

GOMOS Daily Report 13-DEC-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	15DEC2007 05:41:24
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (13DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

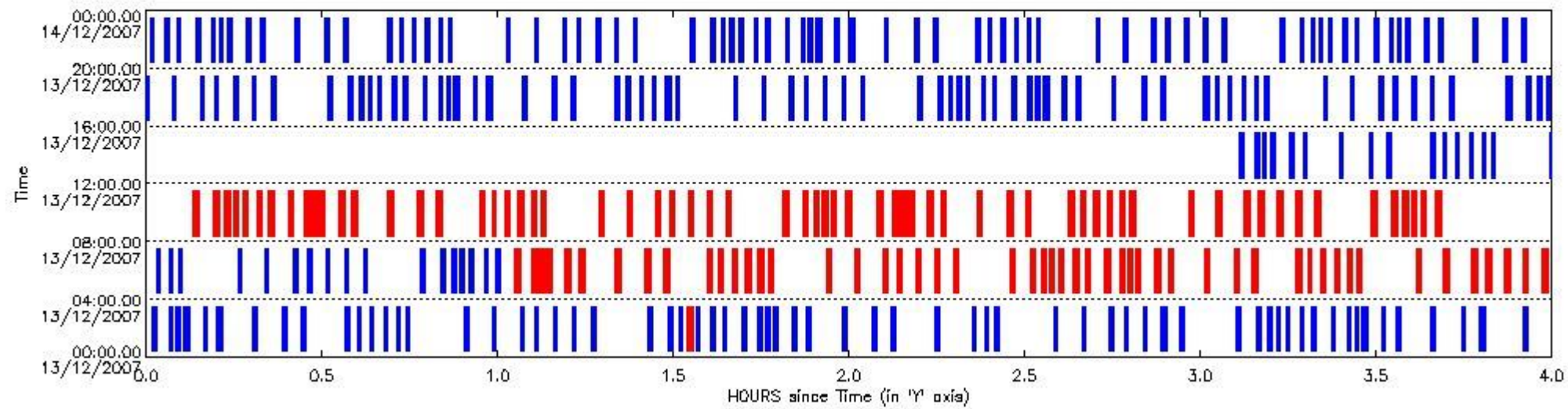
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



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

UTC start time	Star name	Star ID	Orbit
13-DEC-2007 01:32:20	IotCen	123	30245
13-DEC-2007 05:02:55	MuVel	113	30248
13-DEC-2007 05:05:39	UpsCar	159	30248
13-DEC-2007 05:06:55	IotCar	71	30248
13-DEC-2007 05:08:11	DSA1030	0	30248
13-DEC-2007 05:11:30	Gam2Vel	34	30248
13-DEC-2007 05:13:53	AlpCar	2	30248
13-DEC-2007 05:20:00	AlpCol	108	30248
13-DEC-2007 05:25:07	11AlpLep	101	30248
13-DEC-2007 05:28:16	19BetOri	7	30248
13-DEC-2007 05:35:42	87AlpTau	13	30248
13-DEC-2007 05:37:46	25EtaTau	146	30248
13-DEC-2007 05:39:58	44ZetPer	150	30248
13-DEC-2007 05:42:17	45EpsPer	149	30248
13-DEC-2007 05:44:27	39DelPer	175	30248

13-DEC-2007 05:46:08	23GamPer	160	30248
13-DEC-2007 05:56:10	1AlpUMi	49	30248
13-DEC-2007 06:00:53	7BetUMi	60	30248
13-DEC-2007 06:05:40	77EpsUMa	32	30248
13-DEC-2007 06:08:07	85EtaUMa	39	30248
13-DEC-2007 06:11:21	27GamBoo	180	30248
13-DEC-2007 06:14:30		83	30248
13-DEC-2007 06:17:44	8EtaBoo	111	30248
13-DEC-2007 06:27:22	67AlpVir	15	30248
13-DEC-2007 06:30:51	46GamHya	169	30248
13-DEC-2007 06:32:45	5TheCen	54	30248
13-DEC-2007 06:34:09	lotCen	123	30248
13-DEC-2007 06:35:47	ZetCen	95	30248
13-DEC-2007 06:38:16	GamCen	64	30248
13-DEC-2007 06:40:15	BetCru	20	30249
13-DEC-2007 06:43:32	MuVel	113	30249
13-DEC-2007 06:46:16	UpsCar	159	30249
13-DEC-2007 06:47:32	lotCar	71	30249
13-DEC-2007 06:48:48	DSA1030	0	30249
13-DEC-2007 06:52:07	Gam2Vel	34	30249
13-DEC-2007 06:54:30	AlpCar	2	30249
13-DEC-2007 07:00:36	AlpCol	108	30249
13-DEC-2007 07:05:43	11AlpLep	101	30249
13-DEC-2007 07:08:52	19BetOri	7	30249
13-DEC-2007 07:16:18	87AlpTau	13	30249
13-DEC-2007 07:18:22	25EtaTau	146	30249
13-DEC-2007 07:20:34	44ZetPer	150	30249
13-DEC-2007 07:22:53	45EpsPer	149	30249
13-DEC-2007 07:25:03	39DelPer	175	30249
13-DEC-2007 07:26:44	23GamPer	160	30249
13-DEC-2007 07:36:45	1AlpUMi	49	30249
13-DEC-2007 07:41:29	7BetUMi	60	30249
13-DEC-2007 07:46:15	77EpsUMa	32	30249
13-DEC-2007 07:48:43	85EtaUMa	39	30249
13-DEC-2007 07:51:57	27GamBoo	180	30249
13-DEC-2007 07:55:06		83	30249
13-DEC-2007 07:58:20	8EtaBoo	111	30249
13-DEC-2007 08:07:59	67AlpVir	15	30249
13-DEC-2007 08:11:28	46GamHya	169	30249
13-DEC-2007 08:13:21	5TheCen	54	30249
13-DEC-2007 08:14:46	lotCen	123	30249
13-DEC-2007 08:16:23	ZetCen	95	30249
13-DEC-2007 08:18:53	GamCen	64	30249
13-DEC-2007 08:20:52	BetCru	20	30250
13-DEC-2007 08:24:09	MuVel	113	30250
13-DEC-2007 08:26:52	UpsCar	159	30250
13-DEC-2007 08:28:08	lotCar	71	30250
13-DEC-2007 08:29:24	DSA1030	0	30250
13-DEC-2007 08:32:43	Gam2Vel	34	30250
13-DEC-2007 08:35:06	AlpCar	2	30250
13-DEC-2007 08:41:12	AlpCol	108	30250
13-DEC-2007 08:46:19	11AlpLep	101	30250
13-DEC-2007 08:49:28	19BetOri	7	30250
13-DEC-2007 08:56:54	87AlpTau	13	30250
13-DEC-2007 08:58:58	25EtaTau	146	30250
13-DEC-2007 09:01:10	44ZetPer	150	30250
13-DEC-2007 09:03:29	45EpsPer	149	30250
13-DEC-2007 09:05:39	39DelPer	175	30250
13-DEC-2007 09:07:20	23GamPer	160	30250

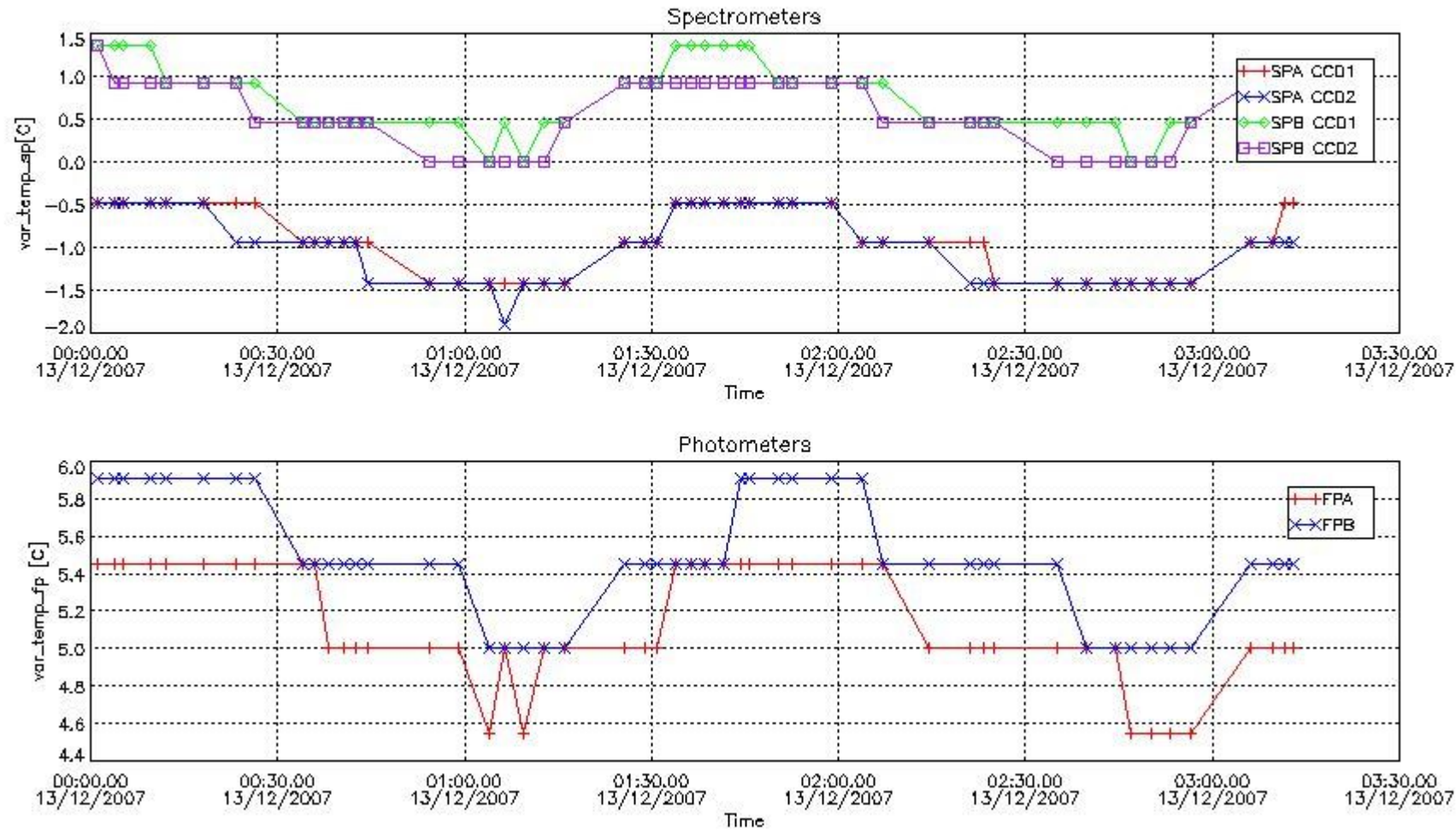
13-DEC-2007 09:17:21	1AlpUMi	49	30250
13-DEC-2007 09:22:05	7BetUMi	60	30250
13-DEC-2007 09:26:51	77EpsUMa	32	30250
13-DEC-2007 09:29:19	85EtaUMa	39	30250
13-DEC-2007 09:32:33	27GamBoo	180	30250
13-DEC-2007 09:35:43		83	30250
13-DEC-2007 09:38:56	8EtaBoo	111	30250
13-DEC-2007 09:48:35	67AlpVir	15	30250
13-DEC-2007 09:52:04	46GamHya	169	30250
13-DEC-2007 09:53:58	5TheCen	54	30250
13-DEC-2007 09:55:22	lotCen	123	30250
13-DEC-2007 09:57:00	ZetCen	95	30250
13-DEC-2007 09:59:29	GamCen	64	30250
13-DEC-2007 10:04:46	MuVel	113	30251
13-DEC-2007 10:07:29	UpsCar	159	30251
13-DEC-2007 10:08:45	lotCar	71	30251
13-DEC-2007 10:10:01	DSA1030	0	30251
13-DEC-2007 10:13:20	Gam2Vel	34	30251
13-DEC-2007 10:15:42	AlpCar	2	30251
13-DEC-2007 10:21:48	AlpCol	108	30251
13-DEC-2007 10:26:55	11AlpLep	101	30251
13-DEC-2007 10:30:04	19BetOri	7	30251
13-DEC-2007 10:37:30	87AlpTau	13	30251
13-DEC-2007 10:39:34	25EtaTau	146	30251
13-DEC-2007 10:41:46	44ZetPer	150	30251
13-DEC-2007 10:44:05	45EpsPer	149	30251
13-DEC-2007 10:46:15	39DelPer	175	30251
13-DEC-2007 10:47:56	23GamPer	160	30251
13-DEC-2007 10:57:57	1AlpUMi	49	30251
13-DEC-2007 11:02:41	7BetUMi	60	30251
13-DEC-2007 11:07:27	77EpsUMa	32	30251
13-DEC-2007 11:09:55	85EtaUMa	39	30251
13-DEC-2007 11:13:09	27GamBoo	180	30251
13-DEC-2007 11:16:19		83	30251
13-DEC-2007 11:19:33	8EtaBoo	111	30251
13-DEC-2007 11:29:12	67AlpVir	15	30251
13-DEC-2007 11:32:41	46GamHya	169	30251
13-DEC-2007 11:34:34	5TheCen	54	30251
13-DEC-2007 11:35:59	lotCen	123	30251
13-DEC-2007 11:37:36	ZetCen	95	30251
13-DEC-2007 11:40:06	GamCen	64	30251

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_1PNPDE20071213_000105_000000442064_00131_30245_4596.N1	13-DEC-2007 00:01:05	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30245	No
2	GOM_TRA_1PNPDE20071213_000350_000000382064_00131_30245_4597.N1	13-DEC-2007 00:03:50	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30245	No
3	GOM_TRA_1PNPDE20071213_000505_000000422064_00131_30245_4598.N1	13-DEC-2007 00:05:05	Dark	41.500	71	lot Car	2.2460	7700.0	83	30245	No
4	GOM_TRA_1PNPDE20071213_000940_000000472064_00131_30245_4599.N1	13-DEC-2007 00:09:40	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	30245	No
5	GOM_TRA_1PNPDE20071213_001204_000000522064_00131_30245_4600.N1	13-DEC-2007 00:12:04	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	30245	No
6	GOM_TRA_1PNPDE20071213_001811_000000412064_00131_30245_4601.N1	13-DEC-2007 00:18:11	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30245	No
7	GOM_TRA_1PNPDE20071213_002318_000000462064_00131_30245_4602.N1	13-DEC-2007 00:23:18	Straylight	45.500	101	11Alp Lep	2.5820	7000.0	91	30245	No
8	GOM_TRA_1PNPDE20071213_002628_000000502064_00131_30245_4603.N1	13-DEC-2007 00:26:28	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	30245	No
9	GOM_TRA_1PNPDE20071213_003355_000000502064_00131_30245_4604.N1	13-DEC-2007 00:33:55	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	30245	No
10	GOM_TRA_1PNPDE20071213_003558_000000352064_00131_30245_4605.N1	13-DEC-2007 00:35:58	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	30245	No
11	GOM_TRA_1PNPDE20071213_003811_000000352064_00131_30245_4606.N1	13-DEC-2007 00:38:11	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30245	No
12	GOM_TRA_1PNPDE20071213_004030_000000352064_00131_30245_4607.N1	13-DEC-2007 00:40:30	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30245	No
13	GOM_TRA_1PNPDE20071213_004240_000000392064_00131_30245_4608.N1	13-DEC-2007 00:42:40	Bright	39.000	175	39Del Per	3.0100	19400.	78	30245	No

14	GOM_TRA_1PNPDE20071213_004420_000000342064_00131_30245_4609.N1	13-DEC-2007 00:44:20	Bright	34.000	160	23Gam Per	2.9300	4700.0	68	30245	No
15	GOM_TRA_1PNPDE20071213_005422_000000372064_00131_30245_4610.N1	13-DEC-2007 00:54:22	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	30245	No
16	GOM_TRA_1PNPDE20071213_005905_000000362064_00131_30245_4611.N1	13-DEC-2007 00:59:05	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	30245	No
17	GOM_TRA_1PNPDE20071213_010352_000000402064_00131_30245_4612.N1	13-DEC-2007 01:03:52	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	30245	No
18	GOM_TRA_1PNPDE20071213_010619_000000402064_00131_30245_4613.N1	13-DEC-2007 01:06:19	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	30245	No
19	GOM_TRA_1PNPDE20071213_010933_000000352064_00131_30245_4614.N1	13-DEC-2007 01:09:33	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30245	No
20	GOM_TRA_1PNPDE20071213_011242_000000342064_00131_30245_4615.N1	13-DEC-2007 01:12:42	Bright	34.000	83		2.3780	11000.	68	30245	No
21	GOM_TRA_1PNPDE20071213_011555_000000582064_00131_30245_4616.N1	13-DEC-2007 01:15:55	Bright	57.500	111	8Eta Boo	2.6800	6000.0	115	30245	No
22	GOM_TRA_1PNPDE20071213_012533_000000502064_00131_30245_4739.N1	13-DEC-2007 01:25:33	Twilight	49.500	15	67Alp Vir	0.97600	28000.	99	30245	No
23	GOM_TRA_1PNPDE20071213_012902_000000452064_00131_30245_4740.N1	13-DEC-2007 01:29:02	Twilight	45.000	169	46Gam Hya	2.9910	4700.0	90	30245	No
24	GOM_TRA_1PNPDE20071213_013056_000000422064_00131_30245_4741.N1	13-DEC-2007 01:30:56	Twilight	41.500	54	5The Cen	2.0550	4500.0	83	30245	No
25	GOM_TRA_1PNPDE20071213_013358_000000372064_00131_30245_4742.N1	13-DEC-2007 01:33:58	Dark	37.000	95	Zet Cen	2.5450	26000.	74	30245	No
26	GOM_TRA_1PNPDE20071213_013627_000000392064_00131_30245_4743.N1	13-DEC-2007 01:36:27	Dark	39.000	64	Gam Cen	2.2000	10600.	78	30245	No
27	GOM_TRA_1PNPDE20071213_013826_000000392064_00132_30246_4744.N1	13-DEC-2007 01:38:26	Dark	39.000	20	Bet Cru	1.2530	30000.	78	30246	No
28	GOM_TRA_1PNPDE20071213_014142_000000462064_00132_30246_4745.N1	13-DEC-2007 01:41:42	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	30246	No
29	GOM_TRA_1PNPDE20071213_014426_000000382064_00132_30246_4746.N1	13-DEC-2007 01:44:26	Dark	37.500	159	Ups Car	2.9200	7200.0	75	30246	No
30	GOM_TRA_1PNPDE20071213_014542_000000422064_00132_30246_4747.N1	13-DEC-2007 01:45:42	Dark	42.000	71	lot Car	2.2460	7700.0	84	30246	No
31	GOM_TRA_1PNPDE20071213_015017_000000522064_00132_30246_4748.N1	13-DEC-2007 01:50:17	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	30246	No
32	GOM_TRA_1PNPDE20071213_015240_000000562064_00132_30246_4749.N1	13-DEC-2007 01:52:40	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	30246	No
33	GOM_TRA_1PNPDE20071213_015847_000000442064_00132_30246_4750.N1	13-DEC-2007 01:58:47	Straylight	43.500	108	Alp Col	2.6520	15200.	87	30246	No
34	GOM_TRA_1PNPDE20071213_020354_000000452064_00132_30246_4751.N1	13-DEC-2007 02:03:54	Straylight	45.000	101	11Alp Lep	2.5820	7000.0	90	30246	No
35	GOM_TRA_1PNPDE20071213_020704_000000482064_00132_30246_4752.N1	13-DEC-2007 02:07:04	Straylight	48.000	7	19Bet Ori	0.10000	14000.	96	30246	No
36	GOM_TRA_1PNPDE20071213_021431_000000552064_00132_30246_4753.N1	13-DEC-2007 02:14:31	Twilight	55.000	13	87Alp Tau	0.86700	3800.0	110	30246	No
37	GOM_TRA_1PNPDE20071213_022106_000000372064_00132_30246_4754.N1	13-DEC-2007 02:21:06	Bright	37.000	149	45Eps Per	2.8880	30000.	74	30246	No
38	GOM_TRA_1PNPDE20071213_022316_000000342064_00132_30246_4755.N1	13-DEC-2007 02:23:16	Bright	33.500	175	39Del Per	3.0100	19400.	67	30246	No
39	GOM_TRA_1PNPDE20071213_022456_000000352064_00132_30246_4756.N1	13-DEC-2007 02:24:56	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	30246	No
40	GOM_TRA_1PNPDE20071213_023458_000000352064_00132_30246_4757.N1	13-DEC-2007 02:34:58	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30246	No
41	GOM_TRA_1PNPDE20071213_023941_000000372064_00132_30246_4925.N1	13-DEC-2007 02:39:41	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30246	No
42	GOM_TRA_1PNPDE20071213_024428_000000422064_00132_30246_4926.N1	13-DEC-2007 02:44:28	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	30246	No
43	GOM_TRA_1PNPDE20071213_024655_000000392064_00132_30246_4927.N1	13-DEC-2007 02:46:55	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	30246	No
44	GOM_TRA_1PNPDE20071213_025009_000000352064_00132_30246_4928.N1	13-DEC-2007 02:50:09	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30246	No
45	GOM_TRA_1PNPDE20071213_025318_000000532064_00132_30246_4929.N1	13-DEC-2007 02:53:18	Bright	53.000	83		2.3780	11000.	106	30246	No
46	GOM_TRA_1PNPDE20071213_025631_000000392064_00132_30246_4930.N1	13-DEC-2007 02:56:31	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	30246	No
47	GOM_TRA_1PNPDE20071213_030609_000000502064_00132_30246_4931.N1	13-DEC-2007 03:06:09	Twilight	49.500	15	67Alp Vir	0.97600	28000.	99	30246	No
48	GOM_TRA_1PNPDE20071213_030938_000000452064_00132_30246_4932.N1	13-DEC-2007 03:09:38	Twilight	44.500	169	46Gam Hya	2.9910	4700.0	89	30246	No
49	GOM_TRA_1PNPDE20071213_031132_000000392064_00132_30246_4933.N1	13-DEC-2007 03:11:32	Twilight	39.000	54	5The Cen	2.0550	4500.0	78	30246	No
50	GOM_TRA_1PNPDE20071213_031256_000000402064_00132_30246_4934.N1	13-DEC-2007 03:12:56	Dark	39.500	123	lot Cen	2.7500	10200.	79	30246	No

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



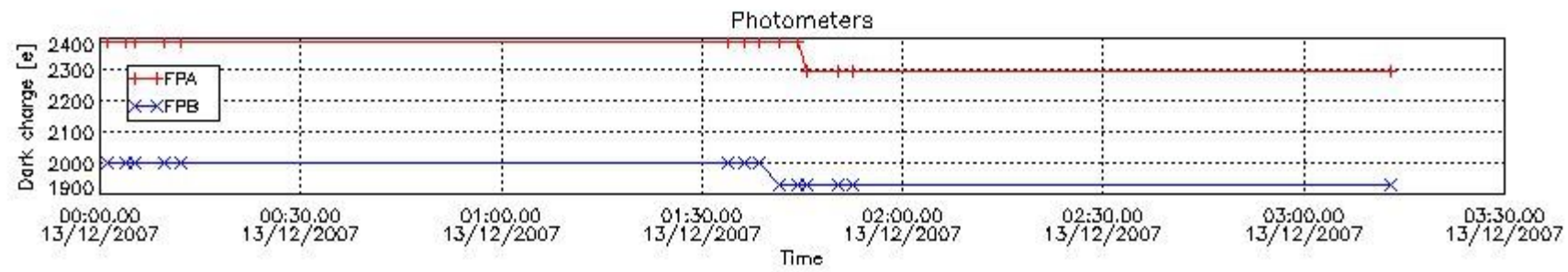
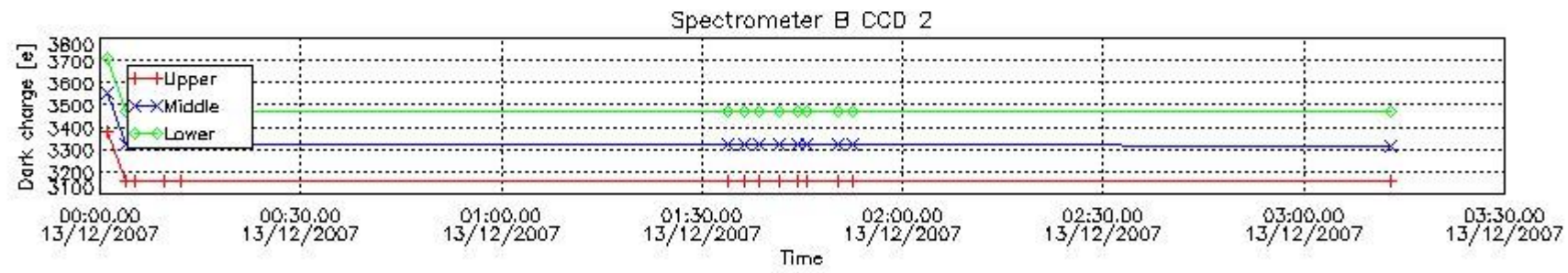
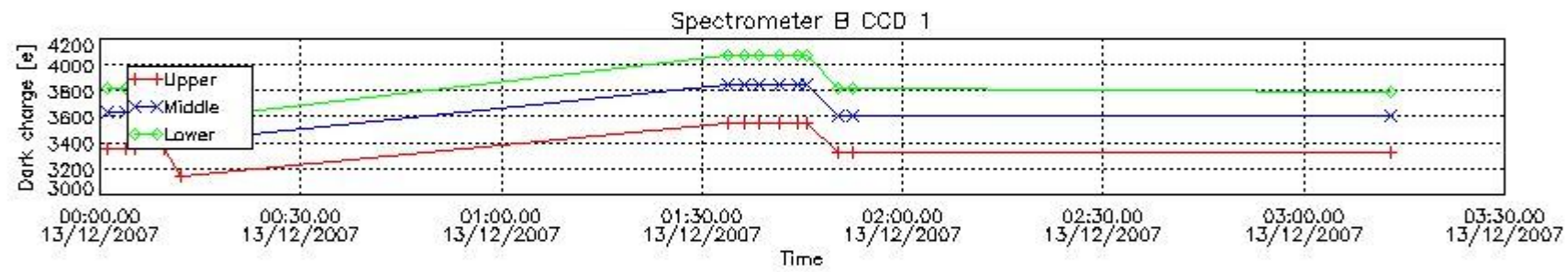
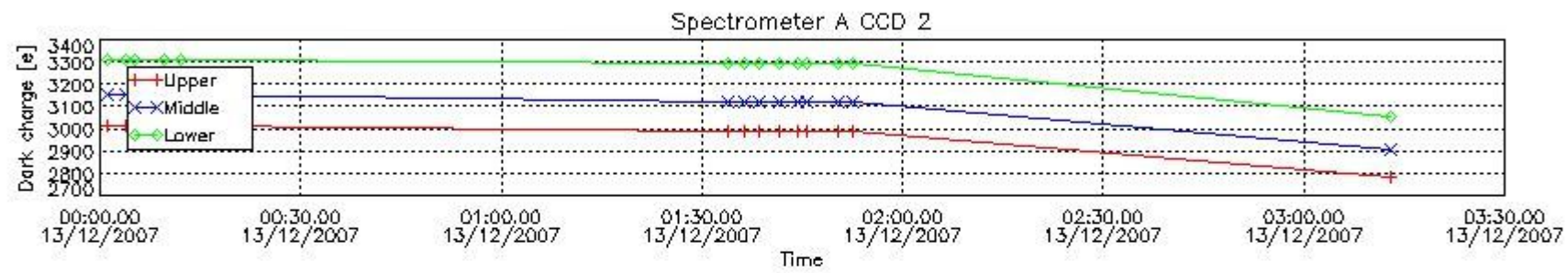
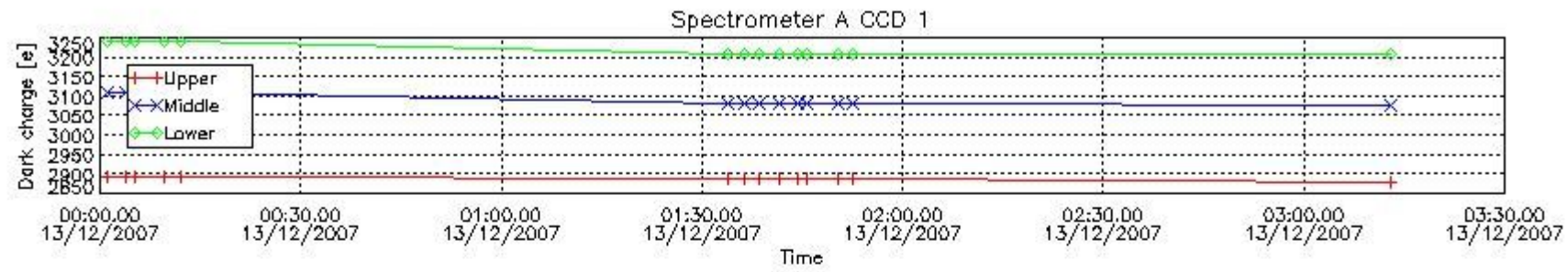
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



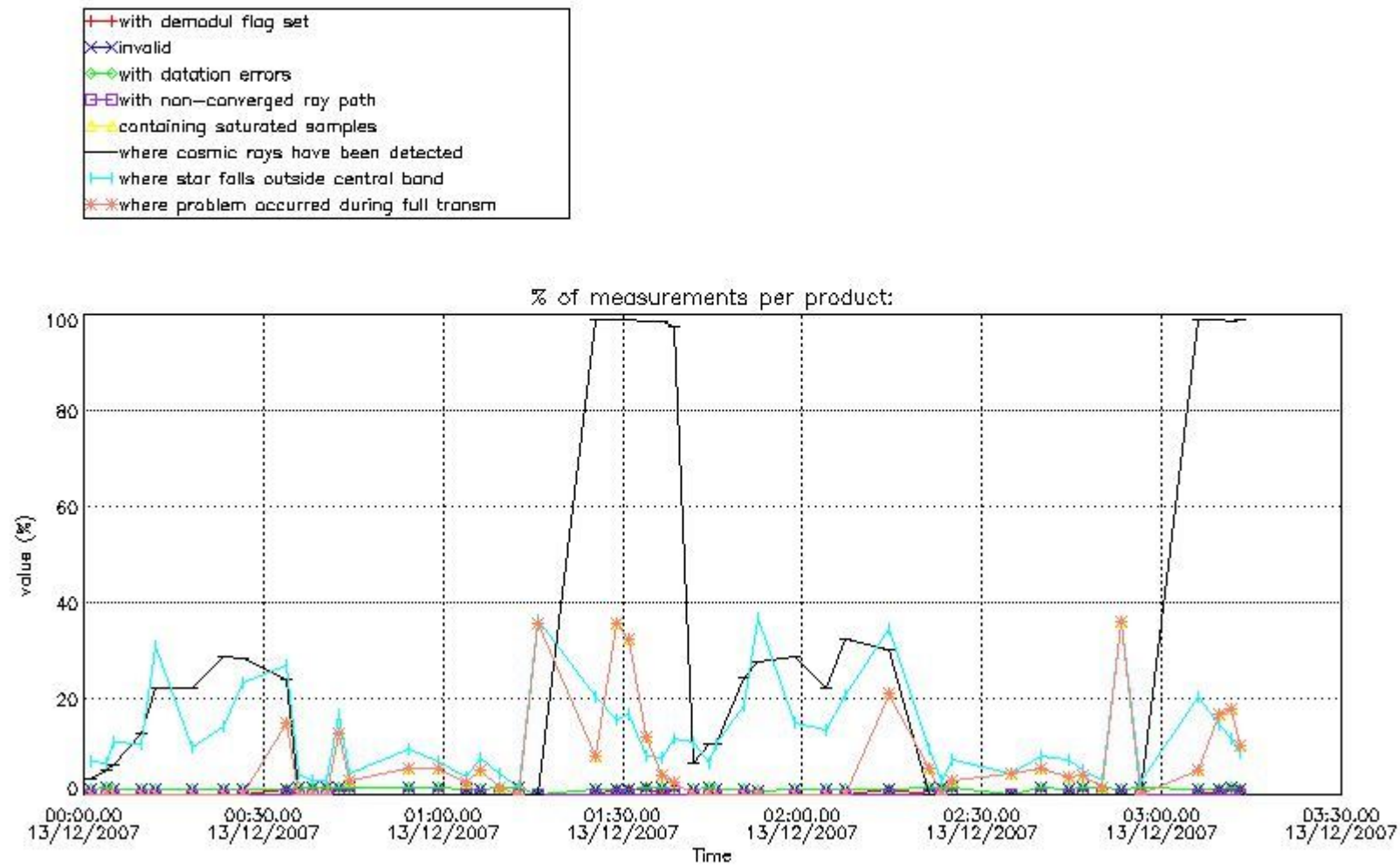
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

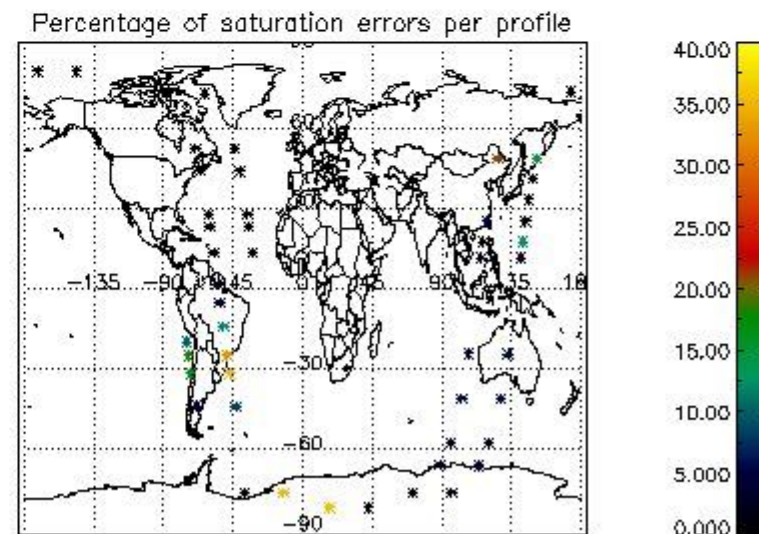
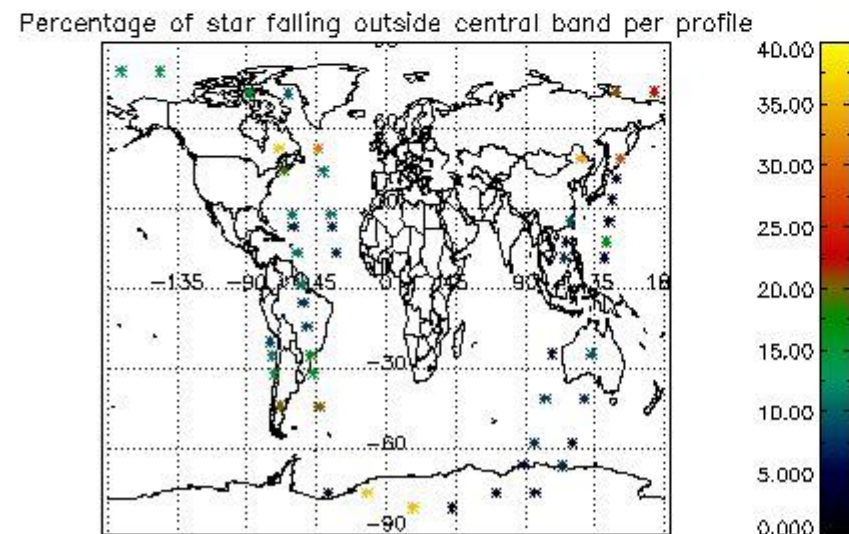
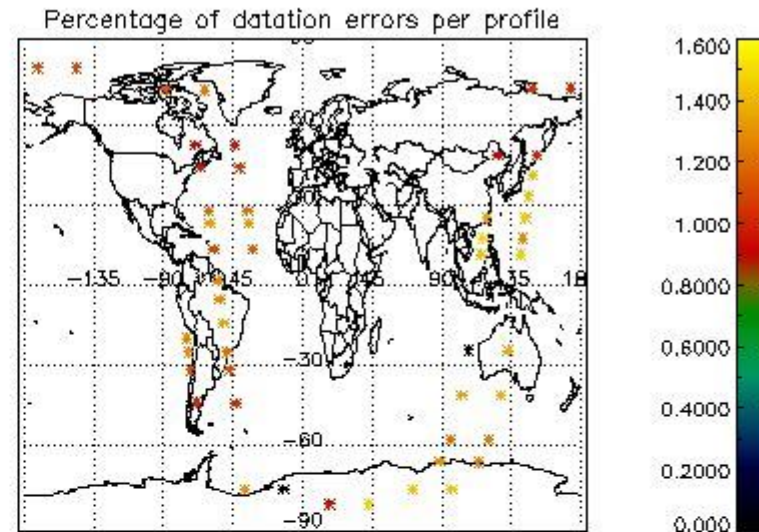
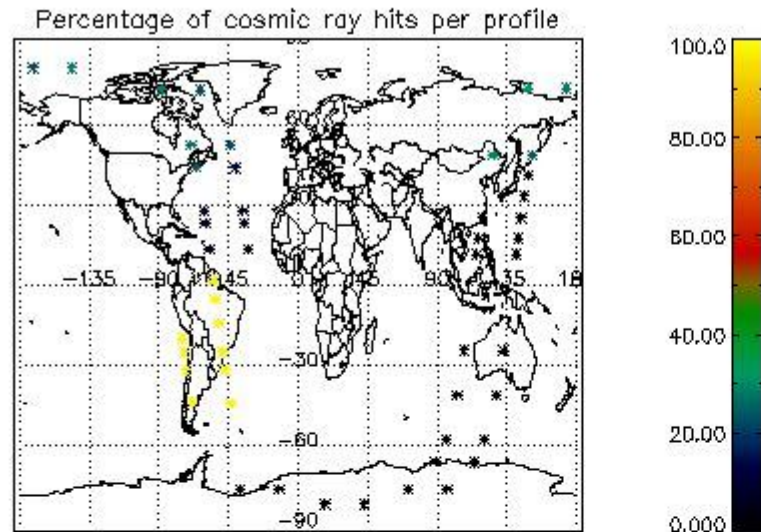
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



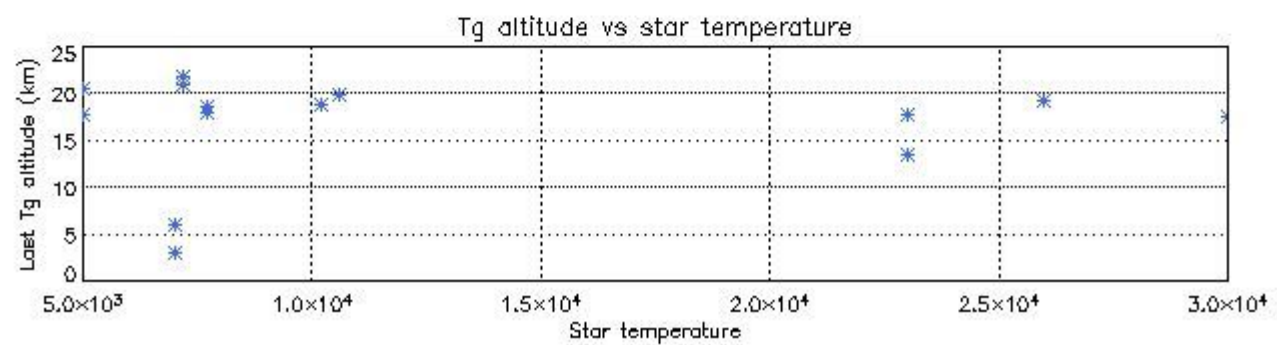
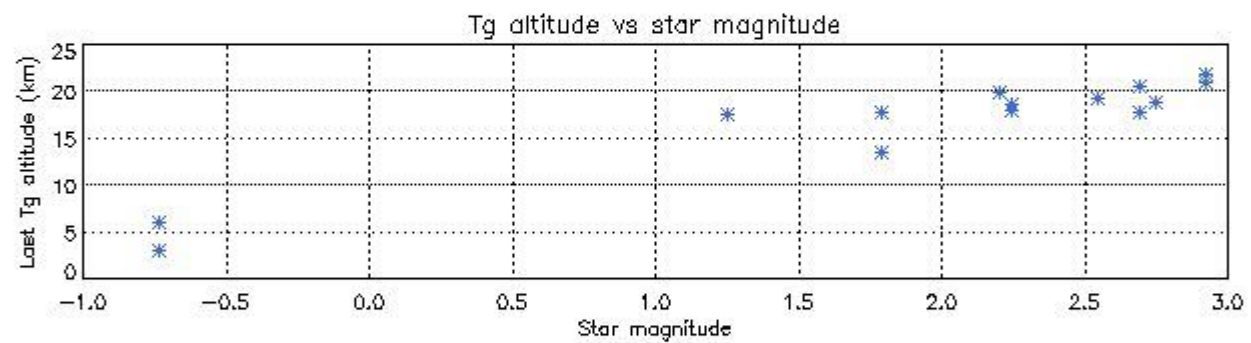
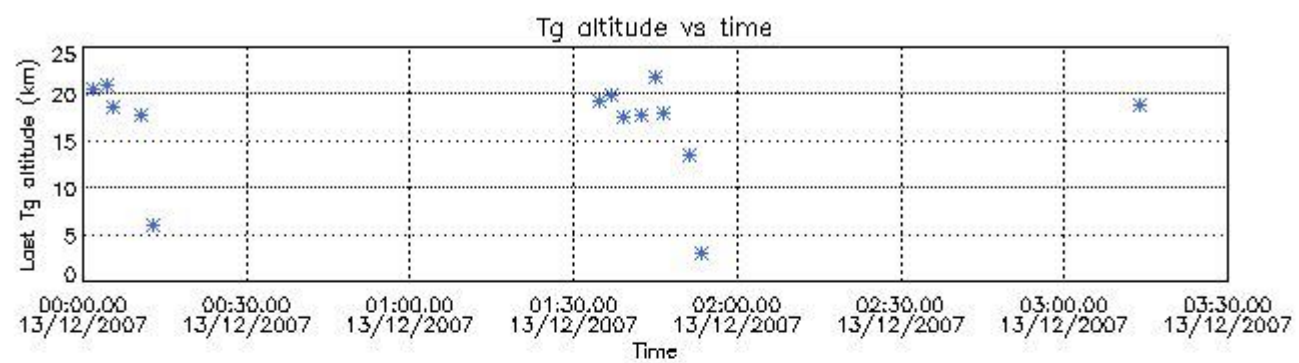
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.664	20.351	14.594
St. deviation:	5.5479	5.6815	1.3204
Maximum:	21.828	25.811	16.347
Minimum:	3.0778	4.3672	13.287
Number of data:	14.000	22.000	4.0000

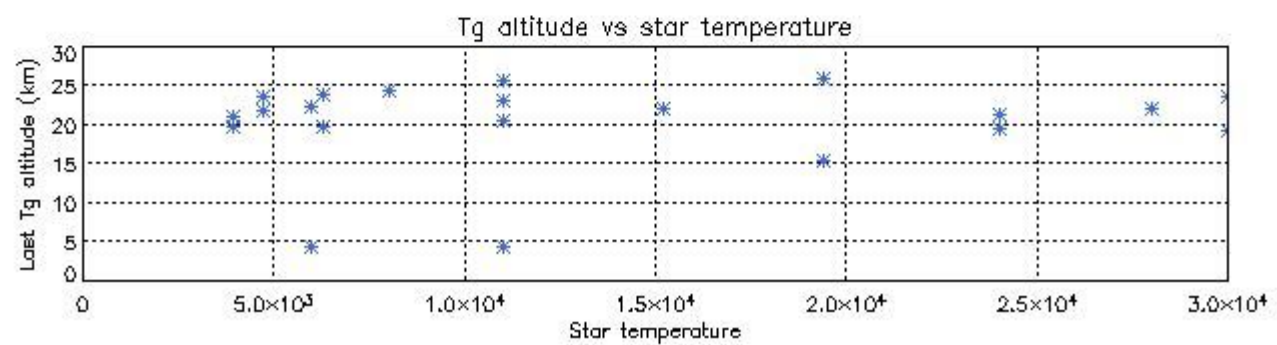
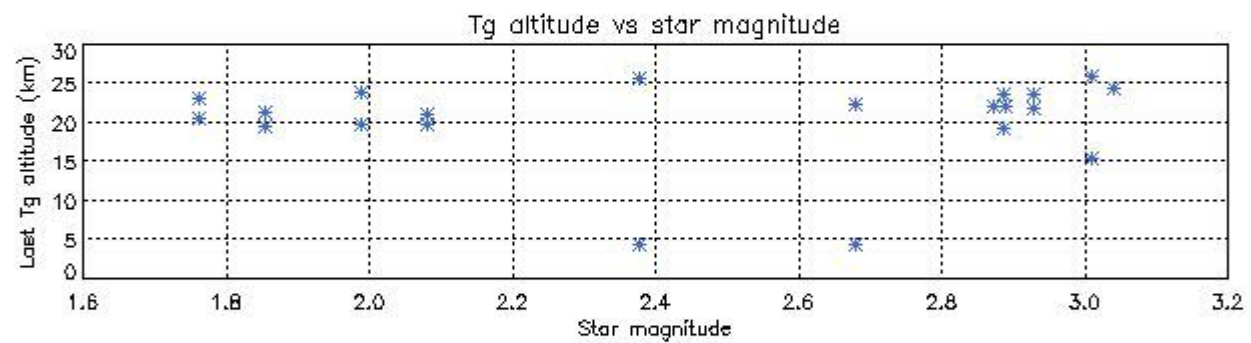
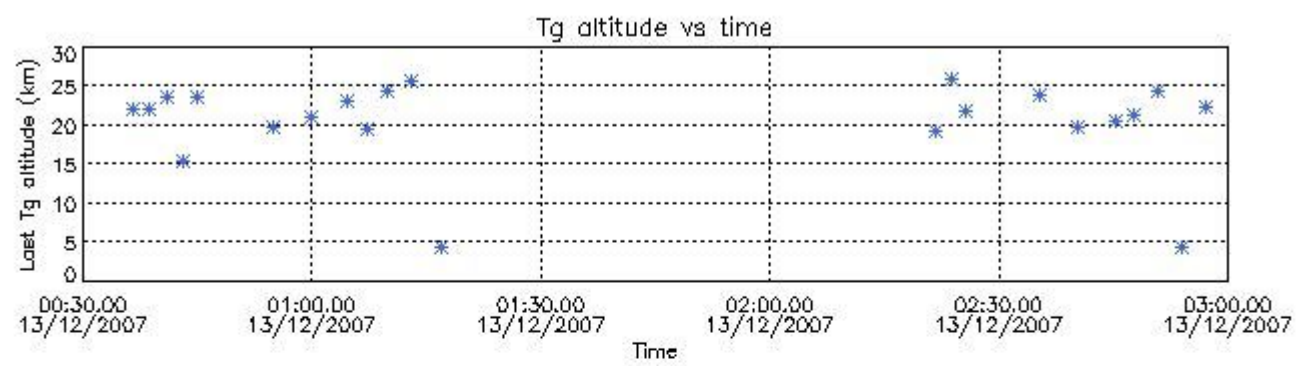
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



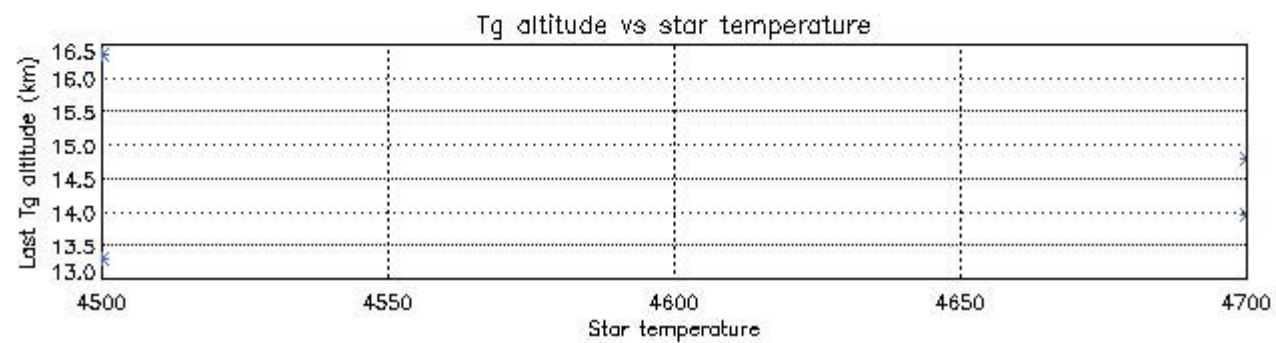
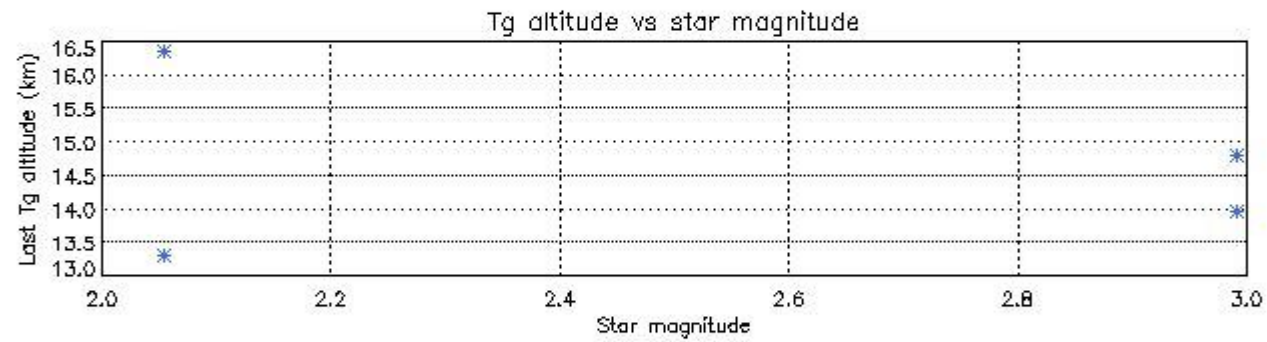
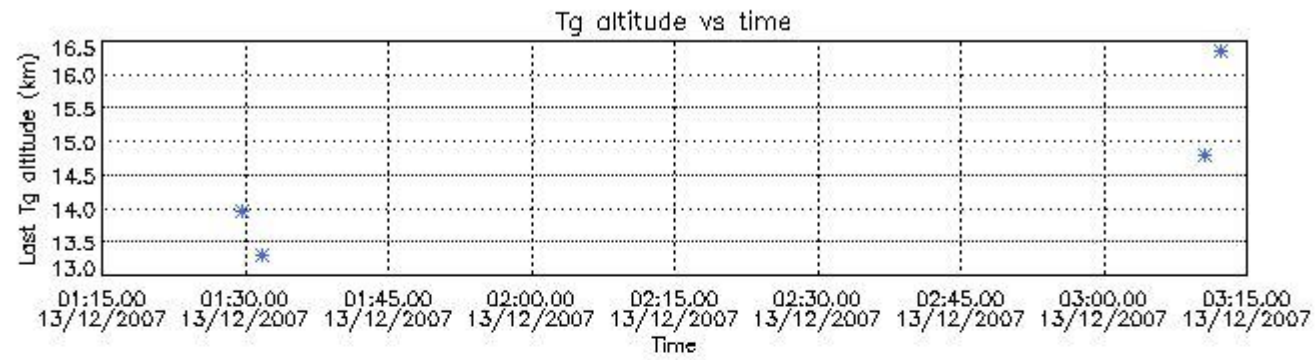
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

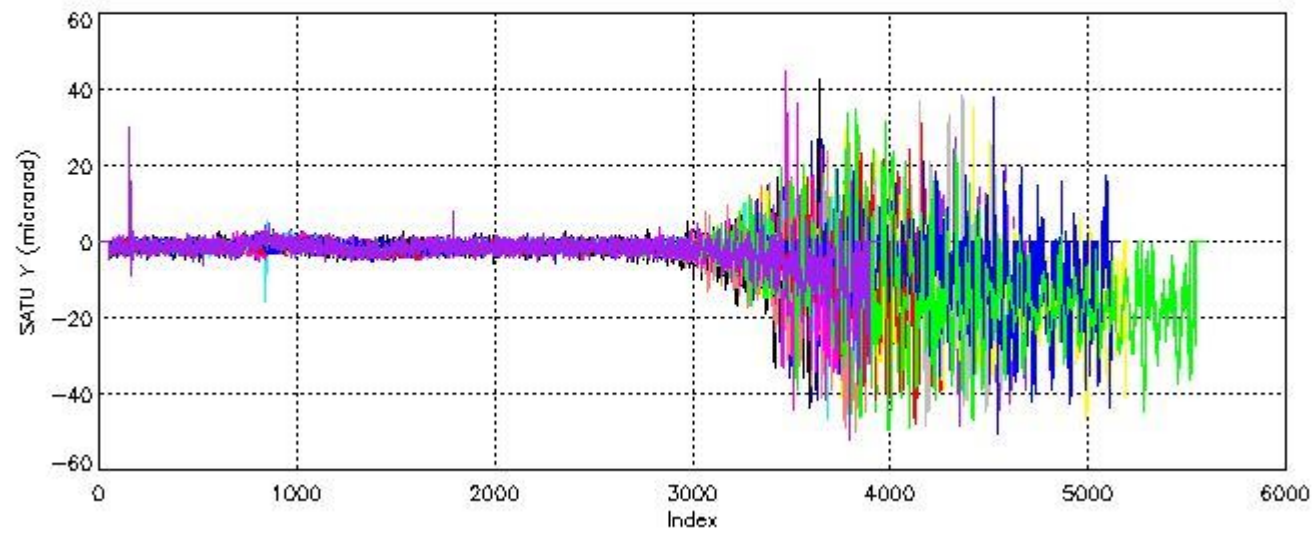
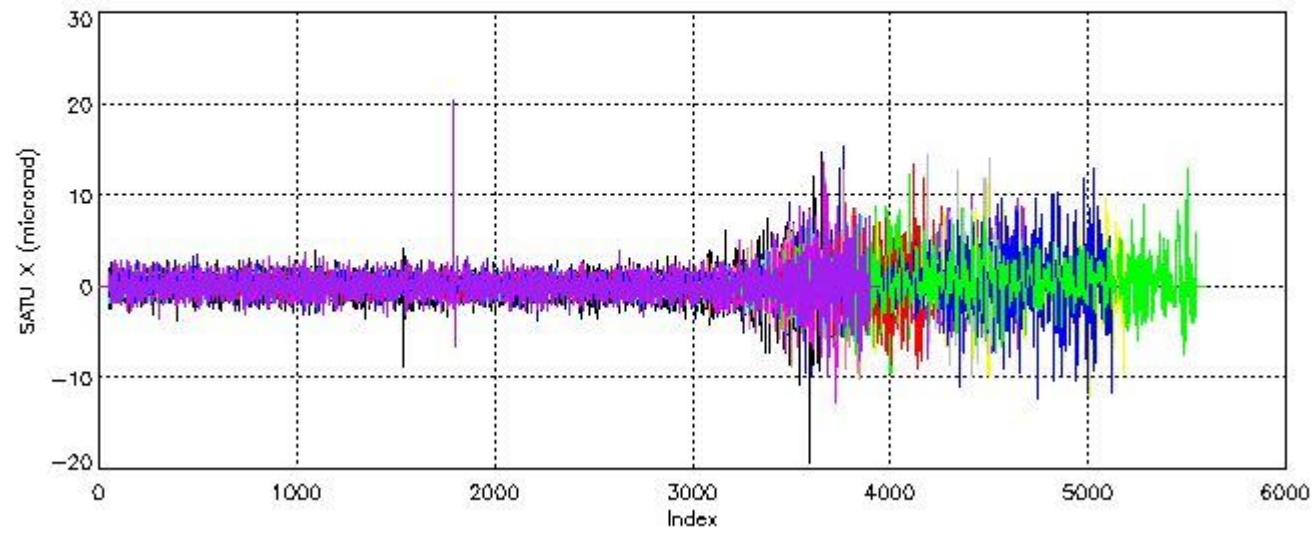


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.18234	-1.2480	0.082406	-1.1773
St. deviation:	0.59807	0.91209	0.95946	1.3737
Maximum:	3.4000	29.900	7.2000	5.8000
Minimum:	-3.8000	-15.600	-5.5000	-7.7000

Number of data:	13300.	13300.	18500.	18500.
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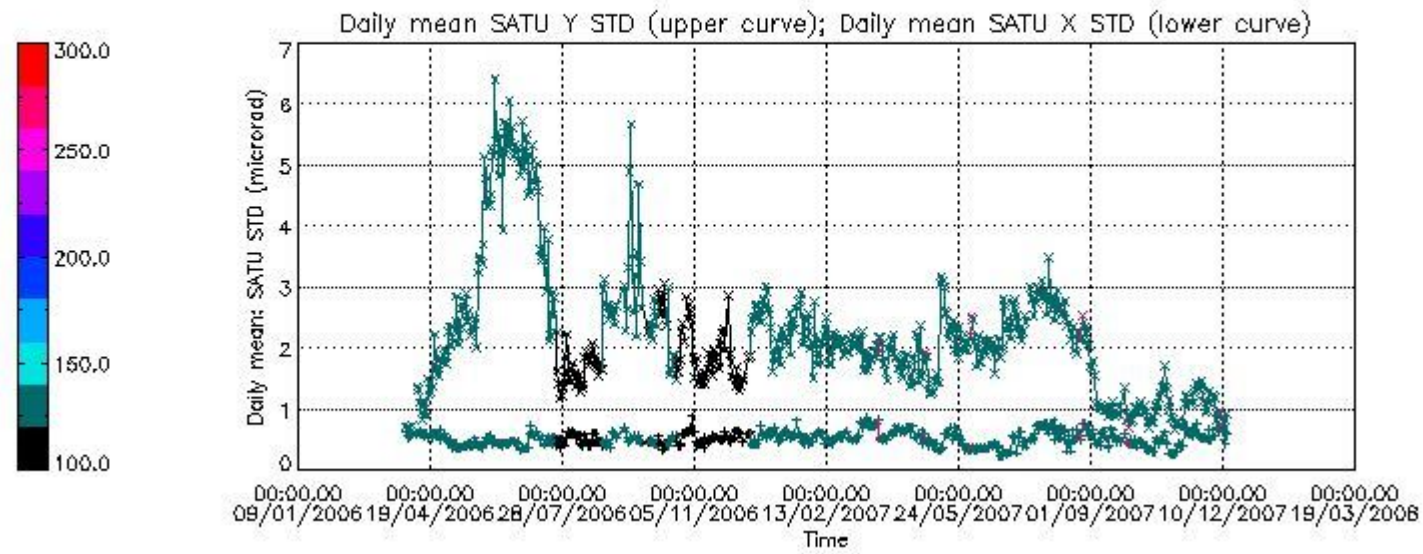
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

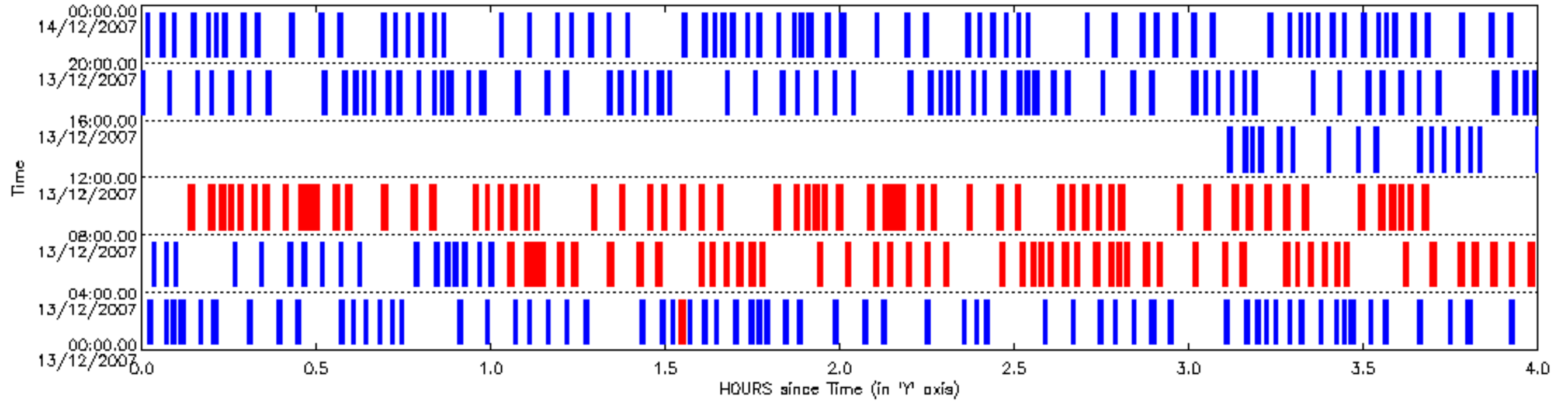
Lower curve: STD of SATU X axis

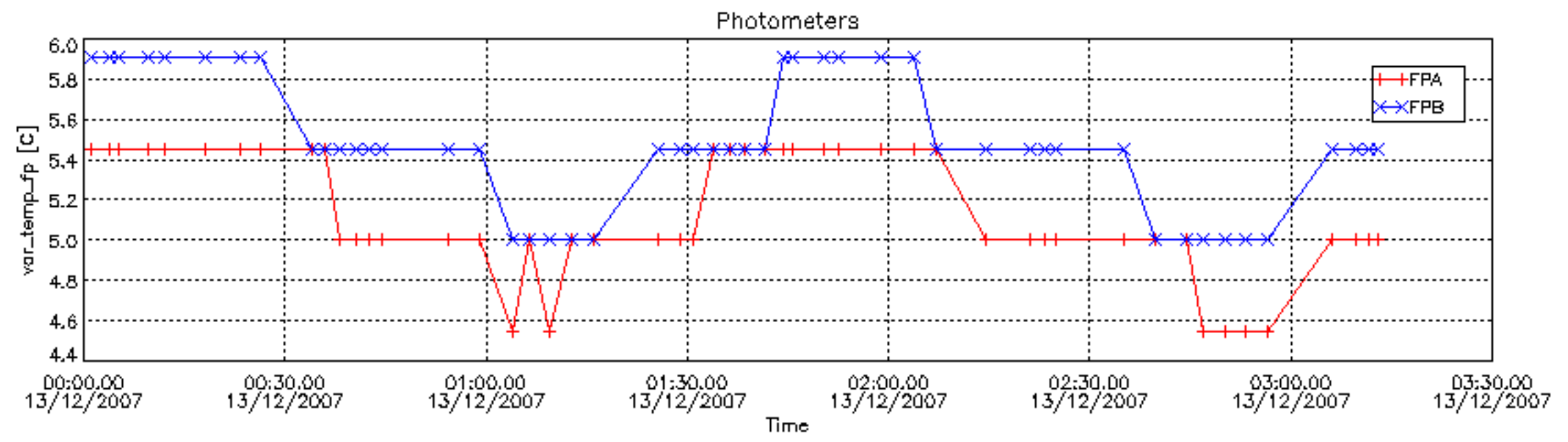
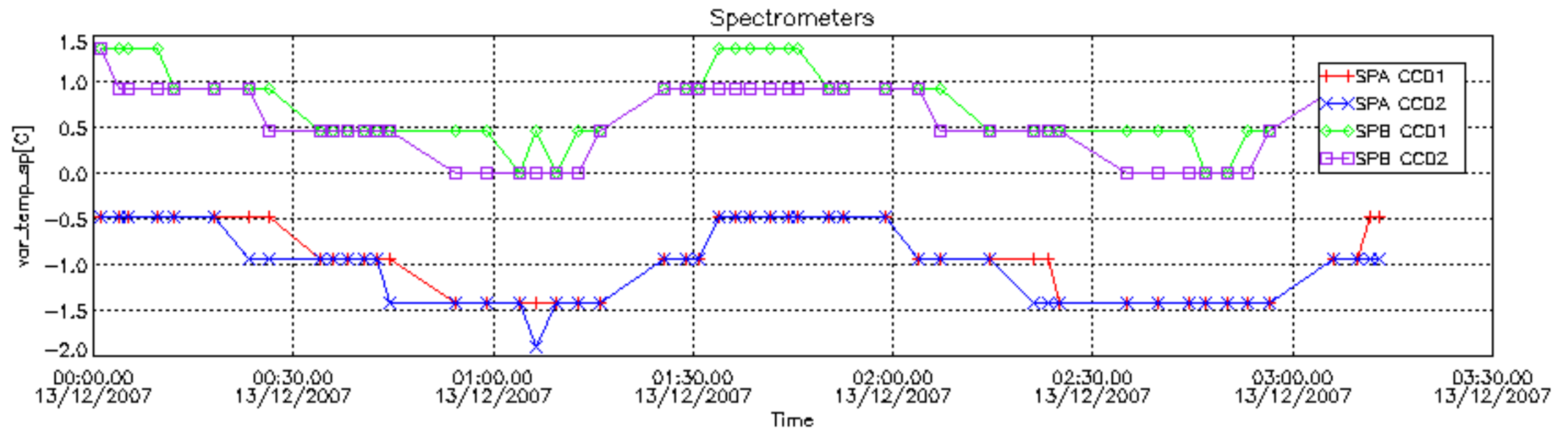


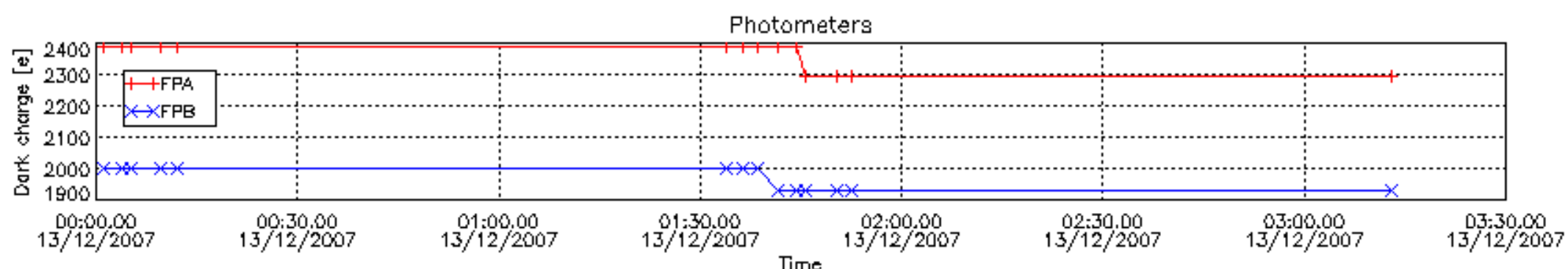
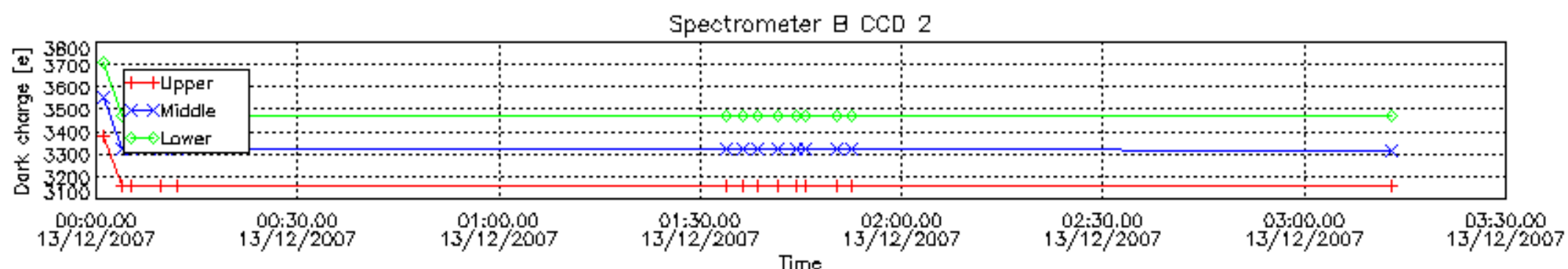
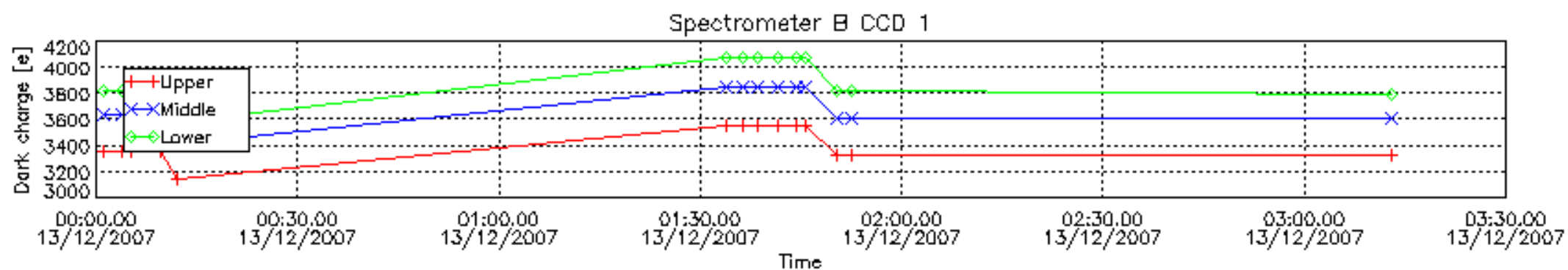
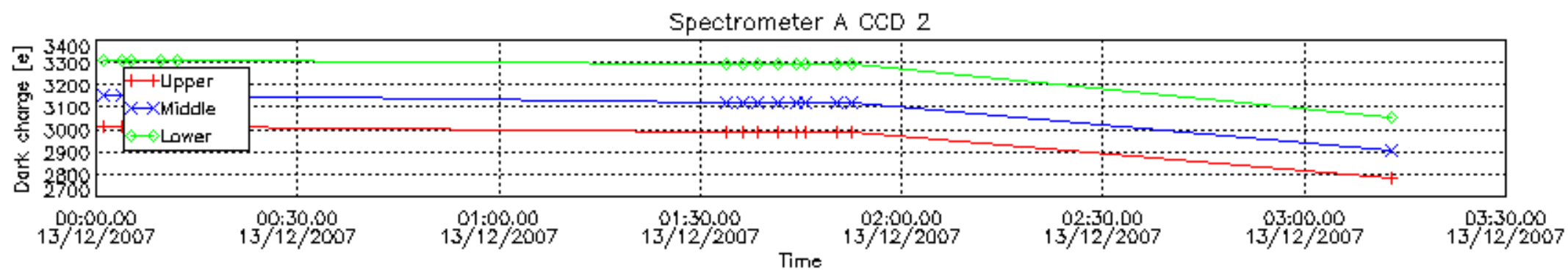
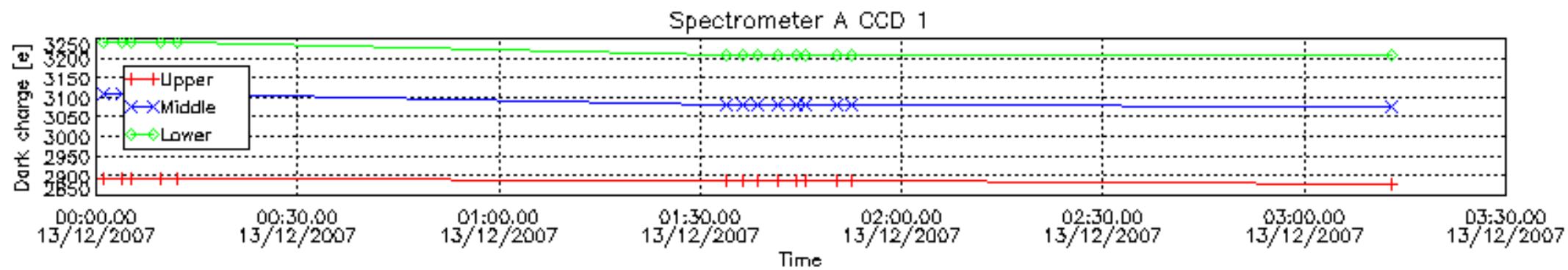
8. Auxiliary Data Files used for the production reported in section 2.4

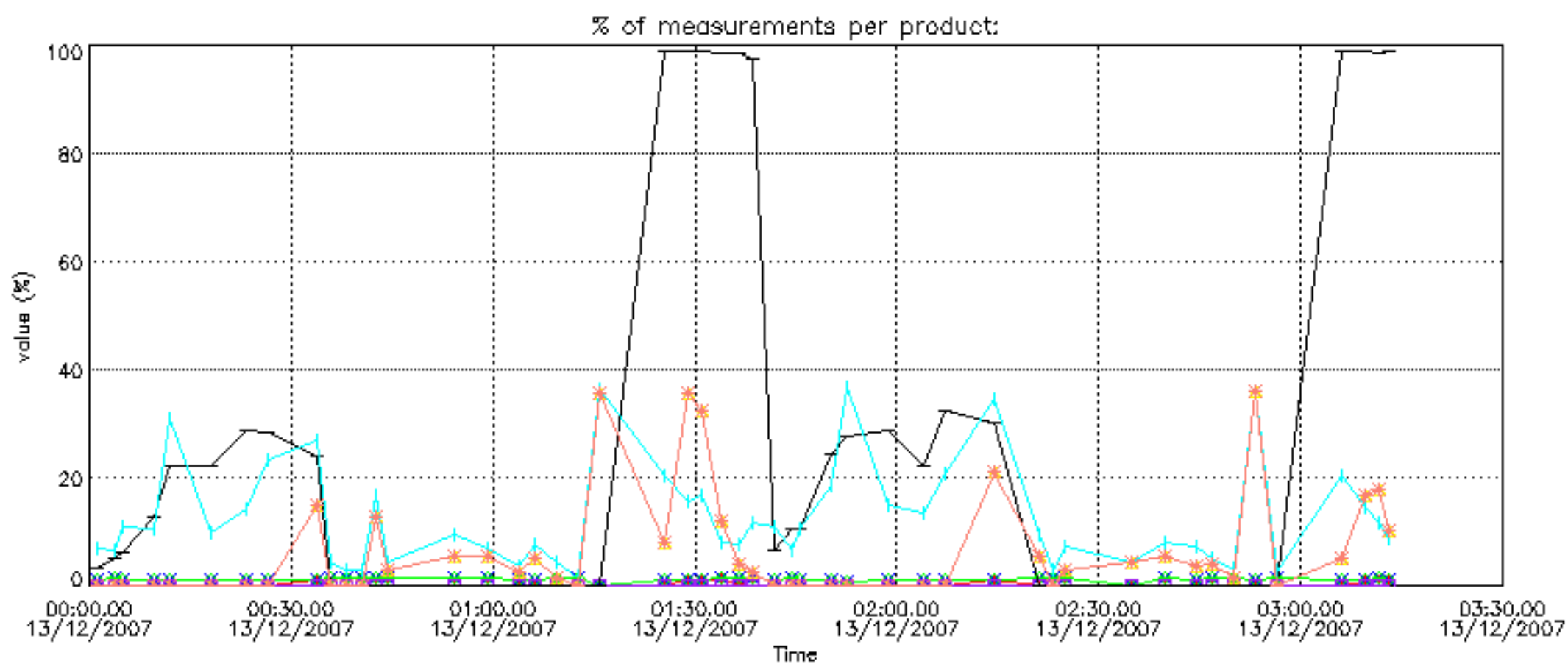
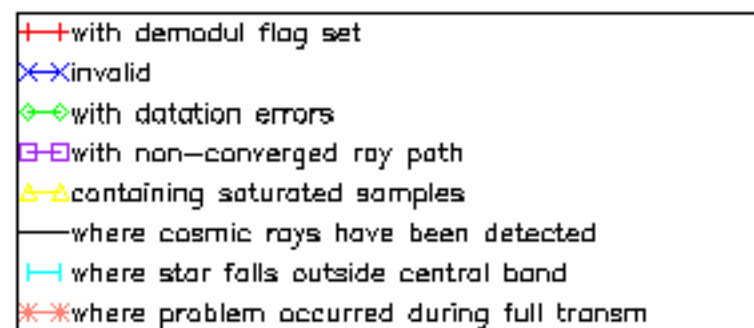
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-DEC-2007 00:01:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071207_090506_20071205_000000_20100101_000000	1	13-DEC-2007 00:01:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-DEC-2007 00:01:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-DEC-2007 00:01:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-DEC-2007 00:01:05
ECMWF_FILE	AUX_ECF_AXNECM20071212_063112_20071212_210000_20071213_090000	1	13-DEC-2007 00:01:05
OPTIONAL_ECMWF_FILE	MISSING	1	13-DEC-2007 00:01:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071212_215911_000060572064_00129_30243_4842.N1	1	13-DEC-2007 00:01:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071212_234527_000054192064_00130_30244_4742.N1	22	13-DEC-2007 01:25:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071213_012105_000041442064_00131_30245_4743.N1	41	13-DEC-2007 02:39:41

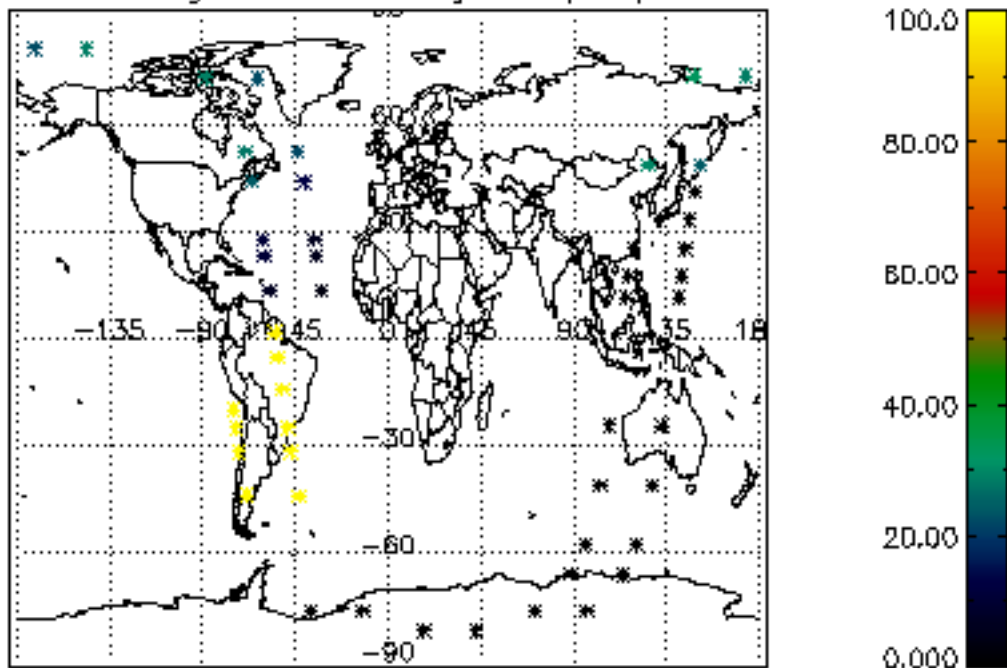




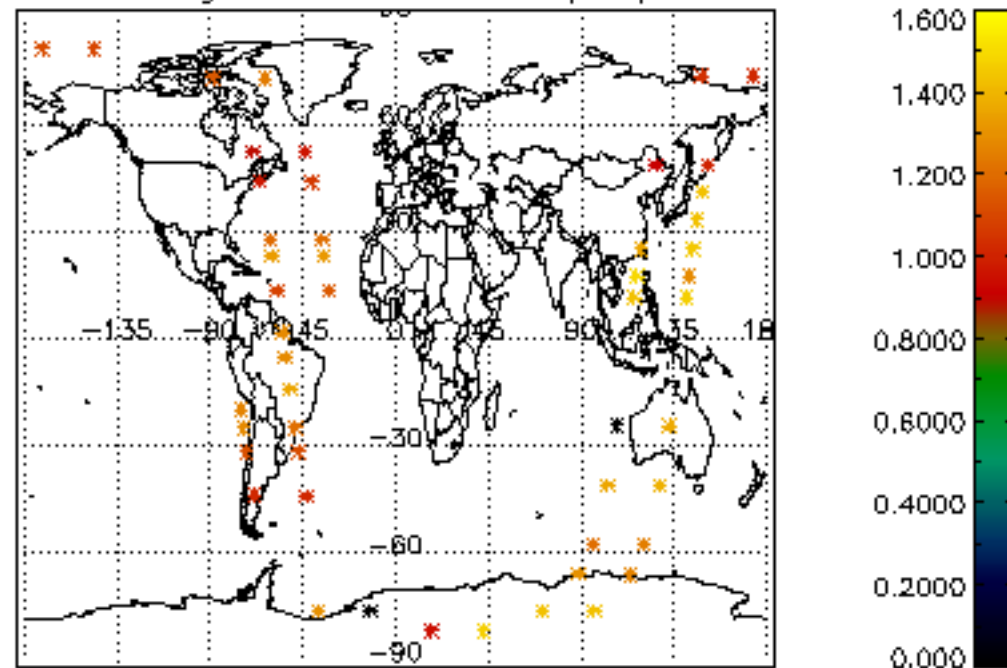




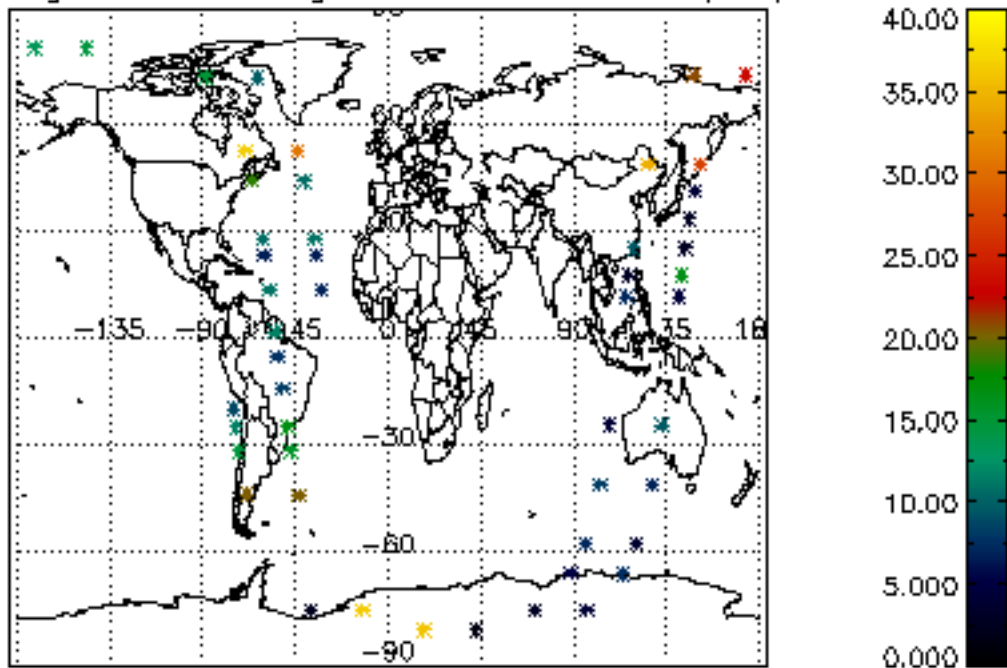
Percentage of cosmic ray hits per profile



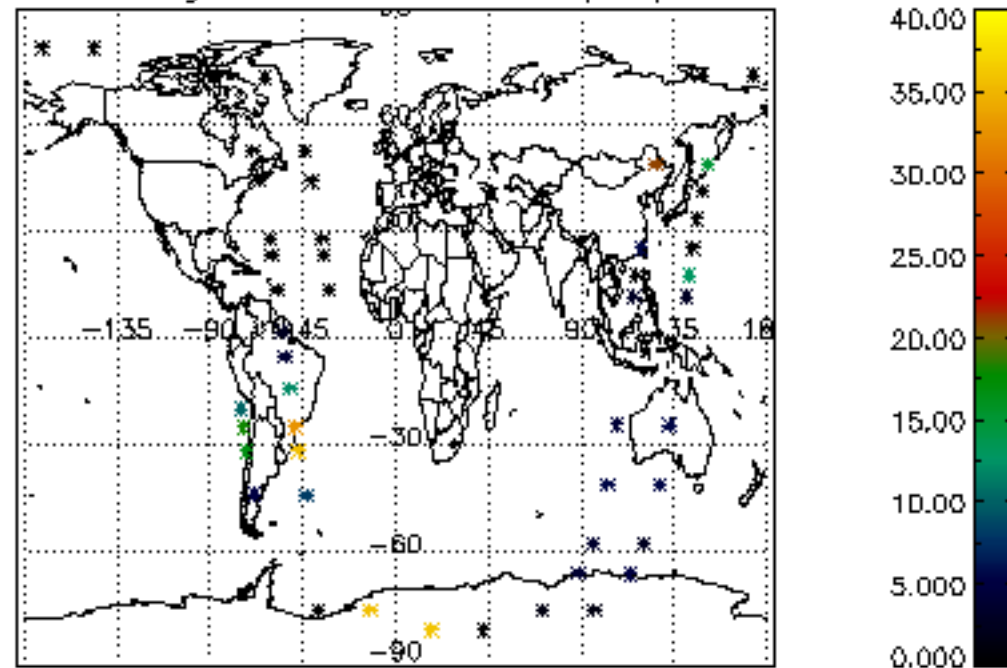
Percentage of datation errors per profile



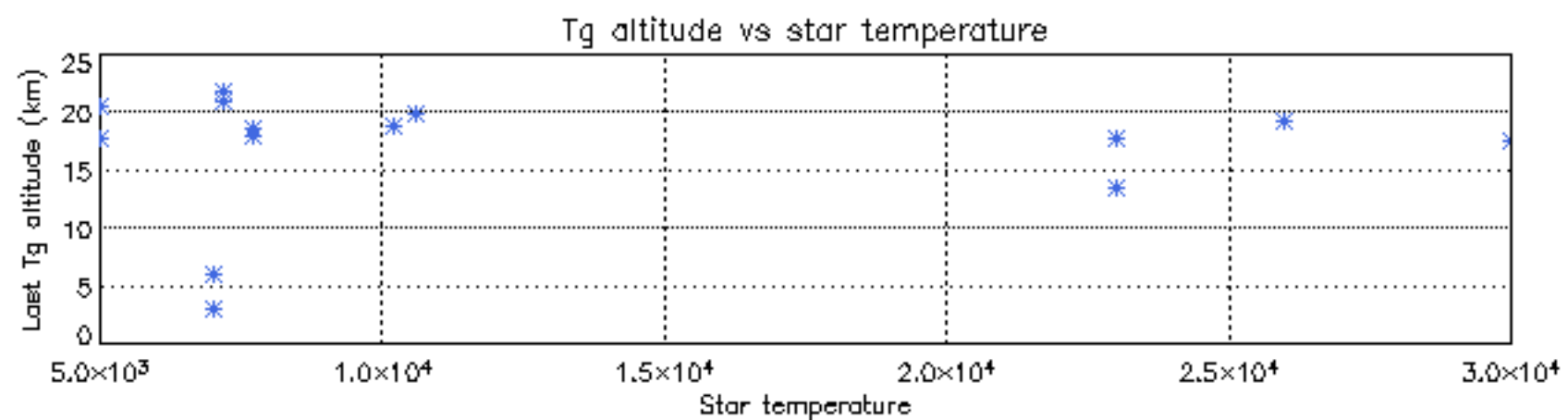
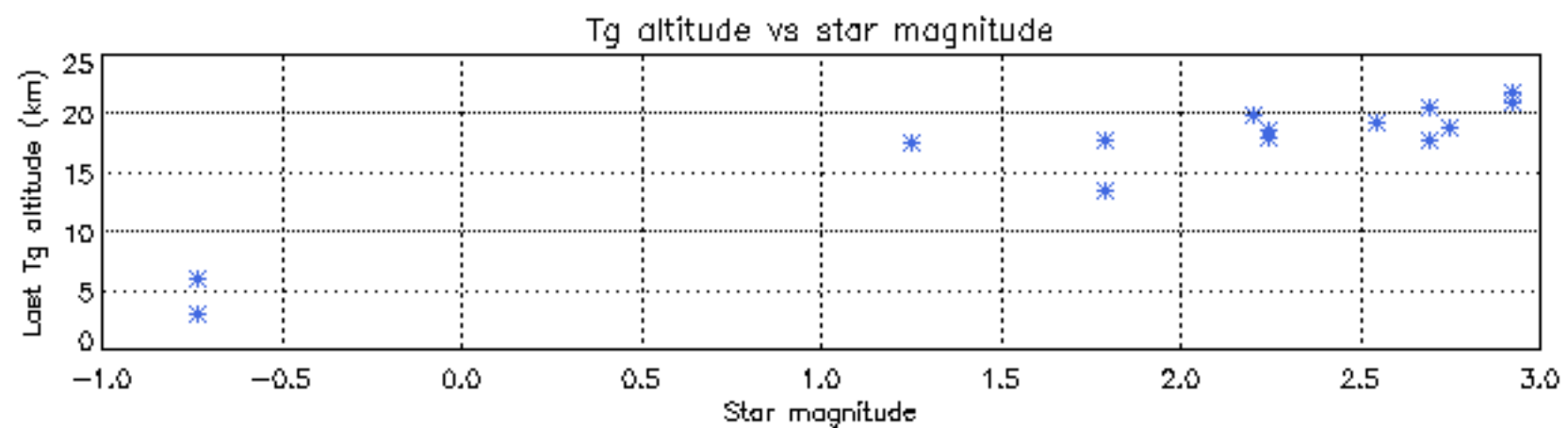
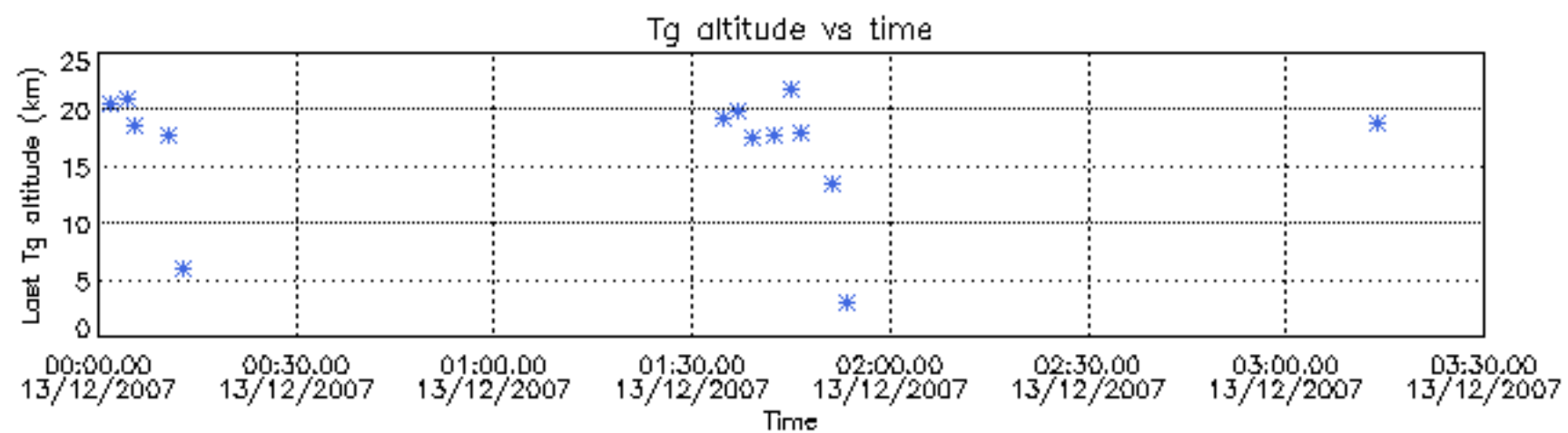
Percentage of star falling outside central band per profile



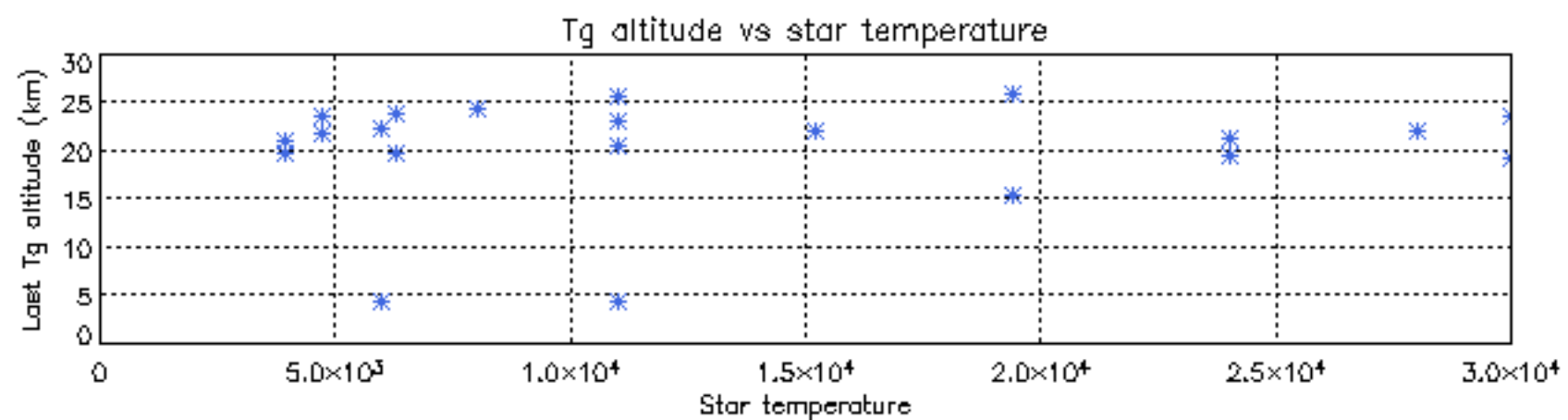
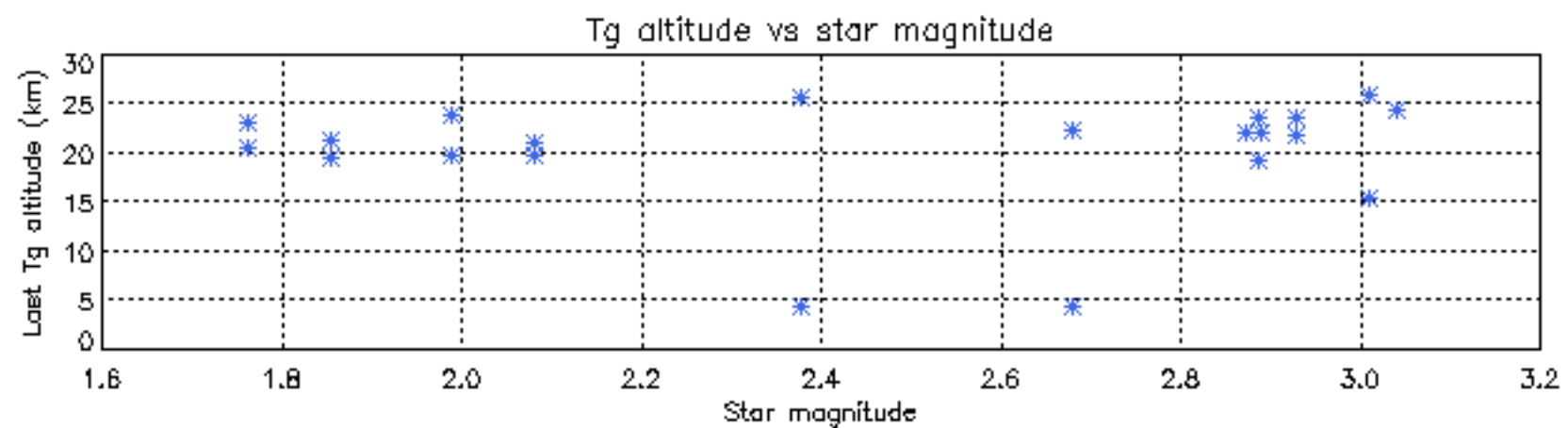
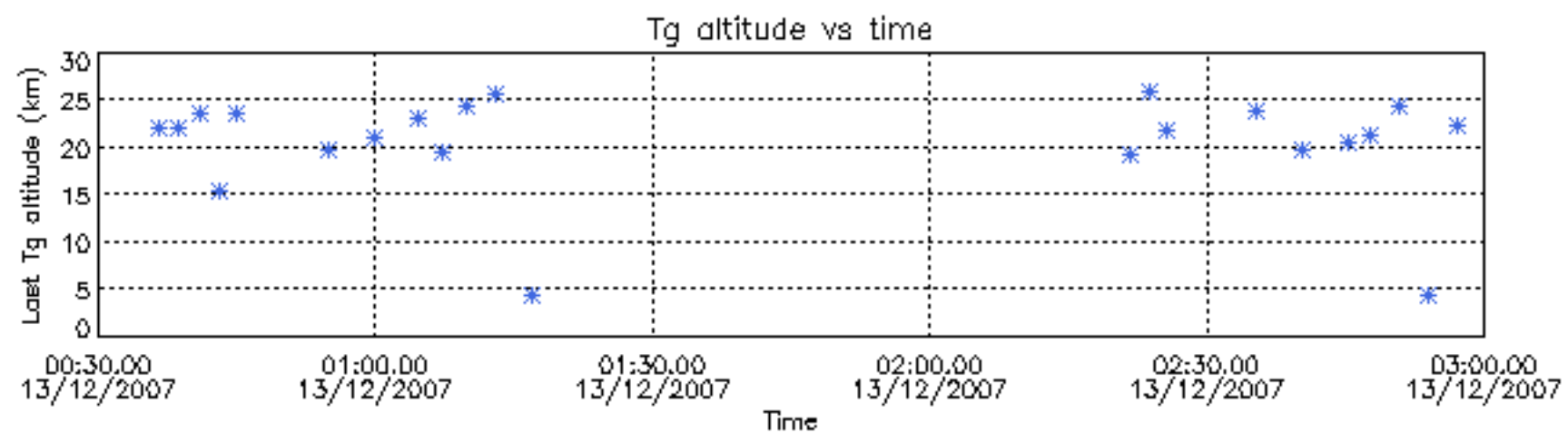
Percentage of saturation errors per profile



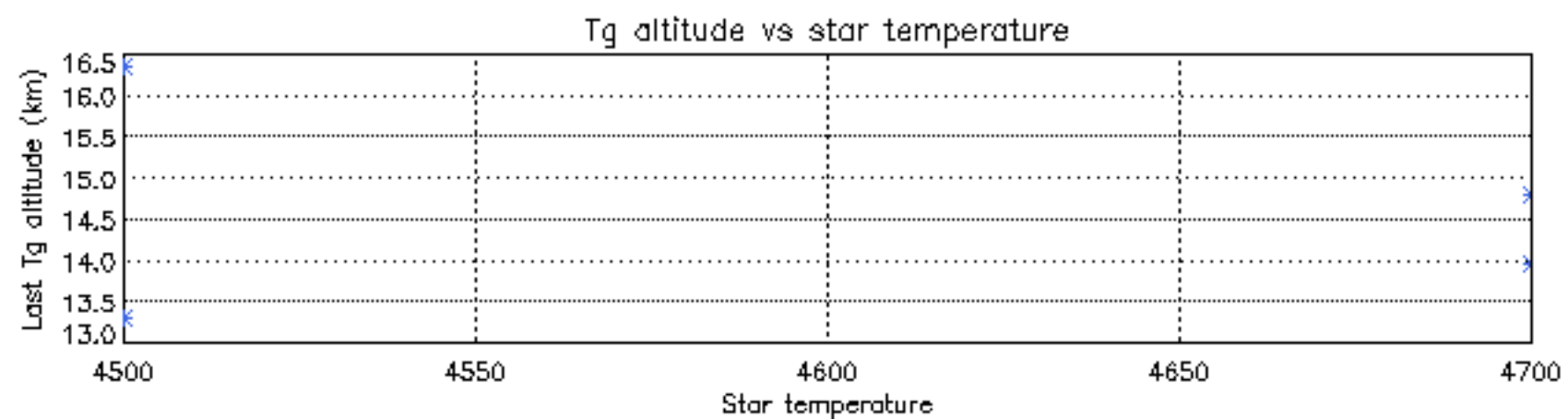
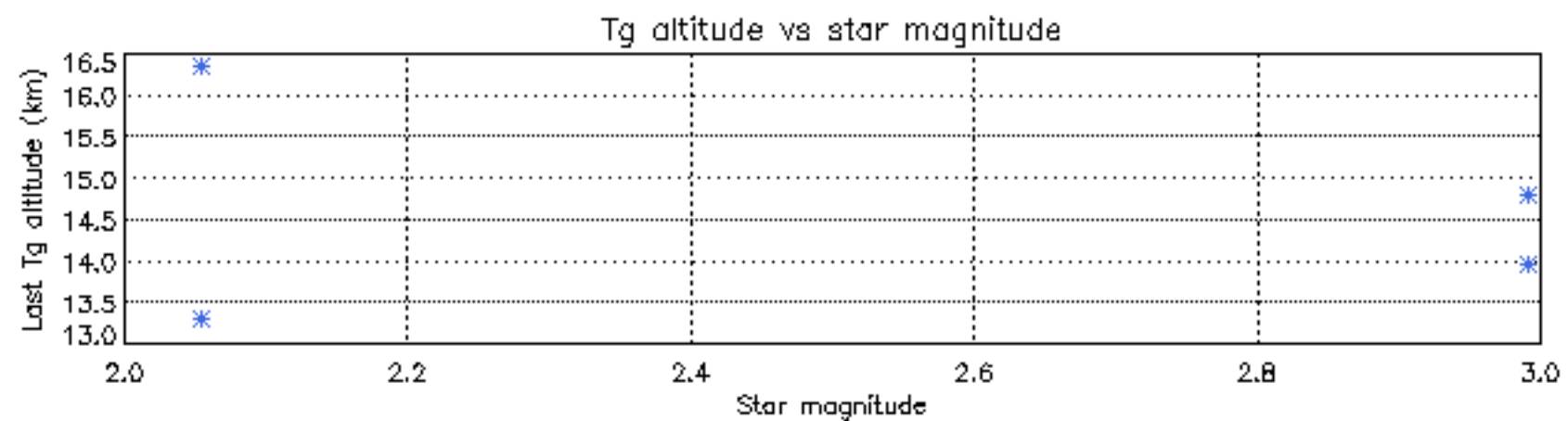
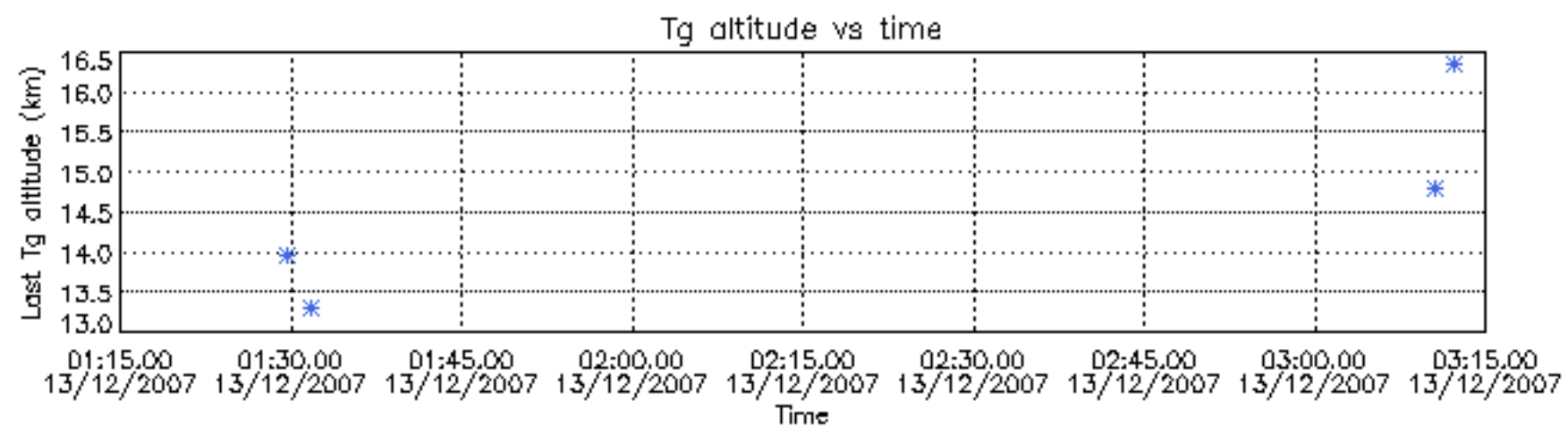
Tangent altitude at which the star is lost

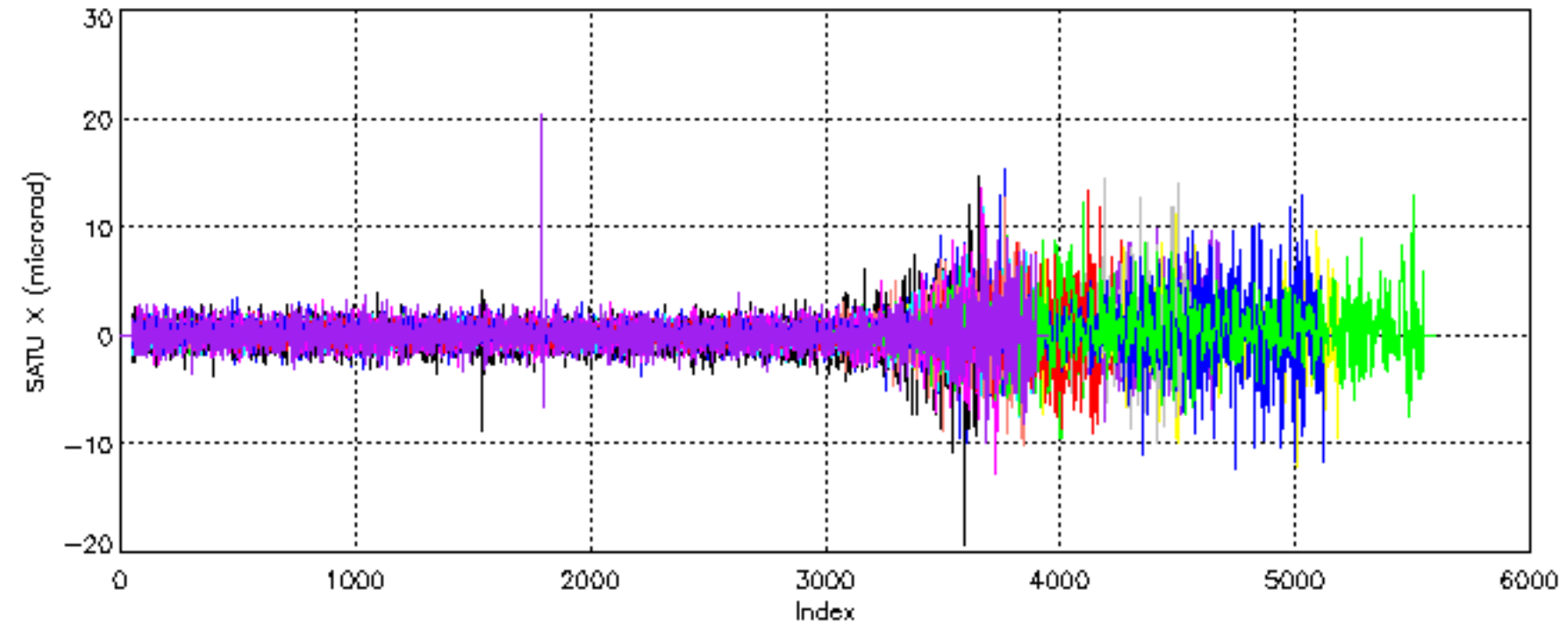


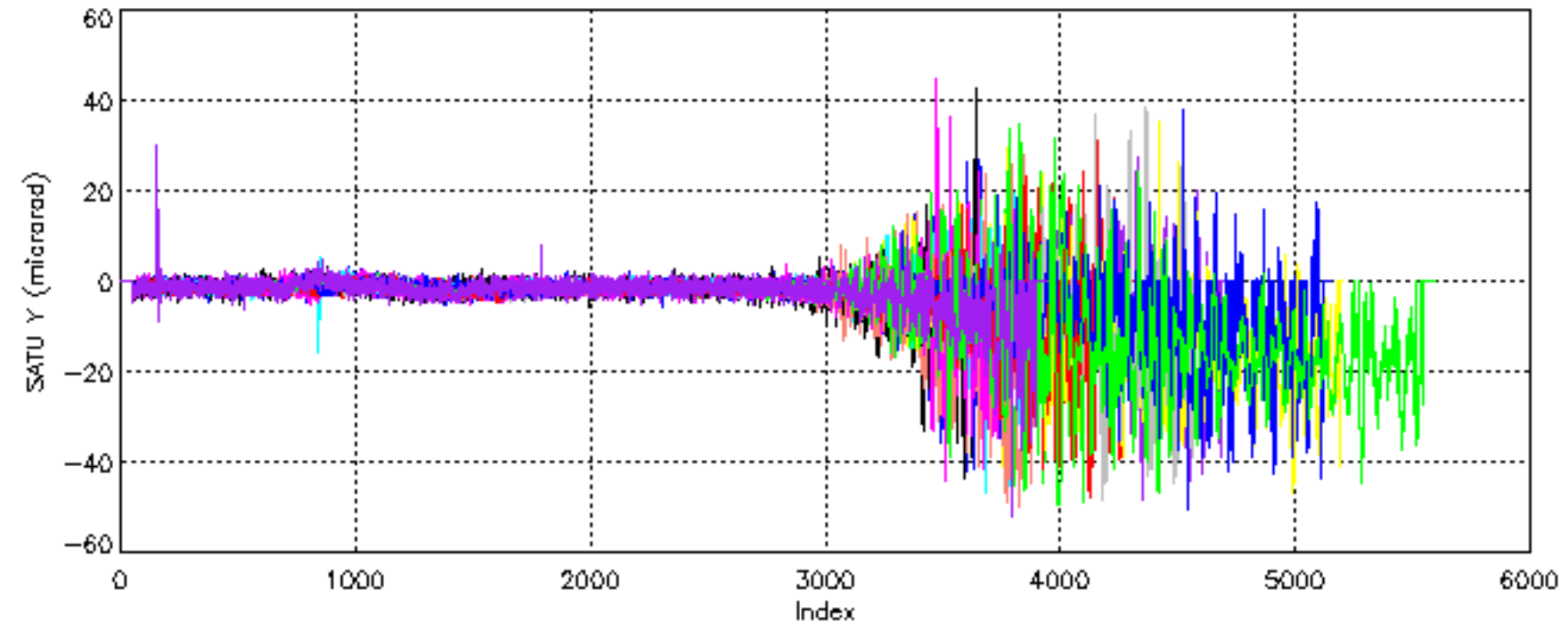
Tangent altitude at which the star is lost

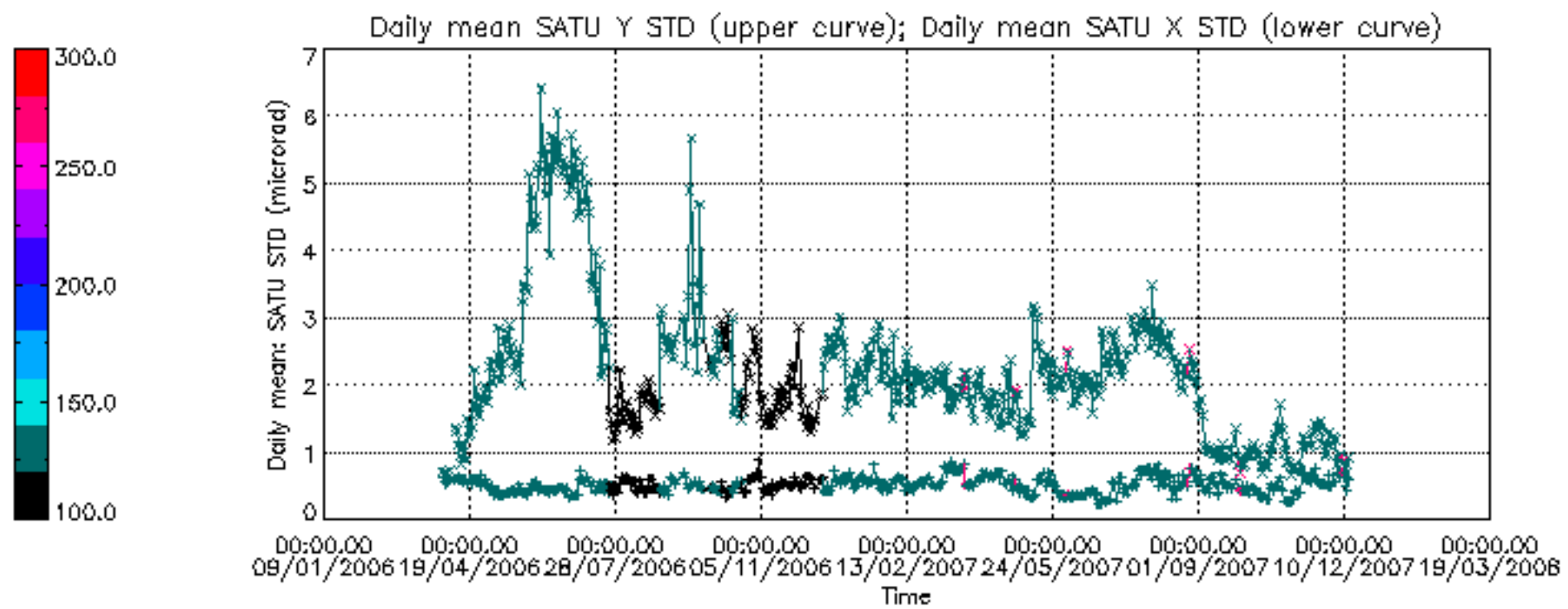


Tangent altitude at which the star is lost









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1; -831.4; 01-DEC-2007 01:01:04; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;30073
 2; -635.3; 01-DEC-2007 01:04:20; Dark ; 45.5; 163; 7Del Crv ; 2.94; 11000;occ; 91; 0;30073
 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073
 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
 5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073
 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
 8; 369.6; 01-DEC-2007 01:21:05; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30074
 9; 481.6; 01-DEC-2007 01:22:57; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30074
 10; 803.9; 01-DEC-2007 01:28:19; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30074
 11; 1658.7; 01-DEC-2007 01:42:34; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;30074
 12; 1980.3; 01-DEC-2007 01:47:56; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;30074
 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
 16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071201_021637_000060412063_00461_30074_4849.N1

1; -2334.4; 01-DEC-2007 02:16:37; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30074
 2; -2020.6; 01-DEC-2007 02:21:51; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;30074
 3; -1897.1; 01-DEC-2007 02:23:54; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30074
 4; -1723.4; 01-DEC-2007 02:26:48; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;30074
 5; -1391.6; 01-DEC-2007 02:32:20; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250;occ; 68; 0;30074
 6; -1178.1; 01-DEC-2007 02:35:53; Bright; 39.5; 138; 47Eps Vir ; 2.83; 4700;occ; 79; 0;30074
 7; -830.9; 01-DEC-2007 02:41:40; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;30074
 8; -634.5; 01-DEC-2007 02:44:57; Dark ; 43.5; 163; 7Del Crv ; 2.94; 11000;occ; 87; 0;30074
 9; -536.8; 01-DEC-2007 02:46:34; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;30074
 10; -415.6; 01-DEC-2007 02:48:36; Dark ; 37.0; 123; Iot Cen ; 2.75; 10200;occ; 74; 0;30074
 11; -144.6; 01-DEC-2007 02:53:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30074
 12; -46.3; 01-DEC-2007 02:54:45; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;30074
 13; 83.9; 01-DEC-2007 02:56:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;30075
 14; 203.0; 01-DEC-2007 02:58:54; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30075
 15; 370.0; 01-DEC-2007 03:01:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30075
 16; 482.2; 01-DEC-2007 03:03:33; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30075
 17; 804.5; 01-DEC-2007 03:08:56; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30075
 18; 1658.9; 01-DEC-2007 03:23:10; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;30075
 19; 1980.5; 01-DEC-2007 03:28:32; Dark ; 42.5; 94; 92Alp Cet ; 2.53; 3100;occ; 85; 0;30075
 20; 2329.8; 01-DEC-2007 03:34:21; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;30075
 21; 2472.2; 01-DEC-2007 03:36:43; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30075
 22; 2605.8; 01-DEC-2007 03:38:57; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;30075
 23; 2739.4; 01-DEC-2007 03:41:10; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;30075
 24; 2818.6; 01-DEC-2007 03:42:30; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;30075
 25; 3421.9; 01-DEC-2007 03:52:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30075
 26; 3701.7; 01-DEC-2007 03:57:13; Bright; 5.0; 60; 7Bet UMi ; 2.08; 3950;occ; 10; 0;30075

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1; -2334.3; 01-DEC-2007 03:57:13; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30075
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 3; -1897.3; 01-DEC-2007 04:04:30; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0;30075
 4; -1723.2; 01-DEC-2007 04:07:24; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;30075
 5; -1391.4; 01-DEC-2007 04:12:56; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250;occ; 68; 0;30075
 6; -1177.6; 01-DEC-2007 04:16:30; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30075
 7; -830.6; 01-DEC-2007 04:22:17; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;30075
 8; -633.9; 01-DEC-2007 04:25:33; Dark ; 42.0; 163; 7Del Crv ; 2.94; 11000;occ; 84; 0;30075
 9; -536.2; 01-DEC-2007 04:27:11; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;30075
 10; -415.3; 01-DEC-2007 04:29:12; Dark ; 38.5; 123; Iot Cen ; 2.75; 10200;occ; 77; 0;30075
 11; -144.0; 01-DEC-2007 04:33:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30075
 12; -45.9; 01-DEC-2007 04:35:21; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30075
 13; 84.5; 01-DEC-2007 04:37:32; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30076
 14; 203.3; 01-DEC-2007 04:39:30; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30076
 15; 370.5; 01-DEC-2007 04:42:18; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30076
 16; 482.9; 01-DEC-2007 04:44:10; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30076
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 21; 2472.0; 01-DEC-2007 05:17:19; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30076

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4; 548.7; 22-DEC-2007 10:27:20; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30380
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3; 2188.8; 22-DEC-2007 10:54:40; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30380
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7; 2725.5; 22-DEC-2007 11:03:36; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30380
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11; 3910.8; 22-DEC-2007 11:23:22; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30380
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25; 6722.7; 26-DEC-2007 15:05:33; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30439
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 24; 6621.6; 26-DEC-2007 20:05:40; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30442
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5;	376.6;	27-DEC-2007	01:03:59;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30446
6;	491.3;	27-DEC-2007	01:05:54;	Dark	;	39.0;	159;	Ups Car	;	2.92;	7200;occ;	78;	0;	30446
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17;	2598.6;	27-DEC-2007	01:41:01;	Bright;	;	33.0;	149;	45Eps Per	;	2.89;	30000;occ;	66;	0;	30446
18;	2702.7;	27-DEC-2007	01:42:45;	Bright;	;	40.0;	6;	13Alp Aur	;	0.08;	3400;occ;	80;	0;	30446
19;	3422.9;	27-DEC-2007	01:54:45;	Bright;	;	34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	30446
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21;	3917.1;	27-DEC-2007	02:02:59;	Bright;	;	35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	30446
22;	4409.2;	27-DEC-2007	02:11:11;	Bright;	;	50.0;	133;	40Zet Her	;	2.81;	6000;occ;	100;	0;	30446
23;	4532.3;	27-DEC-2007	02:13:15;	Bright;	;	35.5;	67;	5Alp CrB	;	2.22;	11000;occ;	71;	0;	30446
24;	4869.5;	27-DEC-2007	02:18:52;	Bright;	;	33.5;	102;	24Alp Ser	;	2.60;	4250;occ;	67;	0;	30446
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2;	-320.5;	27-DEC-2007	02:32:58;	Dark	;	45.5;	54;	5The Cen	;	2.06;	4500;occ;	91;	0;	30446
3;	-223.9;	27-DEC-2007	02:34:34;	Dark	;	37.5;	78;	Alp Lup	;	2.30;	28000;occ;	75;	0;	30446
4;	-148.0;	27-DEC-2007	02:35:50;	Dark	;	38.5;	95;	Zet Cen	;	2.55;	26000;occ;	77;	0;	30446
5;	-22.9;	27-DEC-2007	02:37:55;	Dark	;	40.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	81;	0;	30446
6;	191.2;	27-DEC-2007	02:41:29;	Dark	;	40.5;	12;	Alp1Cru	;	0.77;	30000;occ;	81;	0;	30447
7;	376.9;	27-DEC-2007	02:44:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30447
8;	491.8;	27-DEC-2007	02:46:30;	Dark	;	38.0;	159;	Ups Car	;	2.92;	7200;occ;	76;	0;	30447
9;	587.9;	27-DEC-2007	02:48:06;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;occ;	82;	0;	30447
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14;	1761.0;	27-DEC-2007	03:07:39;	Dark	;	48.5;	7;	19Bet Ori	;	0.10;	14000;occ;	97;	0;	30447
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16;	2013.2;	27-DEC-2007	03:11:51;	Dark	;	43.5;	27;	24Gam Ori	;	1.64;	26000;occ;	87;	0;	30447
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6;	-872.8;	27-DEC-2007	04:04:21;	Bright;	;	36.0;	104;	27Bet Lib	;	2.61;	13100;occ;	72;	0;	30447
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 22; 3696.7; 27-DEC-2007 23:47:06; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30459
 23; 3917.8; 27-DEC-2007 23:50:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30459
 24; 4411.1; 27-DEC-2007 23:59:01; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30459
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 27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459

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 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460
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 23; 3918.0; 28-DEC-2007 01:31:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30460
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8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461
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19; 2600.4; 28-DEC-2007 02:50:02; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30461
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21; 2784.0; 28-DEC-2007 02:53:05; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30461
22; 3423.0; 28-DEC-2007 03:03:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30461

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13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463
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16; 697.7; 28-DEC-2007 05:39:31; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30463
17; 961.9; 28-DEC-2007 05:43:55; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30463
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19; 1589.2; 28-DEC-2007 05:54:22; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30463
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22; 2012.9; 28-DEC-2007 06:01:26; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30463
23; 2193.6; 28-DEC-2007 06:04:27; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30463
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3; 1590.5; 28-DEC-2007 20:59:47; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30472
4; 1763.6; 28-DEC-2007 21:02:40; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;30472
5; 1879.4; 28-DEC-2007 21:04:36; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30472
6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472
7; 2194.4; 28-DEC-2007 21:09:51; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30472
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10; 2698.7; 28-DEC-2007 21:18:15; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30472
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12; 3695.8; 28-DEC-2007 21:34:52; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30472
13; 3918.9; 28-DEC-2007 21:38:35; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;30472
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15; 4536.7; 28-DEC-2007 21:48:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30472
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17; 5172.5; 28-DEC-2007 21:59:29; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30472
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13; 382.0; 28-DEC-2007 07:14:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30464
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