

GOMOS Daily Report 26-SEP-2011

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	29SEP2011 07:01:29
Data source version	GOMOS/6.01
Start time of products	26SEP2011 12:06:12
Stop time of products	26SEP2011 21:13:52
Store outputs in DB	Yes
Nb of level 1b prods	32
Nb of prods with errors	1

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

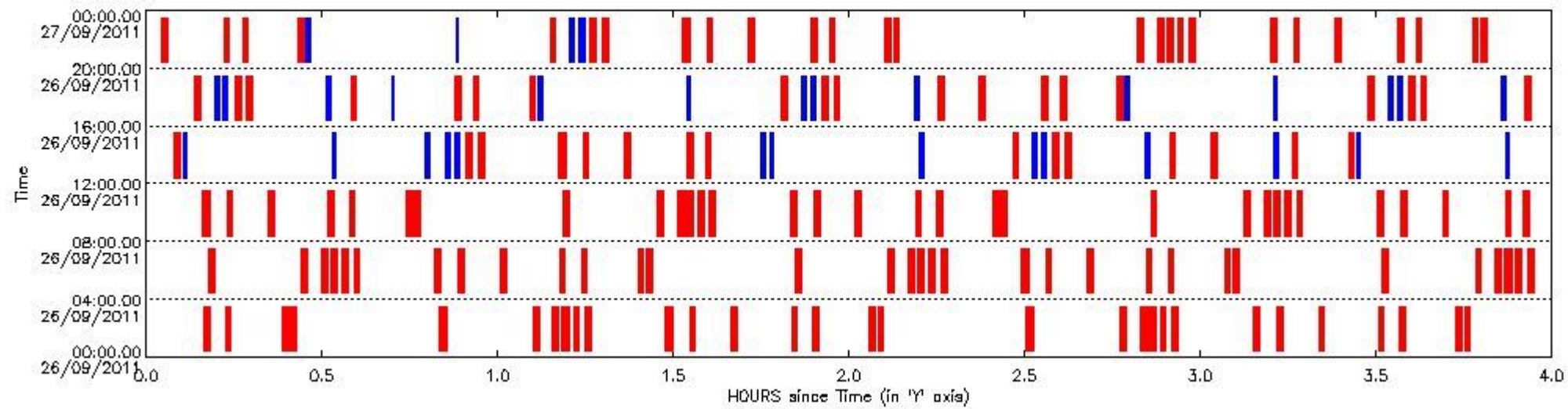
2.1 Level 0 products arrived in PCF (see template [here](#))

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
26-SEP-2011 00:09:55	54AlpPeg	90	50059
26-SEP-2011 00:13:35	53BetPeg	93	50059
26-SEP-2011 00:23:12	11BetCas	74	50059
26-SEP-2011 00:24:40	27GamCas	76	50059
26-SEP-2011 00:50:04	78BetGem	17	50059
26-SEP-2011 01:05:59	15RhoPup	132	50059
26-SEP-2011 01:09:21	31EtaCMa	88	50059
26-SEP-2011 01:10:53	21EpsCMa	23	50059
26-SEP-2011 01:12:54	DSA1055	0	50059
26-SEP-2011 01:14:56	TauPup	161	50060
26-SEP-2011 01:28:38	The1Eri	157	50060
26-SEP-2011 01:32:51	AlpPhe	84	50060
26-SEP-2011 01:39:54	16BetCet	52	50060
26-SEP-2011 01:50:09	54AlpPeg	90	50060
26-SEP-2011 01:53:49	53BetPeg	93	50060

26-SEP-2011 02:03:26	11BetCas	74	50060
26-SEP-2011 02:04:53	27GamCas	76	50060
26-SEP-2011 02:30:18	78BetGem	17	50060
26-SEP-2011 02:46:13	15RhoPup	132	50060
26-SEP-2011 02:49:36	31EtaCMa	88	50060
26-SEP-2011 02:51:08	21EpsCMa	23	50060
26-SEP-2011 02:53:09	DSA1055	0	50060
26-SEP-2011 02:55:10	TauPup	161	50061
26-SEP-2011 03:08:53	The1Eri	157	50061
26-SEP-2011 03:13:05	AlpPhe	84	50061
26-SEP-2011 03:20:08	16BetCet	52	50061
26-SEP-2011 03:30:23	54AlpPeg	90	50061
26-SEP-2011 03:34:03	53BetPeg	93	50061
26-SEP-2011 03:43:40	11BetCas	74	50061
26-SEP-2011 03:45:07	27GamCas	76	50061
26-SEP-2011 04:10:32	78BetGem	17	50061
26-SEP-2011 04:26:28	15RhoPup	132	50061
26-SEP-2011 04:29:51	31EtaCMa	88	50061
26-SEP-2011 04:31:24	21EpsCMa	23	50061
26-SEP-2011 04:33:23	DSA1055	0	50061
26-SEP-2011 04:35:25	TauPup	161	50062
26-SEP-2011 04:49:08	The1Eri	157	50062
26-SEP-2011 04:53:20	AlpPhe	84	50062
26-SEP-2011 05:00:22	16BetCet	52	50062
26-SEP-2011 05:10:37	54AlpPeg	90	50062
26-SEP-2011 05:14:17	53BetPeg	93	50062
26-SEP-2011 05:23:53	11BetCas	74	50062
26-SEP-2011 05:25:20	27GamCas	76	50062
26-SEP-2011 05:50:46	78BetGem	17	50062
26-SEP-2011 06:06:43	15RhoPup	132	50062
26-SEP-2011 06:10:06	31EtaCMa	88	50062
26-SEP-2011 06:11:39	21EpsCMa	23	50062
26-SEP-2011 06:13:38	DSA1055	0	50062
26-SEP-2011 06:15:40	TauPup	161	50063
26-SEP-2011 06:29:23	The1Eri	157	50063
26-SEP-2011 06:33:34	AlpPhe	84	50063
26-SEP-2011 06:40:37	16BetCet	52	50063
26-SEP-2011 06:50:51	54AlpPeg	90	50063
26-SEP-2011 06:54:31	53BetPeg	93	50063
26-SEP-2011 07:04:07	11BetCas	74	50063
26-SEP-2011 07:05:34	27GamCas	76	50063
26-SEP-2011 07:31:01	78BetGem	17	50063
26-SEP-2011 07:46:57	15RhoPup	132	50063
26-SEP-2011 07:50:21	31EtaCMa	88	50063
26-SEP-2011 07:51:54	21EpsCMa	23	50063
26-SEP-2011 07:53:52	DSA1055	0	50063
26-SEP-2011 07:55:54	TauPup	161	50064
26-SEP-2011 08:09:38	The1Eri	157	50064
26-SEP-2011 08:13:48	AlpPhe	84	50064
26-SEP-2011 08:20:51	16BetCet	52	50064
26-SEP-2011 08:31:05	54AlpPeg	90	50064
26-SEP-2011 08:34:45	53BetPeg	93	50064
26-SEP-2011 08:44:21	11BetCas	74	50064
26-SEP-2011 08:45:47	27GamCas	76	50064
26-SEP-2011 09:11:15	78BetGem	17	50064
26-SEP-2011 09:27:12	15RhoPup	132	50064
26-SEP-2011 09:30:36	31EtaCMa	88	50064
26-SEP-2011 09:32:09	21EpsCMa	23	50064
26-SEP-2011 09:34:07	DSA1055	0	50064

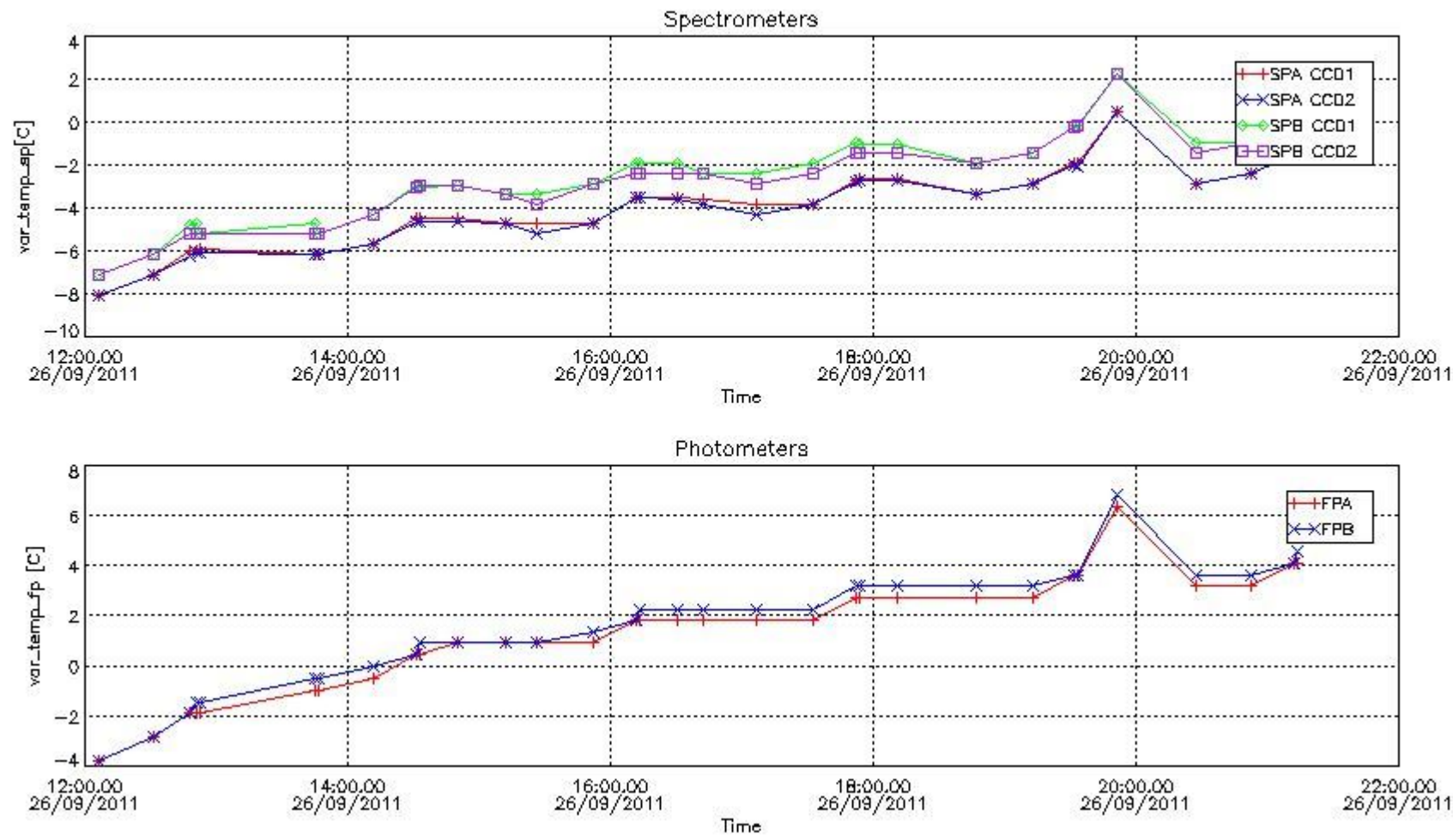
26-SEP-2011 09:36:09	TauPup	161	50065
26-SEP-2011 09:49:52	The1Eri	157	50065
26-SEP-2011 09:54:02	AlpPhe	84	50065
26-SEP-2011 10:01:05	16BetCet	52	50065
26-SEP-2011 10:11:19	54AlpPeg	90	50065
26-SEP-2011 10:14:59	53BetPeg	93	50065
26-SEP-2011 10:24:34	11BetCas	74	50065
26-SEP-2011 10:26:01	27GamCas	76	50065
26-SEP-2011 10:51:29	78BetGem	17	50065
26-SEP-2011 11:07:27	15RhoPup	132	50065
26-SEP-2011 11:10:51	31EtaCMa	88	50065
26-SEP-2011 11:12:24	21EpsCMa	23	50065
26-SEP-2011 11:14:22	DSA1055	0	50065
26-SEP-2011 11:16:24	TauPup	161	50066
26-SEP-2011 11:30:07	The1Eri	157	50066
26-SEP-2011 11:34:17	AlpPhe	84	50066
26-SEP-2011 11:41:19	16BetCet	52	50066
26-SEP-2011 11:52:03	88GamPeg	140	50066
26-SEP-2011 11:55:13	53BetPeg	93	50066
26-SEP-2011 12:04:48	11BetCas	74	50066
26-SEP-2011 12:54:36	DSA1055	0	50066
26-SEP-2011 12:56:38	TauPup	161	50067
26-SEP-2011 13:10:22	The1Eri	157	50067
26-SEP-2011 13:14:31	AlpPhe	84	50067
26-SEP-2011 13:21:33	16BetCet	52	50067
26-SEP-2011 13:32:17	88GamPeg	140	50067
26-SEP-2011 13:35:26	53BetPeg	93	50067
26-SEP-2011 14:27:56	15RhoPup	132	50067
26-SEP-2011 14:34:51	DSA1055	0	50067
26-SEP-2011 14:36:53	TauPup	161	50068
26-SEP-2011 14:54:45	AlpPhe	84	50068
26-SEP-2011 15:01:47	16BetCet	52	50068
26-SEP-2011 15:15:40	53BetPeg	93	50068
26-SEP-2011 15:25:15	11BetCas	74	50068
26-SEP-2011 16:08:11	15RhoPup	132	50068
26-SEP-2011 16:15:06	DSA1055	0	50068
26-SEP-2011 16:17:08	TauPup	161	50069
26-SEP-2011 16:34:59	AlpPhe	84	50069
26-SEP-2011 16:52:44	88GamPeg	140	50069
26-SEP-2011 16:55:54	53BetPeg	93	50069
26-SEP-2011 17:05:29	11BetCas	74	50069
26-SEP-2011 17:48:26	15RhoPup	132	50069
26-SEP-2011 17:55:20	DSA1055	0	50069
26-SEP-2011 17:57:22	TauPup	161	50070
26-SEP-2011 18:15:14	AlpPhe	84	50070
26-SEP-2011 18:22:15	16BetCet	52	50070
26-SEP-2011 18:32:58	88GamPeg	140	50070
26-SEP-2011 18:36:08	53BetPeg	93	50070
26-SEP-2011 18:45:43	11BetCas	74	50070
26-SEP-2011 19:28:40	15RhoPup	132	50070
26-SEP-2011 19:35:35	DSA1055	0	50070
26-SEP-2011 19:37:37	TauPup	161	50071
26-SEP-2011 19:55:28	AlpPhe	84	50071
26-SEP-2011 20:02:29	16BetCet	52	50071
26-SEP-2011 20:13:12	88GamPeg	140	50071
26-SEP-2011 20:16:22	53BetPeg	93	50071
26-SEP-2011 20:25:56	11BetCas	74	50071
26-SEP-2011 21:08:55	15RhoPup	132	50071
26-SEP-2011 21:15:50	DSA1055	0	50071

26-SEP-2011 21:17:52	TauPup	161	50072
26-SEP-2011 21:31:35	The1Eri	157	50072
26-SEP-2011 21:35:42	AlpPhe	84	50072
26-SEP-2011 21:42:43	16BetCet	52	50072
26-SEP-2011 21:53:25	88GamPeg	140	50072
26-SEP-2011 21:56:36	53BetPeg	93	50072
26-SEP-2011 22:06:10	11BetCas	74	50072
26-SEP-2011 22:07:36	27GamCas	76	50072
26-SEP-2011 22:49:10	15RhoPup	132	50072
26-SEP-2011 22:52:35	31EtaCMa	88	50072
26-SEP-2011 22:54:10	21EpsCMa	23	50072
26-SEP-2011 22:56:04	DSA1055	0	50072
26-SEP-2011 22:58:06	TauPup	161	50073
26-SEP-2011 23:11:50	The1Eri	157	50073
26-SEP-2011 23:15:57	AlpPhe	84	50073
26-SEP-2011 23:22:58	16BetCet	52	50073
26-SEP-2011 23:33:39	88GamPeg	140	50073
26-SEP-2011 23:36:50	53BetPeg	93	50073
26-SEP-2011 23:46:24	11BetCas	74	50073
26-SEP-2011 23:47:49	27GamCas	76	50073

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_1PNPDK20110926_120612_000000413107_00052_50066_0052.N1	26-SEP-2011 12:06:12	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	50066	No
2	GOM_TRA_1PNPDK20110926_123141_000000443107_00052_50066_0053.N1	26-SEP-2011 12:31:41	Bright	44.000	17	78Bet Gem	1.1610	4500.0	88	50066	No
3	GOM_TRA_1PNPDK20110926_124739_000000493107_00052_50066_0054.N1	26-SEP-2011 12:47:39	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	50066	No
4	GOM_TRA_1PNPDK20110926_125103_000000503107_00052_50066_0055.N1	26-SEP-2011 12:51:03	Dark	50.000	88	31Eta CMa	2.4480	20000.	100	50066	No
5	GOM_TRA_1PNPDK20110926_125237_000000543107_00052_50066_0056.N1	26-SEP-2011 12:52:37	Dark	53.500	23	21Eps CMa	1.5020	26000.	107	50066	No
6	GOM_TRA_1PNPDK20110926_134459_000000403107_00053_50067_0095.N1	26-SEP-2011 13:44:59	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	50067	No
7	GOM_TRA_1PNPDK20110926_134626_000000413107_00053_50067_0096.N1	26-SEP-2011 13:46:26	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	50067	No
8	GOM_TRA_1PNPDK20110926_141155_000000443107_00053_50067_0097.N1	26-SEP-2011 14:11:55	Bright	44.000	17	78Bet Gem	1.1610	4500.0	88	50067	No
9	GOM_TRA_1PNPDK20110926_143118_000000473107_00053_50067_0098.N1	26-SEP-2011 14:31:18	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	50067	No
10	GOM_TRA_1PNPDK20110926_143252_000000523107_00053_50067_0099.N1	26-SEP-2011 14:32:52	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	50067	No
11	GOM_TRA_1PNPDK20110926_145034_000000513107_00054_50068_0100.N1	26-SEP-2011 14:50:34	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	50068	No
12	GOM_TRA_1PNPDK20110926_151228_000000423107_00054_50068_0125.N1	26-SEP-2011 15:12:28	Bright	42.000	140	88Gam Peg	2.8340	26000.	84	50068	No
13	GOM_TRA_1PNPDK20110926_152639_000000413107_00054_50068_0126.N1	26-SEP-2011 15:26:39	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	50068	No
14	GOM_TRA_1PNPDK20110926_155209_000000353107_00054_50068_0127.N1	26-SEP-2011 15:52:09	Twilight_stray	35.000	17	78Bet Gem	1.1610	4500.0	70	50068	No
15	GOM_TRA_1PNPDK20110926_161133_000000503107_00054_50068_0128.N1	26-SEP-2011 16:11:33	Dark	49.500	88	31Eta CMa	2.4480	20000.	99	50068	No
16	GOM_TRA_1PNPDK20110926_161307_000000503107_00054_50068_0129.N1	26-SEP-2011 16:13:07	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	50068	No
17	GOM_TRA_1PNPDK20110926_163049_000000493107_00055_50069_0130.N1	26-SEP-2011 16:30:49	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	50069	No
18	GOM_TRA_1PNPDK20110926_164159_000000203107_00055_50069_0153.N1	26-SEP-2011 16:41:59	Twilight_stray	20.000	52	16Bet Cet	2.0370	4500.0	40	50069	No
19	GOM_TRA_1PNPDK20110926_170653_000000403107_00055_50069_0154.N1	26-SEP-2011 17:06:53	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50069	No
20	GOM_TRA_1PNPDK20110926_173223_000000353107_00055_50069_0155.N1	26-SEP-2011 17:32:23	Twilight_stray	35.000	17	78Bet Gem	1.1610	4500.0	70	50069	No
21	GOM_TRA_1PNPDK20110926_175148_000000473107_00055_50069_0156.N1	26-SEP-2011 17:51:48	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	50069	No
22	GOM_TRA_1PNPDK20110926_175322_000000513107_00055_50069_0157.N1	26-SEP-2011 17:53:22	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	50069	No
23	GOM_TRA_1PNPDK20110926_181104_000000503107_00056_50070_0158.N1	26-SEP-2011 18:11:04	Straylight	50.000	157	The1Eri	2.9060	9300.0	100	50070	No
24	GOM_TRA_1PNPDK20110926_184706_000000423107_00056_50070_0187.N1	26-SEP-2011 18:47:06	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	50070	No
25	GOM_TRA_1PNPDK20110926_191237_000000273107_00056_50070_0188.N1	26-SEP-2011 19:12:37	Twilight_stray	27.000	17	78Bet Gem	1.1610	4500.0	54	50070	No
26	GOM_TRA_1PNPDK20110926_193203_000000473107_00056_50070_0189.N1	26-SEP-2011 19:32:03	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	50070	No
27	GOM_TRA_1PNPDK20110926_193337_000000543107_00056_50070_0190.N1	26-SEP-2011 19:33:37	Dark	53.500	23	21Eps CMa	1.5020	26000.	107	50070	No
28	GOM_TRA_1PNPDE20110926_195118_000000513107_00057_50071_1608.N1	26-SEP-2011 19:51:18	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	50071	Yes
29	GOM_TRA_1PNPDE20110926_202720_000000413107_00057_50071_1609.N1	26-SEP-2011 20:27:20	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	50071	No
30	GOM_TRA_1PNPDE20110926_205252_000000273107_00057_50071_1610.N1	26-SEP-2011 20:52:52	Twilight_stray	26.500	17	78Bet Gem	1.1610	4500.0	53	50071	No
31	GOM_TRA_1PNPDE20110926_211218_000000493107_00057_50071_1631.N1	26-SEP-2011 21:12:18	Dark	48.500	88	31Eta CMa	2.4480	20000.	97	50071	No
32	GOM_TRA_1PNPDE20110926_211352_000000563107_00057_50071_1632.N1	26-SEP-2011 21:13:52	Dark	55.500	23	21Eps CMa	1.5020	26000.	111	50071	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).

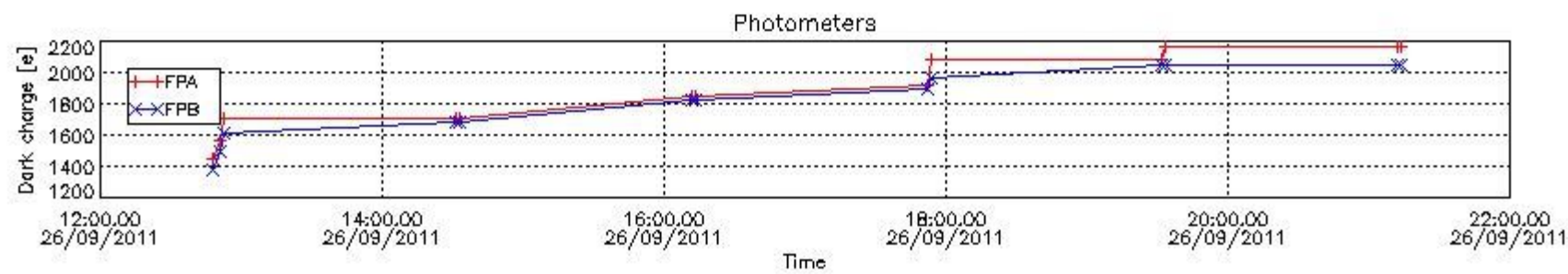
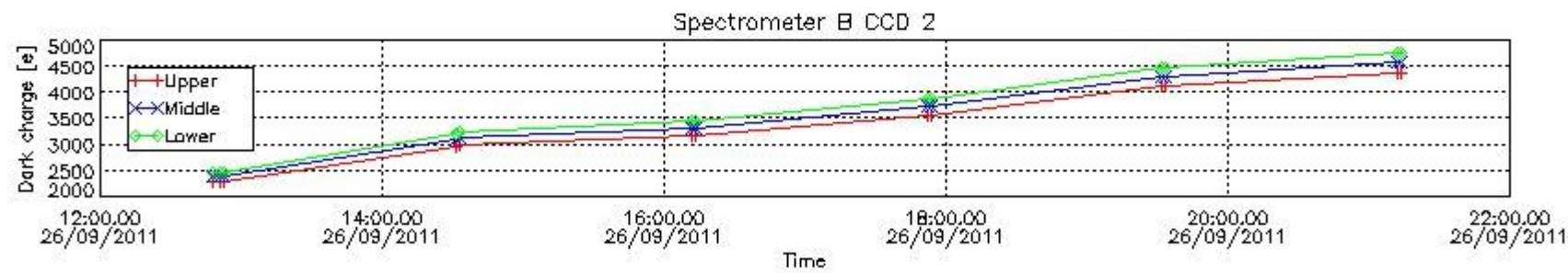
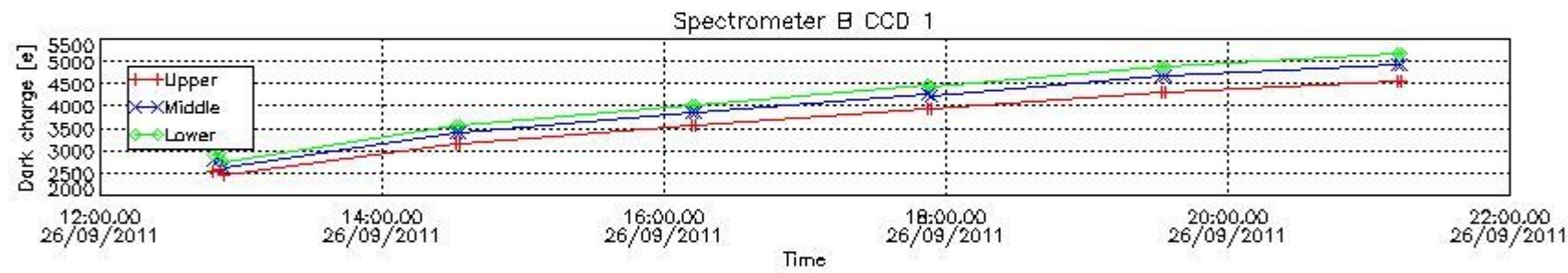
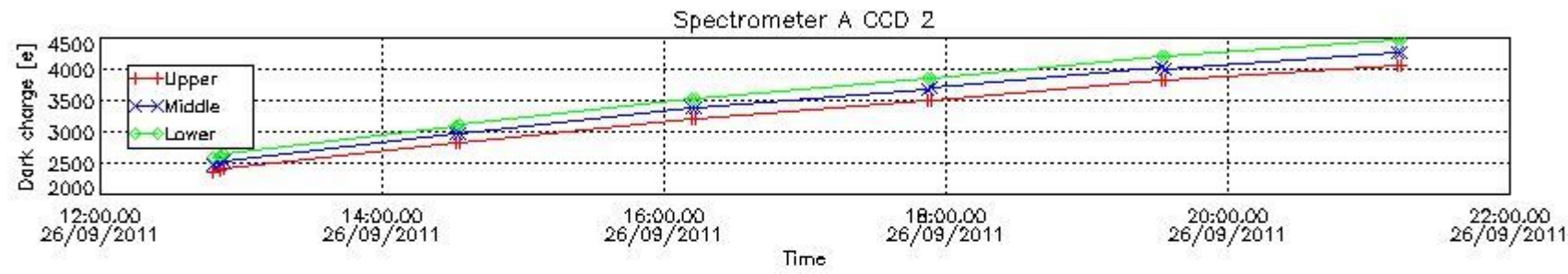
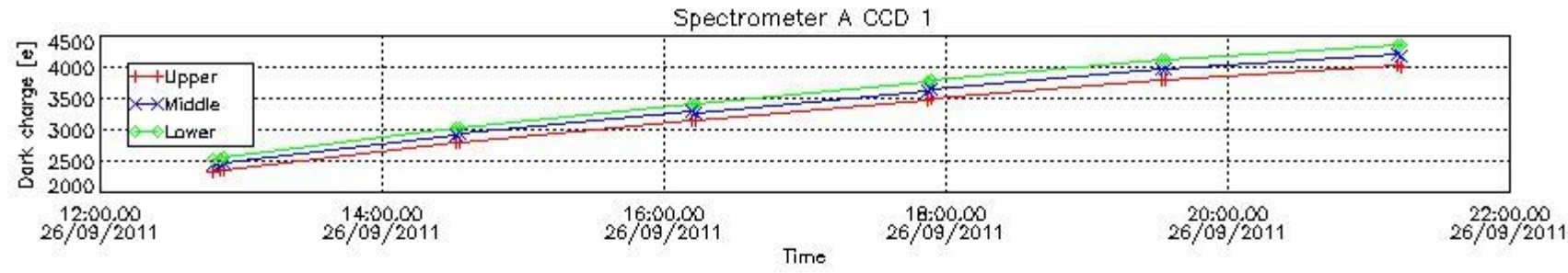
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDK20110926_120612_000000413107_00052_50066_0052.N1	DC map used
GOM_TRA_1PNPDK20110926_123141_000000443107_00052_50066_0053.N1	DC map used
GOM_TRA_1PNPDK20110926_124739_000000493107_00052_50066_0054.N1	DC map used
GOM_TRA_1PNPDK20110926_125103_000000503107_00052_50066_0055.N1	DC map used
GOM_TRA_1PNPDK20110926_125237_000000543107_00052_50066_0056.N1	DC map used
GOM_TRA_1PNPDK20110926_134459_000000403107_00053_50067_0095.N1	DC map used
GOM_TRA_1PNPDK20110926_134626_000000413107_00053_50067_0096.N1	DC map used
GOM_TRA_1PNPDK20110926_141155_000000443107_00053_50067_0097.N1	DC map used
GOM_TRA_1PNPDK20110926_143118_000000473107_00053_50067_0098.N1	DC map used
GOM_TRA_1PNPDK20110926_143252_000000523107_00053_50067_0099.N1	DC map used
GOM_TRA_1PNPDK20110926_145034_000000513107_00054_50068_0100.N1	DC map used
GOM_TRA_1PNPDK20110926_151228_000000423107_00054_50068_0125.N1	DC map used

GOM_TRA_1PNPDK20110926_152639_000000413107_00054_50068_0126.N1	DC map used
GOM_TRA_1PNPDK20110926_155209_000000353107_00054_50068_0127.N1	DC map used
GOM_TRA_1PNPDK20110926_161133_000000503107_00054_50068_0128.N1	DC map used
GOM_TRA_1PNPDK20110926_161307_000000503107_00054_50068_0129.N1	DC map used
GOM_TRA_1PNPDK20110926_163049_000000493107_00055_50069_0130.N1	DC map used
GOM_TRA_1PNPDK20110926_164159_000000203107_00055_50069_0153.N1	DC map used
GOM_TRA_1PNPDK20110926_170653_000000403107_00055_50069_0154.N1	DC map used
GOM_TRA_1PNPDK20110926_173223_000000353107_00055_50069_0155.N1	DC map used
GOM_TRA_1PNPDK20110926_175148_000000473107_00055_50069_0156.N1	DC map used
GOM_TRA_1PNPDK20110926_175322_000000513107_00055_50069_0157.N1	DC map used
GOM_TRA_1PNPDK20110926_181104_000000503107_00056_50070_0158.N1	DC map used
GOM_TRA_1PNPDK20110926_184706_000000423107_00056_50070_0187.N1	DC map used
GOM_TRA_1PNPDK20110926_191237_000000273107_00056_50070_0188.N1	DC map used
GOM_TRA_1PNPDK20110926_193203_000000473107_00056_50070_0189.N1	DC map used
GOM_TRA_1PNPDK20110926_193337_000000543107_00056_50070_0190.N1	DC map used
GOM_TRA_1PNPDE20110926_195118_000000513107_00057_50071_1608.N1	DC map with no T dep.
GOM_TRA_1PNPDE20110926_202720_000000413107_00057_50071_1609.N1	DC map used
GOM_TRA_1PNPDE20110926_205252_000000273107_00057_50071_1610.N1	DC map used
GOM_TRA_1PNPDE20110926_211218_000000493107_00057_50071_1631.N1	DC map used
GOM_TRA_1PNPDE20110926_211352_000000563107_00057_50071_1632.N1	DC map used

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



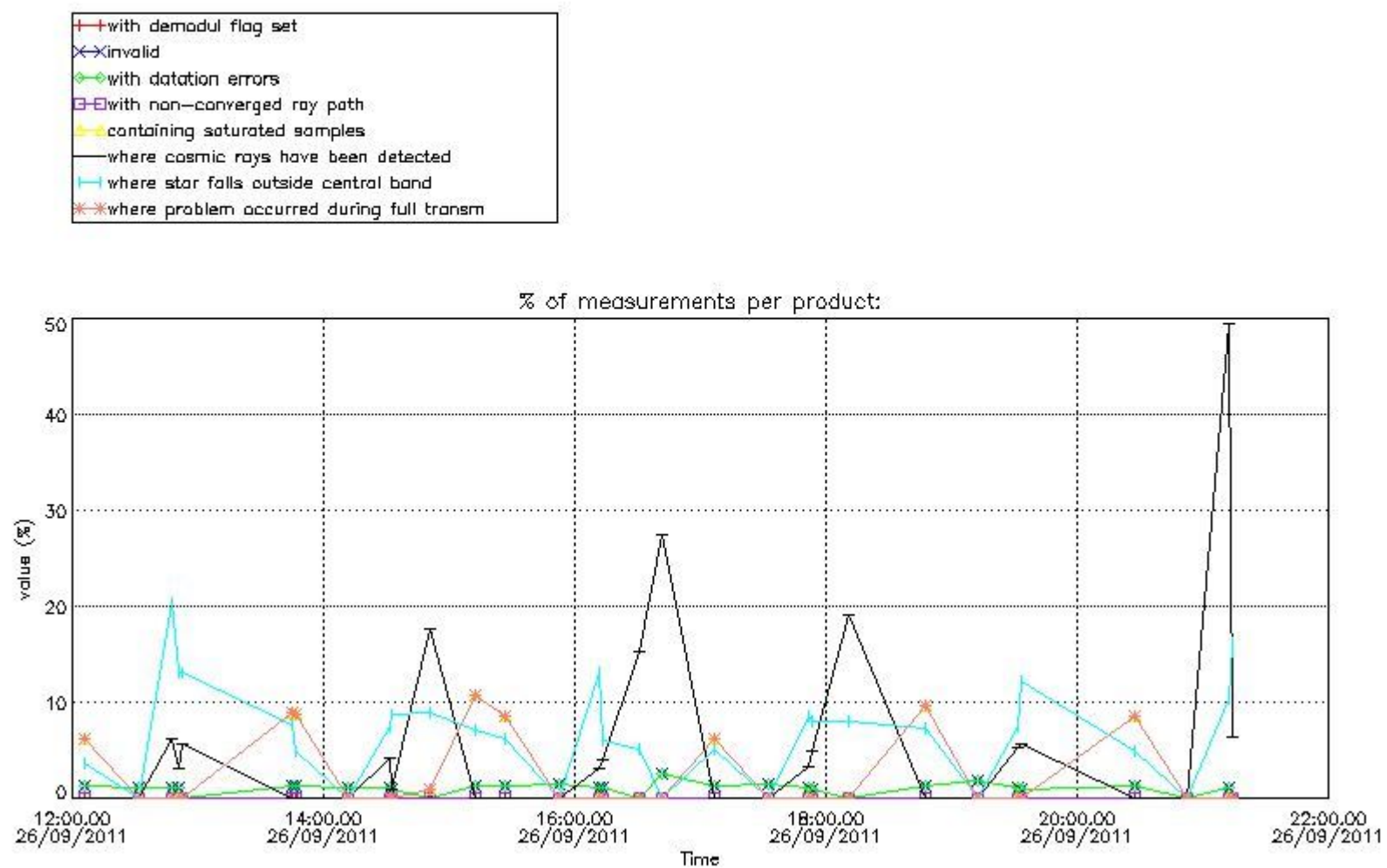
5. Demodulation flag and quality information monitoring

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.

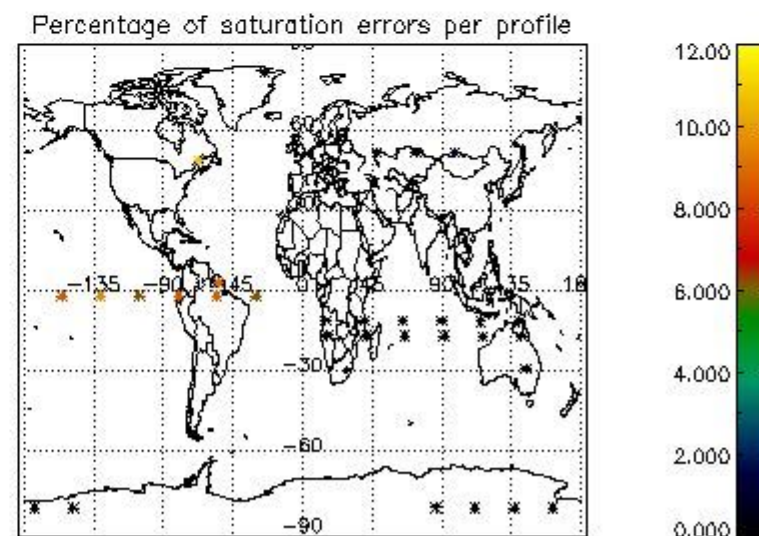
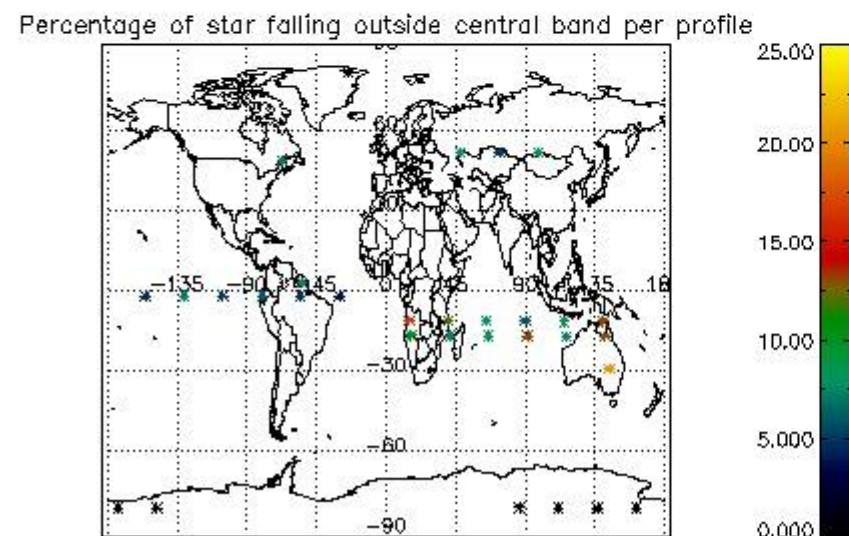
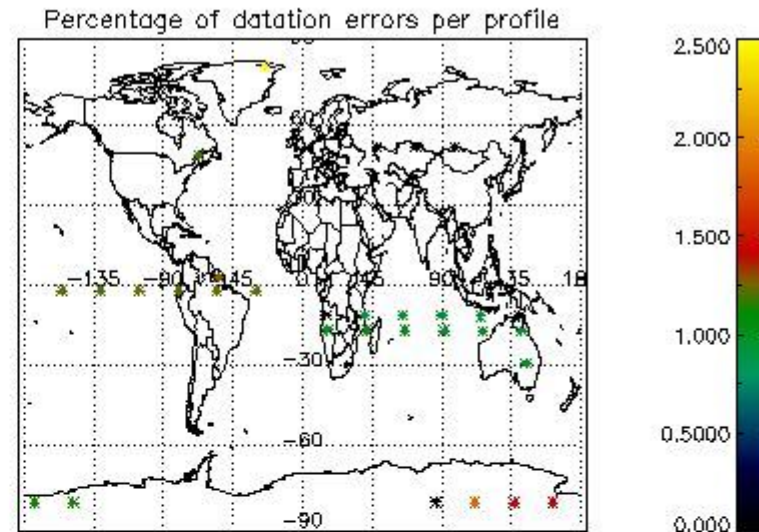
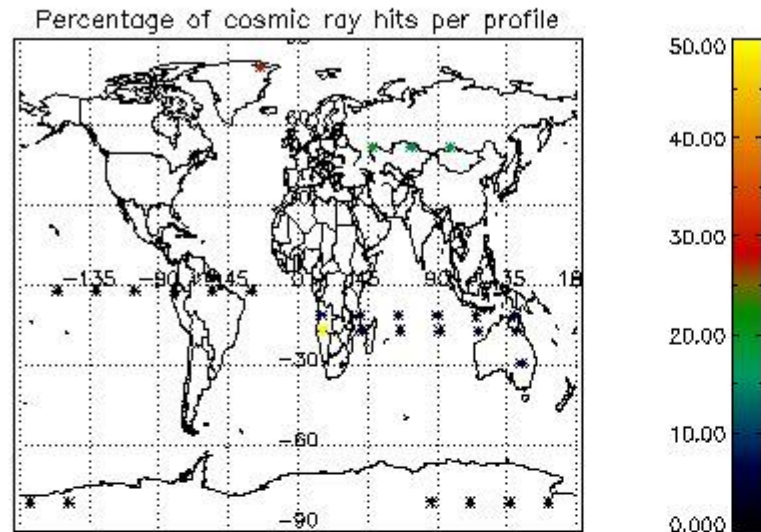
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	9.67742 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	32.2581 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



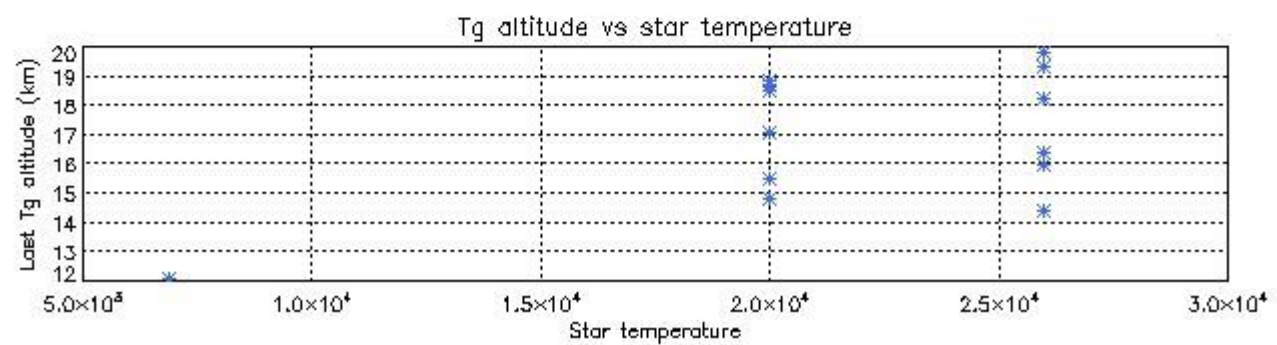
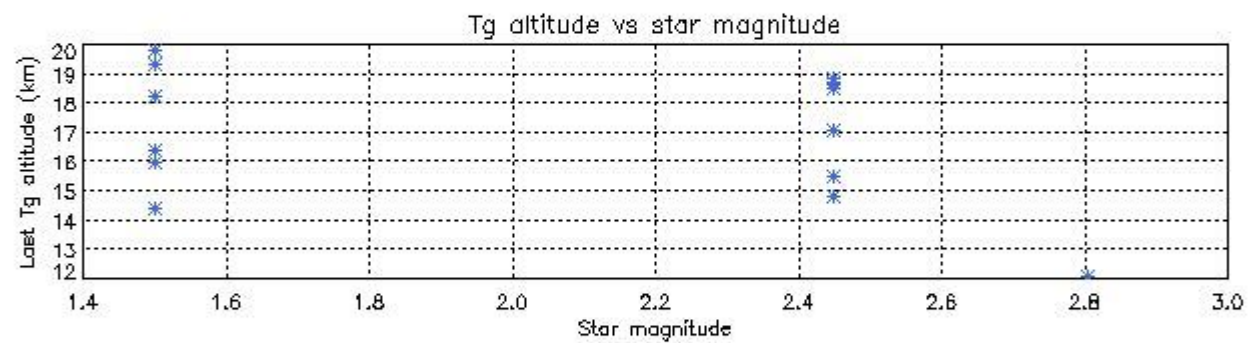
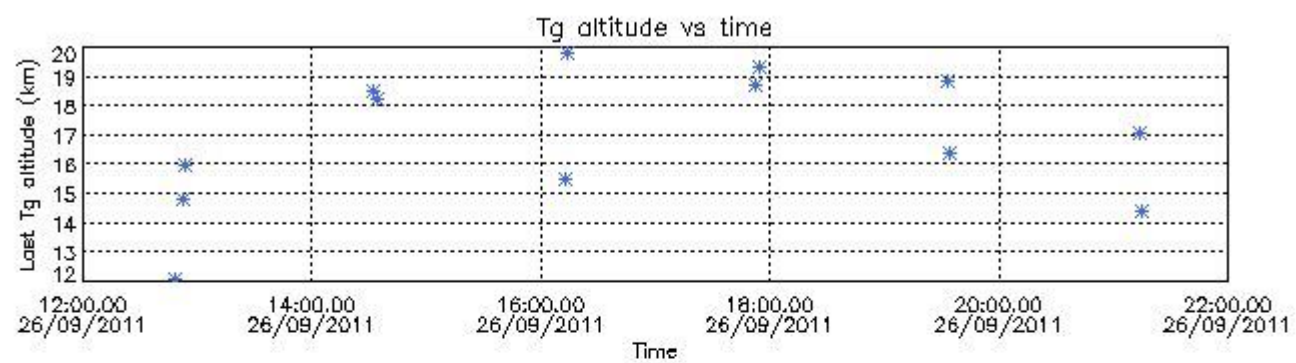
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.884	23.332	NaN
St. deviation:	2.2897	4.0558	NaN
Maximum:	19.769	30.903	NaN
Minimum:	12.036	20.553	NaN
Number of data:	13.000	10.000	NaN

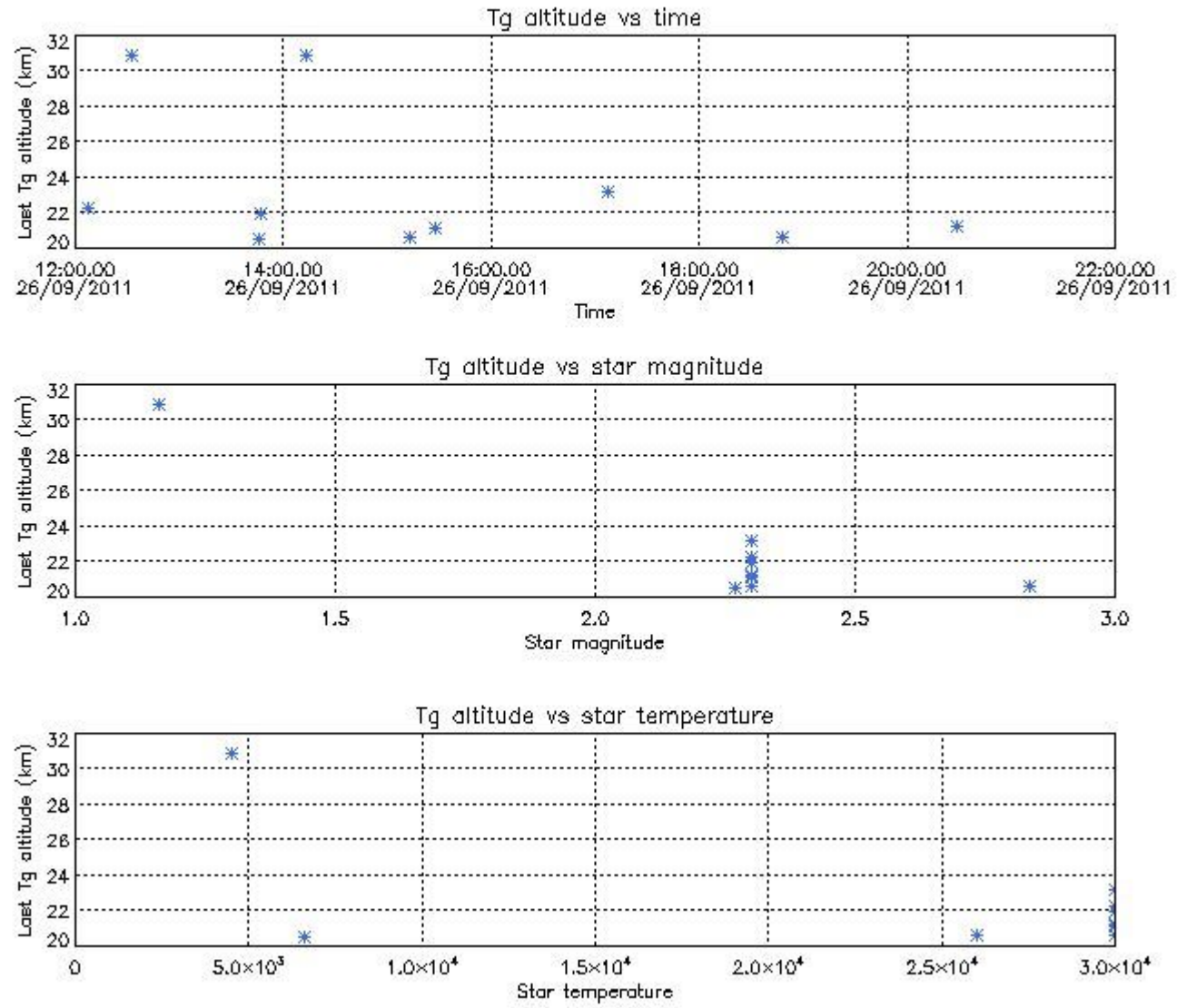
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

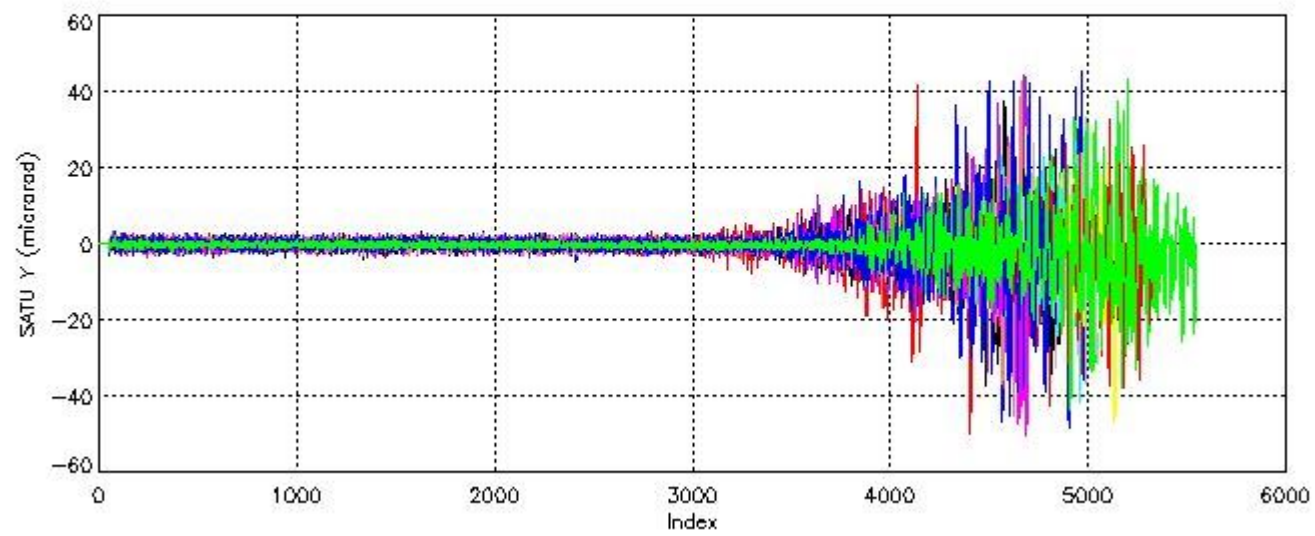
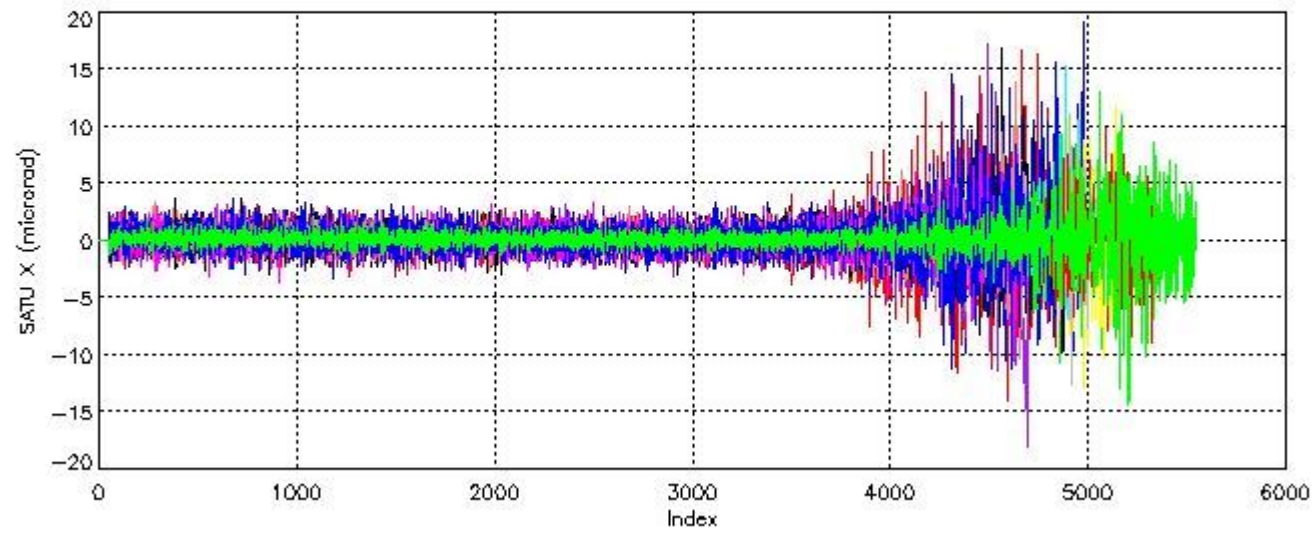


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24797	-0.22788	0.18859	-0.22968
St. deviation:	0.69381	0.73981	0.77391	0.80664
Maximum:	3.7000	3.0000	5.5000	5.8000
Minimum:	-3.6000	-3.7000	-5.0000	-6.1000

Number of data:	14800.	14800.	10250.	10250.
90Percentile:	1.1000	0.70000	1.1000	0.80000

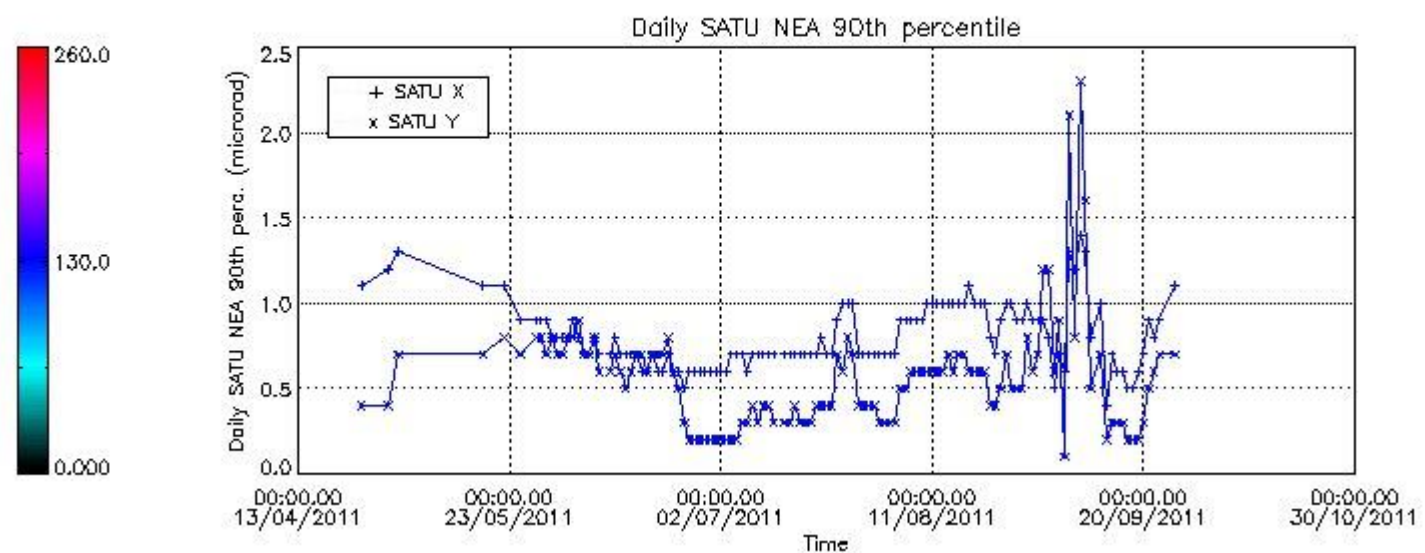
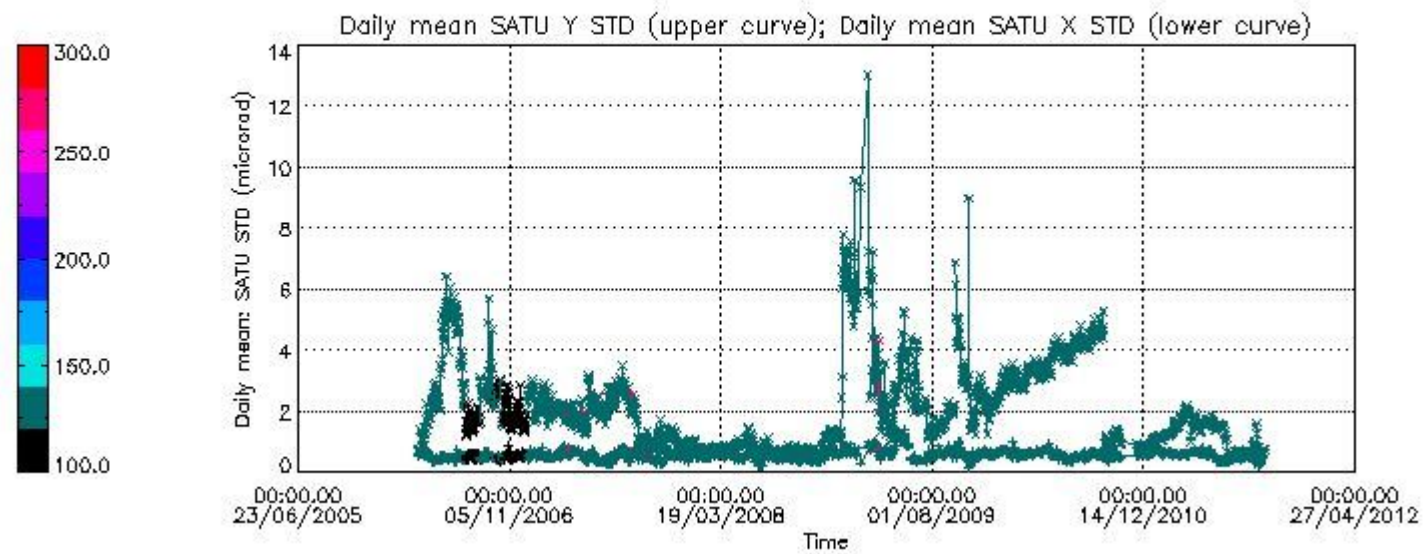
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

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

Upper curve: STD of SATU Y axis

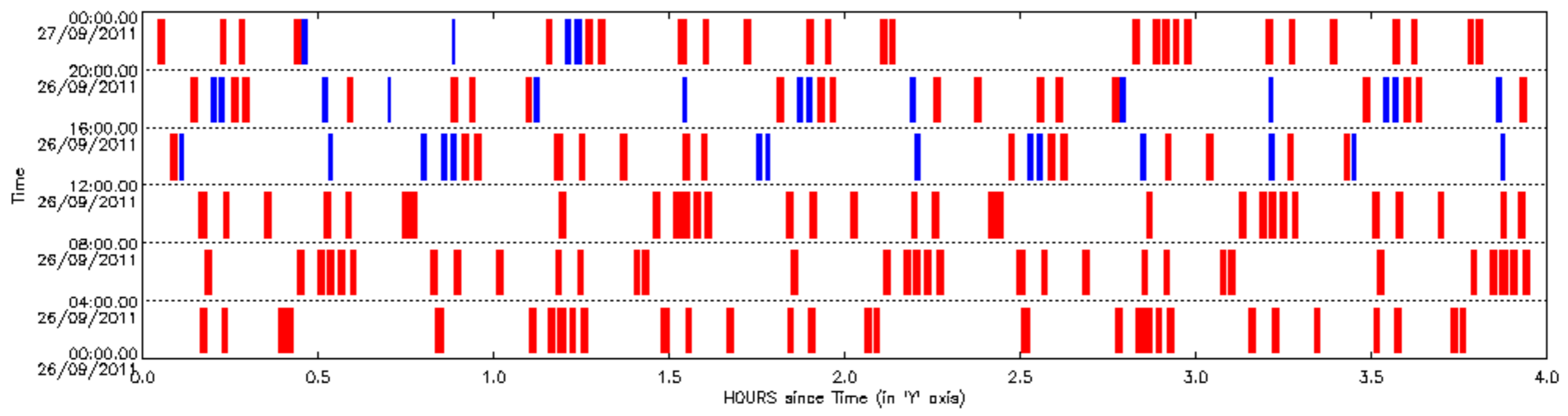
Lower curve: STD of SATU X axis

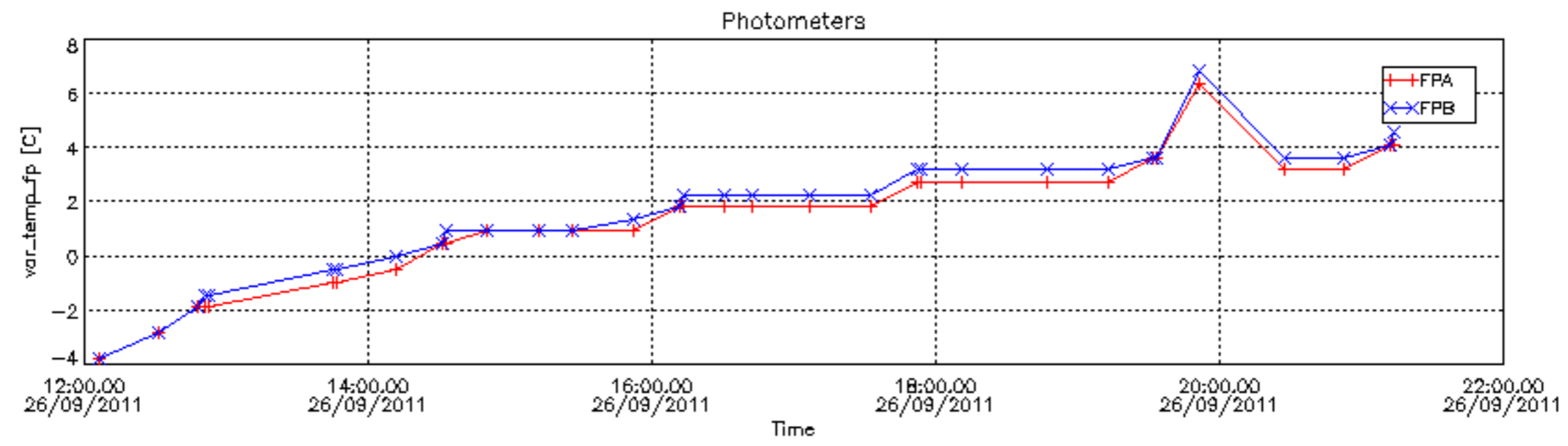
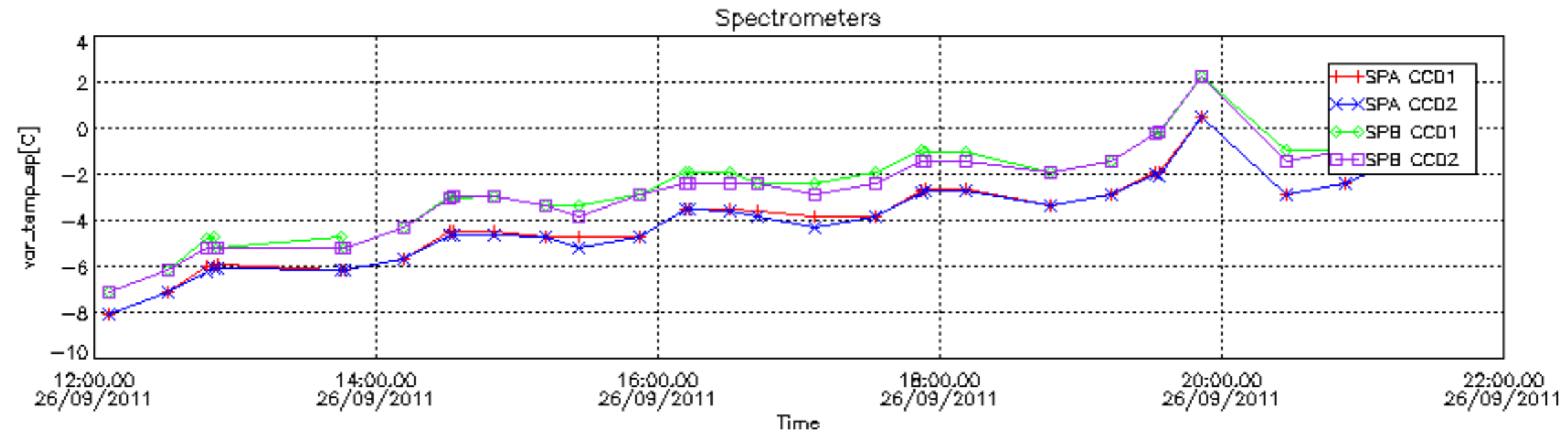


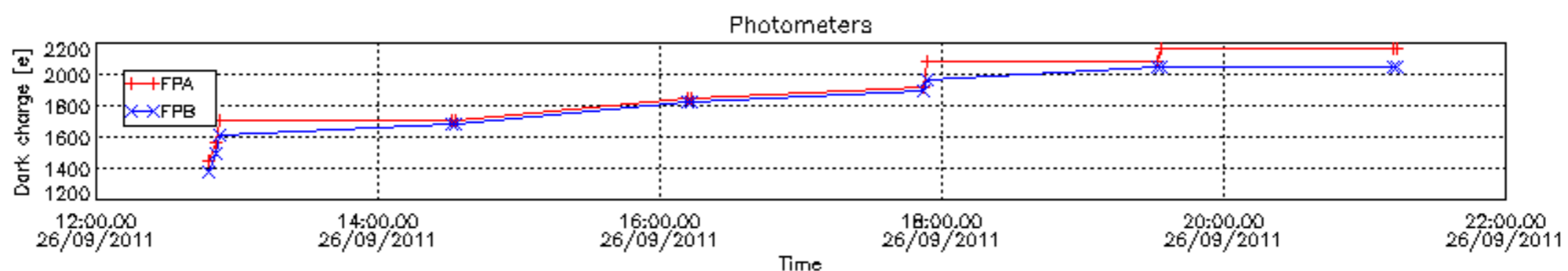
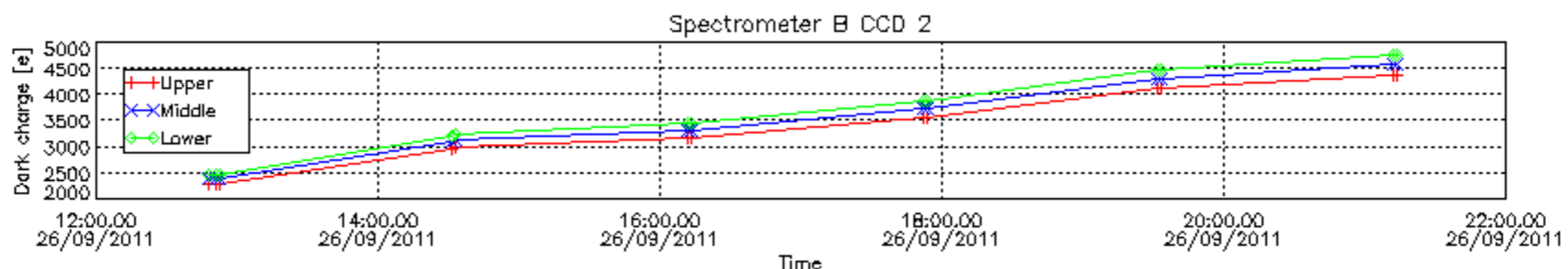
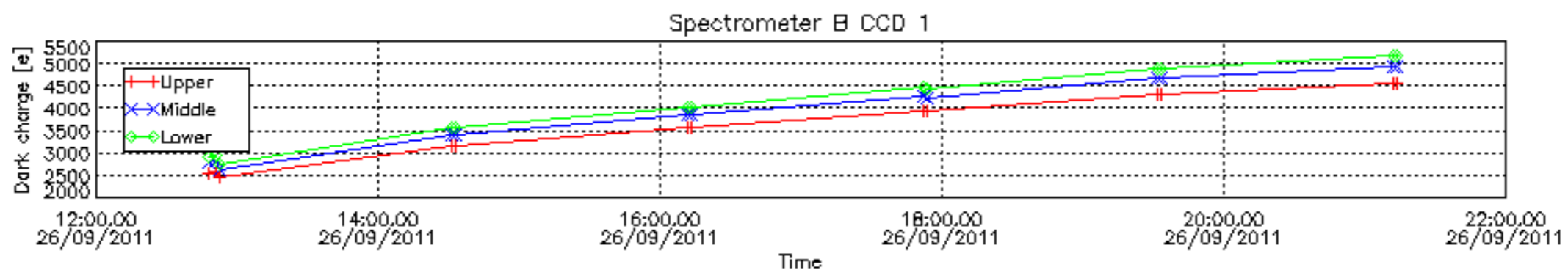
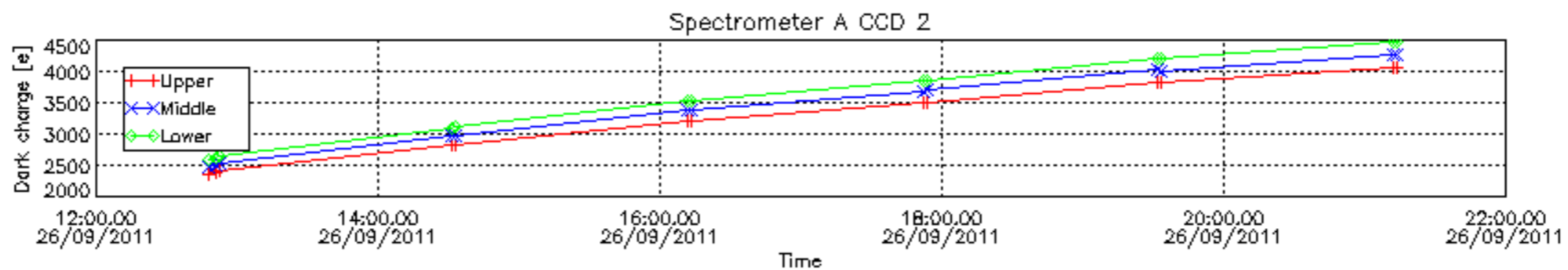
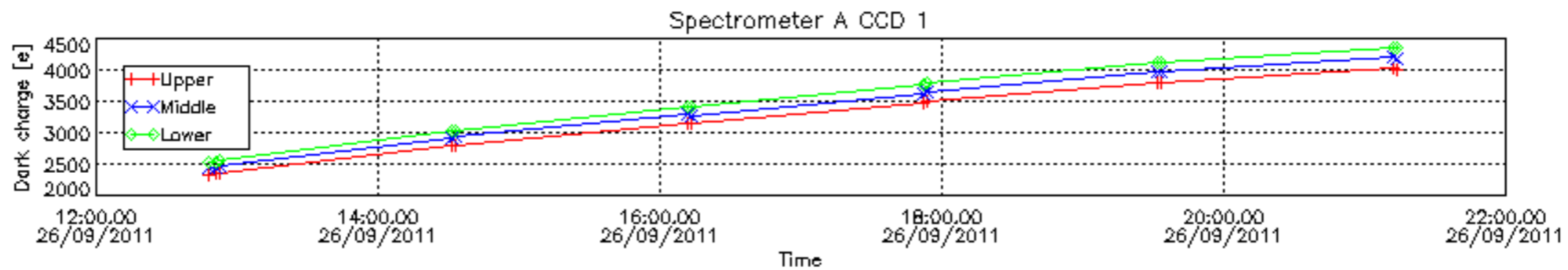
8. Auxiliary Data Files used for the production reported in section 2.4

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

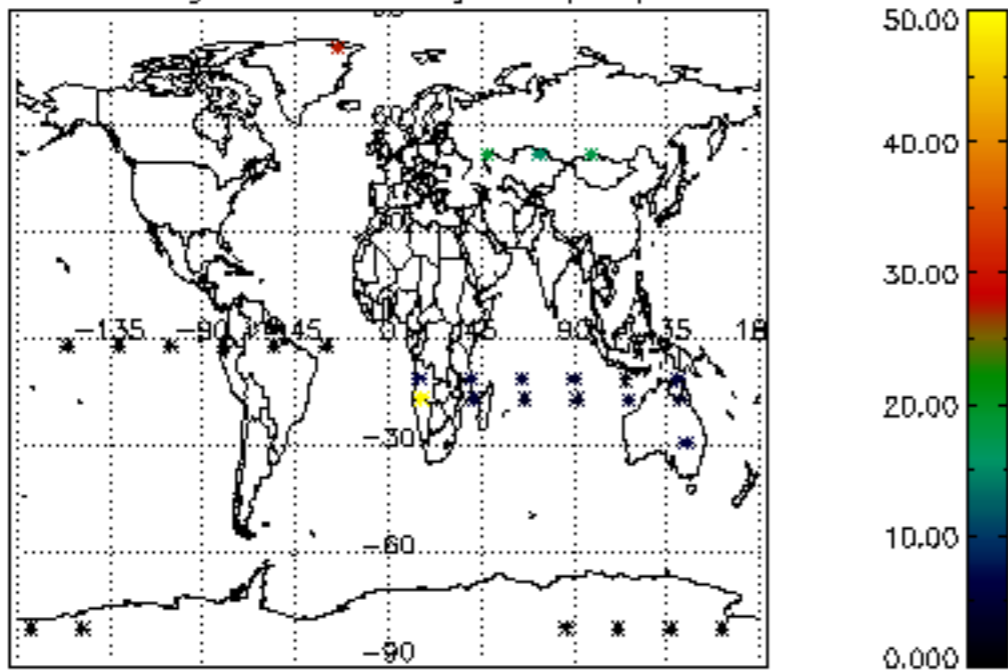
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-SEP-2011 12:06:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110923_090428_20110920_000000_20500101_000000	1	26-SEP-2011 12:06:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	26-SEP-2011 12:06:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-SEP-2011 12:06:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	26-SEP-2011 12:06:12
ECMWF_FILE	AUX_ECF_AXNECM20110926_063246_20110926_090000_20110926_210000	1	26-SEP-2011 12:06:12
ECMWF_FILE	AUX_ECF_AXNECM20110926_063246_20110926_150000_20110927_030000	12	26-SEP-2011 15:12:28
ECMWF_FILE	AUX_ECA_AXNECM20110926_175246_20110926_090000_20110926_210000	24	26-SEP-2011 18:47:06
ECMWF_FILE	AUX_ECF_AXNECM20110926_063247_20110926_210000_20110927_090000	31	26-SEP-2011 21:12:18
OPTIONAL_ECMWF_FILE	MISSING	1	26-SEP-2011 12:06:12
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110926_103246_20110925_183317_20111005_204701	1	26-SEP-2011 12:06:12



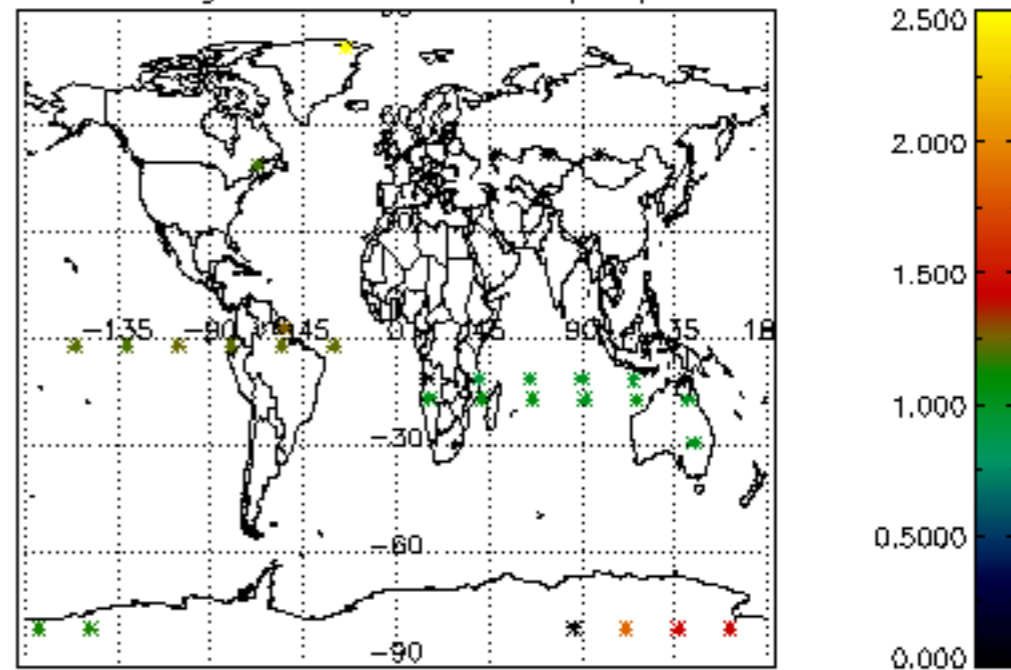




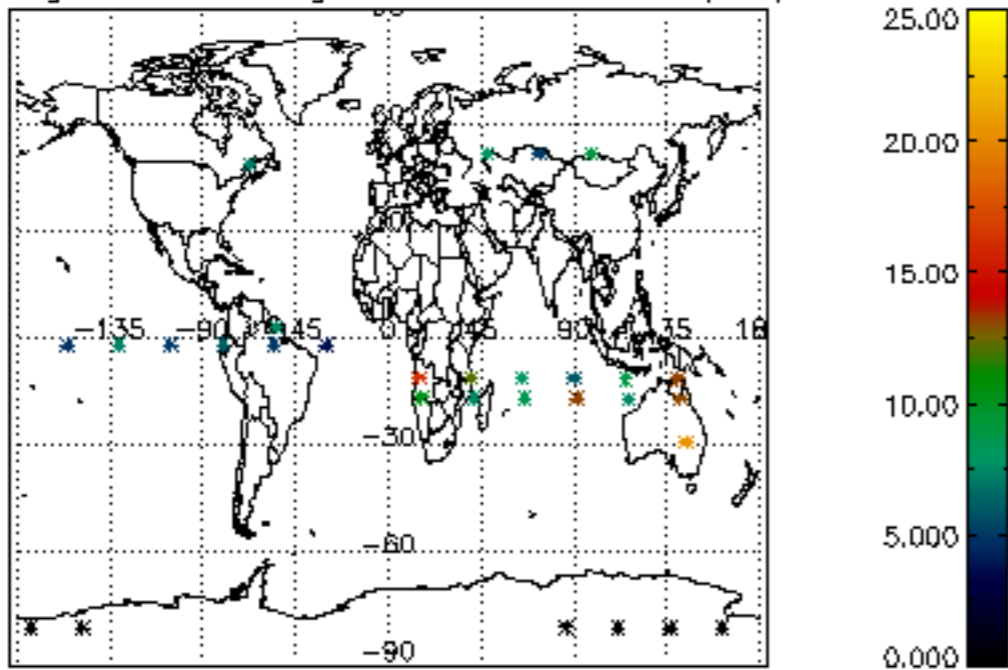
Percentage of cosmic ray hits per profile



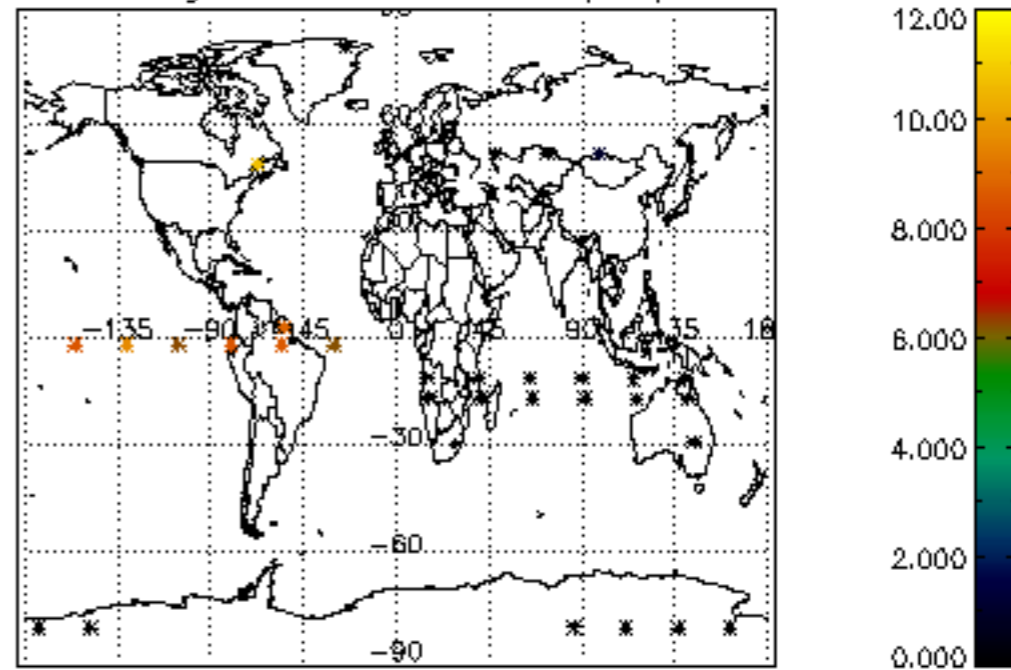
Percentage of datation errors per profile



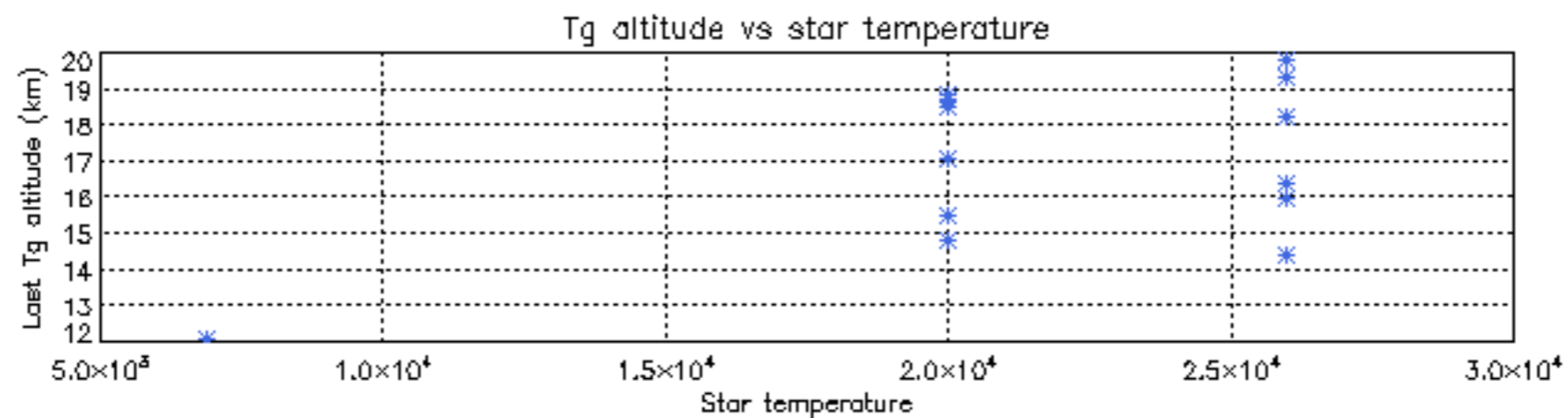
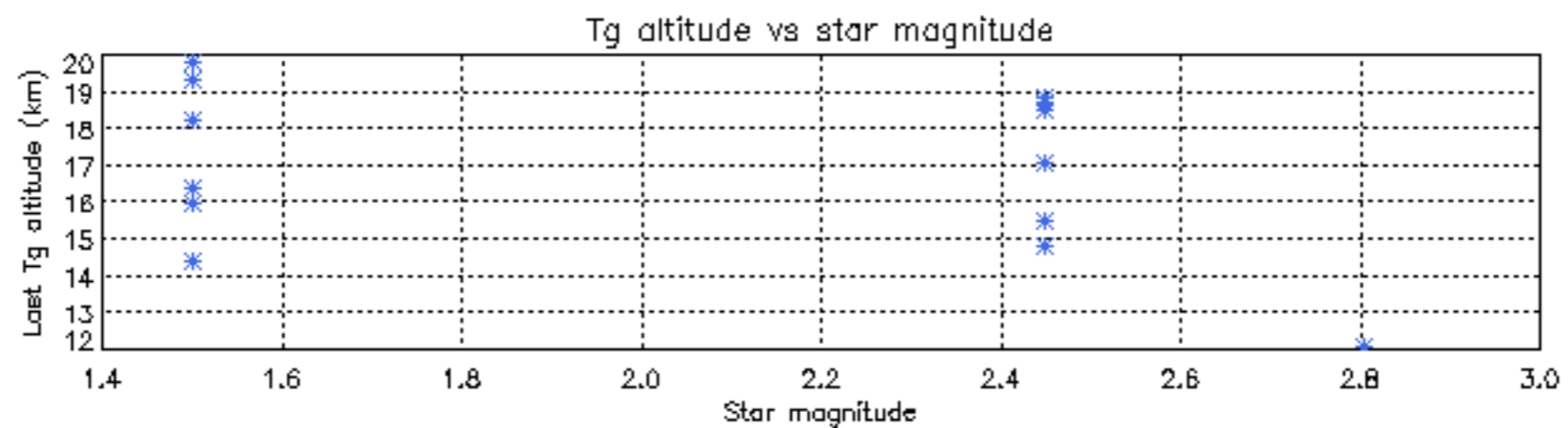
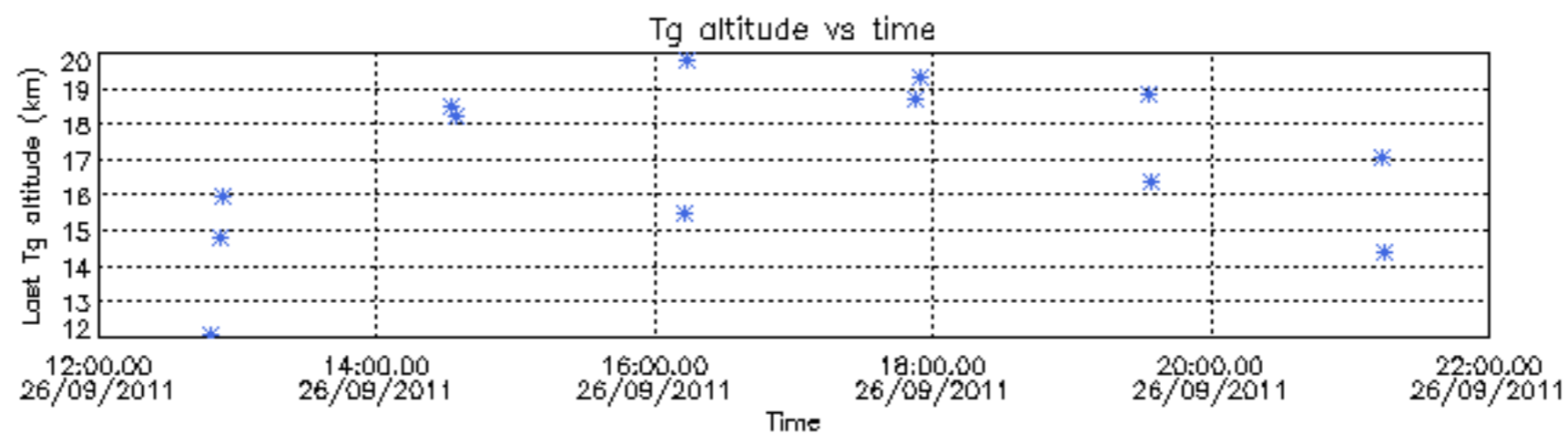
Percentage of star falling outside central band per profile



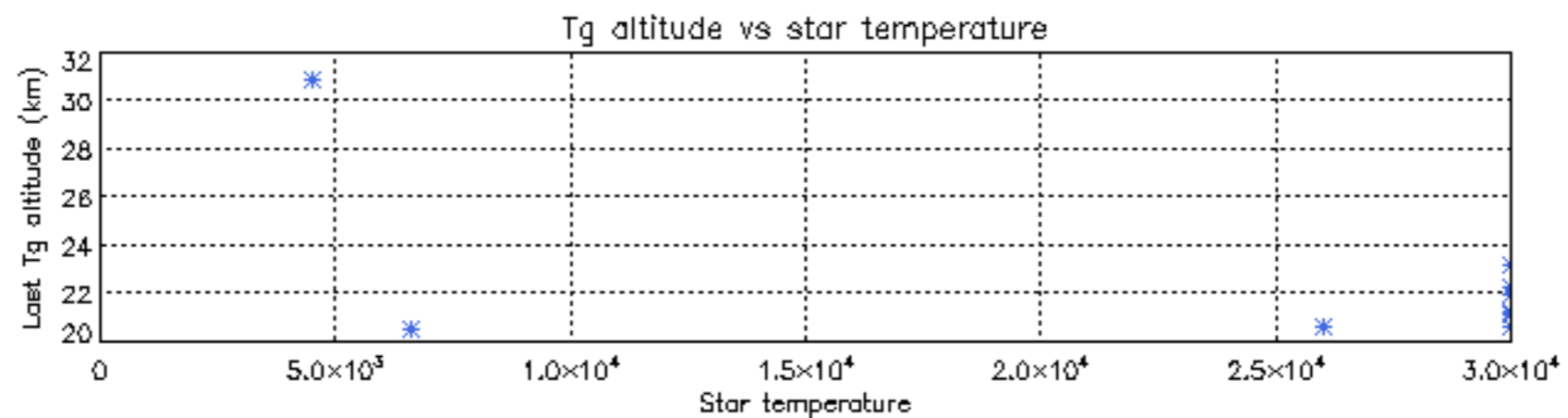
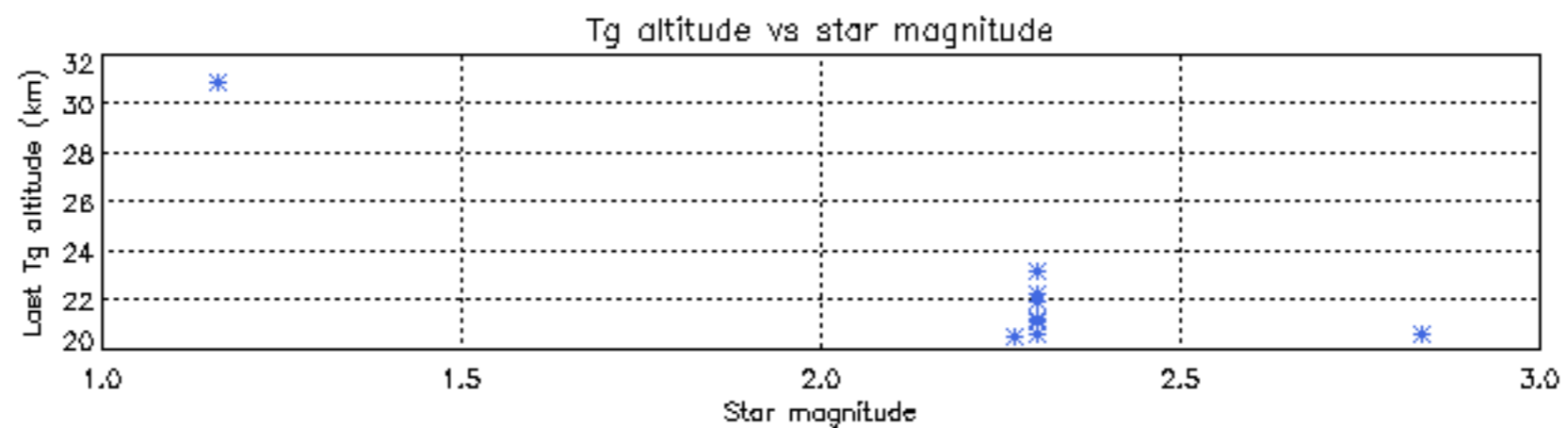
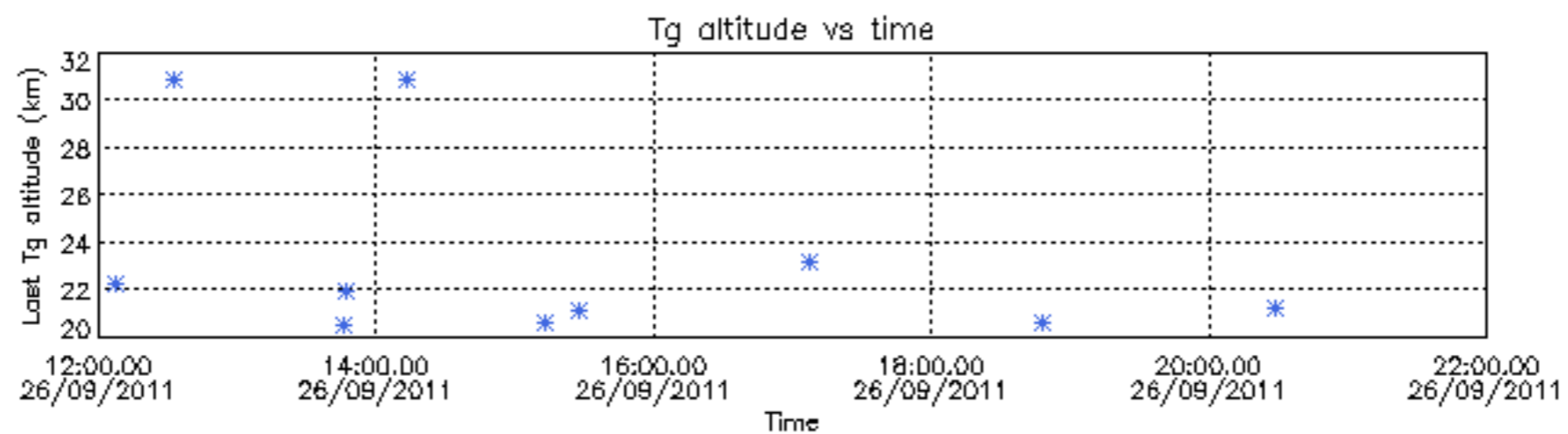
Percentage of saturation errors per profile

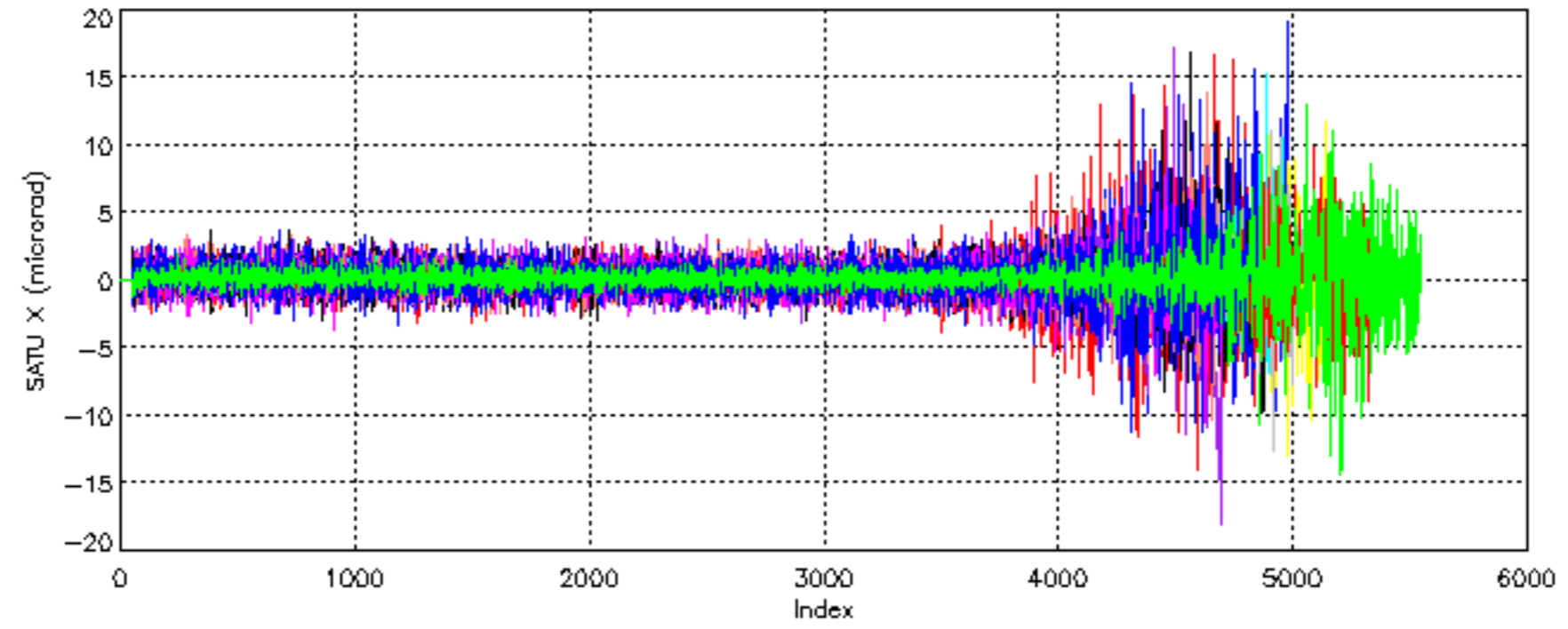


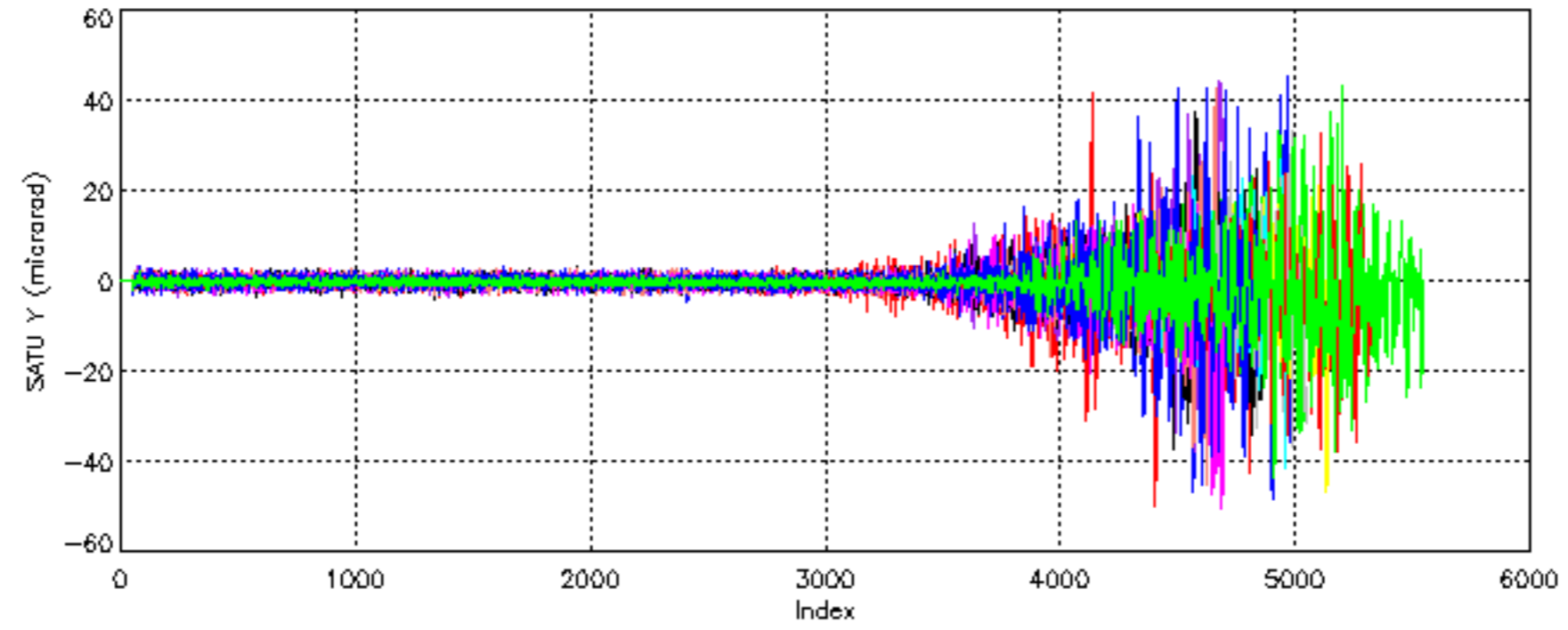
Tangent altitude at which the star is lost

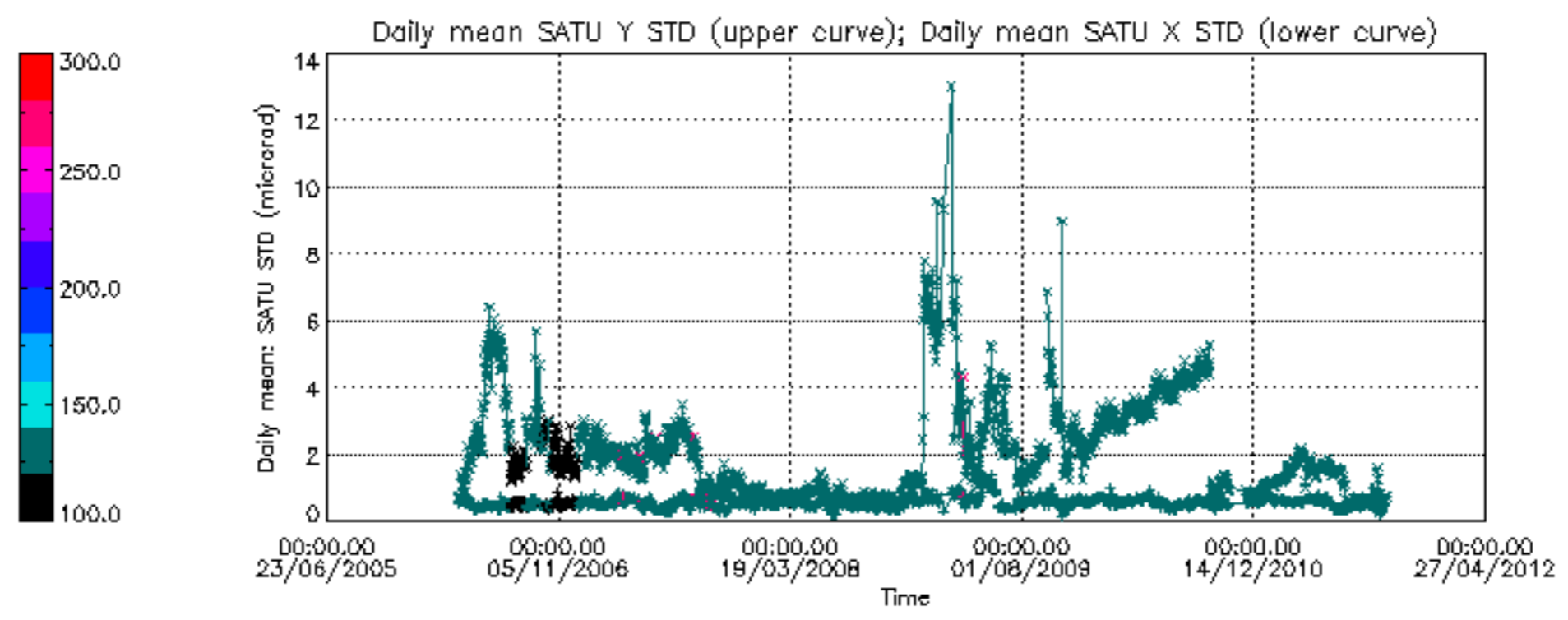


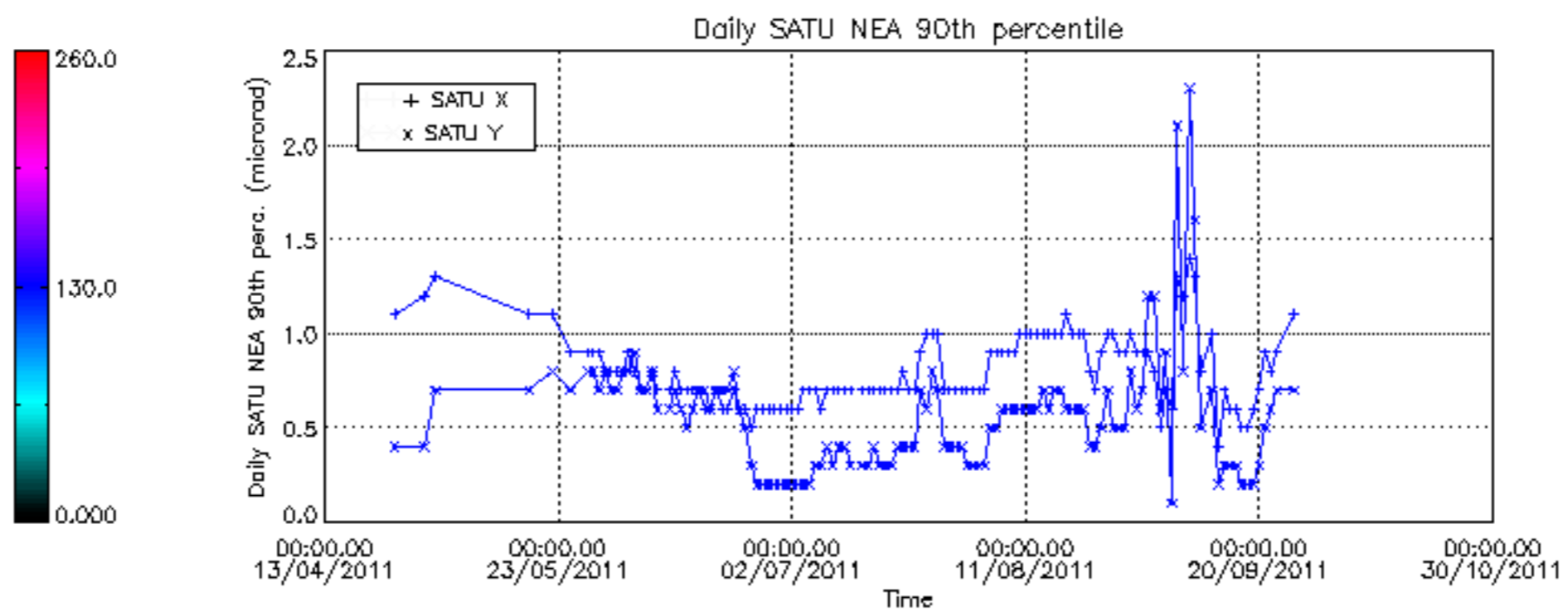
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110901_010959_000000513106_00117_49700_6411.N1
1; -1240.4; 01-SEP-2011 01:09:59; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;49700

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110901_014641_000071533106_00118_49701_6412.N1
1; 961.5; 01-SEP-2011 01:46:41; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49701
2; 2062.2; 01-SEP-2011 02:05:02; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;49701
3; 4495.1; 01-SEP-2011 02:45:35; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;49701
4; 6976.1; 01-SEP-2011 03:26:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49702
5; 8076.1; 01-SEP-2011 03:45:16; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;49702

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110901_201520_000000463106_00129_49712_6413.N1
1; 1326.6; 01-SEP-2011 20:15:20; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;49712

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110901_212239_000025713106_00129_49712_6414.N1
1; -648.5; 01-SEP-2011 21:22:39; Dark ; 53.0; 1; 9Alp CMA ; -1.44; 11000;occ; 106; 0;49712
2; -569.5; 01-SEP-2011 21:23:58; Dark ; 46.0; 47; 2Bet CMA ; 1.98; 28000;occ; 92; 0;49712
3; 968.4; 01-SEP-2011 21:49:36; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;49713
4; 1326.8; 01-SEP-2011 21:55:34; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;49713
5; 1883.3; 01-SEP-2011 22:04:51; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;49713

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110901_230413_000059653106_00130_49713_6415.N1
1; -568.8; 01-SEP-2011 23:04:13; Dark ; 49.0; 47; 2Bet CMA ; 1.98; 28000;occ; 98; 0;49713
2; 2061.8; 01-SEP-2011 23:48:03; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;49714
3; 5366.7; 02-SEP-2011 00:43:08; Dark ; 30.0; 1; 9Alp CMA ; -1.44; 11000;occ; 60; 0;49714

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110901_132227_000004043106_00125_49708_5210.N1
1; 610.0; 01-SEP-2011 13:22:27; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;49708
2; 965.6; 01-SEP-2011 13:28:23; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;49708

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110901_150838_000000463106_00126_49709_5211.N1
1; 966.1; 01-SEP-2011 15:08:38; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49709

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110901_151437_000057023106_00126_49709_5212.N1
1; 1325.7; 01-SEP-2011 15:14:37; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;49709
2; 1883.3; 01-SEP-2011 15:23:55; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;49709
3; 2062.0; 01-SEP-2011 15:26:53; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49709
4; 6980.6; 01-SEP-2011 16:48:52; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49710

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110901_170409_000051483106_00127_49710_5213.N1
1; 1883.5; 01-SEP-2011 17:04:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49710
2; 2062.1; 01-SEP-2011 17:07:08; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;49710
3; 6981.3; 01-SEP-2011 18:29:07; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;49711

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110901_182938_000011013106_00128_49711_5214.N1
1; 998.3; 01-SEP-2011 18:29:38; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 62;49711
2; 1883.3; 01-SEP-2011 18:44:23; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;49711
3; 2062.0; 01-SEP-2011 18:47:22; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;49711

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110902_004308_000027473106_00131_49714_6416.N1
1; -647.2; 02-SEP-2011 00:43:08; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;49714
2; -567.9; 02-SEP-2011 00:44:27; Dark ; 48.5; 47; 2Bet CMA ; 1.98; 28000;occ; 97; 0;49714
3; 969.5; 02-SEP-2011 01:10:05; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49715
4; 2061.8; 02-SEP-2011 01:28:17; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;49715

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110902_022323_000020203106_00132_49715_6417.N1
1; -646.6; 02-SEP-2011 02:23:23; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;49715
2; -566.9; 02-SEP-2011 02:24:42; Dark ; 52.5; 47; 2Bet CMA ; 1.98; 28000;occ; 105; 0;49715
3; 970.1; 02-SEP-2011 02:50:19; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49716
4; 1327.6; 02-SEP-2011 02:56:17; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;49716

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110902_040337_000031613106_00133_49716_6419.N1
1; -645.9; 02-SEP-2011 04:03:37; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;49716
2; 970.5; 02-SEP-2011 04:30:34; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;49717
3; 1327.9; 02-SEP-2011 04:36:31; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;49717
4; 1883.2; 02-SEP-2011 04:45:46; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;49717
5; 2061.9; 02-SEP-2011 04:48:45; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;49717
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3; 3099.9; 02-SEP-2011 23:28:37; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49728
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3; -644.7; 02-SEP-2011 07:24:07; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;49718
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3; 5370.0; 02-SEP-2011 09:04:21; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;49719
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3; 4902.7; 02-SEP-2011 12:17:02; Dark ; 47.5; 8; 10Alp CMI ; 0.40; 6500;occ; 95; 0;49721
4; 5451.6; 02-SEP-2011 12:26:11; Dark ; 51.0; 47; 2Bet CMA ; 1.98; 28000;occ; 102; 0;49721
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3; 5373.4; 02-SEP-2011 17:25:34; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;49724
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3; 3101.7; 02-SEP-2011 18:27:57; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;49725
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5; 4904.1; 02-SEP-2011 18:57:59; Dark ; 47.5; 8; 10Alp CMI ; 0.40; 6500;occ; 95; 0;49725
6; 5374.0; 02-SEP-2011 19:05:49; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;49725
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3; 3101.1; 02-SEP-2011 20:08:10; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;49726
4; 4784.4; 02-SEP-2011 20:36:13; Dark ; 54.5; 44; 24Gam Gem ; 1.93; 11000;occ; 109; 0;49726
5; 4904.4; 02-SEP-2011 20:38:13; Dark ; 45.0; 8; 10Alp CMI ; 0.40; 6500;occ; 90; 0;49726
6; 5374.7; 02-SEP-2011 20:46:04; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;49726
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3; 1330.9; 03-SEP-2011 00:39:22; Dark ; 25.0; 18; 24Alp PsA ; 1.17; 9700;occ; 50; 0;49729
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3; 1331.1; 03-SEP-2011 02:19:36; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;49730

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3; 984.2; 03-SEP-2011 22:16:37; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49742
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5; 1883.4; 03-SEP-2011 22:31:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49742
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8; 2434.9; 09-SEP-2011 22:20:48; Bright; 38.5; 164; 44Eta Peg ; 2.95; 5400;occ; 77; 0;49828
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8; 5723.0; 09-SEP-2011 09:53:44; Dark ; 46.0; 177; 1Zet CMA ; 3.02; 26000;occ; 92; 0;49820
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7; 5723.9; 09-SEP-2011 11:33:59; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;49821
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4; -242.7; 12-SEP-2011 21:26:11; Dark ; 46.0; 177; 1Zet CMA ; 3.02; 26000;occ; 92; 0;49870
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4; 1058.8; 14-SEP-2011 23:54:52; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;49901
5; 2166.1; 15-SEP-2011 00:13:19; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49901
6; 2397.4; 15-SEP-2011 00:17:10; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49901
7; 3009.9; 15-SEP-2011 00:27:23; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;49901
8; 3117.1; 15-SEP-2011 00:29:10; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49901
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2; 2166.8; 14-SEP-2011 19:12:38; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49898
3; 2398.1; 14-SEP-2011 19:16:29; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;49898
4; 3011.5; 14-SEP-2011 19:26:43; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49898
5; 3118.7; 14-SEP-2011 19:28:30; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49898
6; 4458.4; 14-SEP-2011 19:50:49; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;49898
7; 4977.2; 14-SEP-2011 19:59:28; Dark ; 53.5; 8; 10Alp CMI ; 0.40; 6500;occ; 107; 0;49898
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4; 716.6; 15-SEP-2011 01:29:23; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;49902
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6; 1516.0; 15-SEP-2011 01:42:43; Dark ; 26.0; 52; 16Bet Cet ; 2.04; 4500;occ; 52; 0;49902
7; 2165.9; 15-SEP-2011 01:53:33; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49902
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6; 717.7; 15-SEP-2011 04:49:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;49904
7; 1059.9; 15-SEP-2011 04:55:35; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;49904
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6; 718.2; 15-SEP-2011 06:30:07; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;49905
7; 1060.3; 15-SEP-2011 06:35:49; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49905
8; 1516.3; 15-SEP-2011 06:43:25; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;49905
9; 2165.3; 15-SEP-2011 06:54:14; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49905
10; 2396.5; 15-SEP-2011 06:58:05; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49905
11; 2517.6; 15-SEP-2011 07:00:06; Bright; 33.0; 58; 21Alp And ; 2.07; 11000;occ; 66; 0;49905
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4; 2394.4; 15-SEP-2011 20:19:55; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49913
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6; 3004.6; 15-SEP-2011 20:30:05; Bright; 60.0; 74; 11Bet Cas ; 2.27; 6600;occ; 120; 0;49913
7; 3110.0; 15-SEP-2011 20:31:51; Bright; 63.0; 76; 27Gam Cas ; 2.30; 30000;occ; 126; 0;49913
8; 4460.3; 15-SEP-2011 20:54:21; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;49913
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9; 2511.0; 15-SEP-2011 23:42:19; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;49915
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7; 3102.3; 16-SEP-2011 21:35:12; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49928
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3; -457.1; 17-SEP-2011 03:16:49; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;49931
4; -331.2; 17-SEP-2011 03:18:55; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;49931
5; -100.2; 17-SEP-2011 03:22:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49931
6; 731.5; 17-SEP-2011 03:36:37; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;49932
7; 1071.1; 17-SEP-2011 03:42:17; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49932
8; 1520.5; 17-SEP-2011 03:49:46; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;49932
9; 2161.6; 17-SEP-2011 04:00:27; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49932
10; 2390.3; 17-SEP-2011 04:04:16; Bright; 51.0; 93; 53Bet Peg ; 2.52; 3100;occ; 102; 0;49932
11; 2500.7; 17-SEP-2011 04:06:06; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;49932
12; 2996.7; 17-SEP-2011 04:14:22; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49932
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3; -455.9; 17-SEP-2011 04:57:04; Dark ; 73.5; 1; 9Alp CMA ; -1.44; 11000;occ; 147; 0;49932
4; -330.3; 17-SEP-2011 04:59:09; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;49932
5; -99.2; 17-SEP-2011 05:03:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49932
6; 1071.5; 17-SEP-2011 05:22:31; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49933
7; 1520.6; 17-SEP-2011 05:30:00; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;49933
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9; 2390.1; 17-SEP-2011 05:44:30; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49933
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11; 2996.4; 17-SEP-2011 05:54:36; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49933
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2; 1522.0; 17-SEP-2011 20:32:08; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;49942
3; 2160.3; 17-SEP-2011 20:42:46; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49942
4; 2388.3; 17-SEP-2011 20:46:34; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49942
5; 2494.5; 17-SEP-2011 20:48:20; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;49942
6; 2992.5; 17-SEP-2011 20:56:38; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49942
7; 3094.7; 17-SEP-2011 20:58:20; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;49942

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3; -89.5; 17-SEP-2011 21:45:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49942
4; 1075.3; 17-SEP-2011 22:04:55; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49943
5; 1522.1; 17-SEP-2011 22:12:22; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;49943
6; 2160.1; 17-SEP-2011 22:23:00; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49943
7; 2388.0; 17-SEP-2011 22:26:48; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49943
8; 2494.0; 17-SEP-2011 22:28:33; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;49943
9; 2992.1; 17-SEP-2011 22:36:52; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49943
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5; 1522.3; 17-SEP-2011 23:52:36; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;49944
6; 2159.8; 18-SEP-2011 00:03:13; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49944
7; 2387.9; 18-SEP-2011 00:07:01; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;49944
8; 2493.4; 18-SEP-2011 00:08:47; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;49944
9; 2991.8; 18-SEP-2011 00:17:05; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49944
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5; -98.3; 17-SEP-2011 06:43:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49933
6; 732.5; 17-SEP-2011 06:57:06; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;49934
7; 1071.9; 17-SEP-2011 07:02:46; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49934
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4; 2996.1; 17-SEP-2011 07:34:50; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49934
5; 3099.1; 17-SEP-2011 07:36:33; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49934
6; 4463.2; 17-SEP-2011 07:59:17; Bright; 65.0; 24; 66Alp Gem ; 1.58; 10200;occ; 130; 0;49934
7; 4997.0; 17-SEP-2011 08:08:11; Dark ; 66.0; 8; 10Alp Cmi ; 0.40; 6500;occ; 132; 0;49934
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10; 5916.7; 17-SEP-2011 08:23:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49934
11; 7086.3; 17-SEP-2011 08:43:00; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49935
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8; 5561.5; 17-SEP-2011 09:57:49; Dark ; 65.5; 1; 9Alp Cma ; -1.44; 11000;occ; 131; 0;49935
9; 5686.4; 17-SEP-2011 09:59:54; Dark ; 52.0; 23; 21Eps Cma ; 1.50; 26000;occ; 104; 0;49935
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11; 6747.3; 17-SEP-2011 10:17:35; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;49936
12; 7086.6; 17-SEP-2011 10:23:14; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;49936
13; 7535.0; 17-SEP-2011 10:30:43; Dark ; 58.0; 52; 16Bet Cet ; 2.04; 4500;occ; 116; 0;49936
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3; 2498.2; 17-SEP-2011 10:47:00; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;49936

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9; 5687.2; 17-SEP-2011 11:40:09; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;49936
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11; 6747.8; 17-SEP-2011 11:57:50; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49937
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4; 2994.7; 17-SEP-2011 12:35:30; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49937
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5; 2994.4; 17-SEP-2011 14:15:44; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49938
6; 3096.8; 17-SEP-2011 14:17:26; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49938
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6; 2993.0; 17-SEP-2011 19:16:25; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49941
7; 3095.3; 17-SEP-2011 19:18:07; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49941
8; 4464.0; 17-SEP-2011 19:40:56; Bright; 65.0; 24; 66Alp Gem ; 1.58; 10200;occ; 130; 0;49941
9; 5001.1; 17-SEP-2011 19:49:53; Dark ; 56.0; 8; 10Alp CMI ; 0.40; 6500;occ; 112; 0;49941
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11; 5691.8; 17-SEP-2011 20:01:23; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;49941
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4; 1076.0; 18-SEP-2011 01:25:23; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49945
5; 1522.2; 18-SEP-2011 01:32:49; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49945
6; 2159.8; 18-SEP-2011 01:43:27; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49945
7; 2387.6; 18-SEP-2011 01:47:15; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49945
8; 2492.7; 18-SEP-2011 01:49:00; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;49945
9; 2991.4; 18-SEP-2011 01:57:19; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49945
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10; 2991.0; 18-SEP-2011 03:37:32; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;49946
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6; 1077.3; 18-SEP-2011 06:26:07; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49948
7; 1522.8; 18-SEP-2011 06:33:32; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49948
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9; 2387.2; 18-SEP-2011 06:47:56; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49948
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11; 2990.1; 18-SEP-2011 06:57:59; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49948
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2; 1524.0; 18-SEP-2011 19:55:25; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;49956
3; 2158.6; 18-SEP-2011 20:06:00; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49956
4; 2385.6; 18-SEP-2011 20:09:47; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49956
5; 2486.6; 18-SEP-2011 20:11:28; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;49956
6; 2986.9; 18-SEP-2011 20:19:48; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49956
7; 3087.3; 18-SEP-2011 20:21:28; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49956
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5; 743.3; 18-SEP-2011 21:22:38; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;49957
6; 1080.5; 18-SEP-2011 21:28:16; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49957
7; 1524.0; 18-SEP-2011 21:35:39; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;49957
8; 2158.5; 18-SEP-2011 21:46:13; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49957
9; 2385.4; 18-SEP-2011 21:50:00; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49957
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11; 2986.6; 18-SEP-2011 22:00:02; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;49957
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6; 1077.7; 18-SEP-2011 08:06:21; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49949
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5; 3091.0; 18-SEP-2011 08:39:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49949
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7; 5005.7; 18-SEP-2011 09:11:49; Dark ; 65.0; 8; 10Alp CMI ; 0.40; 6500;occ; 130; 0;49949
8; 5577.9; 18-SEP-2011 09:21:21; Dark ; 64.5; 1; 9Alp CMA ; -1.44; 11000;occ; 129; 0;49949
9; 5698.8; 18-SEP-2011 09:23:22; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;49949
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11; 7092.0; 18-SEP-2011 09:46:35; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49950
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9; 5699.7; 18-SEP-2011 11:03:37; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;49950
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3; 2488.7; 18-SEP-2011 13:30:34; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;49952
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5; 3089.4; 18-SEP-2011 13:40:34; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49952
6; 4465.4; 18-SEP-2011 14:03:30; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49952
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8; 5008.9; 18-SEP-2011 17:33:02; Dark ; 60.0; 8; 10Alp CMI ; 0.40; 6500;occ; 120; 0;49954
9; 5584.1; 18-SEP-2011 17:42:37; Dark ; 73.5; 1; 9Alp CMA ; -1.44; 11000;occ; 147; 0;49954
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7; 2980.8; 19-SEP-2011 23:03:25; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49972
8; 3079.2; 19-SEP-2011 23:05:03; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49972
9; 4468.0; 19-SEP-2011 23:28:12; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49972
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6; 1528.5; 20-SEP-2011 23:42:42; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;49987
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11; 4469.9; 21-SEP-2011 00:31:44; Bright; 47.0; 24; 66Alp Gem ; 1.58; 10200;occ; 94; 0;49987
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4; 2977.0; 20-SEP-2011 15:45:41; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49982
5; 3074.4; 20-SEP-2011 15:47:18; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;49982
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12; 2974.0; 21-SEP-2011 05:07:29; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49990
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1; -334.9; 21-SEP-2011 22:34:54; Dark ; 56.5; 37; 25Del CMA ; 1.83; 5900;occ; 113; 0;50000
2; -224.0; 21-SEP-2011 22:36:45; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;50000
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1; 1095.8; 21-SEP-2011 21:18:31; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;50000
2; 1530.2; 21-SEP-2011 21:25:45; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;50000
3; 2155.1; 21-SEP-2011 21:36:10; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;50000
4; 2379.0; 21-SEP-2011 21:39:54; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;50000
5; 2463.9; 21-SEP-2011 21:41:19; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;50000
6; 2970.4; 21-SEP-2011 21:49:46; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;50000
7; 3065.4; 21-SEP-2011 21:51:21; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50000
8; 4471.6; 21-SEP-2011 22:14:47; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;50000
9; 5038.8; 21-SEP-2011 22:24:14; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;50000
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2; 1096.4; 22-SEP-2011 00:38:59; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;50002
3; 1530.6; 22-SEP-2011 00:46:14; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;50002
4; 2154.8; 22-SEP-2011 00:56:38; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;50002
5; 2378.7; 22-SEP-2011 01:00:22; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;50002
6; 2462.9; 22-SEP-2011 01:01:46; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;50002
7; 2969.7; 22-SEP-2011 01:10:13; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50002
8; 3064.5; 22-SEP-2011 01:11:47; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50002
9; 4471.9; 22-SEP-2011 01:35:15; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;50002
10; 5040.2; 22-SEP-2011 01:44:43; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;50002
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2; -222.5; 22-SEP-2011 01:57:14; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;50002
3; 1.5; 22-SEP-2011 02:00:58; Dark ; 49.0; 161; Tau Pup ; 2.93; 4500;occ; 98; 0;50002
4; 132.9; 22-SEP-2011 02:03:10; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;50003
5; 1096.8; 22-SEP-2011 02:19:14; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;50003
6; 1530.8; 22-SEP-2011 02:26:28; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;50003
7; 2378.6; 22-SEP-2011 02:40:35; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;50003
8; 2462.5; 22-SEP-2011 02:41:59; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;50003
9; 2969.4; 22-SEP-2011 02:50:26; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;50003
10; 3063.9; 22-SEP-2011 02:52:01; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;50003
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2; -973.1; 22-SEP-2011 03:24:58; Dark ; 70.5; 8; 10Alp CMI ; 0.40; 6500;occ; 141; 0;50003
3; -331.9; 22-SEP-2011 03:35:39; Dark ; 55.5; 37; 25Del CMA ; 1.83; 5900;occ; 111; 0;50003
4; -221.6; 22-SEP-2011 03:37:29; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;50003
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1; 91.9; 22-SEP-2011 22:05:16; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;50015
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1; 1532.5; 23-SEP-2011 00:09:31; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;50016
2; 2456.8; 23-SEP-2011 00:24:55; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;50016
3; 3057.7; 23-SEP-2011 00:34:56; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;50016
4; 4473.8; 23-SEP-2011 00:58:32; Bright; 50.0; 24; 66Alp Gem ; 1.58; 10200;occ; 100; 0;50016
5; 5050.3; 23-SEP-2011 01:08:09; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;50016
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1; -249.1; 23-SEP-2011 01:20:03; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;50016
2; 10.8; 23-SEP-2011 01:24:23; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;50017
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1; 911.7; 26-SEP-2011 19:51:58; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 80;50071
2; 3033.2; 26-SEP-2011 20:27:20; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50071
3; 4565.0; 26-SEP-2011 20:52:52; Bright; 26.5; 17; 78Bet Gem ; 1.16; 4500;occ; 53; 0;50071
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1; -282.9; 26-SEP-2011 21:12:18; Dark ; 48.5; 88; 31Eta CMA ; 2.45; 20000;occ; 97; 0;50071
2; -188.2; 26-SEP-2011 21:13:52; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;50071
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2;-1450.0; 26-SEP-2011 12:31:41; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;50066
3; -491.6; 26-SEP-2011 12:47:39; Dark ; 49.0; 132; 15Rho Pup ; 2.80; 6900;occ; 98; 0;50066
4; -287.6; 26-SEP-2011 12:51:03; Dark ; 50.0; 88; 31Eta CMA ; 2.45; 20000;occ; 100; 0;50066
5; -194.0; 26-SEP-2011 12:52:37; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;50066
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2; 3035.1; 26-SEP-2011 13:46:26; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50067
3; 4564.2; 26-SEP-2011 14:11:55; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;50067
4; 5727.2; 26-SEP-2011 14:31:18; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50067
5; 5821.1; 26-SEP-2011 14:32:52; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;50067
6; 6883.3; 26-SEP-2011 14:50:34; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50068
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1; 2183.8; 26-SEP-2011 15:12:28; Bright; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;50068
2; 3034.7; 26-SEP-2011 15:26:39; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50068
3; 4564.4; 26-SEP-2011 15:52:09; Bright; 35.0; 17; 78Bet Gem ; 1.16; 4500;occ; 70; 0;50068
4; 5728.3; 26-SEP-2011 16:11:33; Dark ; 49.5; 88; 31Eta CMA ; 2.45; 20000;occ; 99; 0;50068
5; 5822.4; 26-SEP-2011 16:13:07; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;50068
6; 6884.2; 26-SEP-2011 16:30:49; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;50069
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2; 3034.1; 26-SEP-2011 17:06:53; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50069
3; 4564.8; 26-SEP-2011 17:32:23; Bright; 35.0; 17; 78Bet Gem ; 1.16; 4500;occ; 70; 0;50069
4; 5729.2; 26-SEP-2011 17:51:48; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50069
5; 5823.5; 26-SEP-2011 17:53:22; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;50069
6; 6885.0; 26-SEP-2011 18:11:04; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50070
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1;-2980.4; 26-SEP-2011 18:47:06; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50070
2;-1449.2; 26-SEP-2011 19:12:37; Bright; 27.0; 17; 78Bet Gem ; 1.16; 4500;occ; 54; 0;50070
3; -283.9; 26-SEP-2011 19:32:03; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50070
4; -189.4; 26-SEP-2011 19:33:37; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;50070
5; 871.7; 26-SEP-2011 19:51:18; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50071
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2; 3026.9; 27-SEP-2011 21:30:43; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50086
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1; -268.0; 27-SEP-2011 22:16:02; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50086
2; -170.7; 27-SEP-2011 22:17:39; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;50086
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1; 54.5; 27-SEP-2011 10:39:47; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;50080
2; 138.1; 27-SEP-2011 10:41:10; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;50080
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2; 2944.7; 27-SEP-2011 11:27:57; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50080
3; 3029.6; 27-SEP-2011 11:29:22; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50080
4; 5532.6; 27-SEP-2011 12:11:05; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;50080
5; 5739.9; 27-SEP-2011 12:14:32; Dark ; 50.0; 88; 31Eta CMA ; 2.45; 20000;occ; 100; 0;50080
6; 5836.1; 27-SEP-2011 12:16:08; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;50080
7; 5947.0; 27-SEP-2011 12:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50080
8; 6069.1; 27-SEP-2011 12:20:01; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;50081
9; 6152.7; 27-SEP-2011 12:21:25; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;50081
10; 6893.5; 27-SEP-2011 12:33:46; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50081
11; 7555.6; 27-SEP-2011 12:44:48; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;50081
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2; 2944.4; 27-SEP-2011 13:08:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;50081
3; 3029.2; 27-SEP-2011 13:09:35; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50081
4; 5533.4; 27-SEP-2011 13:51:20; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50081
5; 5740.9; 27-SEP-2011 13:54:47; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;50081
6; 5837.4; 27-SEP-2011 13:56:24; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;50081
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2; 2944.3; 27-SEP-2011 14:48:24; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;50082
3; 3028.8; 27-SEP-2011 14:49:49; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50082
4; 5534.2; 27-SEP-2011 15:31:34; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50082

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2; 3028.4; 27-SEP-2011 16:30:02; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50083
3; 5743.0; 27-SEP-2011 17:15:17; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;50083
4; 5839.9; 27-SEP-2011 17:16:54; Dark ; 65.5; 23; 21Eps CMA ; 1.50; 26000;occ; 131; 0;50083
5; 6895.9; 27-SEP-2011 17:34:30; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;50084
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2; 3027.9; 27-SEP-2011 18:10:16; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50084
3; 5743.9; 27-SEP-2011 18:55:32; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;50084
4; 6896.6; 27-SEP-2011 19:14:45; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;50085
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2; 3027.3; 27-SEP-2011 19:50:29; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50085
3; 5744.9; 27-SEP-2011 20:35:47; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50085
4; 5842.1; 27-SEP-2011 20:37:24; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;50085
5; 6897.5; 27-SEP-2011 20:55:00; Dark ; 23.5; 157; The1Eri ; 2.91; 9300;occ; 47; 0;50086
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2; 3025.4; 28-SEP-2011 04:11:37; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50090
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2; -165.8; 28-SEP-2011 04:58:40; Dark ; 54.5; 23; 21Eps CMA ; 1.50; 26000;occ; 109; 0;50090
3; 887.1; 28-SEP-2011 05:16:13; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50091
4; 3024.9; 28-SEP-2011 05:51:51; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;50091
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3; 3021.2; 28-SEP-2011 20:53:53; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50100
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2; -164.5; 28-SEP-2011 06:38:55; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;50091
3; 887.8; 28-SEP-2011 06:56:28; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;50092
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1; 2941.4; 28-SEP-2011 07:30:41; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50092
2; 3024.6; 28-SEP-2011 07:32:04; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;50092
3; 5751.8; 28-SEP-2011 08:17:32; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;50092
4; 5850.6; 28-SEP-2011 08:19:11; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;50092
5; 6902.7; 28-SEP-2011 08:36:43; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;50093
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1; -2989.8; 28-SEP-2011 09:12:18; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50093
2; -261.0; 28-SEP-2011 09:57:47; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50093
3; -162.1; 28-SEP-2011 09:59:26; Dark ; 61.0; 23; 21Eps CMA ; 1.50; 26000;occ; 122; 0;50093
4; 889.5; 28-SEP-2011 10:16:57; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50094
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2; 3023.7; 28-SEP-2011 10:52:31; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50094
3; 5754.0; 28-SEP-2011 11:38:02; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50094
4; 5853.1; 28-SEP-2011 11:39:41; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;50094
5; 6904.2; 28-SEP-2011 11:57:12; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50095
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2; -258.9; 28-SEP-2011 13:18:17; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50095
3; -159.6; 28-SEP-2011 13:19:56; Dark ; 54.5; 23; 21Eps CMA ; 1.50; 26000;occ; 109; 0;50095
4; 891.1; 28-SEP-2011 13:37:27; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50096
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2; -257.9; 28-SEP-2011 14:58:32; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;50096
3; -158.6; 28-SEP-2011 15:00:11; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;50096
4; 891.7; 28-SEP-2011 15:17:41; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;50097
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1; 1544.0; 28-SEP-2011 15:28:34; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;50097
2; 2176.3; 28-SEP-2011 15:39:06; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;50097
3; 2426.2; 28-SEP-2011 15:43:16; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;50097

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4; 3022.5; 28-SEP-2011 15:53:12; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;50097
5; 5757.1; 28-SEP-2011 16:38:47; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50097
6; 5856.7; 28-SEP-2011 16:40:26; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;50097
7; 6906.4; 28-SEP-2011 16:57:56; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50098
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2; -256.0; 28-SEP-2011 18:19:02; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50098
3; -156.2; 28-SEP-2011 18:20:41; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;50098
4; 68.2; 28-SEP-2011 18:24:26; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;50099
5; 152.0; 28-SEP-2011 18:25:50; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;50099
6; 893.2; 28-SEP-2011 18:38:11; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50099
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2; -254.9; 28-SEP-2011 19:59:17; Dark ; 52.0; 88; 31Eta CMA ; 2.45; 20000;occ; 104; 0;50099
3; -154.9; 28-SEP-2011 20:00:57; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;50099
4; 68.9; 28-SEP-2011 20:04:40; Dark ; 50.5; 161; Tau Pup ; 2.93; 4500;occ; 101; 0;50100
5; 152.6; 28-SEP-2011 20:06:04; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;50100
6; 894.0; 28-SEP-2011 20:18:26; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50100
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2; 155.6; 29-SEP-2011 02:47:03; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;50104
3; 897.0; 29-SEP-2011 02:59:24; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;50104
4; 2652.5; 29-SEP-2011 03:28:40; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;50104
5; 3019.6; 29-SEP-2011 03:34:47; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50104
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2; -147.5; 29-SEP-2011 06:02:28; Dark ; 60.0; 23; 21Eps CMA ; 1.50; 26000;occ; 120; 0;50105
3; 898.5; 29-SEP-2011 06:19:54; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50106
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2; 2643.5; 30-SEP-2011 01:11:32; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;50117
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2; 2642.2; 30-SEP-2011 04:31:59; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;50119
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2; 2641.6; 30-SEP-2011 06:12:12; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;50120
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1; -869.9; 30-SEP-2011 11:54:37; Dark ; 52.5; 8; 10Alp CMI ; 0.40; 6500;occ; 105; 0;50123

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