GOMOS Daily Report 21-DEC-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.

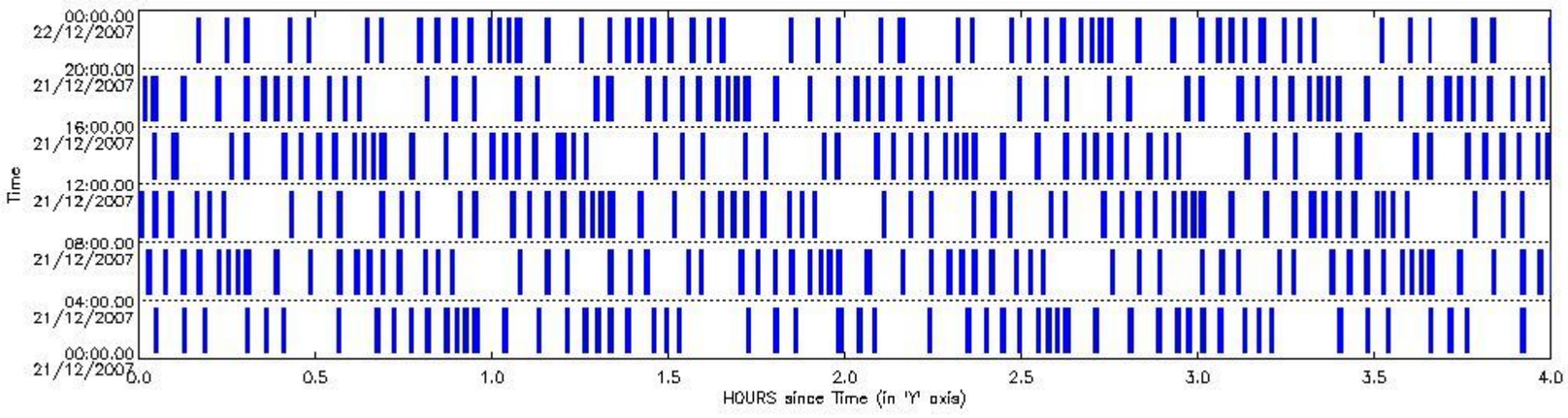
Item	Value
Time of report generation	24DEC2007 06:16:01
Data source version	GOMOS/5.00
Start time of products	QDS_TODAY(/START)-3D (21DEC2007 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (22DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	69
Nb of prods with errors	0

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)

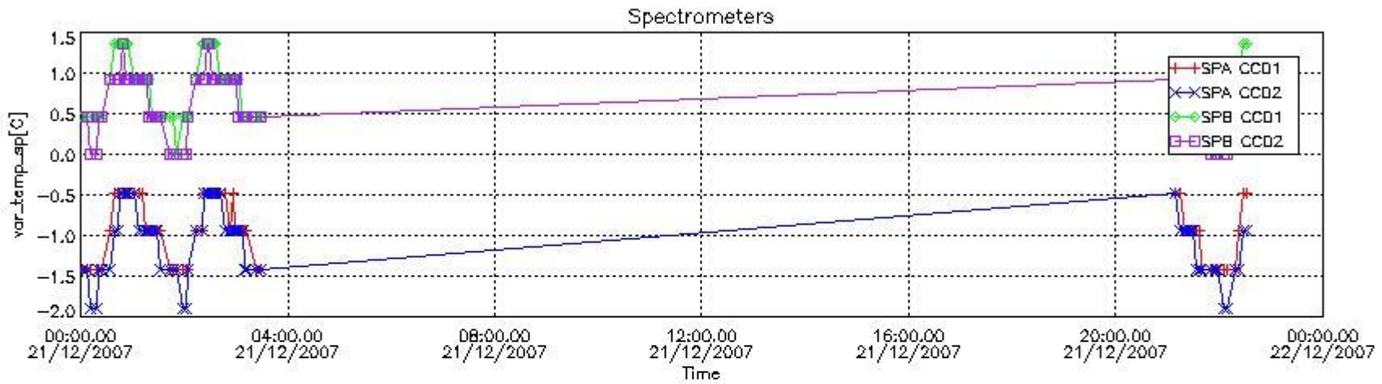
No missing products.

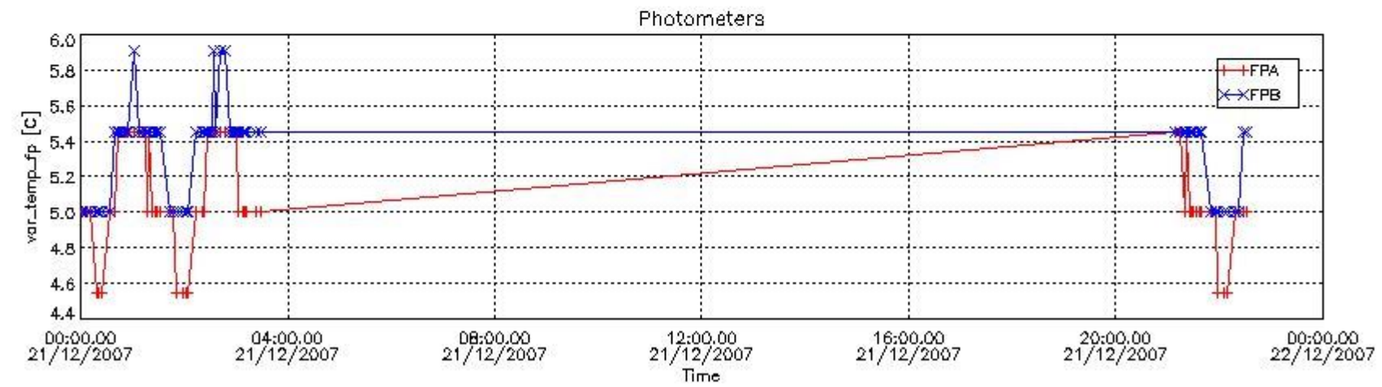
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20071221_000239_000000342064_00245_30359_6162.N1	21-DEC-2007 00:02:39	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	30359	No
2	GOM_TRA_1PNPDE20071221_000719_000000372064_00245_30359_6163.N1	21-DEC-2007 00:07:19	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	30359	No
3	GOM_TRA_1PNPDE20071221_001044_000000342064_00245_30359_6164.N1	21-DEC-2007 00:10:44	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	30359	No
4	GOM_TRA_1PNPDE20071221_001800_000000362064_00245_30359_6165.N1	21-DEC-2007 00:18:00	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	30359	No
5	GOM_TRA_1PNPDE20071221_002119_000000372064_00245_30359_6166.N1	21-DEC-2007 00:21:19	Bright	36.500	83		2.3780	11000.	73	30359	No
6	GOM_TRA_1PNPDE20071221_002408_000000402064_00245_30359_6167.N1	21-DEC-2007 00:24:08	Bright	40.000	3	16Alp Boo	-0.050000	4250.0	80	30359	No
7	GOM_TRA_1PNPDE20071221_003331_000000372064_00245_30359_6168.N1	21-DEC-2007 00:33:31	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	30359	No
8	GOM_TRA_1PNPDE20071221_004003_000000462064_00245_30359_6149.N1	21-DEC-2007 00:40:03	Dark	46.000	54	5The Cen	2.0550	4500.0	92	30359	No
9	GOM_TRA_1PNPDE20071221_004301_000000372064_00245_30359_6150.N1	21-DEC-2007 00:43:01	Dark	37.000	95	Zet Cen	2.5450	26000.	74	30359	No
10	GOM_TRA_1PNPDE20071221_004555_000000422064_00245_30359_6151.N1	21-DEC-2007 00:45:55	Dark	41.500	64	Gam Cen	2.2000	10600.	83	30359	No
11	GOM_TRA_1PNPDE20071221_004842_000000412064_00246_30360_6152.N1	21-DEC-2007 00:48:42	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30360	No
12	GOM_TRA_1PNPDE20071221_005157_000000392064_00246_30360_6153.N1	21-DEC-2007 00:51:57	Dark	39.000	124	The Car	2.7640	30000.	78	30360	No

13	GOM_TRA_1PNPDE20071221_005340_000000392064_00246_30360_6154.N1	21-DEC-2007 00:53:40	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30360	No
14	GOM_TRA_1PNPDE20071221_005509_000000422064_00246_30360_6155.N1	21-DEC-2007 00:55:09	Dark	42.000	71	Iot Car	2.2460	7700.0	84	30360	No
15	GOM_TRA_1PNPDE20071221_010141_000000472064_00246_30360_6156.N1	21-DEC-2007 01:01:41	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	30360	No
16	GOM_TRA_1PNPDE20071221_010736_000000422064_00246_30360_6157.N1	21-DEC-2007 01:07:36	Straylight	41.500	108	Alp Col	2.6520	15200.	83	30360	No
17	GOM_TRA_1PNPDE20071221_011226_000000432064_00246_30360_6158.N1	21-DEC-2007 01:12:26	Straylight	42.500	101	11Alp Lep	2.5820	7000.0	85	30360	No
18	GOM_TRA_1PNPDE20071221_011526_000000502064_00246_30360_6159.N1	21-DEC-2007 01:15:26	Straylight	50.000	7	19Bet Ori	0.10000	14000.	100	30360	No
19	GOM_TRA_1PNPDE20071221_011733_000000462064_00246_30360_6160.N1	21-DEC-2007 01:17:33	Straylight	45.500	30	46Eps Ori	1.6940	30000.	91	30360	No
20	GOM_TRA_1PNPDE20071221_011950_000000472064_00246_30360_6161.N1	21-DEC-2007 01:19:50	Twi_and_stray	47.000	27	24Gam Ori	1.6360	26000.	94	30360	No
21	GOM_TRA_1PNPDE20071221_012241_000000502064_00246_30360_6162.N1	21-DEC-2007 01:22:41	Twi_and_stray	50.000	13	87Alp Tau	0.86700	3800.0	100	30360	No
22	GOM_TRA_1PNPDE20071221_012707_000000352064_00246_30360_6163.N1	21-DEC-2007 01:27:07	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30360	No
23	GOM_TRA_1PNPDE20071221_012922_000000352064_00246_30360_6164.N1	21-DEC-2007 01:29:22	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30360	No
24	GOM_TRA_1PNPDE20071221_013135_000000352064_00246_30360_6165.N1	21-DEC-2007 01:31:35	Bright	35.000	175	39Del Per	3.0100	19400.	70	30360	No
25	GOM_TRA_1PNPDE20071221_014314_000000342064_00246_30360_6166.N1	21-DEC-2007 01:43:14	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	30360	No
26	GOM_TRA_1PNPDE20071221_014755_000000372064_00246_30360_6167.N1	21-DEC-2007 01:47:55	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30360	No
27	GOM_TRA_1PNPDE20071221_015120_000000362064_00246_30360_6168.N1	21-DEC-2007 01:51:20	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	30360	No
28	GOM_TRA_1PNPDE20071221_015836_000000562064_00246_30360_6169.N1	21-DEC-2007 01:58:36	Bright	56.000	180	27Gam Boo	3.0400	8000.0	112	30360	No
29	GOM_TRA_1PNPDE20071221_020155_000000552064_00246_30360_6170.N1	21-DEC-2007 02:01:55	Bright	55.000	83		2.3780	11000.	110	30360	No
30	GOM_TRA_1PNPDE20071221_020444_000000392064_00246_30360_6171.N1	21-DEC-2007 02:04:44	Bright	39.000	3	16Alp Boo	-0.050000	4250.0	78	30360	No
31	GOM_TRA_1PNPDE20071221_021407_000000372064_00246_30360_6875.N1	21-DEC-2007 02:14:07	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	30360	No
32	GOM_TRA_1PNPDE20071221_022039_000000482064_00246_30360_6876.N1	21-DEC-2007 02:20:39	Dark	47.500	54	5The Cen	2.0550	4500.0	95	30360	No
33	GOM_TRA_1PNPDE20071221_022337_000000382064_00246_30360_6877.N1	21-DEC-2007 02:23:37	Dark	38.000	95	Zet Cen	2.5450	26000.	76	30360	No
34	GOM_TRA_1PNPDE20071221_022632_000000422064_00246_30360_6878.N1	21-DEC-2007 02:26:32	Dark	42.000	64	Gam Cen	2.2000	10600.	84	30360	No
35	GOM_TRA_1PNPDE20071221_022919_000000422064_00247_30361_6879.N1	21-DEC-2007 02:29:19	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	30361	No
36	GOM_TRA_1PNPDE20071221_023233_000000382064_00247_30361_6880.N1	21-DEC-2007 02:32:33	Dark	38.000	124	The Car	2.7640	30000.	76	30361	No
37	GOM_TRA_1PNPDE20071221_023417_000000392064_00247_30361_6881.N1	21-DEC-2007 02:34:17	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30361	No
38	GOM_TRA_1PNPDE20071221_023545_000000412064_00247_30361_6882.N1	21-DEC-2007 02:35:45	Dark	40.500	71	Iot Car	2.2460	7700.0	81	30361	No
39	GOM_TRA_1PNPDE20071221_024217_000000512064_00247_30361_6883.N1	21-DEC-2007 02:42:17	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	30361	No
40	GOM_TRA_1PNPDE20071221_024812_000000402064_00247_30361_6884.N1	21-DEC-2007 02:48:12	Straylight	40.000	108	Alp Col	2.6520	15200.	80	30361	No
41	GOM_TRA_1PNPDE20071221_025303_000000452064_00247_30361_6885.N1	21-DEC-2007 02:53:03	Straylight	44.500	101	11Alp Lep	2.5820	7000.0	89	30361	No
42	GOM_TRA_1PNPDE20071221_025602_000000532064_00247_30361_6886.N1	21-DEC-2007 02:56:02	Straylight	53.000	7	19Bet Ori	0.10000	14000.	106	30361	No
43	GOM_TRA_1PNPDE20071221_025808_000000462064_00247_30361_6887.N1	21-DEC-2007 02:58:08	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	30361	No
44	GOM_TRA_1PNPDE20071221_030026_000000462064_00247_30361_6888.N1	21-DEC-2007 03:00:26	Twi_and_stray	46.000	27	24Gam Ori	1.6360	26000.	92	30361	No
45	GOM_TRA_1PNPDE20071221_030317_000000482064_00247_30361_6889.N1	21-DEC-2007 03:03:17	Twi_and_stray	47.500	13	87Alp Tau	0.86700	3800.0	95	30361	No
46	GOM_TRA_1PNPDE20071221_030743_000000362064_00247_30361_6890.N1	21-DEC-2007 03:07:43	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30361	No
47	GOM_TRA_1PNPDE20071221_030958_000000342064_00247_30361_6891.N1	21-DEC-2007 03:09:58	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30361	No
48	GOM_TRA_1PNPDE20071221_031211_000000342064_00247_30361_6892.N1	21-DEC-2007 03:12:11	Bright	34.000	175	39Del Per	3.0100	19400.	68	30361	No
49	GOM_TRA_1PNPDE20071221_032350_000000372064_00247_30361_6893.N1	21-DEC-2007 03:23:50	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	30361	No
50	GOM_TRA_1PNPDE20071221_032831_000000362064_00247_30361_6881.N1	21-DEC-2007 03:28:31	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	30361	No
51	GOM_TRA_1PNPDE20071221_210856_000000452064_00258_30372_5641.N1	21-DEC-2007 21:08:56	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30372	No
52	GOM_TRA_1PNPDE20071221_211450_000000402064_00258_30372_5642.N1	21-DEC-2007 21:14:50	Straylight	39.500	108	Alp Col	2.6520	15200.	79	30372	No
53	GOM_TRA_1PNPDE20071221_211940_000000422064_00258_30372_5643.N1	21-DEC-2007 21:19:40	Straylight	41.500	101	11Alp Lep	2.5820	7000.0	83	30372	No
54	GOM_TRA_1PNPDE20071221_212238_000000472064_00258_30372_5644.N1	21-DEC-2007 21:22:38	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	30372	No
55	GOM_TRA_1PNPDE20071221_212444_000000472064_00258_30372_5645.N1	21-DEC-2007 21:24:44	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	30372	No
56	GOM_TRA_1PNPDE20071221_212701_000000442064_00258_30372_5646.N1	21-DEC-2007 21:27:01	Twi_and_stray	44.000	27	24Gam Ori	1.6360	26000.	88	30372	No
57	GOM_TRA_1PNPDE20071221_212952_000000522064_00258_30372_5647.N1	21-DEC-2007 21:29:52	Twi_and_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	30372	No
58	GOM_TRA_1PNPDE20071221_213347_000000412064_00258_30372_5648.N1	21-DEC-2007 21:33:47	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	30372	No
59	GOM_TRA_1PNPDE20071221_213634_000000342064_00258_30372_5649.N1	21-DEC-2007 21:36:34	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30372	No
60	GOM_TRA_1PNPDE20071221_213848_000000522064_00258_30372_5650.N1	21-DEC-2007 21:38:48	Bright	52.000	175	39Del Per	3.0100	19400.	104	30372	No
61	GOM_TRA_1PNPDE20071221_215026_000000362064_00258_30372_5651.N1	21-DEC-2007 21:50:26	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30372	No
62	GOM_TRA_1PNPDE20071221_215506_000000362064_00258_30372_5652.N1	21-DEC-2007 21:55:06	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	30372	No
63	GOM_TRA_1PNPDE20071221_215833_000000362064_00258_30372_5653.N1	21-DEC-2007 21:58:33	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30372	No
64	GOM_TRA_1PNPDE20071221_220548_000000382064_00258_30372_5654.N1	21-DEC-2007 22:05:48	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	30372	No
65	GOM_TRA_1PNPDE20071221_220908_000000502064_00258_30372_5655.N1	21-DEC-2007 22:09:08	Bright	50.000	83		2.3780	11000.	100	30372	No
66	GOM_TRA_1PNPDE20071221_221902_000000332064_00258_30372_5656.N1	21-DEC-2007 22:19:02	Bright	33.000	104	27Bet Lib	2.6140	13100.	66	30372	No
67	GOM_TRA_1PNPDE20071221_222123_000000372064_00258_30372_5842.N1	21-DEC-2007 22:21:23	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	30372	No
68	GOM_TRA_1PNPDE20071221_222757_000000422064_00258_30372_5843.N1	21-DEC-2007 22:27:57	Dark	42.000	54	5The Cen	2.0550	4500.0	84	30372	No
69	GOM_TRA_1PNPDE20071221_223054_000000382064_00258_30372_5844.N1	21-DEC-2007 22:30:54	Dark	38.000	95	Zet Cen	2.5450	26000.	76	30372	No

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





4. Overview of dark signal processing per product

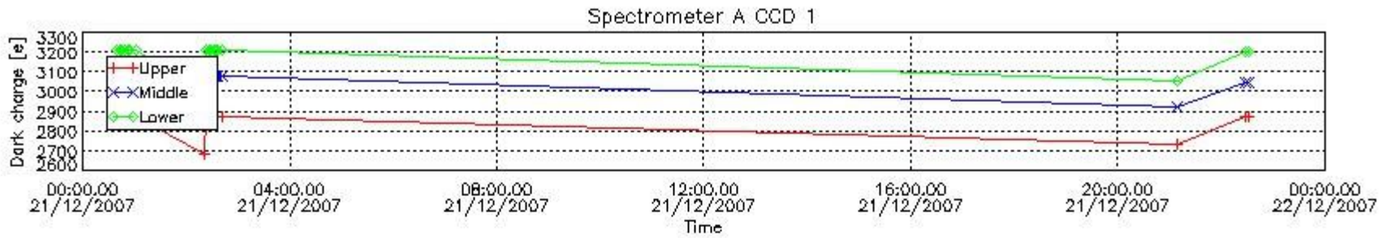
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

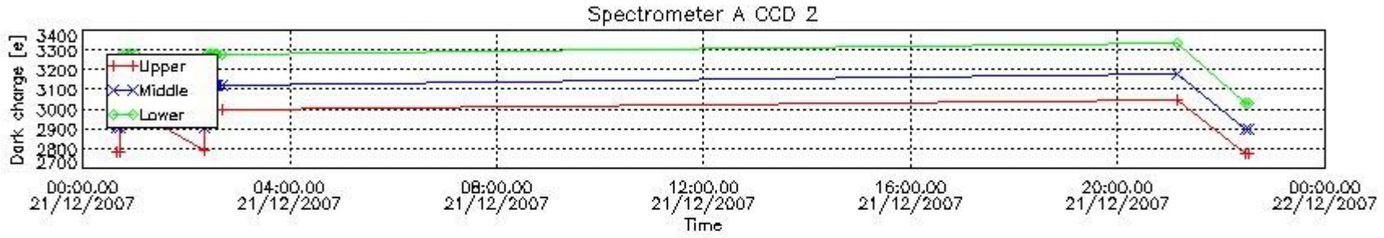
4.1 These products did not use the DSA observation for DC computation:

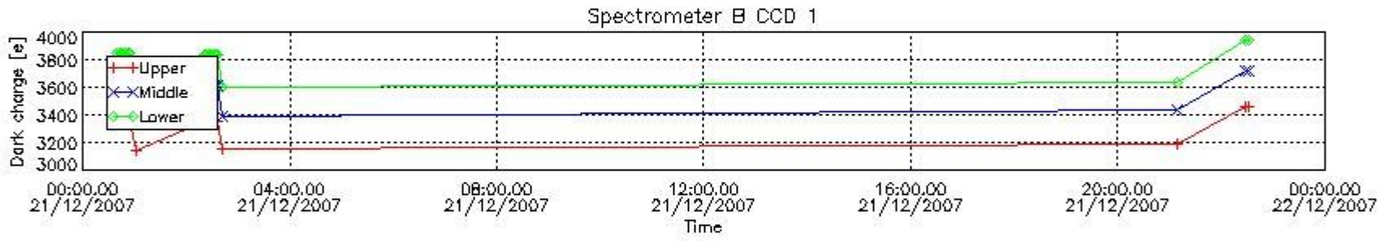
Product name	DC information
GOM_TRA_1PNPDE20071221_210856_000000452064_00258_30372_5641.N1	DC map used
GOM_TRA_1PNPDE20071221_211450_000000402064_00258_30372_5642.N1	DC map used
GOM_TRA_1PNPDE20071221_211940_000000422064_00258_30372_5643.N1	DC map used
GOM_TRA_1PNPDE20071221_212238_000000472064_00258_30372_5644.N1	DC map used
GOM_TRA_1PNPDE20071221_212444_000000472064_00258_30372_5645.N1	DC map used
GOM_TRA_1PNPDE20071221_212701_000000442064_00258_30372_5646.N1	DC map used
GOM_TRA_1PNPDE20071221_212952_000000522064_00258_30372_5647.N1	DC map used
GOM_TRA_1PNPDE20071221_213347_000000412064_00258_30372_5648.N1	DC map used
GOM_TRA_1PNPDE20071221_213634_000000342064_00258_30372_5649.N1	DC map used
GOM_TRA_1PNPDE20071221_213848_000000522064_00258_30372_5650.N1	DC map used
GOM_TRA_1PNPDE20071221_215026_000000362064_00258_30372_5651.N1	DC map used
GOM_TRA_1PNPDE20071221_215506_000000362064_00258_30372_5652.N1	DC map used

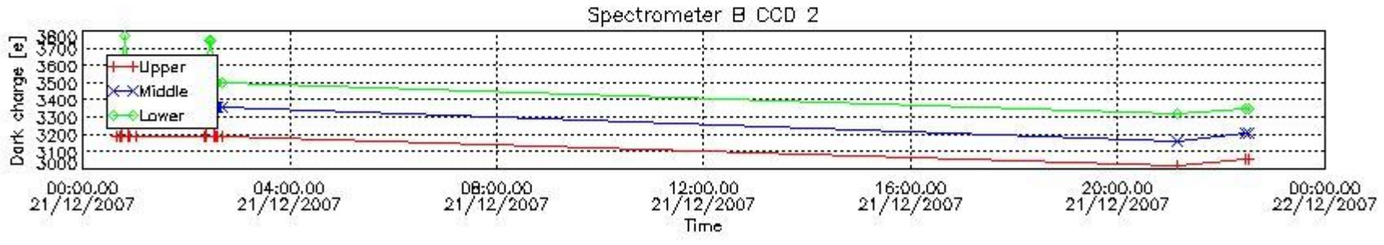
GOM_TRA_1PNPDE20071221_215833_000000362064_00258_30372_5653.N1	DC map used
GOM_TRA_1PNPDE20071221_220548_000000382064_00258_30372_5654.N1	DC map used
GOM_TRA_1PNPDE20071221_220908_000000502064_00258_30372_5655.N1	DC map used
GOM_TRA_1PNPDE20071221_221902_000000332064_00258_30372_5656.N1	DC map used

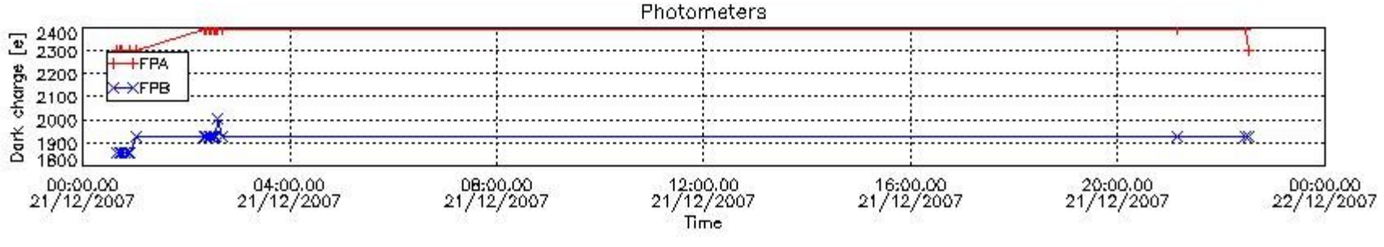
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











5. Demodulation flag and quality information monitoring

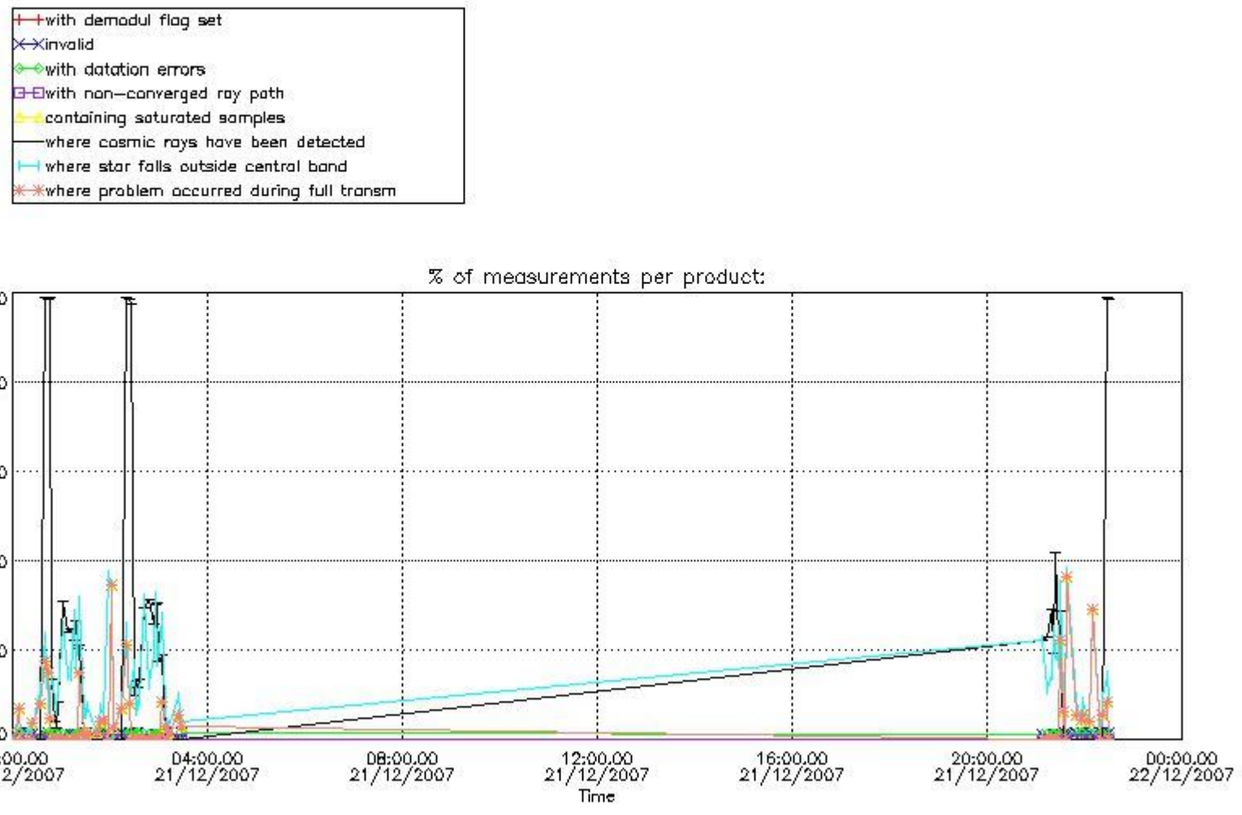
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

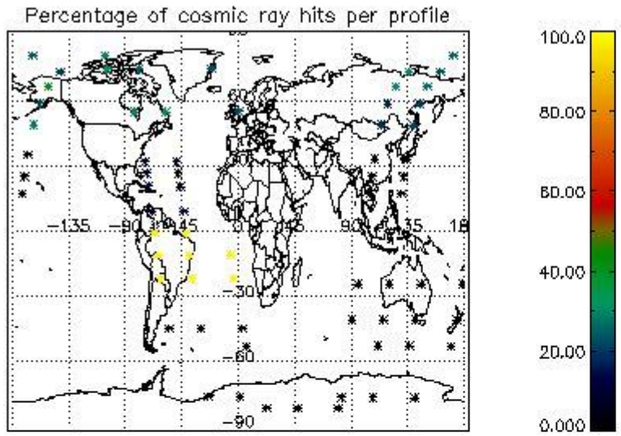
5.1 Percentage of products during reporting period with:

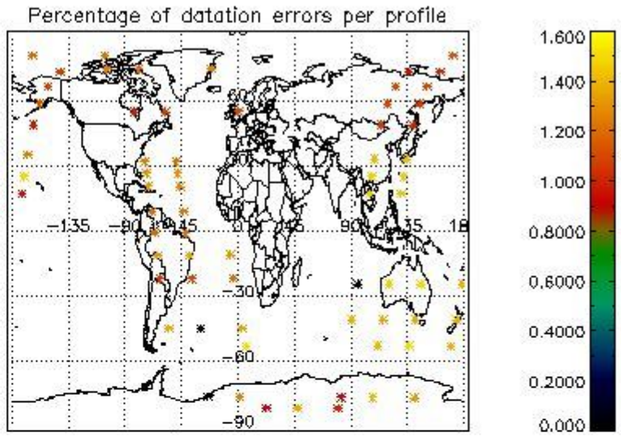
At least one measurement with demodulation flag set:	28.9855 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

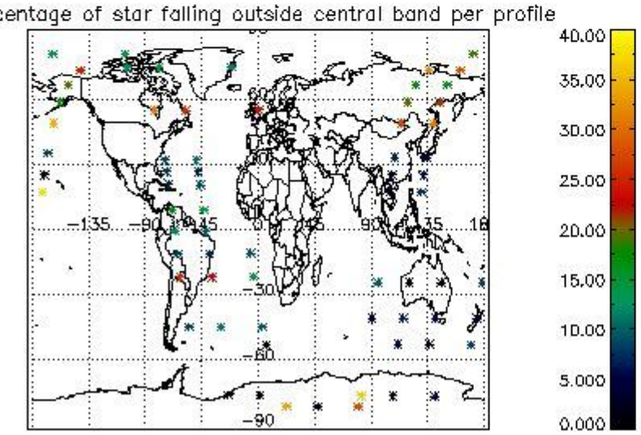
5.2 Plot quality information per product (time dependant)

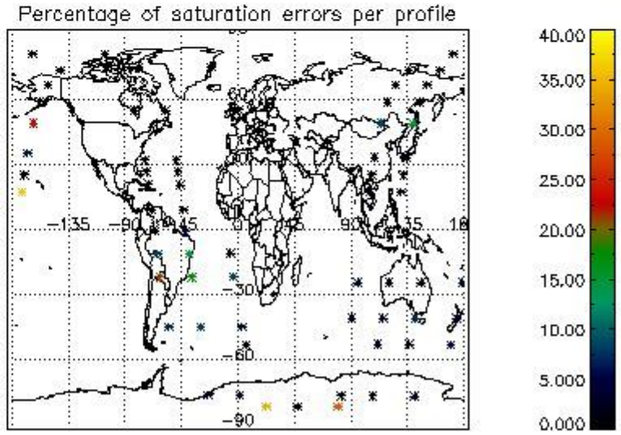


5.3 Plot quality information per product (world map)









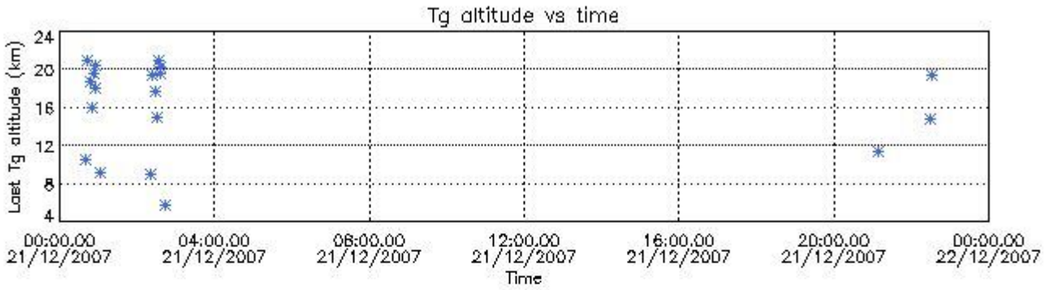
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

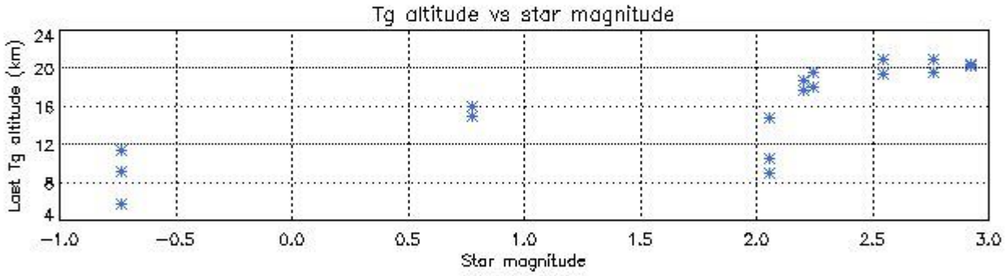
6.1 Statistics on tangent altitude lost:

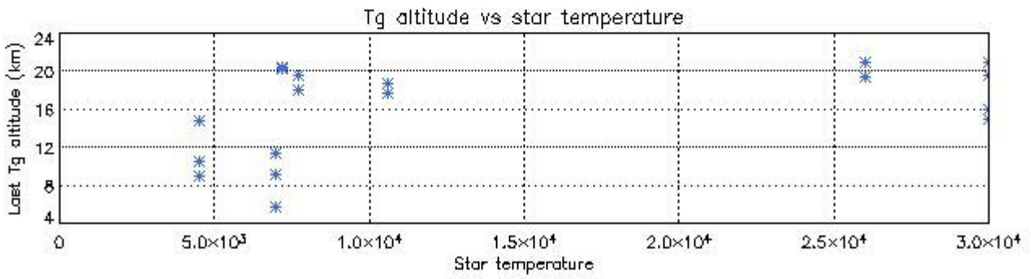
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.119	20.215	NaN
St. deviation:	4.7217	6.3007	NaN
Maximum:	20.887	27.030	NaN
Minimum:	5.7458	3.7412	NaN
Number of data:	19.000	32.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

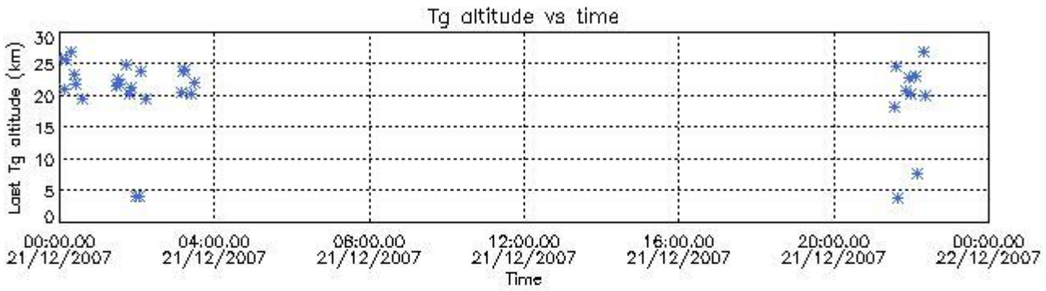


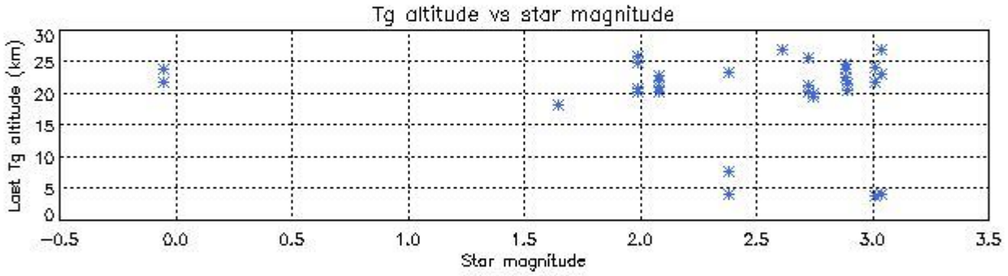


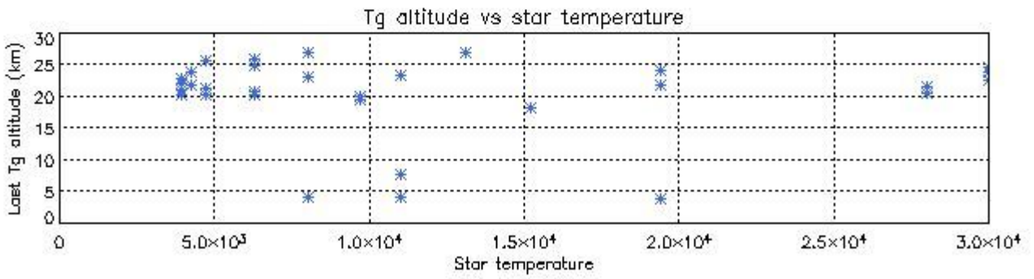


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





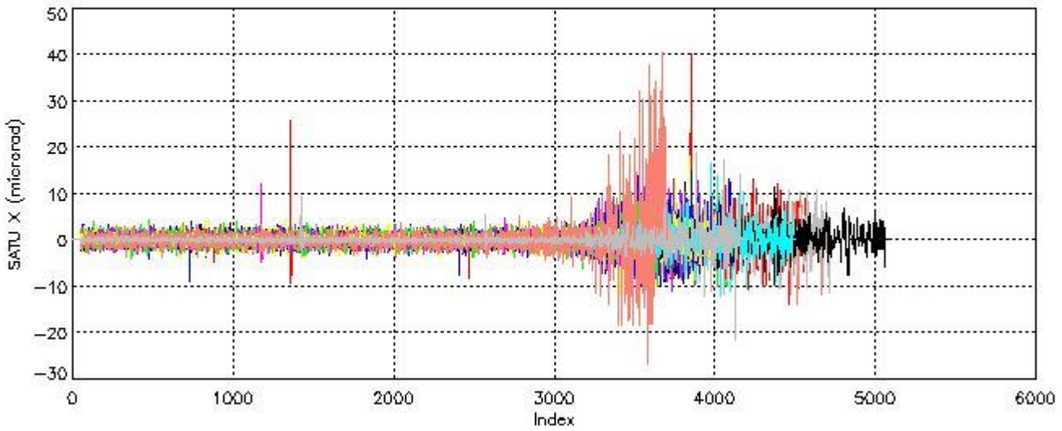


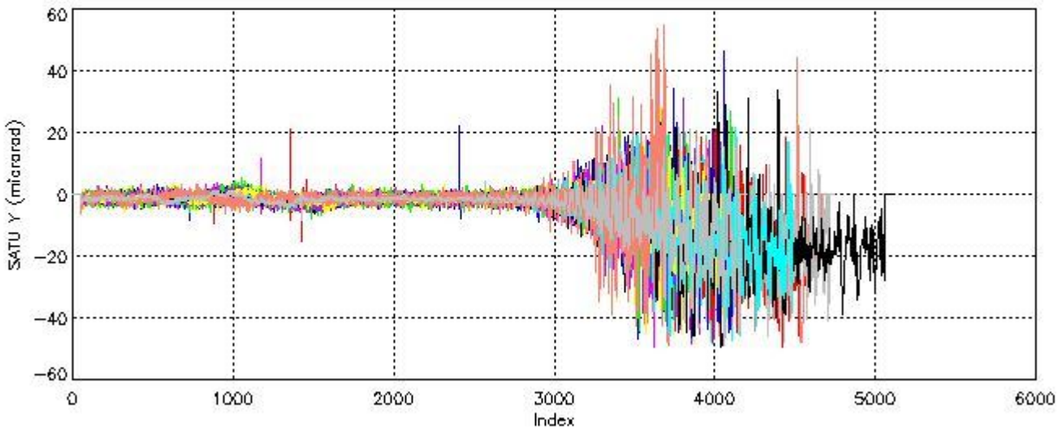
7. Star Acquisition and Tracking Unit (SATU)

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 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:	0.10144	-1.2918	0.048825	-1.1818
St. deviation:	0.61208	0.93631	0.90584	1.4055
Maximum:	4.4000	3.8000	5.9000	5.2000
Minimum:	-8.8000	-9.5000	-6.0000	-9.2000

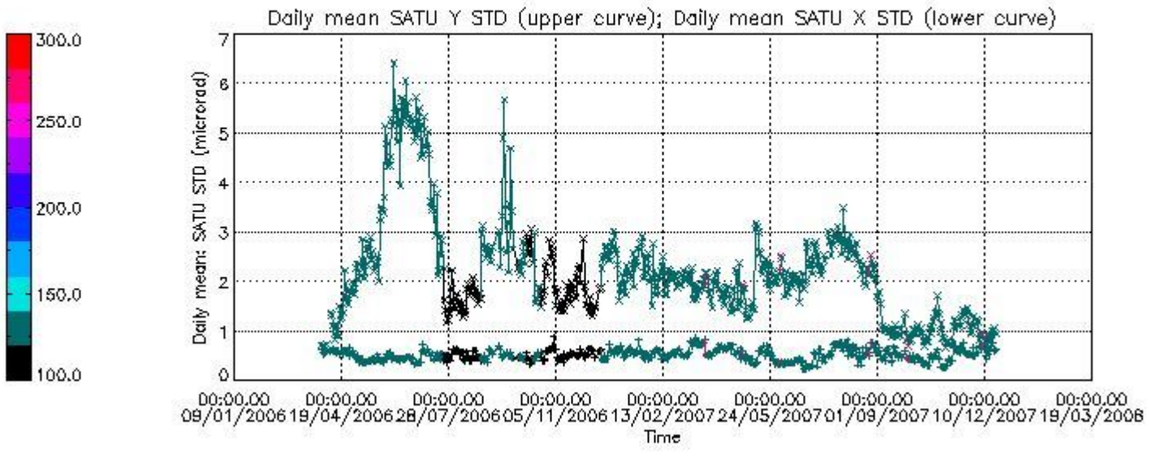
Number of data:	17450.	17450.	26750.	26750.

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.

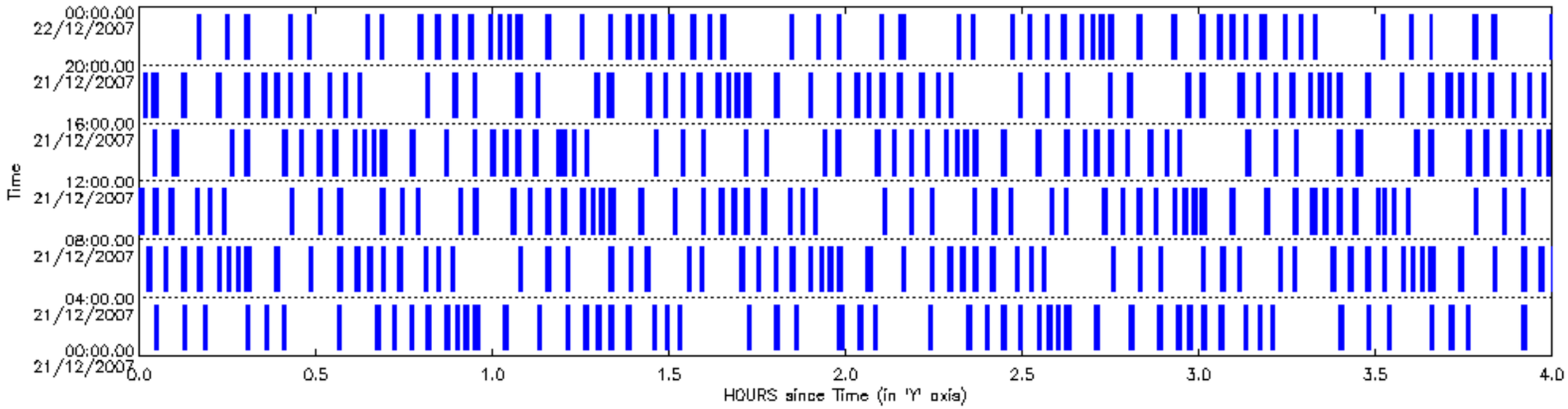
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

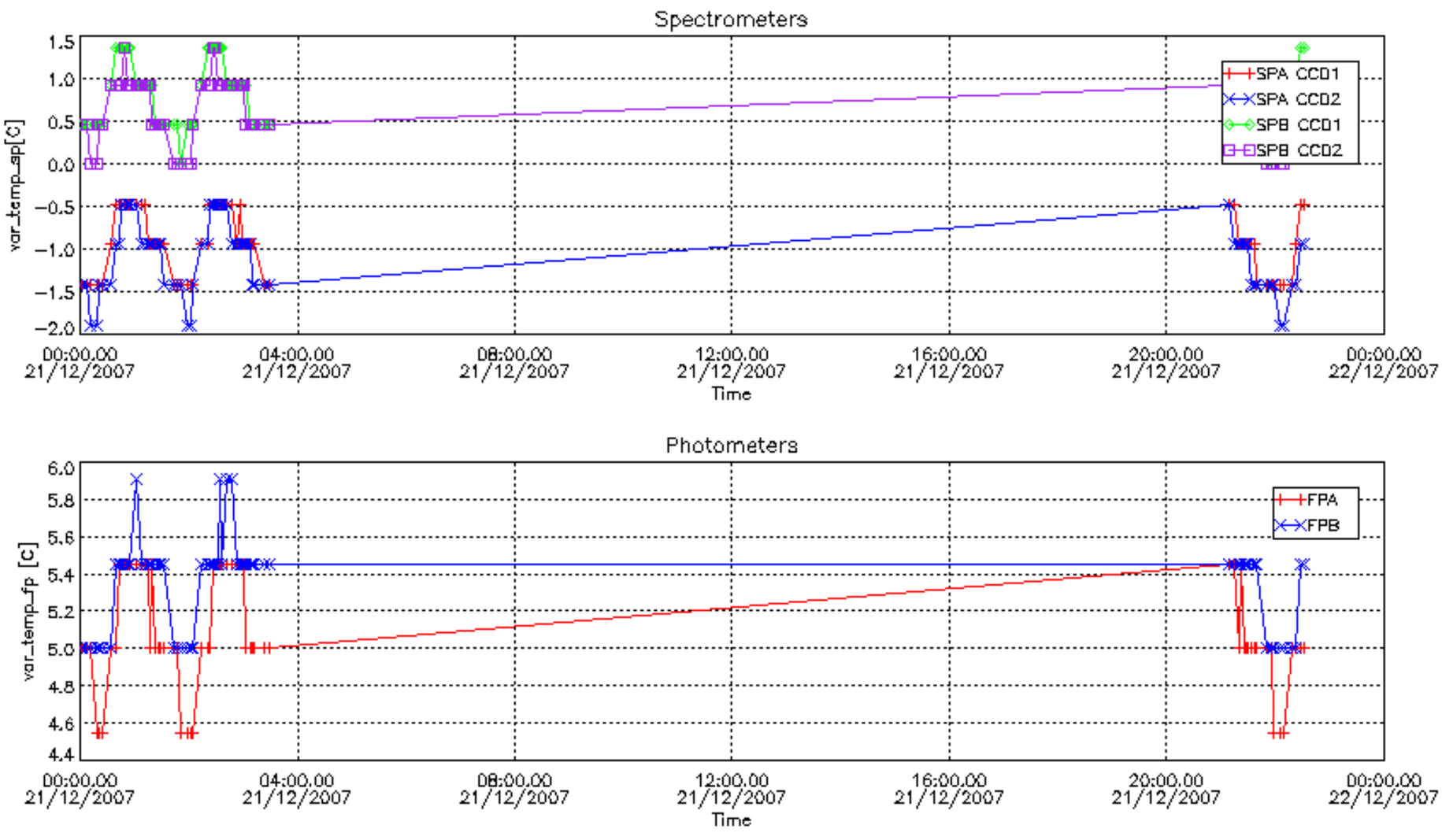


8. Auxiliary Data Files used for the production reported in section 2.4

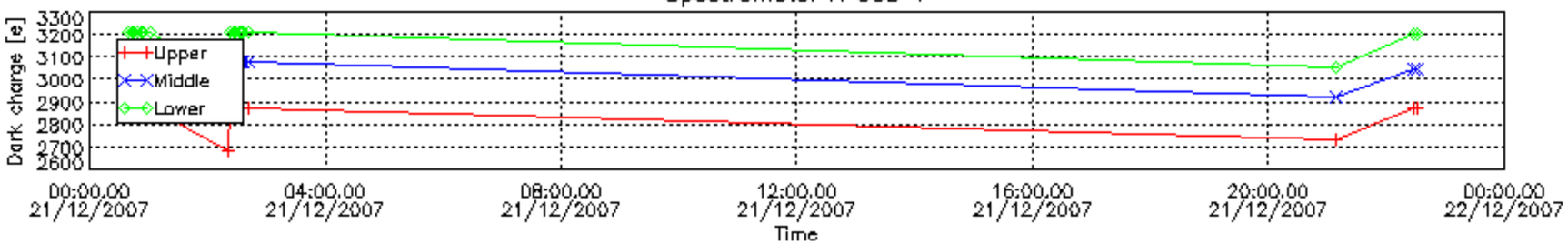
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-DEC-2007 00:02:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	21-DEC-2007 00:02:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-DEC-2007 00:02:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-DEC-2007 00:02:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-DEC-2007 00:02:39
ECMWF_FILE	AUX_ECF_AXNECM20071221_153320_20071220_210000_20071221_090000	1	21-DEC-2007 00:02:39
ECMWF_FILE	AUX_ECF_AXNECM20071221_152506_20071221_030000_20071221_150000	50	21-DEC-2007 03:28:31
ECMWF_FILE	AUX_ECF_AXNECM20071221_153321_20071221_210000_20071222_090000	51	21-DEC-2007 21:08:56
OPTIONAL_ECMWF_FILE	MISSING	1	21-DEC-2007 00:02:39
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20071222_010112_20071218_221000_20071221_005000	1	21-DEC-2007 00:02:39
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071221_003218_000054192064_00245_30359_4791.N1	8	21-DEC-2007 00:40:03
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071221_020756_000041442064_00246_30360_4792.N1	31	21-DEC-2007 02:14:07
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071221_032219_000060572064_00247_30361_4793.N1	50	21-DEC-2007 03:28:31
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20071221_210458_000041442064_00258_30372_4795.N1	51	21-DEC-2007 21:08:56

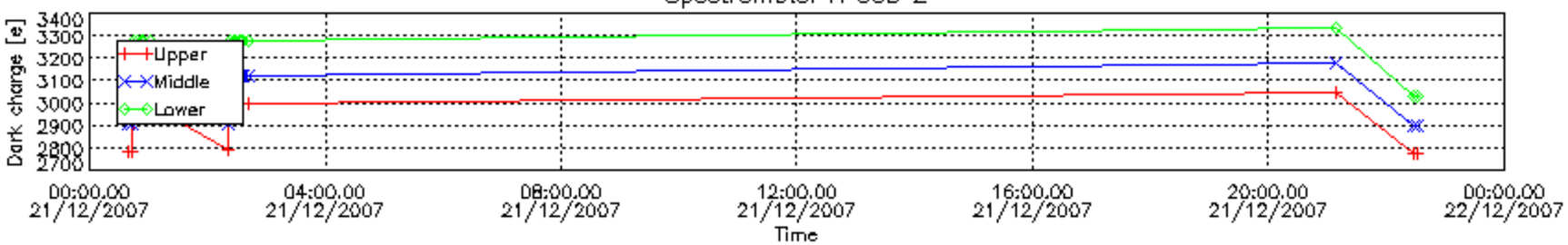

00:00.00
22/12/2007
20:00.00
21/12/2007
16:00.00
21/12/2007
12:00.00
21/12/2007
08:00.00
21/12/2007
04:00.00
21/12/2007
00:00.00
21/12/2007
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)


Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
21/12/2007
04:00.00
21/12/2007
08:00.00
21/12/2007
12:00.00
21/12/2007
16:00.00
21/12/2007
20:00.00
21/12/2007
00:00.00
22/12/2007
Time
Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
FPA
FPB
00:00.00
21/12/2007
04:00.00
21/12/2007
08:00.00
21/12/2007
12:00.00
21/12/2007
16:00.00
21/12/2007
20:00.00
21/12/2007
00:00.00
22/12/2007
Time

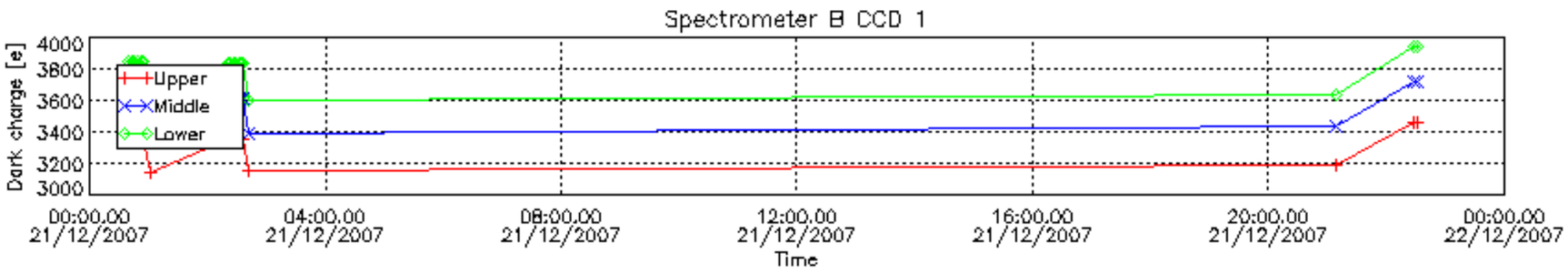
Spectrometer A CCD 1



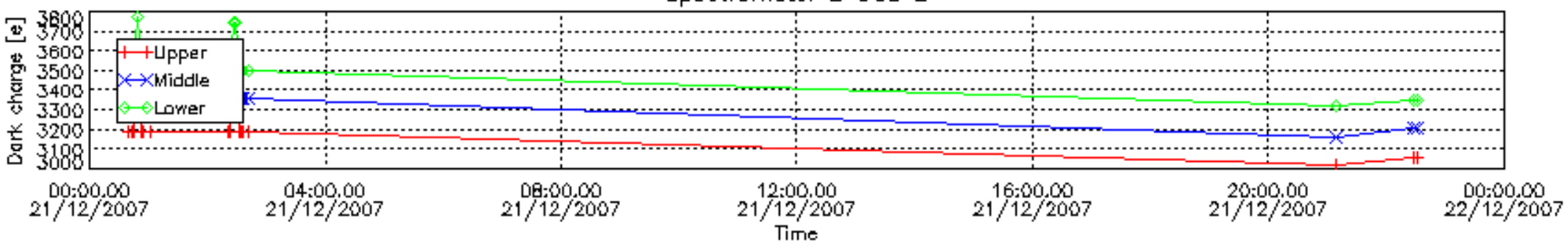
Spectrometer A CCD 2



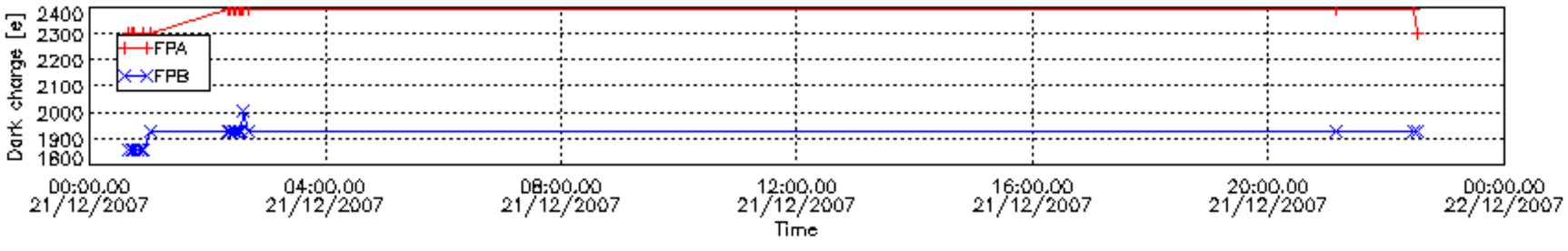
Spectrometer B CCD 1

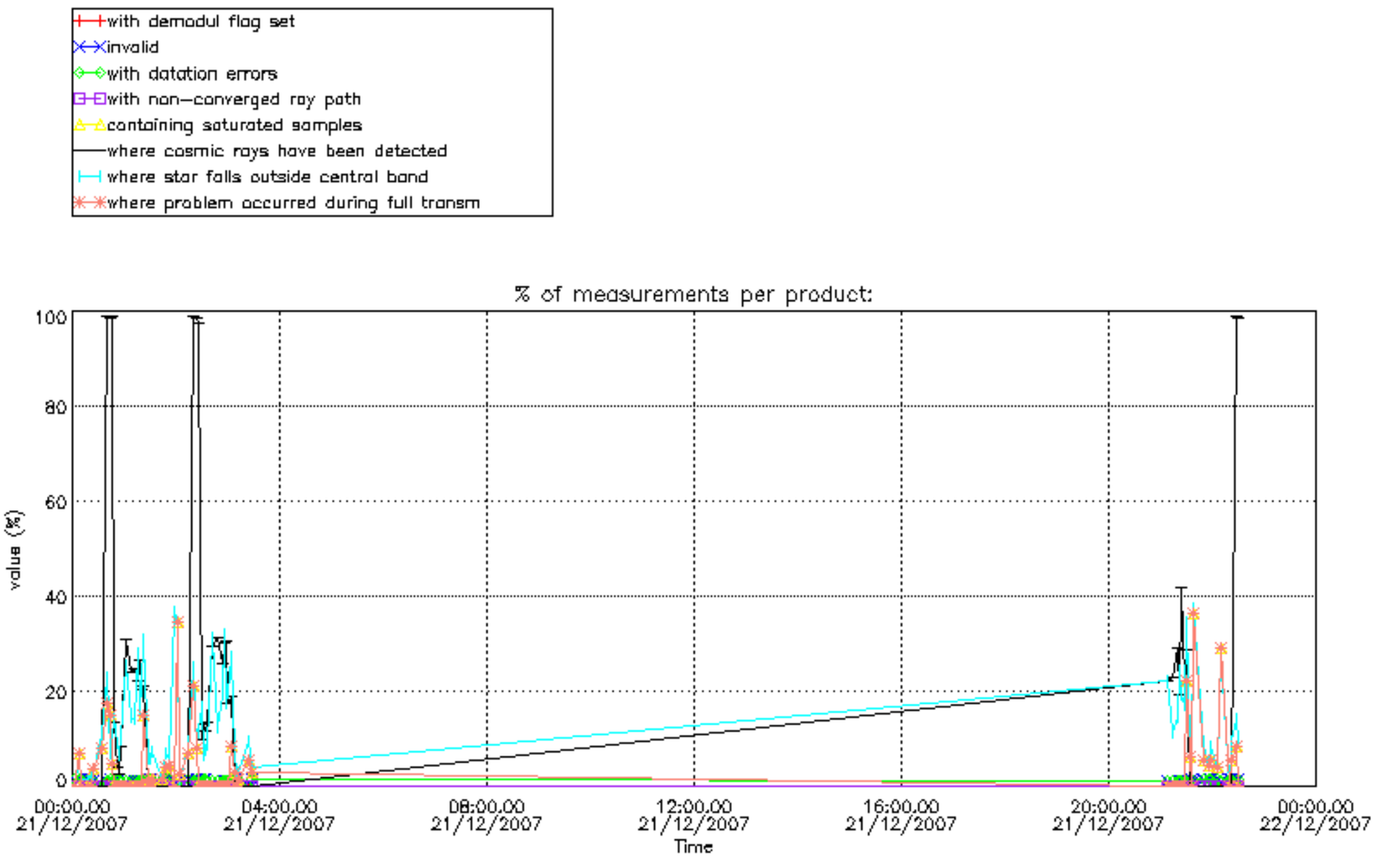


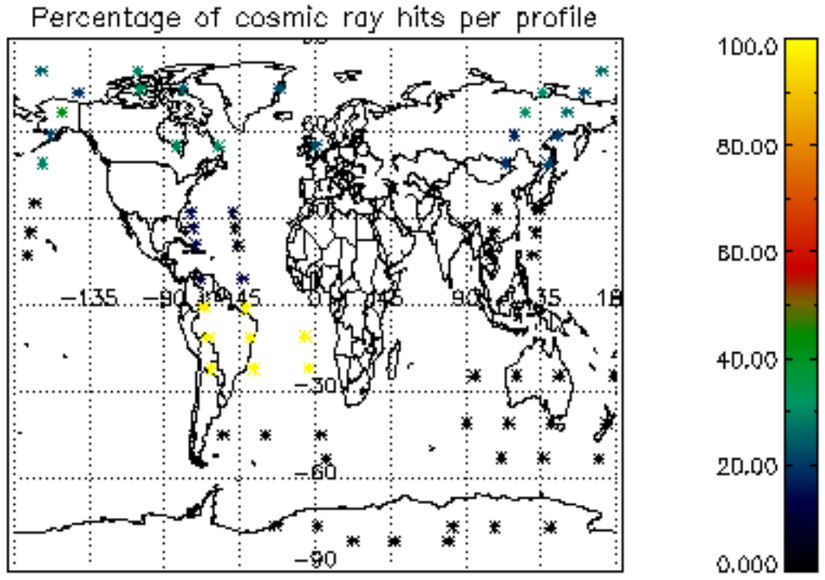
Spectrometer B CCD 2

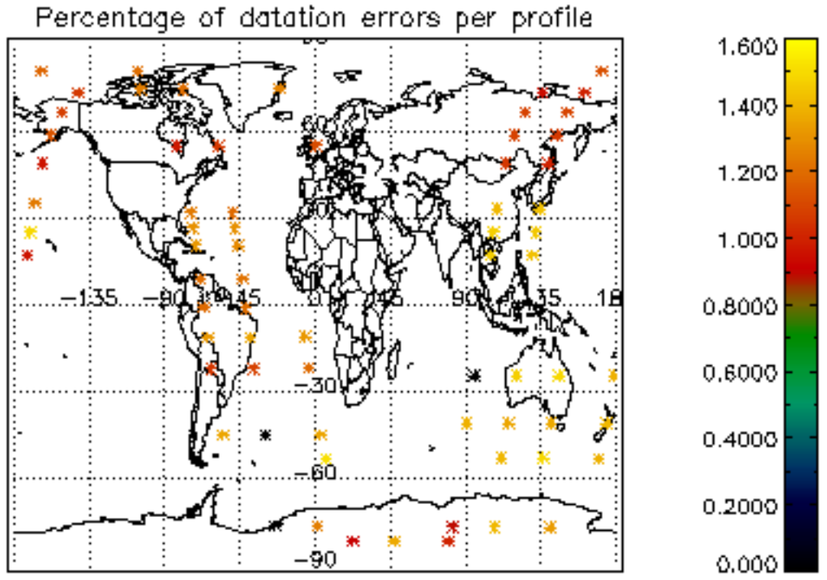


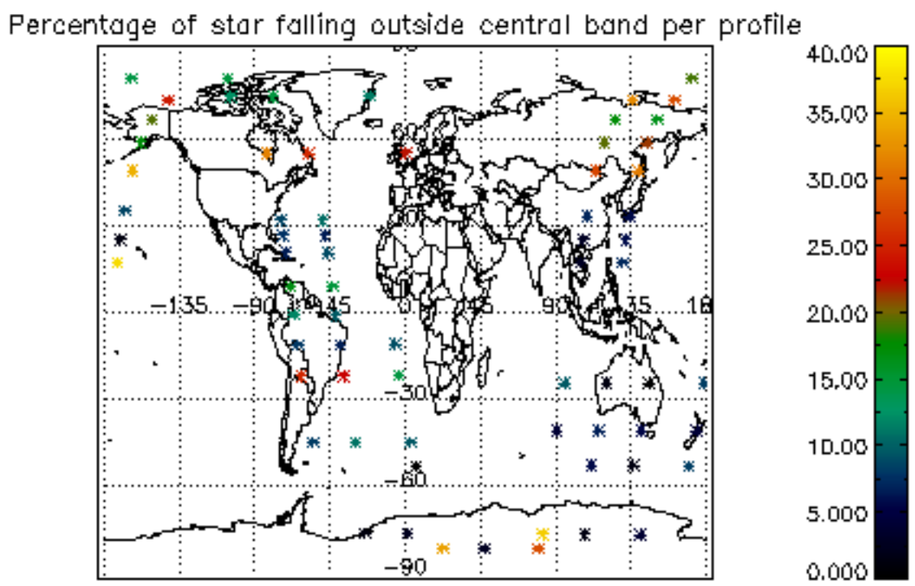
Photometers

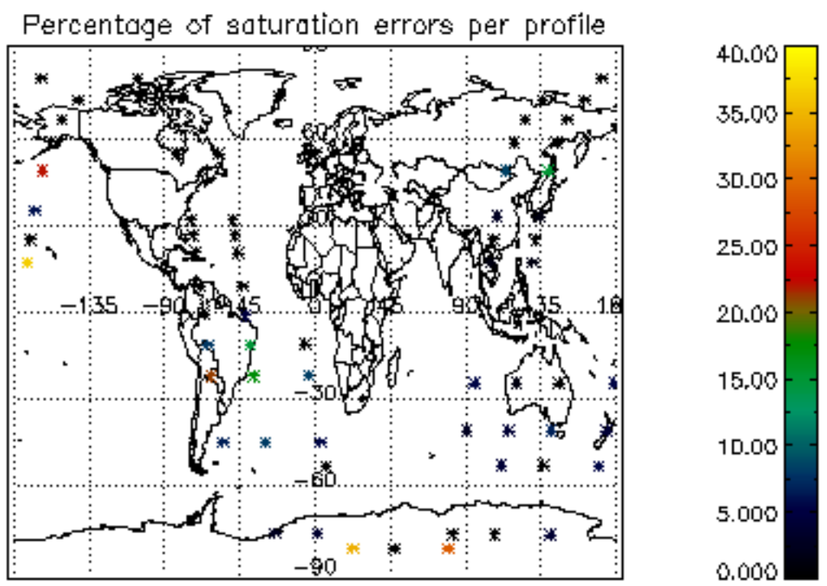



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00 21/12/2007
04:00.00 21/12/2007
08:00.00 21/12/2007
12:00.00 21/12/2007
16:00.00 21/12/2007
20:00.00 21/12/2007
00:00.00 22/12/2007
Time

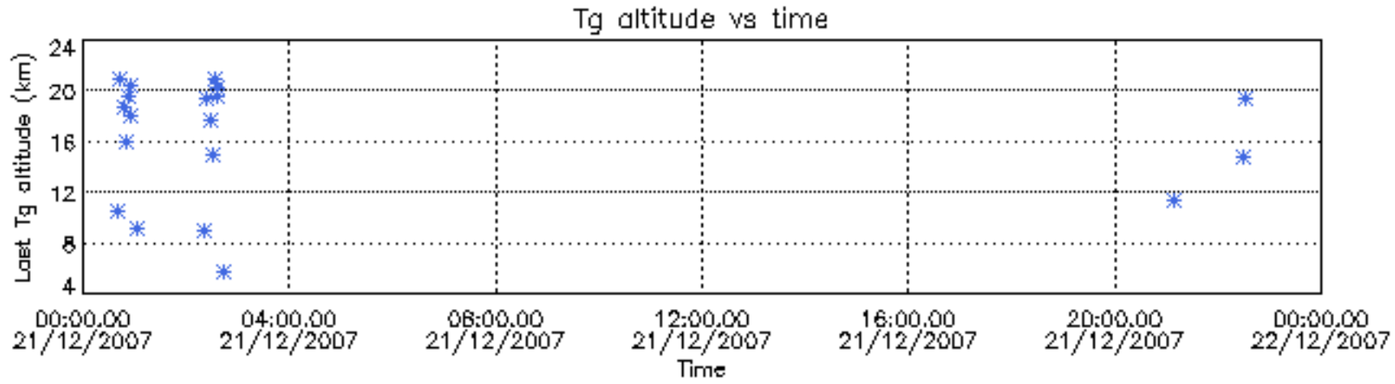

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

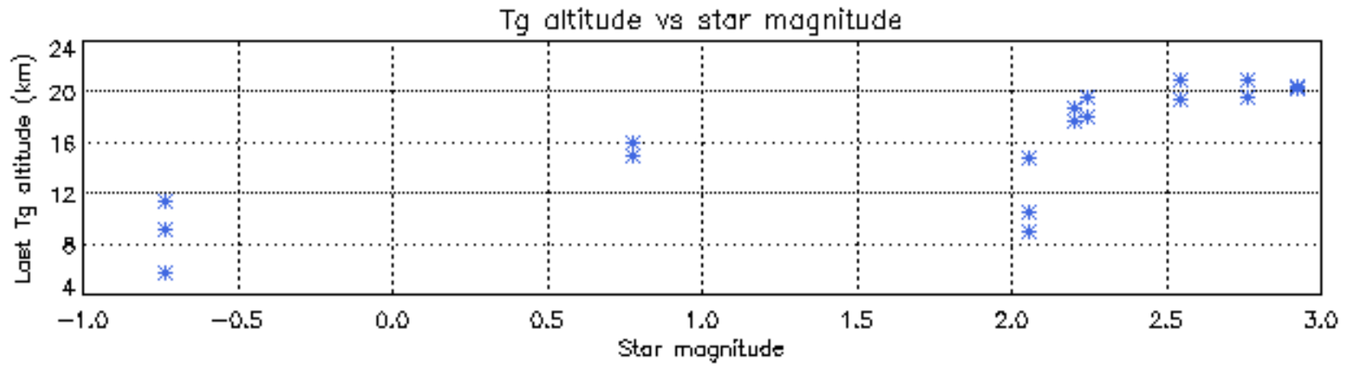

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

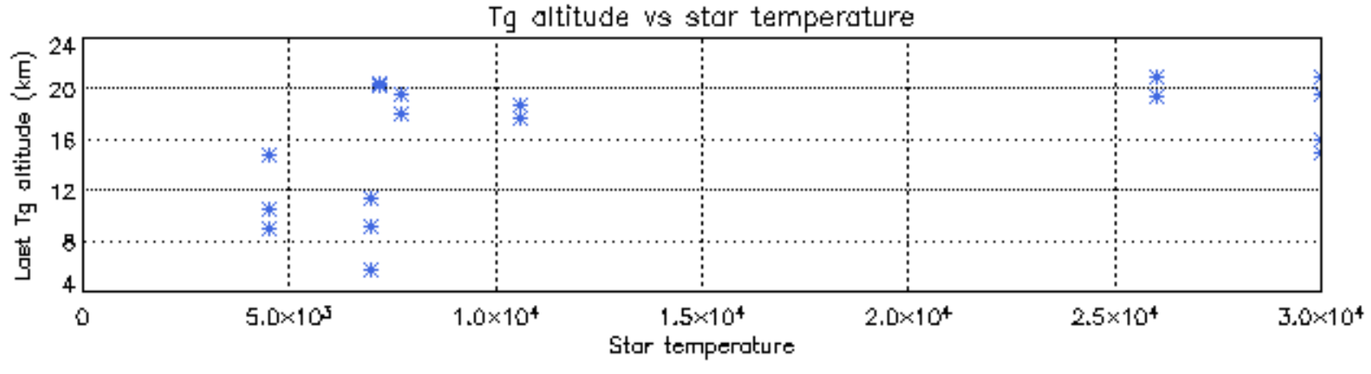

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


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

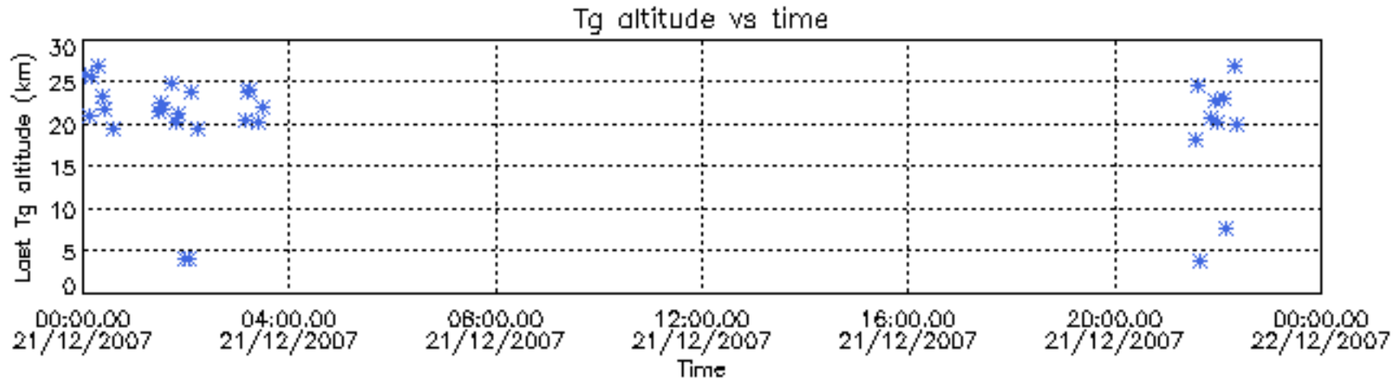
Tangent altitude at which the star is lost

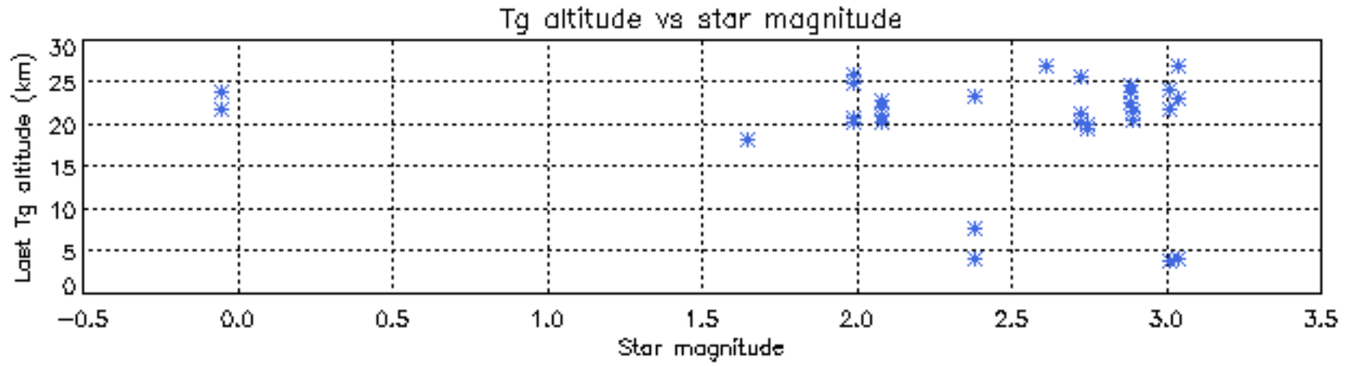


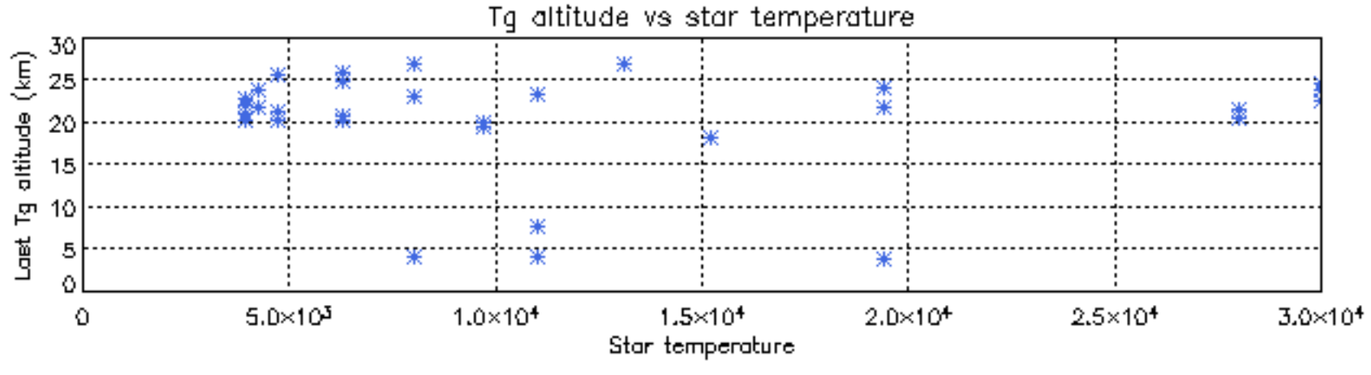


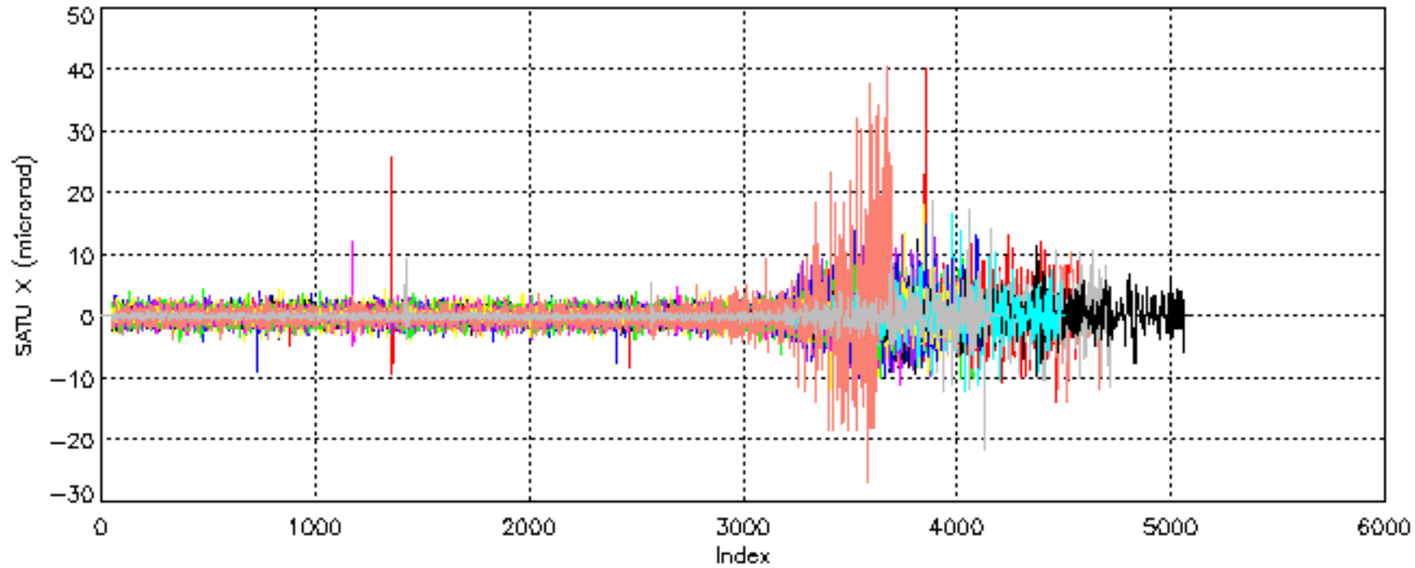


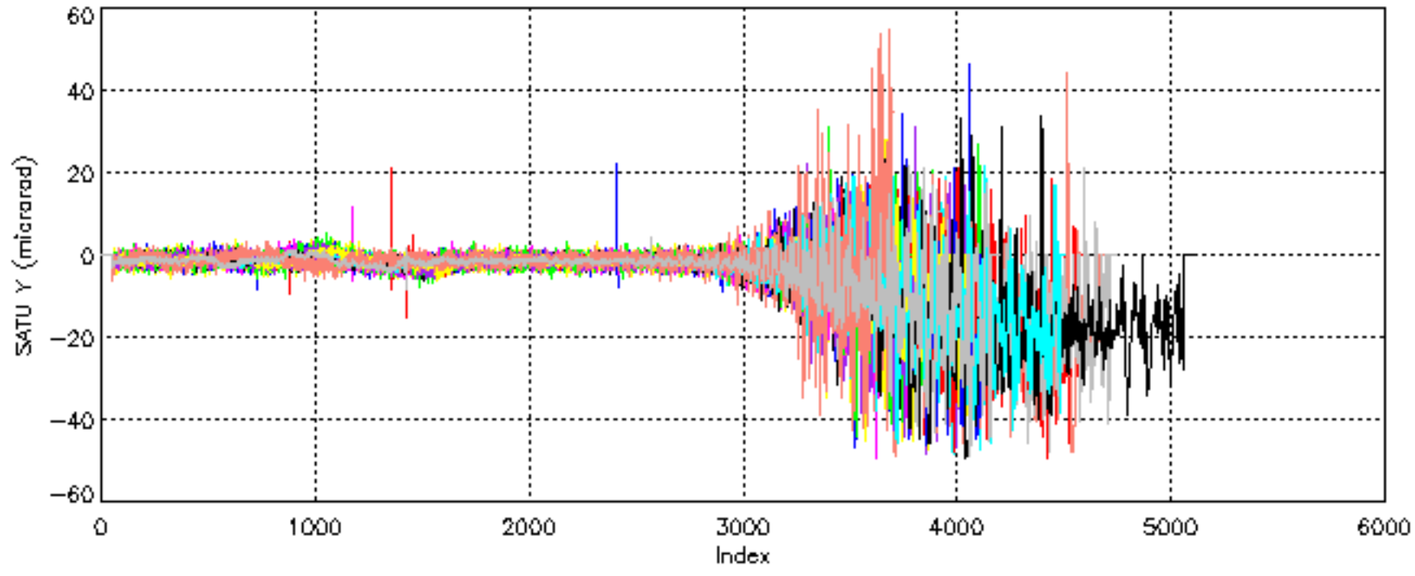
Tangent altitude at which the star is lost

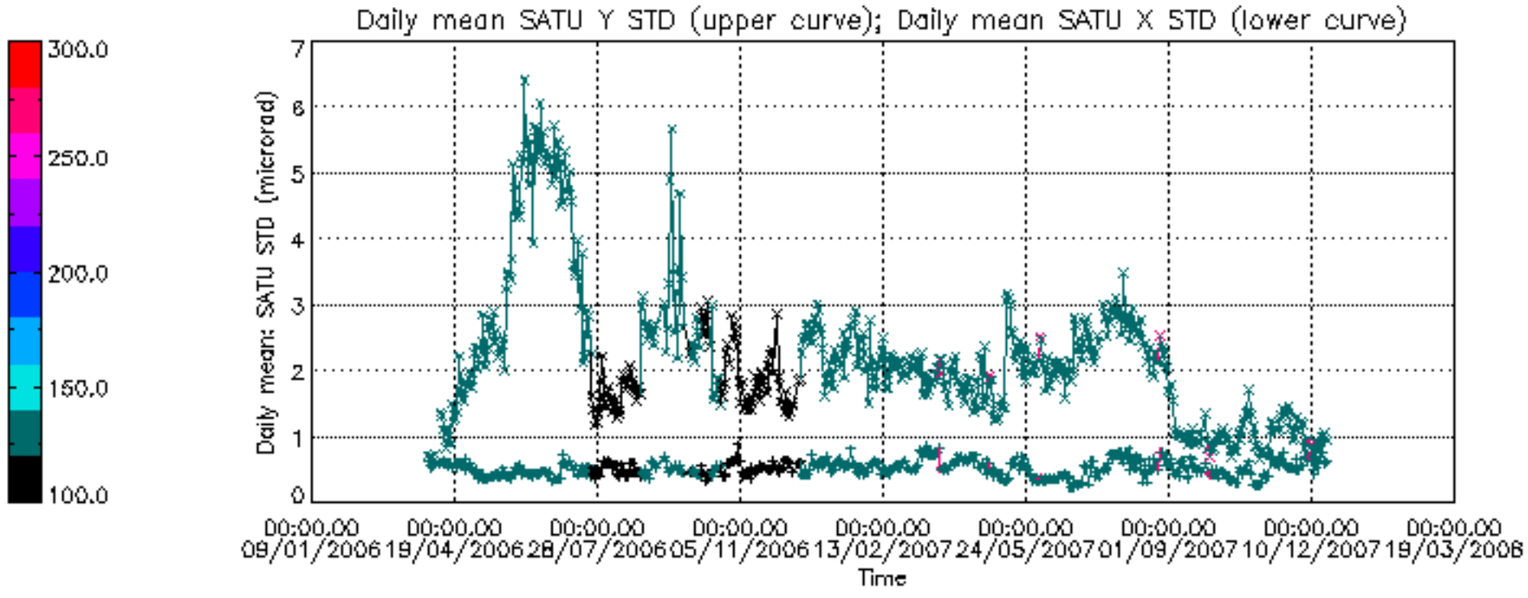







50
40
30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
SATU Y (microrad)
0
1000
2000
3000
4000
5000
6000
Index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1
2
3
4
5
6
7
00:00.00 09/01/2006
00:00.00 19/04/2006
00:00.00 28/07/2006
00:00.00 05/11/2006
00:00.00 13/02/2007
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Time

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  17; 3990.5; 13-DEC-2007 21:11:02; Bright; 41.0;   32; 77Eps UMa ; 1.76; 11000;occ; 82;   0;30257
  18; 4139.5; 13-DEC-2007 21:13:31; Bright; 37.0;   39; 85Eta UMa ; 1.85; 24000;occ; 74;   0;30257
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