GOMOS Daily Report 06-JUL-2010

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.

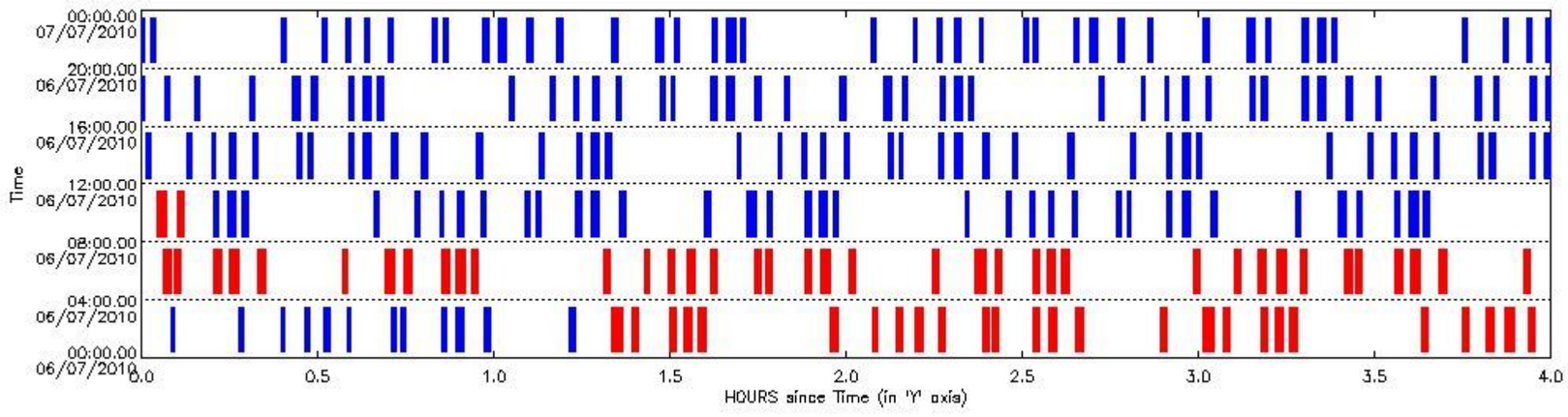
Item	Value
Time of report generation	13JUL2010 05:06:40
Data source version	GOMOS/5.01
Start time of products	06JUL2010 00:04:52
Stop time of products	06JUL2010 23:59:05
Store outputs in DB	Yes
Nb of level 1b prods	47
Nb of prods with errors	0

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
06-JUL-2010 01:20:05	16BetCet	52	43643
06-JUL-2010 01:23:31	AlpPhe	84	43644
06-JUL-2010 01:29:53	BetGru	63	43644
06-JUL-2010 01:32:18	24AlpPsA	18	43644
06-JUL-2010 01:34:47	GamGru	172	43644
06-JUL-2010 01:57:20	17ZetAql	168	43644
06-JUL-2010 02:04:22	3AlpLyr	5	43644
06-JUL-2010 02:08:27	18DelCyg	144	43644
06-JUL-2010 02:11:41	50AlpCyg	19	43644
06-JUL-2010 02:15:38	5AlpCep	89	43644
06-JUL-2010 02:23:07	11BetCas	74	43644
06-JUL-2010 02:24:56	37DelCas	110	43644
06-JUL-2010 02:31:41	57Gam1And	73	43644
06-JUL-2010 02:34:20	43BetAnd	53	43644
06-JUL-2010 02:39:05	13AlpAri	50	43644

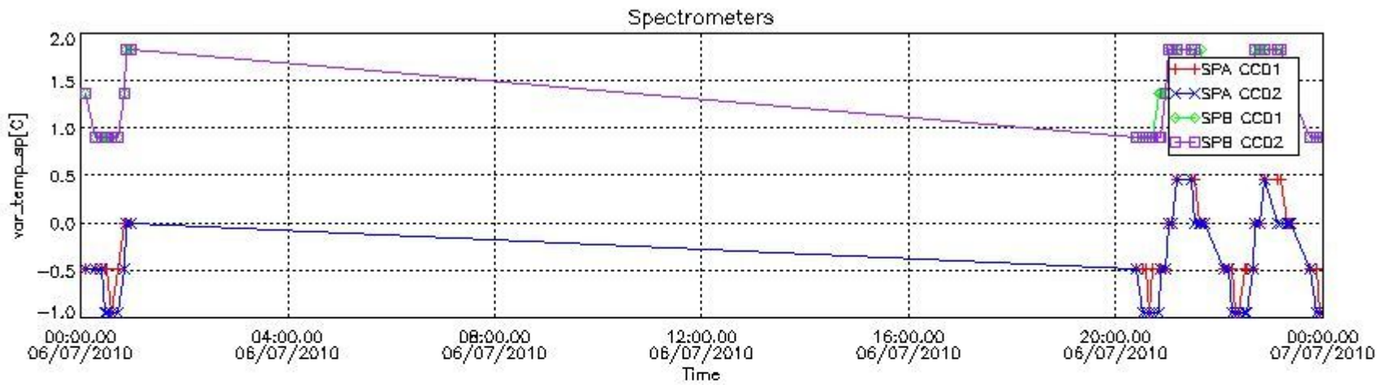
06-JUL-2010 02:53:29	DSA1066	0	43644
06-JUL-2010 03:00:44	16BetCet	52	43644
06-JUL-2010 03:04:08	AlpPhe	84	43645
06-JUL-2010 03:10:30	BetGru	63	43645
06-JUL-2010 03:12:55	24AlpPsA	18	43645
06-JUL-2010 03:15:24	GamGru	172	43645
06-JUL-2010 03:37:55	17ZetAql	168	43645
06-JUL-2010 03:44:58	3AlpLyr	5	43645
06-JUL-2010 03:49:02	18DelCyg	144	43645
06-JUL-2010 03:52:16	50AlpCyg	19	43645
06-JUL-2010 03:56:13	5AlpCep	89	43645
06-JUL-2010 04:03:43	11BetCas	74	43645
06-JUL-2010 04:05:31	37DelCas	110	43645
06-JUL-2010 04:12:17	57Gam1And	73	43645
06-JUL-2010 04:14:56	43BetAnd	53	43645
06-JUL-2010 04:19:42	13AlpAri	50	43645
06-JUL-2010 04:34:06	DSA1066	0	43645
06-JUL-2010 04:41:22	16BetCet	52	43645
06-JUL-2010 04:44:45	AlpPhe	84	43646
06-JUL-2010 04:51:06	BetGru	63	43646
06-JUL-2010 04:53:33	24AlpPsA	18	43646
06-JUL-2010 04:56:01	GamGru	172	43646
06-JUL-2010 05:18:31	17ZetAql	168	43646
06-JUL-2010 05:25:33	3AlpLyr	5	43646
06-JUL-2010 05:29:38	18DelCyg	144	43646
06-JUL-2010 05:32:51	50AlpCyg	19	43646
06-JUL-2010 05:36:49	5AlpCep	89	43646
06-JUL-2010 05:44:18	11BetCas	74	43646
06-JUL-2010 05:46:07	37DelCas	110	43646
06-JUL-2010 05:52:53	57Gam1And	73	43646
06-JUL-2010 05:55:32	43BetAnd	53	43646
06-JUL-2010 06:00:18	13AlpAri	50	43646
06-JUL-2010 06:14:43	DSA1066	0	43646
06-JUL-2010 06:22:00	16BetCet	52	43646
06-JUL-2010 06:25:22	AlpPhe	84	43647
06-JUL-2010 06:31:43	BetGru	63	43647
06-JUL-2010 06:34:11	24AlpPsA	18	43647
06-JUL-2010 06:36:37	GamGru	172	43647
06-JUL-2010 06:59:06	17ZetAql	168	43647
06-JUL-2010 07:06:09	3AlpLyr	5	43647
06-JUL-2010 07:10:13	18DelCyg	144	43647
06-JUL-2010 07:13:26	50AlpCyg	19	43647
06-JUL-2010 07:17:24	5AlpCep	89	43647
06-JUL-2010 07:24:54	11BetCas	74	43647
06-JUL-2010 07:26:42	37DelCas	110	43647
06-JUL-2010 07:33:29	57Gam1And	73	43647
06-JUL-2010 07:36:07	43BetAnd	53	43647
06-JUL-2010 07:40:54	13AlpAri	50	43647
06-JUL-2010 07:55:20	DSA1066	0	43647
06-JUL-2010 08:02:38	16BetCet	52	43647
06-JUL-2010 08:05:59	AlpPhe	84	43648

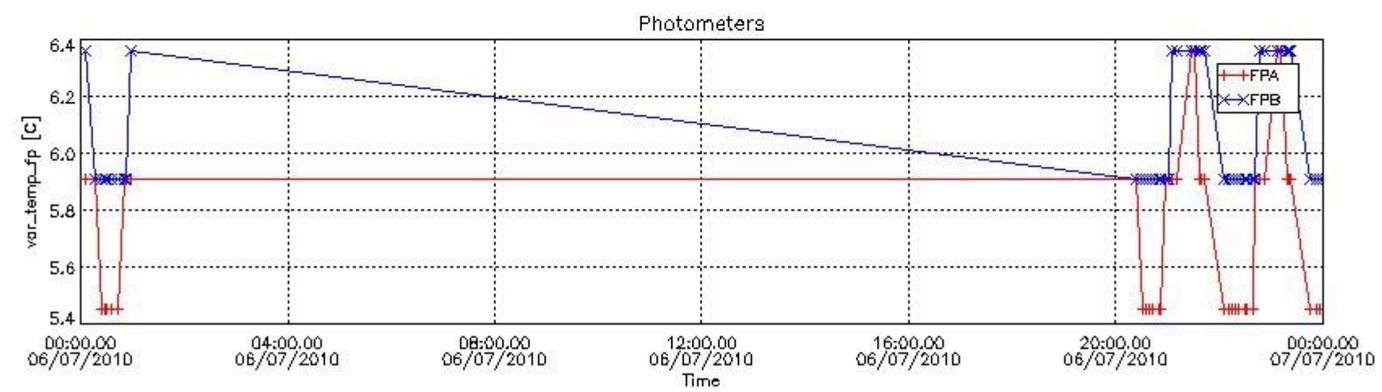
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100706_000452_000000402091_00002_43643_4590.N1	06-JUL-2010 00:04:52	Bright	40.000	155	41Pi Sgr	2.9000	6600.0	80	43643	No
2	GOM_TRA_1PNPDE20100706_001635_000000452091_00002_43643_4591.N1	06-JUL-2010 00:16:35	Bright	45.000	168	17Zet Aql	2.9860	11000.	90	43643	No
3	GOM_TRA_1PNPDE20100706_002337_000000392091_00002_43643_4592.N1	06-JUL-2010 00:23:37	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	43643	No

4	GOM_TRA_1PNPDE20100706_002743_000000482091_00002_43643_4593.N1	06-JUL-2010 00:27:43	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	43643	No
5	GOM_TRA_1PNPDE20100706_003057_000000582091_00002_43643_4594.N1	06-JUL-2010 00:30:57	Bright	58.000	19	50Alp Cyg	1.2460	10500.	116	43643	No
6	GOM_TRA_1PNPDE20100706_003454_000000442091_00002_43643_4595.N1	06-JUL-2010 00:34:54	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	43643	No
7	GOM_TRA_1PNPDE20100706_004222_000000522091_00002_43643_4596.N1	06-JUL-2010 00:42:22	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	43643	No
8	GOM_TRA_1PNPDE20100706_004410_000000492091_00002_43643_4596.N1	06-JUL-2010 00:44:10	Bright	49.000	110	37Del Cas	2.6780	8900.0	98	43643	No
9	GOM_TRA_1PNPDE20100706_005056_000000532091_00002_43643_4597.N1	06-JUL-2010 00:50:56	Bright	52.500	73	57Gam1And	2.2600	13100.	105	43643	No
10	GOM_TRA_1PNPDE20100706_005334_000000822091_00002_43643_4598.N1	06-JUL-2010 00:53:34	Twi_and_stray	81.500	53	43Bet And	2.0480	3300.0	163	43643	No
11	GOM_TRA_1PNPDE20100706_005819_000000692091_00002_43643_4599.N1	06-JUL-2010 00:58:19	Dark	68.500	50	13Alp Ari	2.0070	4250.0	137	43643	No
12	GOM_TRA_1PNPDE20100706_202341_000000452091_00014_43655_4687.N1	06-JUL-2010 20:23:41	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	43655	No
13	GOM_TRA_1PNPDE20100706_203044_000000412091_00014_43655_4688.N1	06-JUL-2010 20:30:44	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	43655	No
14	GOM_TRA_1PNPDE20100706_203445_000000472091_00014_43655_4689.N1	06-JUL-2010 20:34:45	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	43655	No
15	GOM_TRA_1PNPDE20100706_203755_000000572091_00014_43655_4690.N1	06-JUL-2010 20:37:55	Bright	57.000	19	50Alp Cyg	1.2460	10500.	114	43655	No
16	GOM_TRA_1PNPDE20100706_204157_000000422091_00014_43655_4691.N1	06-JUL-2010 20:41:57	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	43655	No
17	GOM_TRA_1PNPDE20100706_204927_000000492091_00014_43655_4692.N1	06-JUL-2010 20:49:27	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	43655	No
18	GOM_TRA_1PNPDE20100706_205118_000000442091_00014_43655_4693.N1	06-JUL-2010 20:51:18	Bright	44.000	110	37Del Cas	2.6780	8900.0	88	43655	No
19	GOM_TRA_1PNPDE20100706_205806_000000552091_00014_43655_4694.N1	06-JUL-2010 20:58:06	Bright	54.500	73	57Gam1And	2.2600	13100.	109	43655	No
20	GOM_TRA_1PNPDE20100706_210045_000000842091_00014_43655_4695.N1	06-JUL-2010 21:00:45	Twi_and_stray	84.000	53	43Bet And	2.0480	3300.0	168	43655	No
21	GOM_TRA_1PNPDE20100706_210535_000000642091_00014_43655_4696.N1	06-JUL-2010 21:05:35	Dark	63.500	50	13Alp Ari	2.0070	4250.0	127	43655	No
22	GOM_TRA_1PNPDE20100706_211042_000000522091_00014_43655_4697.N1	06-JUL-2010 21:10:42	Dark	51.500	94	92Alp Cet	2.5260	3100.0	103	43655	No
23	GOM_TRA_1PNPDE20100706_212733_000000812091_00014_43655_4710.N1	06-JUL-2010 21:27:33	Dark	81.000	52	16Bet Cet	2.0370	4500.0	162	43655	No
24	GOM_TRA_1PNPDE20100706_213045_000000512091_00015_43656_4711.N1	06-JUL-2010 21:30:45	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	43656	No
25	GOM_TRA_1PNPDE20100706_213706_000000592091_00015_43656_4712.N1	06-JUL-2010 21:37:06	Straylight	58.500	63	Bet Gru	2.1500	2800.0	117	43656	No
26	GOM_TRA_1PNPDE20100706_213939_000000832091_00015_43656_4713.N1	06-JUL-2010 21:39:39	Straylight	83.000	18	24Alp PsA	1.1660	9700.0	166	43656	No
27	GOM_TRA_1PNPDE20100706_214200_000000542091_00015_43656_4714.N1	06-JUL-2010 21:42:00	Straylight	53.500	172	Gam Gru	3.0030	13100.	107	43656	No
28	GOM_TRA_1PNPDE20100706_220417_000000462091_00015_43656_4715.N1	06-JUL-2010 22:04:17	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	43656	No
29	GOM_TRA_1PNPDE20100706_221120_000000402091_00015_43656_4716.N1	06-JUL-2010 22:11:20	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	43656	No
30	GOM_TRA_1PNPDE20100706_221520_000000492091_00015_43656_4717.N1	06-JUL-2010 22:15:20	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	43656	No
31	GOM_TRA_1PNPDE20100706_221830_000000582091_00015_43656_4718.N1	06-JUL-2010 22:18:30	Bright	58.000	19	50Alp Cyg	1.2460	10500.	116	43656	No
32	GOM_TRA_1PNPDE20100706_222232_000000462091_00015_43656_4719.N1	06-JUL-2010 22:22:32	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	43656	No
33	GOM_TRA_1PNPDE20100706_223002_000000502091_00015_43656_4720.N1	06-JUL-2010 22:30:02	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	43656	No
34	GOM_TRA_1PNPDE20100706_223154_000000422091_00015_43656_4721.N1	06-JUL-2010 22:31:54	Bright	42.000	110	37Del Cas	2.6780	8900.0	84	43656	No
35	GOM_TRA_1PNPDE20100706_223842_000000572091_00015_43656_4722.N1	06-JUL-2010 22:38:42	Bright	56.500	73	57Gam1And	2.2600	13100.	113	43656	No
36	GOM_TRA_1PNPDE20100706_224121_000000822091_00015_43656_4723.N1	06-JUL-2010 22:41:21	Twi_and_stray	82.000	53	43Bet And	2.0480	3300.0	164	43656	No
37	GOM_TRA_1PNPDE20100706_224612_000000662091_00015_43656_4724.N1	06-JUL-2010 22:46:12	Dark	66.000	50	13Alp Ari	2.0070	4250.0	132	43656	No
38	GOM_TRA_1PNPDE20100706_225118_000000512091_00015_43656_4725.N1	06-JUL-2010 22:51:18	Dark	50.500	94	92Alp Cet	2.5260	3100.0	101	43656	No
39	GOM_TRA_1PNPDE20100706_230812_000000762091_00015_43656_4728.N1	06-JUL-2010 23:08:12	Dark	76.000	52	16Bet Cet	2.0370	4500.0	152	43656	No
40	GOM_TRA_1PNPDE20100706_231122_000000482091_00016_43657_4729.N1	06-JUL-2010 23:11:22	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	43657	No
41	GOM_TRA_1PNPDE20100706_231742_000000622091_00016_43657_4730.N1	06-JUL-2010 23:17:42	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	43657	No
42	GOM_TRA_1PNPDE20100706_232016_000000832091_00016_43657_4731.N1	06-JUL-2010 23:20:16	Straylight	83.000	18	24Alp PsA	1.1660	9700.0	166	43657	No
43	GOM_TRA_1PNPDE20100706_232237_000000542091_00016_43657_4732.N1	06-JUL-2010 23:22:37	Straylight	53.500	172	Gam Gru	3.0030	13100.	107	43657	No
44	GOM_TRA_1PNPDE20100706_234453_000000442091_00016_43657_4733.N1	06-JUL-2010 23:44:53	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	43657	No
45	GOM_TRA_1PNPDE20100706_235155_000000402091_00016_43657_4734.N1	06-JUL-2010 23:51:55	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	43657	No
46	GOM_TRA_1PNPDE20100706_235555_000000452091_00016_43657_4735.N1	06-JUL-2010 23:55:55	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	43657	No
47	GOM_TRA_1PNPDE20100706_235905_000000582091_00016_43657_4736.N1	06-JUL-2010 23:59:05	Bright	58.000	19	50Alp Cyg	1.2460	10500.	116	43657	No

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





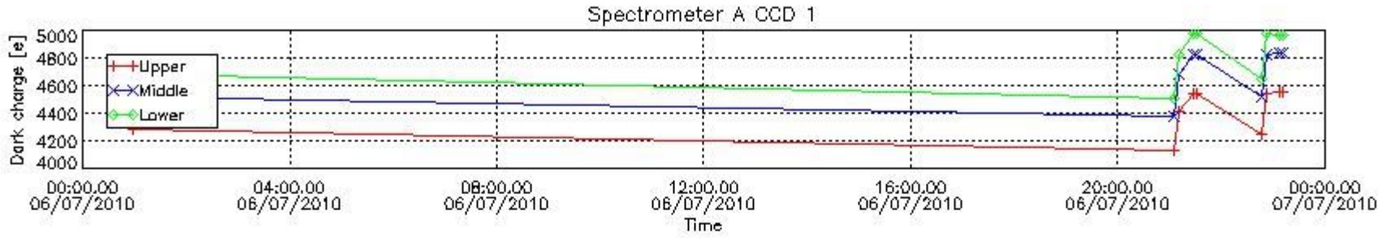
4. Overview of dark signal processing per product

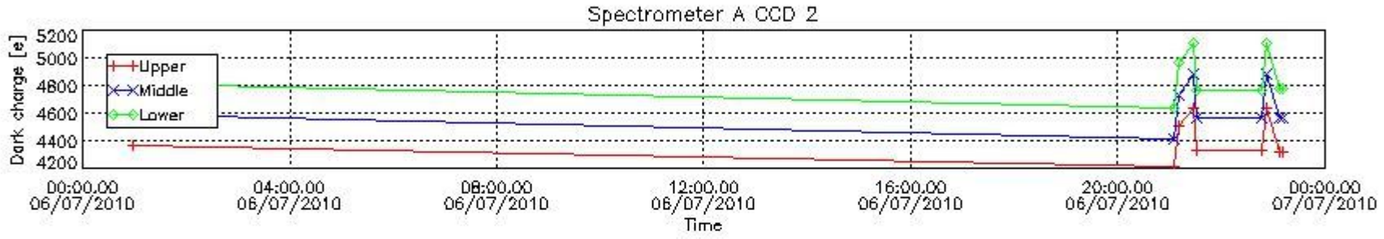
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

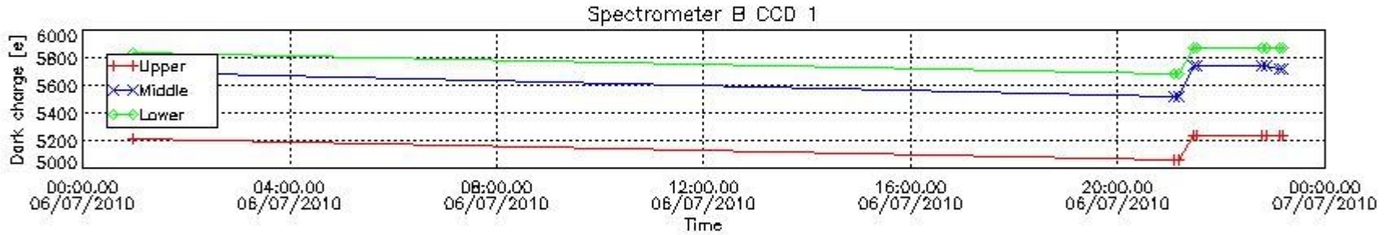
4.1 These products did not use the DSA observation for DC computation:

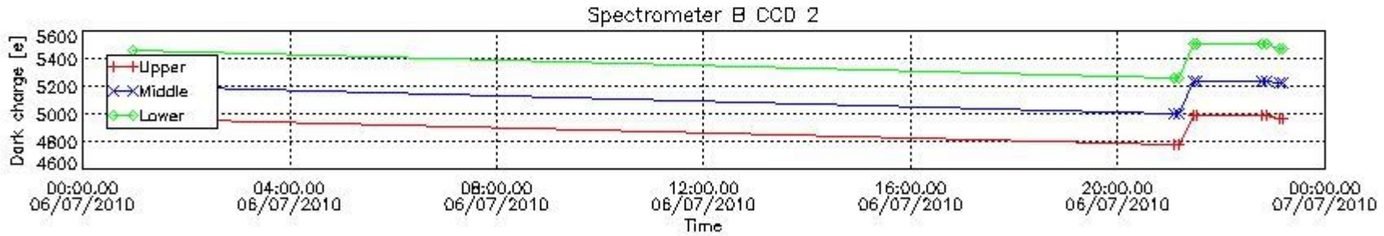
Product name	DC information
GOM_TRA_1PNPDE20100706_202341_000000452091_00014_43655_4687.N1	DC map used
GOM_TRA_1PNPDE20100706_203044_000000412091_00014_43655_4688.N1	DC map used
GOM_TRA_1PNPDE20100706_203445_000000472091_00014_43655_4689.N1	DC map used
GOM_TRA_1PNPDE20100706_203755_000000572091_00014_43655_4690.N1	DC map used
GOM_TRA_1PNPDE20100706_204157_000000422091_00014_43655_4691.N1	DC map used
GOM_TRA_1PNPDE20100706_204927_000000492091_00014_43655_4692.N1	DC map used
GOM_TRA_1PNPDE20100706_205118_000000442091_00014_43655_4693.N1	DC map used
GOM_TRA_1PNPDE20100706_205806_000000552091_00014_43655_4694.N1	DC map used
GOM_TRA_1PNPDE20100706_210045_000000842091_00014_43655_4695.N1	DC map used
GOM_TRA_1PNPDE20100706_210535_000000642091_00014_43655_4696.N1	DC map used
GOM_TRA_1PNPDE20100706_211042_000000522091_00014_43655_4697.N1	DC map used

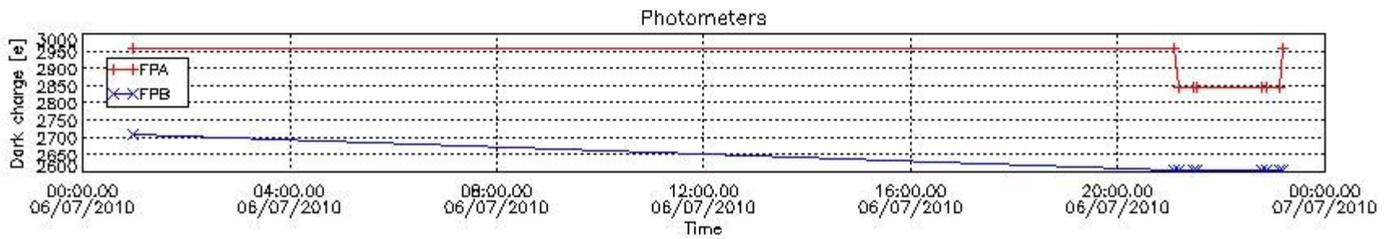
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











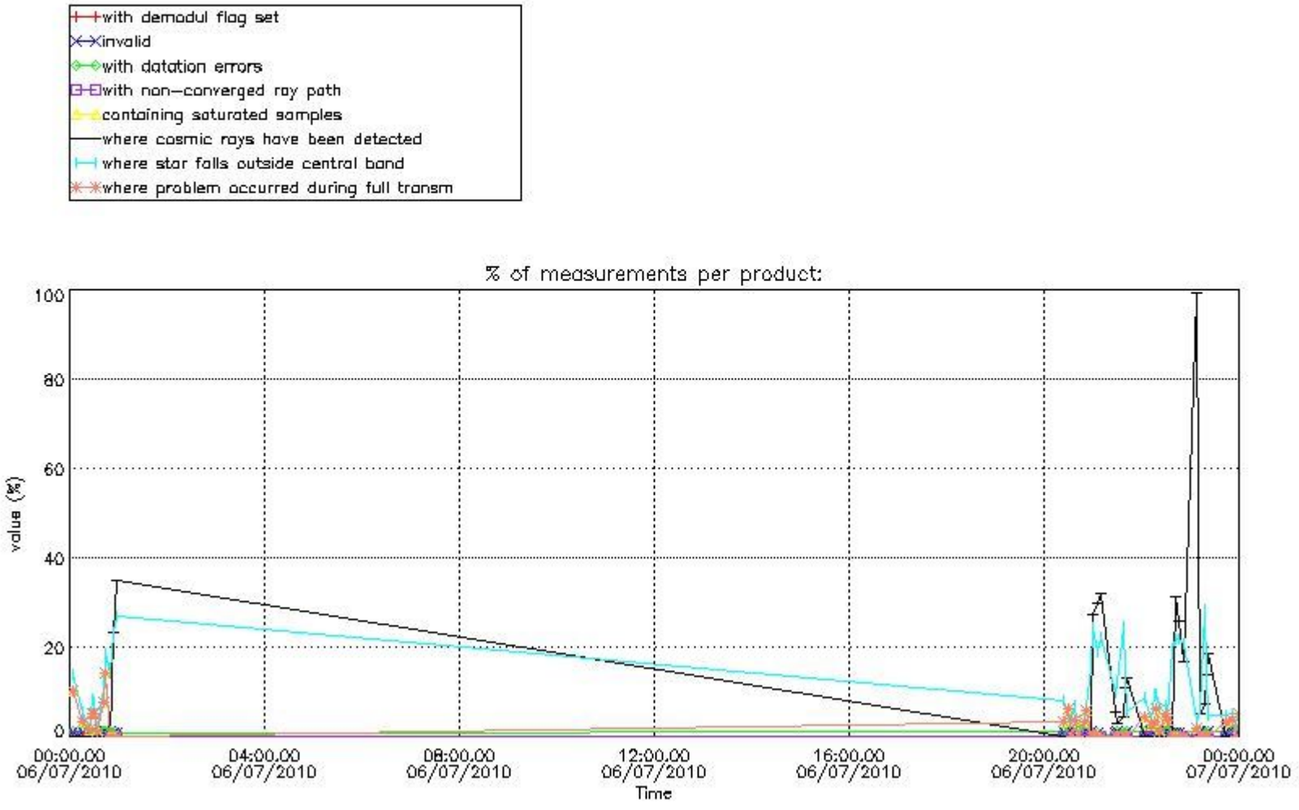
5. Demodulation flag and quality information monitoring

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:

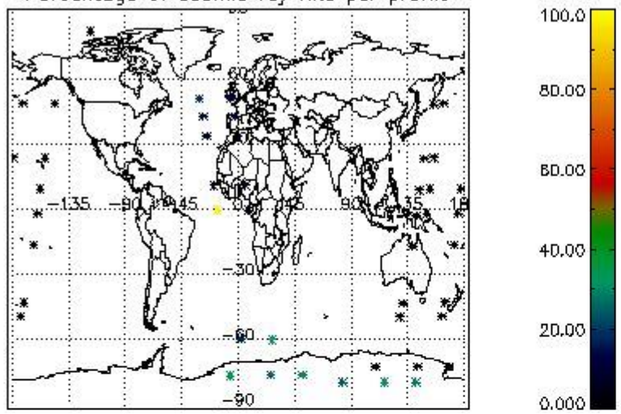
At least one measurement with demodulation flag set:	31.9149 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

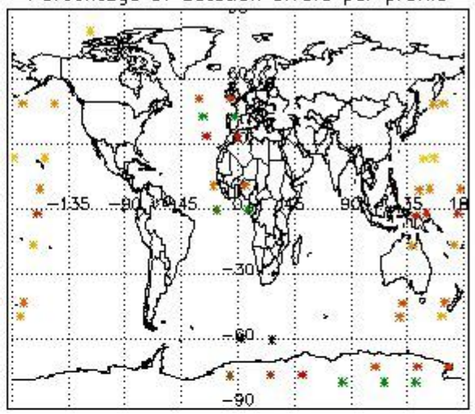


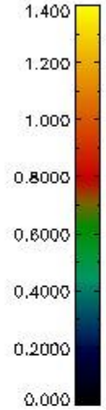
5.3 Plot quality information per product (world map)

Percentage of cosmic ray hits per profile

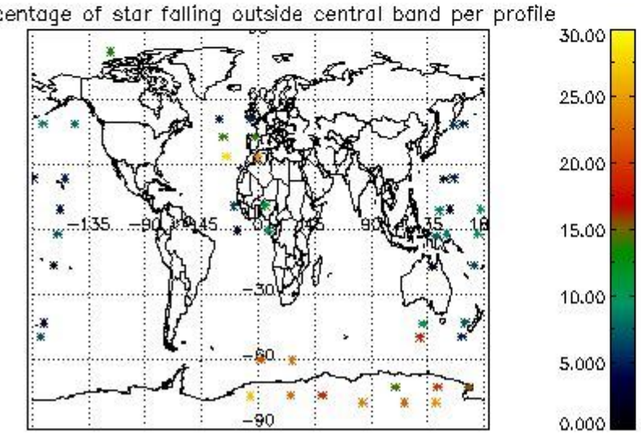


Percentage of datation errors per profile

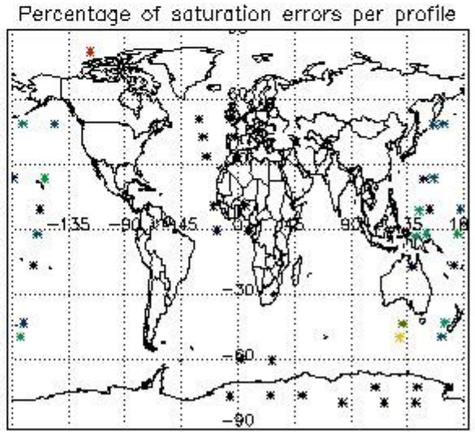


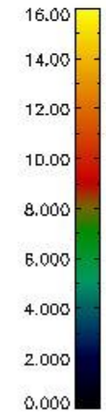


Percentage of star falling outside central band per profile



Percentage of saturation errors per profile





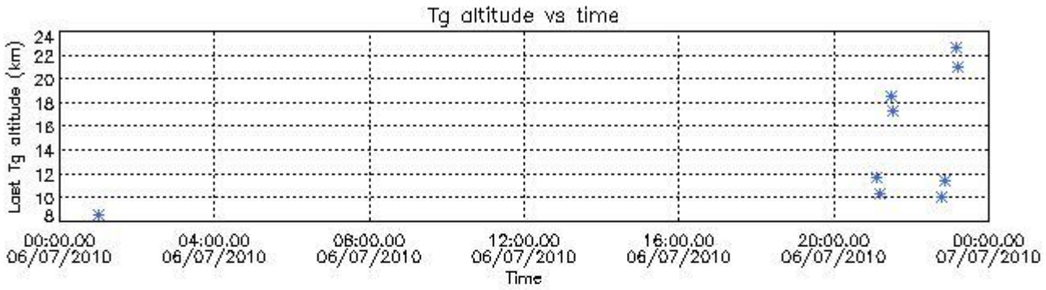
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

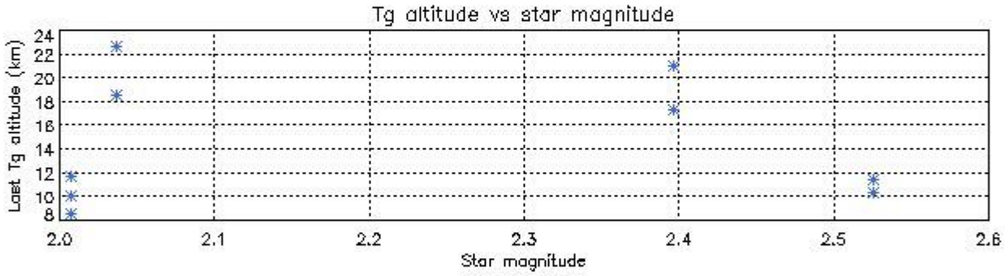
6.1 Statistics on tangent altitude lost:

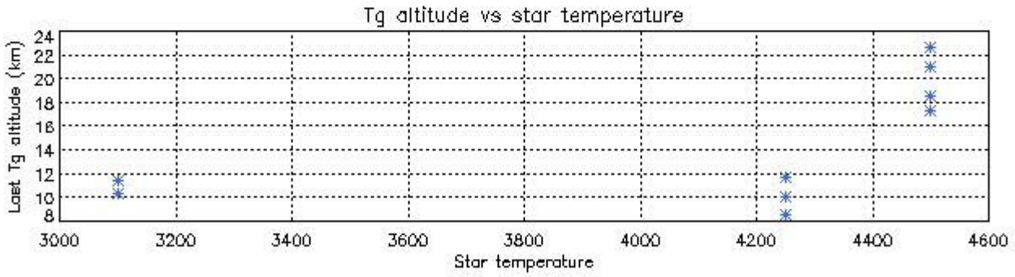
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.618	20.371	NaN
St. deviation:	5.2472	3.5510	NaN
Maximum:	22.588	28.970	NaN
Minimum:	8.5542	12.431	NaN
Number of data:	9.0000	29.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

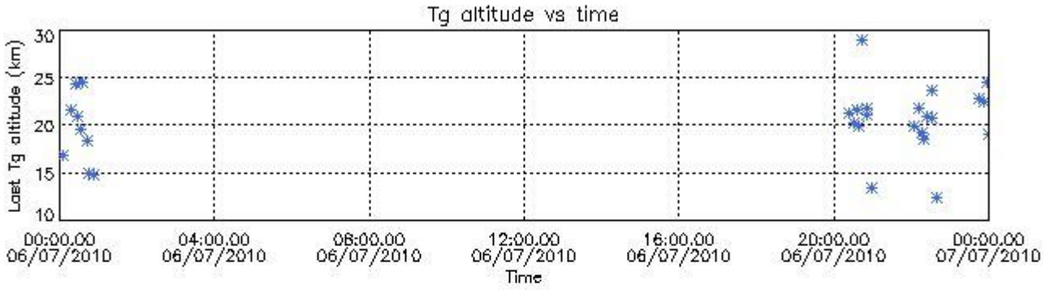


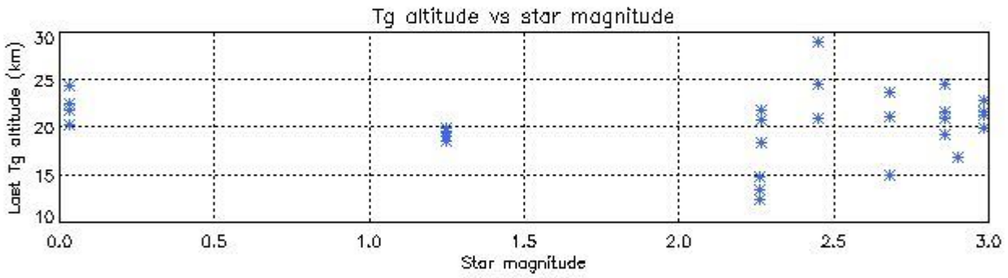


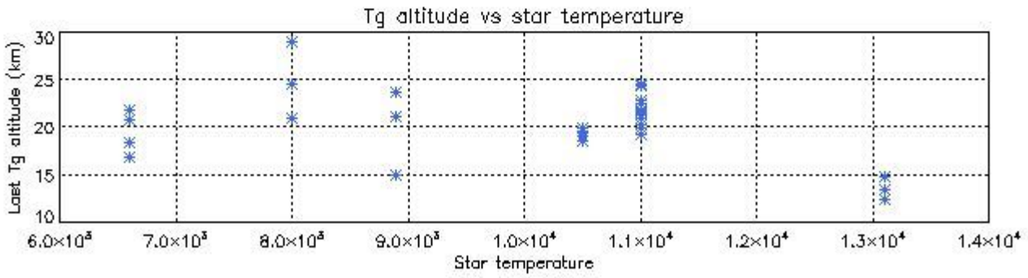


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





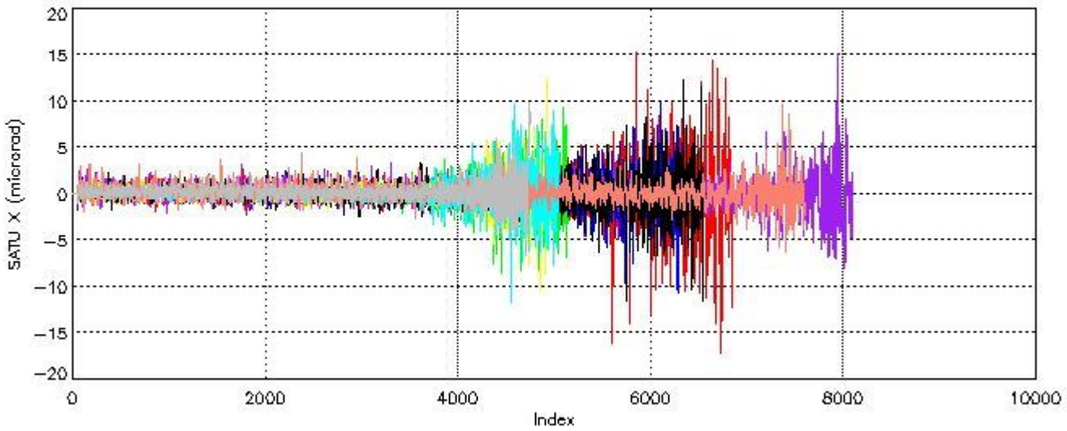


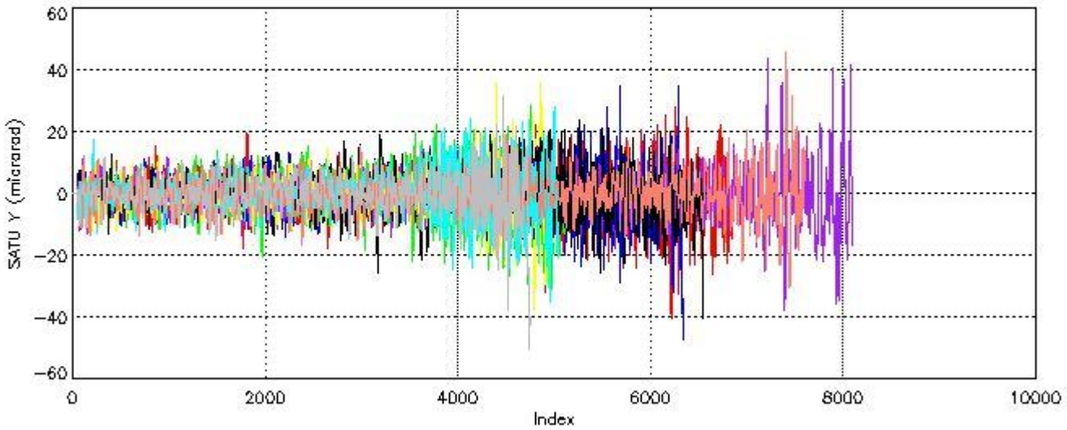
7. Star Acquisition and Tracking Unit (SATU)

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:	0.20661	-0.41492	0.25047	-0.49067
St. deviation:	0.51065	4.4053	0.94657	4.4450
Maximum:	3.7000	17.200	6.4000	20.900
Minimum:	-2.1000	-13.600	-5.1000	-18.900

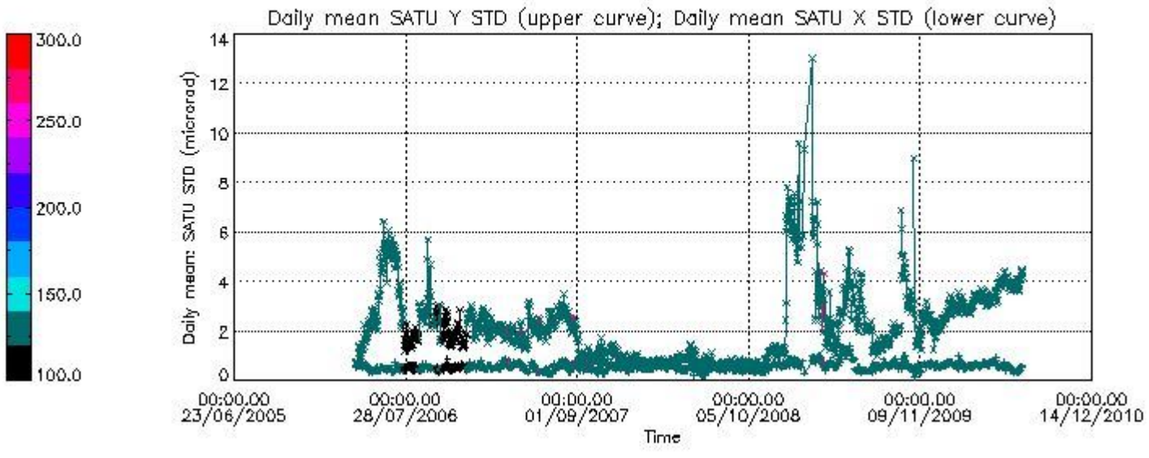
Number of data:	11850.	11850.	32750.	32750.

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.

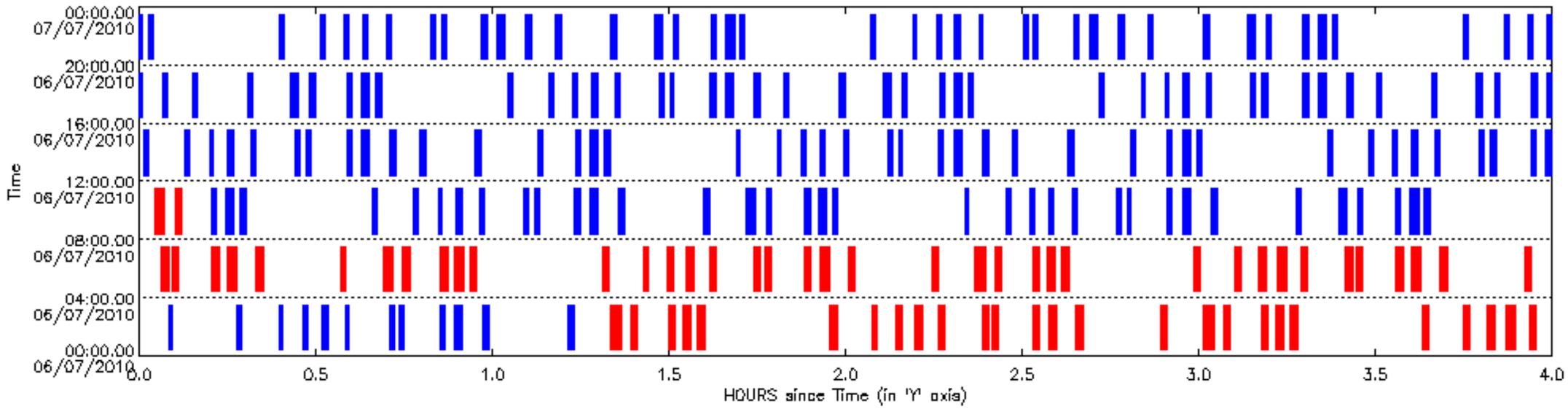
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

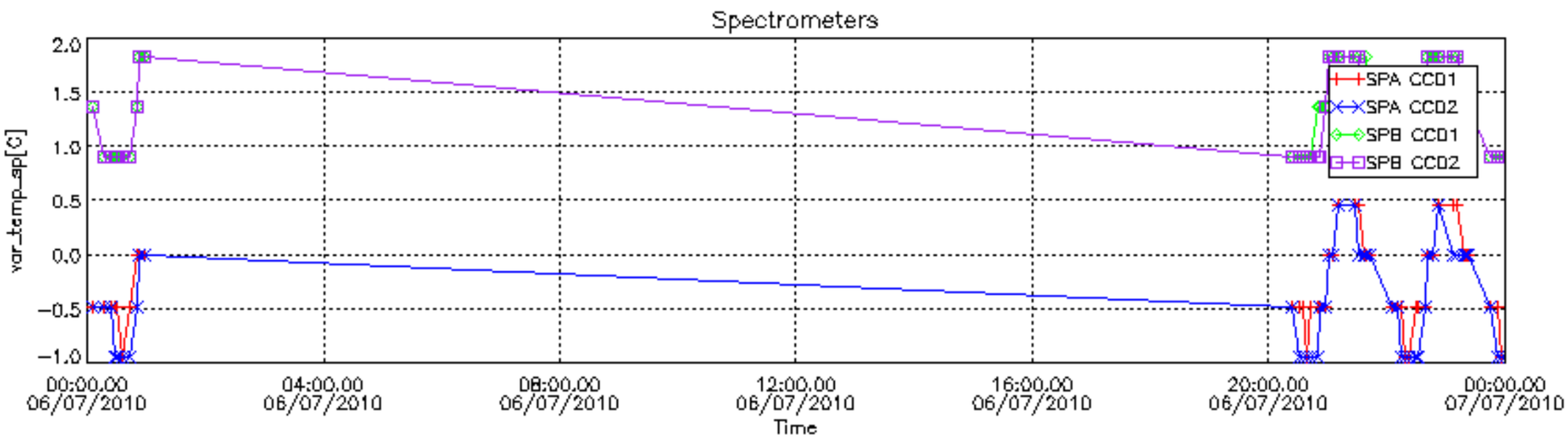


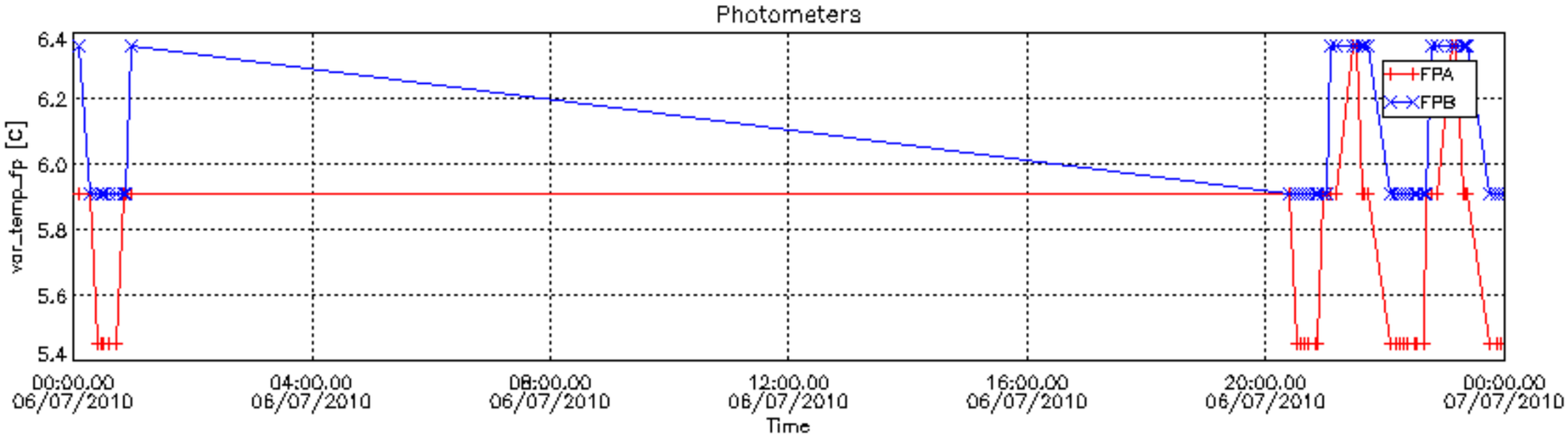
8. Auxiliary Data Files used for the production reported in section 2.4

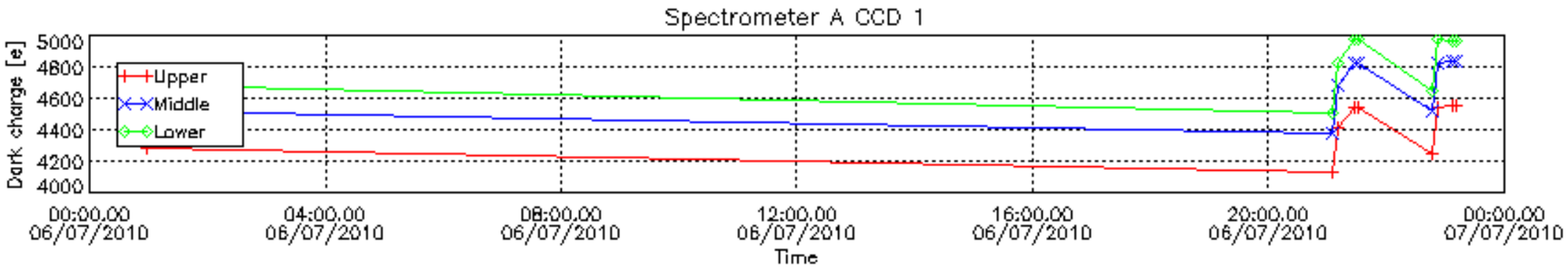
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

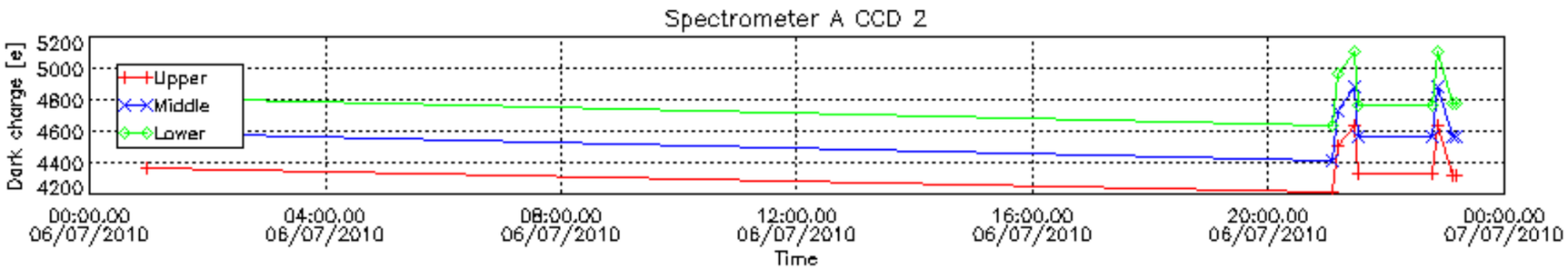
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-JUL-2010 00:04:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100629_101415_20100627_000000_20500101_000000	1	06-JUL-2010 00:04:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100706_092041_20100704_000000_20500101_000000	12	06-JUL-2010 20:23:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	06-JUL-2010 00:04:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-JUL-2010 00:04:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	06-JUL-2010 00:04:52
ECMWF_FILE	AUX_ECF_AXNECM20100705_054113_20100705_210000_20100706_090000	1	06-JUL-2010 00:04:52
ECMWF_FILE	AUX_ECA_AXNECM20100706_052114_20100705_210000_20100706_090000	8	06-JUL-2010 00:44:10
ECMWF_FILE	AUX_ECF_AXNECM20100706_052114_20100706_150000_20100707_030000	12	06-JUL-2010 20:23:41
ECMWF_FILE	AUX_ECF_AXNECM20100706_054112_20100706_210000_20100707_090000	23	06-JUL-2010 21:27:33
OPTIONAL_ECMWF_FILE	MISSING	1	06-JUL-2010 00:04:52
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100705_232607_000047822091_00001_43642_0690.N1	1	06-JUL-2010 00:04:52
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100706_195846_000041442091_00014_43655_0695.N1	12	06-JUL-2010 20:23:41
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100706_212114_20100706_112407_20100716_125022	23	06-JUL-2010 21:27:33
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100706_225406_000057382091_00015_43656_0697.N1	39	06-JUL-2010 23:08:12

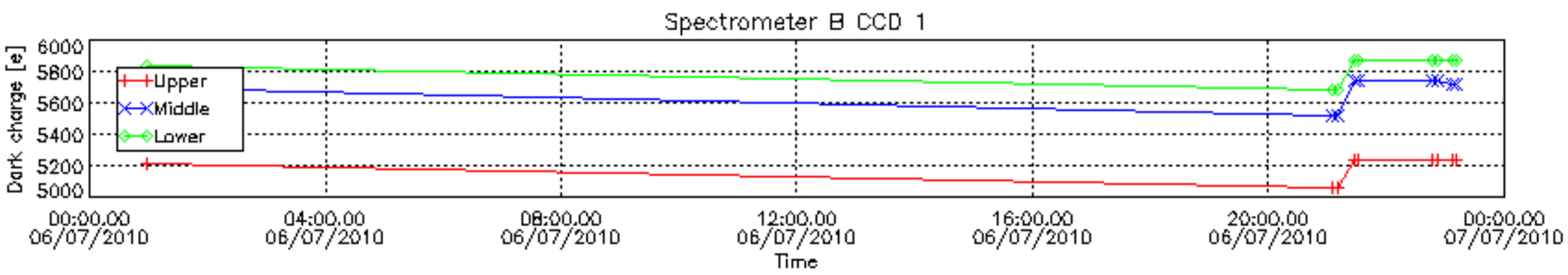

00:00.00
07/07/2010
20:00.00
06/07/2010
16:00.00
06/07/2010
12:00.00
06/07/2010
08:00.00
06/07/2010
04:00.00
06/07/2010
00:00.00
06/07/2010
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

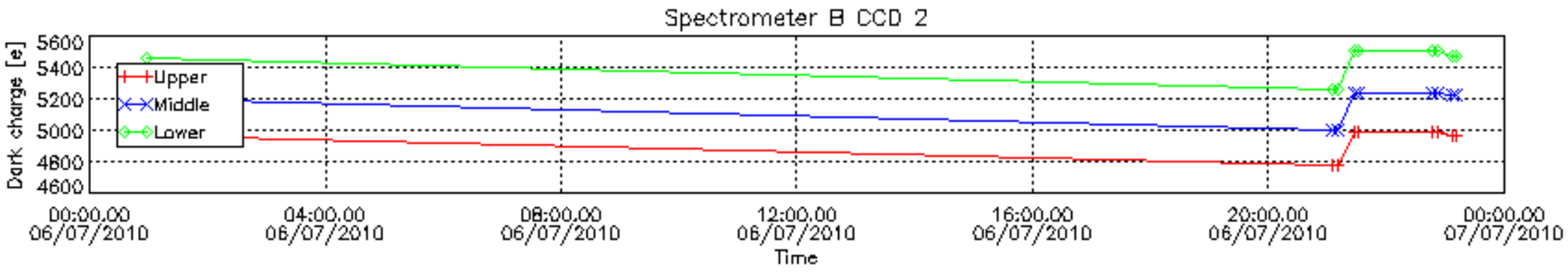

Spectrometers
var_temp_sp[C]
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
06/07/2010
04:00.00
06/07/2010
08:00.00
06/07/2010
12:00.00
06/07/2010
16:00.00
06/07/2010
20:00.00
06/07/2010
00:00.00
07/07/2010
Time

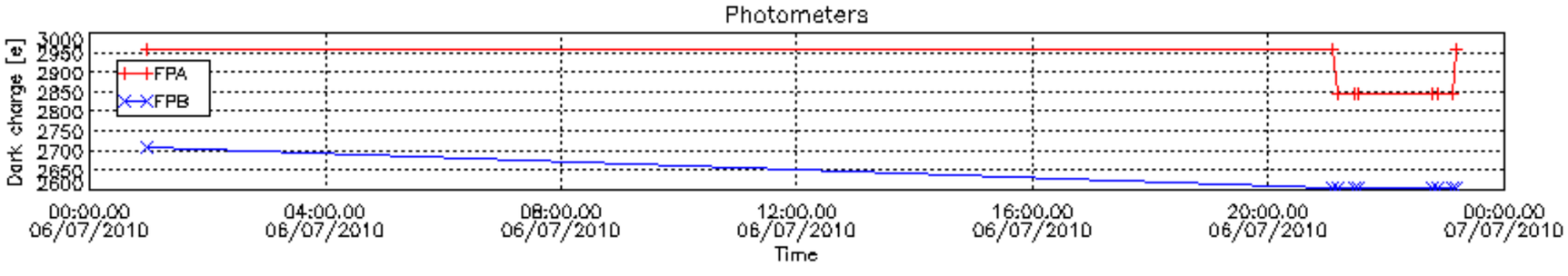

Photometers
var_temp_fp [C]
6.4
6.2
6.0
5.8
5.6
5.4
FPA
FPB
00:00.00
06/07/2010
04:00.00
06/07/2010
08:00.00
06/07/2010
12:00.00
06/07/2010
16:00.00
06/07/2010
20:00.00
06/07/2010
00:00.00
07/07/2010
Time

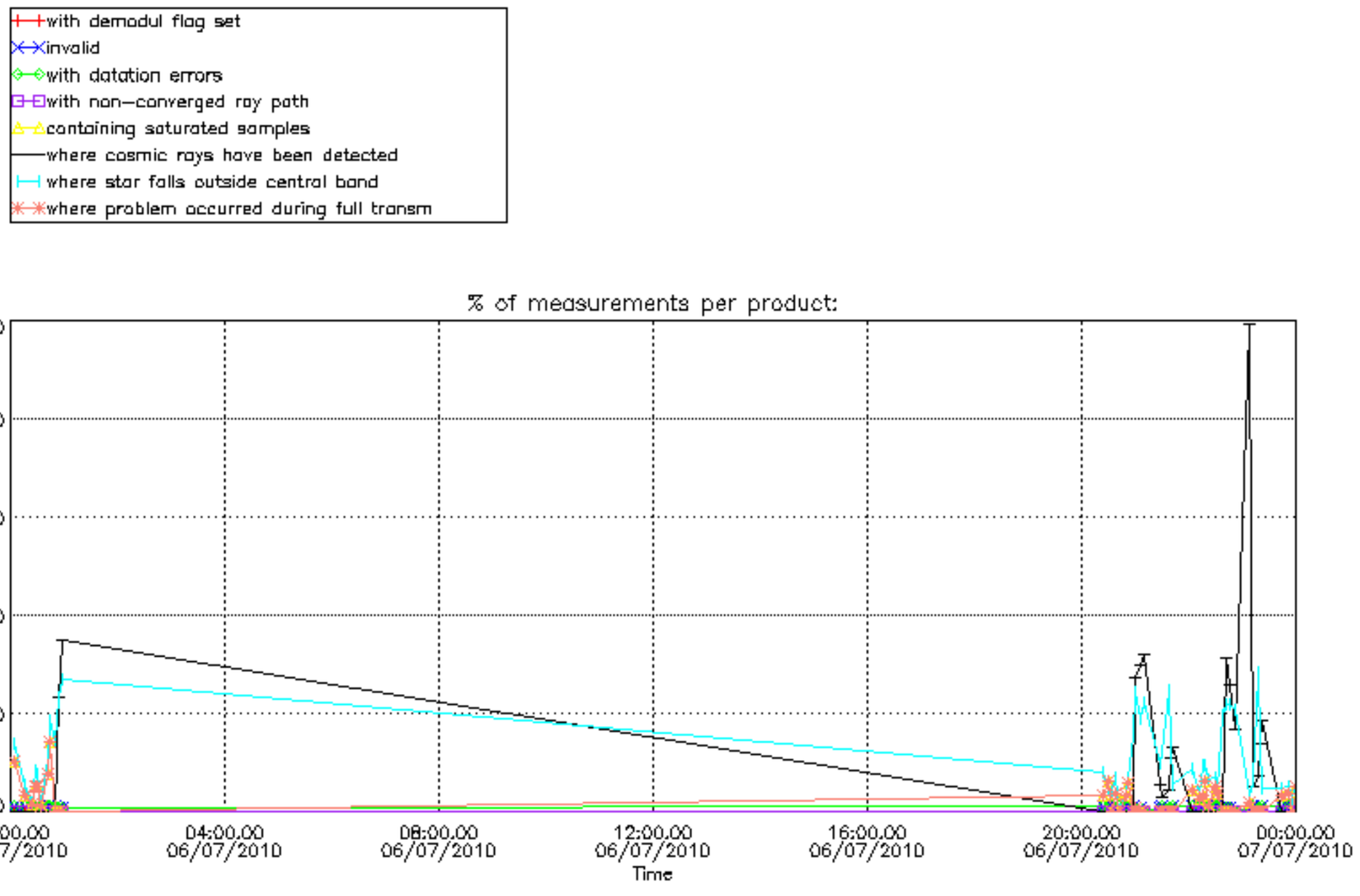

Spectrometer A CCD 1
Dark charge [e]
5000
4800
4600
4400
4200
4000
Upper
Middle
Lower
00:00.00 06/07/2010
04:00.00 06/07/2010
08:00.00 06/07/2010
12:00.00 06/07/2010
16:00.00 06/07/2010
20:00.00 06/07/2010
00:00.00 07/07/2010
Time

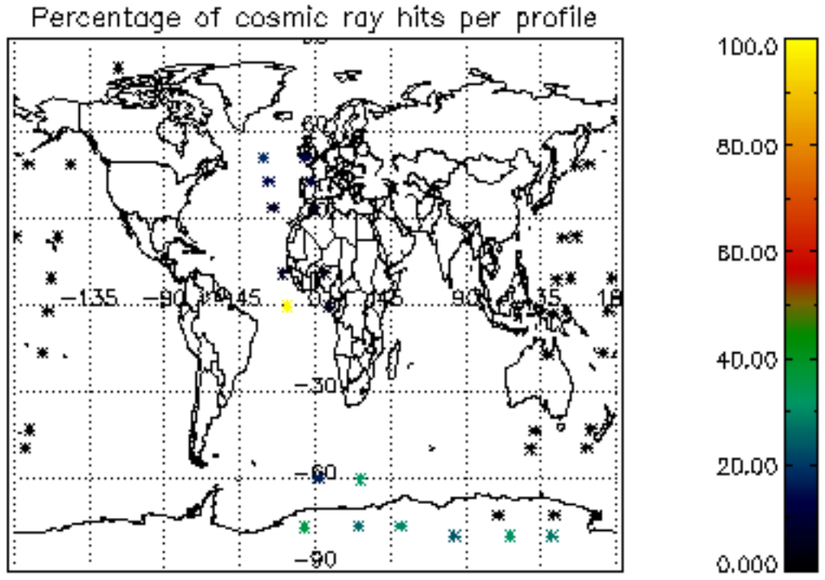

Spectrometer A CCD 2
Dark charge [e]
5200
5000
4800
4600
4400
4200
Upper
Middle
Lower
00:00.00 06/07/2010
04:00.00 06/07/2010
08:00.00 06/07/2010
12:00.00 06/07/2010
16:00.00 06/07/2010
20:00.00 06/07/2010
00:00.00 07/07/2010
Time

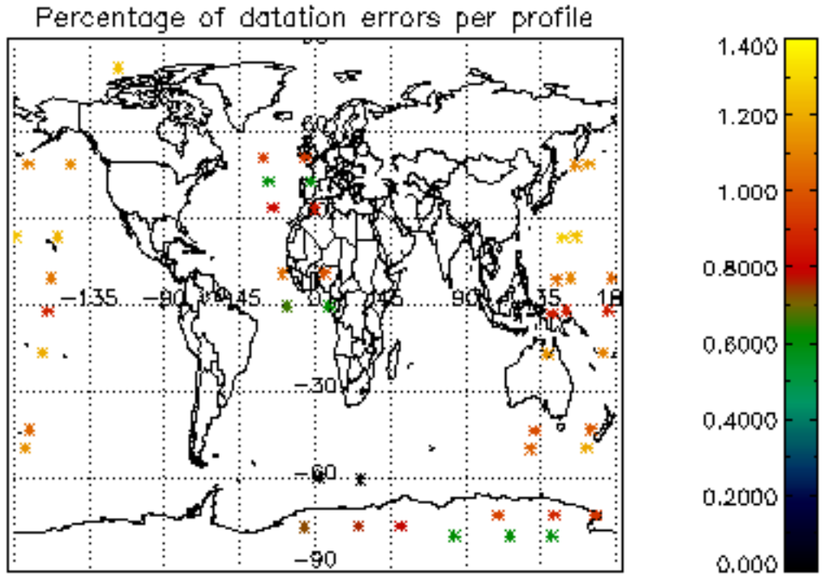

Spectrometer B CCD 1
Dark charge [e]
6000
5800
5600
5400
5200
5000
Upper
Middle
Lower
00:00.00 06/07/2010
04:00.00 06/07/2010
08:00.00 06/07/2010
12:00.00 06/07/2010
16:00.00 06/07/2010
20:00.00 06/07/2010
00:00.00 07/07/2010
Time

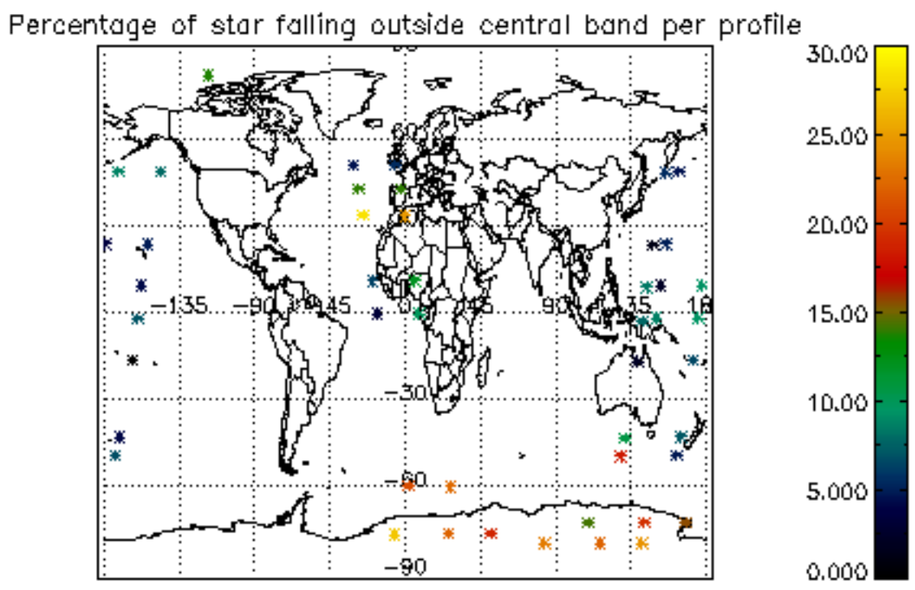

Spectrometer B CCD 2
Dark charge [e]
5600
5400
5200
5000
4800
4600
Upper
Middle
Lower
00:00.00 06/07/2010
04:00.00 06/07/2010
08:00.00 06/07/2010
12:00.00 06/07/2010
16:00.00 06/07/2010
20:00.00 06/07/2010
00:00.00 07/07/2010
Time

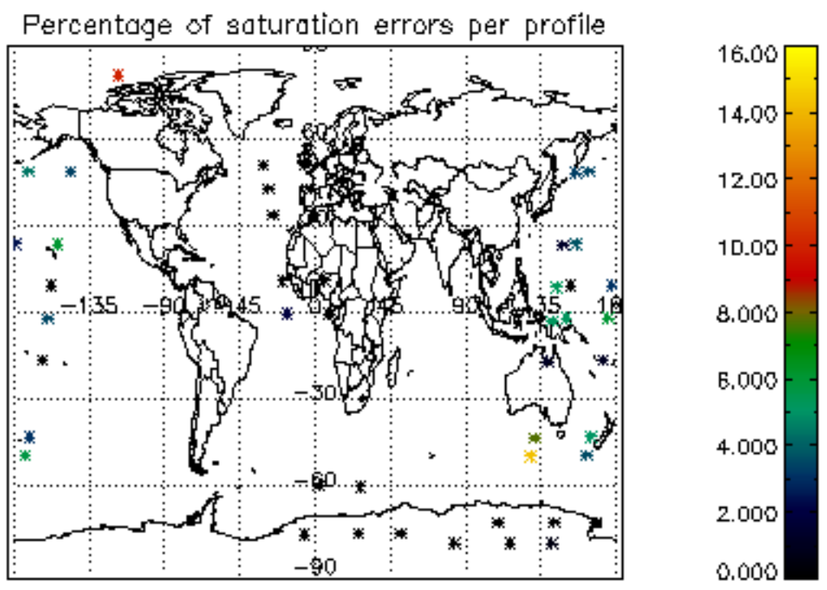

Photometers
Dark charge [e]
3000
2950
2900
2850
2800
2750
2700
2650
2600
FPA
FPB
00:00.00 06/07/2010
04:00.00 06/07/2010
08:00.00 06/07/2010
12:00.00 06/07/2010
16:00.00 06/07/2010
20:00.00 06/07/2010
00:00.00 07/07/2010
Time


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:
100
80
60
40
20
0
value (%)
00:00.00 06/07/2010
04:00.00 06/07/2010
08:00.00 06/07/2010
12:00.00 06/07/2010
16:00.00 06/07/2010
20:00.00 06/07/2010
00:00.00 07/07/2010
Time

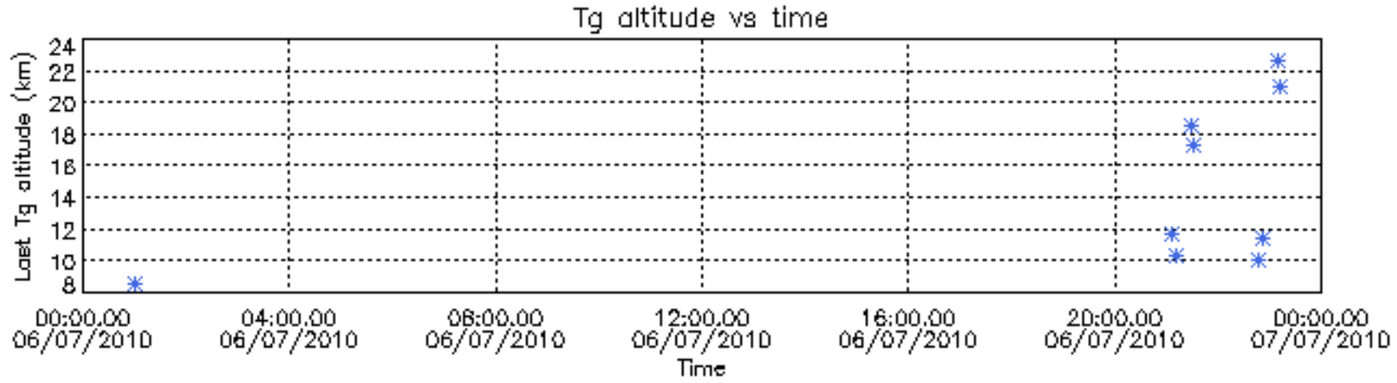

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

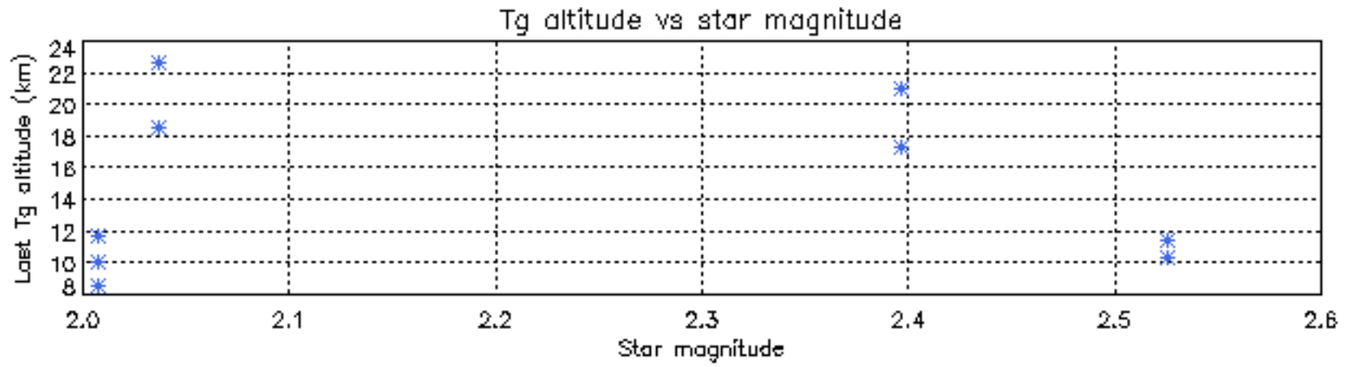

Percentage of datation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

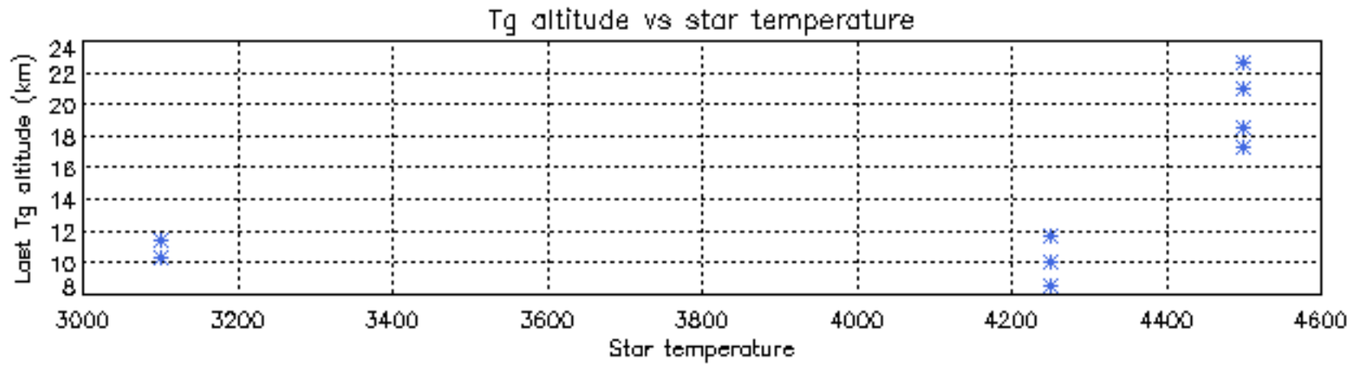

Percentage of star falling outside central band per profile
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
16.00
14.00
12.00
10.00
8.000
6.000
4.000
2.000
0.000
−135
−90
−30
−60
−90

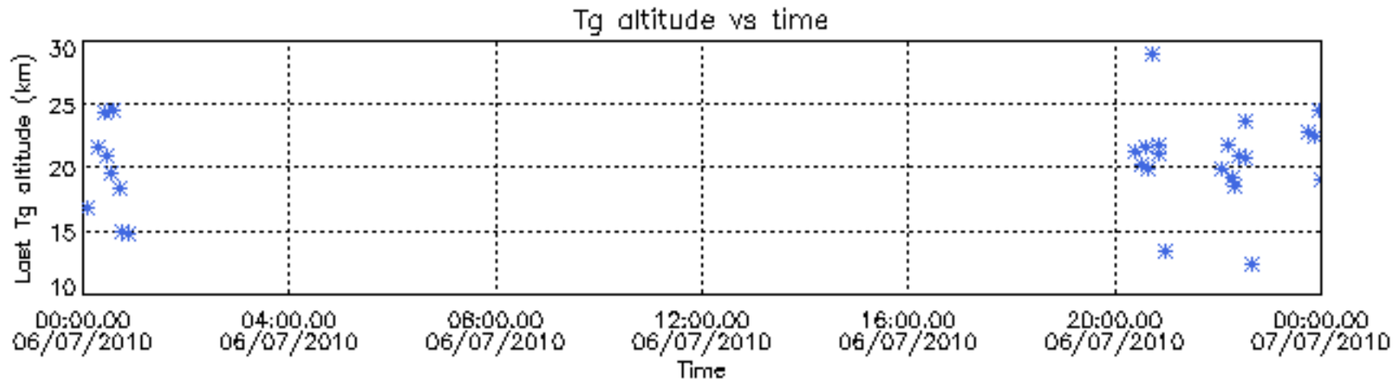
Tangent altitude at which the star is lost

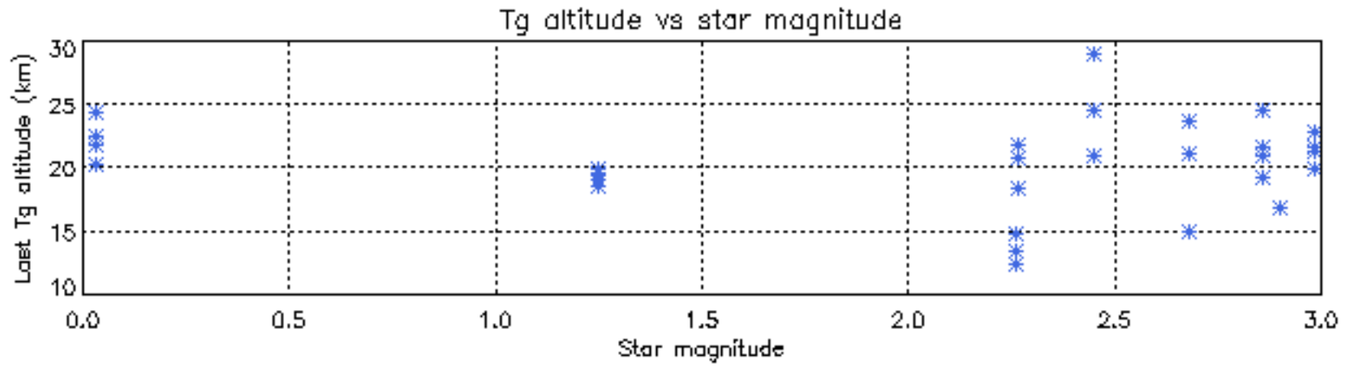


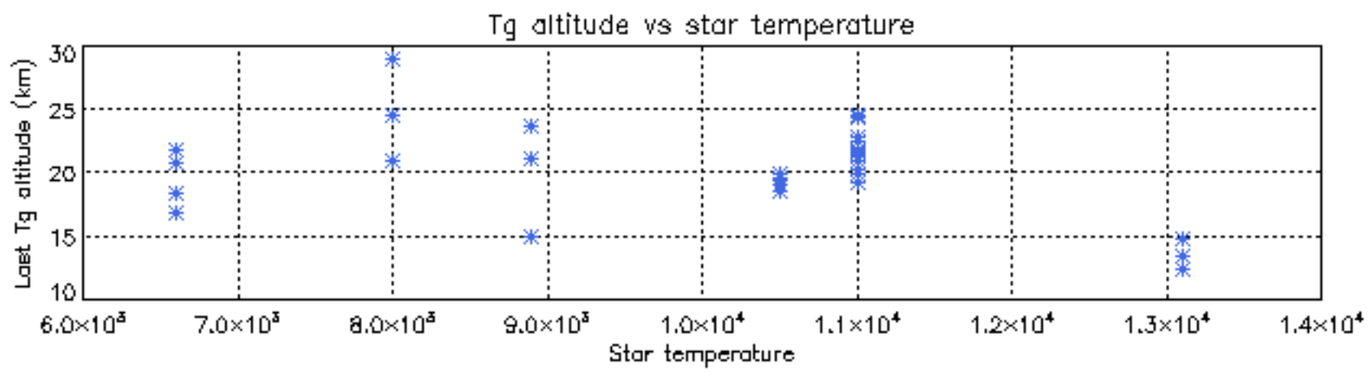


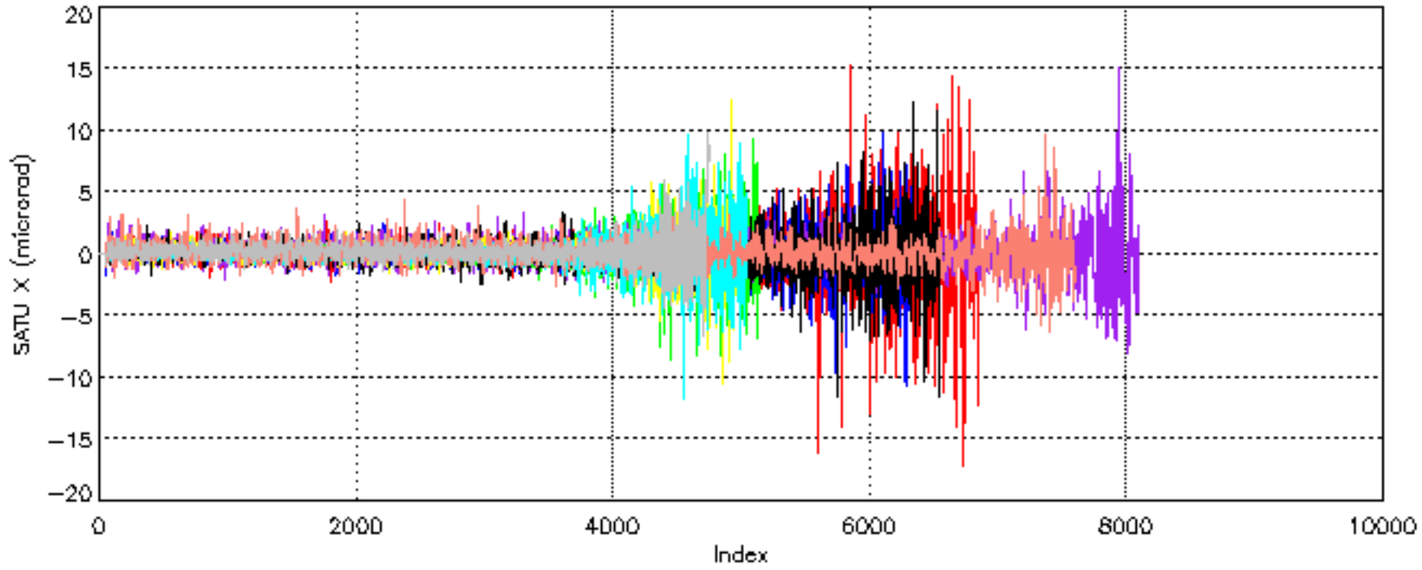


Tangent altitude at which the star is lost





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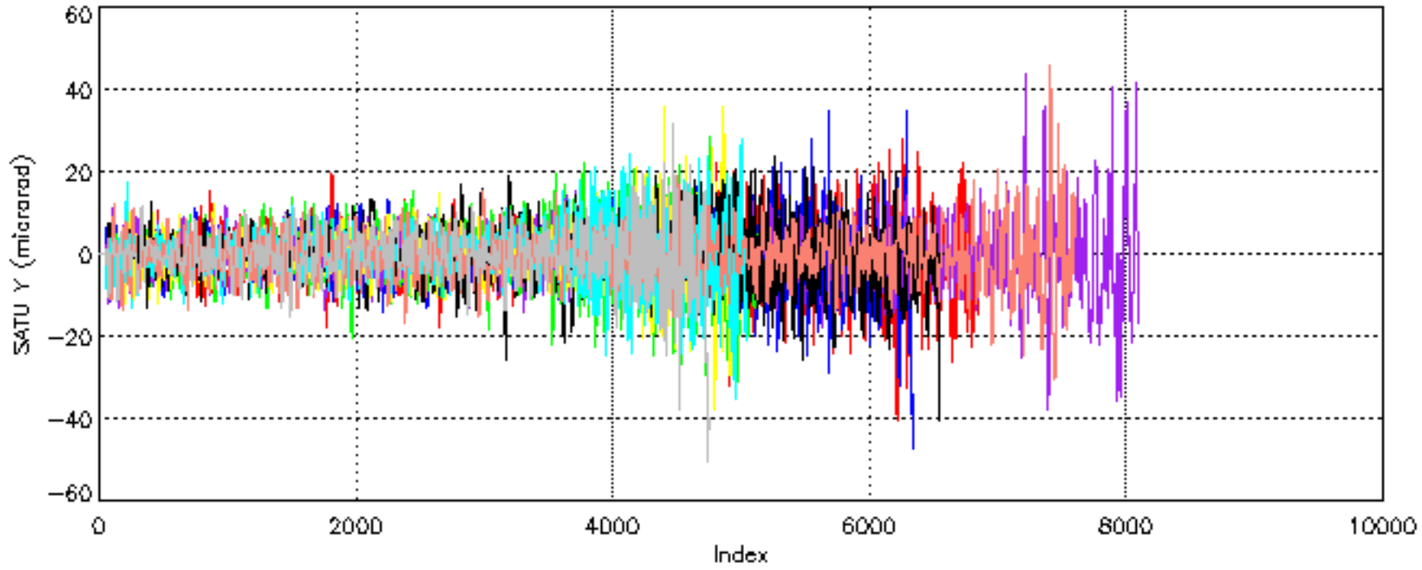
−10
−15
−20
SATU X (microrad)
0
2000
4000
6000
8000
10000
Index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10000
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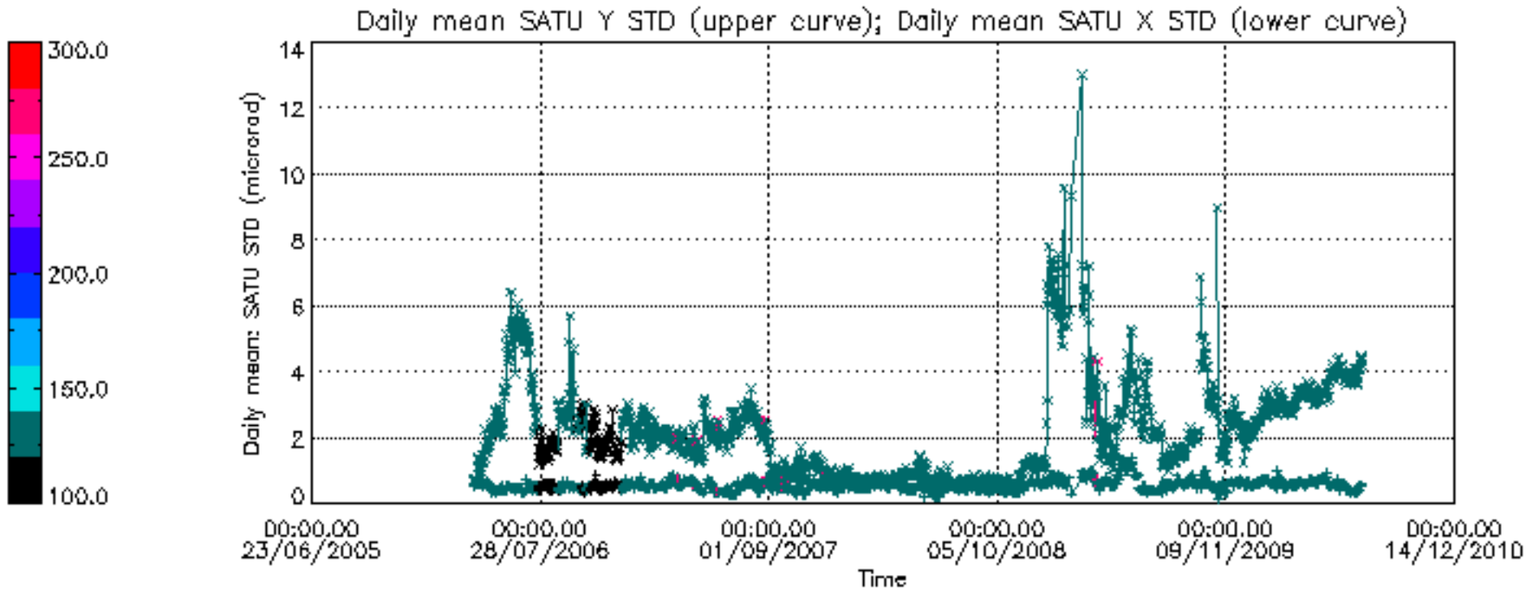
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250.0
200.0
150.0
100.0
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
00:00.00
23/06/2005
00:00.00
28/07/2006
00:00.00
01/09/2007
00:00.00
05/10/2008
00:00.00
09/11/2009
00:00.00
14/12/2010
Time

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   4; 2650.3; 01-JUL-2010 11:25:10; Bright;  45.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  90;   0;43578
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   5;-1351.9; 02-JUL-2010 04:45:03; Dark  ;  61.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 122;   0;43588
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   8;  112.1; 02-JUL-2010 05:09:27; Dark  ;  61.0;   84;   Alp Phe  ; 2.40;  4500;occ; 122;   0;43589
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   7; 3772.7; 02-JUL-2010 21:15:51; Bright;  48.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  96;   0;43598
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  10; 4419.7; 02-JUL-2010 21:26:38; Dark  ;  69.5;   53; 43Bet And  ; 2.05;  3300;occ; 139;   0;43598
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  10; 2902.2; 02-JUL-2010 22:41:57; Bright;  50.0;  144; 18Del Cyg  ; 2.86; 11000;occ; 100;   0;43599
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  13; 3772.1; 02-JUL-2010 22:56:26; Bright;  48.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  97;   0;43599
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  15; 4265.0; 02-JUL-2010 23:04:39; Bright;  53.0;   73; 57Gam1And  ; 2.26; 13100;occ; 106;   0;43599
  16; 4419.6; 02-JUL-2010 23:07:14; Dark  ;  74.0;   53; 43Bet And  ; 2.05;  3300;occ; 148;   0;43599
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   3;  123.3; 02-JUL-2010 23:36:14; Dark  ;  49.5;   84;   Alp Phe  ; 2.40;  4500;occ;  99;   0;43600
   4;  510.5; 02-JUL-2010 23:42:41; Dark  ;  53.5;   63;   Bet Gru  ; 2.15;  2800;occ; 107;   0;43600
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   6;  802.4; 02-JUL-2010 23:47:33; Dark  ;  57.0;  172;   Gam Gru  ; 3.00; 13100;occ; 114;   0;43600
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  12; 3326.7; 03-JUL-2010 00:29:37; Bright;  47.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  94;   0;43600
  13; 3771.5; 03-JUL-2010 00:37:02; Bright;  49.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  98;   0;43600
  14; 3869.4; 03-JUL-2010 00:38:40; Bright;  63.0;  110; 37Del Cas  ; 2.68;  8900;occ; 126;   0;43600
  15; 4264.7; 03-JUL-2010 00:45:15; Bright;  66.0;   73; 57Gam1And  ; 2.26; 13100;occ; 132;   0;43600
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   4; 3125.1; 02-JUL-2010 07:40:16; Bright;  57.5;   19; 50Alp Cyg  ; 1.25; 10500;occ; 115;   0;43590
   5; 3333.5; 02-JUL-2010 07:43:45; Bright;  44.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  88;   0;43590
   6; 3777.0; 02-JUL-2010 07:51:08; Bright;  49.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  98;   0;43590
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  11; 5516.5; 02-JUL-2010 08:20:07; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;43590
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  12; 5895.1; 02-JUL-2010 10:07:02; Dark  ;  72.0;   52; 16Bet Cet  ; 2.04;  4500;occ; 144;   0;43591
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  16; 6830.0; 02-JUL-2010 10:22:37; Dark  ;  56.0;  172;   Gam Gru  ; 3.00; 13100;occ; 112;   0;43592
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  13; 6151.9; 02-JUL-2010 11:51:55; Dark ; 49.0;   84;   Alp Phe ; 2.40; 4500;occ; 98;   0;43593
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  16; 6831.2; 02-JUL-2010 12:03:14; Dark ; 56.0; 172;   Gam Gru ; 3.00; 13100;occ; 112;   0;43593
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   5; 3331.3; 02-JUL-2010 12:45:30; Bright; 43.0;   89; 5Alp Cep ; 2.45; 8000;occ; 86;   0;43593
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   9;  528.0; 04-JUL-2010 05:53:45; Dark  ;  52.5;   63;   Bet Gru  ; 2.15;  2800;occ; 105;   0;43618
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   4;  670.6; 04-JUL-2010 22:42:07; Dark  ;  80.5;   18; 24Alp PsA  ; 1.17;  9700;occ; 161;   0;43628
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   6;-1017.7; 07-JUL-2010 05:33:44; Dark ; 52.0;   94; 92Alp Cet ; 2.53; 3100;occ; 104;   0;43660
   7; -450.5; 07-JUL-2010 05:43:12; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;43660
   8;   2.4; 07-JUL-2010 05:50:44; Dark ; 66.0;   52; 16Bet Cet ; 2.04; 4500;occ; 132;   0;43660
   9; 188.8; 07-JUL-2010 05:53:51; Dark ; 55.0;   84;   Alp Phe ; 2.40; 4500;occ; 110;   0;43661
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  13; 4257.8; 07-JUL-2010 23:47:39; Bright; 57.0;   73; 57Gam1And ; 2.26; 13100;occ; 114;   0;43671
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   7; 2188.6; 08-JUL-2010 02:34:22; Bright;  44.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  89;   0;43673
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   9; 2183.6; 09-JUL-2010 02:02:40; Bright;  44.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  89;   0;43687
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   5;  709.6; 10-JUL-2010 01:06:29; Dark  ;  59.0;   31;   Alp Gru  ; 1.73; 15200;occ; 118;   0;43701
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   7;  898.6; 10-JUL-2010 01:09:38; Dark  ;  37.0;  172;   Gam Gru  ; 3.00; 13100;occ;  74;   0;43701
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   9; 1503.3; 10-JUL-2010 01:19:43; Bright;  43.0;  155; 41Pi  Sgr  ; 2.90;  6600;occ;  86;   0;43701
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  20; 5098.9; 16-JUL-2010 02:31:09; Dark  ;  54.5;   94; 92Alp Cet  ; 2.53;  3100;occ; 109;   0;43787
  21; 5282.5; 16-JUL-2010 02:34:12; Dark  ;  45.5;  165; 34Gam Eri  ; 2.95;  3200;occ;  91;   0;43787
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   6;-1566.6; 16-JUL-2010 04:01:15; Dark  ;  44.0;  150; 44Zet Per  ; 2.89; 28000;occ;  88;   0;43788
   7;-1412.5; 16-JUL-2010 04:03:49; Dark  ;  45.5;  146; 25Eta Tau  ; 2.87; 15200;occ;  91;   0;43788
   8;-1317.9; 16-JUL-2010 04:05:24; Dark  ;  46.0;   13; 87Alp Tau  ; 0.87;  3800;occ;  92;   0;43788
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  15;  680.9; 16-JUL-2010 04:38:43; Dark  ;  53.0;   63;   Bet Gru  ; 2.15;  2800;occ; 106;   0;43789
  16;  776.7; 16-JUL-2010 04:40:19; Dark  ;  49.5;   31;   Alp Gru  ; 1.73; 15200;occ;  99;   0;43789
  17;  969.8; 16-JUL-2010 04:43:32; Dark  ;  50.0;  172;   Gam Gru  ; 3.00; 13100;occ; 100;   0;43789
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  19; 2158.3; 16-JUL-2010 05:03:20; Bright;  38.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  77;   0;43789
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   9; 4295.8; 17-JUL-2010 11:49:45; Bright;  48.0;   79; 26Bet Per  ; 2.31; 13100;occ;  96;   0;43807
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  19; 4488.6; 26-JUL-2010 02:06:37; Dark  ;  53.0;  150; 44Zet Per  ; 2.89; 28000;occ; 106;   0;43930
  20; 4662.6; 26-JUL-2010 02:09:31; Dark  ;  49.5;  146; 25Eta Tau  ; 2.87; 15200;occ;  99;   0;43930
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  21; 6932.8; 29-JUL-2010 09:35:30; Dark  ;  46.5;   31;   Alp Gru  ; 1.73; 15200;occ;  93;   0;43978
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   8; 4199.9; 30-JUL-2010 20:02:32; Bright; 55.0;   6; 13Alp Aur ; 0.08; 3400;occ; 110;   0;43998
   9; 4316.0; 30-JUL-2010 20:04:28; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95;   0;43998
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   6; 3099.6; 30-JUL-2010 21:24:48; Bright;  42.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  84;   0;43999
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   9; 4315.9; 30-JUL-2010 21:45:04; Bright;  45.5;  149; 45Eps Per  ; 2.89; 30000;occ;  91;   0;43999
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  11; 4634.8; 30-JUL-2010 21:50:23; Dark  ;  41.0;  176; 23Zet Tau  ; 3.02; 22000;occ;  82;   0;43999
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   9; 2698.1; 31-JUL-2010 02:19:54; Bright;  36.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  72;   0;44002
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