

GOMOS Daily Report 21-MAY-2007

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	23MAY2007 05:38:34
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (21MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

2. Summary of products arrived in PCF (Product Control Facility)

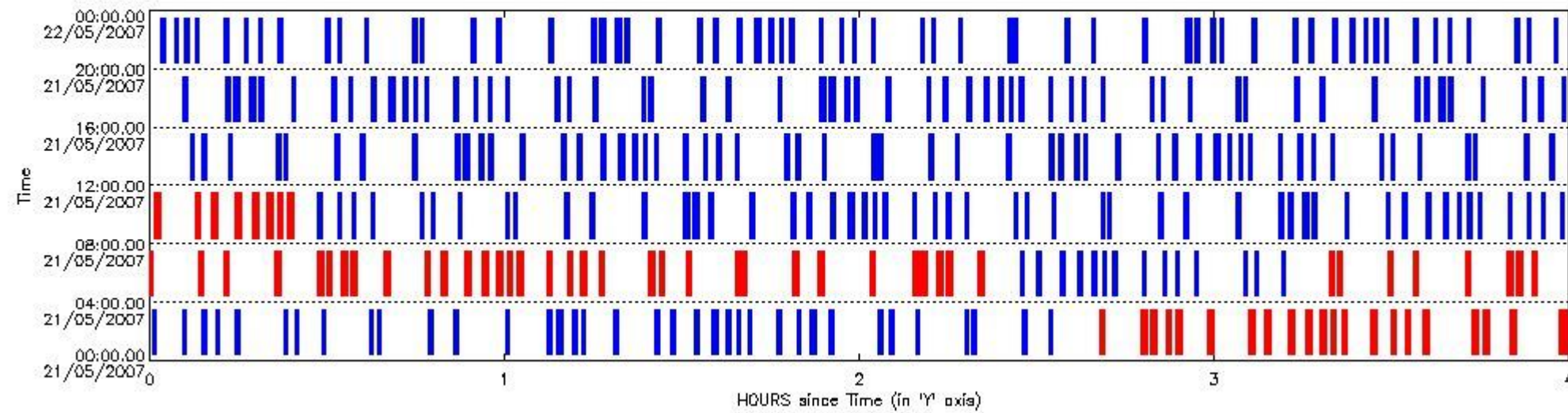
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



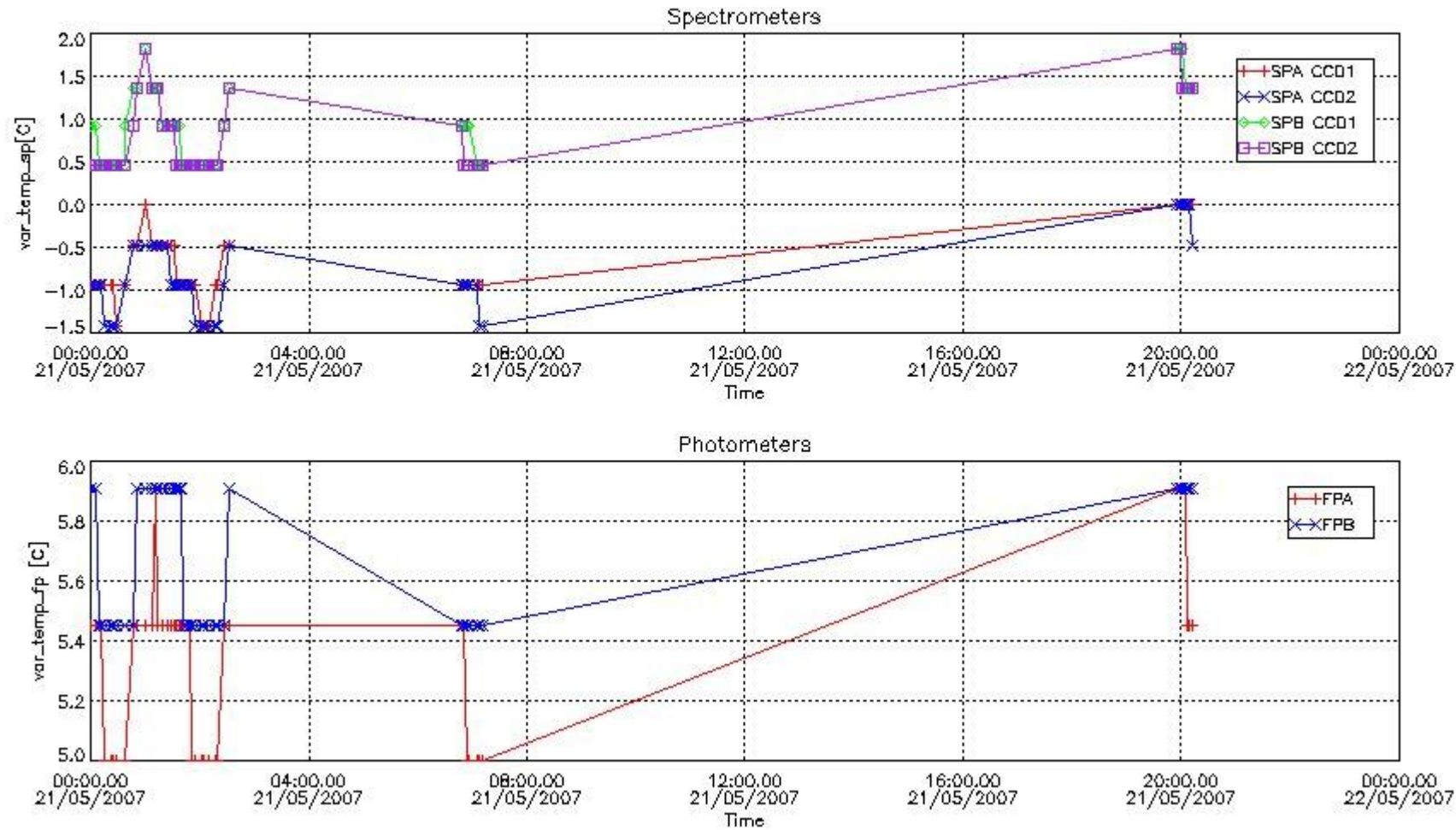
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
21-MAY-2007 02:40:34	16BetCet	52	27297
21-MAY-2007 02:47:40	24AlpPsA	18	27297
21-MAY-2007 02:49:13	DSA1035	0	27297
21-MAY-2007 02:51:49	BetGru	63	27297
21-MAY-2007 02:53:25	AlpGru	31	27298
21-MAY-2007 02:58:53	AlpPav	45	27298
21-MAY-2007 03:05:50	BetAra	141	27298
21-MAY-2007 03:08:32	TheSco	40	27298
21-MAY-2007 03:12:32	26EpsSco	75	27298
21-MAY-2007 03:15:29	21AlpSco	16	27298
21-MAY-2007 03:17:57	8Bet1Sco	97	27298
21-MAY-2007 03:19:43	9Alp2Lib	122	27298
21-MAY-2007 03:21:30	27BetLib	104	27298
21-MAY-2007 03:26:30	24AlpSer	102	27298
21-MAY-2007 03:29:54	16AlpBoo	3	27298

21-MAY-2007 03:32:12		83	27298
21-MAY-2007 03:35:21	27GamBoo	180	27298
21-MAY-2007 03:43:41	14EtaDra	119	27298
21-MAY-2007 03:45:34	7BetUMi	60	27298
21-MAY-2007 03:50:05	1AlpUMi	49	27298
21-MAY-2007 03:58:16	27GamCas	76	27298
21-MAY-2007 03:59:29	18AlpCas	68	27298
21-MAY-2007 04:08:05	21AlpAnd	58	27298
21-MAY-2007 04:12:24	88GamPeg	140	27298
21-MAY-2007 04:21:11	16BetCet	52	27298
21-MAY-2007 04:28:17	24AlpPsA	18	27298
21-MAY-2007 04:29:49	DSA1035	0	27298
21-MAY-2007 04:32:25	BetGru	63	27298
21-MAY-2007 04:34:02	AlpGru	31	27299
21-MAY-2007 04:39:30	AlpPav	45	27299
21-MAY-2007 04:46:26	BetAra	141	27299
21-MAY-2007 04:49:08	TheSco	40	27299
21-MAY-2007 04:53:09	26EpsSco	75	27299
21-MAY-2007 04:56:05	21AlpSco	16	27299
21-MAY-2007 04:58:33	8Bet1Sco	97	27299
21-MAY-2007 05:00:20	9Alp2Lib	122	27299
21-MAY-2007 05:02:06	27BetLib	104	27299
21-MAY-2007 05:07:06	24AlpSer	102	27299
21-MAY-2007 05:10:30	16AlpBoo	3	27299
21-MAY-2007 05:12:48		83	27299
21-MAY-2007 05:15:57	27GamBoo	180	27299
21-MAY-2007 05:24:16	14EtaDra	119	27299
21-MAY-2007 05:26:10	7BetUMi	60	27299
21-MAY-2007 05:30:41	1AlpUMi	49	27299
21-MAY-2007 05:38:52	27GamCas	76	27299
21-MAY-2007 05:40:05	18AlpCas	68	27299
21-MAY-2007 05:48:41	21AlpAnd	58	27299
21-MAY-2007 05:53:00	88GamPeg	140	27299
21-MAY-2007 06:01:47	16BetCet	52	27299
21-MAY-2007 06:08:54	24AlpPsA	18	27299
21-MAY-2007 06:10:26	DSA1035	0	27299
21-MAY-2007 06:13:02	BetGru	63	27299
21-MAY-2007 06:14:38	AlpGru	31	27300
21-MAY-2007 06:20:06	AlpPav	45	27300
21-MAY-2007 07:19:28	27GamCas	76	27300
21-MAY-2007 07:20:41	18AlpCas	68	27300
21-MAY-2007 07:29:17	21AlpAnd	58	27300
21-MAY-2007 07:33:37	88GamPeg	140	27300
21-MAY-2007 07:42:23	16BetCet	52	27300
21-MAY-2007 07:49:31	24AlpPsA	18	27300
21-MAY-2007 07:51:02	DSA1035	0	27300
21-MAY-2007 07:53:39	BetGru	63	27300
21-MAY-2007 08:00:43	AlpPav	45	27301
21-MAY-2007 08:07:39	BetAra	141	27301
21-MAY-2007 08:10:21	TheSco	40	27301
21-MAY-2007 08:14:21	26EpsSco	75	27301
21-MAY-2007 08:17:17	21AlpSco	16	27301
21-MAY-2007 08:19:45	8Bet1Sco	97	27301
21-MAY-2007 08:21:32	9Alp2Lib	122	27301
21-MAY-2007 08:23:18	27BetLib	104	27301

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070521_000025_000000382058_00188_27296_4139.N1	21-MAY-2007 00:00:25	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	27296	No
2	GOM_TRA_1PNPDE20070521_000526_000000412058_00188_27296_4140.N1	21-MAY-2007 00:05:26	Bright	40.500	102	24Alp Ser	2.6000	4250.0	81	27296	No
3	GOM_TRA_1PNPDE20070521_000849_000000372058_00188_27296_4141.N1	21-MAY-2007 00:08:49	Bright	36.500	3	16Alp Boo	-0.050000	4250.0	73	27296	No
4	GOM_TRA_1PNPDE20070521_001107_000000362058_00188_27296_4142.N1	21-MAY-2007 00:11:07	Bright	36.000	83		2.3780	11000.	72	27296	No
5	GOM_TRA_1PNPDE20070521_001417_000000532058_00188_27296_4143.N1	21-MAY-2007 00:14:17	Bright	53.000	180	27Gam Boo	3.0400	8000.0	106	27296	No
6	GOM_TRA_1PNPDE20070521_002237_000000422058_00188_27296_4144.N1	21-MAY-2007 00:22:37	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	27296	No
7	GOM_TRA_1PNPDE20070521_002430_000000372058_00188_27296_4145.N1	21-MAY-2007 00:24:30	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27296	No
8	GOM_TRA_1PNPDE20070521_002900_000000352058_00188_27296_4146.N1	21-MAY-2007 00:29:00	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27296	No
9	GOM_TRA_1PNPDE20070521_003712_000000352058_00188_27296_4147.N1	21-MAY-2007 00:37:12	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	27296	No
10	GOM_TRA_1PNPDE20070521_003824_000000352058_00188_27296_4148.N1	21-MAY-2007 00:38:24	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	27296	No
11	GOM_TRA_1PNPDE20070521_004700_000000452058_00188_27296_4149.N1	21-MAY-2007 00:47:00	Twilight	45.000	58	21Alp And	2.0730	11000.	90	27296	No
12	GOM_TRA_1PNPDE20070521_005119_000000432058_00188_27296_4150.N1	21-MAY-2007 00:51:19	Dark	43.000	140	88Gam Peg	2.8340	26000.	86	27296	No
13	GOM_TRA_1PNPDE20070521_010005_000000452058_00188_27296_4308.N1	21-MAY-2007 01:00:05	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	27296	Yes
14	GOM_TRA_1PNPDE20070521_010711_000000522058_00188_27296_4309.N1	21-MAY-2007 01:07:11	Dark	51.500	18	24Alp PsA	1.1660	9700.0	103	27296	No
15	GOM_TRA_1PNPDE20070521_011119_000000572058_00188_27296_4310.N1	21-MAY-2007 01:11:19	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	27296	No
16	GOM_TRA_1PNPDE20070521_011255_000000452058_00189_27297_4311.N1	21-MAY-2007 01:12:55	Dark	44.500	31	Alp Gru	1.7340	15200.	89	27297	No
17	GOM_TRA_1PNPDE20070521_011823_000000412058_00189_27297_4312.N1	21-MAY-2007 01:18:23	Dark	40.500	45	Alp Pav	1.9400	26000.	81	27297	No
18	GOM_TRA_1PNPDE20070521_012521_000000442058_00189_27297_4313.N1	21-MAY-2007 01:25:21	Straylight	43.500	141	Bet Ara	2.8400	4600.0	87	27297	No
19	GOM_TRA_1PNPDE20070521_012803_000000492058_00189_27297_4314.N1	21-MAY-2007 01:28:03	Straylight	49.000	40	The Sco	1.8590	7100.0	98	27297	No
20	GOM_TRA_1PNPDE20070521_013203_000000482058_00189_27297_4315.N1	21-MAY-2007 01:32:03	Twilight	48.000	75	26Eps Sco	2.2910	4250.0	96	27297	No
21	GOM_TRA_1PNPDE20070521_013500_000000572058_00189_27297_4316.N1	21-MAY-2007 01:35:00	Twilight	57.000	16	21Alp Sco	1.0200	3000.0	114	27297	No
22	GOM_TRA_1PNPDE20070521_013728_000000432058_00189_27297_4317.N1	21-MAY-2007 01:37:28	Bright	43.000	97	8Bet1Sco	2.5610	30000.	86	27297	No
23	GOM_TRA_1PNPDE20070521_013915_000000372058_00189_27297_4318.N1	21-MAY-2007 01:39:15	Bright	36.500	122	9Alp2Lib	2.7470	9700.0	73	27297	No
24	GOM_TRA_1PNPDE20070521_014101_000000382058_00189_27297_4319.N1	21-MAY-2007 01:41:01	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	27297	No
25	GOM_TRA_1PNPDE20070521_014602_000000412058_00189_27297_4320.N1	21-MAY-2007 01:46:02	Bright	40.500	102	24Alp Ser	2.6000	4250.0	81	27297	No
26	GOM_TRA_1PNPDE20070521_014925_000000352058_00189_27297_4321.N1	21-MAY-2007 01:49:25	Bright	35.000	3	16Alp Boo	-0.050000	4250.0	70	27297	No
27	GOM_TRA_1PNPDE20070521_015143_000000542058_00189_27297_4322.N1	21-MAY-2007 01:51:43	Bright	54.000	83		2.3780	11000.	108	27297	No
28	GOM_TRA_1PNPDE20070521_015452_000000392058_00189_27297_4323.N1	21-MAY-2007 01:54:52	Bright	39.000	180	27Gam Boo	3.0400	8000.0	78	27297	No
29	GOM_TRA_1PNPDE20070521_020312_000000402058_00189_27297_4324.N1	21-MAY-2007 02:03:12	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	27297	No
30	GOM_TRA_1PNPDE20070521_020506_000000372058_00189_27297_4325.N1	21-MAY-2007 02:05:06	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27297	No
31	GOM_TRA_1PNPDE20070521_020936_000000352058_00189_27297_4326.N1	21-MAY-2007 02:09:36	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27297	No
32	GOM_TRA_1PNPDE20070521_021747_000000362058_00189_27297_4327.N1	21-MAY-2007 02:17:47	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	27297	No
33	GOM_TRA_1PNPDE20070521_021901_000000372058_00189_27297_4328.N1	21-MAY-2007 02:19:01	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	27297	No
34	GOM_TRA_1PNPDE20070521_022736_000000472058_00189_27297_4329.N1	21-MAY-2007 02:27:36	Twilight	47.000	58	21Alp And	2.0730	11000.	94	27297	No
35	GOM_TRA_1PNPDE20070521_023155_000000442058_00189_27297_4330.N1	21-MAY-2007 02:31:55	Dark	44.000	140	88Gam Peg	2.8340	26000.	88	27297	No
36	GOM_TRA_1PNPDE20070521_064749_000000412058_00192_27300_4686.N1	21-MAY-2007 06:47:49	Bright	40.500	102	24Alp Ser	2.6000	4250.0	81	27300	No
37	GOM_TRA_1PNPDE20070521_065113_000000352058_00192_27300_4687.N1	21-MAY-2007 06:51:13	Bright	35.000	3	16Alp Boo	-0.050000	4250.0	70	27300	No
38	GOM_TRA_1PNPDE20070521_065331_000000382058_00192_27300_4688.N1	21-MAY-2007 06:53:31	Bright	37.500	83		2.3780	11000.	75	27300	No
39	GOM_TRA_1PNPDE20070521_065640_000000352058_00192_27300_4689.N1	21-MAY-2007 06:56:40	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	27300	No
40	GOM_TRA_1PNPDE20070521_070459_000000412058_00192_27300_4690.N1	21-MAY-2007 07:04:59	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	27300	No
41	GOM_TRA_1PNPDE20070521_070653_000000372058_00192_27300_4691.N1	21-MAY-2007 07:06:53	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27300	No
42	GOM_TRA_1PNPDE20070521_071124_000000362058_00192_27300_4692.N1	21-MAY-2007 07:11:24	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27300	No
43	GOM_TRA_1PNPDE20070521_195444_000000522058_00200_27308_5084.N1	21-MAY-2007 19:54:44	Straylight	52.000	40	The Sco	1.8590	7100.0	104	27308	No
44	GOM_TRA_1PNPDE20070521_195843_000000472058_00200_27308_5085.N1	21-MAY-2007 19:58:43	Twilight	47.000	75	26Eps Sco	2.2910	4250.0	94	27308	No
45	GOM_TRA_1PNPDE20070521_200138_000000542058_00200_27308_5086.N1	21-MAY-2007 20:01:38	Twilight	53.500	16	21Alp Sco	1.0200	3000.0	107	27308	No
46	GOM_TRA_1PNPDE20070521_200405_000000432058_00200_27308_5087.N1	21-MAY-2007 20:04:05	Bright	42.500	97	8Bet1Sco	2.5610	30000.	85	27308	No
47	GOM_TRA_1PNPDE20070521_200552_000000372058_00200_27308_5088.N1	21-MAY-2007 20:05:52	Bright	36.500	122	9Alp2Lib	2.7470	9700.0	73	27308	No
48	GOM_TRA_1PNPDE20070521_200737_000000382058_00200_27308_5089.N1	21-MAY-2007 20:07:37	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	27308	No
49	GOM_TRA_1PNPDE20070521_201235_000000402058_00200_27308_5090.N1	21-MAY-2007 20:12:35	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	27308	No

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



4. Overview of dark signal processing per product

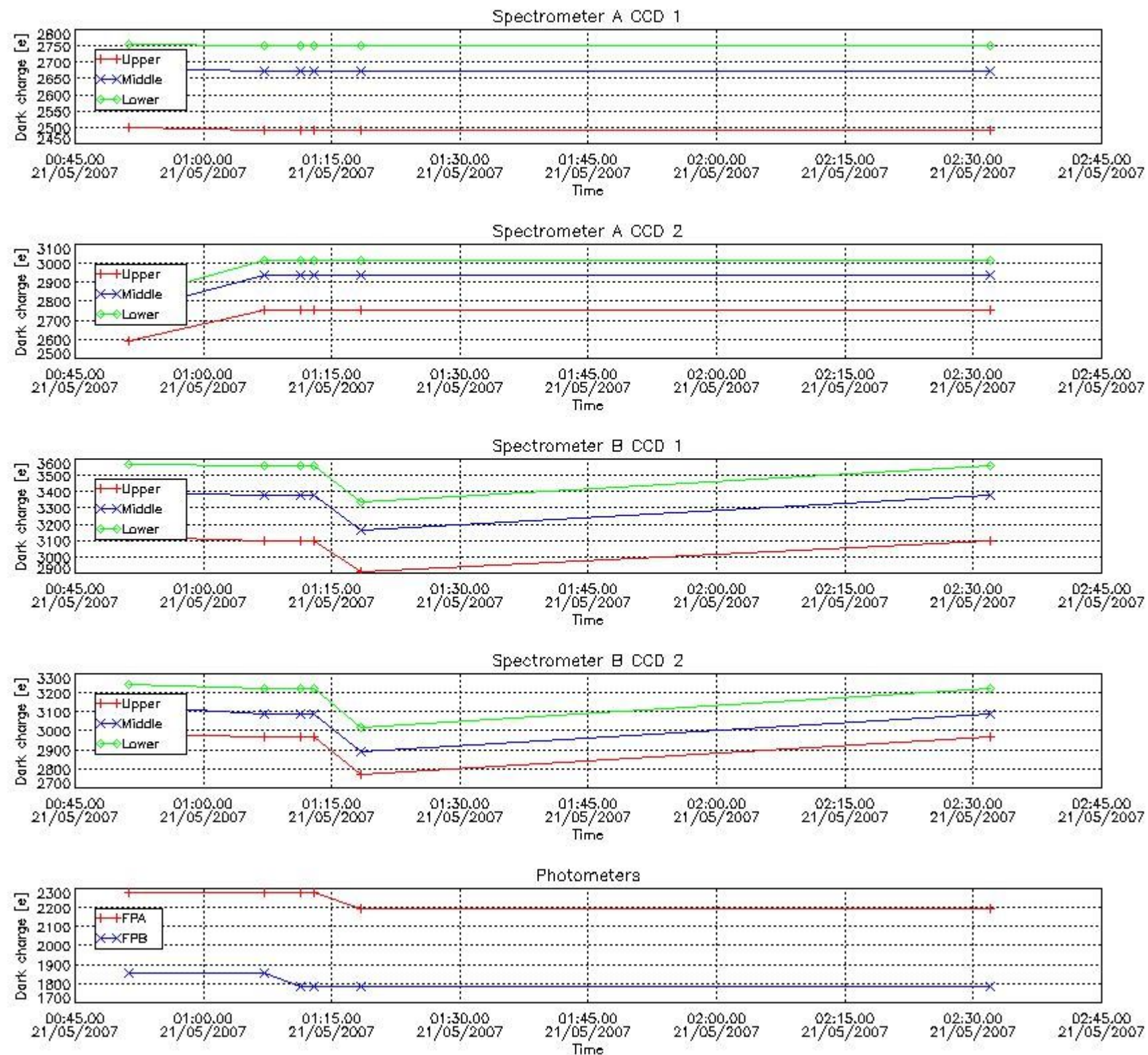
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20070521_064749_000000412058_00192_27300_4686.N1	DC map used
GOM_TRA_1PNPDE20070521_065113_000000352058_00192_27300_4687.N1	DC map used
GOM_TRA_1PNPDE20070521_065331_000000382058_00192_27300_4688.N1	DC map used
GOM_TRA_1PNPDE20070521_065640_000000352058_00192_27300_4689.N1	DC map used
GOM_TRA_1PNPDE20070521_070459_000000412058_00192_27300_4690.N1	DC map used
GOM_TRA_1PNPDE20070521_070653_000000372058_00192_27300_4691.N1	DC map used
GOM_TRA_1PNPDE20070521_071124_000000362058_00192_27300_4692.N1	DC map used
GOM_TRA_1PNPDE20070521_195444_000000522058_00200_27308_5084.N1	DC map used
GOM_TRA_1PNPDE20070521_195843_000000472058_00200_27308_5085.N1	DC map used
GOM_TRA_1PNPDE20070521_200138_000000542058_00200_27308_5086.N1	DC map used
GOM_TRA_1PNPDE20070521_200405_000000432058_00200_27308_5087.N1	DC map used
GOM_TRA_1PNPDE20070521_200552_000000372058_00200_27308_5088.N1	DC map used
GOM_TRA_1PNPDE20070521_200737_000000382058_00200_27308_5089.N1	DC map used
GOM_TRA_1PNPDE20070521_201235_000000402058_00200_27308_5090.N1	DC map used

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



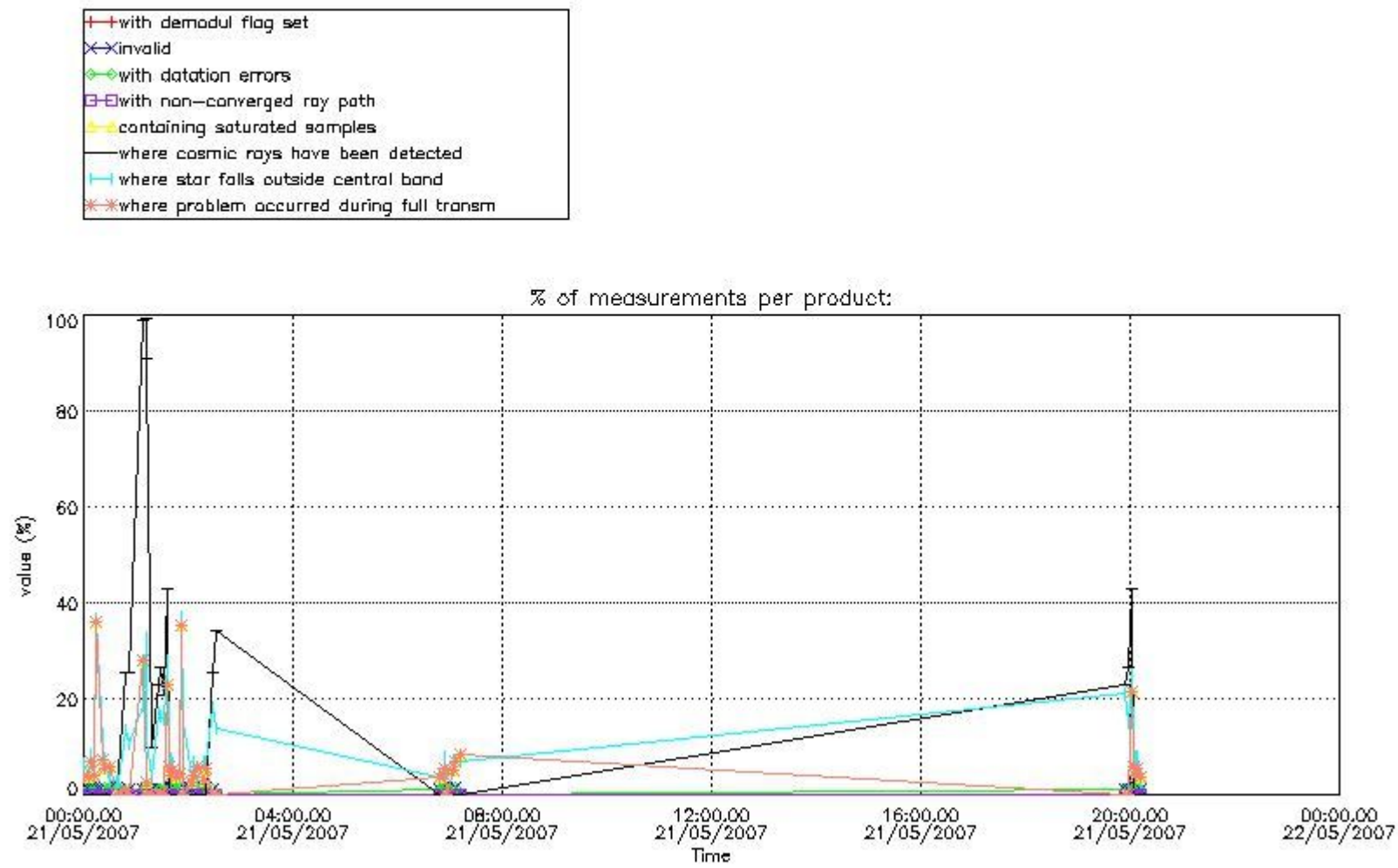
5. Demodulation flag and quality information monitoring

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.

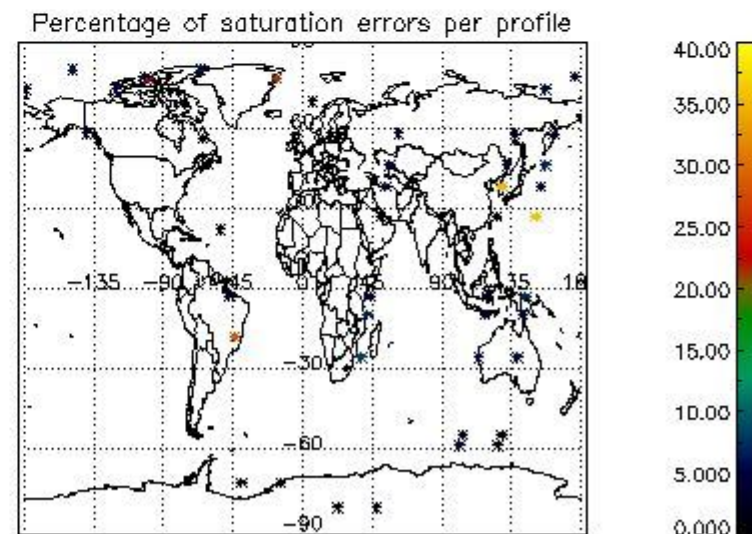
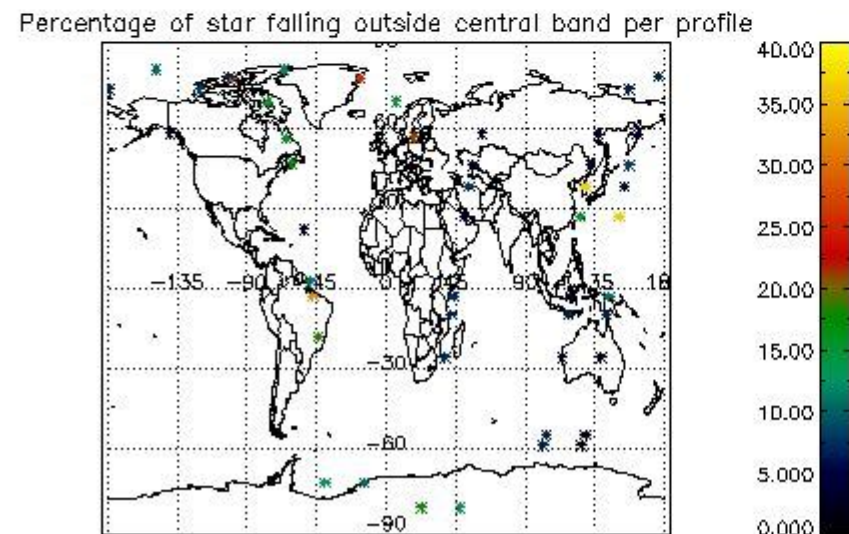
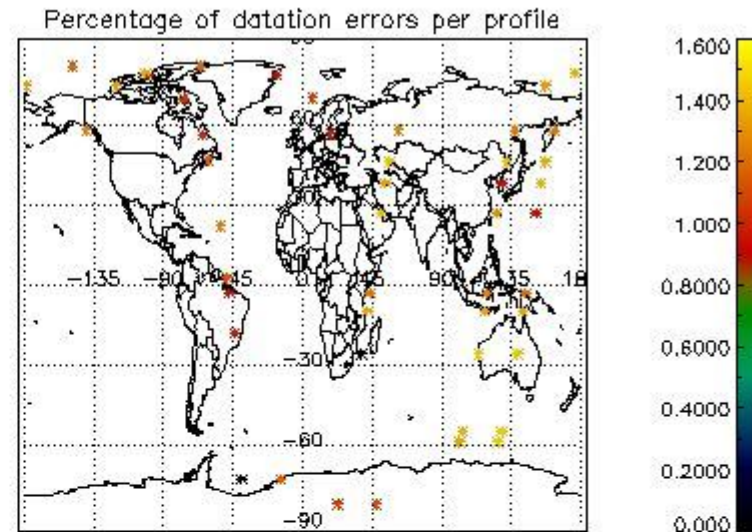
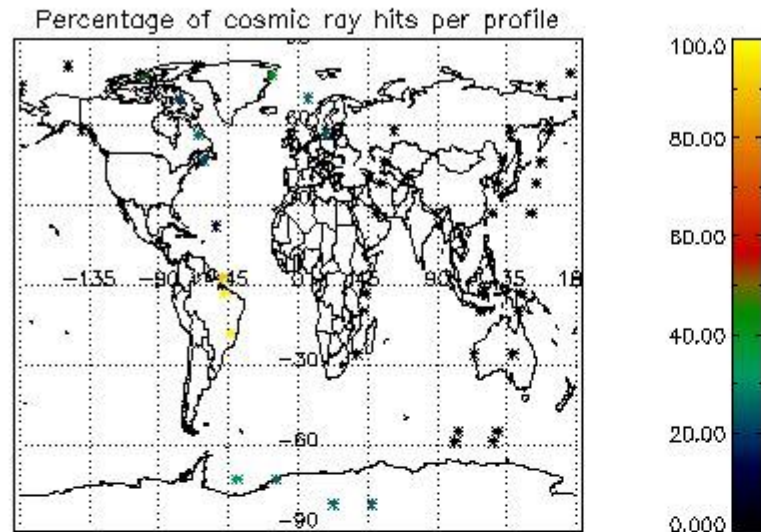
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.5833 %
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)



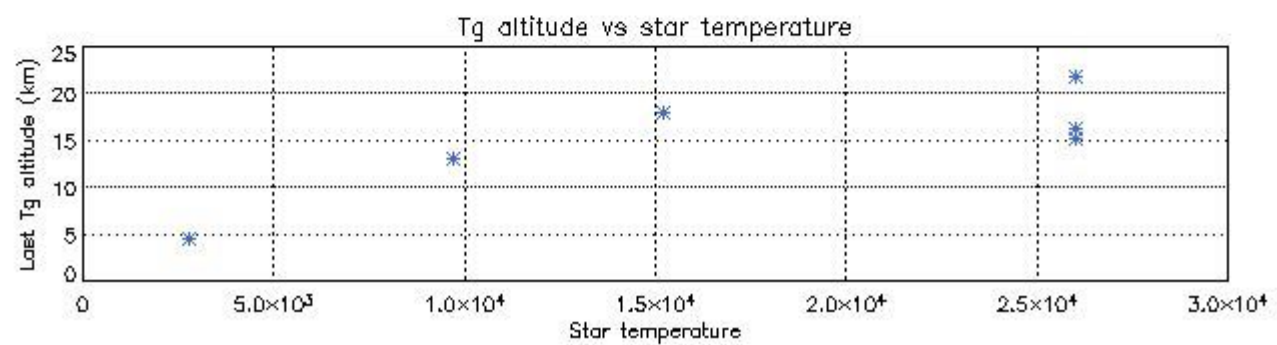
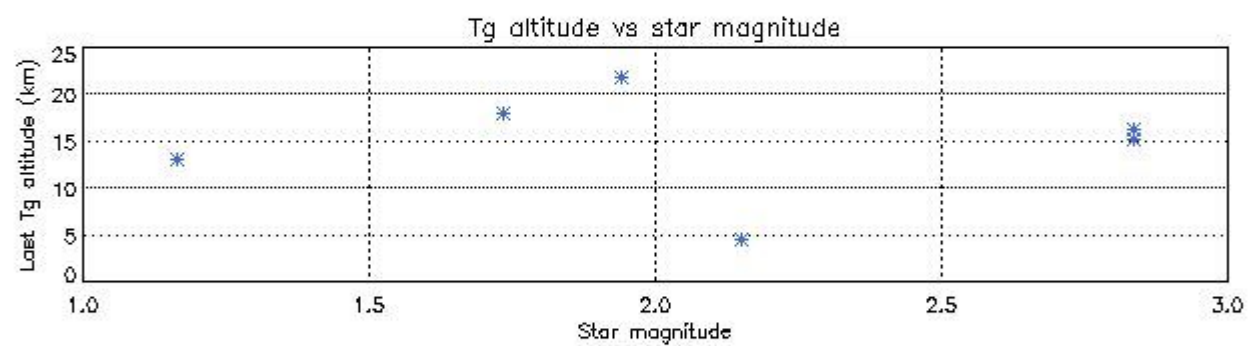
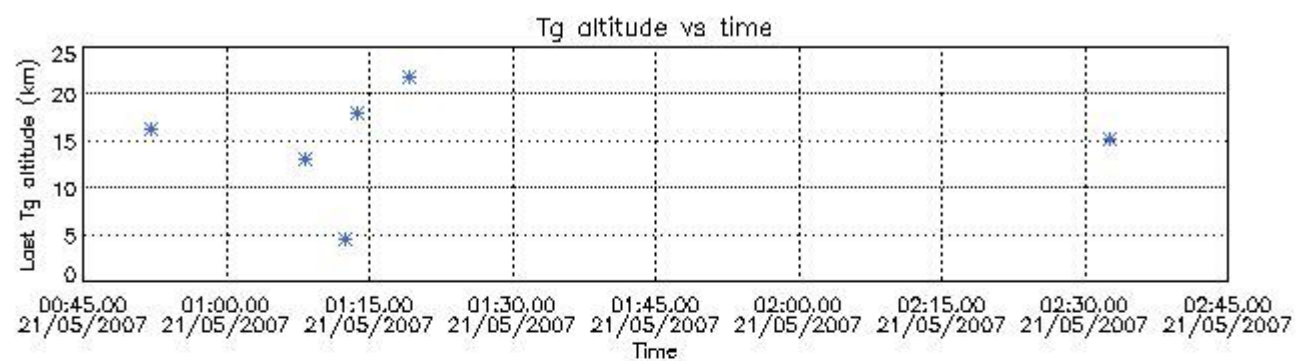
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.816	20.161	NaN
St. deviation:	5.8508	4.6664	NaN
Maximum:	21.877	26.615	NaN
Minimum:	4.5537	3.7258	NaN
Number of data:	6.0000	33.000	NaN

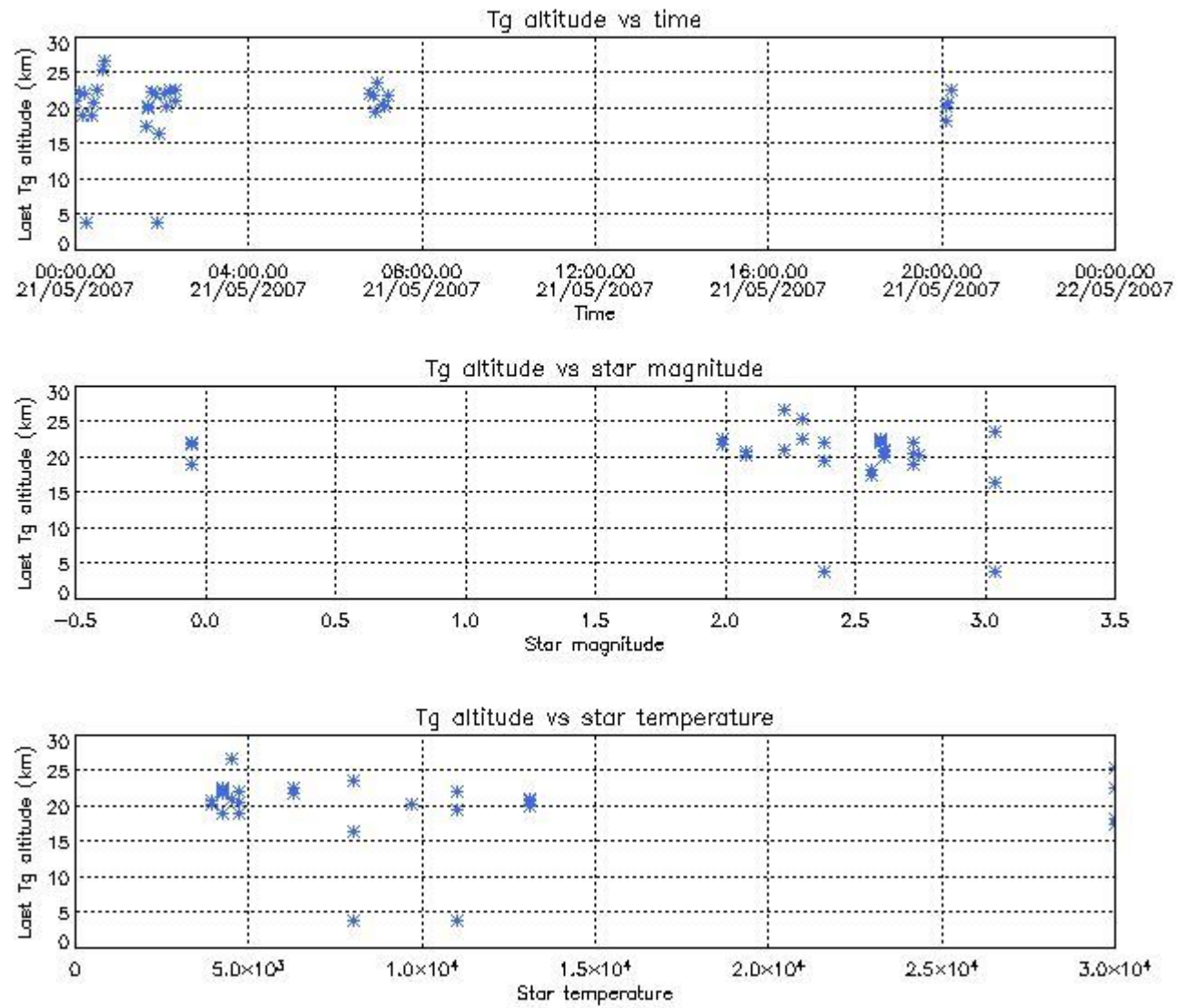
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

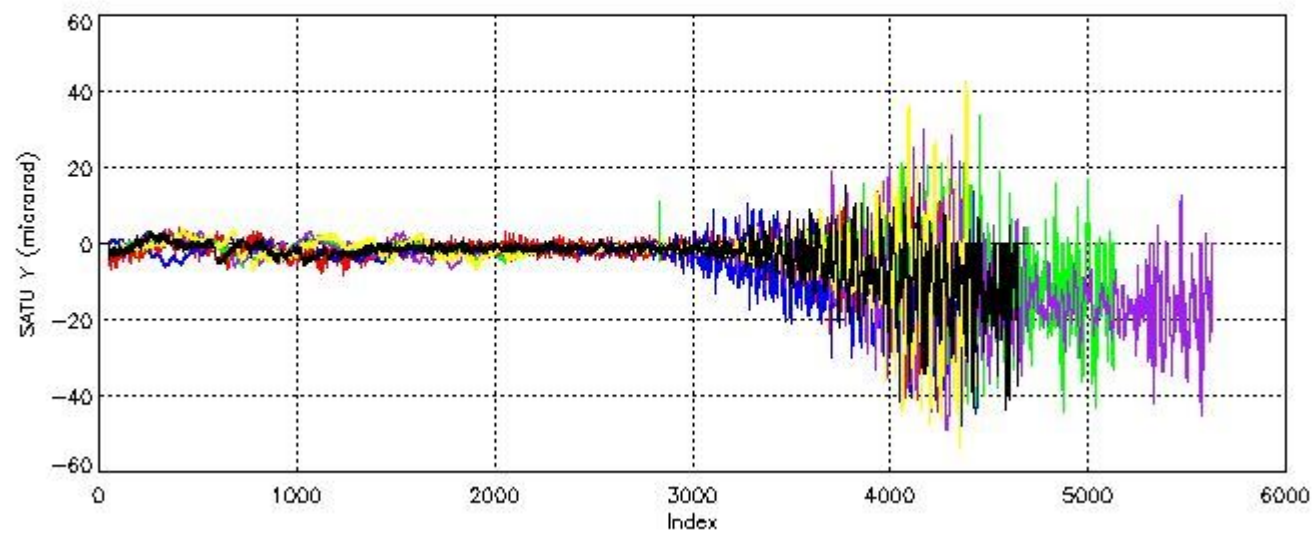
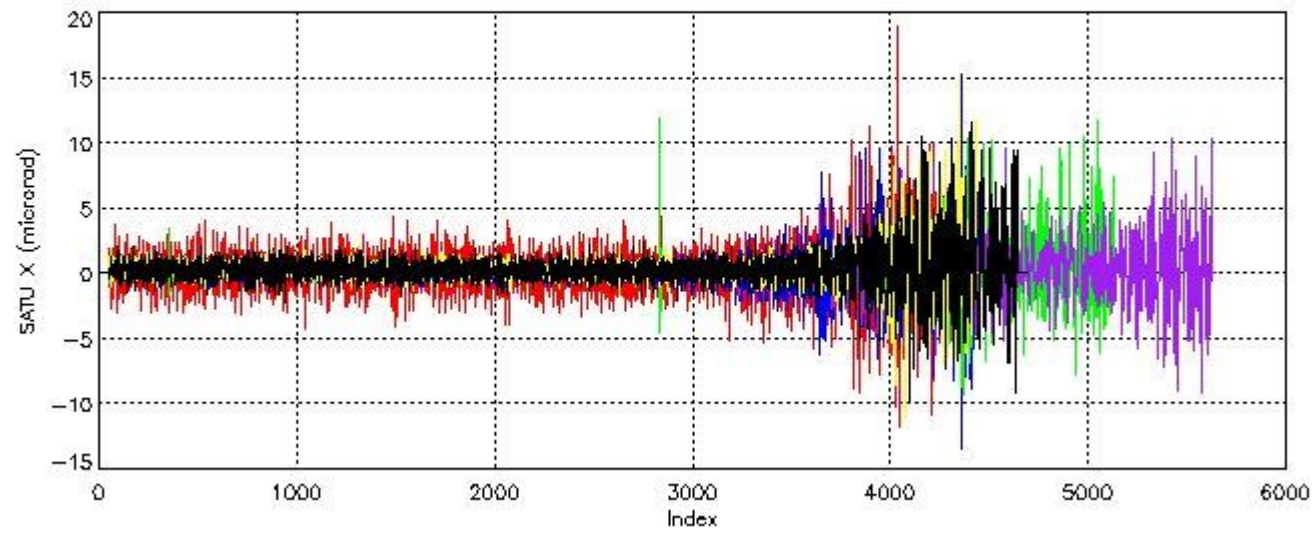


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.16479	-0.87215	0.15501	-0.77289
St. deviation:	0.68427	1.9728	0.73107	2.2698
Maximum:	4.1000	4.4000	5.3000	6.9000
Minimum:	-4.5000	-7.3000	-6.1000	-10.000

Number of data:	6050.0	6050.0	28300.	28300.
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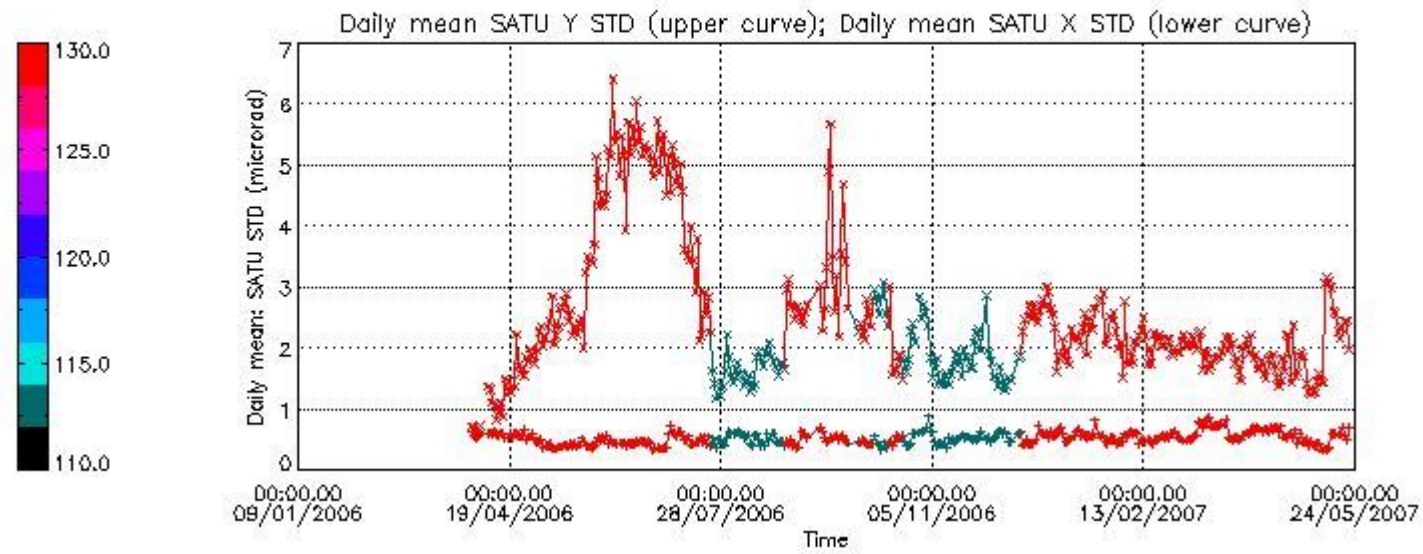
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

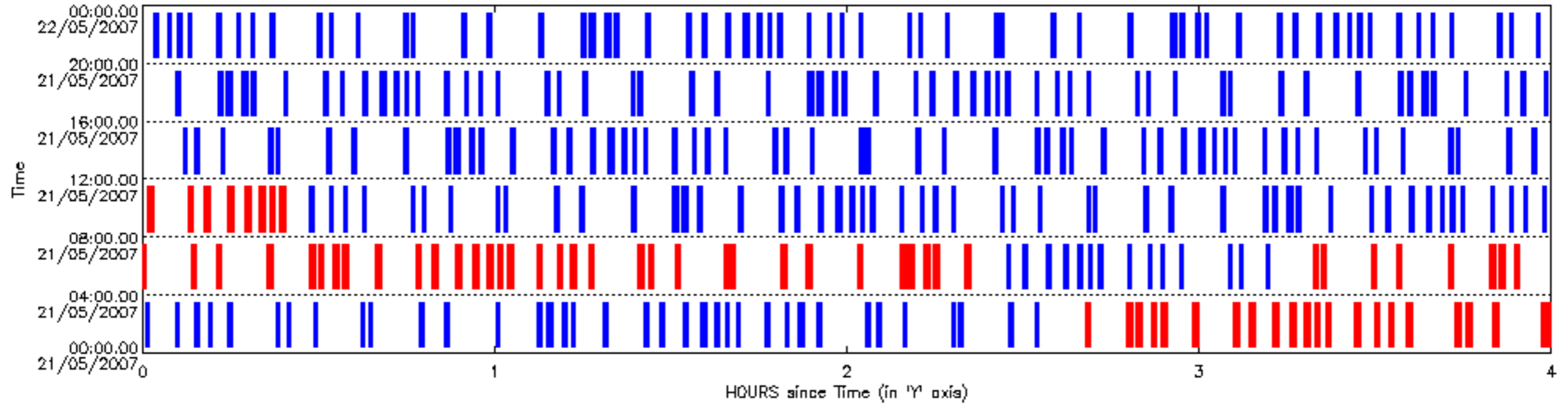
Lower curve: STD of SATU X axis

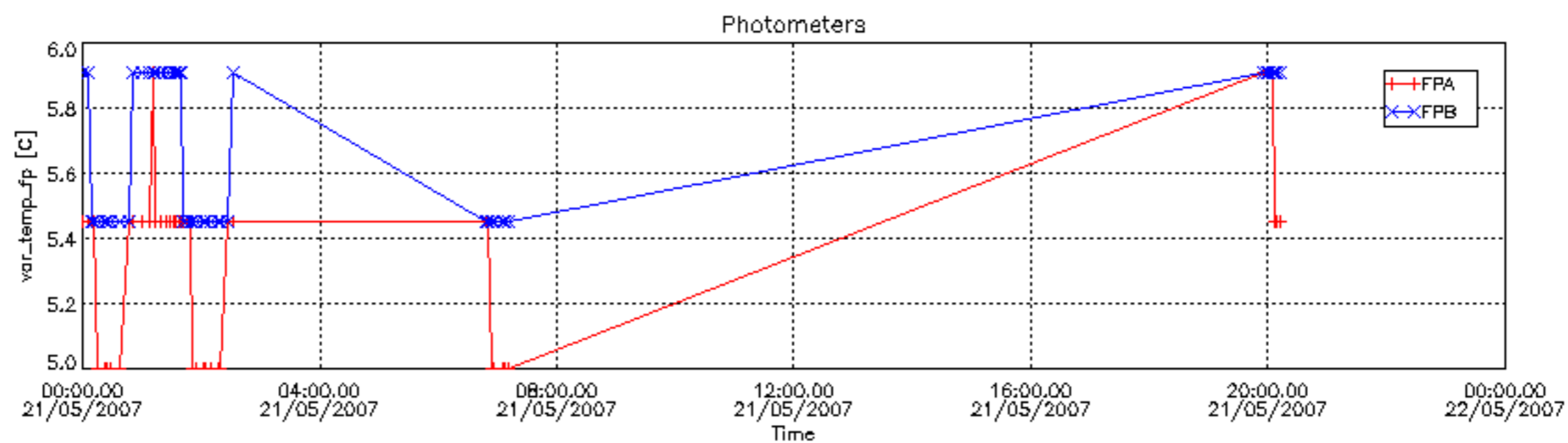
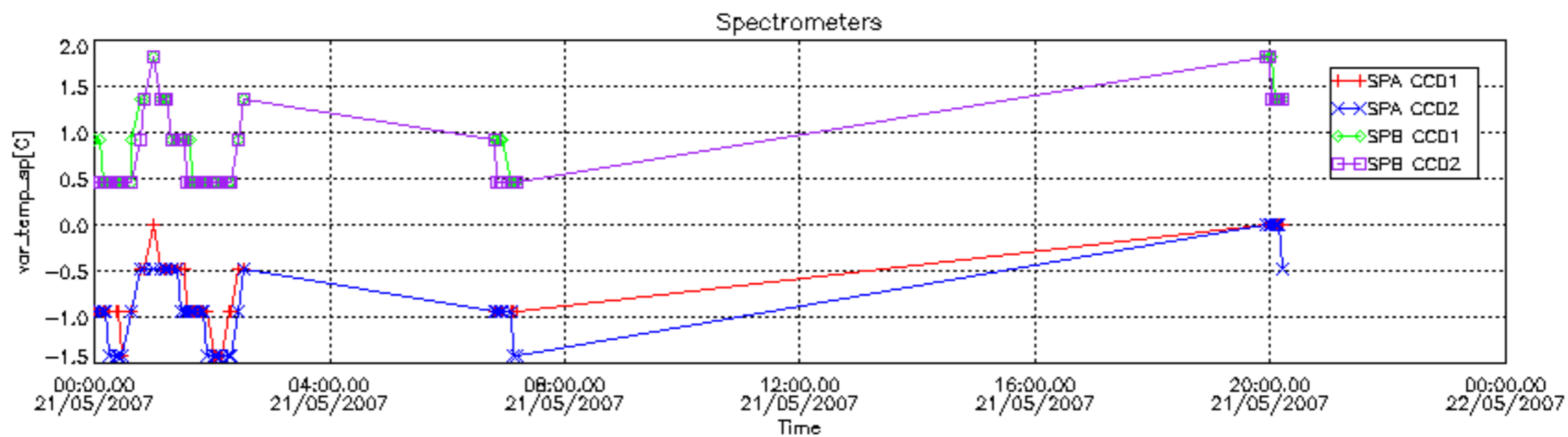


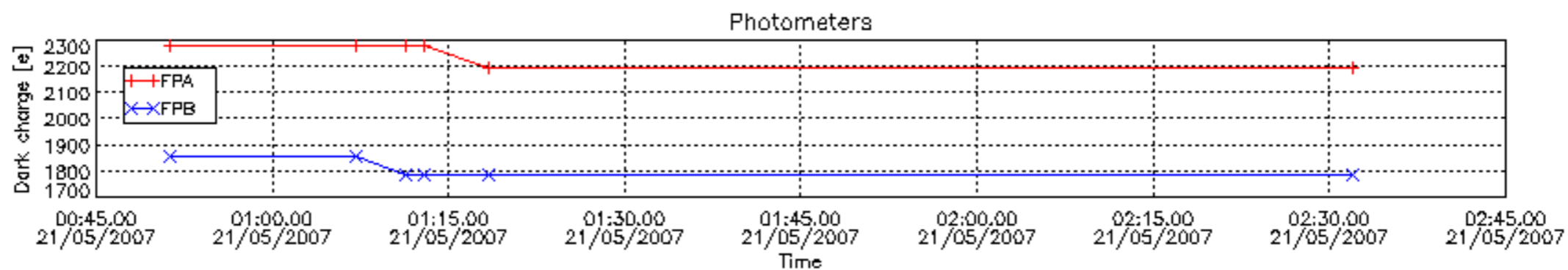
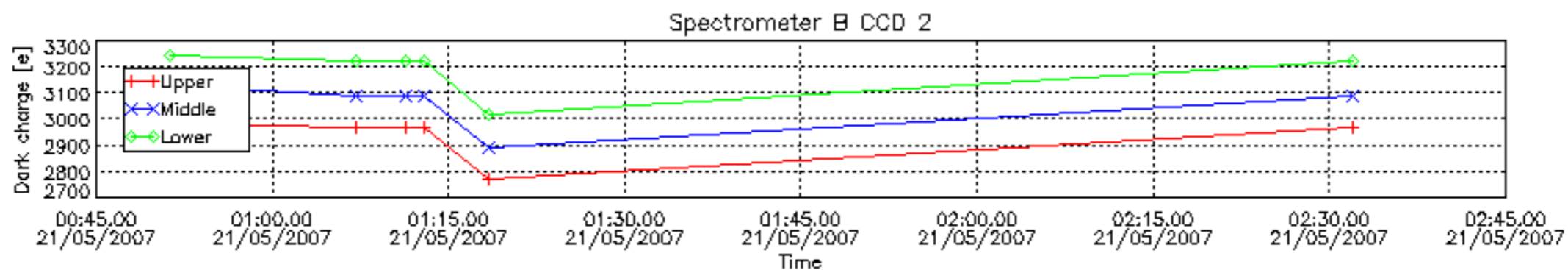
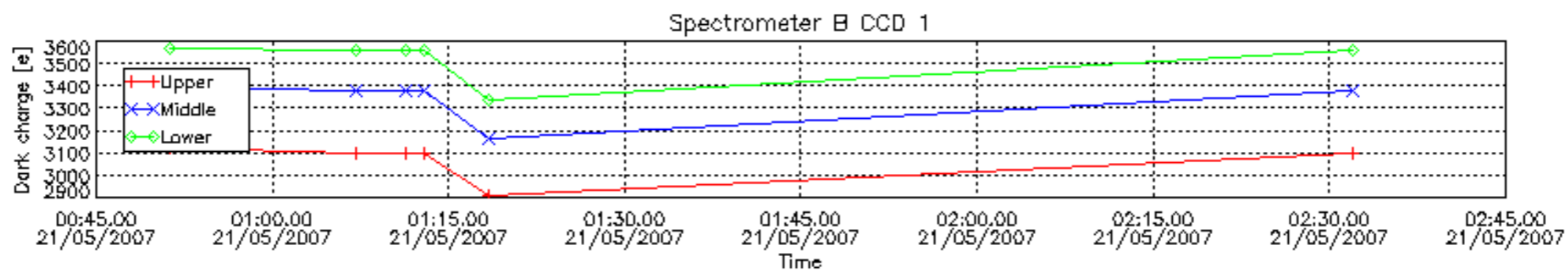
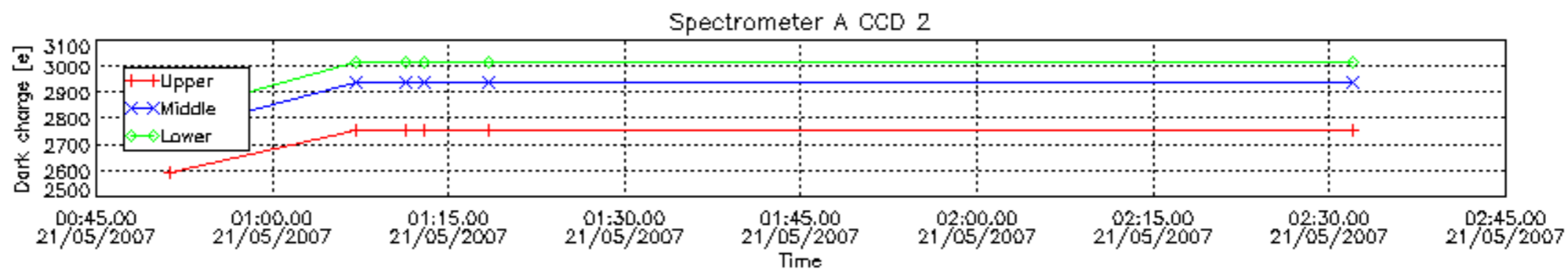
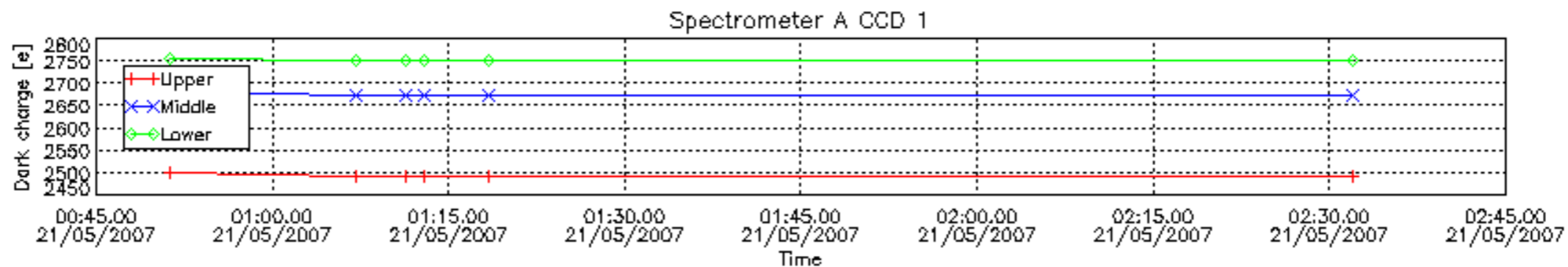
8. Auxiliary Data Files used for the production reported in section 2.4

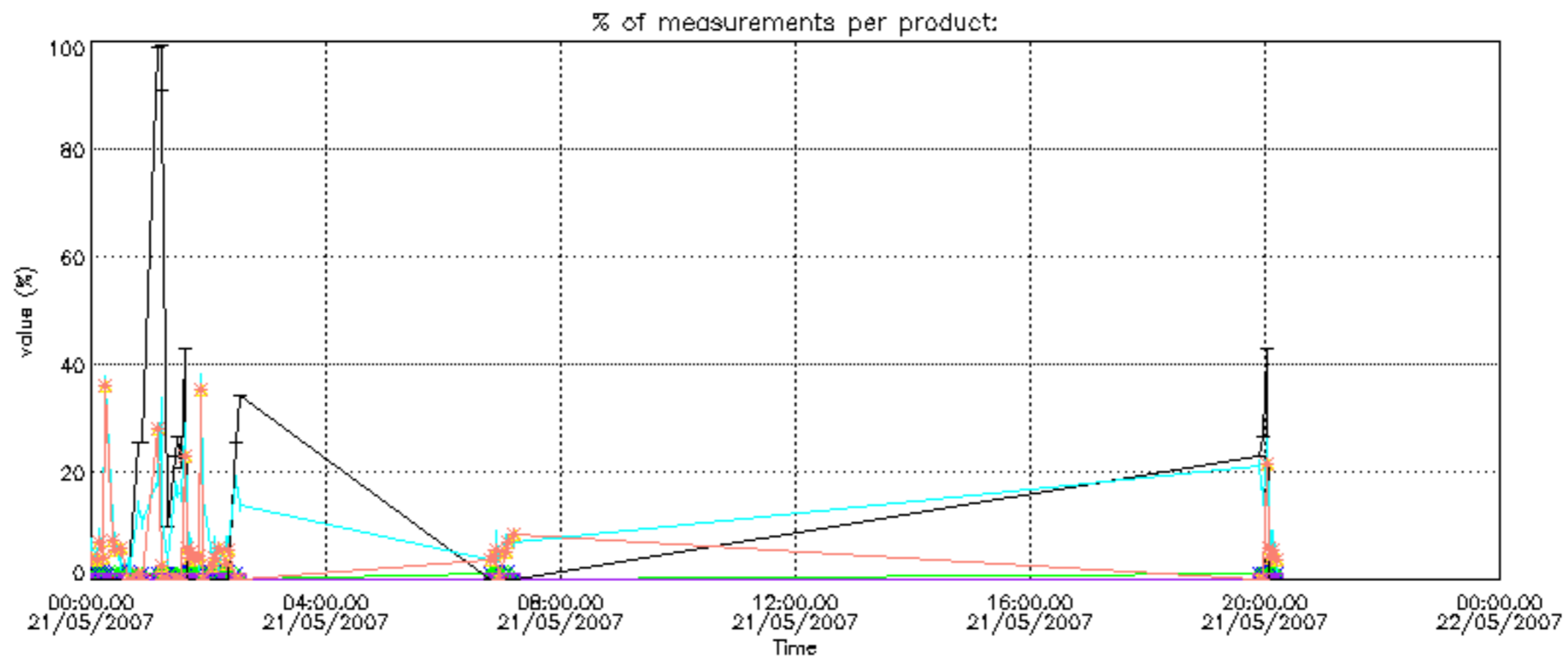
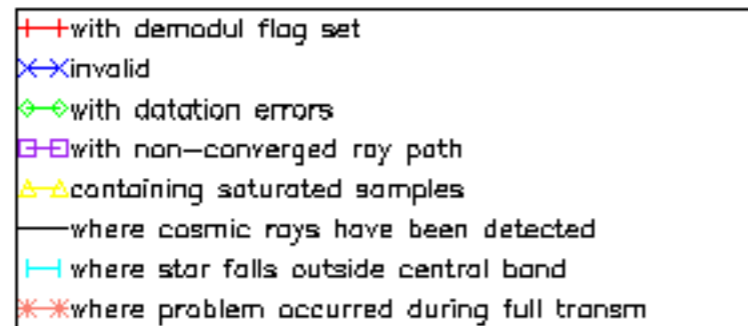
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-MAY-2007 00:00:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	21-MAY-2007 00:00:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-MAY-2007 00:00:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-MAY-2007 00:00:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-MAY-2007 00:00:25
ECMWF_FILE	AUX_ECF_AXNECM20070520_062111_20070520_210000_20070521_090000	1	21-MAY-2007 00:00:25
ECMWF_FILE	AUX_ECF_AXNECM20070520_182111_20070521_030000_20070521_150000	36	21-MAY-2007 06:47:49
ECMWF_FILE	AUX_ECF_AXNECM20070521_062112_20070521_150000_20070522_030000	43	21-MAY-2007 19:54:44
OPTIONAL_ECMWF_FILE	MISSING	1	21-MAY-2007 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070520_213340_000060572058_00186_27294_3522.N1	1	21-MAY-2007 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070520_231437_000060572058_00187_27295_3523.N1	13	21-MAY-2007 01:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070521_032420_000057382058_00190_27298_3525.N1	36	21-MAY-2007 06:47:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070521_195235_000035072058_00200_27308_3531.N1	43	21-MAY-2007 19:54:44

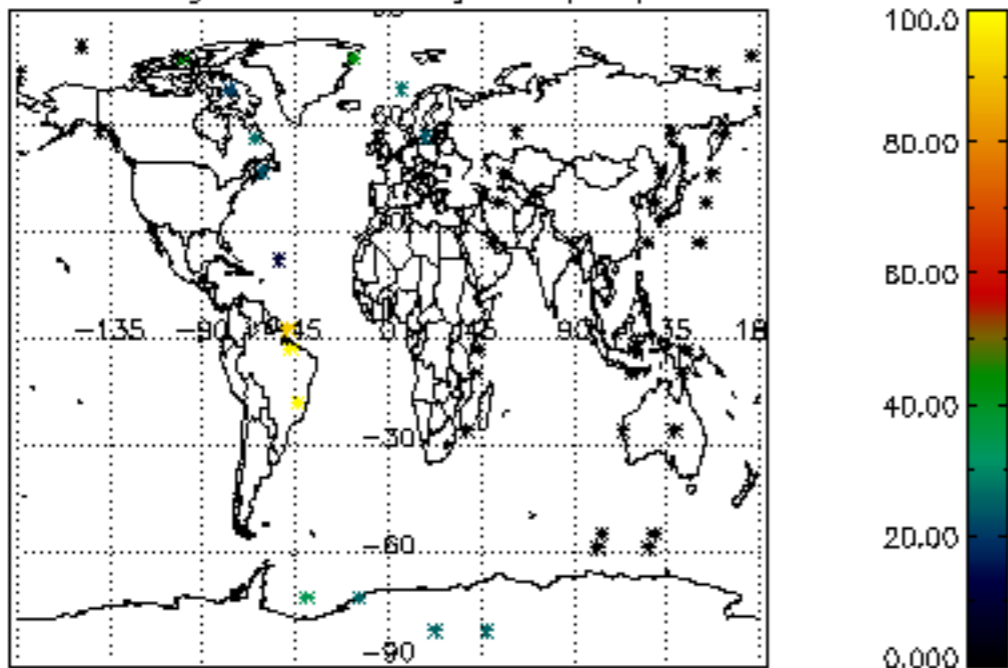




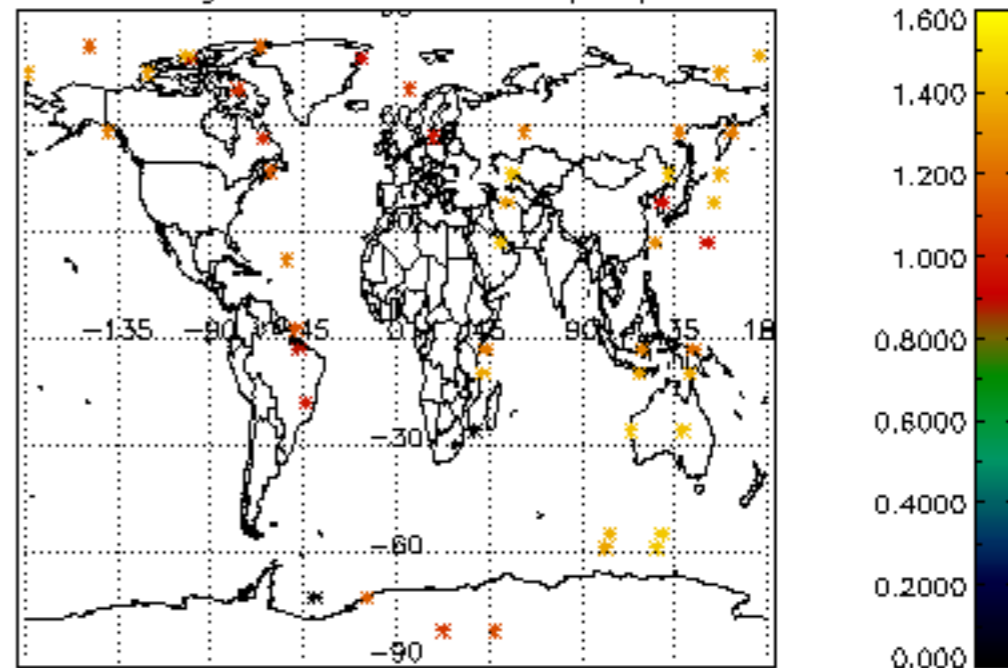




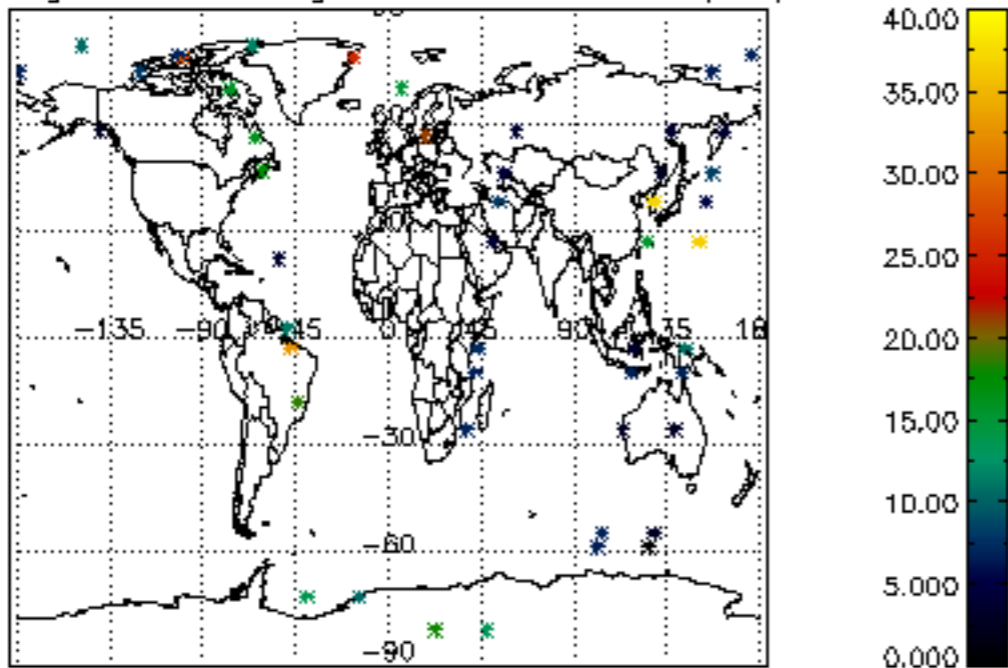
Percentage of cosmic ray hits per profile



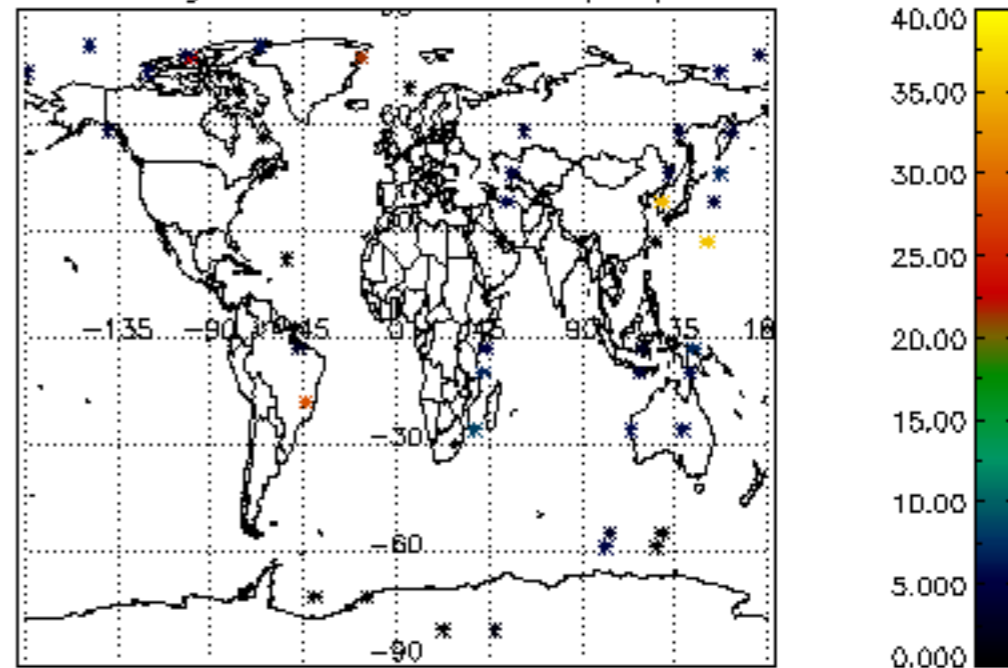
Percentage of datation errors per profile



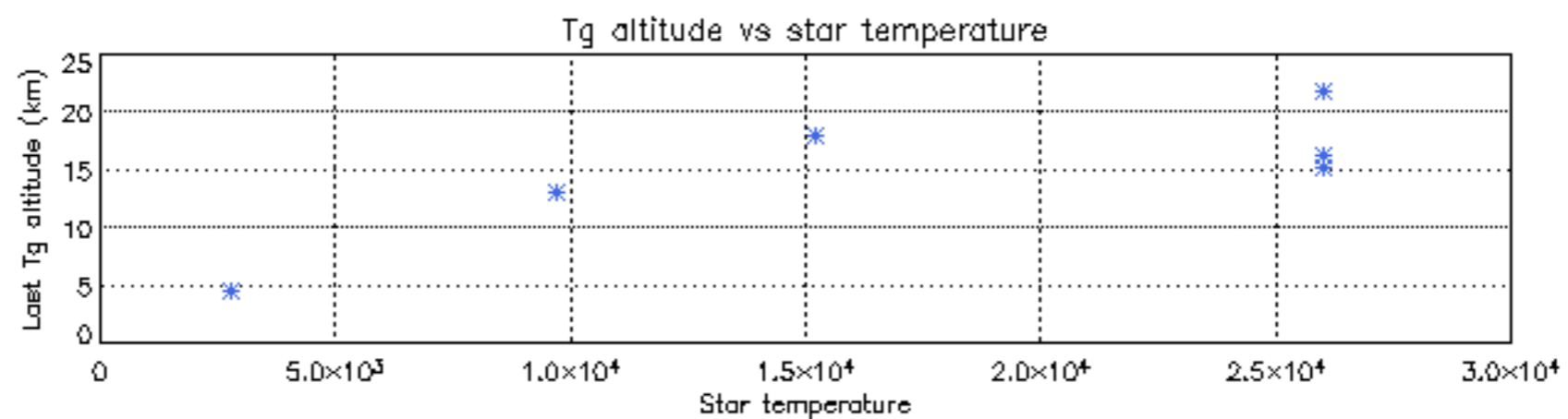
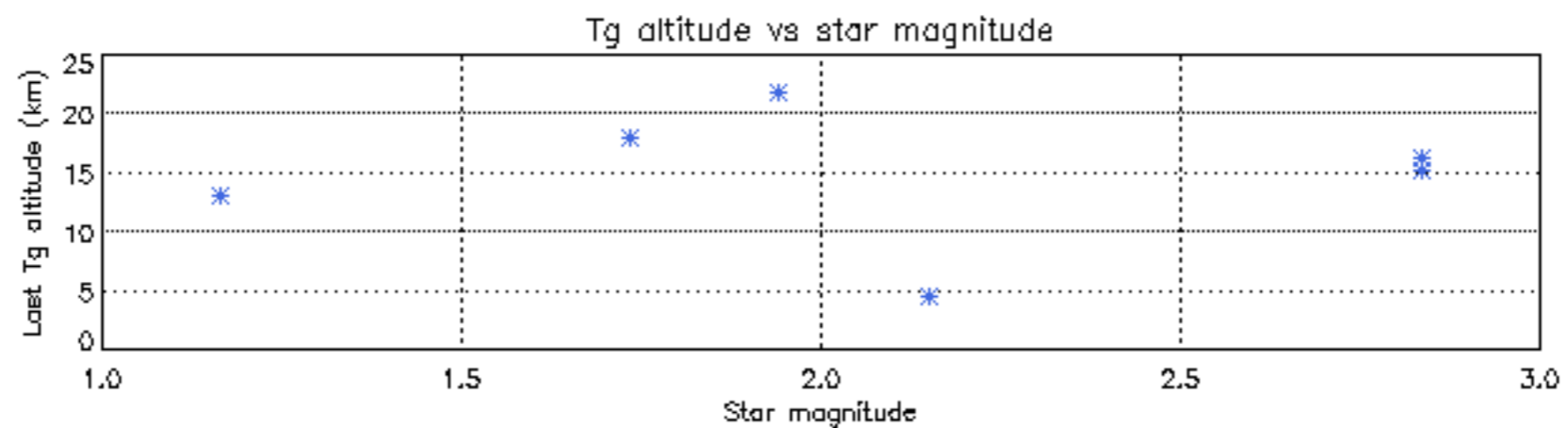
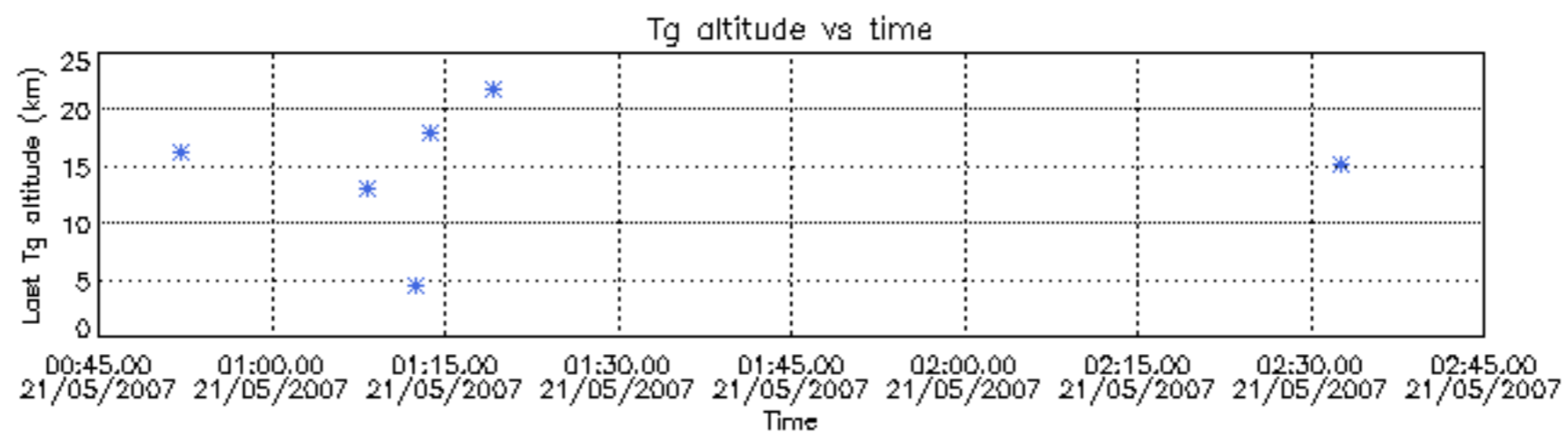
Percentage of star falling outside central band per profile



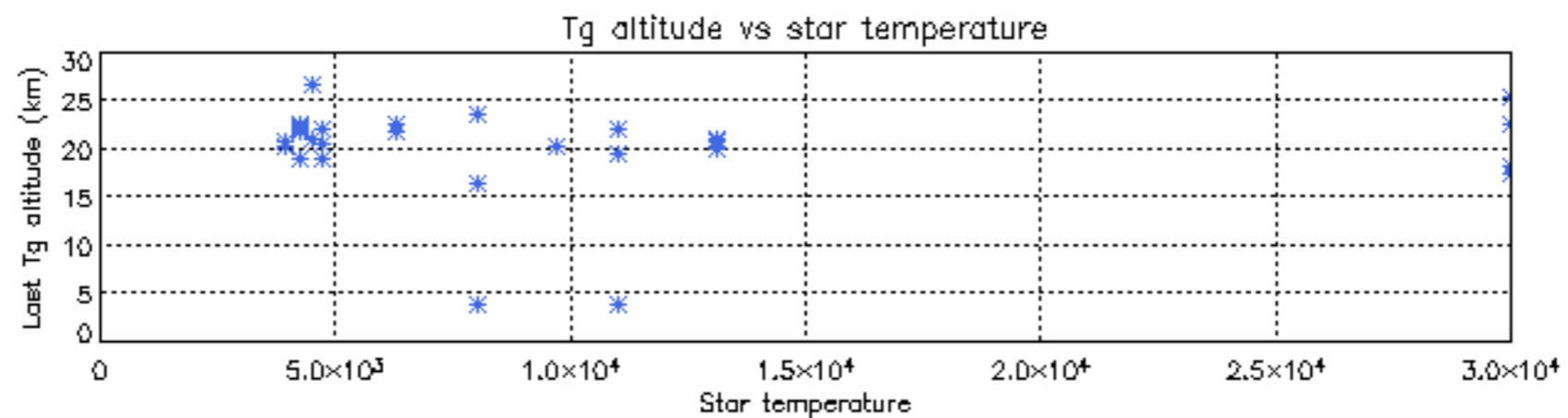
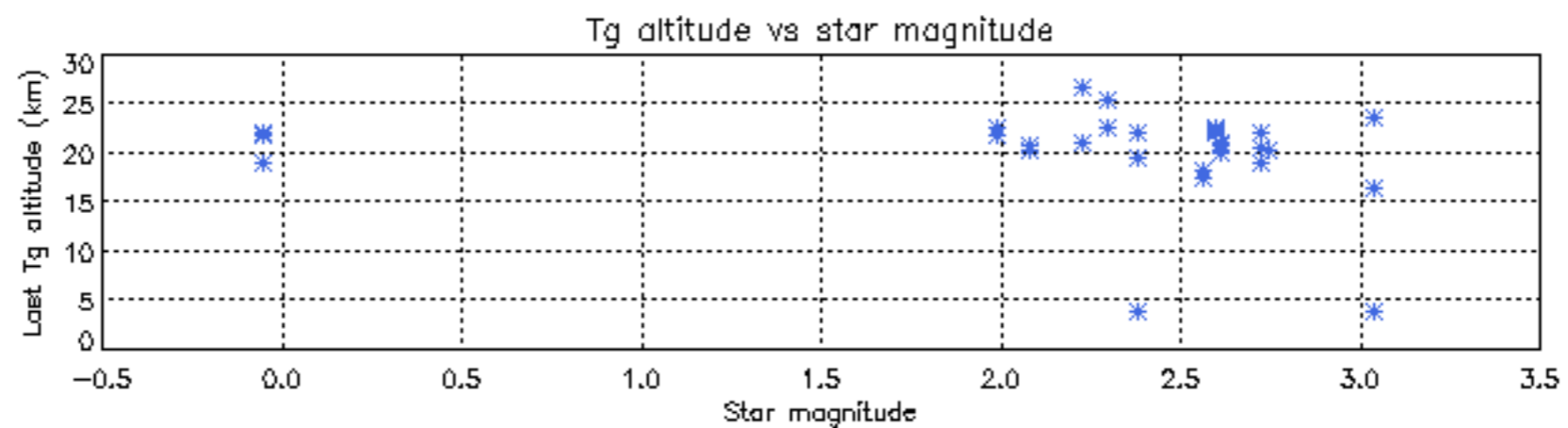
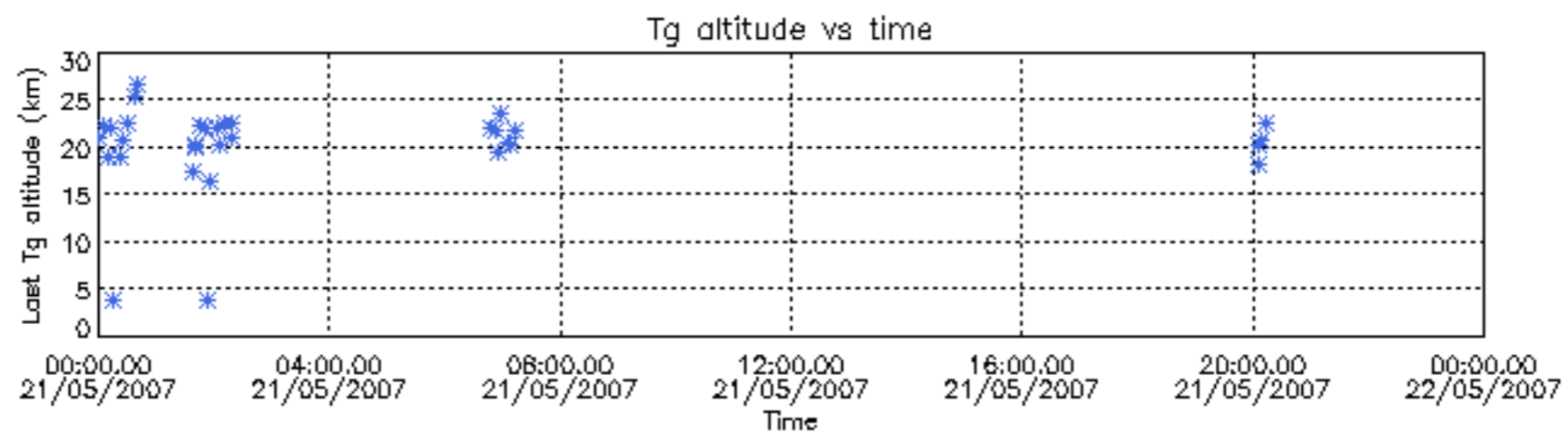
Percentage of saturation errors per profile

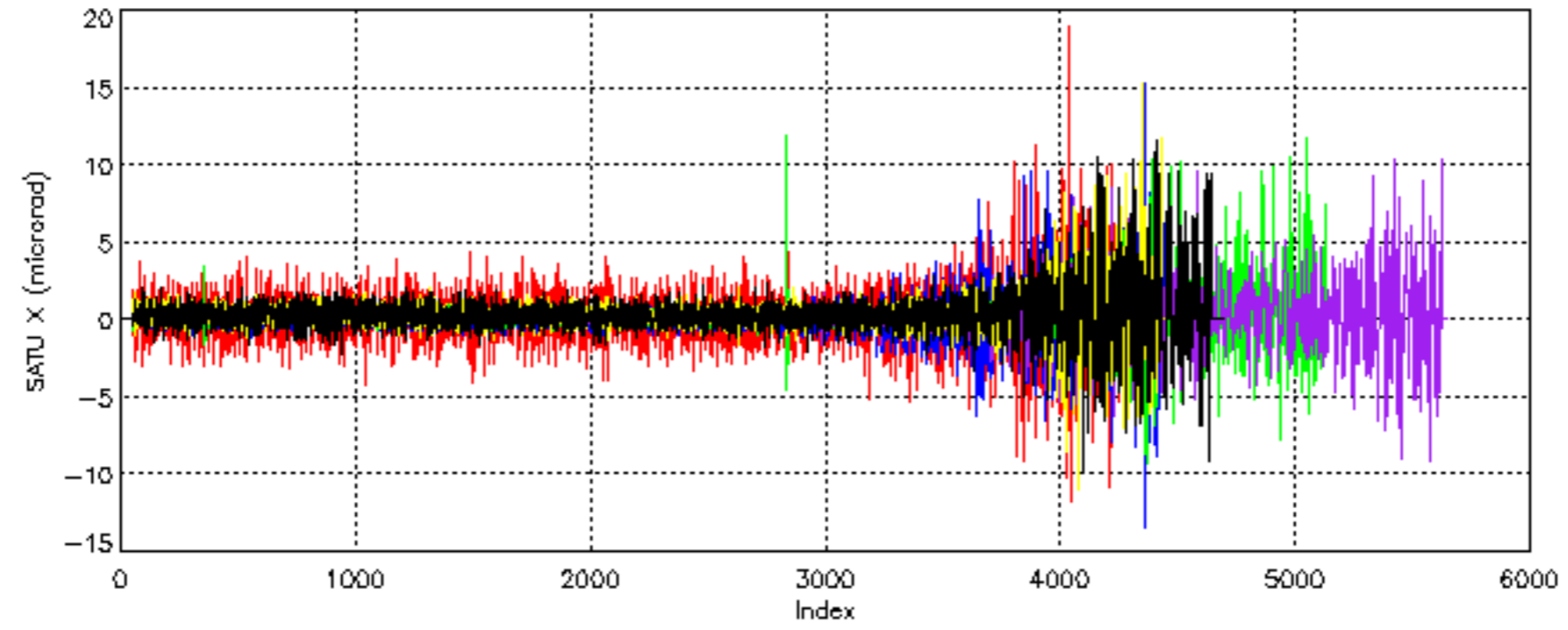


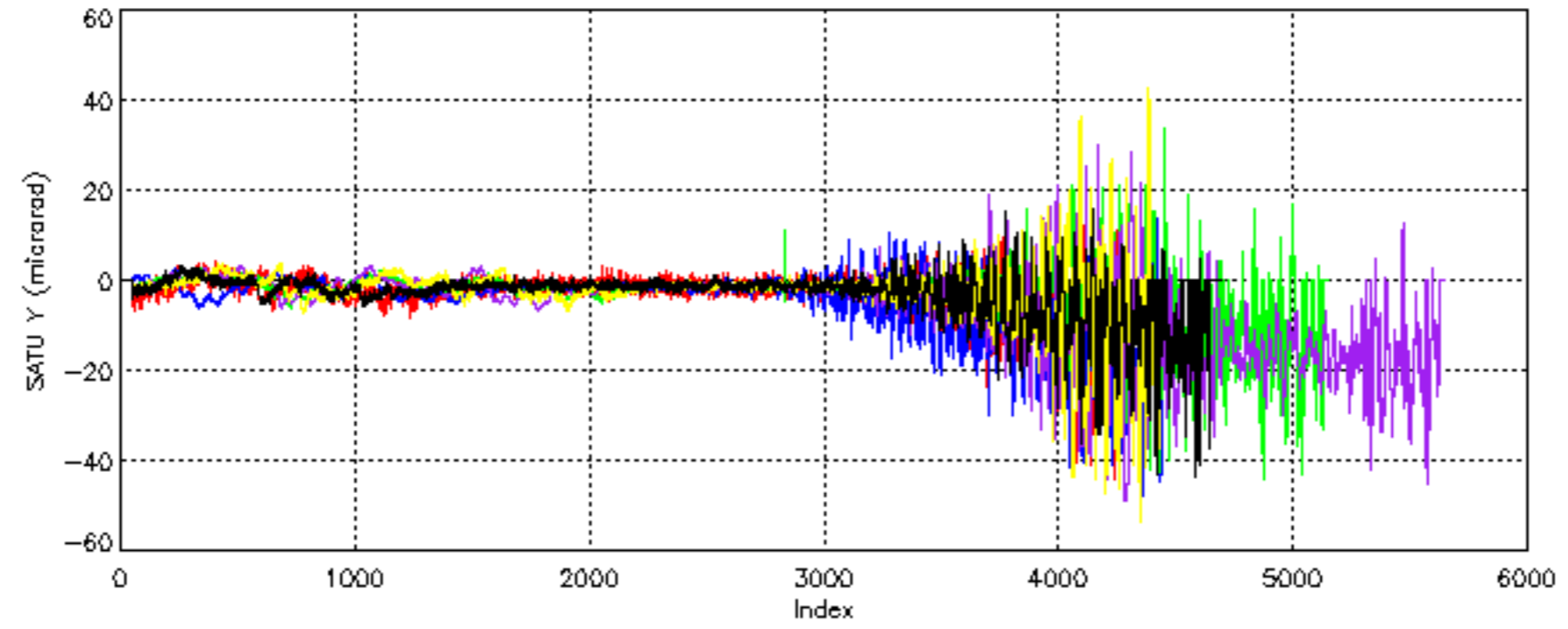
Tangent altitude at which the star is lost

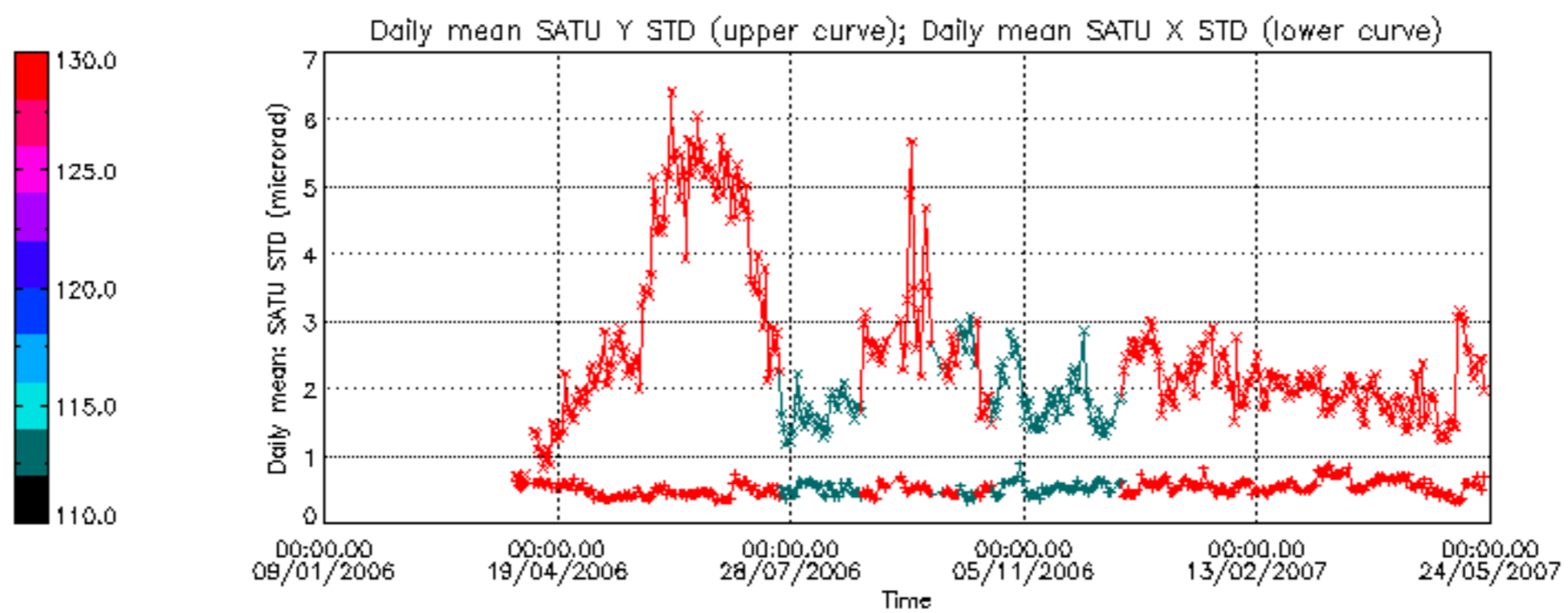


Tangent altitude at which the star is lost









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 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
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 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
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9; 3922.4; 03-MAY-2007 11:46:37; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;27045
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5; 20.6; 03-MAY-2007 12:22:11; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27046
6; 588.0; 03-MAY-2007 12:31:39; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27046
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22; 4004.7; 04-MAY-2007 23:00:34; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;27066
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6; 797.0; 21-MAY-2007 23:13:14; Dark ; 47.5; 141; Bet Ara ; 2.84; 4600;occ; 95; 0;27310
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6; 3446.6; 23-MAY-2007 09:29:22; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27330
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14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331
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18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331
19; 7008.7; 23-MAY-2007 12:09:20; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27331
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21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331
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3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	; 2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		; 2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	; 3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	; 2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	; 2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	; 1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	; 2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	; 2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	; 46.5;	58;	21Alp And	; 2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	; 45.0;	140;	88Gam Peg	; 2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	; 43.5;	52;	16Bet Cet	; 2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	; 57.0;	63;	Bet Gru	; 2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	; 49.0;	31;	Alp Gru	; 1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	; 47.5;	45;	Alp Pav	; 1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	; 41.0;	141;	Bet Ara	; 2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	; 47.0;	40;	The Sco	; 1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	; 49.5;	75;	26Eps Sco	; 2.29;	4250;occ;	99;	0;	27332
21;	7415.7;	23-MAY-2007	13:56:43;	Dark	; 59.5;	16;	21Alp Sco	; 1.02;	3000;occ;	119;	0;	27332

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3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	; 2.61;	13100;occ;	75;	0;	27333
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	; 2.60;	4250;occ;	79;	0;	27333
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		; 2.38;	11000;occ;	72;	0;	27333
6;	2560.6;	23-MAY-2007	14:16:24;	Bright;	35.0;	180;	27Gam Boo	; 3.04;	8000;occ;	70;	0;	27333
7;	3048.3;	23-MAY-2007	14:24:32;	Bright;	58.0;	119;	14Eta Dra	; 2.73;	4700;occ;	116;	0;	27333
8;	3173.1;	23-MAY-2007	14:26:36;	Bright;	38.5;	60;	7Bet UMi	; 2.08;	3950;occ;	77;	0;	27333
9;	3446.7;	23-MAY-2007	14:31:10;	Bright;	32.0;	49;	1Alp UMi	; 1.99;	6300;occ;	64;	0;	27333
10;	3937.4;	23-MAY-2007	14:39:21;	Bright;	41.0;	76;	27Gam Cas	; 2.30;	30000;occ;	82;	0;	27333
11;	4009.6;	23-MAY-2007	14:40:33;	Bright;	37.0;	68;	18Alp Cas	; 2.22;	4500;occ;	74;	0;	27333
12;	4532.4;	23-MAY-2007	14:49:16;	Dark	; 45.0;	58;	21Alp And	; 2.07;	11000;occ;	90;	0;	27333
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	; 45.5;	140;	88Gam Peg	; 2.83;	26000;occ;	91;	0;	27333
14;	5326.7;	23-MAY-2007	15:02:30;	Dark	; 42.5;	52;	16Bet Cet	; 2.04;	4500;occ;	85;	0;	27333
15;	5849.1;	23-MAY-2007	15:11:12;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27333
16;	6012.4;	23-MAY-2007	15:13:56;	Dark	; 55.0;	63;	Bet Gru	; 2.15;	2800;occ;	110;	0;	27333
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	; 44.5;	31;	Alp Gru	; 1.73;	15200;occ;	89;	0;	27333
18;	6436.1;	23-MAY-2007	15:20:59;	Dark	; 42.0;	45;	Alp Pav	; 1.94;	26000;occ;	84;	0;	27333
19;	6844.0;	23-MAY-2007	15:27:47;	Dark	; 42.5;	141;	Bet Ara	; 2.84;	4600;occ;	85;	0;	27333
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	; 53.5;	40;	The Sco	; 1.86;	7100;occ;	107;	0;	27333
21;	7122.7;	23-MAY-2007	15:32:26;	Dark	; 26.0;	115;	34Ups Sco	; 2.70;	26000;occ;	52;	0;	27333
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2;	1524.4;	23-MAY-2007	15:39:44;	Bright;	40.5;	97;	8Bet1Sco	; 2.56;	30000;occ;	81;	0;	27334
3;	1631.7;	23-MAY-2007	15:41:31;	Bright;	34.5;	122;	9Alp2Lib	; 2.75;	9700;occ;	69;	0;	27334
4;	1734.2;	23-MAY-2007	15:43:13;	Bright;	36.5;	104;	27Bet Lib	; 2.61;	13100;occ;	73;	0;	27334
5;	2025.7;	23-MAY-2007	15:48:05;	Bright;	39.5;	102;	24Alp Ser	; 2.60;	4250;occ;	79;	0;	27334
6;	2370.7;	23-MAY-2007	15:53:50;	Bright;	36.0;	83;		; 2.38;	11000;occ;	72;	0;	27334
7;	2560.7;	23-MAY-2007	15:57:00;	Bright;	35.0;	180;	27Gam Boo	; 3.04;	8000;occ;	70;	0;	27334
8;	3047.9;	23-MAY-2007	16:05:07;	Bright;	40.0;	119;	14Eta Dra	; 2.73;	4700;occ;	80;	0;	27334
9;	3173.0;	23-MAY-2007	16:07:12;	Bright;	37.5;	60;	7Bet UMi	; 2.08;	3950;occ;	75;	0;	27334
10;	3446.7;	23-MAY-2007	16:11:46;	Bright;	35.5;	49;	1Alp UMi	; 1.99;	6300;occ;	71;	0;	27334
11;	3937.3;	23-MAY-2007	16:19:57;	Bright;	37.0;	76;	27Gam Cas	; 2.30;	30000;occ;	74;	0;	27334
12;	4009.8;	23-MAY-2007	16:21:09;	Bright;	55.0;	68;	18Alp Cas	; 2.22;	4500;occ;	110;	0;	27334
13;	4532.4;	23-MAY-2007	16:29:52;	Dark	; 45.5;	58;	21Alp And	; 2.07;	11000;occ;	91;	0;	27334
14;	4798.6;	23-MAY-2007	16:34:18;	Dark	; 45.5;	140;	88Gam Peg	; 2.83;	26000;occ;	91;	0;	27334
15;	5327.0;	23-MAY-2007	16:43:06;	Dark	; 43.0;	52;	16Bet Cet	; 2.04;	4500;occ;	86;	0;	27334
16;	5849.7;	23-MAY-2007	16:51:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27334
17;	6013.2;	23-MAY-2007	16:54:32;	Dark	; 49.5;	63;	Bet Gru	; 2.15;	2800;occ;	99;	0;	27334
18;	6113.5;	23-MAY-2007	16:56:13;	Dark	; 45.0;	31;	Alp Gru	; 1.73;	15200;occ;	90;	0;	27334
19;	6436.8;	23-MAY-2007	17:01:36;	Dark	; 42.0;	45;	Alp Pav	; 1.94;	26000;occ;	84;	0;	27334
20;	6844.6;	23-MAY-2007	17:08:24;	Dark	; 39.5;	141;	Bet Ara	; 2.84;	4600;occ;	79;	0;	27334
21;	7010.5;	23-MAY-2007	17:11:10;	Dark	; 51.0;	40;	The Sco	; 1.86;	7100;occ;	102;	0;	27334

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