

GOMOS Daily Report 04-DEC-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	06DEC2007 05:39:36
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (04DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	13
Nb of prods with errors	0

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

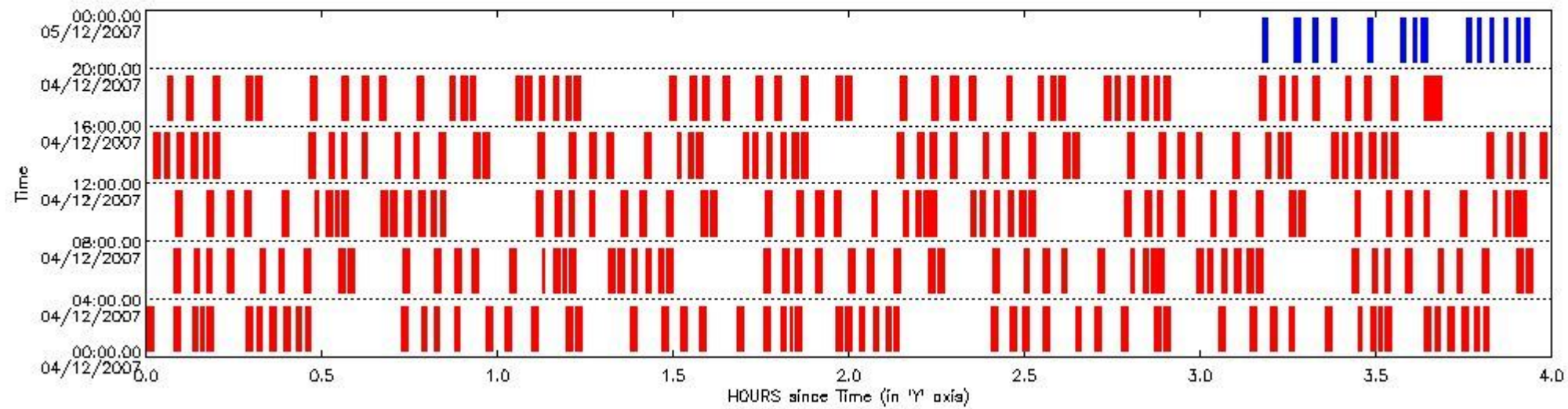
2.1 Level 0 products arrived in PCF (see template [here](#))

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
04-DEC-2007 00:00:12	AlpCol	108	30116
04-DEC-2007 00:04:47	9BetLep	139	30116
04-DEC-2007 00:07:49	34GamEri	165	30116
04-DEC-2007 00:09:16	19BetOri	7	30116
04-DEC-2007 00:10:19	67BetEri	128	30116
04-DEC-2007 00:17:06	87AlpTau	13	30116
04-DEC-2007 00:18:49	25EtaTau	146	30116
04-DEC-2007 00:21:09	44ZetPer	150	30116
04-DEC-2007 00:23:33	45EpsPer	149	30116
04-DEC-2007 00:25:37	39DelPer	175	30116
04-DEC-2007 00:27:11	13AlpAur	6	30116
04-DEC-2007 00:43:34	50AlpUMa	36	30116
04-DEC-2007 00:46:56	77EpsUMa	32	30116
04-DEC-2007 00:49:05	85EtaUMa	39	30116
04-DEC-2007 00:52:35	12Alp2CVn	152	30116

04-DEC-2007 00:58:08	8EtaBoo	111	30116
04-DEC-2007 01:01:19	47EpsVir	138	30116
04-DEC-2007 01:05:48	29GamVir	121	30116
04-DEC-2007 01:11:35	4GamCrv	100	30116
04-DEC-2007 01:13:12	2EpsCrv	171	30116
04-DEC-2007 01:22:38	MuVel	113	30117
04-DEC-2007 01:27:59	DSA1030	0	30117
04-DEC-2007 01:31:18	Gam2Vel	34	30117
04-DEC-2007 01:34:27	AlpCar	2	30117
04-DEC-2007 01:40:48	AlpCol	108	30117
04-DEC-2007 01:45:23	9BetLep	139	30117
04-DEC-2007 01:48:25	34GamEri	165	30117
04-DEC-2007 01:49:51	19BetOri	7	30117
04-DEC-2007 01:50:55	67BetEri	128	30117
04-DEC-2007 01:57:42	87AlpTau	13	30117
04-DEC-2007 01:59:25	25EtaTau	146	30117
04-DEC-2007 02:01:45	44ZetPer	150	30117
04-DEC-2007 02:04:09	45EpsPer	149	30117
04-DEC-2007 02:06:12	39DelPer	175	30117
04-DEC-2007 02:07:46	13AlpAur	6	30117
04-DEC-2007 02:24:09	50AlpUMa	36	30117
04-DEC-2007 02:27:32	77EpsUMa	32	30117
04-DEC-2007 02:29:41	85EtaUMa	39	30117
04-DEC-2007 02:33:11	12Alp2CVn	152	30117
04-DEC-2007 02:38:44	8EtaBoo	111	30117
04-DEC-2007 02:41:56	47EpsVir	138	30117
04-DEC-2007 02:46:24	29GamVir	121	30117
04-DEC-2007 02:52:12	4GamCrv	100	30117
04-DEC-2007 02:53:48	2EpsCrv	171	30117
04-DEC-2007 03:03:15	MuVel	113	30118
04-DEC-2007 03:08:36	DSA1030	0	30118
04-DEC-2007 03:11:55	Gam2Vel	34	30118
04-DEC-2007 03:15:03	AlpCar	2	30118
04-DEC-2007 03:21:25	AlpCol	108	30118
04-DEC-2007 03:26:58	11AlpLep	101	30118
04-DEC-2007 03:29:01	34GamEri	165	30118
04-DEC-2007 03:30:27	19BetOri	7	30118
04-DEC-2007 03:31:31	67BetEri	128	30118
04-DEC-2007 03:38:17	87AlpTau	13	30118
04-DEC-2007 03:40:01	25EtaTau	146	30118
04-DEC-2007 03:42:20	44ZetPer	150	30118
04-DEC-2007 03:44:44	45EpsPer	149	30118
04-DEC-2007 03:46:48	39DelPer	175	30118
04-DEC-2007 03:48:21	13AlpAur	6	30118
04-DEC-2007 04:04:45	50AlpUMa	36	30118
04-DEC-2007 04:08:08	77EpsUMa	32	30118
04-DEC-2007 04:10:17	85EtaUMa	39	30118
04-DEC-2007 04:13:47	12Alp2CVn	152	30118
04-DEC-2007 04:19:20	8EtaBoo	111	30118
04-DEC-2007 04:22:32	47EpsVir	138	30118
04-DEC-2007 04:27:01	29GamVir	121	30118
04-DEC-2007 04:32:49	4GamCrv	100	30118
04-DEC-2007 04:34:25	2EpsCrv	171	30118
04-DEC-2007 04:43:52	MuVel	113	30119
04-DEC-2007 04:49:12	DSA1030	0	30119
04-DEC-2007 04:52:32	Gam2Vel	34	30119
04-DEC-2007 04:55:40	AlpCar	2	30119
04-DEC-2007 05:02:01	AlpCol	108	30119
04-DEC-2007 05:07:34	11AlpLep	101	30119

04-DEC-2007 05:09:37	34GamEri	165	30119
04-DEC-2007 05:11:03	19BetOri	7	30119
04-DEC-2007 05:12:07	67BetEri	128	30119
04-DEC-2007 05:18:53	87AlpTau	13	30119
04-DEC-2007 05:20:36	25EtaTau	146	30119
04-DEC-2007 05:22:56	44ZetPer	150	30119
04-DEC-2007 05:25:20	45EpsPer	149	30119
04-DEC-2007 05:27:24	39DelPer	175	30119
04-DEC-2007 05:28:57	13AlpAur	6	30119
04-DEC-2007 05:45:20	50AlpUMa	36	30119
04-DEC-2007 05:48:44	77EpsUMa	32	30119
04-DEC-2007 05:50:53	85EtaUMa	39	30119
04-DEC-2007 05:54:23	12Alp2CVn	152	30119
04-DEC-2007 05:59:56	8EtaBoo	111	30119
04-DEC-2007 06:03:09	47EpsVir	138	30119
04-DEC-2007 06:07:37	29GamVir	121	30119
04-DEC-2007 06:13:26	4GamCrv	100	30119
04-DEC-2007 06:15:02	2EpsCrv	171	30119
04-DEC-2007 06:24:28	MuVel	113	30120
04-DEC-2007 06:29:49	DSA1030	0	30120
04-DEC-2007 06:33:09	Gam2Vel	34	30120
04-DEC-2007 06:36:16	AlpCar	2	30120
04-DEC-2007 06:42:37	AlpCol	108	30120
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04-DEC-2007 07:01:12	25EtaTau	146	30120
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04-DEC-2007 08:13:45	Gam2Vel	34	30121
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04-DEC-2007 08:23:14	AlpCol	108	30121
04-DEC-2007 08:28:46	11AlpLep	101	30121
04-DEC-2007 08:30:49	34GamEri	165	30121
04-DEC-2007 08:32:15	19BetOri	7	30121
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04-DEC-2007 08:46:32	45EpsPer	149	30121
04-DEC-2007 08:48:36	39DelPer	175	30121
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04-DEC-2007 10:11:25	34GamEri	165	30122
04-DEC-2007 10:12:51	19BetOri	7	30122
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04-DEC-2007 10:20:40	87AlpTau	13	30122
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04-DEC-2007 11:53:27	19BetOri	7	30123
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04-DEC-2007 12:03:00	25EtaTau	146	30123
04-DEC-2007 12:05:19	44ZetPer	150	30123
04-DEC-2007 12:07:43	45EpsPer	149	30123
04-DEC-2007 12:09:47	39DelPer	175	30123
04-DEC-2007 12:11:18	13AlpAur	6	30123
04-DEC-2007 12:27:42	50AlpUMa	36	30123
04-DEC-2007 12:31:07	77EpsUMa	32	30123
04-DEC-2007 12:33:17	85EtaUMa	39	30123
04-DEC-2007 12:36:47	12Alp2CVn	152	30123
04-DEC-2007 12:42:21	8EtaBoo	111	30123
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04-DEC-2007 12:57:29	2EpsCrv	171	30123
04-DEC-2007 13:06:55	MuVel	113	30124
04-DEC-2007 13:12:16	DSA1030	0	30124
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04-DEC-2007 13:18:42	AlpCar	2	30124

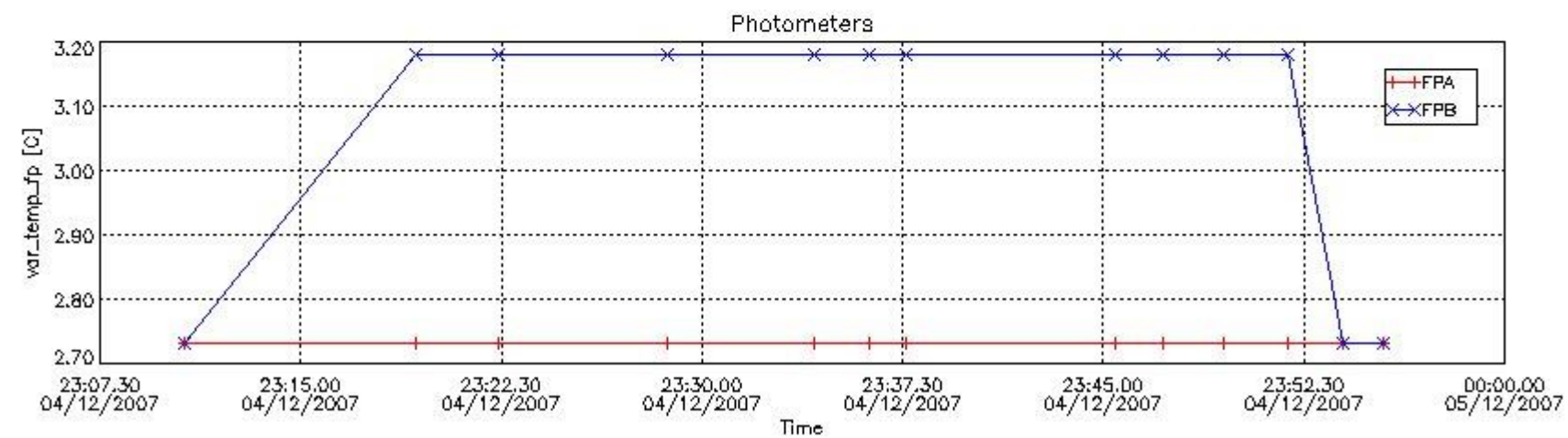
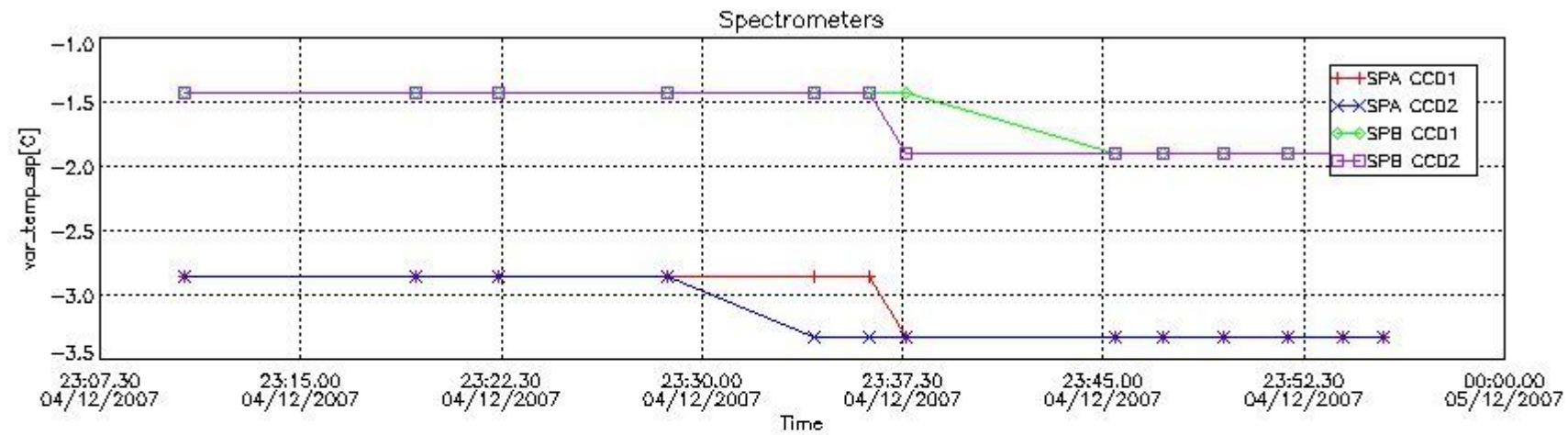
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04-DEC-2007 13:30:35	11AlpLep	101	30124
04-DEC-2007 13:32:37	34GamEri	165	30124
04-DEC-2007 13:34:03	19BetOri	7	30124
04-DEC-2007 13:41:51	87AlpTau	13	30124
04-DEC-2007 13:43:36	25EtaTau	146	30124
04-DEC-2007 13:45:55	44ZetPer	150	30124
04-DEC-2007 13:48:19	45EpsPer	149	30124
04-DEC-2007 13:50:23	39DelPer	175	30124
04-DEC-2007 13:51:53	13AlpAur	6	30124
04-DEC-2007 14:08:18	50AlpUMa	36	30124
04-DEC-2007 14:11:43	77EpsUMa	32	30124
04-DEC-2007 14:13:53	85EtaUMa	39	30124
04-DEC-2007 14:17:23	12Alp2CVn	152	30124
04-DEC-2007 14:22:57	8EtaBoo	111	30124
04-DEC-2007 14:26:10	47EpsVir	138	30124
04-DEC-2007 14:30:40	29GamVir	121	30124
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04-DEC-2007 14:38:06	2EpsCrv	171	30124
04-DEC-2007 14:47:32	MuVel	113	30125
04-DEC-2007 14:52:53	DSA1030	0	30125
04-DEC-2007 14:56:12	Gam2Vel	34	30125
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04-DEC-2007 15:05:39	AlpCol	108	30125
04-DEC-2007 15:11:11	11AlpLep	101	30125
04-DEC-2007 15:13:13	34GamEri	165	30125
04-DEC-2007 15:14:38	19BetOri	7	30125
04-DEC-2007 15:22:27	87AlpTau	13	30125
04-DEC-2007 15:24:11	25EtaTau	146	30125
04-DEC-2007 15:26:31	44ZetPer	150	30125
04-DEC-2007 15:28:54	45EpsPer	149	30125
04-DEC-2007 15:30:59	39DelPer	175	30125
04-DEC-2007 15:32:29	13AlpAur	6	30125
04-DEC-2007 15:48:54	50AlpUMa	36	30125
04-DEC-2007 15:52:19	77EpsUMa	32	30125
04-DEC-2007 15:54:29	85EtaUMa	39	30125
04-DEC-2007 15:57:59	12Alp2CVn	152	30125
04-DEC-2007 16:03:33	8EtaBoo	111	30125
04-DEC-2007 16:06:47	47EpsVir	138	30125
04-DEC-2007 16:11:17	29GamVir	121	30125
04-DEC-2007 16:17:07	4GamCrv	100	30125
04-DEC-2007 16:18:43	2EpsCrv	171	30125
04-DEC-2007 16:28:09	MuVel	113	30126
04-DEC-2007 16:33:30	DSA1030	0	30126
04-DEC-2007 16:36:49	Gam2Vel	34	30126
04-DEC-2007 16:39:55	AlpCar	2	30126
04-DEC-2007 16:46:15	AlpCol	108	30126
04-DEC-2007 16:51:47	11AlpLep	101	30126
04-DEC-2007 16:53:49	34GamEri	165	30126
04-DEC-2007 16:55:14	19BetOri	7	30126
04-DEC-2007 17:03:03	87AlpTau	13	30126
04-DEC-2007 17:04:47	25EtaTau	146	30126
04-DEC-2007 17:07:06	44ZetPer	150	30126
04-DEC-2007 17:09:30	45EpsPer	149	30126
04-DEC-2007 17:11:34	39DelPer	175	30126
04-DEC-2007 17:13:04	13AlpAur	6	30126
04-DEC-2007 17:29:29	50AlpUMa	36	30126
04-DEC-2007 17:32:55	77EpsUMa	32	30126
04-DEC-2007 17:35:05	85EtaUMa	39	30126

04-DEC-2007 17:38:35	12Alp2CVn	152	30126
04-DEC-2007 17:44:09	8EtaBoo	111	30126
04-DEC-2007 17:47:23	47EpsVir	138	30126
04-DEC-2007 17:51:53	29GamVir	121	30126
04-DEC-2007 17:57:44	4GamCrv	100	30126
04-DEC-2007 17:59:20	2EpsCrv	171	30126
04-DEC-2007 18:08:45	MuVel	113	30127
04-DEC-2007 18:14:06	DSA1030	0	30127
04-DEC-2007 18:17:26	Gam2Vel	34	30127
04-DEC-2007 18:20:31	AlpCar	2	30127
04-DEC-2007 18:26:51	AlpCol	108	30127
04-DEC-2007 18:32:23	11AlpLep	101	30127
04-DEC-2007 18:34:25	34GamEri	165	30127
04-DEC-2007 18:35:50	19BetOri	7	30127
04-DEC-2007 18:43:38	87AlpTau	13	30127
04-DEC-2007 18:45:23	25EtaTau	146	30127
04-DEC-2007 18:47:42	44ZetPer	150	30127
04-DEC-2007 18:50:06	45EpsPer	149	30127
04-DEC-2007 18:52:10	39DelPer	175	30127
04-DEC-2007 18:53:40	13AlpAur	6	30127
04-DEC-2007 19:10:05	50AlpUMa	36	30127
04-DEC-2007 19:13:30	77EpsUMa	32	30127
04-DEC-2007 19:15:41	85EtaUMa	39	30127
04-DEC-2007 19:19:11	12Alp2CVn	152	30127
04-DEC-2007 19:24:45	8EtaBoo	111	30127
04-DEC-2007 19:27:59	47EpsVir	138	30127
04-DEC-2007 19:32:30	29GamVir	121	30127
04-DEC-2007 19:38:20	4GamCrv	100	30127
04-DEC-2007 19:39:57	2EpsCrv	171	30127

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_1PNPDE20071204_231037_000000432064_00016_30130_3209.N1	04-DEC-2007 23:10:37	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	30130	No
2	GOM_TRA_1PNPDE20071204_231917_000000472064_00016_30130_3210.N1	04-DEC-2007 23:19:17	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	30130	No
3	GOM_TRA_1PNPDE20071204_232221_000000572064_00016_30130_3211.N1	04-DEC-2007 23:22:21	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	30130	No
4	GOM_TRA_1PNPDE20071204_232841_000000452064_00016_30130_3212.N1	04-DEC-2007 23:28:41	Dark	44.500	108	Alp Col	2.6520	15200.	89	30130	No
5	GOM_TRA_1PNPDE20071204_233412_000000512064_00016_30130_3213.N1	04-DEC-2007 23:34:12	Straylight	50.500	101	11Alp Lep	2.5820	7000.0	101	30130	No
6	GOM_TRA_1PNPDE20071204_233614_000000452064_00016_30130_3214.N1	04-DEC-2007 23:36:14	Straylight	44.500	165	34Gam Eri	2.9500	3200.0	89	30130	No
7	GOM_TRA_1PNPDE20071204_233739_000000602064_00016_30130_3215.N1	04-DEC-2007 23:37:39	Straylight	60.000	7	19Bet Ori	0.10000	14000.	120	30130	No
8	GOM_TRA_1PNPDE20071204_234526_000000532064_00016_30130_3216.N1	04-DEC-2007 23:45:26	Bright	53.000	13	87Alp Tau	0.86700	3800.0	106	30130	No
9	GOM_TRA_1PNPDE20071204_234712_000000372064_00016_30130_3217.N1	04-DEC-2007 23:47:12	Bright	37.000	146	25Eta Tau	2.8730	15200.	74	30130	No
10	GOM_TRA_1PNPDE20071204_234931_000000372064_00016_30130_3218.N1	04-DEC-2007 23:49:31	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30130	No
11	GOM_TRA_1PNPDE20071204_235154_000000382064_00016_30130_3219.N1	04-DEC-2007 23:51:54	Bright	37.500	149	45Eps Per	2.8880	30000.	75	30130	No
12	GOM_TRA_1PNPDE20071204_235359_000000362064_00016_30130_3220.N1	04-DEC-2007 23:53:59	Bright	35.500	175	39Del Per	3.0100	19400.	71	30130	No
13	GOM_TRA_1PNPDE20071204_235527_000000472064_00016_30130_3221.N1	04-DEC-2007 23:55:27	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	30130	No

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



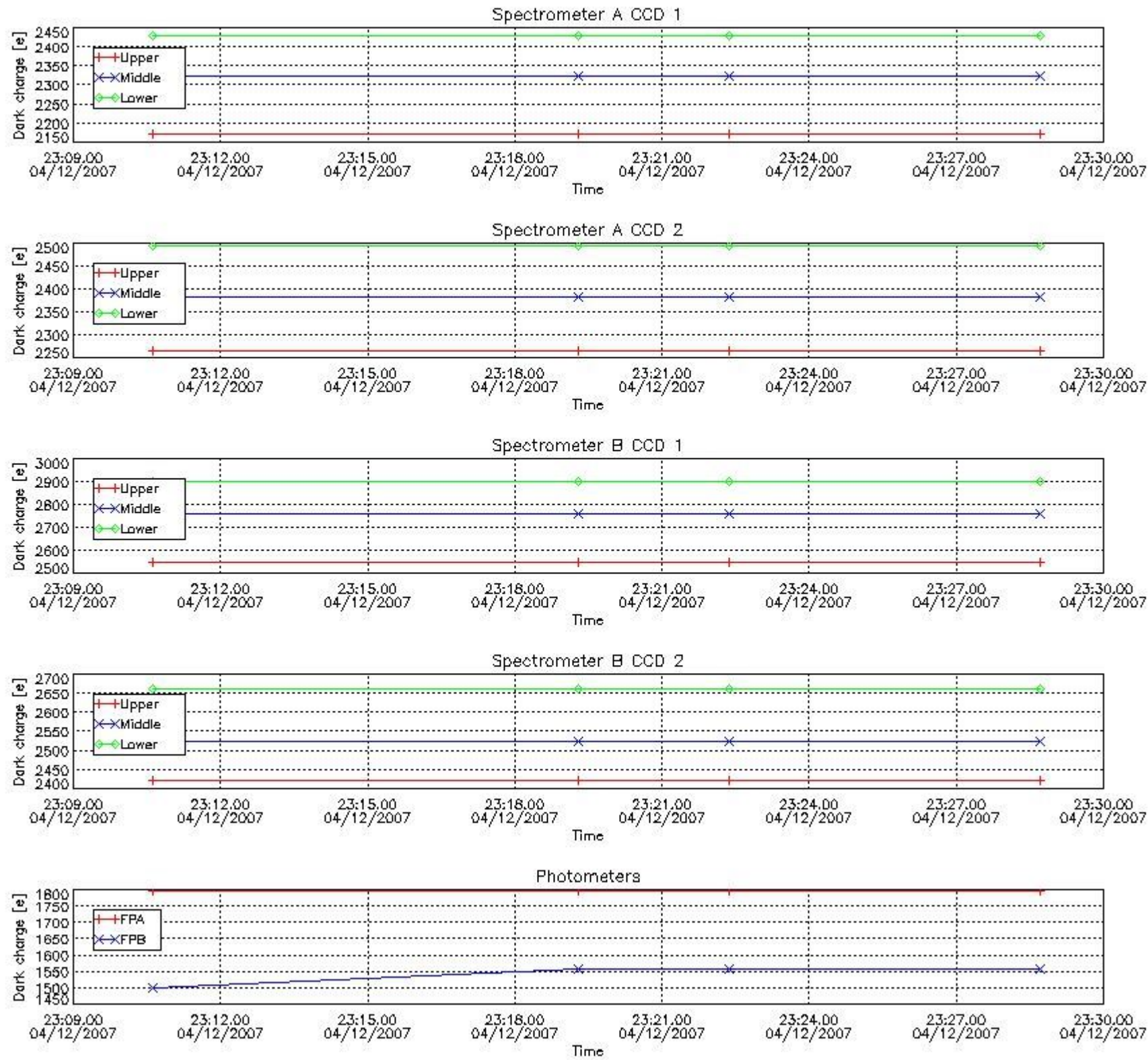
4. Overview of dark signal processing per product

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



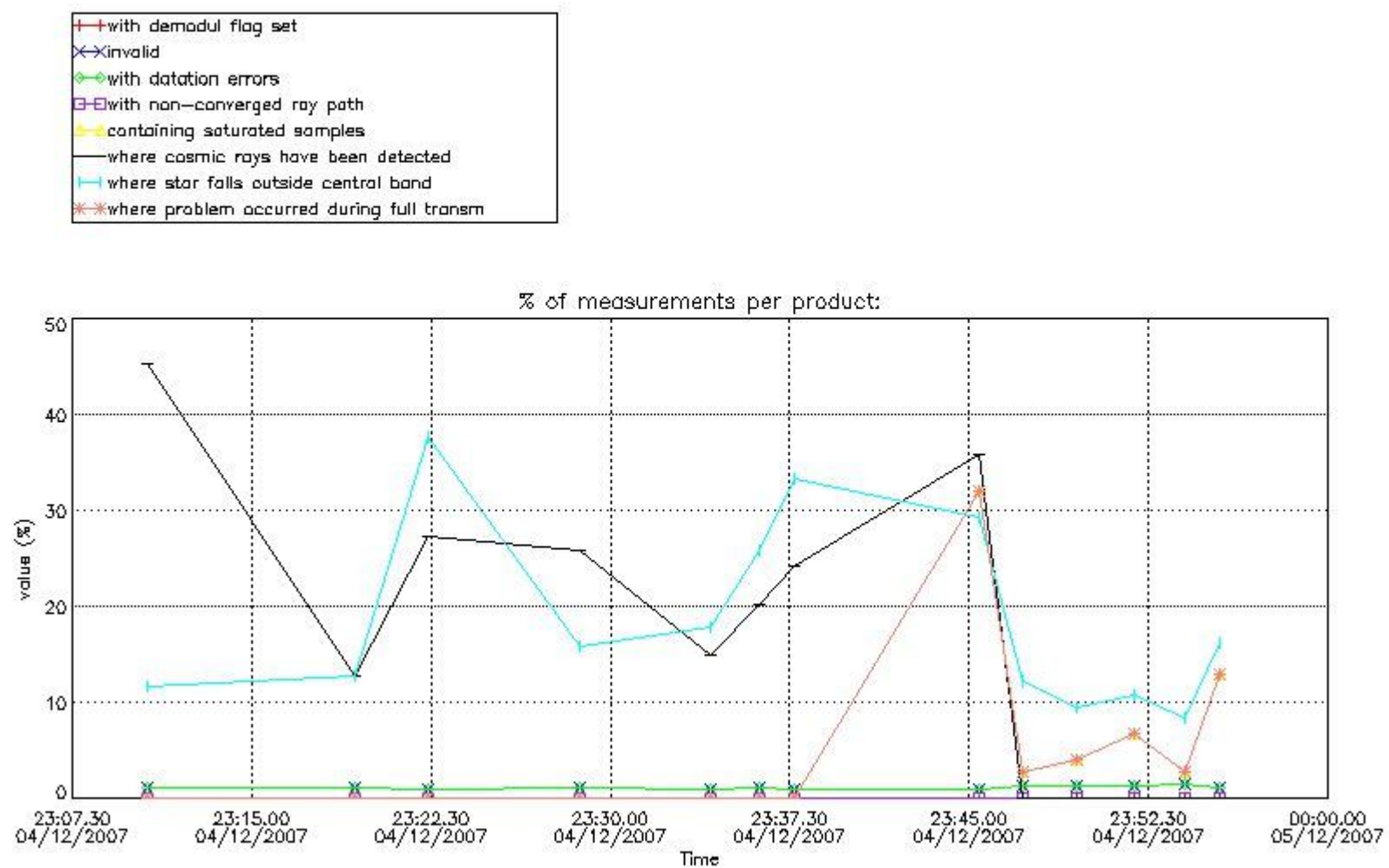
5. Demodulation flag and quality information monitoring

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.

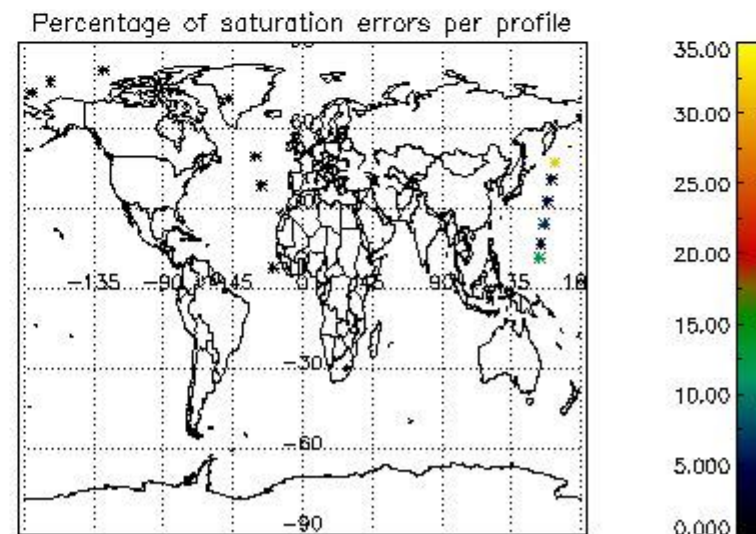
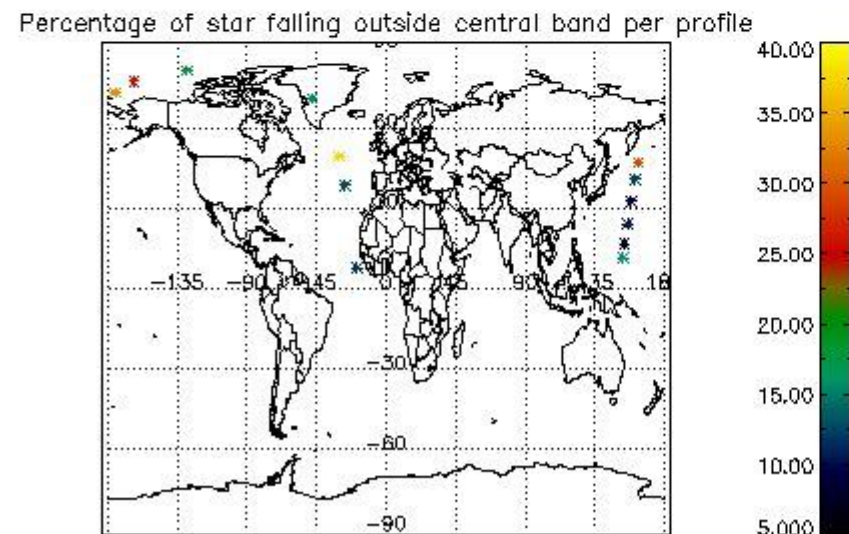
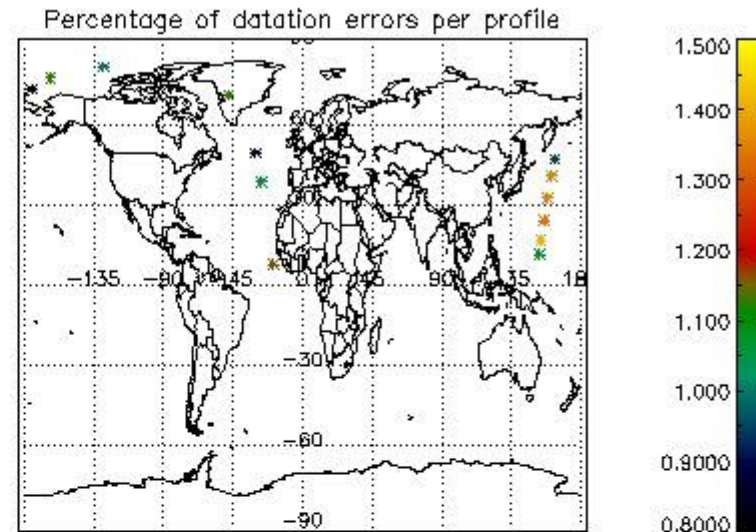
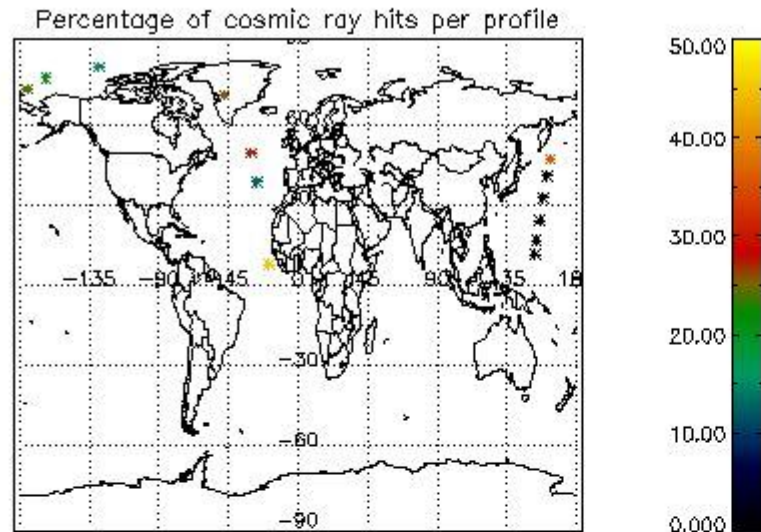
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	7.69231 %
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)



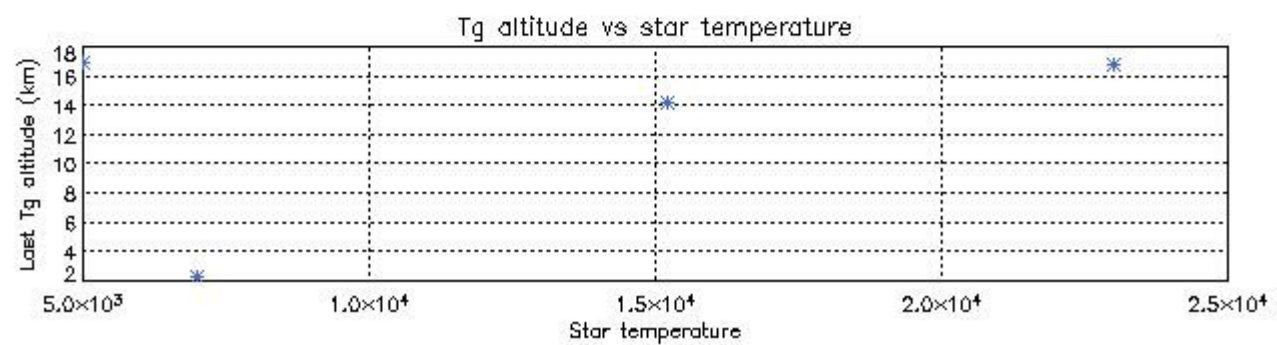
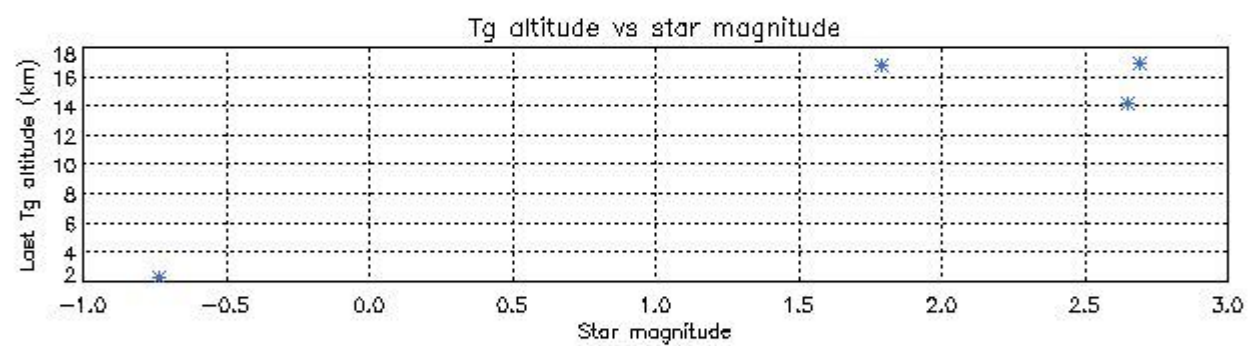
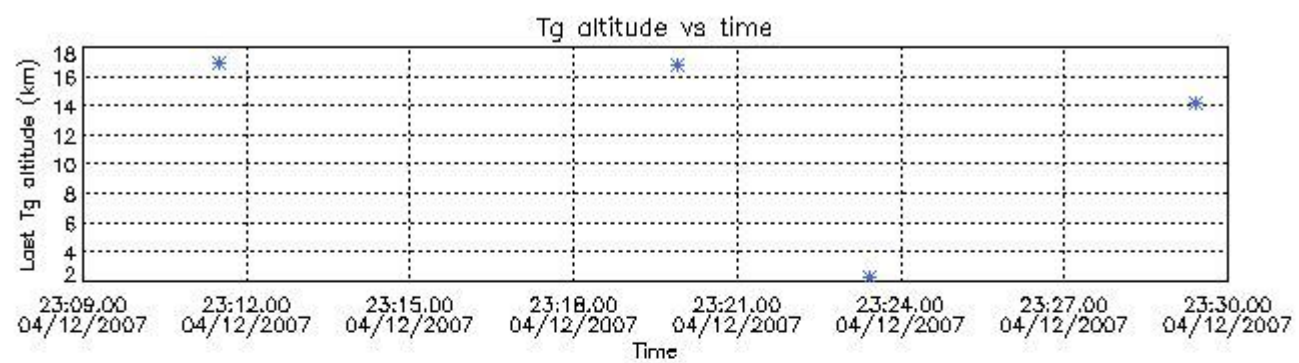
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.543	15.171	NaN
St. deviation:	6.9937	4.2839	NaN
Maximum:	16.941	18.674	NaN
Minimum:	2.2258	6.8978	NaN
Number of data:	4.0000	6.0000	NaN

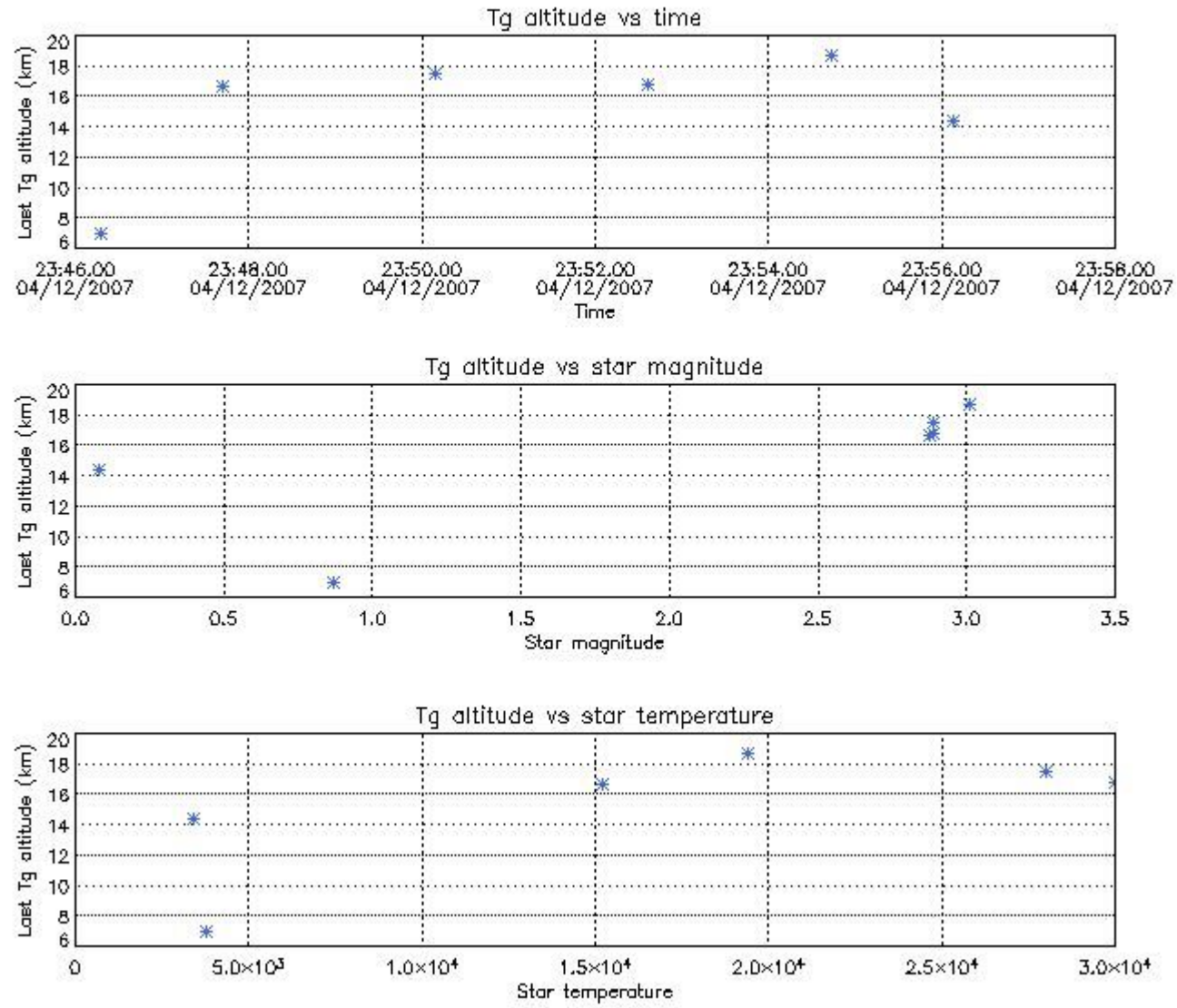
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

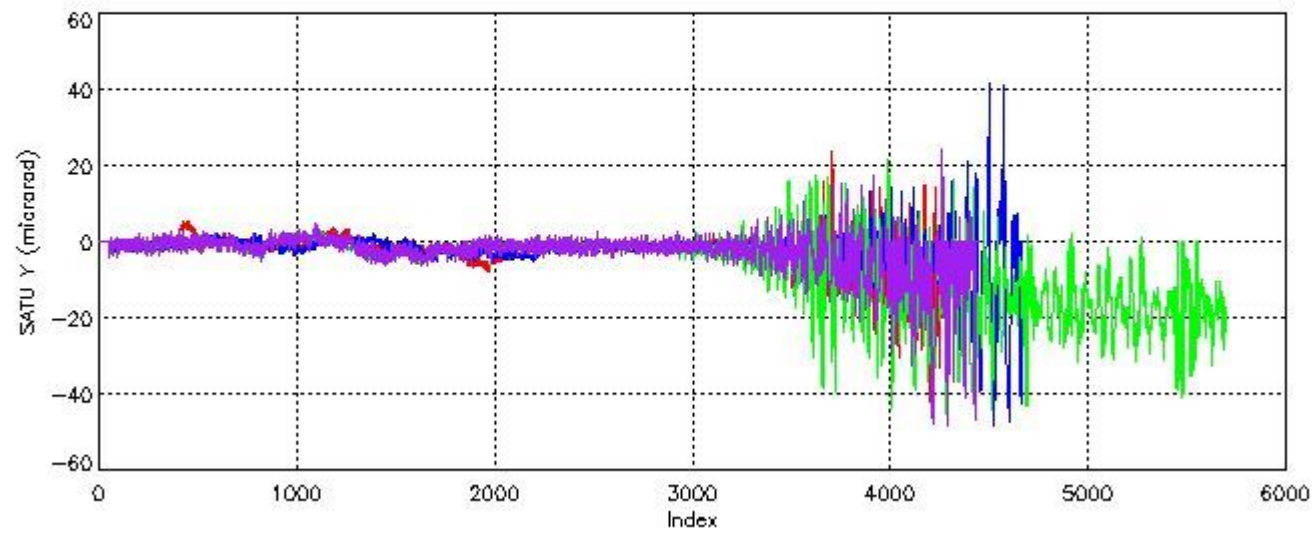
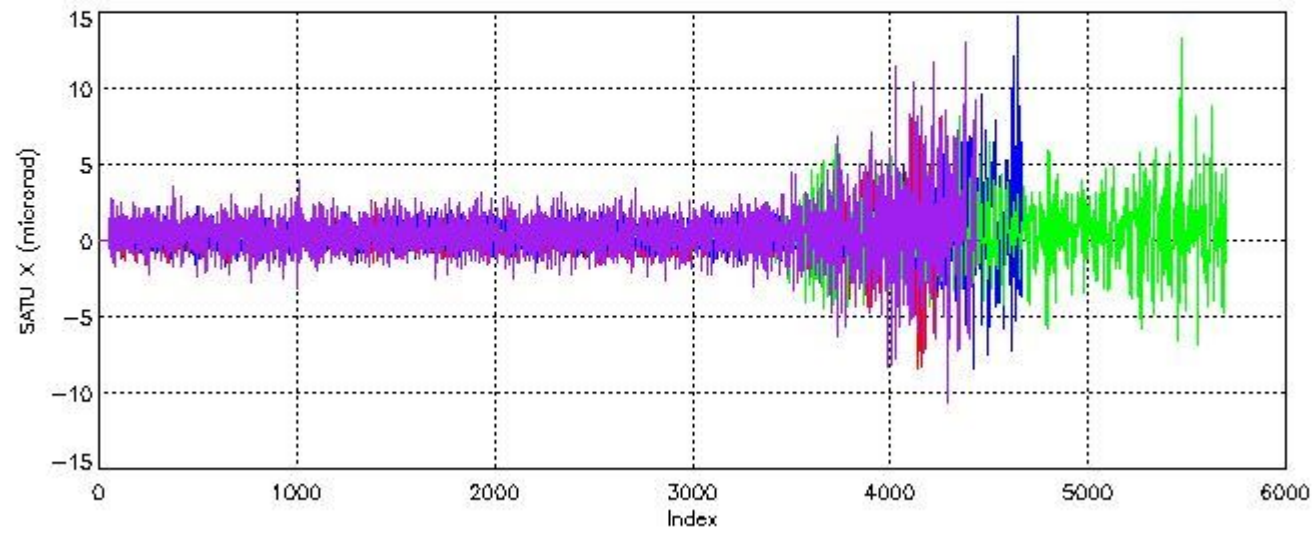


7. Star Acquisition and Tracking Unit (SATU)

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:	0.30976	-0.55031	0.28077	-1.0646
St. deviation:	0.54276	1.1893	1.0342	1.2634
Maximum:	3.6000	5.4000	6.3000	4.3000
Minimum:	-2.4000	-4.2000	-4.9000	-6.9000

Number of data:	3200.0	3200.0	4050.0	4050.0
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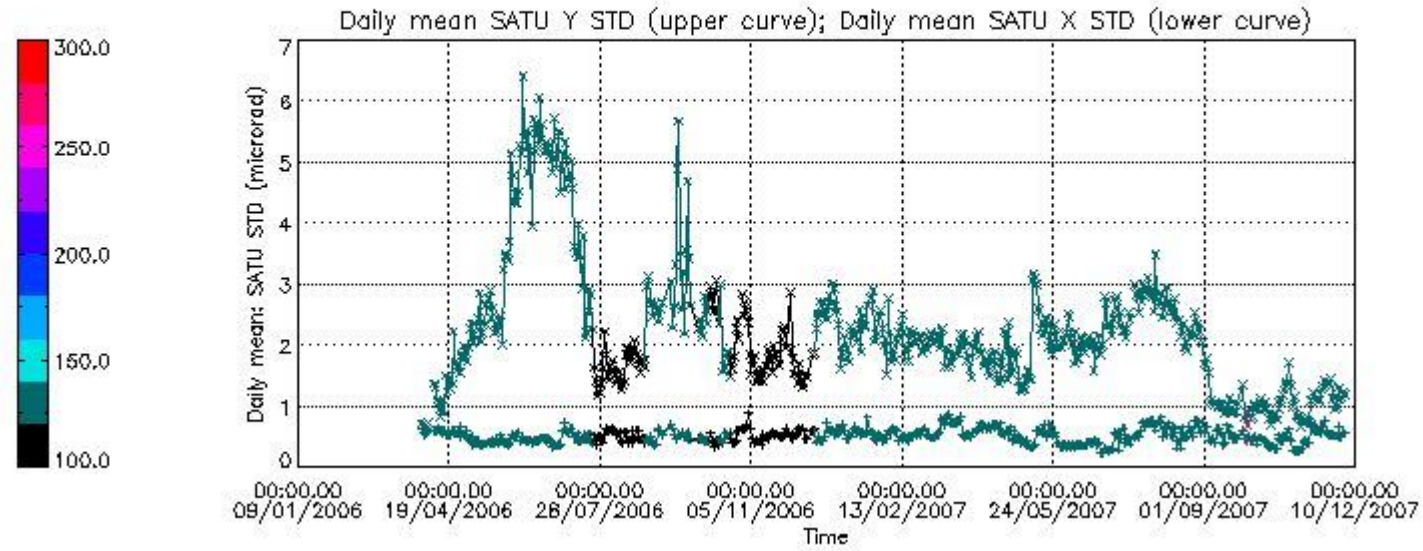
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

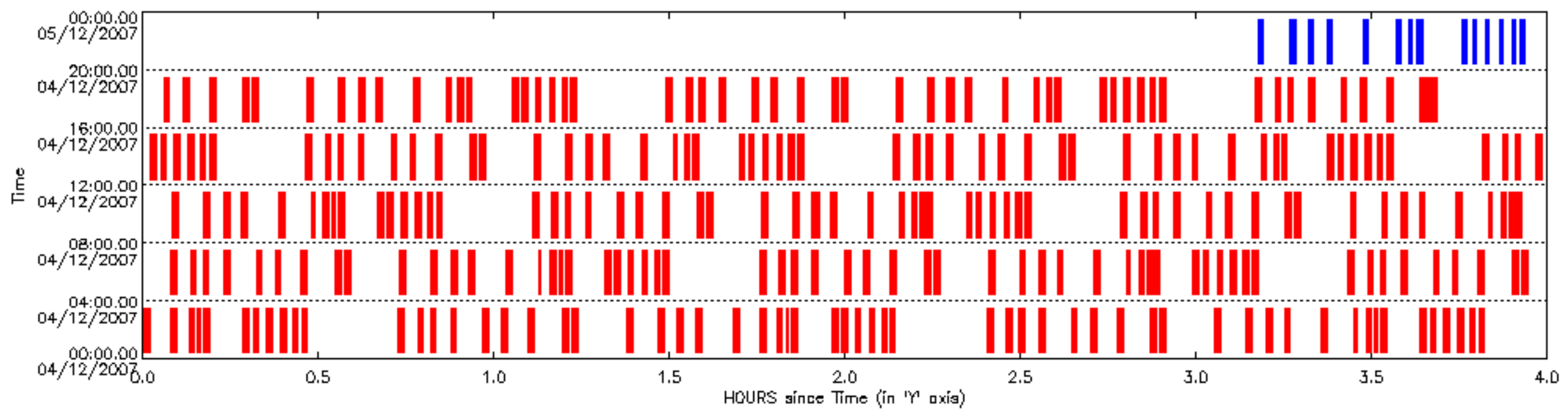
Lower curve: STD of SATU X axis

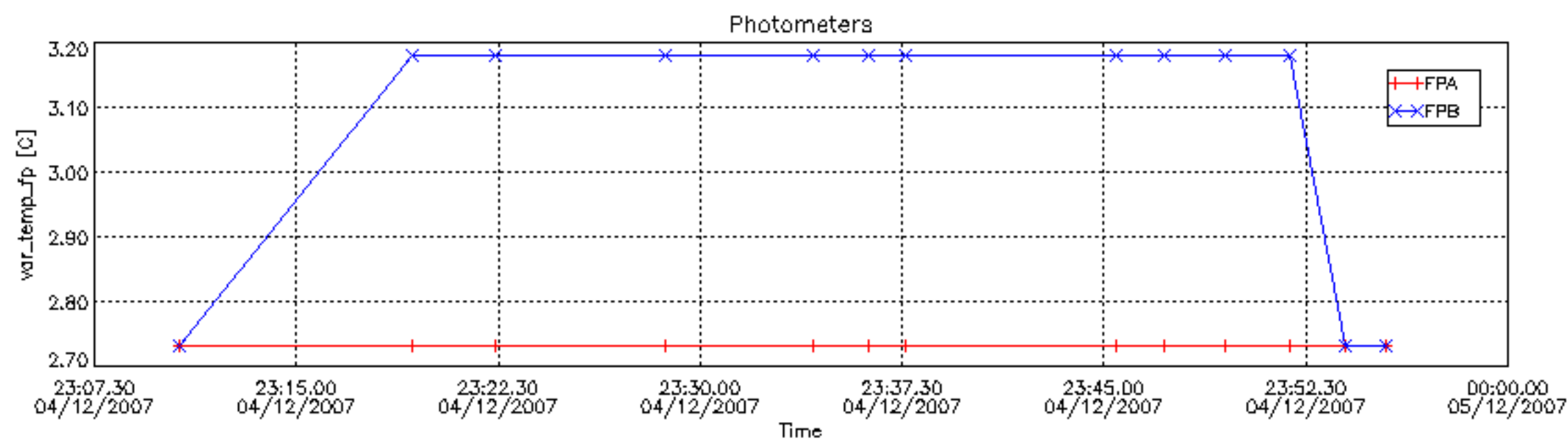
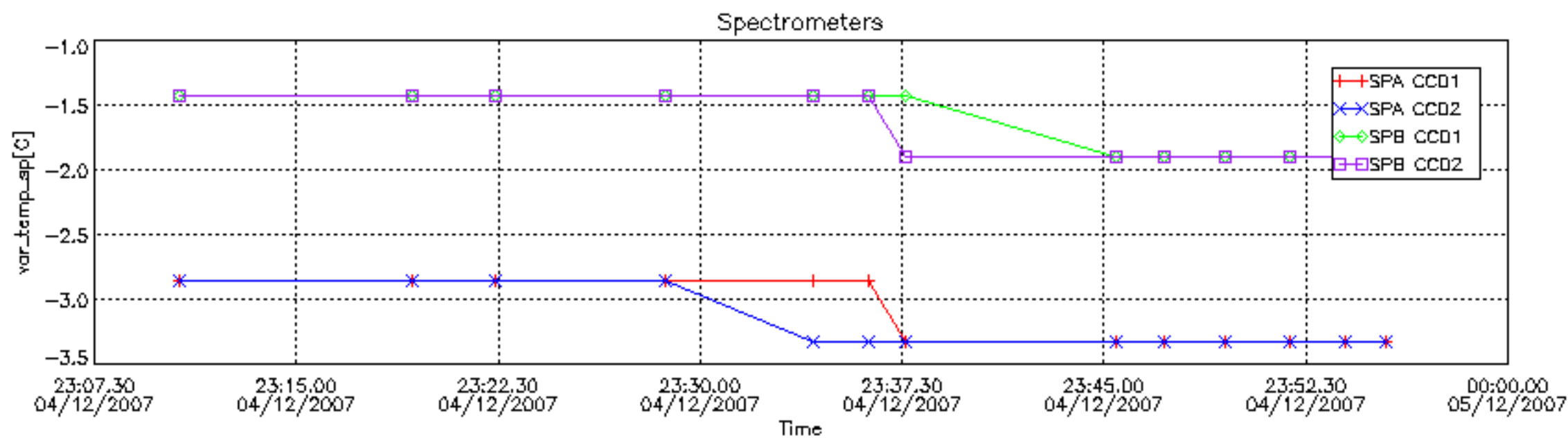


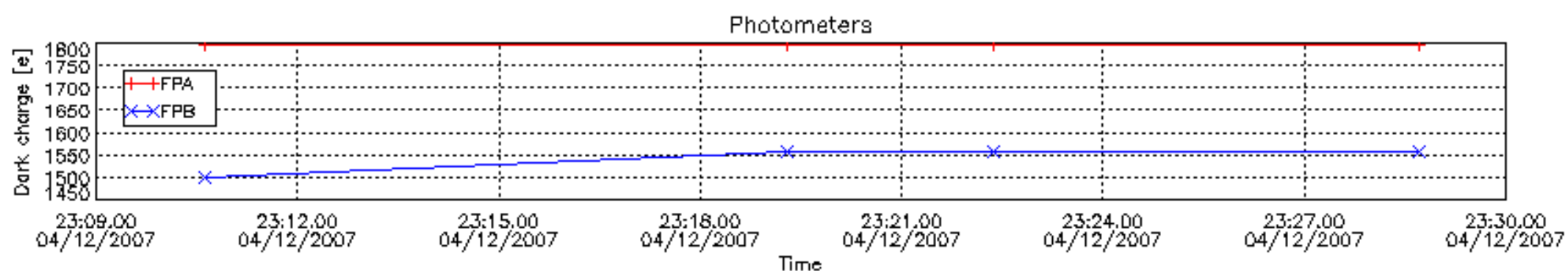
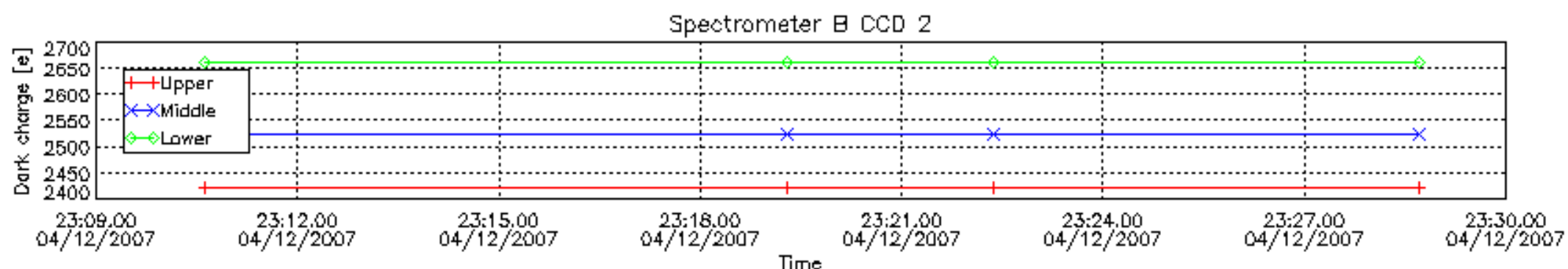
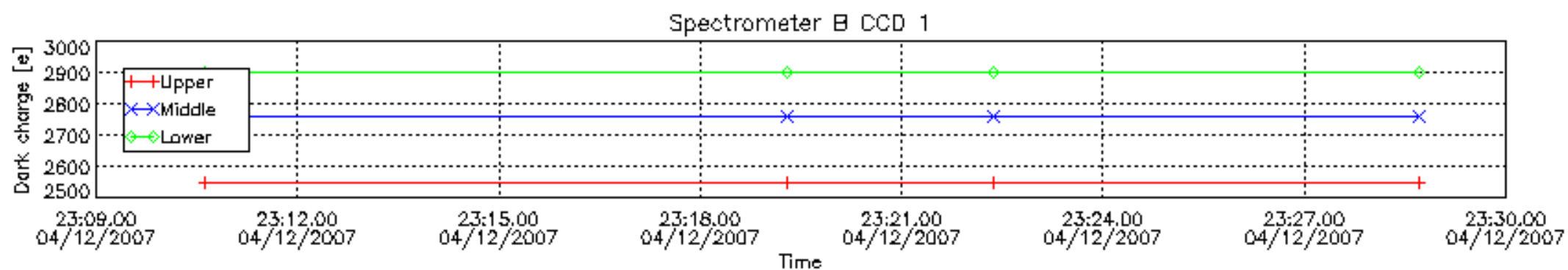
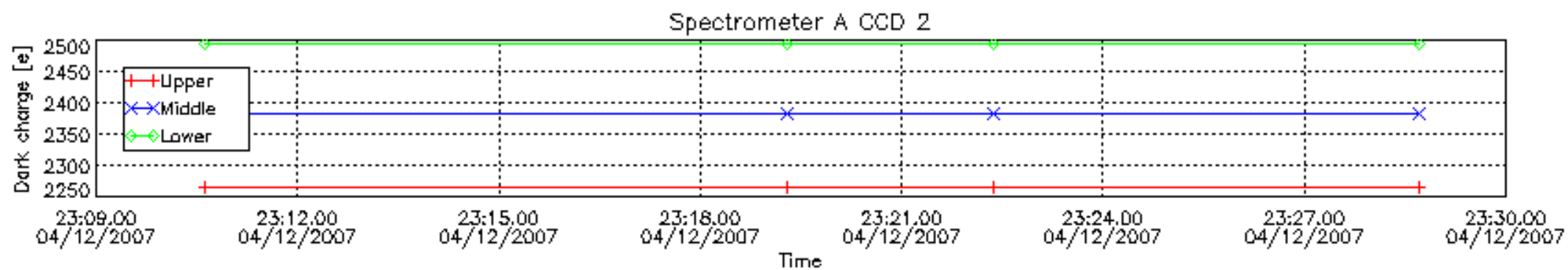
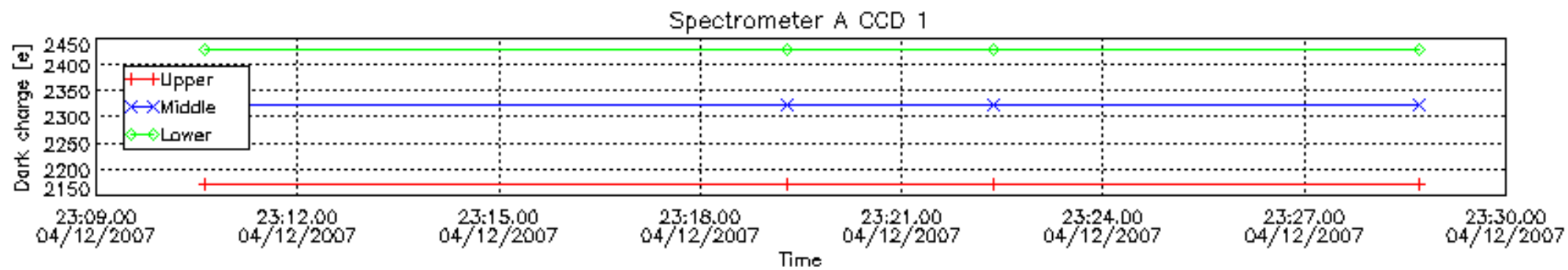
8. Auxiliary Data Files used for the production reported in section 2.4

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.

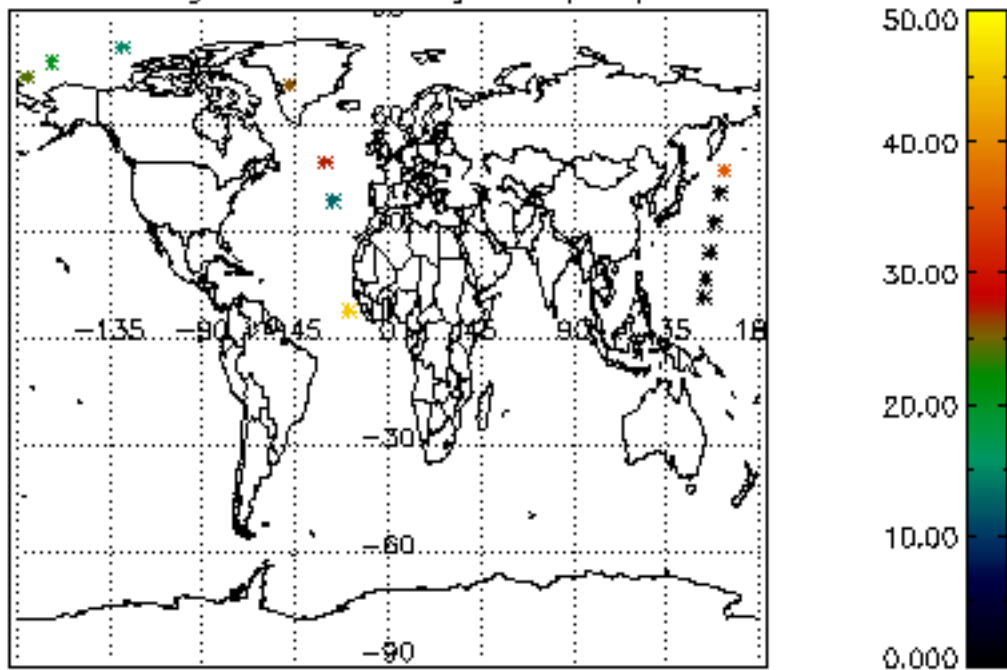
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-DEC-2007 23:10:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071130_110642_20071128_000000_20100101_000000	1	04-DEC-2007 23:10:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-DEC-2007 23:10:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-DEC-2007 23:10:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-DEC-2007 23:10:37
ECMWF_FILE	AUX_ECF_AXNECM20071204_063111_20071204_210000_20071205_090000	1	04-DEC-2007 23:10:37
OPTIONAL_ECMWF_FILE	MISSING	1	04-DEC-2007 23:10:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071204_210704_000057382064_00014_30128_4687.N1	1	04-DEC-2007 23:10:37



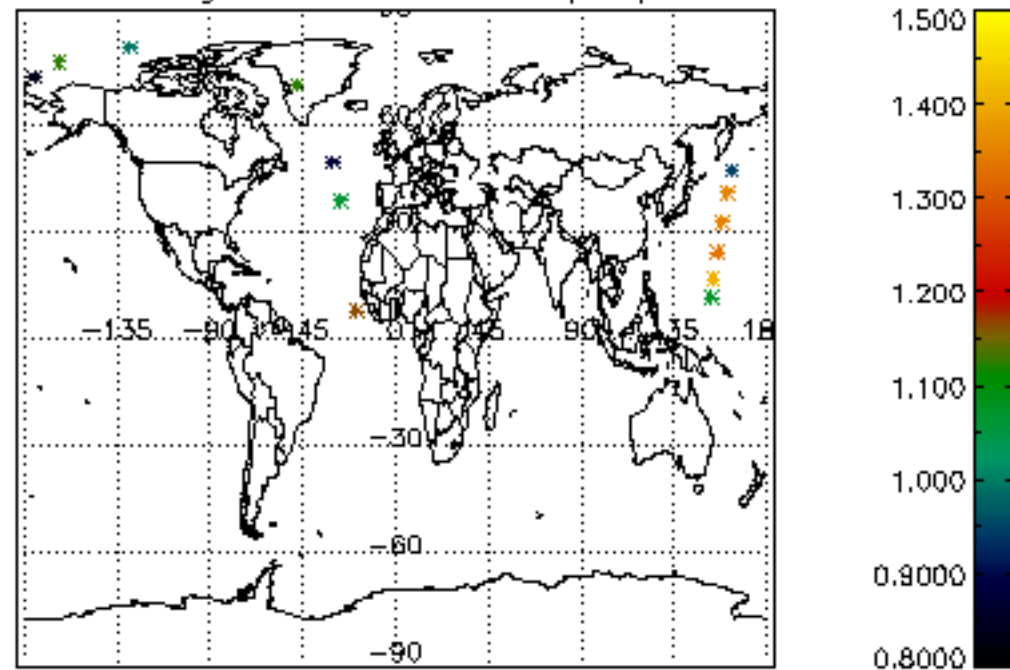




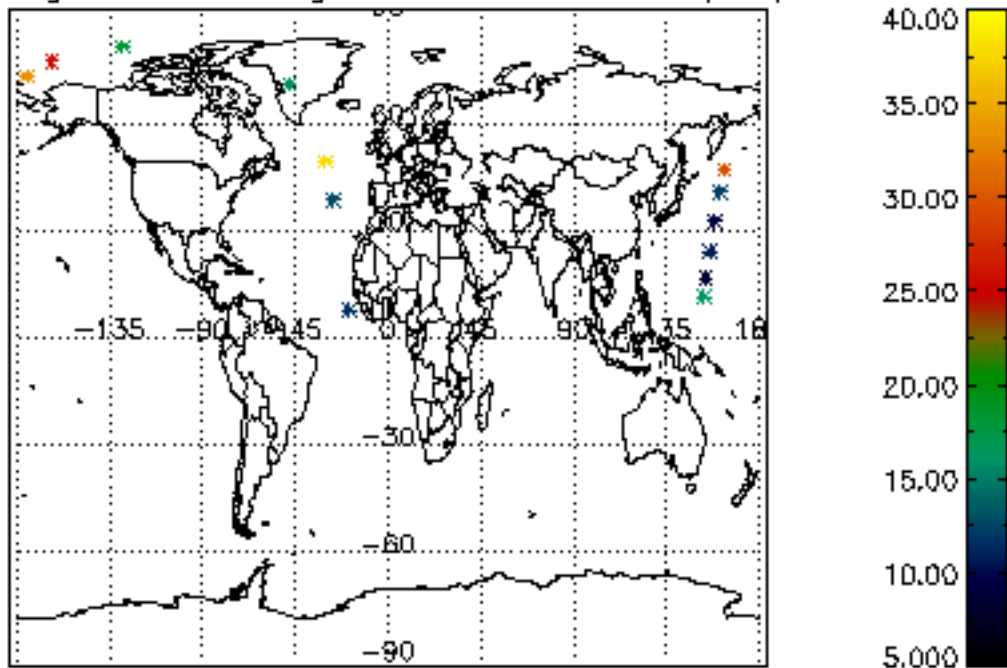
Percentage of cosmic ray hits per profile



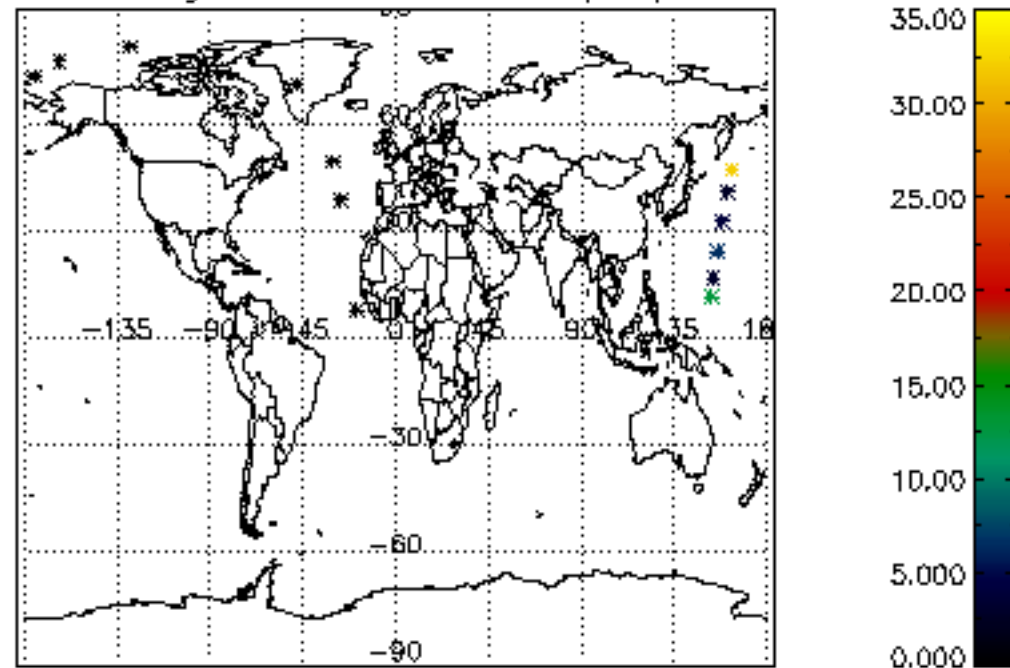
Percentage of datation errors per profile



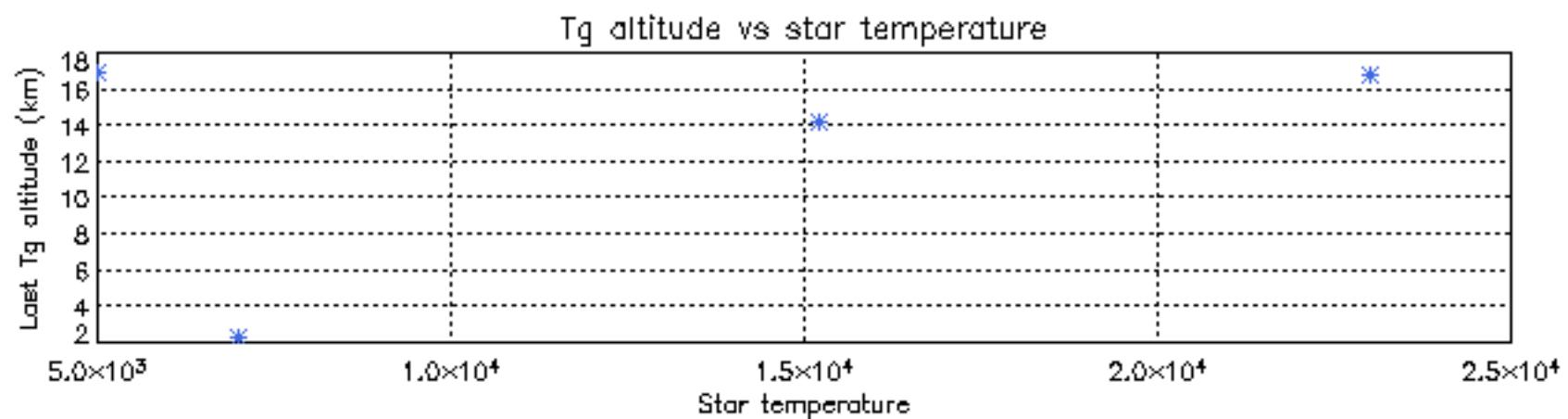
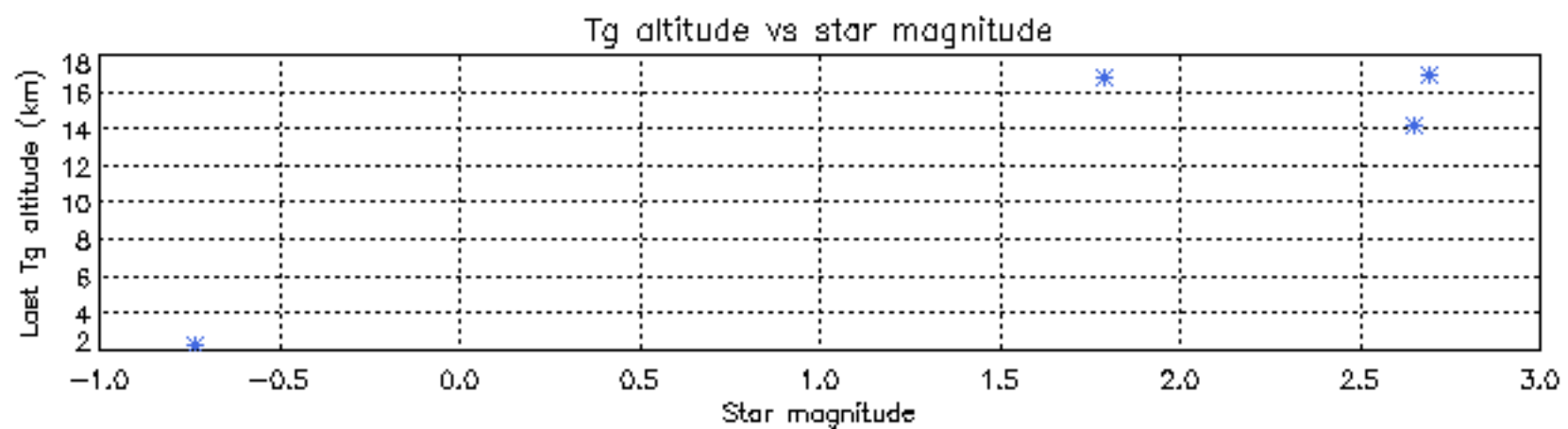
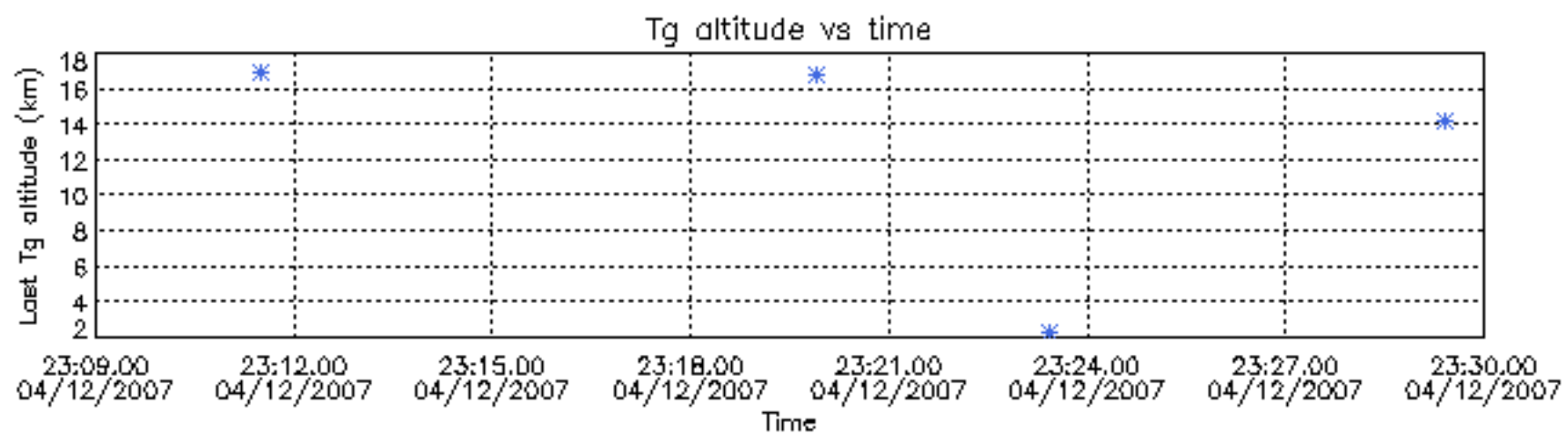
Percentage of star falling outside central band per profile



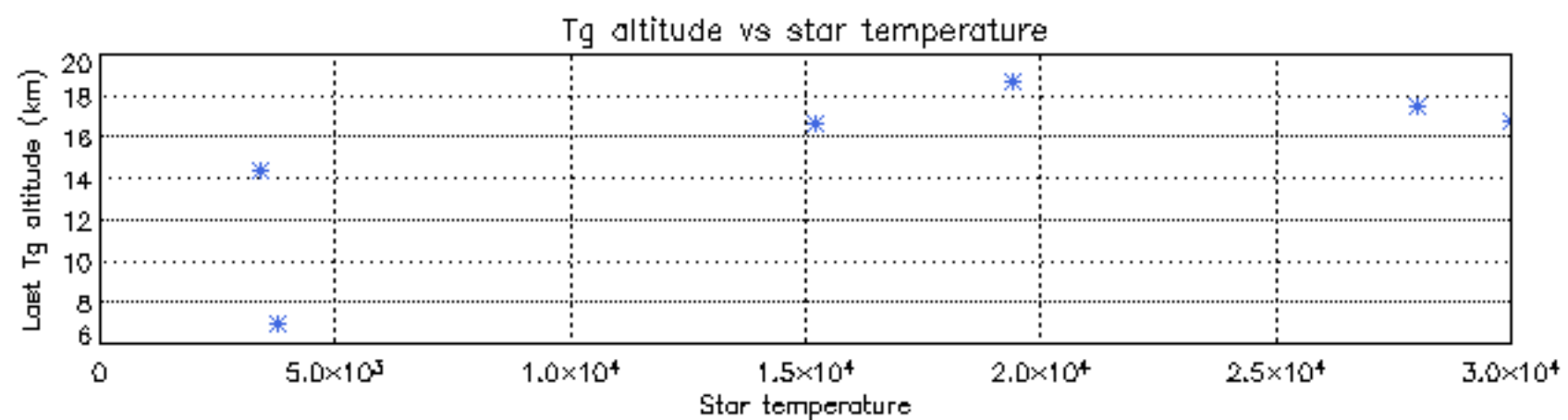
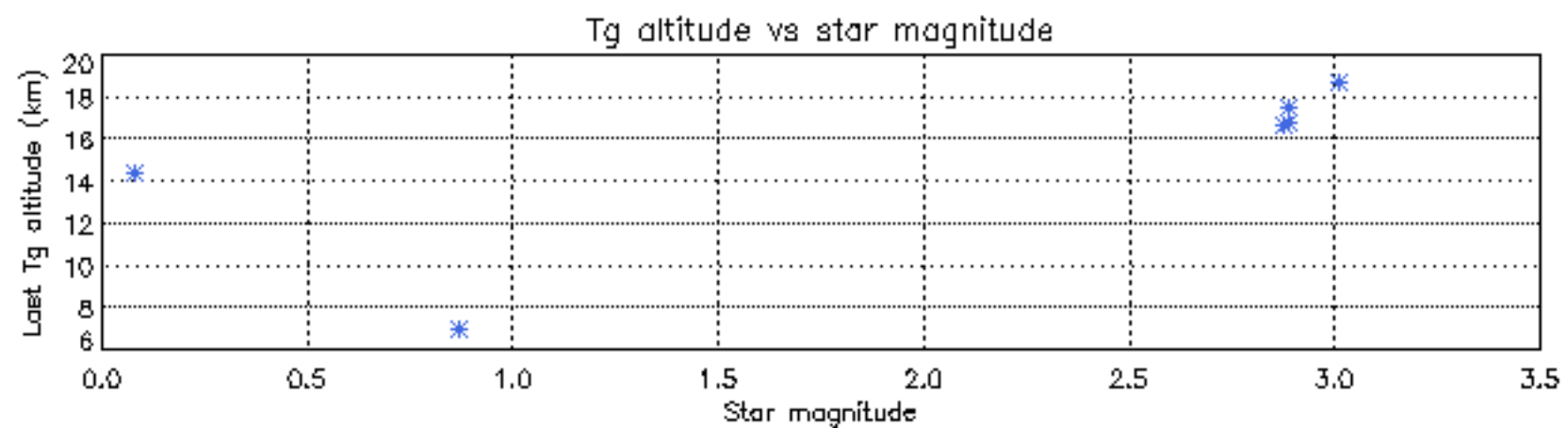
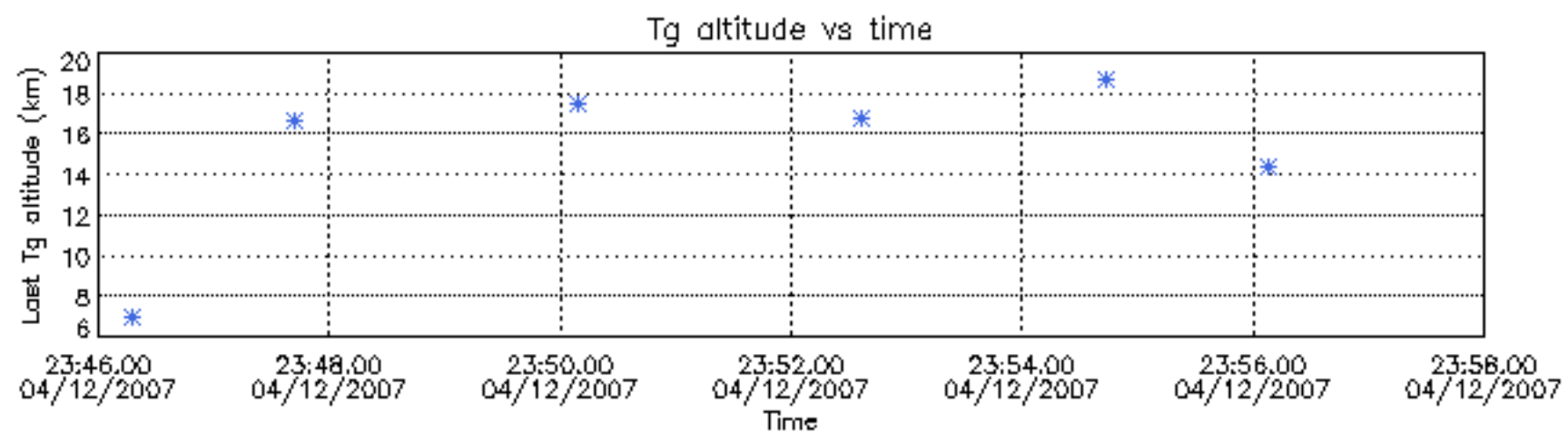
Percentage of saturation errors per profile

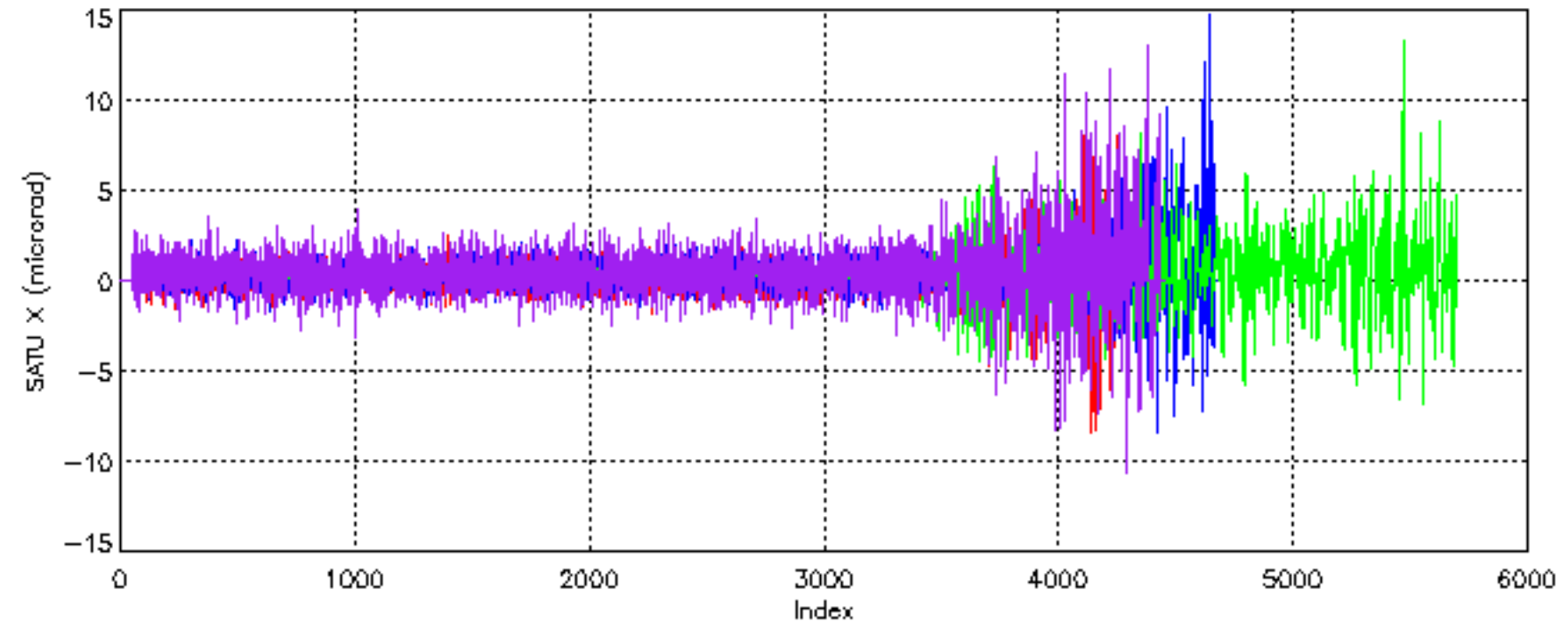


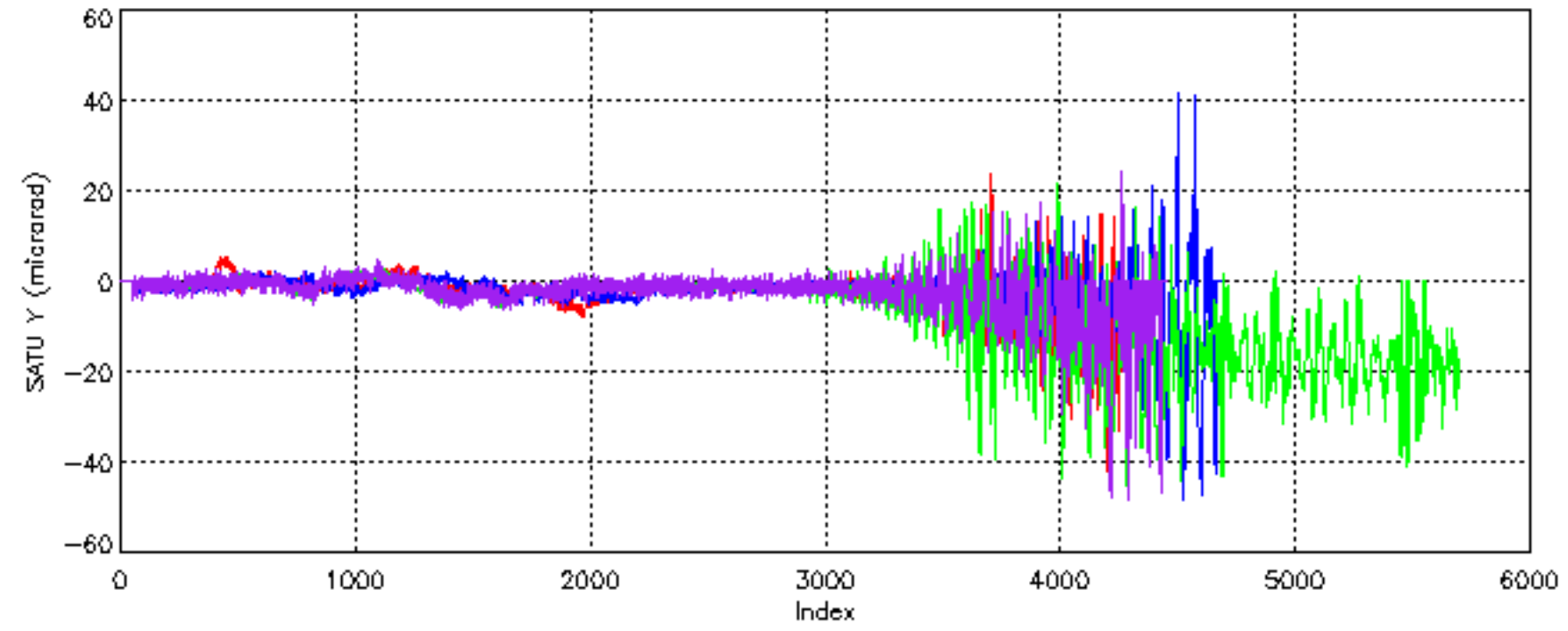
Tangent altitude at which the star is lost

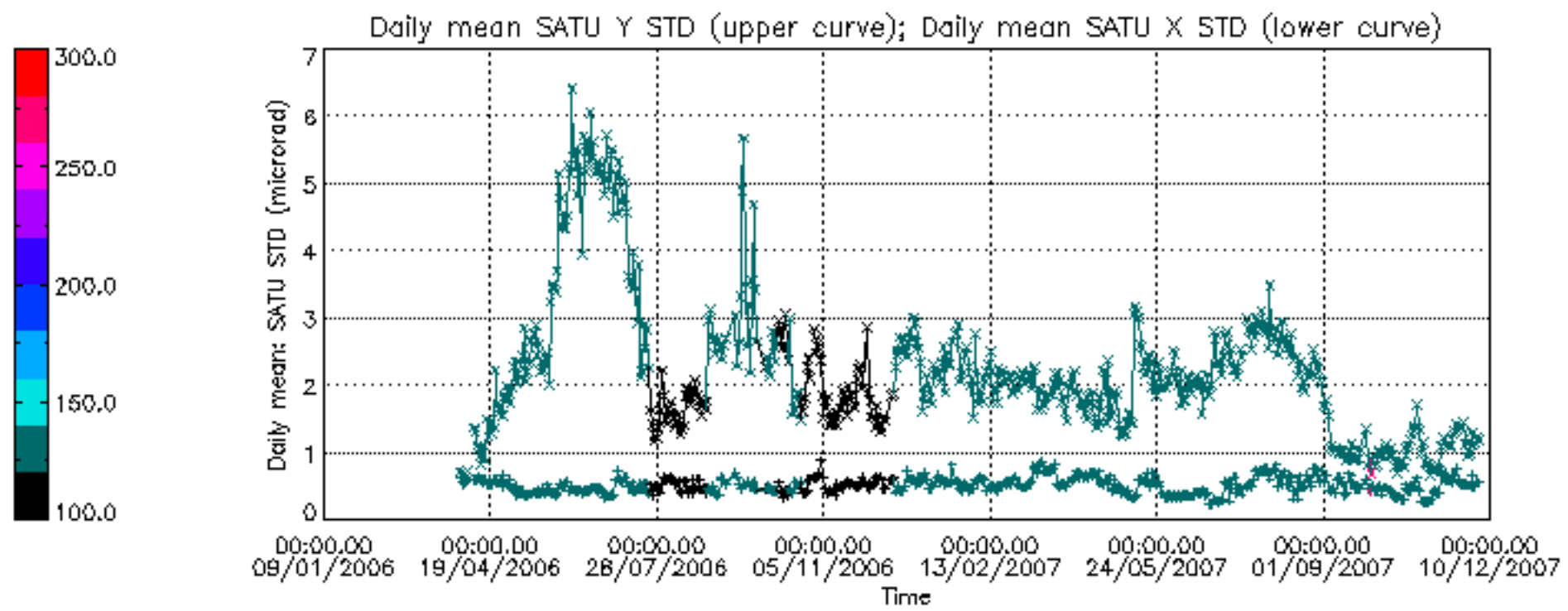


Tangent altitude at which the star is lost









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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

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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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 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
 17; 805.0; 01-DEC-2007 04:49:32; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;30076
 18; 1659.0; 01-DEC-2007 05:03:46; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;30076
 19; 1980.6; 01-DEC-2007 05:09:08; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;30076
 20; 2329.7; 01-DEC-2007 05:14:57; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;30076
 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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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071225_000802_000059112064_00302_30416_4990.N1

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22; 3699.5; 25-DEC-2007 01:22:00; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30417
23; 3914.5; 25-DEC-2007 01:25:35; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30417
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25; 4862.5; 25-DEC-2007 01:41:23; Bright; 33.0; 102; 24Alp Ser ; 2.60; 4250;occ; 66; 0;30417
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```

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26; 2848.8; 25-DEC-2007 06:09:37; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;30420
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_090954_000060672064_00308_30422_9708.N1

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 12; 3914.9; 25-DEC-2007 09:48:35; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30422
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 24; 6714.3; 25-DEC-2007 10:35:14; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30422
 25; 6985.5; 25-DEC-2007 10:39:46; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;30422
 26; 7335.0; 25-DEC-2007 10:45:35; Dark ; 39.5; 108; Alp Col ; 2.65; 15200;occ; 79; 0;30422
 27; 7619.4; 25-DEC-2007 10:50:19; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30422

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_105315_000059012064_00309_30423_9709.N1


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3; 2013.9; 25-DEC-2007 10:57:30; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30423
4; 2190.4; 25-DEC-2007 11:00:26; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;30423
5; 2463.2; 25-DEC-2007 11:04:59; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;30423
6; 2595.6; 25-DEC-2007 11:07:11; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30423
7; 2707.0; 25-DEC-2007 11:09:03; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30423
8; 2849.4; 25-DEC-2007 11:11:25; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;30423
9; 3422.8; 25-DEC-2007 11:20:59; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30423
10; 3699.3; 25-DEC-2007 11:25:35; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30423
11; 3915.0; 25-DEC-2007 11:29:11; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30423
12; 4528.1; 25-DEC-2007 11:39:24; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30423
13; 4863.9; 25-DEC-2007 11:45:00; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30423
14; 5154.6; 25-DEC-2007 11:49:51; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;30423
15; 5301.3; 25-DEC-2007 11:52:17; Bright; 38.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 77; 0;30423
16; 5701.5; 25-DEC-2007 11:58:57; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30423
17; 5803.4; 25-DEC-2007 12:00:39; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30423
18; 6038.5; 25-DEC-2007 12:04:34; Dark ; 38.5; 10; Bet Cen ; 0.61; 28000;occ; 77; 0;30423
19; 6215.9; 25-DEC-2007 12:07:32; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30423
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21; 6516.3; 25-DEC-2007 12:12:32; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30423
22; 6610.4; 25-DEC-2007 12:14:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30423
23; 6714.8; 25-DEC-2007 12:15:51; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30423
24; 6985.8; 25-DEC-2007 12:20:22; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30423
25; 7335.2; 25-DEC-2007 12:26:11; Dark ; 39.0; 108; Alp Col ; 2.65; 15200;occ; 78; 0;30423
26; 7619.4; 25-DEC-2007 12:30:55; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30423
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2; 1758.7; 25-DEC-2007 12:33:51; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;30424
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4; 2013.8; 25-DEC-2007 12:38:06; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30424
5; 2190.5; 25-DEC-2007 12:41:02; Dark ; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;30424
6; 2463.4; 25-DEC-2007 12:45:35; Bright; 35.5; 150; 44Zet Per ; 2.89; 28000;occ; 71; 0;30424
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8; 2706.7; 25-DEC-2007 12:49:39; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30424
9; 3422.8; 25-DEC-2007 13:01:35; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30424
10; 3699.3; 25-DEC-2007 13:06:11; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30424
11; 3915.1; 25-DEC-2007 13:09:47; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30424
12; 4528.2; 25-DEC-2007 13:20:00; Bright; 53.0; 67; 5Alp CrB ; 2.22; 11000;occ; 106; 0;30424
13; 4864.3; 25-DEC-2007 13:25:36; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30424
14; 5155.1; 25-DEC-2007 13:30:27; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30424
15; 5301.8; 25-DEC-2007 13:32:54; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;30424
16; 5702.1; 25-DEC-2007 13:39:34; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30424
17; 5803.8; 25-DEC-2007 13:41:16; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30424
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19; 6216.4; 25-DEC-2007 13:48:08; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30424
20; 6406.2; 25-DEC-2007 13:51:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30424
21; 6516.8; 25-DEC-2007 13:53:09; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30424
22; 6611.0; 25-DEC-2007 13:54:43; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30424
23; 6715.3; 25-DEC-2007 13:56:27; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;30424
24; 6986.2; 25-DEC-2007 14:00:58; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30424
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3; 1879.1; 25-DEC-2007 14:16:27; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;30425
4; 2013.8; 25-DEC-2007 14:18:42; Dark ; 44.5; 27; 24Gam Ori ; 1.64; 26000;occ; 89; 0;30425
5; 2190.6; 25-DEC-2007 14:21:38; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30425
6; 2463.8; 25-DEC-2007 14:26:11; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30425
7; 2595.8; 25-DEC-2007 14:28:23; Bright; 33.0; 149; 45Eps Per ; 2.89; 30000;occ; 66; 0;30425
8; 2706.6; 25-DEC-2007 14:30:14; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30425
9; 3422.9; 25-DEC-2007 14:42:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30425
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11; 3915.3; 25-DEC-2007 14:50:23; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30425
12; 4528.6; 25-DEC-2007 15:00:36; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30425
13; 4864.6; 25-DEC-2007 15:06:12; Bright; 51.5; 102; 24Alp Ser ; 2.60; 4250;occ; 103; 0;30425
14; 5155.5; 25-DEC-2007 15:11:03; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;30425
15; 5302.4; 25-DEC-2007 15:13:30; Bright; 40.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 80; 0;30425

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16; 5702.8; 25-DEC-2007 15:20:10; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;30425
 17; 5804.2; 25-DEC-2007 15:21:52; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30425
 18; 6039.3; 25-DEC-2007 15:25:47; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;30425
 19; 6217.0; 25-DEC-2007 15:28:45; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30425
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 21; 6517.2; 25-DEC-2007 15:33:45; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30425
 22; 6611.6; 25-DEC-2007 15:35:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30425
 23; 6715.9; 25-DEC-2007 15:37:04; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30425
 24; 6986.5; 25-DEC-2007 15:41:34; Dark ; 38.5; 2; Alp Car ; -0.74; 7000;occ; 77; 0;30425
 25; 7335.8; 25-DEC-2007 15:47:23; Dark ; 39.0; 108; Alp Col ; 2.65; 15200;occ; 78; 0;30425

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_154723_000057402064_00312_30426_9712.N1

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 3; 1759.0; 25-DEC-2007 15:55:03; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;30426
 4; 1879.0; 25-DEC-2007 15:57:03; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30426
 5; 2013.8; 25-DEC-2007 15:59:17; Dark ; 43.5; 27; 24Gam Ori ; 1.64; 26000;occ; 87; 0;30426
 6; 2190.6; 25-DEC-2007 16:02:14; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30426
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 11; 3699.2; 25-DEC-2007 16:27:23; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30426
 12; 3915.3; 25-DEC-2007 16:30:59; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30426
 13; 4528.7; 25-DEC-2007 16:41:12; Bright; 53.0; 67; 5Alp CrB ; 2.22; 11000;occ; 106; 0;30426
 14; 4864.7; 25-DEC-2007 16:46:48; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30426
 15; 5155.9; 25-DEC-2007 16:51:40; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30426
 16; 5302.9; 25-DEC-2007 16:54:06; Dark ; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;30426
 17; 5703.4; 25-DEC-2007 17:00:47; Dark ; 45.5; 54; 5The Cen ; 2.06; 4500;occ; 91; 0;30426
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 21; 6517.9; 25-DEC-2007 17:14:21; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30426
 22; 6612.3; 25-DEC-2007 17:15:56; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30426
 23; 6716.4; 25-DEC-2007 17:17:40; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30426
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_172800_000057342064_00313_30427_9713.N1

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 4; 1879.0; 25-DEC-2007 17:37:39; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30427
 5; 2013.7; 25-DEC-2007 17:39:53; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30427
 6; 2190.7; 25-DEC-2007 17:42:50; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30427
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 10; 3422.8; 25-DEC-2007 18:03:22; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30427
 11; 3699.0; 25-DEC-2007 18:07:59; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30427
 12; 3915.5; 25-DEC-2007 18:11:35; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30427
 13; 4528.8; 25-DEC-2007 18:21:48; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30427
 14; 4865.0; 25-DEC-2007 18:27:25; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30427
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 16; 5303.2; 25-DEC-2007 18:34:43; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30427
 17; 5704.0; 25-DEC-2007 18:41:24; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30427
 18; 5804.9; 25-DEC-2007 18:43:05; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30427
 19; 6218.0; 25-DEC-2007 18:49:58; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30427
 20; 6407.3; 25-DEC-2007 18:53:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30427
 21; 6518.4; 25-DEC-2007 18:54:58; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30427
 22; 6612.9; 25-DEC-2007 18:56:33; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30427
 23; 6716.9; 25-DEC-2007 18:58:17; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30427
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071225_190836_000057342064_00314_30428_9714.N1

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 3; 1759.2; 25-DEC-2007 19:16:15; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30428
 4; 1879.0; 25-DEC-2007 19:18:15; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;30428
 5; 2013.7; 25-DEC-2007 19:20:29; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30428
 6; 2190.7; 25-DEC-2007 19:23:26; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;30428
 7; 2464.2; 25-DEC-2007 19:28:00; Bright; 34.0; 150; 44Zet Per ; 2.89; 28000;occ; 68; 0;30428

8; 2596.0; 25-DEC-2007 19:30:12; Bright; 43.5; 149; 45Eps Per ; 2.89; 30000;occ; 87; 0;30428
9; 2706.0; 25-DEC-2007 19:32:02; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30428
10; 3422.7; 25-DEC-2007 19:43:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30428
11; 3698.9; 25-DEC-2007 19:48:35; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30428
12; 3915.5; 25-DEC-2007 19:52:11; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30428
13; 4529.1; 25-DEC-2007 20:02:25; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30428
14; 4865.1; 25-DEC-2007 20:08:01; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30428
15; 5156.4; 25-DEC-2007 20:12:52; Bright; 53.0; 104; 27Bet Lib ; 2.61; 13100;occ; 106; 0;30428
16; 5303.6; 25-DEC-2007 20:15:19; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30428
17; 5704.5; 25-DEC-2007 20:22:00; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30428
18; 5805.2; 25-DEC-2007 20:23:41; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30428
19; 6040.3; 25-DEC-2007 20:27:36; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;30428
20; 6218.3; 25-DEC-2007 20:30:34; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30428
21; 6407.5; 25-DEC-2007 20:33:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30428
22; 6518.7; 25-DEC-2007 20:35:34; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30428
23; 6613.4; 25-DEC-2007 20:37:09; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30428
24; 6717.3; 25-DEC-2007 20:38:53; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30428
25; 6987.4; 25-DEC-2007 20:43:23; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30428

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071225_204323_000043902064_00315_30429_4994.N1

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2; 1300.5; 25-DEC-2007 20:49:12; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30429
3; 1584.2; 25-DEC-2007 20:53:56; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;30429
4; 1759.2; 25-DEC-2007 20:56:51; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;30429
5; 1879.0; 25-DEC-2007 20:58:51; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;30429
6; 2013.7; 25-DEC-2007 21:01:05; Dark ; 44.5; 27; 24Gam Ori ; 1.64; 26000;occ; 89; 0;30429
7; 2190.8; 25-DEC-2007 21:04:02; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30429
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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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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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27; 2784.7; 28-DEC-2007 06:14:18; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 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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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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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071228_123646_000057952064_00353_30467_9736.N1


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