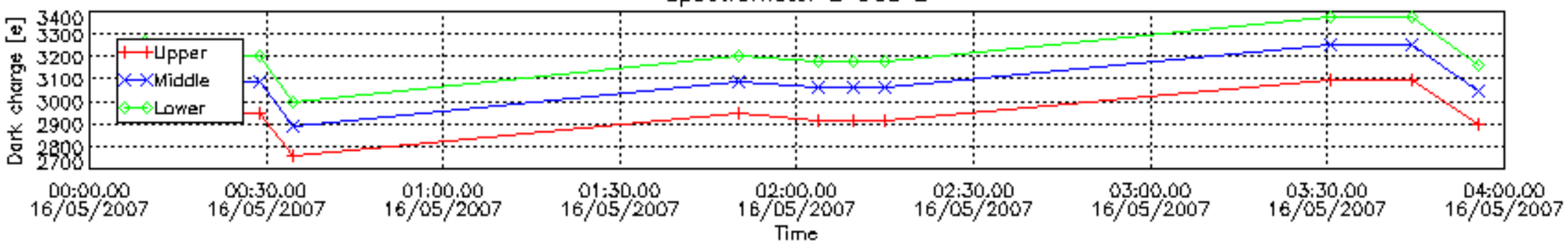
Spectrometer A CCD 2



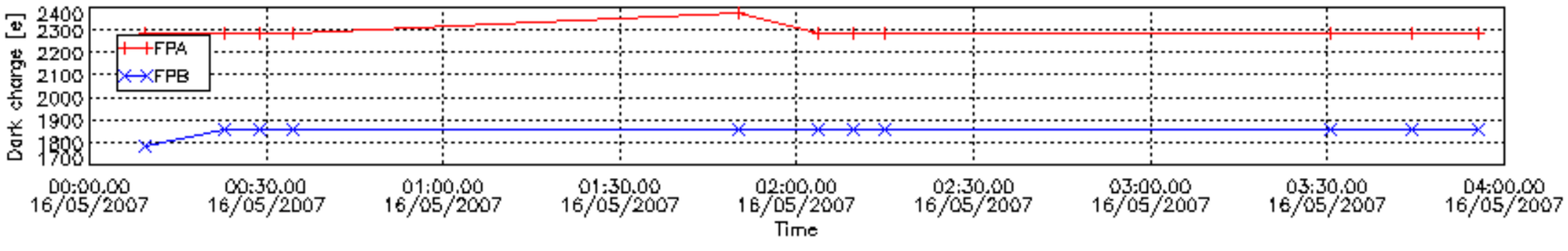
Spectrometer B CCD 1



Spectrometer B CCD 2

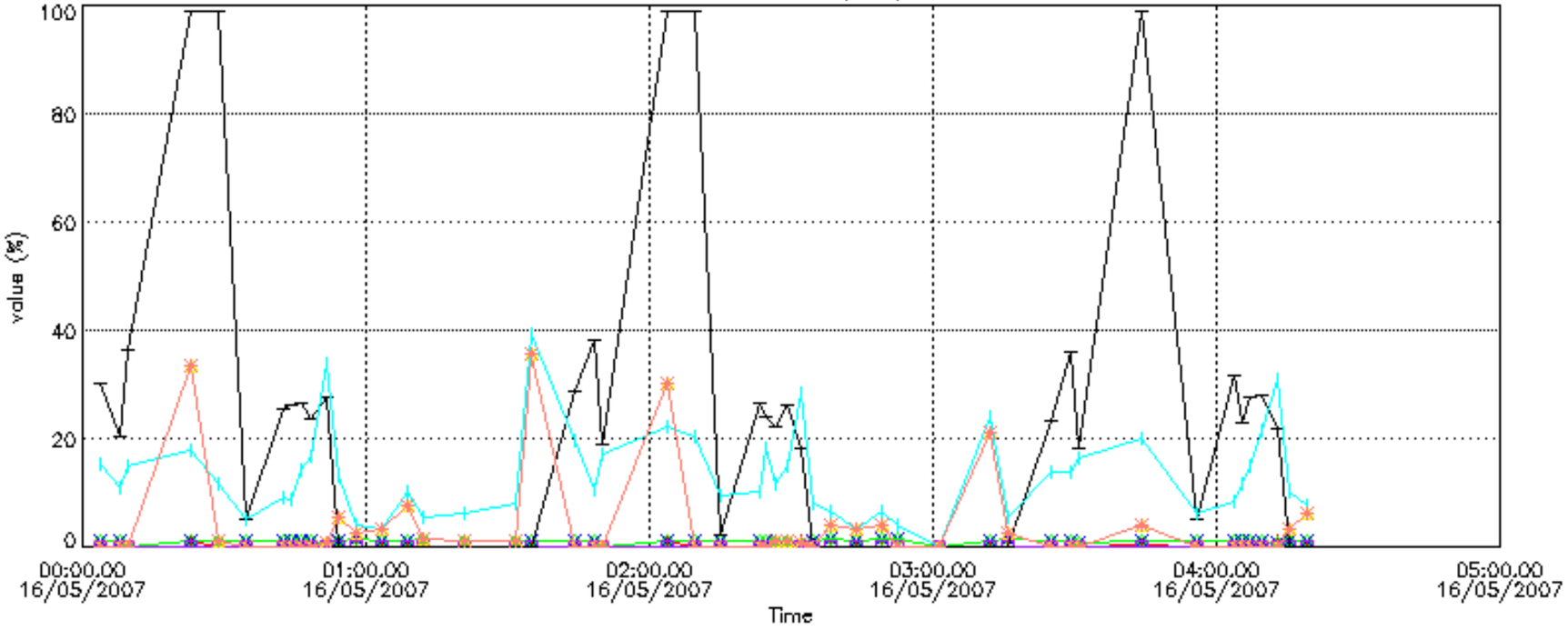


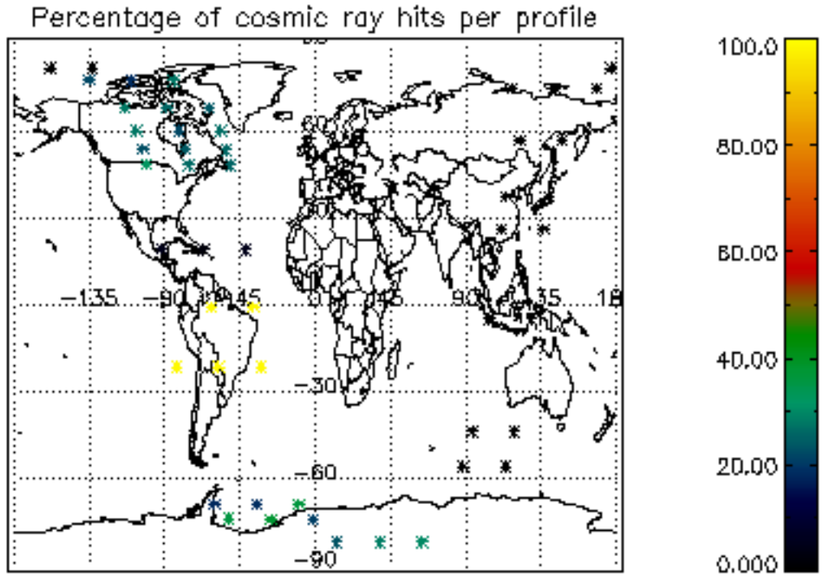
Photometers



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm

% of measurements per product:




Percentage of cosmic ray hits per profile
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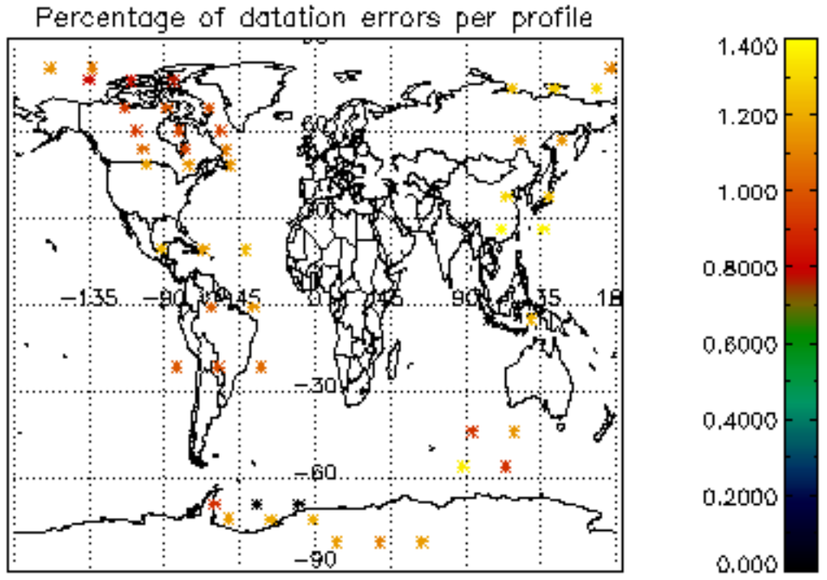
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90


Percentage of datation errors per profile
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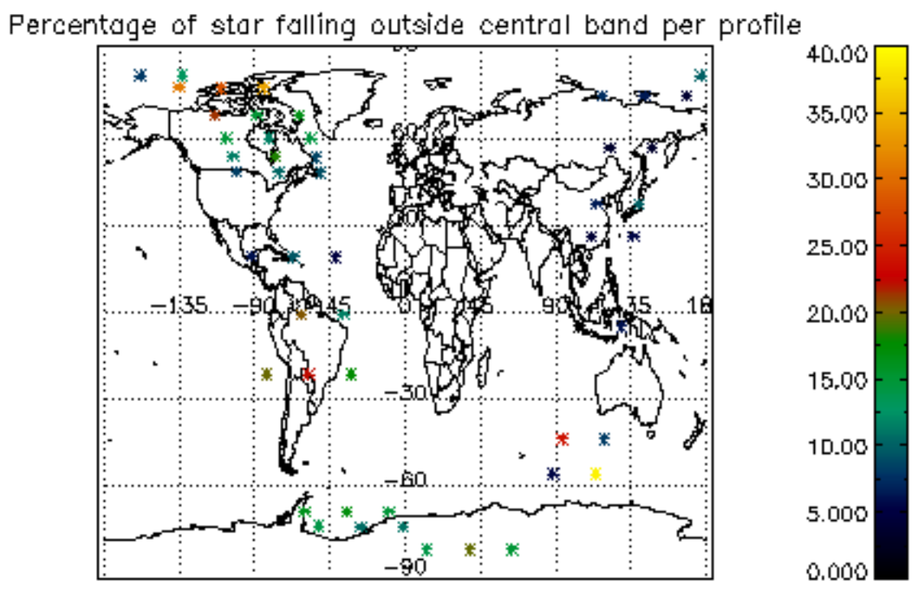
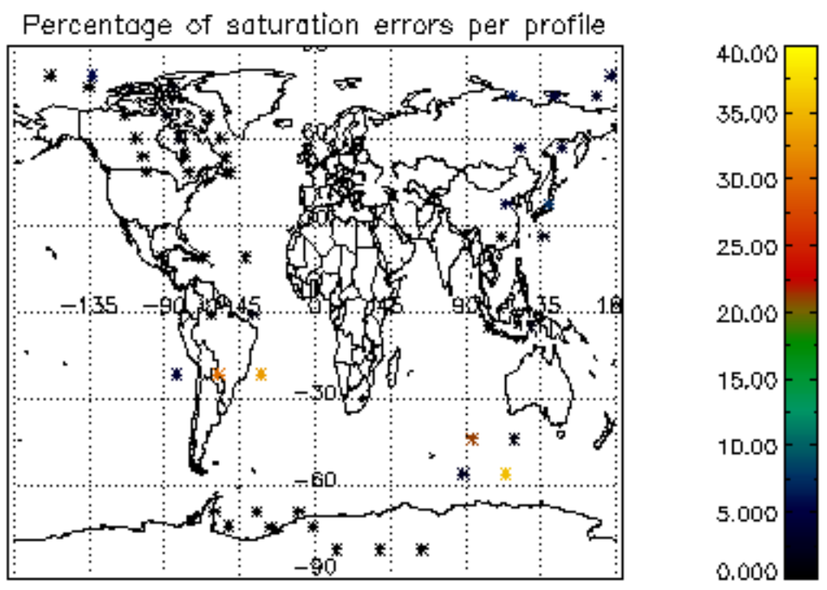
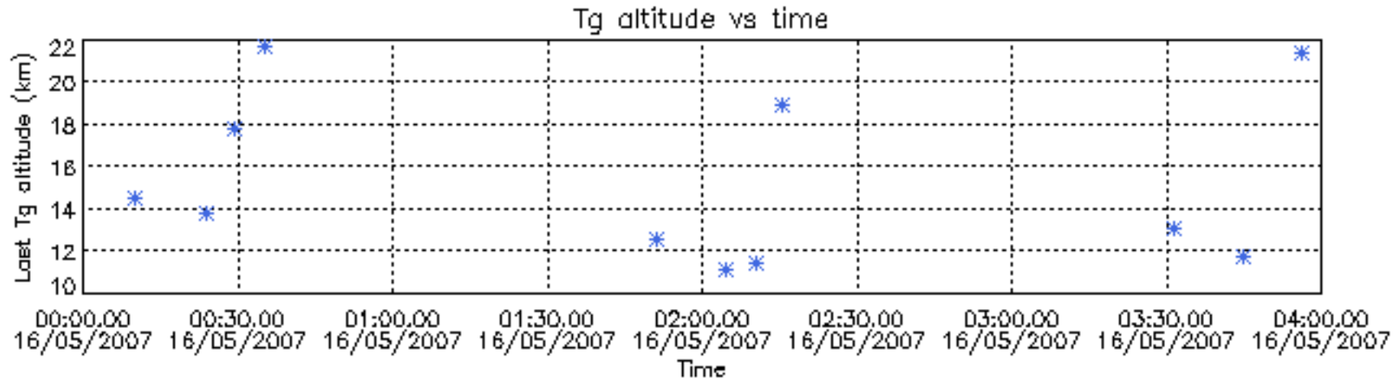
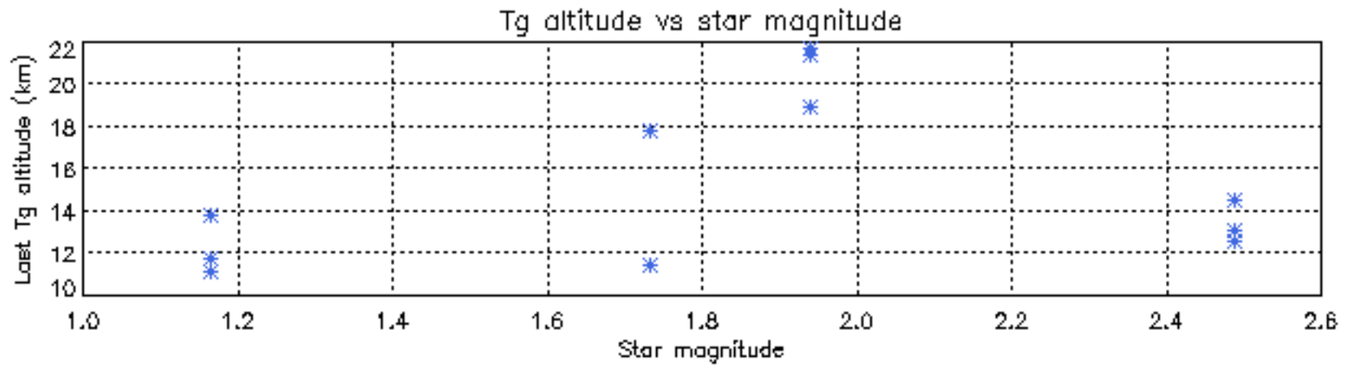
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

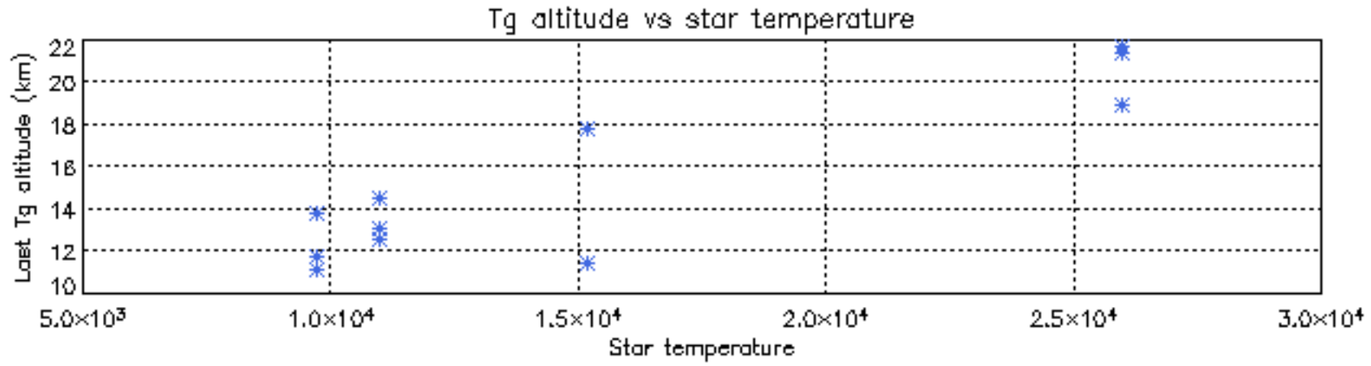

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

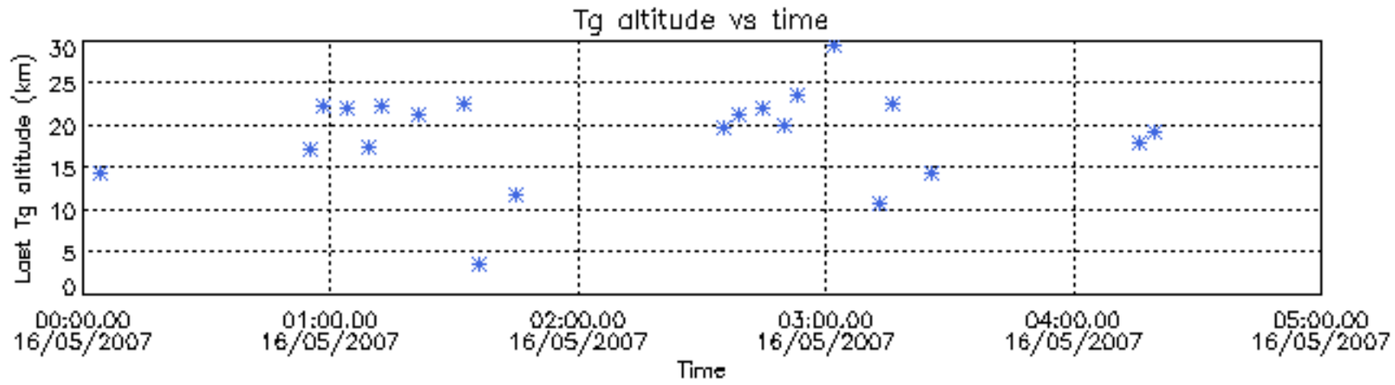
Tangent altitude at which the star is lost

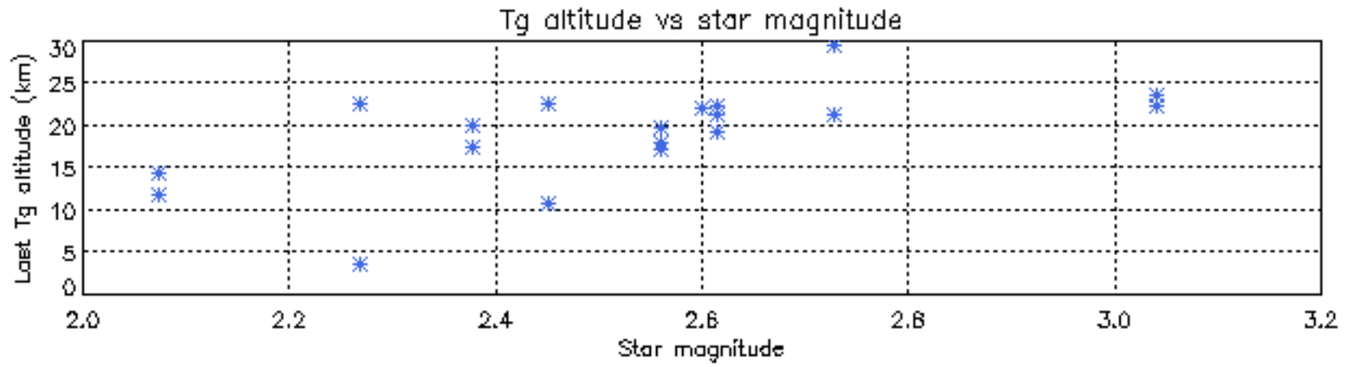


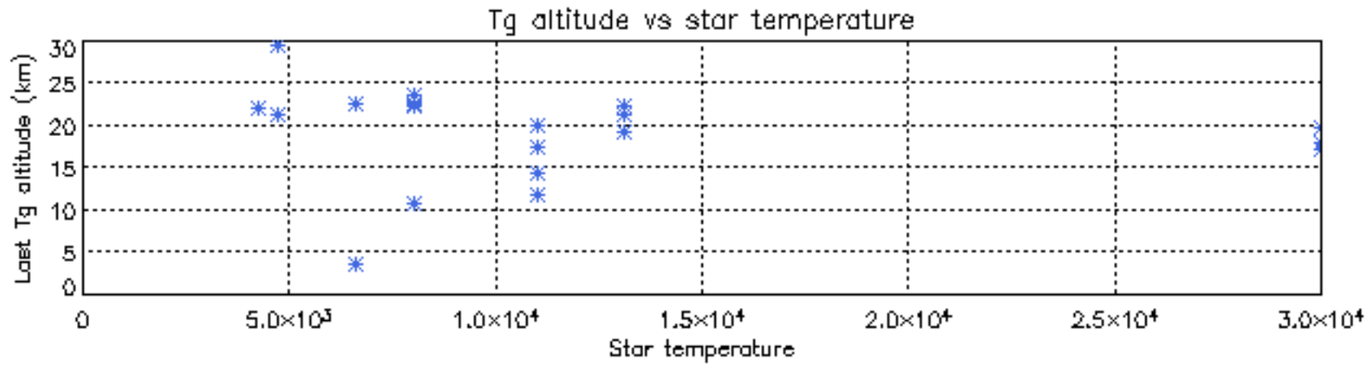




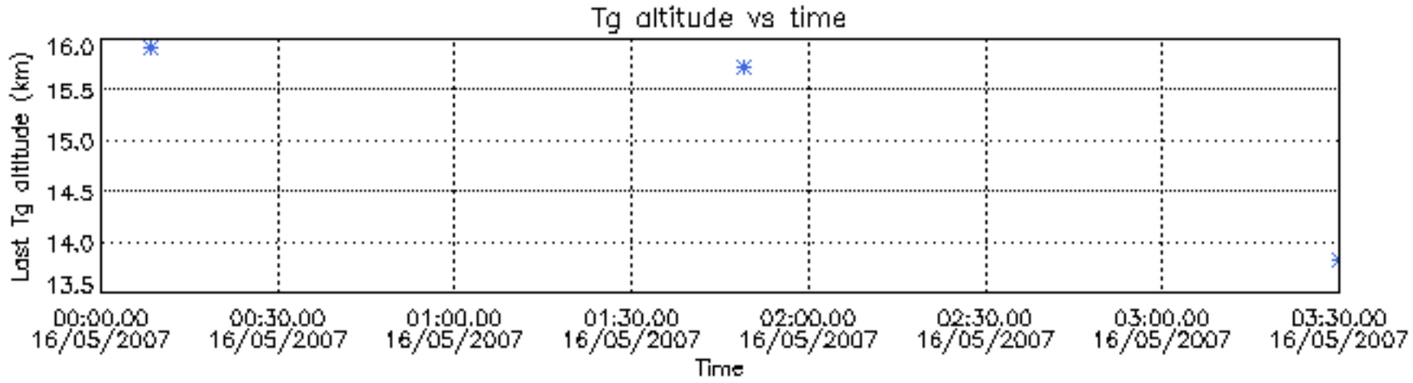
Tangent altitude at which the star is lost

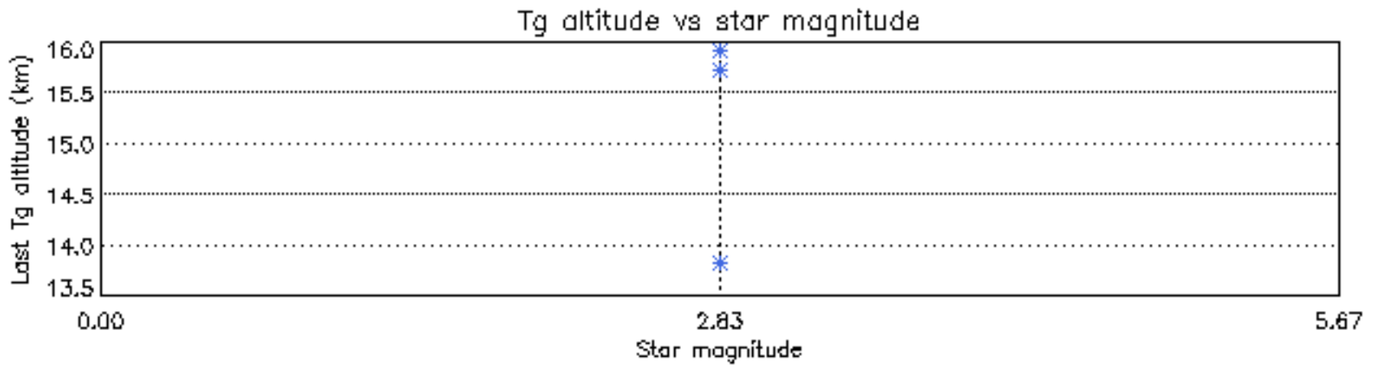


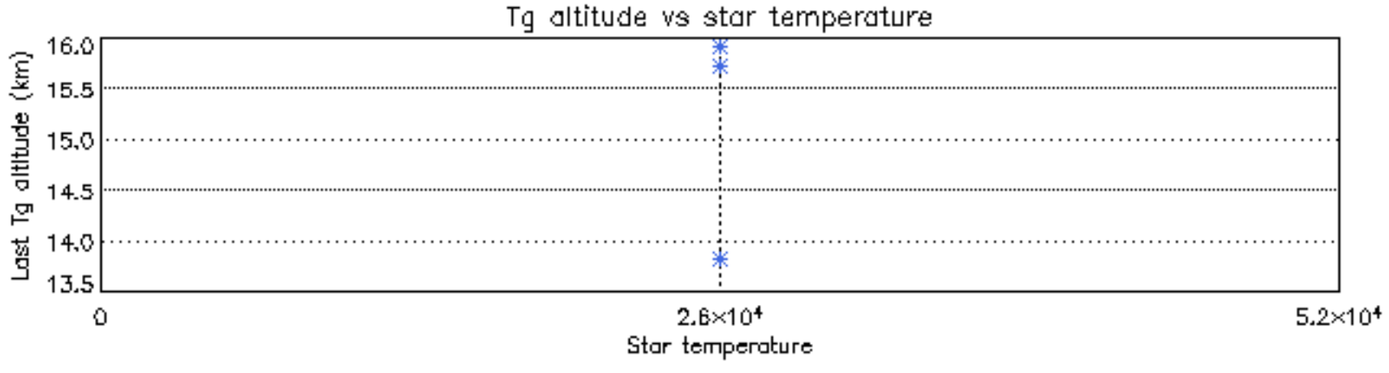


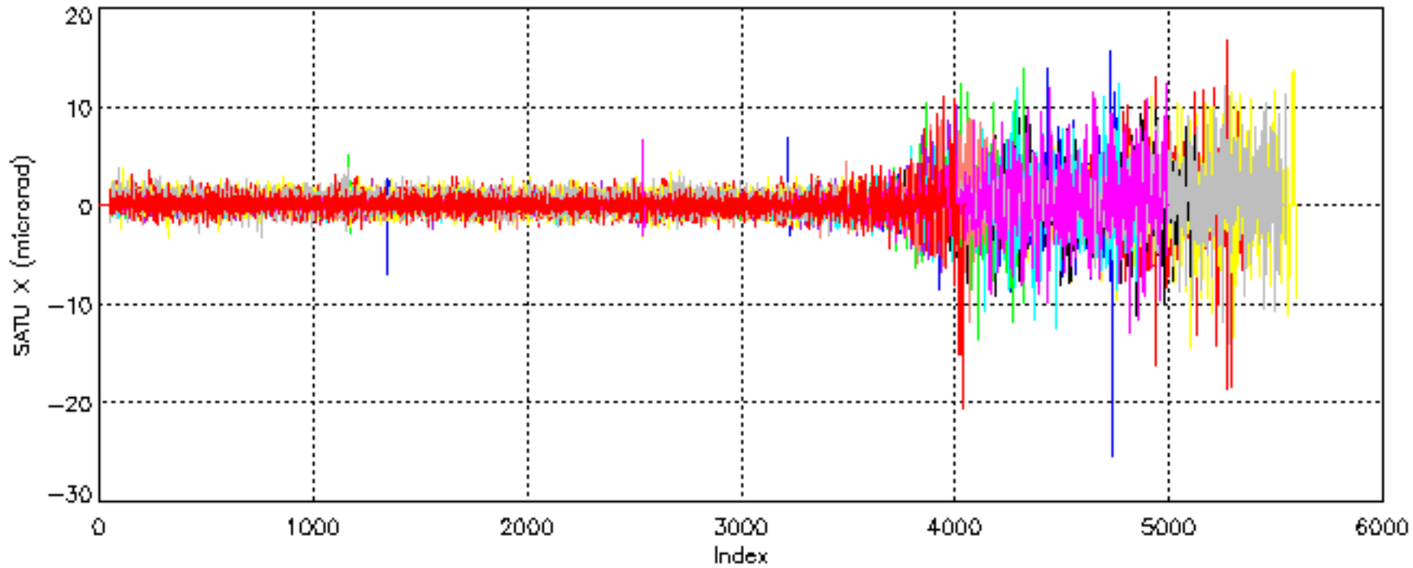


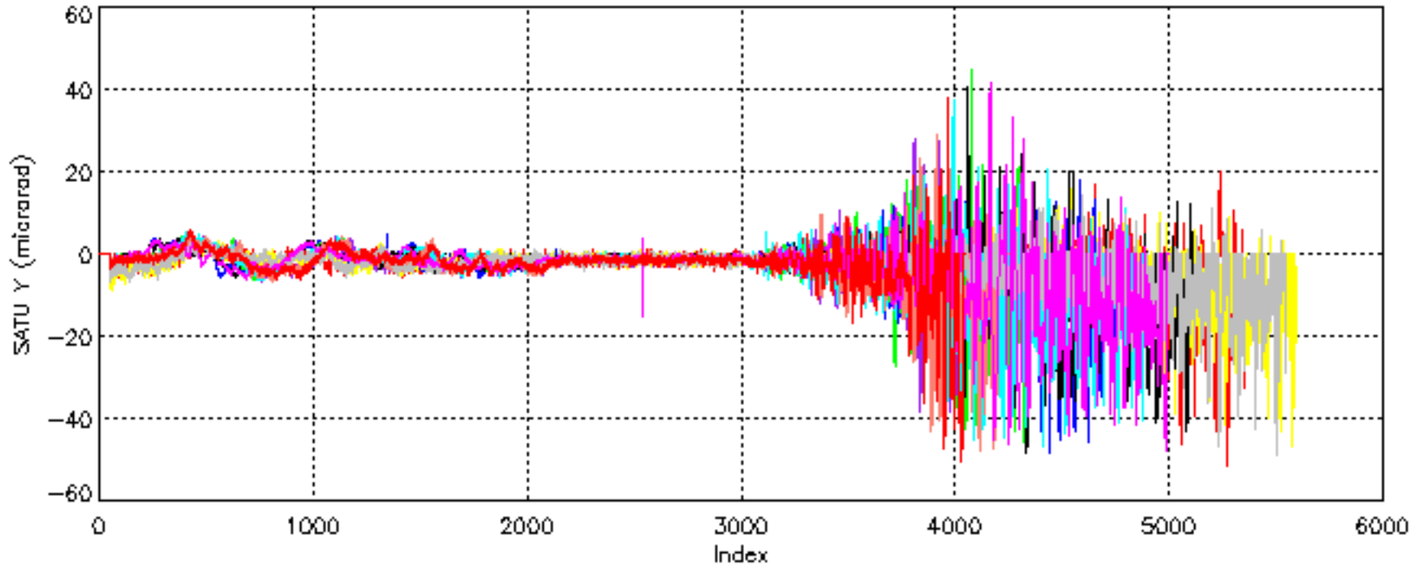
Tangent altitude at which the star is lost

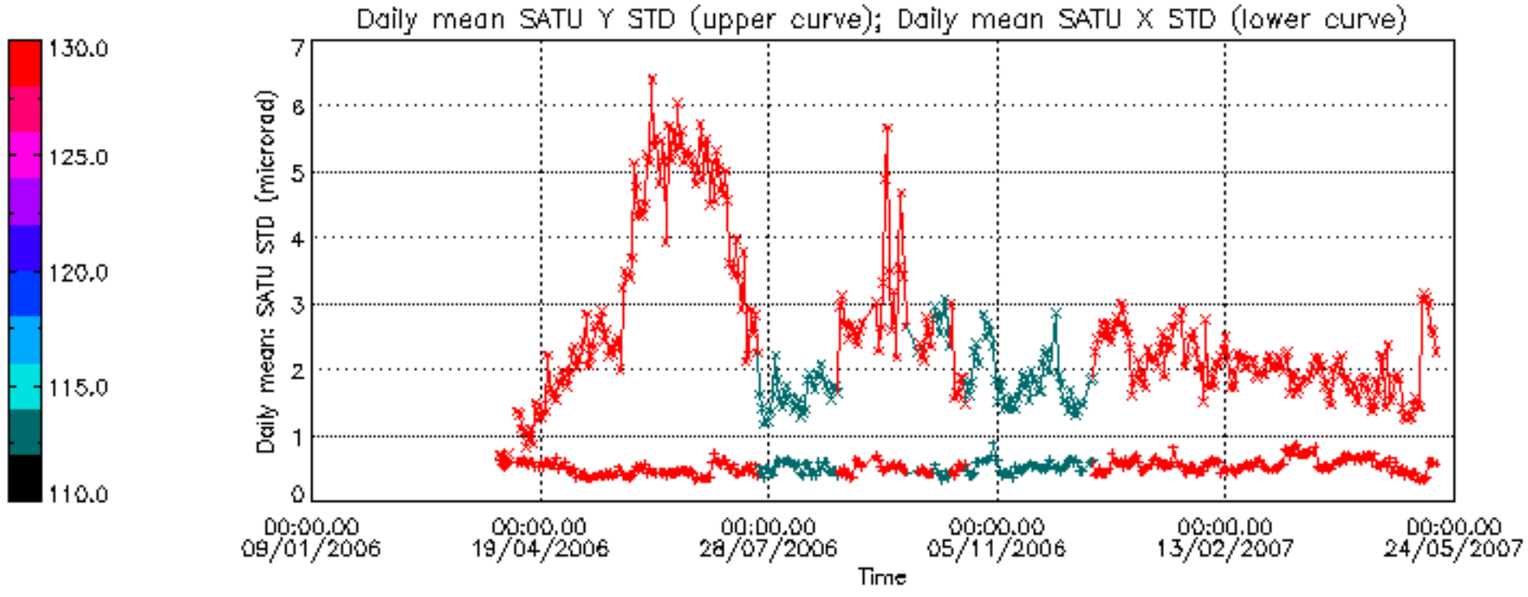







20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
SATU Y (microrad)
0
1000
2000
3000
4000
5000
6000
Index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   7; 3084.8; 17-MAY-2007 14:13:37; Bright;  40.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  80;   0;27247
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  11; 1381.5; 24-MAY-2007 01:40:56; Dark  ;  60.0;   16; 21Alp Sco  ; 1.02;  3000;occ; 120;   0;27340
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  13; 1734.6; 24-MAY-2007 01:46:49; Bright;  37.0;  104; 27Bet Lib  ; 2.61; 13100;occ;  74;   0;27340
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   9; 3170.7; 25-MAY-2007 16:44:32; Bright; 34.0;   60; 7Bet UMi ; 2.08; 3950;occ; 68;   0;27363
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  10; 4007.1; 26-MAY-2007 11:25:04; Bright; 42.0;   68; 18Alp Cas ; 2.22; 4500;occ; 84;   0;27374
  11; 4385.5; 26-MAY-2007 11:31:22; Bright; 38.0;   53; 43Bet And ; 2.05; 3300;occ; 76;   0;27374
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  22; 7142.1; 26-MAY-2007 13:57:55; Dark ; 51.0;   25; 35Lam Sco ; 1.62; 28000;occ; 102;   0;27375
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   5; 2015.3; 31-MAY-2007 14:56:11; Bright;  37.0;  102; 24Alp Ser  ; 2.60;  4250;occ;  74;   0;27448
   6; 2370.8; 31-MAY-2007 15:02:06; Bright;  36.5;   67;  5Alp CrB  ; 2.22; 11000;occ;  73;   0;27448
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   9; 3447.0; 31-MAY-2007 15:20:03; Bright;  35.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  70;   0;27448
  10; 3930.5; 31-MAY-2007 15:28:06; Bright;  37.5;   76; 27Gam Cas  ; 2.30; 30000;occ;  75;   0;27448
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  16; 6215.1; 31-MAY-2007 16:06:11; Dark  ;  47.0;   31;   Alp Gru  ; 1.73; 15200;occ;  94;   0;27448
  17; 6516.5; 31-MAY-2007 16:11:12; Dark  ;  43.0;   45;   Alp Pav  ; 1.94; 26000;occ;  86;   0;27448
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   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
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   5; 1542.6; 31-MAY-2007 18:09:30; Bright;  37.5;   97;  8Bet1Sco  ; 2.56; 30000;occ;  75;   0;27450
   6; 1702.4; 31-MAY-2007 18:12:10; Bright;  41.0;   98; 13Zet Oph  ; 2.57; 30000;occ;  82;   0;27450
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 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
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