

GOMOS Daily Report 27-SEP-2011

Level 0 and Level 1 products

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

Item	Value
Time of report generation	30SEP2011 07:01:32
Data source version	GOMOS/6.01
Start time of products	27SEP2011 10:39:47
Stop time of products	27SEP2011 22:17:39
Store outputs in DB	Yes
Nb of level 1b prods	41
Nb of prods with errors	0

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

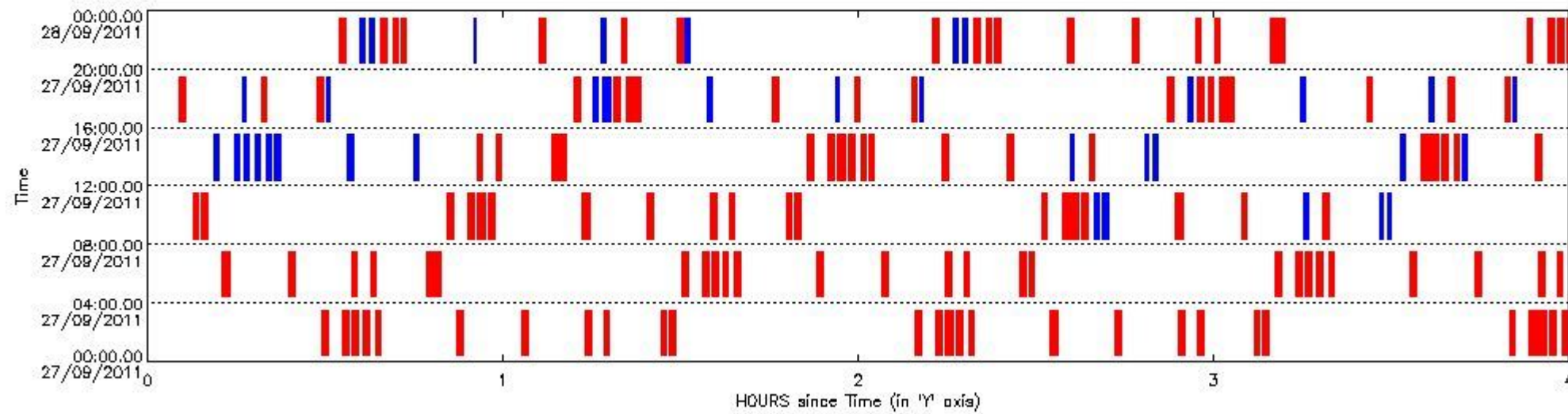
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

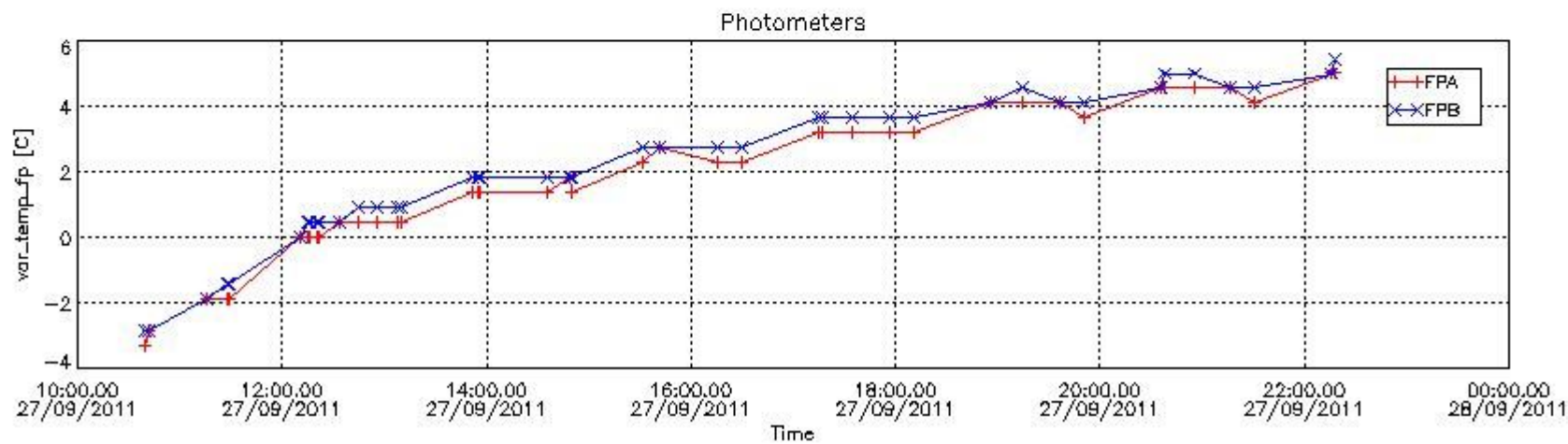
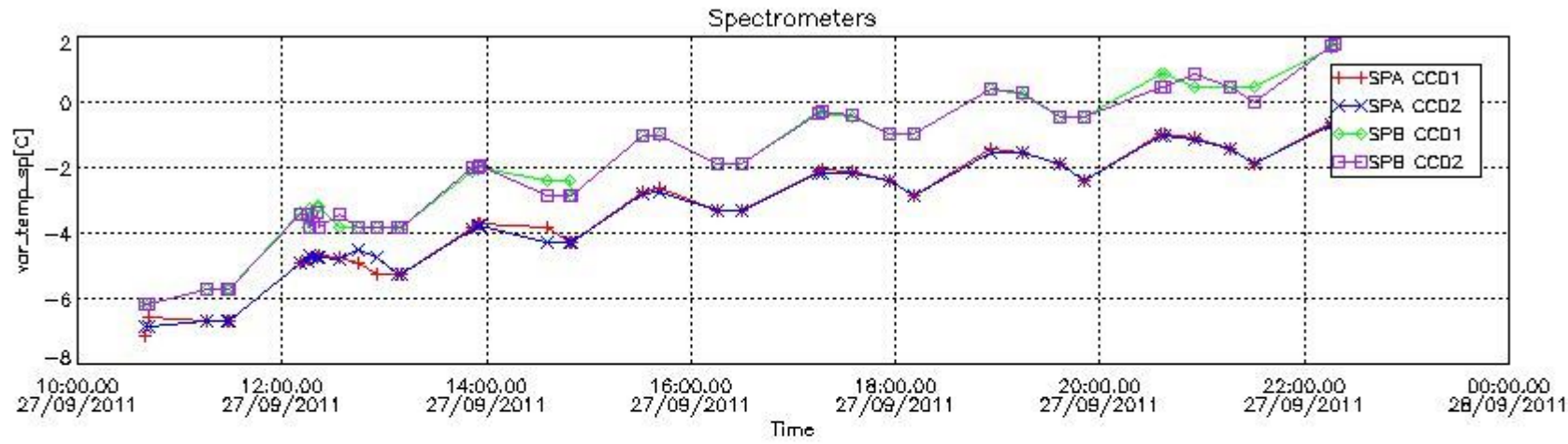
UTC start time	Star name	Star ID	Orbit
27-SEP-2011 00:29:24	15RhoPup	132	50073
27-SEP-2011 00:32:50	31EtaCMa	88	50073
27-SEP-2011 00:34:25	21EpsCMa	23	50073
27-SEP-2011 00:36:19	DSA1055	0	50073
27-SEP-2011 00:38:21	TauPup	161	50074
27-SEP-2011 00:52:05	The1Eri	157	50074
27-SEP-2011 01:03:12	16BetCet	52	50074
27-SEP-2011 01:13:53	88GamPeg	140	50074
27-SEP-2011 01:17:04	53BetPeg	93	50074
27-SEP-2011 01:26:37	11BetCas	74	50074
27-SEP-2011 01:28:03	27GamCas	76	50074
27-SEP-2011 02:09:39	15RhoPup	132	50074
27-SEP-2011 02:13:05	31EtaCMa	88	50074
27-SEP-2011 02:14:40	21EpsCMa	23	50074
27-SEP-2011 02:16:34	DSA1055	0	50074

27-SEP-2011 02:18:36	TauPup	161	50075
27-SEP-2011 02:32:20	The1Eri	157	50075
27-SEP-2011 02:43:26	16BetCet	52	50075
27-SEP-2011 02:54:07	88GamPeg	140	50075
27-SEP-2011 02:57:18	53BetPeg	93	50075
27-SEP-2011 03:06:51	11BetCas	74	50075
27-SEP-2011 03:08:16	27GamCas	76	50075
27-SEP-2011 03:49:54	15RhoPup	132	50075
27-SEP-2011 03:53:20	31EtaCMa	88	50075
27-SEP-2011 03:54:55	21EpsCMa	23	50075
27-SEP-2011 03:56:48	DSA1055	0	50075
27-SEP-2011 03:58:50	TauPup	161	50076
27-SEP-2011 04:12:34	The1Eri	157	50076
27-SEP-2011 04:23:40	16BetCet	52	50076
27-SEP-2011 04:34:20	88GamPeg	140	50076
27-SEP-2011 04:37:32	53BetPeg	93	50076
27-SEP-2011 04:47:05	11BetCas	74	50076
27-SEP-2011 04:48:30	27GamCas	76	50076
27-SEP-2011 05:30:08	15RhoPup	132	50076
27-SEP-2011 05:33:35	31EtaCMa	88	50076
27-SEP-2011 05:35:10	21EpsCMa	23	50076
27-SEP-2011 05:37:03	DSA1055	0	50076
27-SEP-2011 05:39:05	TauPup	161	50077
27-SEP-2011 05:52:49	The1Eri	157	50077
27-SEP-2011 06:03:54	16BetCet	52	50077
27-SEP-2011 06:14:34	88GamPeg	140	50077
27-SEP-2011 06:17:46	53BetPeg	93	50077
27-SEP-2011 06:27:18	11BetCas	74	50077
27-SEP-2011 06:28:43	27GamCas	76	50077
27-SEP-2011 07:10:23	15RhoPup	132	50077
27-SEP-2011 07:13:50	31EtaCMa	88	50077
27-SEP-2011 07:15:25	21EpsCMa	23	50077
27-SEP-2011 07:17:18	DSA1055	0	50077
27-SEP-2011 07:19:20	TauPup	161	50078
27-SEP-2011 07:33:04	The1Eri	157	50078
27-SEP-2011 07:44:08	16BetCet	52	50078
27-SEP-2011 07:54:48	88GamPeg	140	50078
27-SEP-2011 07:58:00	53BetPeg	93	50078
27-SEP-2011 08:07:32	11BetCas	74	50078
27-SEP-2011 08:08:57	27GamCas	76	50078
27-SEP-2011 08:50:38	15RhoPup	132	50078
27-SEP-2011 08:54:05	31EtaCMa	88	50078
27-SEP-2011 08:55:41	21EpsCMa	23	50078
27-SEP-2011 08:57:32	DSA1055	0	50078
27-SEP-2011 09:13:19	The1Eri	157	50079
27-SEP-2011 09:24:22	16BetCet	52	50079
27-SEP-2011 09:35:01	88GamPeg	140	50079
27-SEP-2011 09:38:13	53BetPeg	93	50079
27-SEP-2011 09:47:46	11BetCas	74	50079
27-SEP-2011 09:49:10	27GamCas	76	50079
27-SEP-2011 10:30:52	15RhoPup	132	50079
27-SEP-2011 10:34:20	31EtaCMa	88	50079
27-SEP-2011 10:35:56	21EpsCMa	23	50079
27-SEP-2011 10:37:47	DSA1055	0	50079
27-SEP-2011 10:53:33	The1Eri	157	50080
27-SEP-2011 11:04:36	16BetCet	52	50080
27-SEP-2011 11:18:27	53BetPeg	93	50080
27-SEP-2011 12:55:29	88GamPeg	140	50081
27-SEP-2011 12:58:41	53BetPeg	93	50081

27-SEP-2011 13:08:13	11BetCas	74	50081
27-SEP-2011 13:09:38	27GamCas	76	50081
27-SEP-2011 13:51:22	15RhoPup	132	50081
27-SEP-2011 13:54:49	31EtaCMa	88	50081
27-SEP-2011 13:56:26	21EpsCMa	23	50081
27-SEP-2011 13:58:16	DSA1055	0	50081
27-SEP-2011 14:00:18	TauPup	161	50082
27-SEP-2011 14:01:42	AlpCar	2	50082
27-SEP-2011 14:14:03	The1Eri	157	50082
27-SEP-2011 14:25:04	16BetCet	52	50082
27-SEP-2011 14:38:55	53BetPeg	93	50082
27-SEP-2011 15:35:04	31EtaCMa	88	50082
27-SEP-2011 15:36:41	21EpsCMa	23	50082
27-SEP-2011 15:38:31	DSA1055	0	50082
27-SEP-2011 15:40:33	TauPup	161	50083
27-SEP-2011 15:54:18	The1Eri	157	50083
27-SEP-2011 16:05:18	16BetCet	52	50083
27-SEP-2011 16:19:09	53BetPeg	93	50083
27-SEP-2011 16:28:40	11BetCas	74	50083
27-SEP-2011 17:11:51	15RhoPup	132	50083
27-SEP-2011 17:18:46	DSA1055	0	50083
27-SEP-2011 17:20:48	TauPup	161	50084
27-SEP-2011 17:22:11	AlpCar	2	50084
27-SEP-2011 17:45:33	16BetCet	52	50084
27-SEP-2011 17:59:23	53BetPeg	93	50084
27-SEP-2011 18:08:54	11BetCas	74	50084
27-SEP-2011 18:52:06	15RhoPup	132	50084
27-SEP-2011 18:57:11	21EpsCMa	23	50084
27-SEP-2011 18:59:00	DSA1055	0	50084
27-SEP-2011 19:01:02	TauPup	161	50085
27-SEP-2011 19:02:26	AlpCar	2	50085
27-SEP-2011 19:25:47	16BetCet	52	50085
27-SEP-2011 19:39:37	53BetPeg	93	50085
27-SEP-2011 19:49:08	11BetCas	74	50085
27-SEP-2011 20:32:21	15RhoPup	132	50085
27-SEP-2011 20:39:15	DSA1055	0	50085
27-SEP-2011 20:41:17	TauPup	161	50086
27-SEP-2011 20:42:41	AlpCar	2	50086
27-SEP-2011 21:06:01	16BetCet	52	50086
27-SEP-2011 21:19:51	53BetPeg	93	50086
27-SEP-2011 21:29:21	11BetCas	74	50086
27-SEP-2011 22:12:35	15RhoPup	132	50086
27-SEP-2011 22:19:30	DSA1055	0	50086
27-SEP-2011 22:21:32	TauPup	161	50087
27-SEP-2011 22:22:55	AlpCar	2	50087
27-SEP-2011 22:35:16	The1Eri	157	50087
27-SEP-2011 22:46:15	16BetCet	52	50087
27-SEP-2011 22:56:51	88GamPeg	140	50087
27-SEP-2011 23:00:06	53BetPeg	93	50087
27-SEP-2011 23:09:35	11BetCas	74	50087
27-SEP-2011 23:10:59	27GamCas	76	50087
27-SEP-2011 23:52:50	15RhoPup	132	50087
27-SEP-2011 23:56:19	31EtaCMa	88	50087
27-SEP-2011 23:57:57	21EpsCMa	23	50087
27-SEP-2011 23:59:44	DSA1055	0	50087

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDK20110927_103947_000000453107_00066_50080_0368.N1	27-SEP-2011 10:39:47	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	50080	No
2	GOM_TRA_1PNPDK20110927_104110_000000593107_00066_50080_0369.N1	27-SEP-2011 10:41:10	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	50080	No
3	GOM_TRA_1PNPDK20110927_111513_000000413107_00066_50080_0413.N1	27-SEP-2011 11:15:13	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50080	No
4	GOM_TRA_1PNPDK20110927_112757_000000403107_00066_50080_0414.N1	27-SEP-2011 11:27:57	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	50080	No
5	GOM_TRA_1PNPDK20110927_112922_000000403107_00066_50080_0415.N1	27-SEP-2011 11:29:22	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50080	No
6	GOM_TRA_1PNPDK20110927_121105_000000463107_00066_50080_0416.N1	27-SEP-2011 12:11:05	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	50080	No
7	GOM_TRA_1PNPDK20110927_121432_000000503107_00066_50080_0417.N1	27-SEP-2011 12:14:32	Dark	50.000	88	31Eta CMa	2.4480	20000.	100	50080	No
8	GOM_TRA_1PNPDK20110927_121608_000000483107_00066_50080_0418.N1	27-SEP-2011 12:16:08	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	50080	No
9	GOM_TRA_1PNPDK20110927_122001_000000433107_00067_50081_0419.N1	27-SEP-2011 12:20:01	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	50081	No
10	GOM_TRA_1PNPDK20110927_122125_000000533107_00067_50081_0420.N1	27-SEP-2011 12:21:25	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	50081	No
11	GOM_TRA_1PNPDK20110927_123346_000000513107_00067_50081_0421.N1	27-SEP-2011 12:33:46	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	50081	No
12	GOM_TRA_1PNPDK20110927_124448_000000483107_00067_50081_0422.N1	27-SEP-2011 12:44:48	Twilight	48.000	52	16Bet Cet	2.0370	4500.0	96	50081	No
13	GOM_TRA_1PNPDK20110927_125526_000000413107_00067_50081_0464.N1	27-SEP-2011 12:55:26	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50081	No
14	GOM_TRA_1PNPDK20110927_130811_000000403107_00067_50081_0465.N1	27-SEP-2011 13:08:11	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	50081	No
15	GOM_TRA_1PNPDK20110927_130935_000000413107_00067_50081_0466.N1	27-SEP-2011 13:09:35	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	50081	No
16	GOM_TRA_1PNPDK20110927_135120_000000473107_00067_50081_0467.N1	27-SEP-2011 13:51:20	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	50081	No
17	GOM_TRA_1PNPDK20110927_135447_000000483107_00067_50081_0468.N1	27-SEP-2011 13:54:47	Dark	47.500	88	31Eta CMa	2.4480	20000.	95	50081	No
18	GOM_TRA_1PNPDK20110927_135624_000000523107_00067_50081_0469.N1	27-SEP-2011 13:56:24	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	50081	No
19	GOM_TRA_1PNPDK20110927_143540_000000423107_00068_50082_0510.N1	27-SEP-2011 14:35:40	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	50082	No
20	GOM_TRA_1PNPDK20110927_144824_000000373107_00068_50082_0511.N1	27-SEP-2011 14:48:24	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	50082	No
21	GOM_TRA_1PNPDK20110927_144949_000000423107_00068_50082_0512.N1	27-SEP-2011 14:49:49	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	50082	No
22	GOM_TRA_1PNPDK20110927_153134_000000473107_00068_50082_0513.N1	27-SEP-2011 15:31:34	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	50082	No
23	GOM_TRA_1PNPDK20110927_154154_000000473107_00069_50083_0514.N1	27-SEP-2011 15:41:54	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	50083	No
24	GOM_TRA_1PNPDK20110927_161554_000000413107_00069_50083_0544.N1	27-SEP-2011 16:15:54	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50083	No
25	GOM_TRA_1PNPDK20110927_163002_000000403107_00069_50083_0545.N1	27-SEP-2011 16:30:02	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50083	No
26	GOM_TRA_1PNPDK20110927_171517_000000483107_00069_50083_0546.N1	27-SEP-2011 17:15:17	Dark	47.500	88	31Eta CMa	2.4480	20000.	95	50083	No
27	GOM_TRA_1PNPDK20110927_171654_000000663107_00069_50083_0547.N1	27-SEP-2011 17:16:54	Dark	65.500	23	21Eps CMa	1.5020	26000.	131	50083	No
28	GOM_TRA_1PNPDK20110927_173430_000000493107_00070_50084_0548.N1	27-SEP-2011 17:34:30	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	50084	No
29	GOM_TRA_1PNPDK20110927_175608_000000413107_00070_50084_0572.N1	27-SEP-2011 17:56:08	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50084	No
30	GOM_TRA_1PNPDK20110927_181016_000000403107_00070_50084_0573.N1	27-SEP-2011 18:10:16	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50084	No
31	GOM_TRA_1PNPDK20110927_185532_000000483107_00070_50084_0574.N1	27-SEP-2011 18:55:32	Dark	48.000	88	31Eta CMa	2.4480	20000.	96	50084	No
32	GOM_TRA_1PNPDK20110927_191445_000000503107_00071_50085_0575.N1	27-SEP-2011 19:14:45	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	50085	No
33	GOM_TRA_1PNPDK20110927_193621_000000423107_00071_50085_0612.N1	27-SEP-2011 19:36:21	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	50085	No
34	GOM_TRA_1PNPDK20110927_195029_000000413107_00071_50085_0613.N1	27-SEP-2011 19:50:29	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	50085	No
35	GOM_TRA_1PNPDK20110927_203547_000000473107_00071_50085_0614.N1	27-SEP-2011 20:35:47	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	50085	No
36	GOM_TRA_1PNPDK20110927_203724_000000533107_00071_50085_0615.N1	27-SEP-2011 20:37:24	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	50085	No
37	GOM_TRA_1PNPDK20110927_205500_000000243107_00072_50086_0616.N1	27-SEP-2011 20:55:00	Straylight	23.500	157	The1Eri	2.9060	9300.0	47	50086	No
38	GOM_TRA_1PNPDE20110927_211635_000000413107_00072_50086_1955.N1	27-SEP-2011 21:16:35	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50086	No
39	GOM_TRA_1PNPDE20110927_213043_000000403107_00072_50086_1956.N1	27-SEP-2011 21:30:43	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50086	No
40	GOM_TRA_1PNPDE20110927_221602_000000493107_00072_50086_1991.N1	27-SEP-2011 22:16:02	Dark	49.000	88	31Eta CMa	2.4480	20000.	98	50086	No
41	GOM_TRA_1PNPDE20110927_221739_000000493107_00072_50086_1992.N1	27-SEP-2011 22:17:39	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	50086	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).

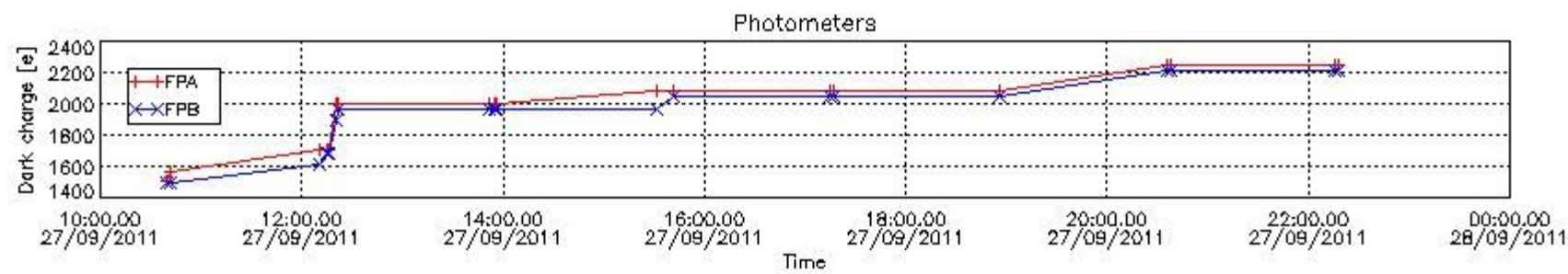
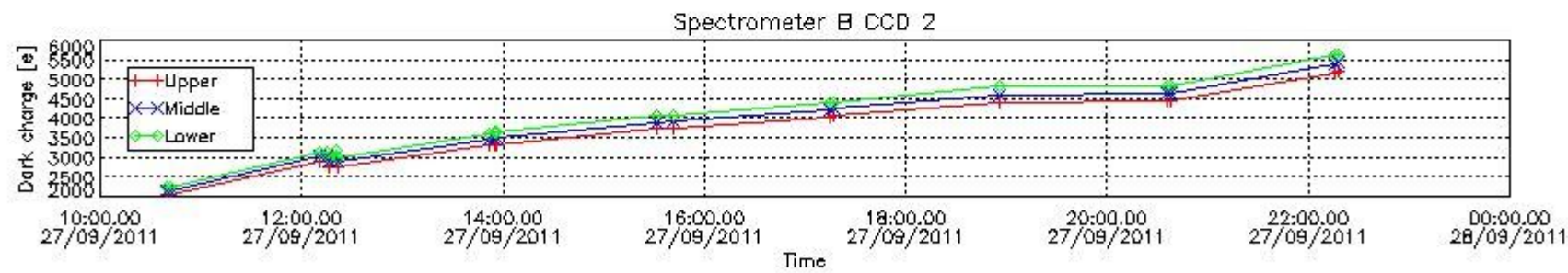
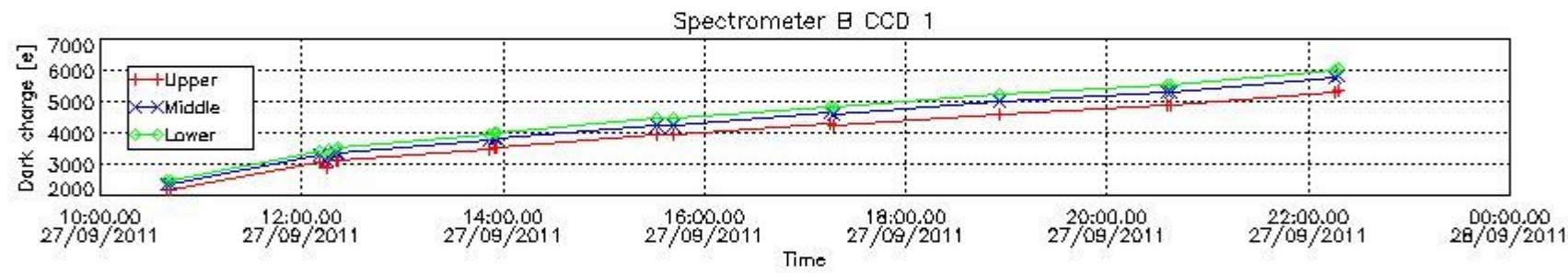
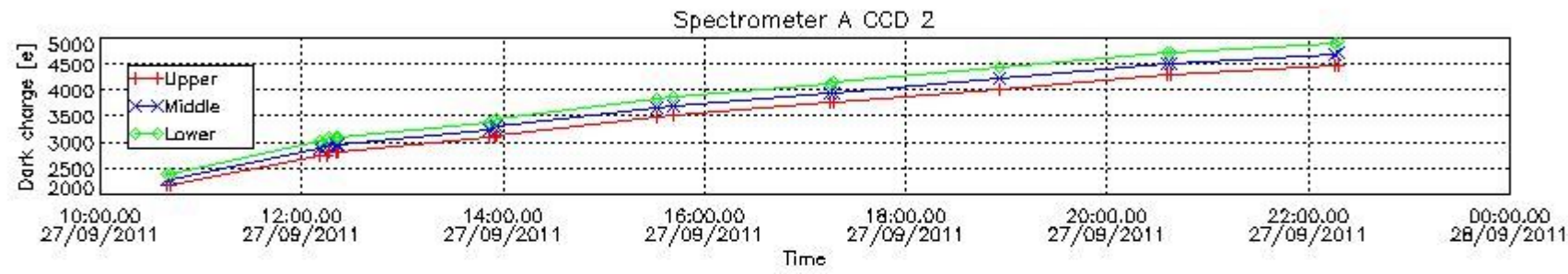
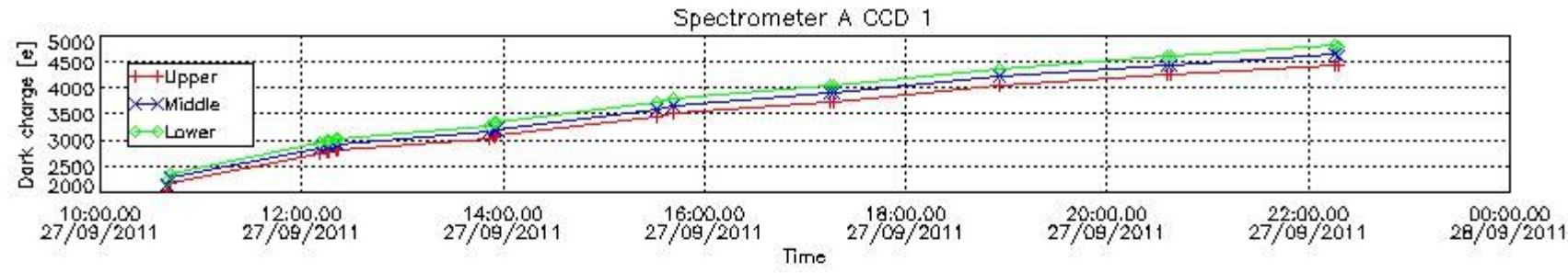
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDK20110927_103947_000000453107_00066_50080_0368.N1	DC map used
GOM_TRA_1PNPDK20110927_104110_000000593107_00066_50080_0369.N1	DC map used
GOM_TRA_1PNPDK20110927_125526_000000413107_00067_50081_0464.N1	DC map used
GOM_TRA_1PNPDK20110927_130811_000000403107_00067_50081_0465.N1	DC map used
GOM_TRA_1PNPDK20110927_130935_000000413107_00067_50081_0466.N1	DC map used
GOM_TRA_1PNPDK20110927_135120_000000473107_00067_50081_0467.N1	DC map used
GOM_TRA_1PNPDK20110927_135447_000000483107_00067_50081_0468.N1	DC map used
GOM_TRA_1PNPDK20110927_135624_000000523107_00067_50081_0469.N1	DC map used
GOM_TRA_1PNPDK20110927_143540_000000423107_00068_50082_0510.N1	DC map used
GOM_TRA_1PNPDK20110927_144824_000000373107_00068_50082_0511.N1	DC map used
GOM_TRA_1PNPDK20110927_144949_000000423107_00068_50082_0512.N1	DC map used
GOM_TRA_1PNPDK20110927_153134_000000473107_00068_50082_0513.N1	DC map used
GOM_TRA_1PNPDK20110927_154154_000000473107_00069_50083_0514.N1	DC map used
GOM_TRA_1PNPDK20110927_161554_000000413107_00069_50083_0544.N1	DC map used

GOM_TRA_1PNPDK20110927_163002_000000403107_00069_50083_0545.N1	DC map used
GOM_TRA_1PNPDK20110927_171517_000000483107_00069_50083_0546.N1	DC map used
GOM_TRA_1PNPDK20110927_171654_000000663107_00069_50083_0547.N1	DC map used
GOM_TRA_1PNPDK20110927_173430_000000493107_00070_50084_0548.N1	DC map used
GOM_TRA_1PNPDK20110927_175608_000000413107_00070_50084_0572.N1	DC map used
GOM_TRA_1PNPDK20110927_181016_000000403107_00070_50084_0573.N1	DC map used
GOM_TRA_1PNPDK20110927_185532_000000483107_00070_50084_0574.N1	DC map used
GOM_TRA_1PNPDK20110927_191445_000000503107_00071_50085_0575.N1	DC map used
GOM_TRA_1PNPDK20110927_193621_000000423107_00071_50085_0612.N1	DC map used
GOM_TRA_1PNPDK20110927_195029_000000413107_00071_50085_0613.N1	DC map used
GOM_TRA_1PNPDK20110927_203547_000000473107_00071_50085_0614.N1	DC map used
GOM_TRA_1PNPDK20110927_203724_000000533107_00071_50085_0615.N1	DC map used
GOM_TRA_1PNPDK20110927_205500_000000243107_00072_50086_0616.N1	DC map used
GOM_TRA_1PNPDE20110927_211635_000000413107_00072_50086_1955.N1	DC map used
GOM_TRA_1PNPDE20110927_213043_000000403107_00072_50086_1956.N1	DC map used
GOM_TRA_1PNPDE20110927_221602_000000493107_00072_50086_1991.N1	DC map used
GOM_TRA_1PNPDE20110927_221739_000000493107_00072_50086_1992.N1	DC map used

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



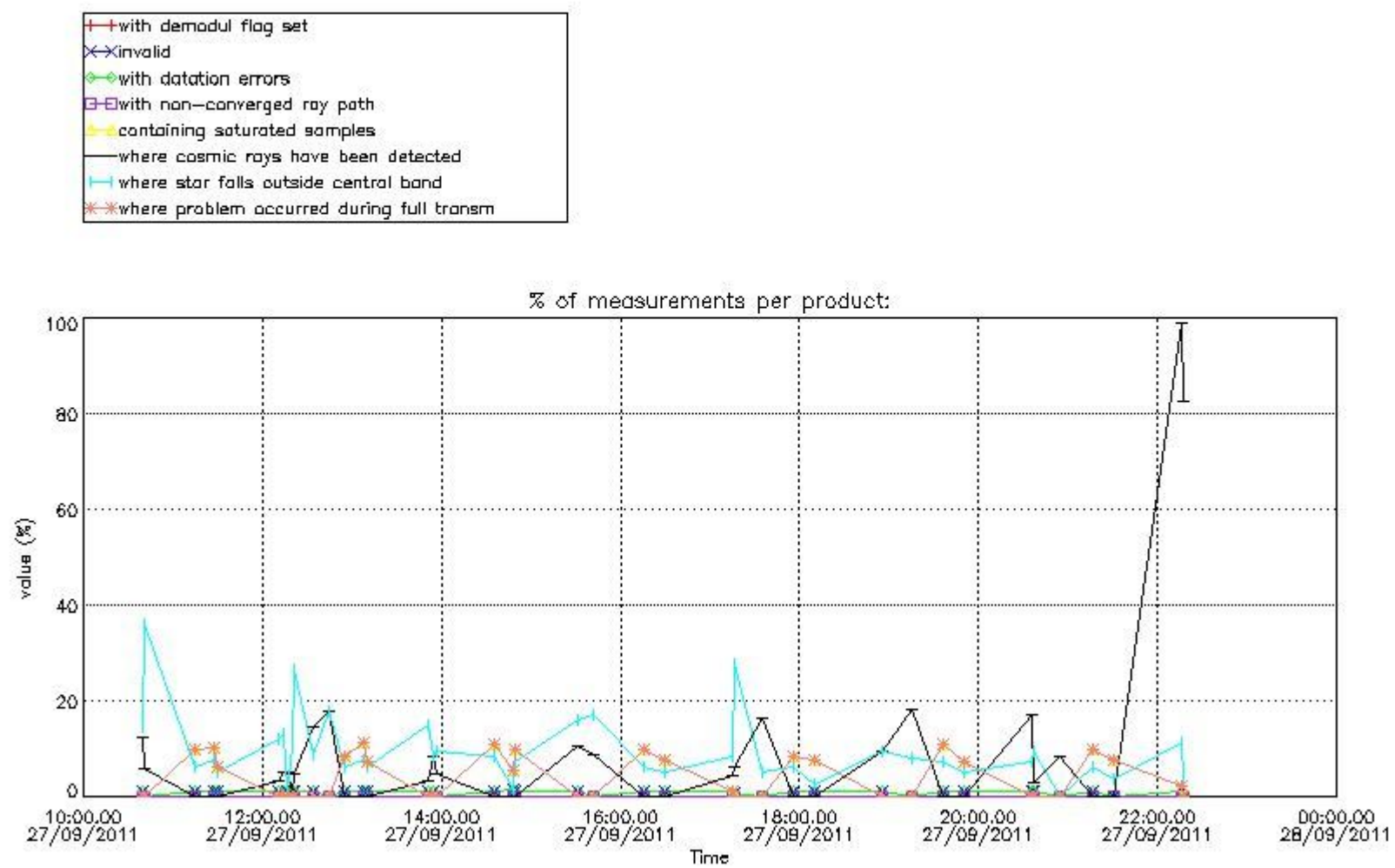
5. Demodulation flag and quality information monitoring

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.

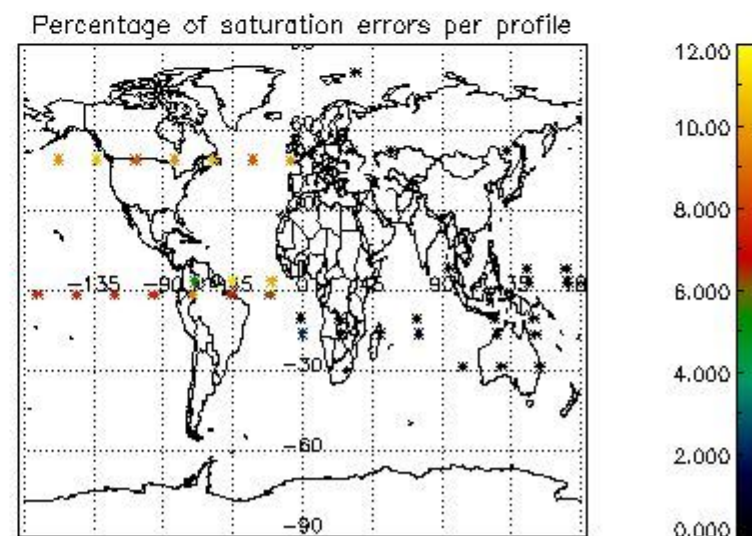
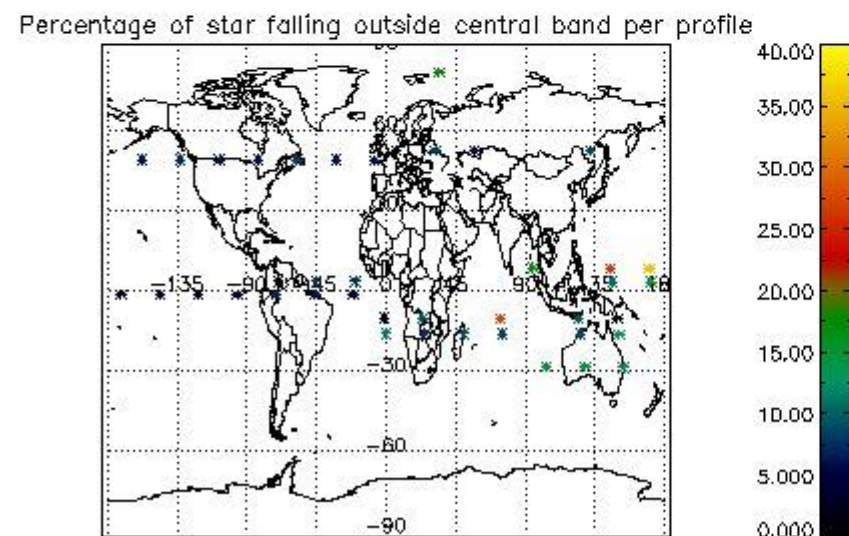
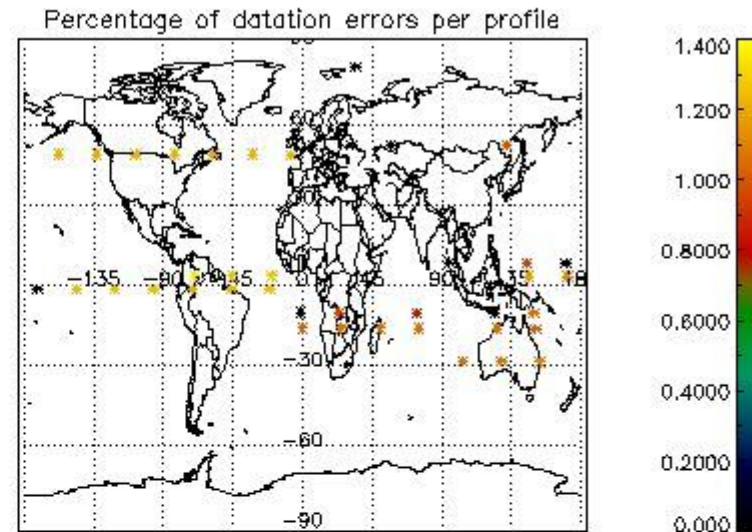
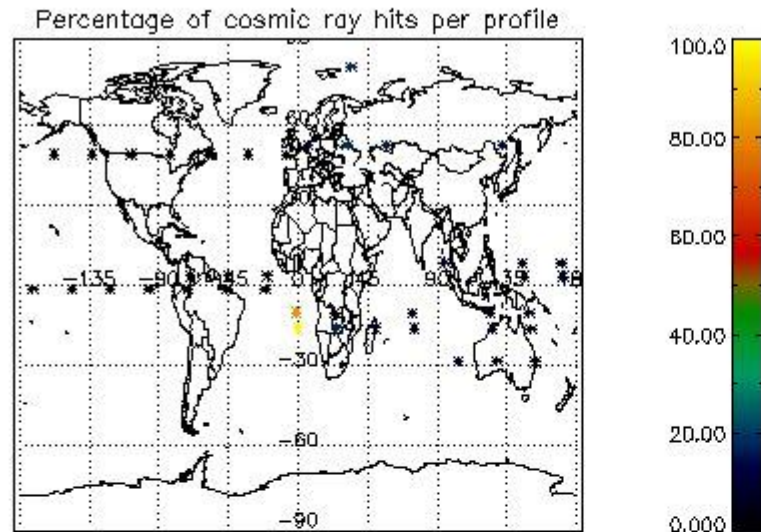
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	19.5122 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	41.4634 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



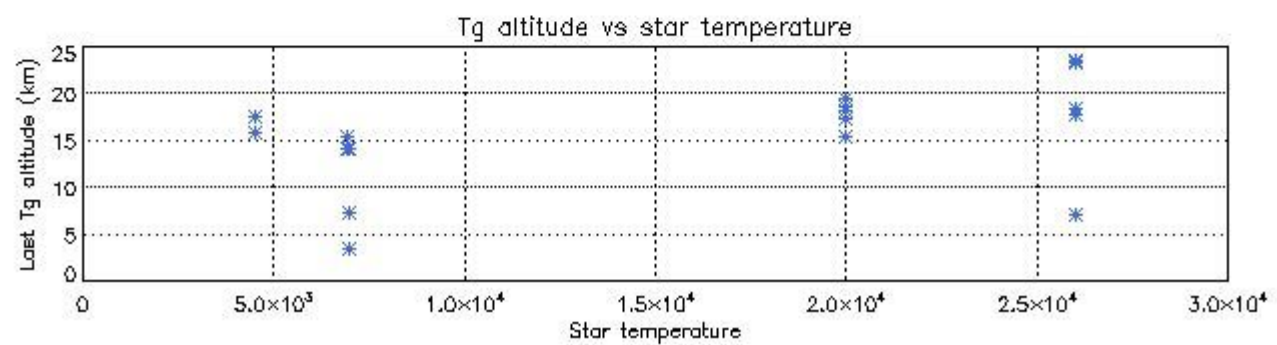
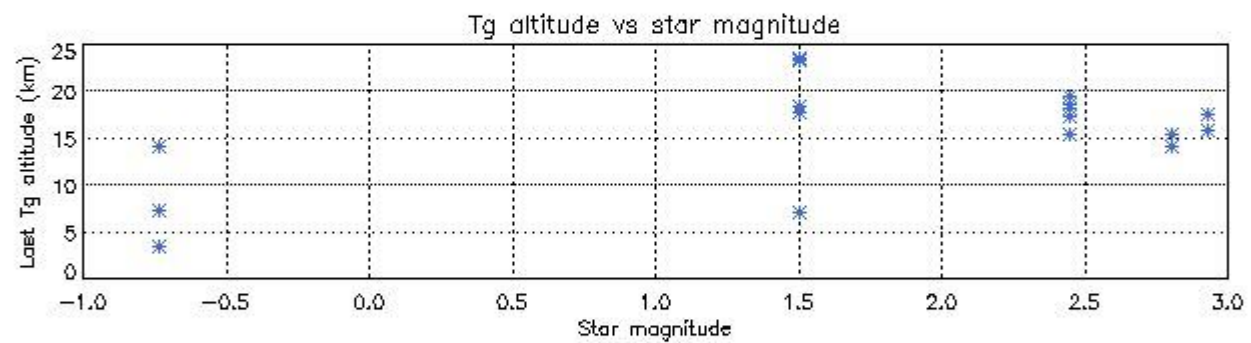
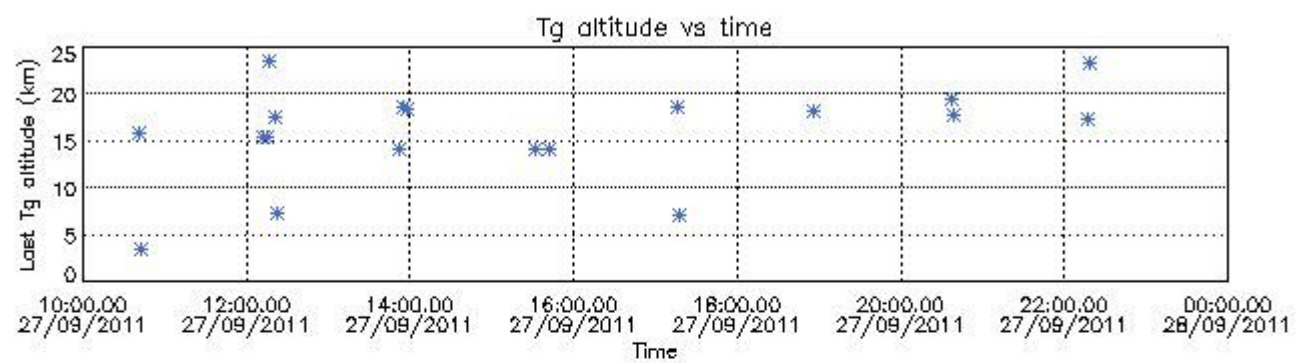
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.733	21.563	NaN
St. deviation:	5.1314	1.2486	NaN
Maximum:	23.427	24.722	NaN
Minimum:	3.4403	19.508	NaN
Number of data:	19.000	17.000	NaN

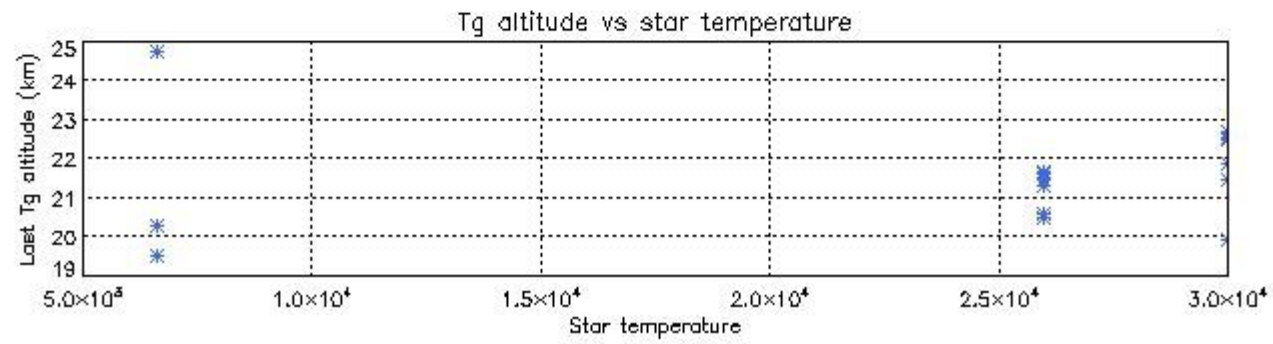
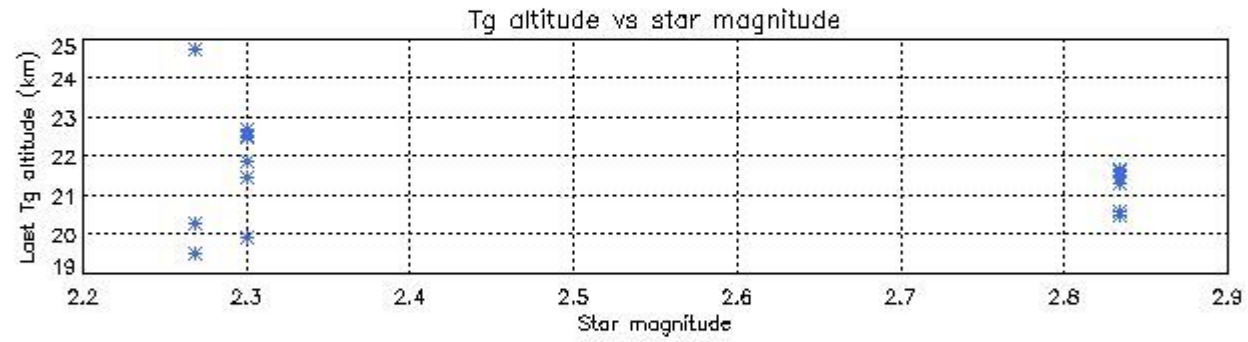
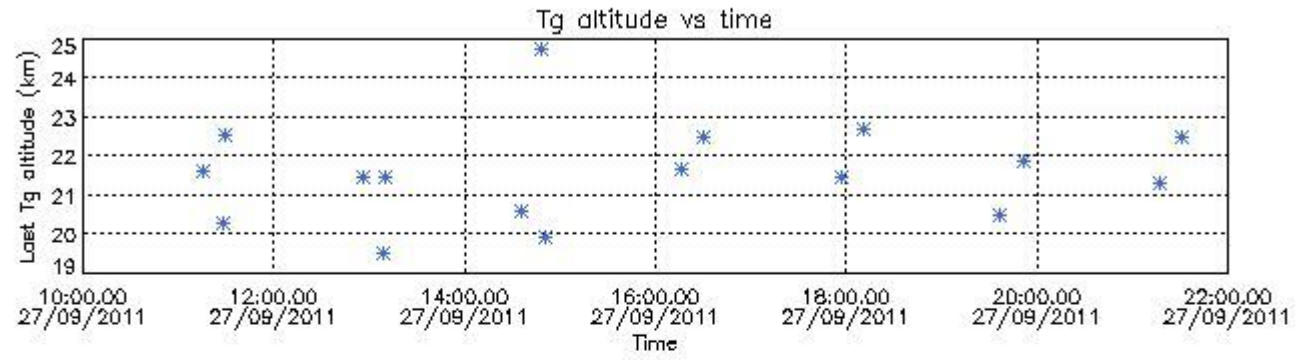
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

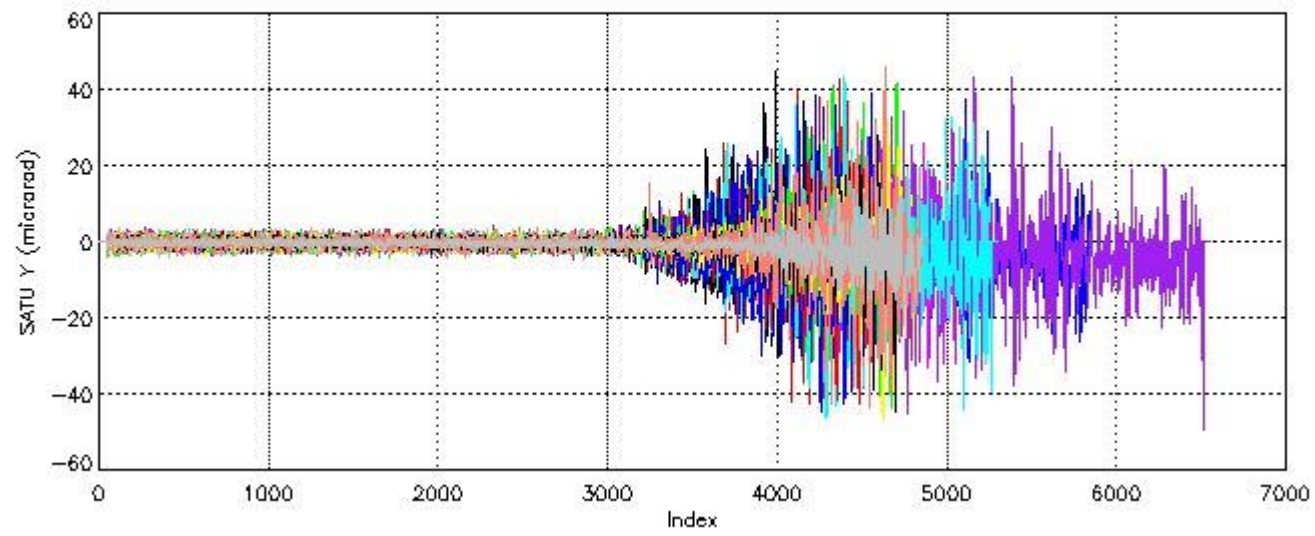
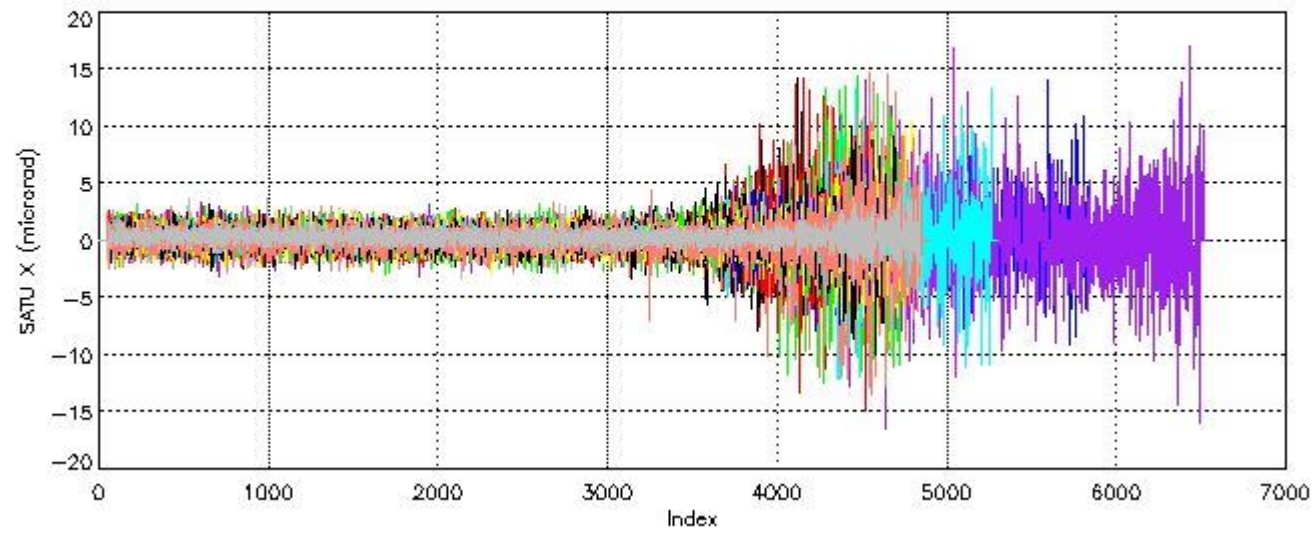


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24563	-0.26150	0.21453	-0.28067
St. deviation:	0.60444	0.77257	1.1447	1.3038
Maximum:	3.7000	3.6000	6.5000	6.2000
Minimum:	-3.2000	-4.3000	-8.7000	-8.1000

Number of data:	20950.	20950.	16500.	16500.
90Percentile:	1.1000	0.70000	1.7000	1.3000

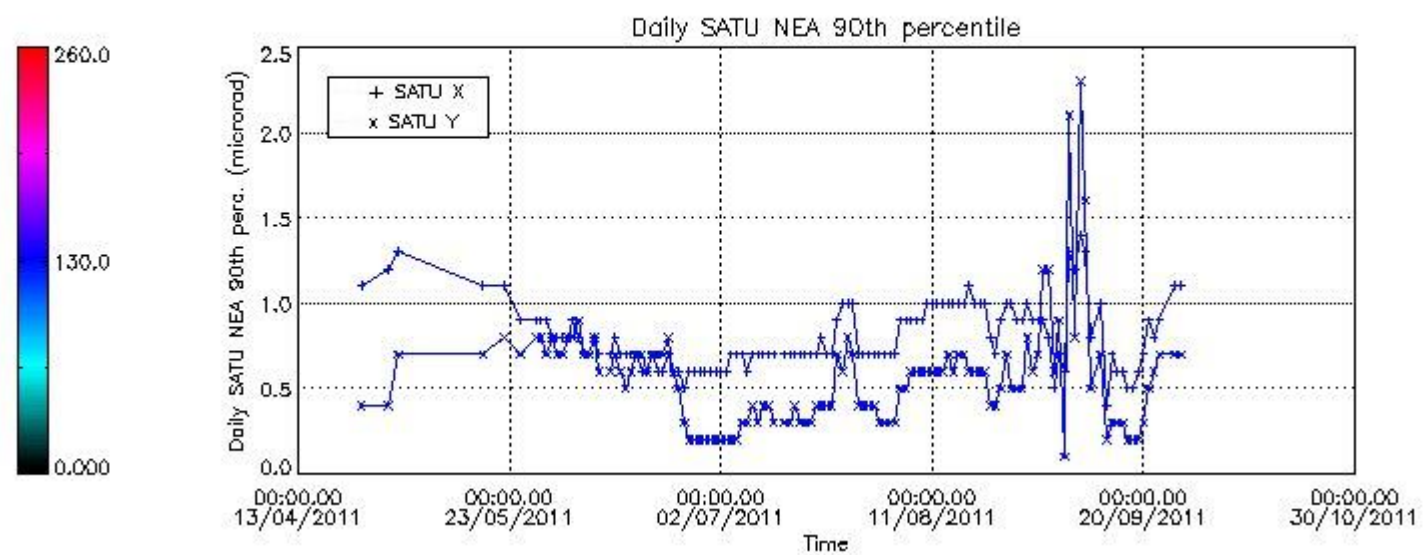
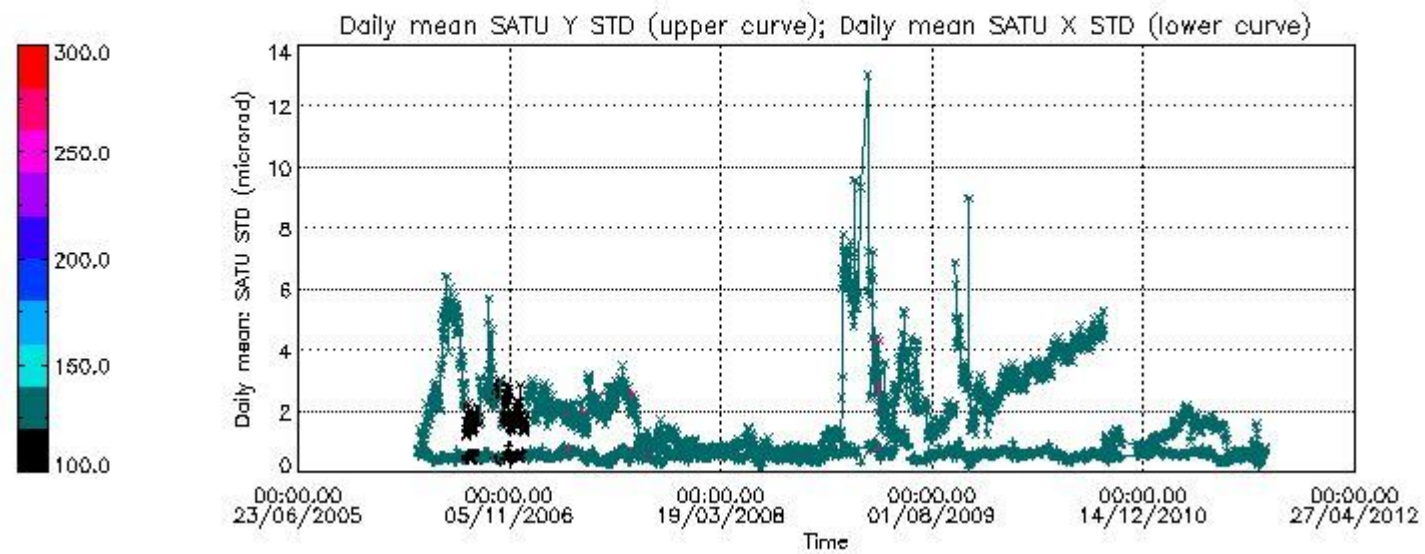
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

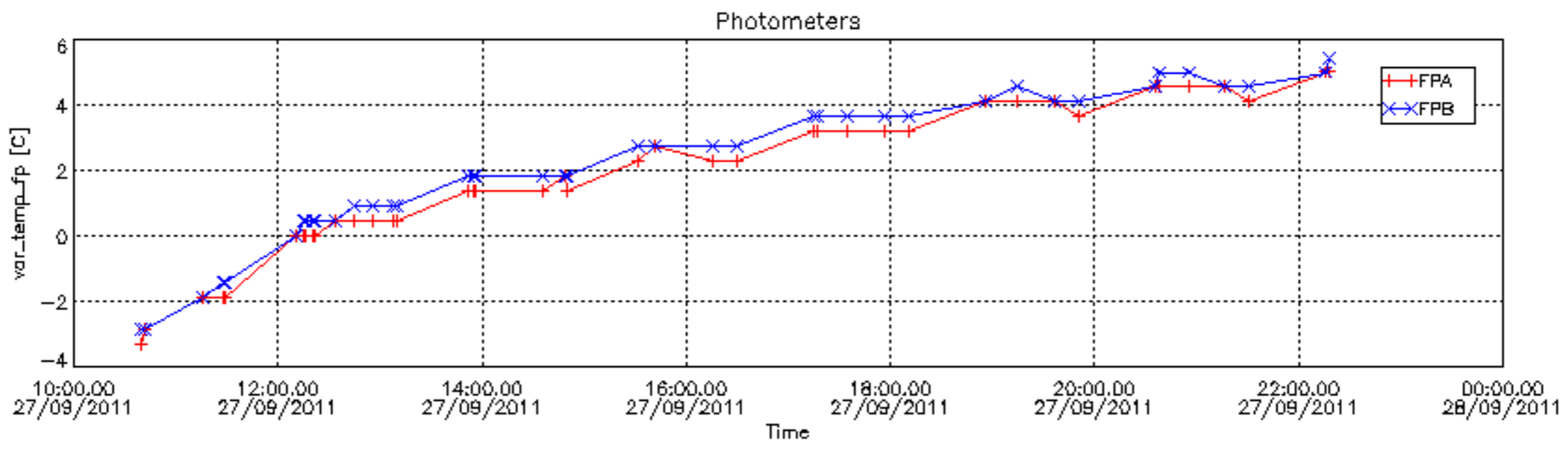
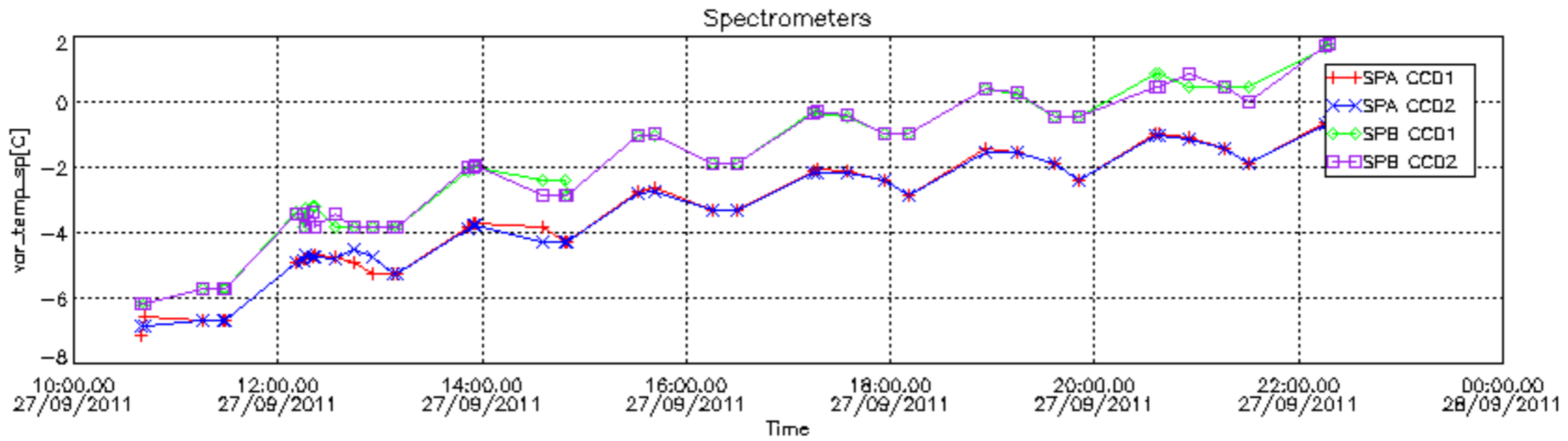
Lower curve: STD of SATU X axis

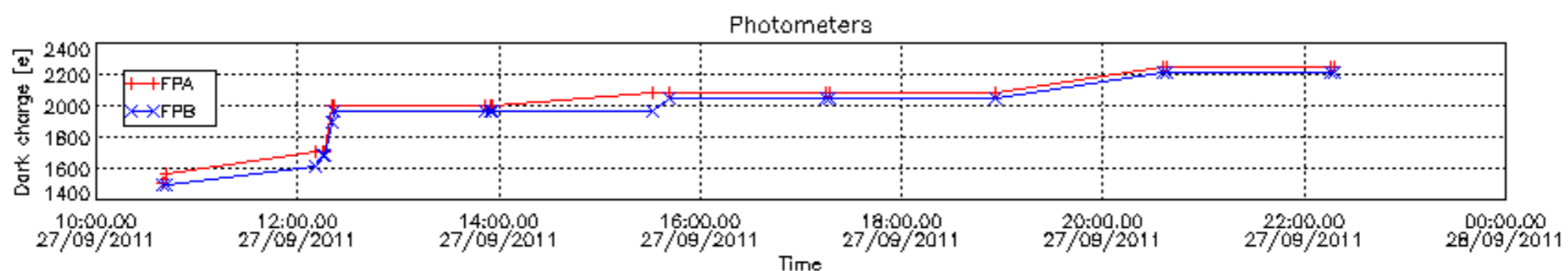
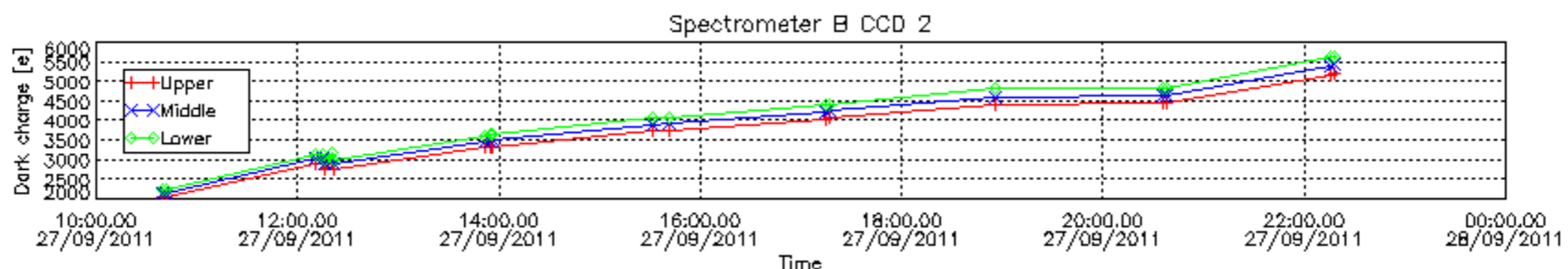
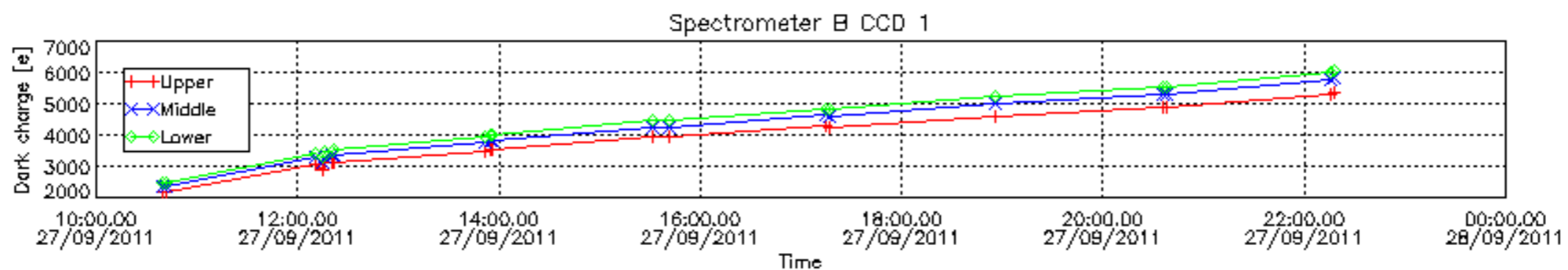
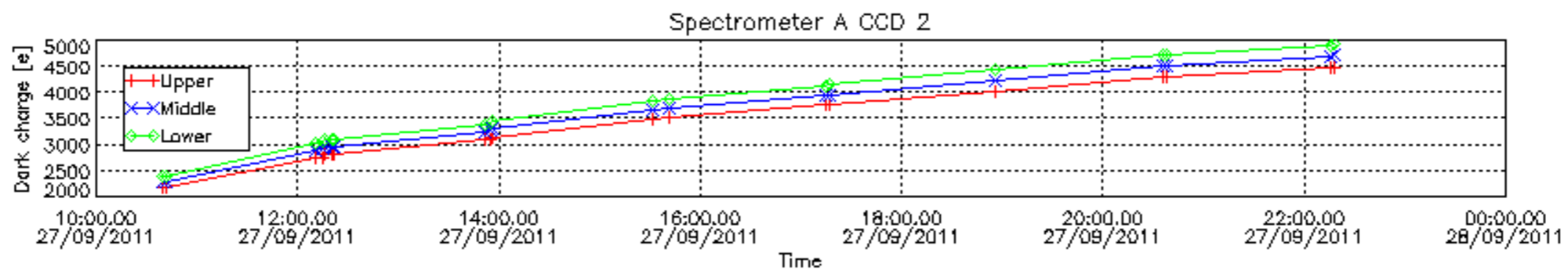
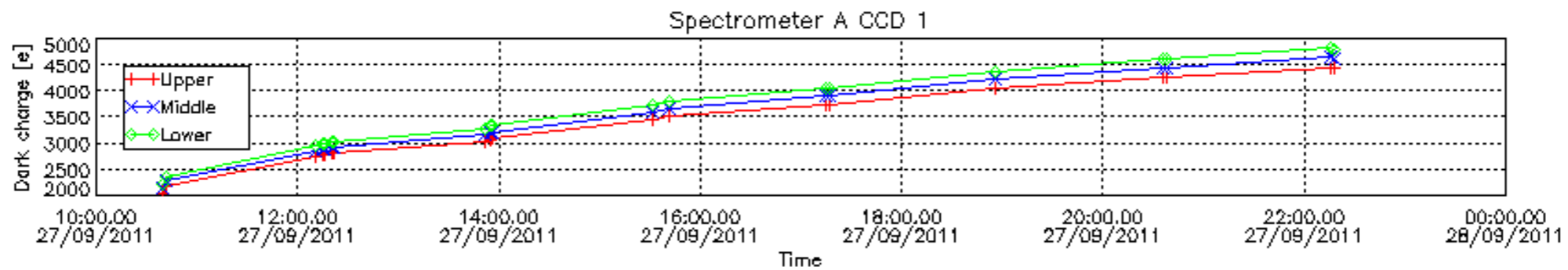


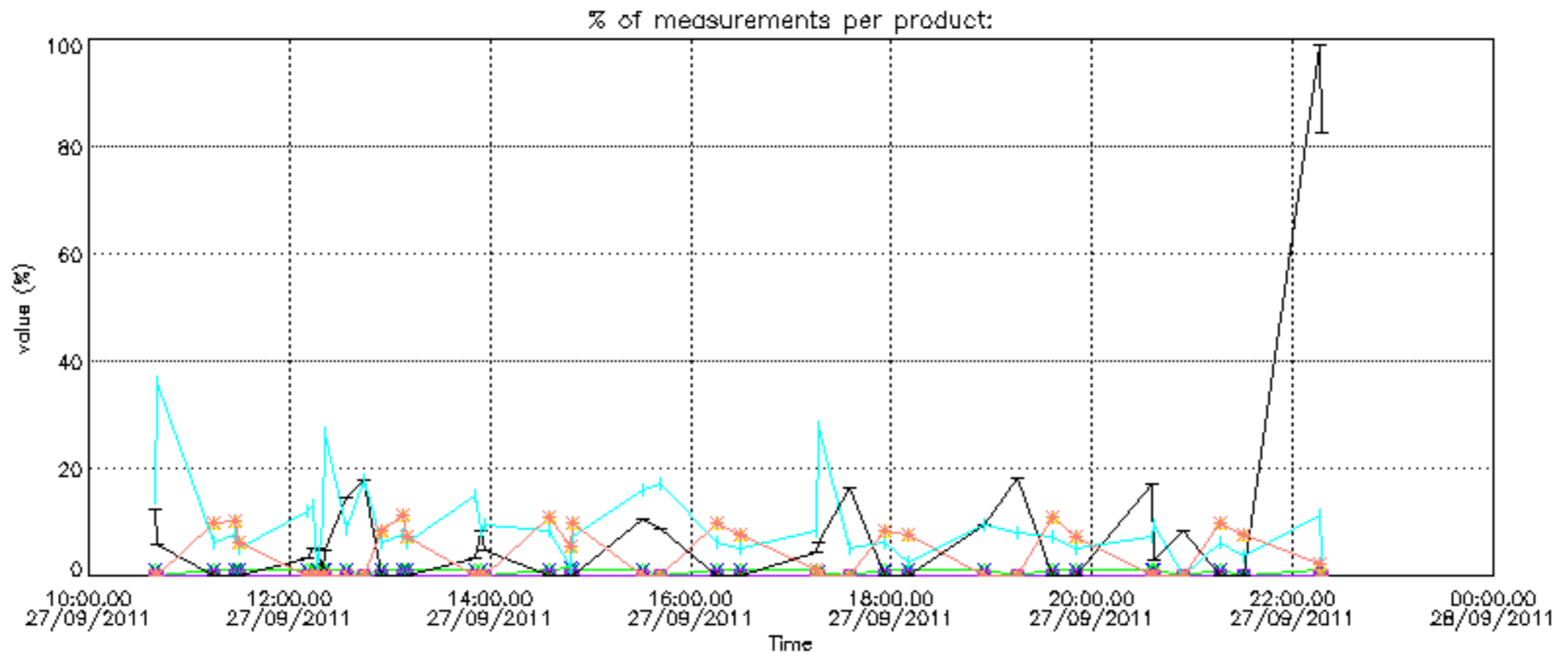
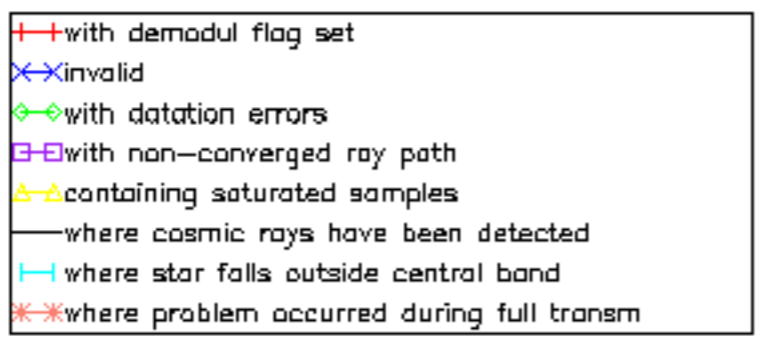
8. Auxiliary Data Files used for the production reported in section 2.4

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.

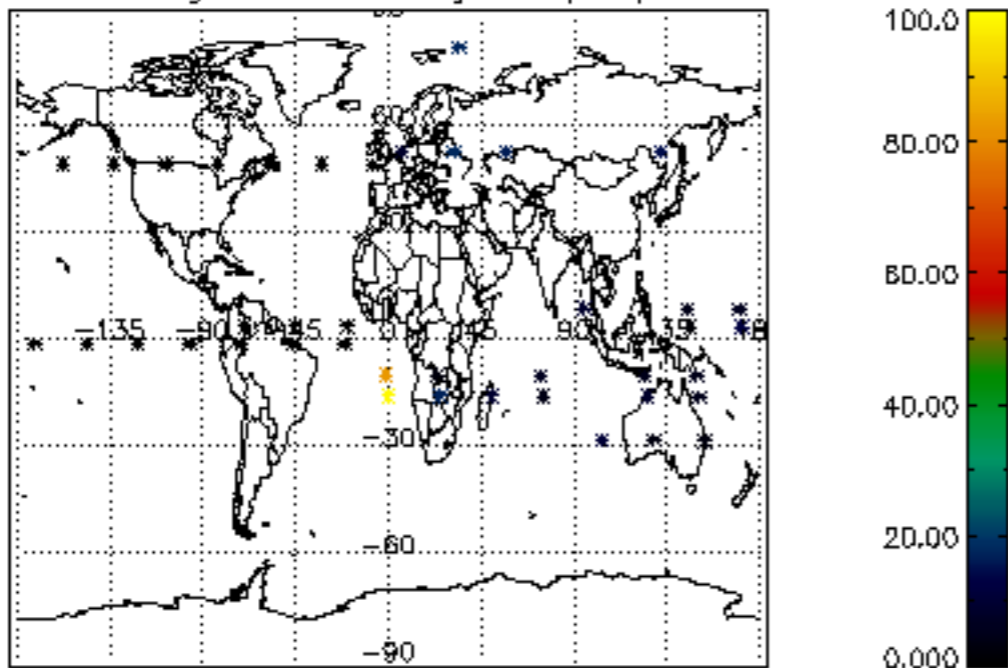
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-SEP-2011 10:39:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110923_090428_20110920_000000_20500101_000000	1	27-SEP-2011 10:39:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	27-SEP-2011 10:39:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-SEP-2011 10:39:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	27-SEP-2011 10:39:47
ECMWF_FILE	AUX_ECF_AXNECM20110926_183245_20110927_030000_20110927_150000	1	27-SEP-2011 10:39:47
ECMWF_FILE	MISSING	19	27-SEP-2011 14:35:40
ECMWF_FILE	AUX_ECA_AXNECM20110927_181345_20110927_090000_20110927_210000	29	27-SEP-2011 17:56:08
ECMWF_FILE	AUX_ECF_AXNECM20110927_062114_20110927_210000_20110928_090000	38	27-SEP-2011 21:16:35
OPTIONAL_ECMWF_FILE	MISSING	1	27-SEP-2011 10:39:47
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110926_103246_20110925_183317_20111005_204701	1	27-SEP-2011 10:39:47
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110927_102113_20110926_193647_20111006_201017	3	27-SEP-2011 11:15:13



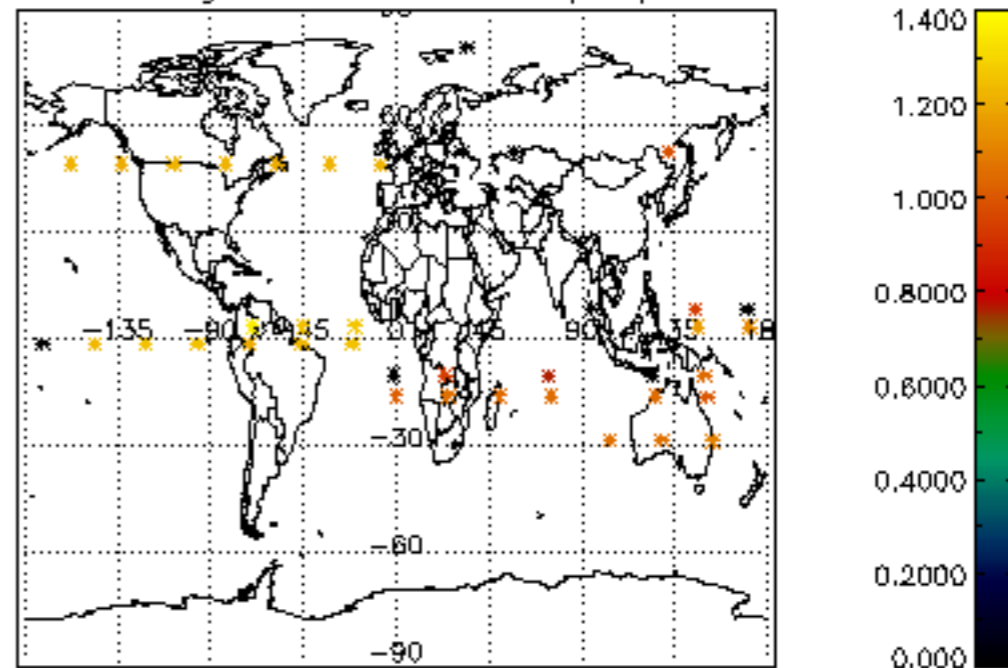




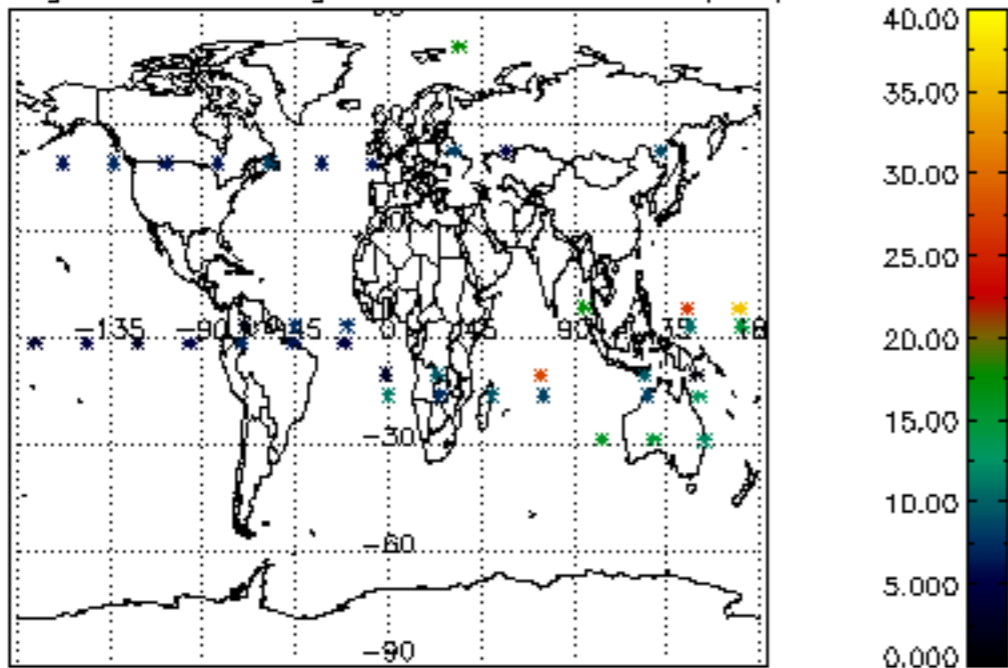
Percentage of cosmic ray hits per profile



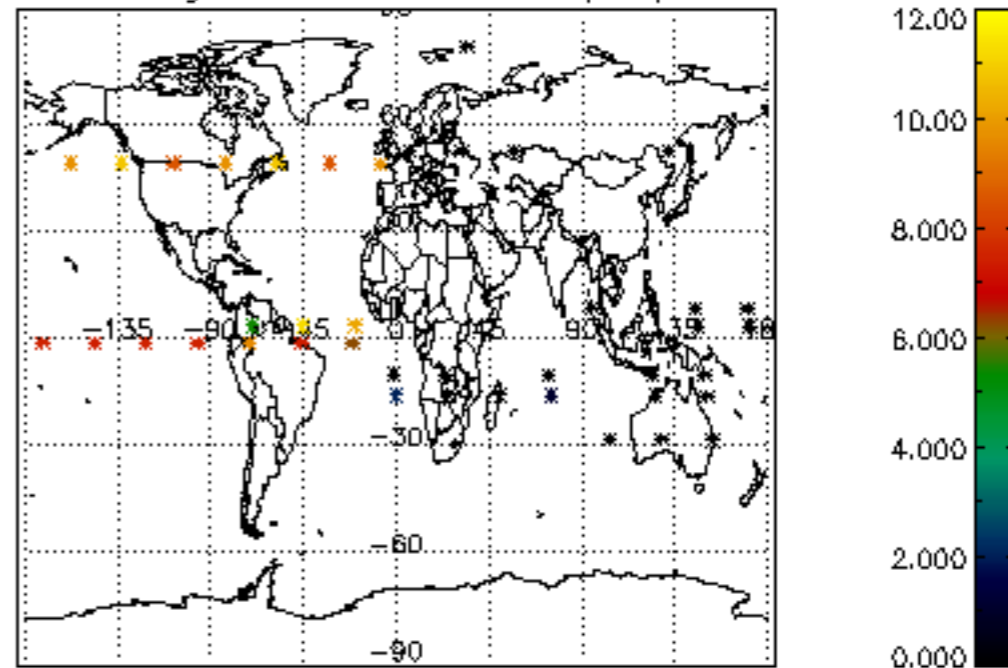
Percentage of datation errors per profile



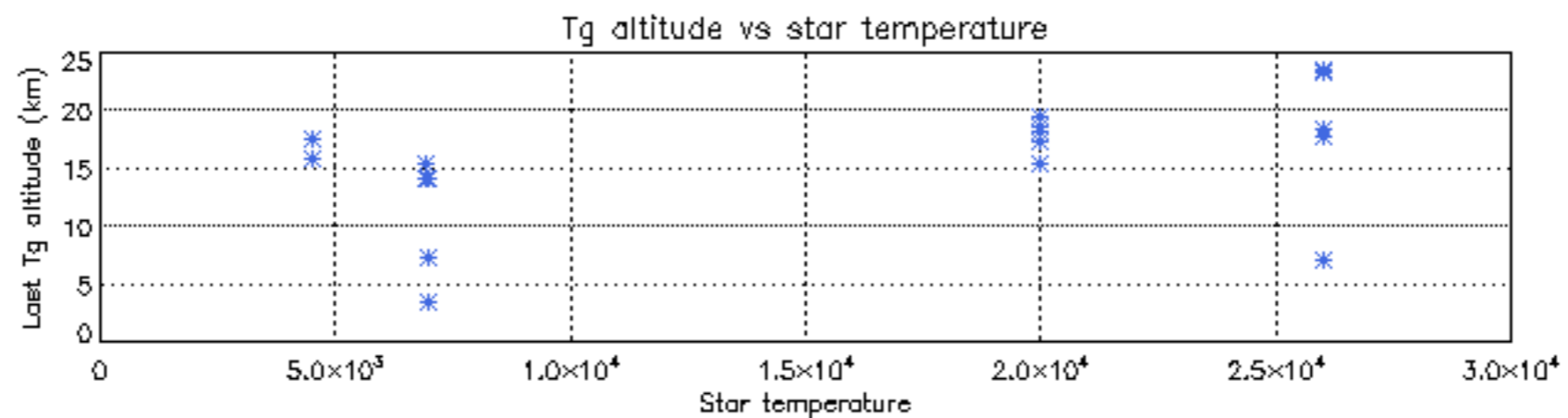
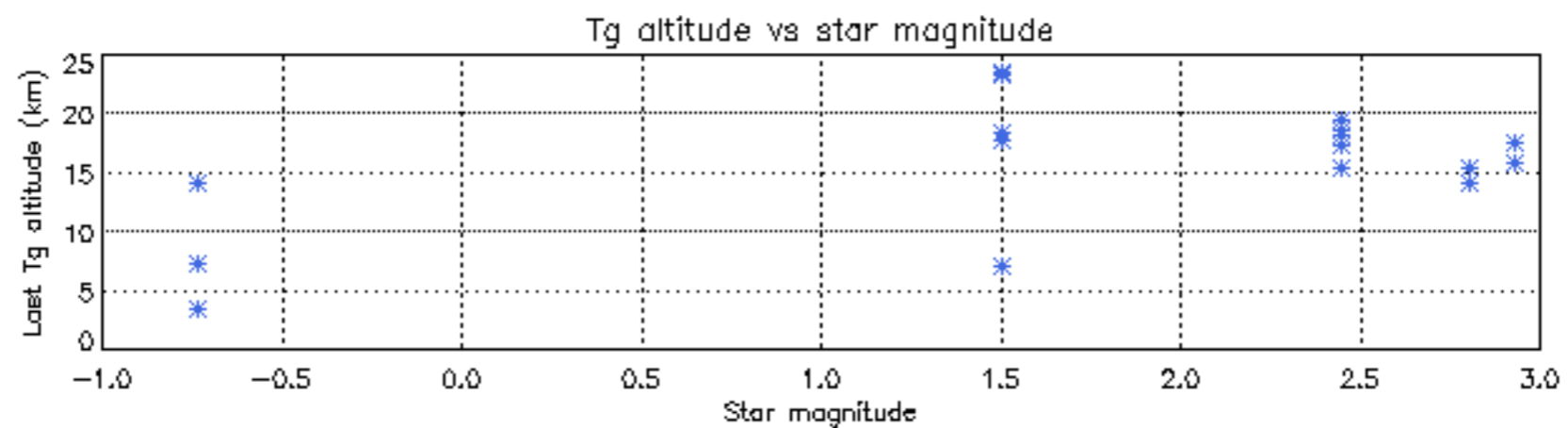
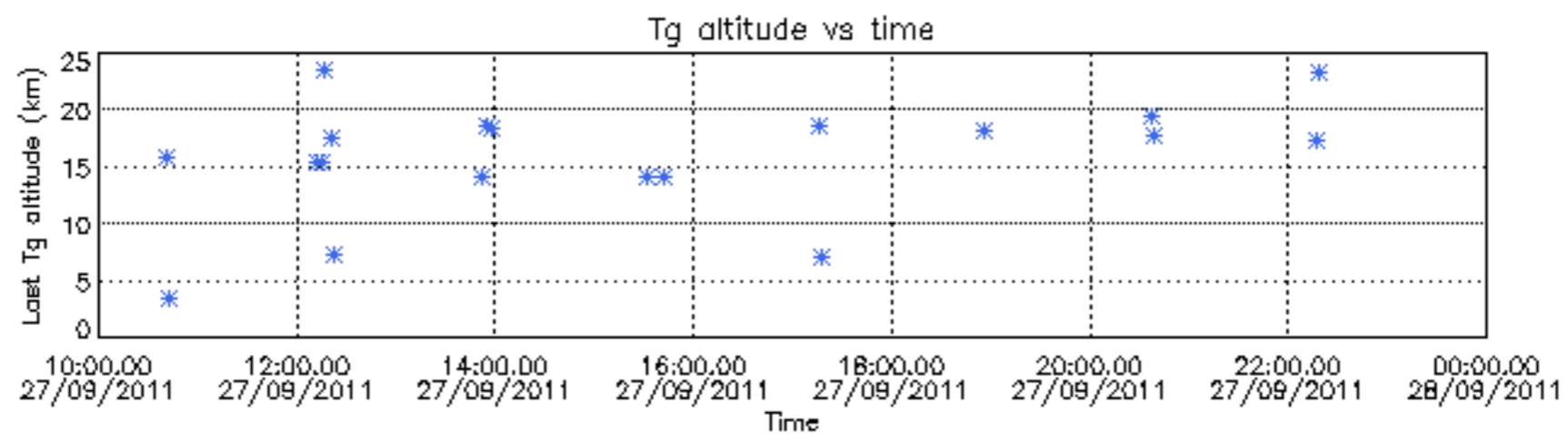
Percentage of star falling outside central band per profile

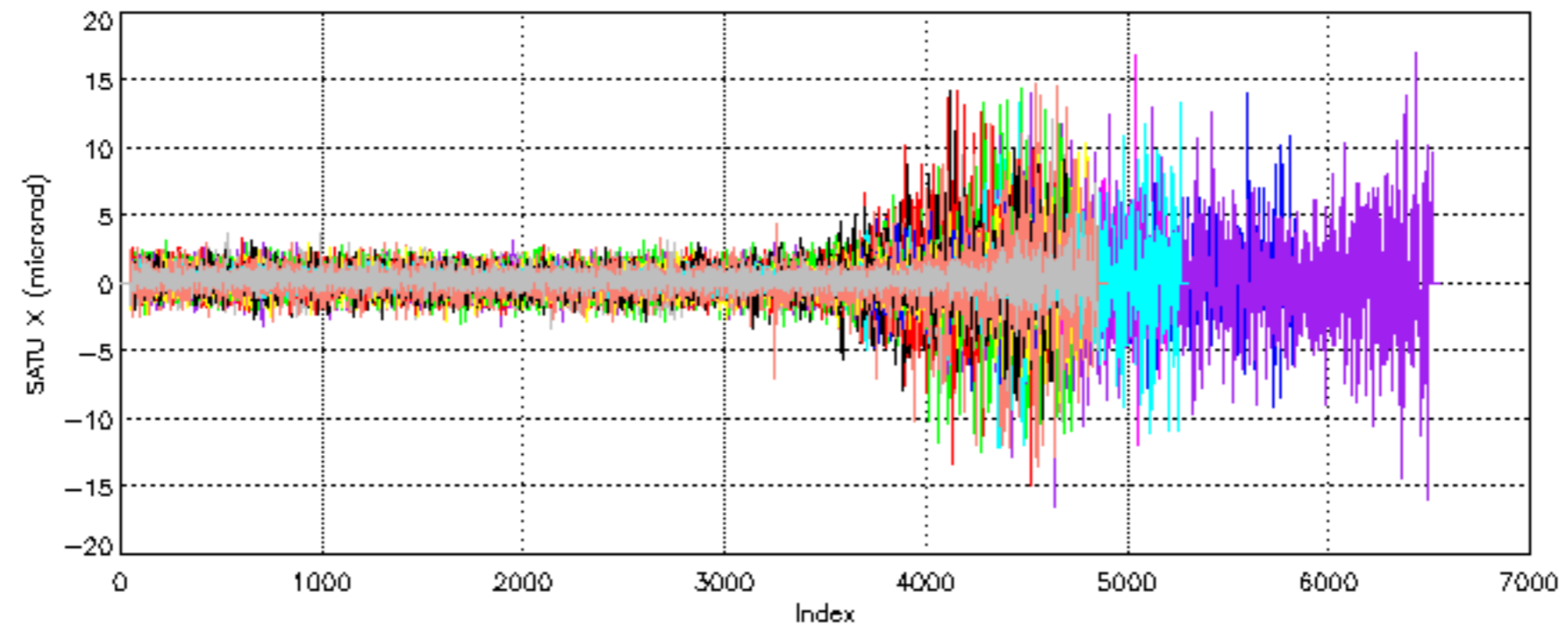


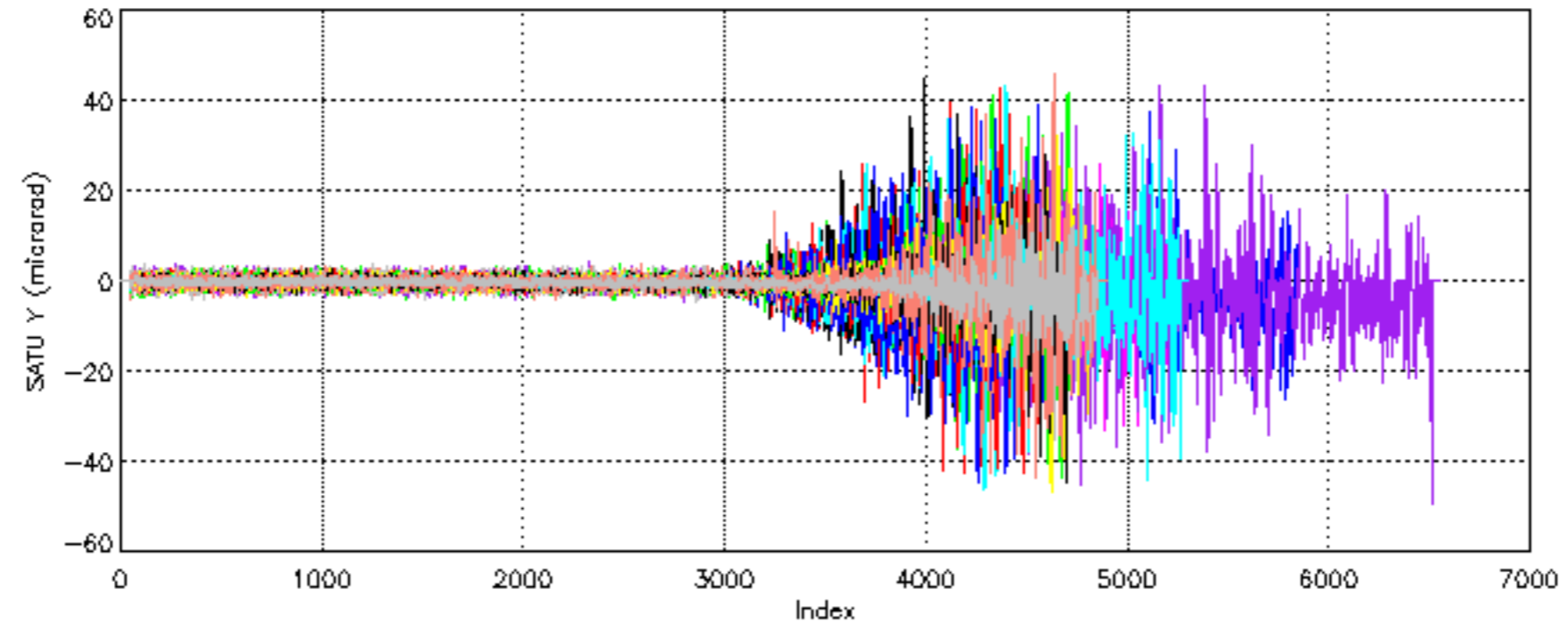
Percentage of saturation errors per profile

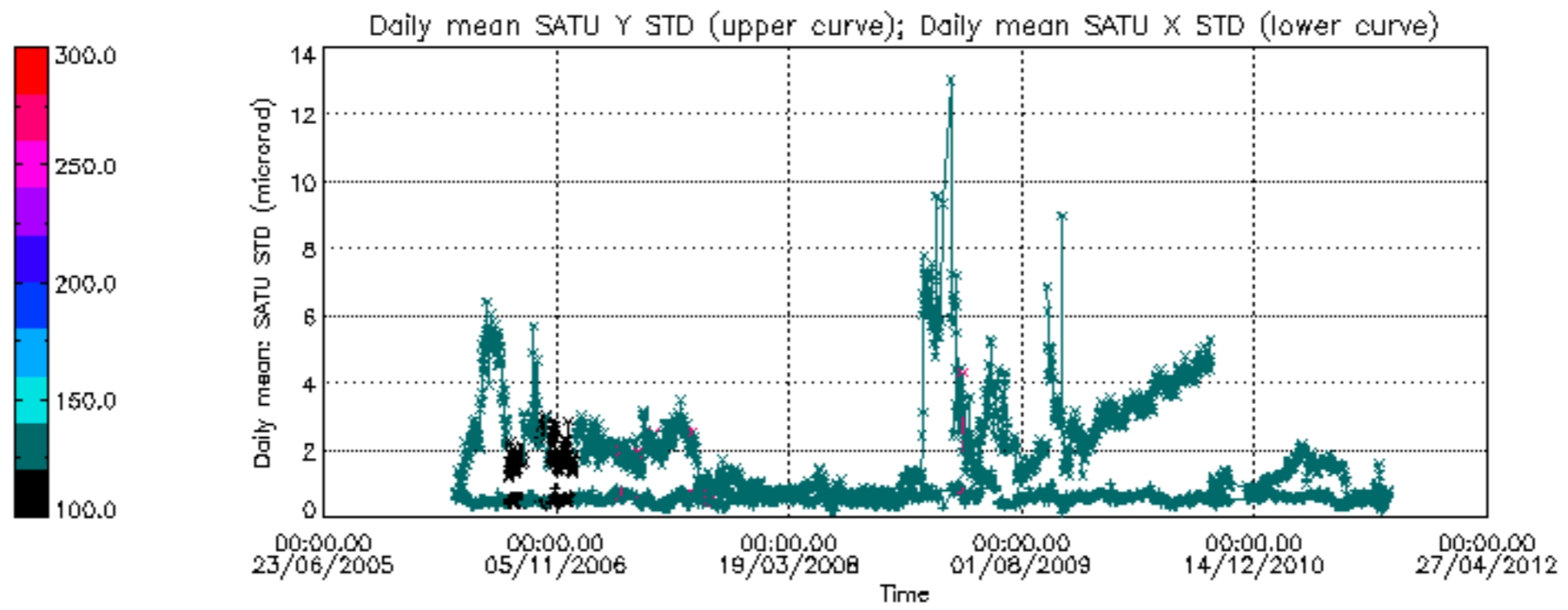


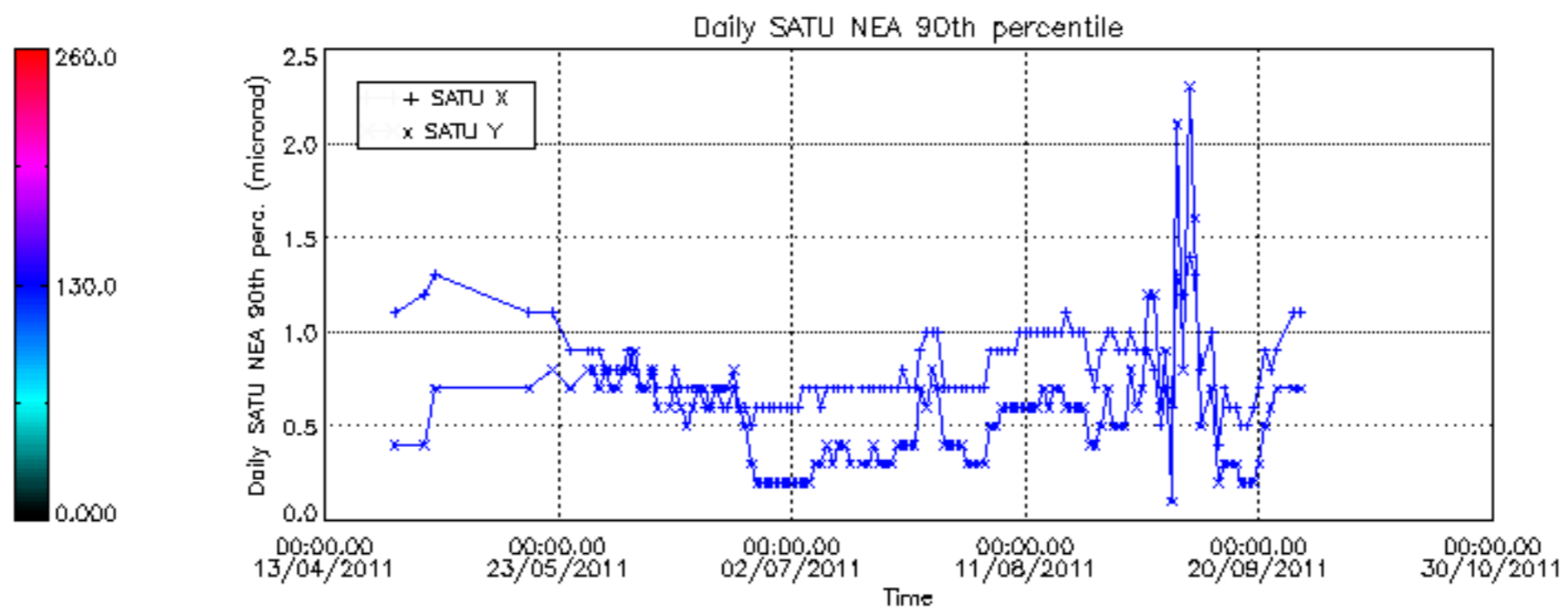
Tangent altitude at which the star is lost











/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

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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
6; 2472.7; 02-SEP-2011 04:55:36; Bright; 42.5; 164; 44Eta Peg ; 2.95; 5400;occ; 85; 0;49717

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2; 1330.3; 02-SEP-2011 21:18:53; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;49727
3; 3100.4; 02-SEP-2011 21:48:23; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49727

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2; 976.7; 02-SEP-2011 22:53:14; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49728
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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2; -1112.2; 02-SEP-2011 07:16:19; Dark ; 40.0; 8; 10Alp CMI ; 0.40; 6500;occ; 80; 0;49718
3; -644.7; 02-SEP-2011 07:24:07; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;49718
4; -564.8; 02-SEP-2011 07:25:26; Dark ; 51.0; 47; 2Bet CMA ; 1.98; 28000;occ; 102; 0;49718
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2; 4781.3; 02-SEP-2011 08:54:33; Dark ; 54.5; 44; 24Gam Gem ; 1.93; 11000;occ; 109; 0;49719
3; 5370.0; 02-SEP-2011 09:04:21; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;49719
4; 5450.0; 02-SEP-2011 09:05:41; Dark ; 50.0; 47; 2Bet CMA ; 1.98; 28000;occ; 100; 0;49719
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2; -563.1; 02-SEP-2011 10:45:56; Dark ; 47.5; 47; 2Bet CMA ; 1.98; 28000;occ; 95; 0;49720
3; 972.8; 02-SEP-2011 11:11:32; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;49721
4; 1329.0; 02-SEP-2011 11:17:28; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;49721
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2; 3104.0; 02-SEP-2011 11:47:03; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;49721
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
5; 6987.3; 02-SEP-2011 12:51:46; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;49722
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2; -561.5; 02-SEP-2011 14:06:25; Dark ; 51.5; 47; 2Bet CMA ; 1.98; 28000;occ; 103; 0;49722
3; 973.8; 02-SEP-2011 14:32:01; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;49723
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3; -560.7; 02-SEP-2011 15:46:40; Dark ; 52.0; 47; 2Bet CMA ; 1.98; 28000;occ; 104; 0;49723
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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
4; 5454.3; 02-SEP-2011 17:26:55; Dark ; 51.5; 47; 2Bet CMA ; 1.98; 28000;occ; 103; 0;49724
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2; 1883.3; 02-SEP-2011 18:07:38; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49725
3; 3101.7; 02-SEP-2011 18:27:57; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;49725
4; 4784.1; 02-SEP-2011 18:55:59; Dark ; 53.5; 44; 24Gam Gem ; 1.93; 11000;occ; 107; 0;49725
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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2; 1330.1; 02-SEP-2011 19:38:39; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49726
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
7; 5535.7; 02-SEP-2011 20:48:45; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 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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2; -476.6; 03-SEP-2011 01:49:28; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;49729
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; 1331.9; 03-SEP-2011 05:40:05; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;49732
4; 1883.3; 03-SEP-2011 05:49:16; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;49732
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3; 1883.5; 03-SEP-2011 20:51:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49741
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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
4; 1334.4; 03-SEP-2011 22:22:27; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;49742
5; 1883.4; 03-SEP-2011 22:31:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49742
6; 3091.7; 03-SEP-2011 22:51:44; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49742
7; 4909.9; 03-SEP-2011 23:22:02; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;49742
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3; 1334.6; 04-SEP-2011 00:02:41; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49743
4; 3091.0; 04-SEP-2011 00:31:57; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49743
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2; 2464.7; 03-SEP-2011 12:39:53; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;49736
3; 4907.9; 03-SEP-2011 13:20:36; Dark ; 50.5; 8; 10Alp CMi ; 0.40; 6500;occ; 101; 0;49736
4; 5541.5; 03-SEP-2011 13:31:10; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;49736
5; 6995.5; 03-SEP-2011 13:55:24; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;49737
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2; -1224.9; 03-SEP-2011 14:58:52; Dark ; 52.0; 44; 24Gam Gem ; 1.93; 11000;occ; 104; 0;49737
3; -1105.7; 03-SEP-2011 15:00:51; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;49737
4; -631.7; 03-SEP-2011 15:08:45; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;49737
5; 982.2; 03-SEP-2011 15:35:39; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;49738
6; 1333.3; 03-SEP-2011 15:41:30; Dark ; 30.0; 18; 24Alp PsA ; 1.17; 9700;occ; 60; 0;49738
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3; 3094.1; 03-SEP-2011 16:10:51; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49738
4; 5383.0; 03-SEP-2011 16:48:59; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;49738
5; 5542.6; 03-SEP-2011 16:51:39; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;49738
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3; 5383.7; 03-SEP-2011 18:29:14; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;49739
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5; 6997.3; 03-SEP-2011 18:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;49740
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3; 1883.4; 03-SEP-2011 19:11:08; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;49740
4; 3092.7; 03-SEP-2011 19:31:17; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;49740
5; 5384.4; 03-SEP-2011 20:09:29; Dark ; 55.0; 1; 9Alp CMA ; -1.44; 11000;occ; 110; 0;49740

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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
9; 3044.9; 09-SEP-2011 22:30:58; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;49828
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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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9; 3133.4; 13-SEP-2011 00:02:41; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;49872
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8; 3117.6; 14-SEP-2011 22:48:57; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49900
9; 4458.6; 14-SEP-2011 23:11:18; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;49900
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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
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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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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
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11; 2518.4; 15-SEP-2011 05:19:53; Bright; 33.0; 58; 21Alp And ; 2.07; 11000;occ; 66; 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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5; 3006.1; 15-SEP-2011 15:29:25; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49910
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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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6; 731.5; 17-SEP-2011 03:36:37; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;49932
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9; 2161.6; 17-SEP-2011 04:00:27; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49932
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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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8; 2494.0; 17-SEP-2011 22:28:33; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;49943
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8; 2493.4; 18-SEP-2011 00:08:47; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;49944
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6; 732.5; 17-SEP-2011 06:57:06; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;49934
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12; 7086.6; 17-SEP-2011 10:23:14; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;49936
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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
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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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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
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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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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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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
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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
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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
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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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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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5; 3089.4; 18-SEP-2011 13:40:34; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49952
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2; 1523.9; 18-SEP-2011 18:15:11; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;49955
3; 2158.8; 18-SEP-2011 18:25:46; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49955
4; 2385.8; 18-SEP-2011 18:29:33; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49955
5; 2487.2; 18-SEP-2011 18:31:14; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;49955
6; 2987.3; 18-SEP-2011 18:39:34; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49955
7; 3088.0; 18-SEP-2011 18:41:15; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49955
8; 4465.9; 18-SEP-2011 19:04:13; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49955
9; 5009.5; 18-SEP-2011 19:13:17; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;49955
10; 5585.1; 18-SEP-2011 19:22:52; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;49955
11; 5704.4; 18-SEP-2011 19:24:51; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;49955
12; 5937.4; 18-SEP-2011 19:28:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49955
13; 7094.3; 18-SEP-2011 19:48:01; Dark ; 11.0; 84; Alp Phe ; 2.40; 4500;occ; 22; 0;49956
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2; -307.8; 18-SEP-2011 22:45:21; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;49957
3; -74.7; 18-SEP-2011 22:49:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49957
4; 1080.8; 18-SEP-2011 23:08:30; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49958
5; 1524.1; 18-SEP-2011 23:15:53; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49958
6; 2158.3; 18-SEP-2011 23:26:27; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49958
7; 2385.2; 18-SEP-2011 23:30:14; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;49958
8; 2485.3; 18-SEP-2011 23:31:54; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;49958
9; 2986.0; 18-SEP-2011 23:40:15; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49958
10; 3086.4; 18-SEP-2011 23:41:55; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;49958
11; 4466.0; 19-SEP-2011 00:04:55; Bright; 58.5; 24; 66Alp Gem ; 1.58; 10200;occ; 117; 0;49958
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3; -73.7; 19-SEP-2011 00:29:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49958
4; 1081.2; 19-SEP-2011 00:48:44; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49959
5; 1524.3; 19-SEP-2011 00:56:07; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;49959
6; 2158.1; 19-SEP-2011 01:06:41; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49959
7; 2385.0; 19-SEP-2011 01:10:28; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49959
8; 2484.8; 19-SEP-2011 01:12:08; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;49959
9; 2985.8; 19-SEP-2011 01:20:29; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49959
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11; 4466.3; 19-SEP-2011 01:45:09; Bright; 49.0; 24; 66Alp Gem ; 1.58; 10200;occ; 98; 0;49959
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4; 1081.6; 19-SEP-2011 02:28:58; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;49960
5; 1524.4; 19-SEP-2011 02:36:21; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;49960
6; 2158.2; 19-SEP-2011 02:46:55; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49960
7; 2384.9; 19-SEP-2011 02:50:42; Bright; 56.0; 93; 53Bet Peg ; 2.52; 3100;occ; 112; 0;49960
8; 2484.4; 19-SEP-2011 02:52:21; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;49960
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4; -422.7; 19-SEP-2011 03:44:08; Dark ; 70.0; 1; 9Alp CMA ;-1.44; 11000;occ; 140; 0;49960
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6; 1082.0; 19-SEP-2011 04:09:13; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49961
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9; 2384.9; 19-SEP-2011 04:30:56; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;49961
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5; -70.7; 19-SEP-2011 05:30:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49961
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5; -69.6; 19-SEP-2011 07:10:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49962
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5; 3084.0; 19-SEP-2011 08:03:03; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;49963
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8; 5595.1; 19-SEP-2011 08:44:54; Dark ; 65.0; 1; 9Alp CMA ;-1.44; 11000;occ; 130; 0;49963
9; 5712.0; 19-SEP-2011 08:46:51; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;49963
10; 5945.3; 19-SEP-2011 08:50:44; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49963
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4; 2983.9; 19-SEP-2011 09:41:37; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49964
5; 3083.5; 19-SEP-2011 09:43:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49964
6; 4467.0; 19-SEP-2011 10:06:20; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;49964
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9; 5713.0; 19-SEP-2011 10:27:06; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;49964
10; 5946.3; 19-SEP-2011 10:30:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49964
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3; 2481.7; 19-SEP-2011 11:13:28; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;49965
4; 2983.6; 19-SEP-2011 11:21:50; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49965
5; 3082.8; 19-SEP-2011 11:23:29; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;49965
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4; 2156.9; 19-SEP-2011 22:49:41; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49972
5; 2382.9; 19-SEP-2011 22:53:27; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;49972
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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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10; 2382.2; 20-SEP-2011 07:14:36; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;49977
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4; 110.8; 20-SEP-2011 23:19:04; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;49987
5; 1091.3; 20-SEP-2011 23:35:25; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49987
6; 1528.5; 20-SEP-2011 23:42:42; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;49987
7; 2380.7; 20-SEP-2011 23:56:54; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49987

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10; 3071.9; 21-SEP-2011 00:08:26; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;49987
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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9; 5776.4; 20-SEP-2011 16:32:20; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;49982
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10; 2380.3; 21-SEP-2011 04:57:36; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49990
11; 2468.9; 21-SEP-2011 04:59:04; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;49990
12; 2974.0; 21-SEP-2011 05:07:29; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49990
13; 3070.5; 21-SEP-2011 05:09:06; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 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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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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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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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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1; 1540.0; 26-SEP-2011 16:41:59; Dark ; 20.0; 52; 16Bet Cet ; 2.04; 4500;occ; 40; 0;50069
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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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; -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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5; 6154.3; 27-SEP-2011 15:41:54; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;50083
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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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 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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 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; 2644.1; 29-SEP-2011 23:31:19; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;50116
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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; 2642.8; 30-SEP-2011 02:51:45; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;50118
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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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