

GOMOS Daily Report 13-SEP-2010

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	15SEP2010 07:26:01
Data source version	GOMOS/5.01
Start time of products	13SEP2010 08:59:55
Stop time of products	13SEP2010 13:17:06
Store outputs in DB	Yes
Nb of level 1b prods	14
Nb of prods with errors	0

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

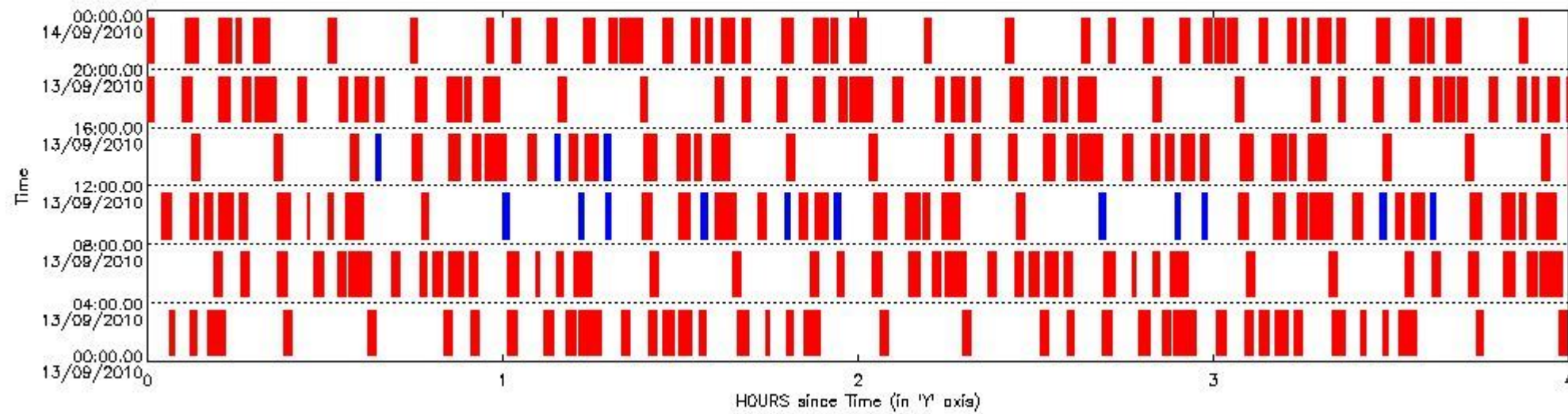
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
13-SEP-2010 00:03:36	24GamOri	27	44630
13-SEP-2010 00:07:12	DSA1060	0	44630
13-SEP-2010 00:10:04	19BetOri	7	44630
13-SEP-2010 00:23:03	The1Eri	157	44631
13-SEP-2010 00:37:03	16BetCet	52	44631
13-SEP-2010 00:50:03	88GamPeg	140	44631
13-SEP-2010 00:54:33	21AlpAnd	58	44631
13-SEP-2010 01:00:37	43BetAnd	53	44631
13-SEP-2010 01:06:45	57Gam1And	73	44631
13-SEP-2010 01:10:44	23GamPer	160	44631
13-SEP-2010 01:12:46	33AlpPer	35	44631
13-SEP-2010 01:14:41	39DelPer	175	44631
13-SEP-2010 01:19:59	13AlpAur	6	44631
13-SEP-2010 01:24:39	37TheAur	107	44631
13-SEP-2010 01:27:01	3lotAur	114	44631

13-SEP-2010 01:29:38	12BetTau	28	44631
13-SEP-2010 01:32:59	24GamGem	44	44631
13-SEP-2010 01:39:27	58AlpOri	14	44631
13-SEP-2010 01:44:16	24GamOri	27	44631
13-SEP-2010 01:47:50	DSA1060	0	44631
13-SEP-2010 01:50:43	19BetOri	7	44631
13-SEP-2010 02:03:40	The1Eri	157	44632
13-SEP-2010 02:17:39	16BetCet	52	44632
13-SEP-2010 02:30:38	88GamPeg	140	44632
13-SEP-2010 02:35:08	21AlpAnd	58	44632
13-SEP-2010 02:41:12	43BetAnd	53	44632
13-SEP-2010 02:47:20	57Gam1And	73	44632
13-SEP-2010 02:51:19	23GamPer	160	44632
13-SEP-2010 02:53:20	33AlpPer	35	44632
13-SEP-2010 02:55:16	39DelPer	175	44632
13-SEP-2010 03:00:34	13AlpAur	6	44632
13-SEP-2010 03:05:15	37TheAur	107	44632
13-SEP-2010 03:07:37	3lotAur	114	44632
13-SEP-2010 03:10:14	12BetTau	28	44632
13-SEP-2010 03:13:35	24GamGem	44	44632
13-SEP-2010 03:20:05	58AlpOri	14	44632
13-SEP-2010 03:24:55	24GamOri	27	44632
13-SEP-2010 03:28:28	DSA1060	0	44632
13-SEP-2010 03:31:22	19BetOri	7	44632
13-SEP-2010 03:44:17	The1Eri	157	44633
13-SEP-2010 03:58:15	16BetCet	52	44633
13-SEP-2010 04:11:13	88GamPeg	140	44633
13-SEP-2010 04:15:43	21AlpAnd	58	44633
13-SEP-2010 04:21:46	43BetAnd	53	44633
13-SEP-2010 04:27:54	57Gam1And	73	44633
13-SEP-2010 04:31:54	23GamPer	160	44633
13-SEP-2010 04:33:55	33AlpPer	35	44633
13-SEP-2010 04:35:51	39DelPer	175	44633
13-SEP-2010 04:41:10	13AlpAur	6	44633
13-SEP-2010 04:45:51	37TheAur	107	44633
13-SEP-2010 04:48:13	3lotAur	114	44633
13-SEP-2010 04:50:51	12BetTau	28	44633
13-SEP-2010 04:54:12	24GamGem	44	44633
13-SEP-2010 05:00:42	58AlpOri	14	44633
13-SEP-2010 05:05:35	24GamOri	27	44633
13-SEP-2010 05:09:06	DSA1060	0	44633
13-SEP-2010 05:12:01	19BetOri	7	44633
13-SEP-2010 05:24:54	The1Eri	157	44634
13-SEP-2010 05:38:51	16BetCet	52	44634
13-SEP-2010 05:51:48	88GamPeg	140	44634
13-SEP-2010 05:56:18	21AlpAnd	58	44634
13-SEP-2010 06:02:21	43BetAnd	53	44634
13-SEP-2010 06:08:28	57Gam1And	73	44634
13-SEP-2010 06:12:29	23GamPer	160	44634
13-SEP-2010 06:14:30	33AlpPer	35	44634
13-SEP-2010 06:16:26	39DelPer	175	44634
13-SEP-2010 06:21:45	13AlpAur	6	44634
13-SEP-2010 06:26:26	37TheAur	107	44634
13-SEP-2010 06:28:49	3lotAur	114	44634
13-SEP-2010 06:31:27	12BetTau	28	44634
13-SEP-2010 06:34:48	24GamGem	44	44634
13-SEP-2010 06:41:20	58AlpOri	14	44634
13-SEP-2010 06:46:14	24GamOri	27	44634
13-SEP-2010 06:49:43	DSA1060	0	44634

13-SEP-2010 06:52:41	19BetOri	7	44634
13-SEP-2010 07:05:31	The1Eri	157	44635
13-SEP-2010 07:19:28	16BetCet	52	44635
13-SEP-2010 07:32:23	88GamPeg	140	44635
13-SEP-2010 07:36:54	21AlpAnd	58	44635
13-SEP-2010 07:42:55	43BetAnd	53	44635
13-SEP-2010 07:49:02	57Gam1And	73	44635
13-SEP-2010 07:53:04	23GamPer	160	44635
13-SEP-2010 07:55:05	33AlpPer	35	44635
13-SEP-2010 07:57:00	39DelPer	175	44635
13-SEP-2010 08:02:21	13AlpAur	6	44635
13-SEP-2010 08:07:02	37TheAur	107	44635
13-SEP-2010 08:09:25	3lotAur	114	44635
13-SEP-2010 08:12:04	12BetTau	28	44635
13-SEP-2010 08:15:25	24GamGem	44	44635
13-SEP-2010 08:21:58	58AlpOri	14	44635
13-SEP-2010 08:26:54	24GamOri	27	44635
13-SEP-2010 08:30:21	DSA1060	0	44635
13-SEP-2010 08:33:20	19BetOri	7	44635
13-SEP-2010 08:46:07	The1Eri	157	44636
13-SEP-2010 09:23:30	43BetAnd	53	44636
13-SEP-2010 09:29:37	57Gam1And	73	44636
13-SEP-2010 09:35:40	33AlpPer	35	44636
13-SEP-2010 09:37:35	39DelPer	175	44636
13-SEP-2010 09:42:56	13AlpAur	6	44636
13-SEP-2010 09:50:01	3lotAur	114	44636
13-SEP-2010 09:52:40	12BetTau	28	44636
13-SEP-2010 10:02:35	58AlpOri	14	44636
13-SEP-2010 10:08:00	50ZetOri	33	44636
13-SEP-2010 10:10:59	DSA1060	0	44636
13-SEP-2010 10:13:59	19BetOri	7	44636
13-SEP-2010 10:26:44	The1Eri	157	44637
13-SEP-2010 11:04:04	43BetAnd	53	44637
13-SEP-2010 11:10:11	57Gam1And	73	44637
13-SEP-2010 11:14:14	23GamPer	160	44637
13-SEP-2010 11:16:14	33AlpPer	35	44637
13-SEP-2010 11:18:10	39DelPer	175	44637
13-SEP-2010 11:23:32	13AlpAur	6	44637
13-SEP-2010 11:30:37	3lotAur	114	44637
13-SEP-2010 11:33:17	12BetTau	28	44637
13-SEP-2010 11:43:13	58AlpOri	14	44637
13-SEP-2010 11:48:38	50ZetOri	33	44637
13-SEP-2010 11:51:37	DSA1060	0	44637
13-SEP-2010 11:54:38	19BetOri	7	44637
13-SEP-2010 12:07:21	The1Eri	157	44638
13-SEP-2010 12:21:16	16BetCet	52	44638
13-SEP-2010 12:34:09	88GamPeg	140	44638
13-SEP-2010 12:44:38	43BetAnd	53	44638
13-SEP-2010 12:50:45	57Gam1And	73	44638
13-SEP-2010 12:54:48	23GamPer	160	44638
13-SEP-2010 12:56:49	33AlpPer	35	44638
13-SEP-2010 12:58:45	39DelPer	175	44638
13-SEP-2010 13:04:07	13AlpAur	6	44638
13-SEP-2010 13:11:13	3lotAur	114	44638
13-SEP-2010 13:13:53	12BetTau	28	44638
13-SEP-2010 13:23:50	58AlpOri	14	44638
13-SEP-2010 13:29:16	50ZetOri	33	44638
13-SEP-2010 13:32:15	DSA1060	0	44638
13-SEP-2010 13:35:17	19BetOri	7	44638

13-SEP-2010 13:47:58	The1Eri	157	44639
13-SEP-2010 14:01:52	16BetCet	52	44639
13-SEP-2010 14:14:44	88GamPeg	140	44639
13-SEP-2010 14:19:14	21AlpAnd	58	44639
13-SEP-2010 14:25:13	43BetAnd	53	44639
13-SEP-2010 14:31:19	57Gam1And	73	44639
13-SEP-2010 14:35:23	23GamPer	160	44639
13-SEP-2010 14:37:24	33AlpPer	35	44639
13-SEP-2010 14:39:19	39DelPer	175	44639
13-SEP-2010 14:44:42	13AlpAur	6	44639
13-SEP-2010 14:49:26	37TheAur	107	44639
13-SEP-2010 14:51:49	3IotAur	114	44639
13-SEP-2010 14:54:30	12BetTau	28	44639
13-SEP-2010 14:57:51	24GamGem	44	44639
13-SEP-2010 15:04:28	58AlpOri	14	44639
13-SEP-2010 15:09:54	50ZetOri	33	44639
13-SEP-2010 15:12:53	DSA1060	0	44639
13-SEP-2010 15:15:57	19BetOri	7	44639
13-SEP-2010 15:28:35	The1Eri	157	44640
13-SEP-2010 15:42:28	16BetCet	52	44640
13-SEP-2010 15:55:19	88GamPeg	140	44640
13-SEP-2010 15:59:49	21AlpAnd	58	44640
13-SEP-2010 16:05:47	43BetAnd	53	44640
13-SEP-2010 16:11:54	57Gam1And	73	44640
13-SEP-2010 16:15:58	23GamPer	160	44640
13-SEP-2010 16:17:59	33AlpPer	35	44640
13-SEP-2010 16:19:54	39DelPer	175	44640
13-SEP-2010 16:25:18	13AlpAur	6	44640
13-SEP-2010 16:32:25	3IotAur	114	44640
13-SEP-2010 16:35:06	12BetTau	28	44640
13-SEP-2010 16:38:28	24GamGem	44	44640
13-SEP-2010 16:45:06	58AlpOri	14	44640
13-SEP-2010 16:50:33	50ZetOri	33	44640
13-SEP-2010 16:53:31	DSA1060	0	44640
13-SEP-2010 16:56:36	19BetOri	7	44640
13-SEP-2010 17:09:12	The1Eri	157	44641
13-SEP-2010 17:23:04	16BetCet	52	44641
13-SEP-2010 17:35:55	88GamPeg	140	44641
13-SEP-2010 17:40:24	21AlpAnd	58	44641
13-SEP-2010 17:46:22	43BetAnd	53	44641
13-SEP-2010 17:52:28	57Gam1And	73	44641
13-SEP-2010 17:56:33	23GamPer	160	44641
13-SEP-2010 17:58:33	33AlpPer	35	44641
13-SEP-2010 18:00:29	39DelPer	175	44641
13-SEP-2010 18:05:53	13AlpAur	6	44641
13-SEP-2010 18:13:01	3IotAur	114	44641
13-SEP-2010 18:15:43	12BetTau	28	44641
13-SEP-2010 18:19:04	24GamGem	44	44641
13-SEP-2010 18:25:43	58AlpOri	14	44641
13-SEP-2010 18:31:11	50ZetOri	33	44641
13-SEP-2010 18:34:08	DSA1060	0	44641
13-SEP-2010 18:37:15	19BetOri	7	44641
13-SEP-2010 18:49:49	The1Eri	157	44642
13-SEP-2010 19:03:40	16BetCet	52	44642
13-SEP-2010 19:16:30	88GamPeg	140	44642
13-SEP-2010 19:21:00	21AlpAnd	58	44642
13-SEP-2010 19:26:56	43BetAnd	53	44642
13-SEP-2010 19:33:02	57Gam1And	73	44642
13-SEP-2010 19:37:08	23GamPer	160	44642

13-SEP-2010 19:39:08	33AlpPer	35	44642
13-SEP-2010 19:41:04	39DelPer	175	44642
13-SEP-2010 19:46:29	13AlpAur	6	44642
13-SEP-2010 19:51:13	37TheAur	107	44642
13-SEP-2010 19:53:37	3IotAur	114	44642
13-SEP-2010 19:56:20	12BetTau	28	44642
13-SEP-2010 19:59:41	24GamGem	44	44642
13-SEP-2010 20:06:21	58AlpOri	14	44642
13-SEP-2010 20:11:49	50ZetOri	33	44642
13-SEP-2010 20:14:46	DSA1060	0	44642
13-SEP-2010 20:17:55	19BetOri	7	44642
13-SEP-2010 20:30:26	The1Eri	157	44643
13-SEP-2010 20:44:16	16BetCet	52	44643
13-SEP-2010 20:57:05	88GamPeg	140	44643
13-SEP-2010 21:01:35	21AlpAnd	58	44643
13-SEP-2010 21:07:31	43BetAnd	53	44643
13-SEP-2010 21:13:36	57Gam1And	73	44643
13-SEP-2010 21:17:43	23GamPer	160	44643
13-SEP-2010 21:19:43	33AlpPer	35	44643
13-SEP-2010 21:21:39	39DelPer	175	44643
13-SEP-2010 21:27:04	13AlpAur	6	44643
13-SEP-2010 21:31:49	37TheAur	107	44643
13-SEP-2010 21:34:14	3IotAur	114	44643
13-SEP-2010 21:36:56	12BetTau	28	44643
13-SEP-2010 21:40:18	24GamGem	44	44643
13-SEP-2010 21:46:59	58AlpOri	14	44643
13-SEP-2010 21:52:28	50ZetOri	33	44643
13-SEP-2010 21:55:24	DSA1060	0	44643
13-SEP-2010 21:58:34	19BetOri	7	44643
13-SEP-2010 22:11:03	The1Eri	157	44644
13-SEP-2010 22:24:52	16BetCet	52	44644
13-SEP-2010 22:37:40	88GamPeg	140	44644
13-SEP-2010 22:42:10	21AlpAnd	58	44644
13-SEP-2010 22:48:05	43BetAnd	53	44644
13-SEP-2010 22:54:11	57Gam1And	73	44644
13-SEP-2010 22:58:18	23GamPer	160	44644
13-SEP-2010 23:00:18	33AlpPer	35	44644
13-SEP-2010 23:02:13	39DelPer	175	44644
13-SEP-2010 23:07:40	13AlpAur	6	44644
13-SEP-2010 23:12:25	37TheAur	107	44644
13-SEP-2010 23:14:50	3IotAur	114	44644
13-SEP-2010 23:17:33	12BetTau	28	44644
13-SEP-2010 23:20:54	24GamGem	44	44644
13-SEP-2010 23:27:36	58AlpOri	14	44644
13-SEP-2010 23:33:06	50ZetOri	33	44644
13-SEP-2010 23:36:02	DSA1060	0	44644
13-SEP-2010 23:39:13	19BetOri	7	44644
13-SEP-2010 23:51:40	The1Eri	157	44645

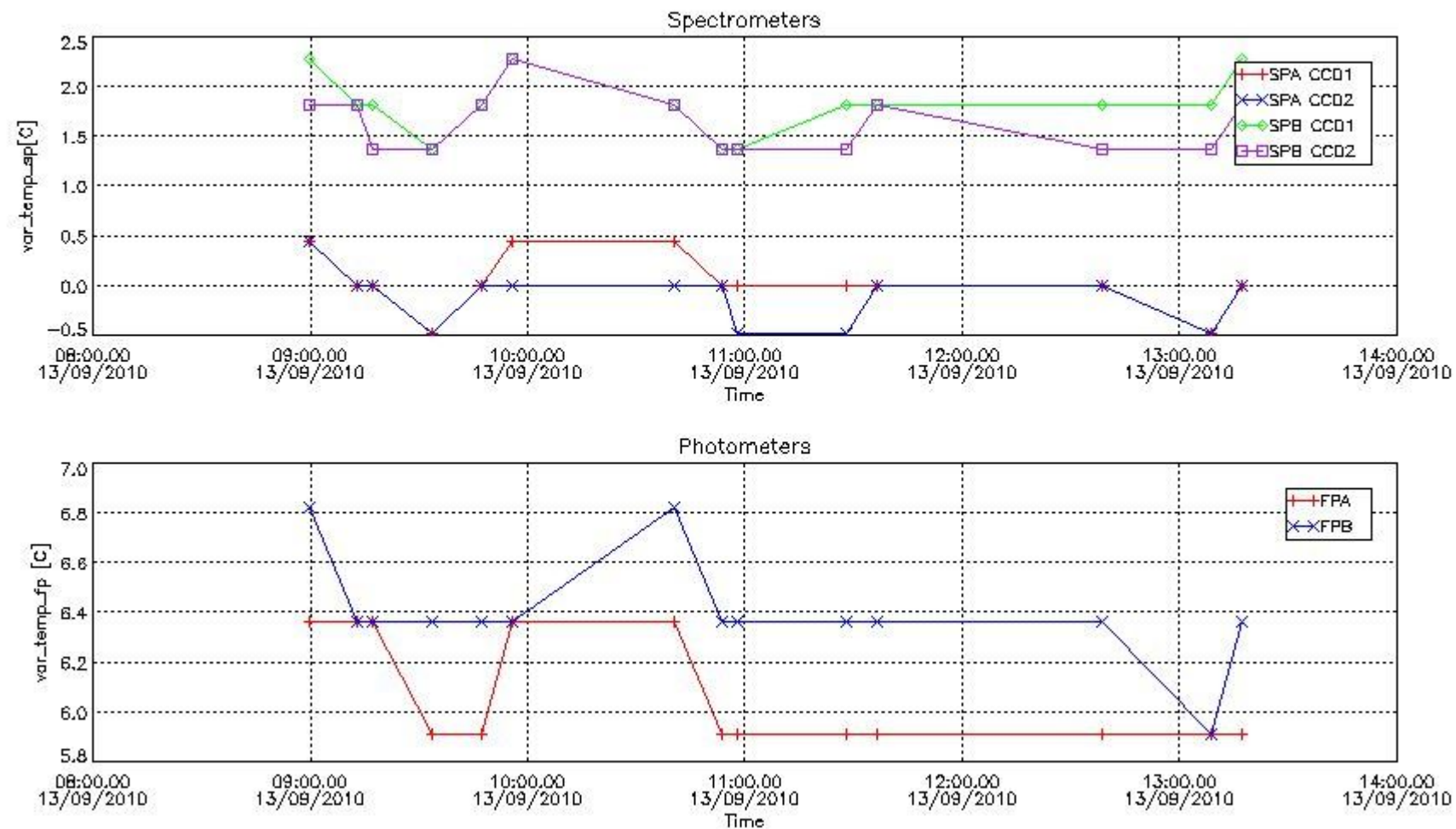
2.4 Summary of processed GOM_TRA_1P products

!Warning: No products without errors in DARK limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDK20100913_085955_000000652092_00494_44636_0292.N1	13-SEP-2010 08:59:55	Twilight	64.500	52	16Bet Cet	2.0370	4500.0	129	44636	No
2	GOM_TRA_1PNPDK20100913_091250_000000522092_00494_44636_0332.N1	13-SEP-2010 09:12:50	Bright	51.500	140	88Gam Peg	2.8340	26000.	103	44636	No
3	GOM_TRA_1PNPDK20100913_091720_000000522092_00494_44636_0333.N1	13-SEP-2010 09:17:20	Bright	52.000	58	21Alp And	2.0730	11000.	104	44636	No
4	GOM_TRA_1PNPDK20100913_093330_000000602092_00494_44636_0334.N1	13-SEP-2010 09:33:30	Bright	59.500	160	23Gam Per	2.9300	4700.0	119	44636	No
5	GOM_TRA_1PNPDK20100913_094730_000000572092_00494_44636_0335.N1	13-SEP-2010 09:47:30	Bright	57.000	107	37The Aur	2.6490	11000.	114	44636	No
6	GOM_TRA_1PNPDK20100913_095553_000000622092_00494_44636_0336.N1	13-SEP-2010 09:55:53	Straylight	61.500	44	24Gam Gem	1.9280	11000.	123	44636	No

7	GOM_TRA_1PNPDK20100913_104031_000000632092_00495_44637_0337.N1	13-SEP-2010 10:40:31	Twilight_stray	62.500	52	16Bet Cet	2.0370	4500.0	125	44637	No
8	GOM_TRA_1PNPDK20100913_105325_000000522092_00495_44637_0367.N1	13-SEP-2010 10:53:25	Bright	51.500	140	88Gam Peg	2.8340	26000.	103	44637	No
9	GOM_TRA_1PNPDK20100913_105755_000000522092_00495_44637_0368.N1	13-SEP-2010 10:57:55	Bright	52.000	58	21Alp And	2.0730	11000.	104	44637	No
10	GOM_TRA_1PNPDK20100913_112805_000000542092_00495_44637_0369.N1	13-SEP-2010 11:28:05	Bright	54.000	107	37The Aur	2.6490	11000.	108	44637	No
11	GOM_TRA_1PNPDK20100913_113629_000000592092_00495_44637_0370.N1	13-SEP-2010 11:36:29	Straylight	59.000	44	24Gam Gem	1.9280	11000.	118	44637	No
12	GOM_TRA_1PNPDK20100913_123831_000000492092_00496_44638_0402.N1	13-SEP-2010 12:38:31	Bright	49.000	58	21Alp And	2.0730	11000.	98	44638	No
13	GOM_TRA_1PNPDK20100913_130841_000000592092_00496_44638_0403.N1	13-SEP-2010 13:08:41	Bright	59.000	107	37The Aur	2.6490	11000.	118	44638	No
14	GOM_TRA_1PNPDK20100913_131706_000000632092_00496_44638_0404.N1	13-SEP-2010 13:17:06	Straylight	62.500	44	24Gam Gem	1.9280	11000.	125	44638	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_1PNPDK20100913_085955_000000652092_00494_44636_0292.N1	DC map used
GOM_TRA_1PNPDK20100913_091250_000000522092_00494_44636_0332.N1	DC map used

GOM_TRA_1PNPDK20100913_091720_000000522092_00494_44636_0333.N1	DC map used
GOM_TRA_1PNPDK20100913_093330_000000602092_00494_44636_0334.N1	DC map used
GOM_TRA_1PNPDK20100913_094730_000000572092_00494_44636_0335.N1	DC map used
GOM_TRA_1PNPDK20100913_095553_000000622092_00494_44636_0336.N1	DC map used
GOM_TRA_1PNPDK20100913_104031_000000632092_00495_44637_0337.N1	DC map used
GOM_TRA_1PNPDK20100913_105325_000000522092_00495_44637_0367.N1	DC map used
GOM_TRA_1PNPDK20100913_105755_000000522092_00495_44637_0368.N1	DC map used
GOM_TRA_1PNPDK20100913_112805_000000542092_00495_44637_0369.N1	DC map used
GOM_TRA_1PNPDK20100913_113629_000000592092_00495_44637_0370.N1	DC map used
GOM_TRA_1PNPDK20100913_123831_000000492092_00496_44638_0402.N1	DC map used
GOM_TRA_1PNPDK20100913_130841_000000592092_00496_44638_0403.N1	DC map used
GOM_TRA_1PNPDK20100913_131706_000000632092_00496_44638_0404.N1	DC map used

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

No products without errors in DARK limb conditions found. No plot performed.

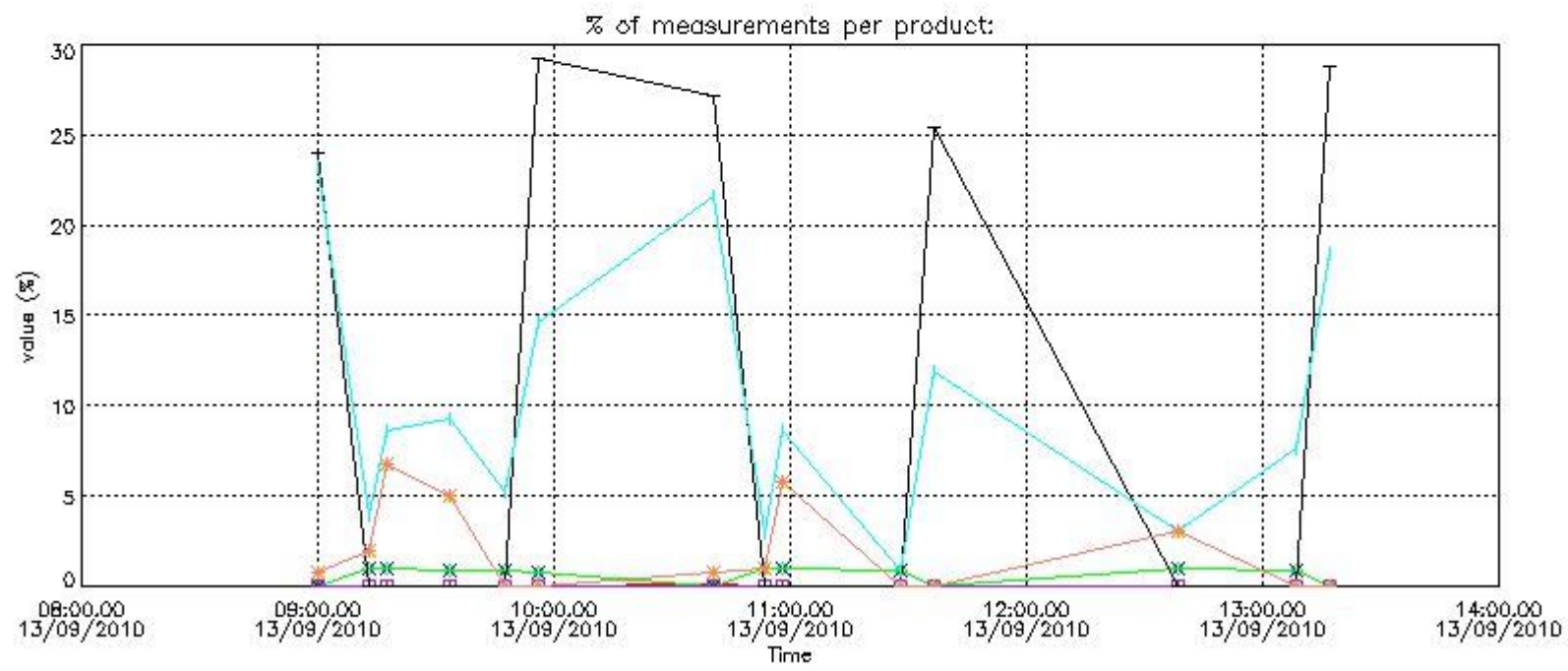
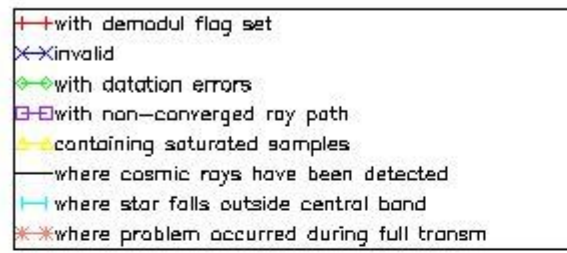
5. Demodulation flag and quality information monitoring

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.

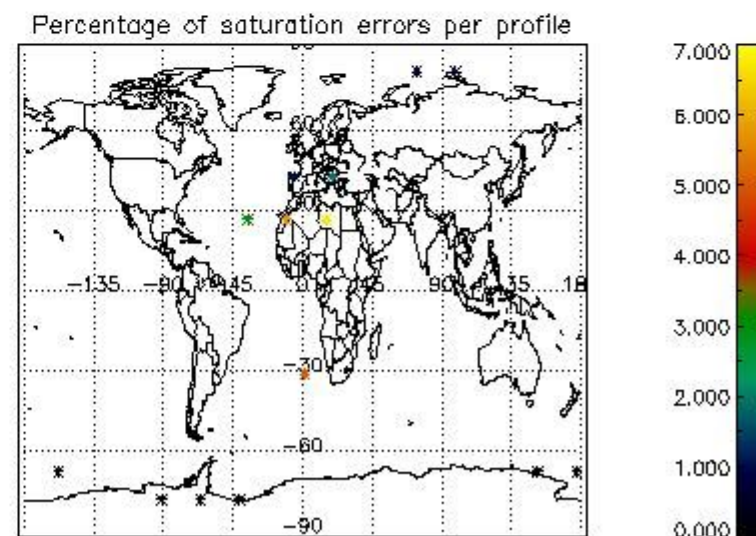
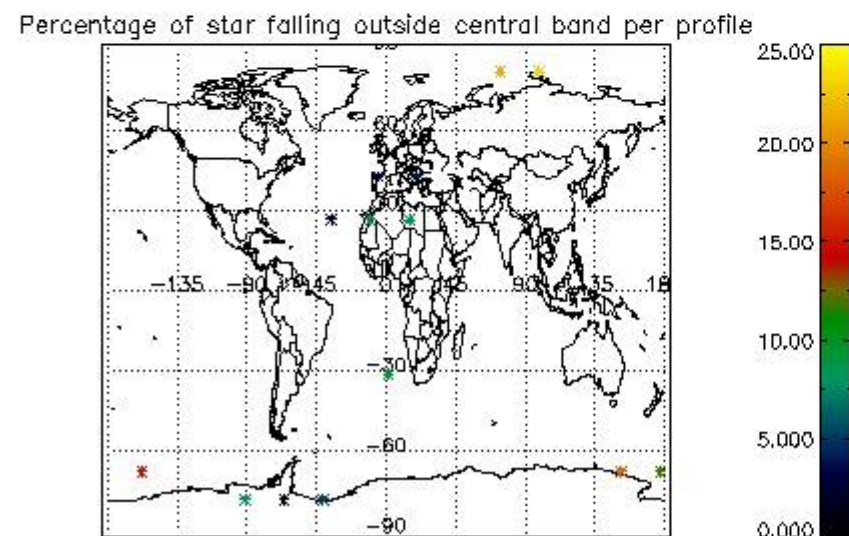
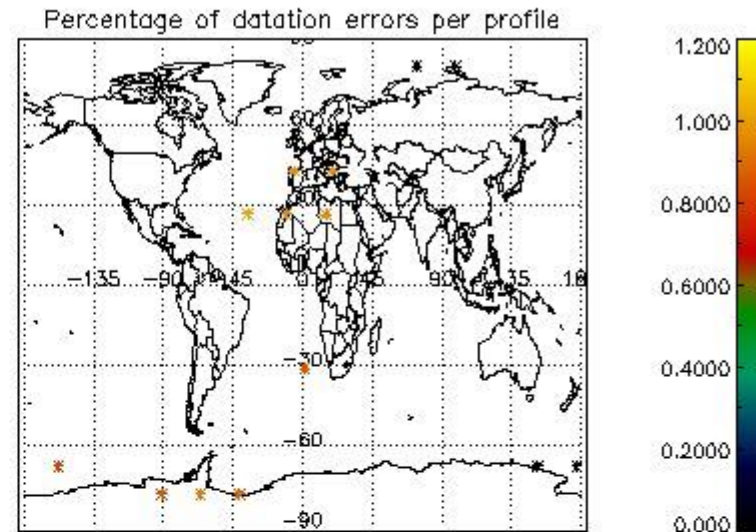
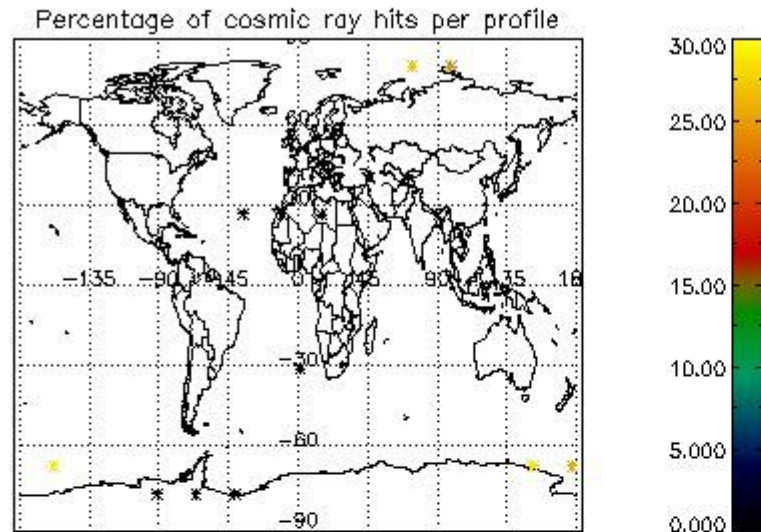
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.7143 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



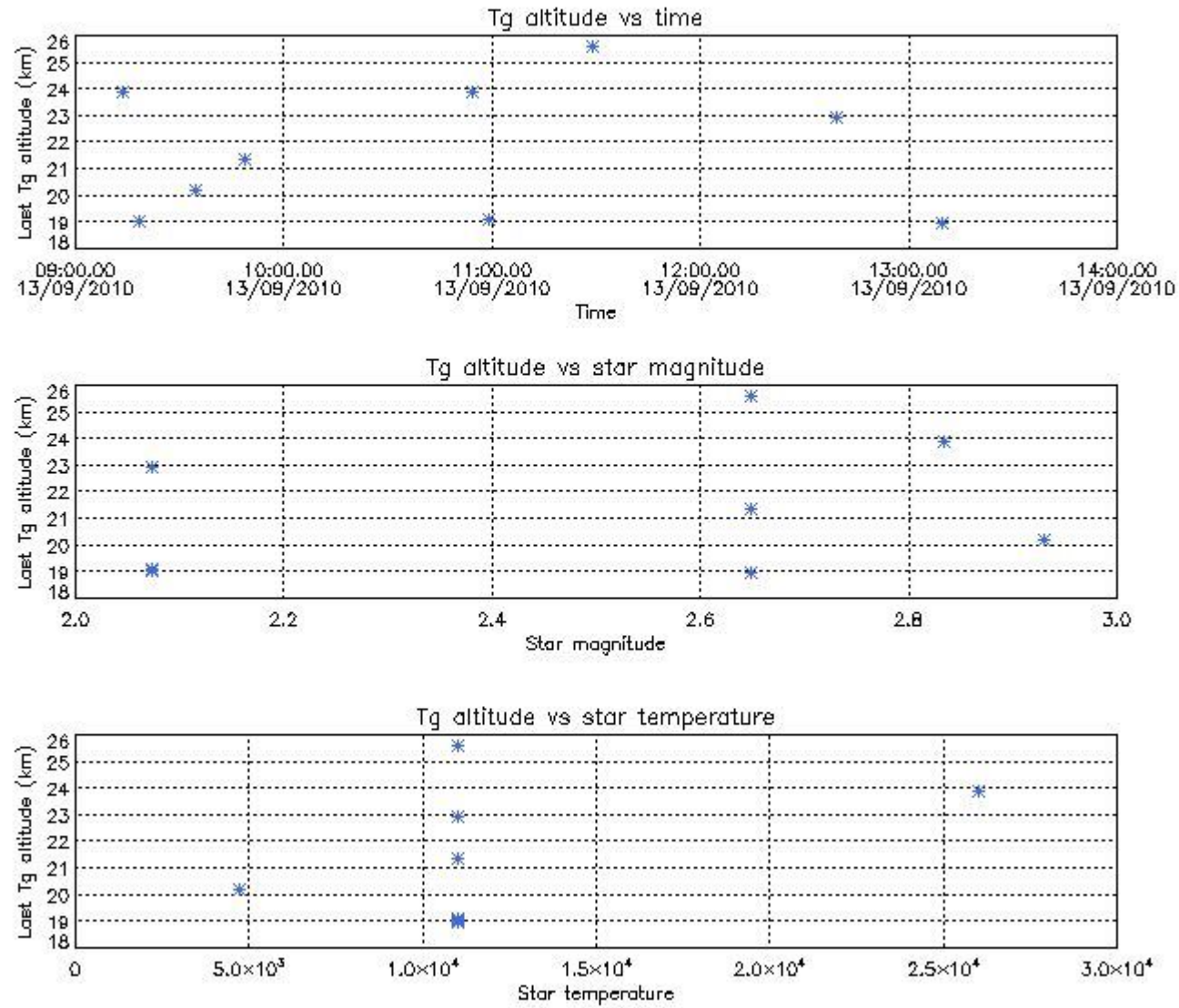
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	21.660	NaN
St. deviation:	NaN	2.5092	NaN
Maximum:	NaN	25.603	NaN
Minimum:	NaN	18.948	NaN
Number of data:	NaN	9.0000	NaN

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:	NaN	NaN	0.28511	0.042424
St. deviation:	NaN	NaN	1.1028	1.4425
Maximum:	NaN	NaN	5.7000	6.3000
Minimum:	NaN	NaN	-6.6000	-7.1000
Number of data:	NaN	NaN	11700.	11700.

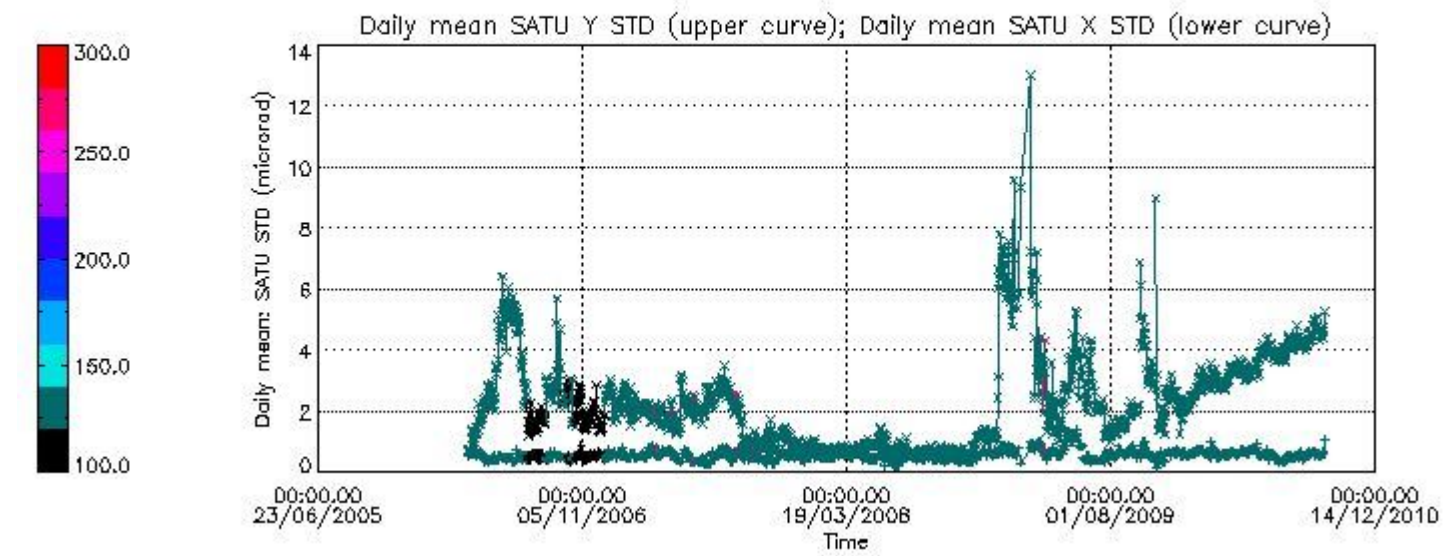
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

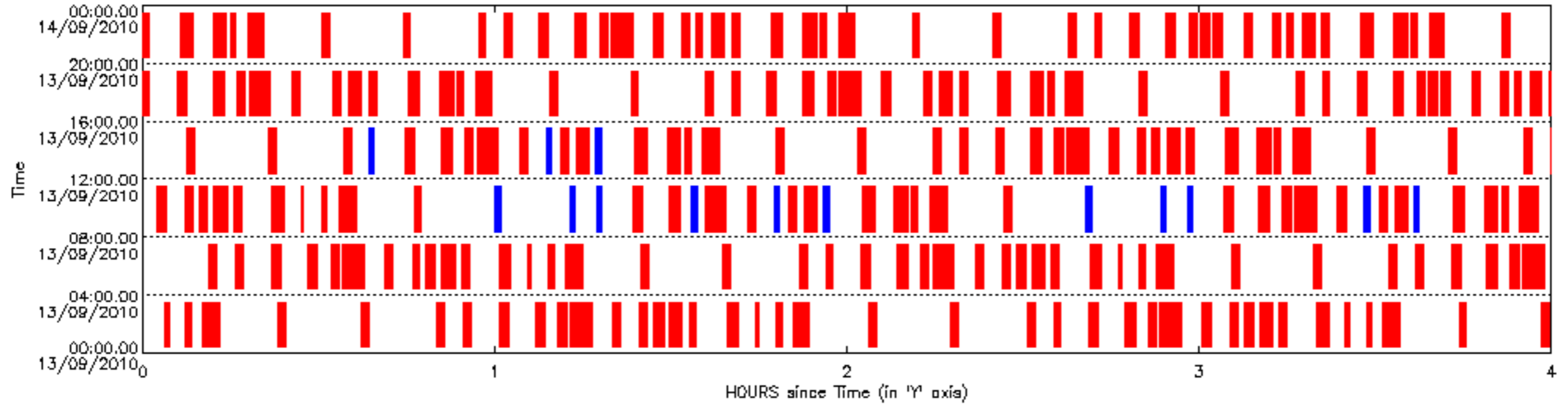
Lower curve: STD of SATU X axis

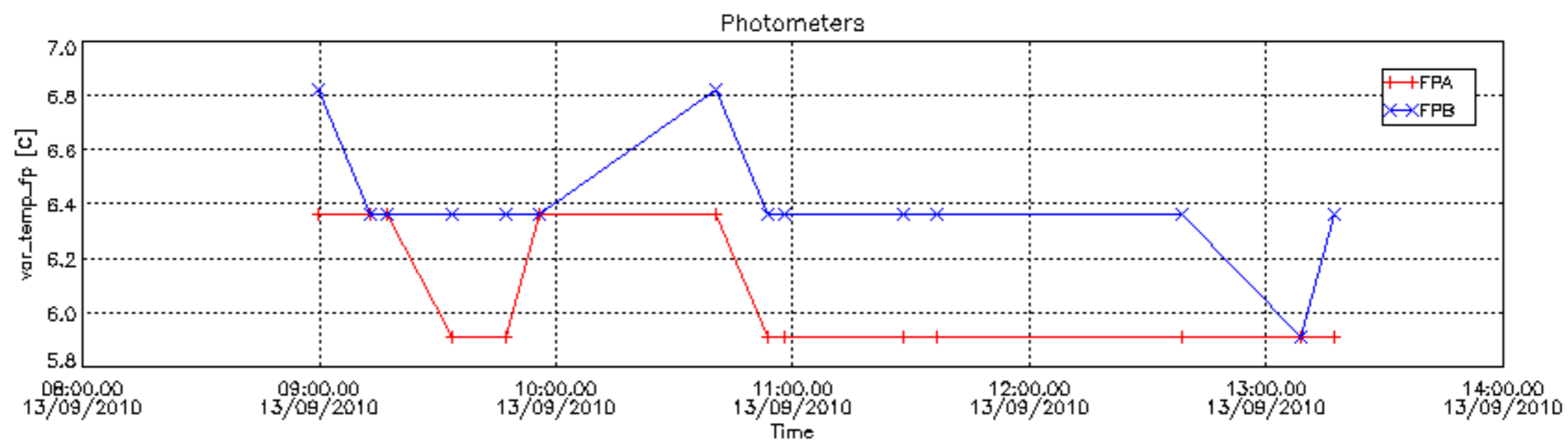
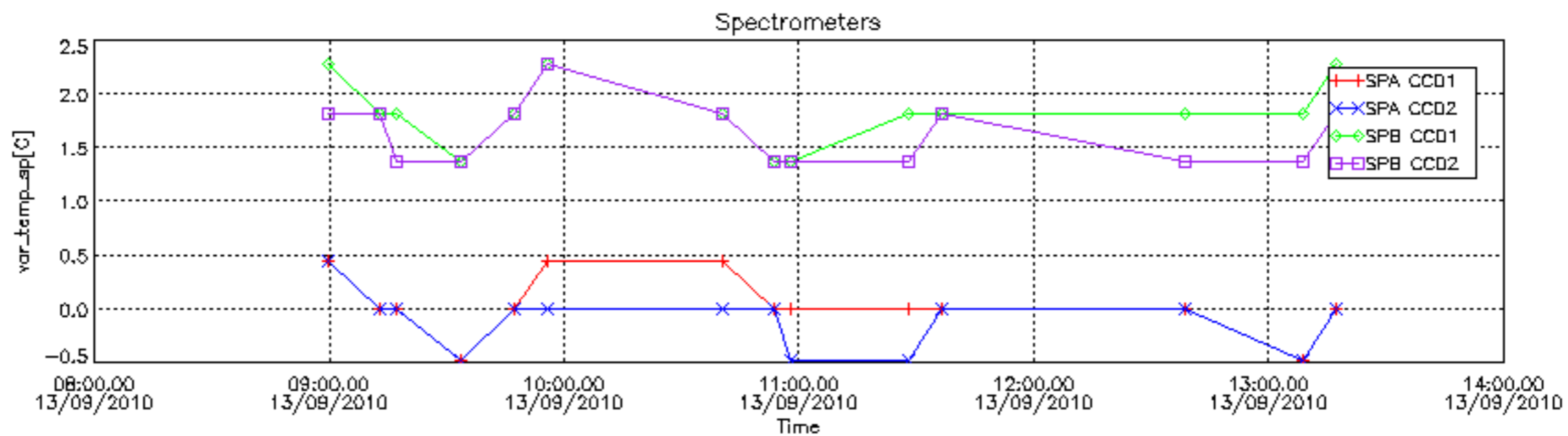


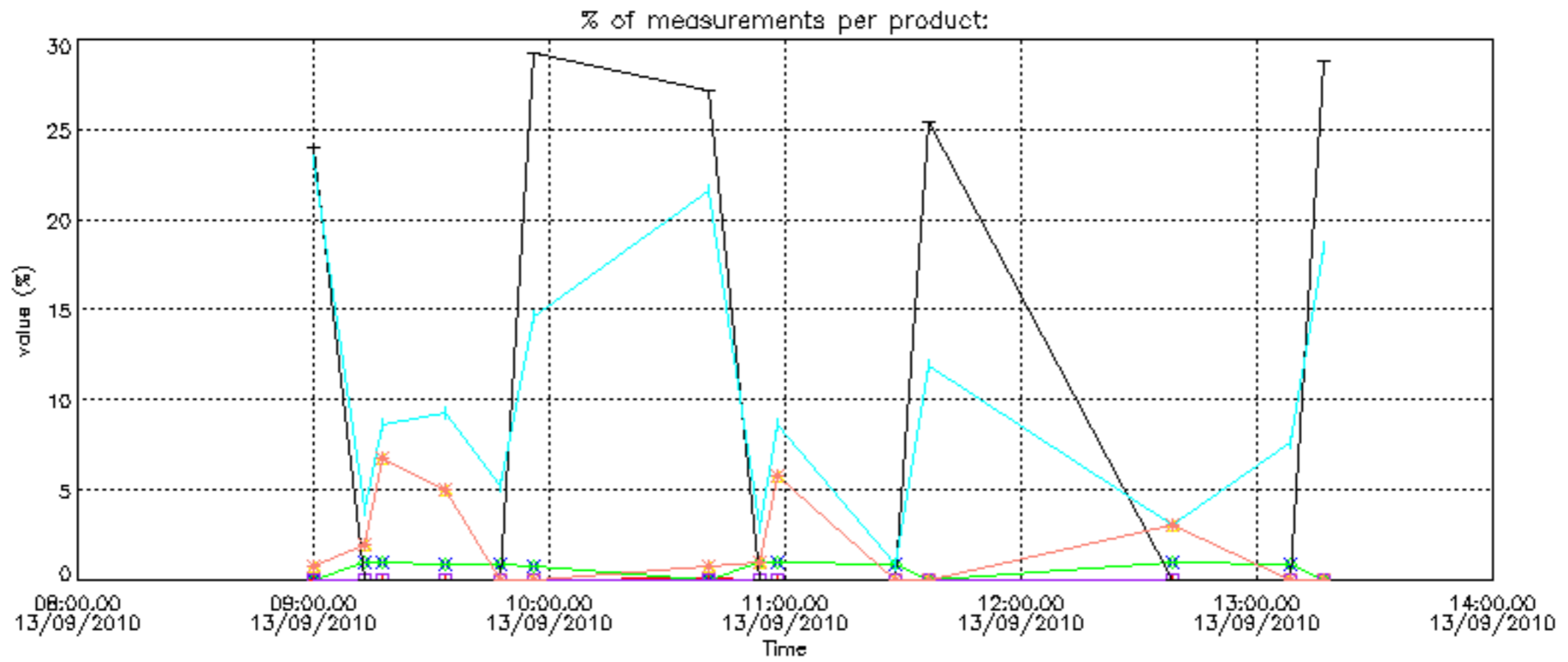
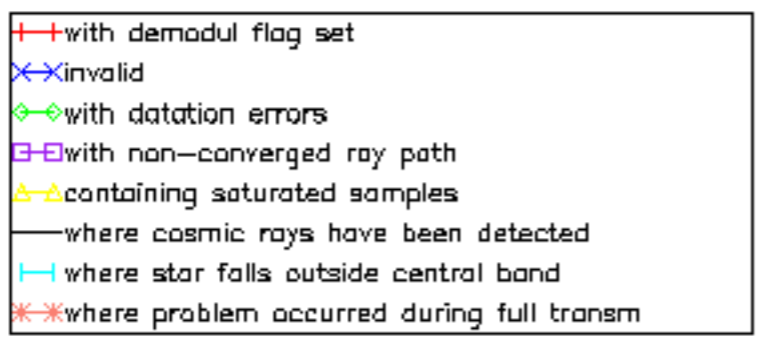
8. Auxiliary Data Files used for the production reported in section 2.4

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

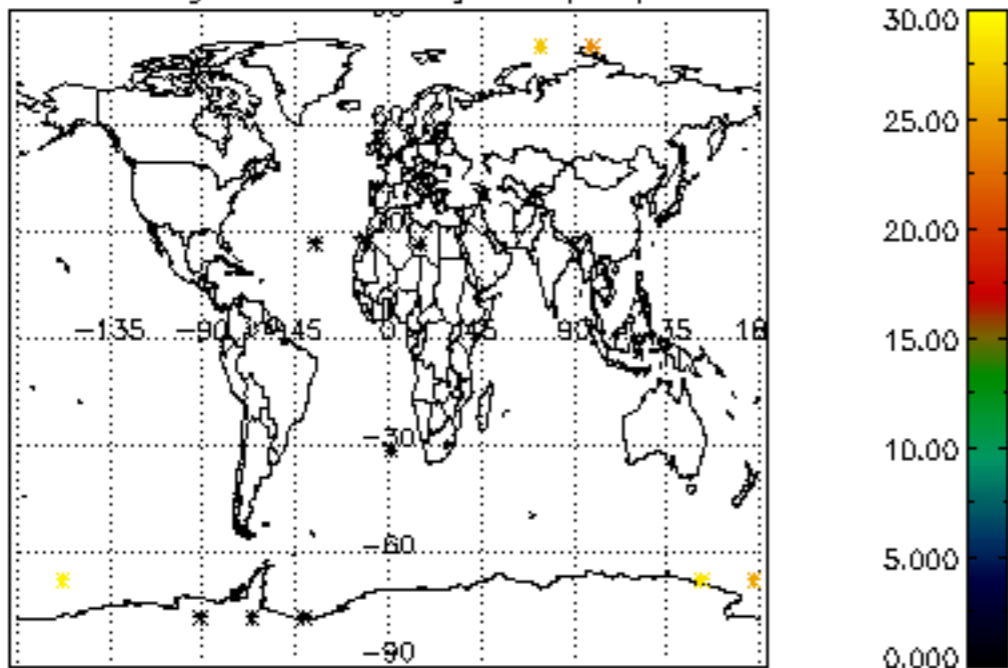
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-SEP-2010 08:59:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100906_073314_20100904_000000_20500101_000000	1	13-SEP-2010 08:59:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	13-SEP-2010 08:59:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-SEP-2010 08:59:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	13-SEP-2010 08:59:55
ECMWF_FILE	AUX_ECF_AXNECM20100912_172114_20100913_030000_20100913_150000	1	13-SEP-2010 08:59:55
ECMWF_FILE	AUX_ECF_AXNECM20100913_051612_20100913_090000_20100913_210000	2	13-SEP-2010 09:12:50
OPTIONAL_ECMWF_FILE	MISSING	1	13-SEP-2010 08:59:55
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100912_092113_20100911_194124_20100921_210736	1	13-SEP-2010 08:59:55
ORBIT_DATA_FILE	DOR_NAV_OPNPKD20100913_090116_000057382092_00494_44636_2470.N1	2	13-SEP-2010 09:12:50
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100913_091612_20100912_190946_20100922_203559	8	13-SEP-2010 10:53:25
ORBIT_DATA_FILE	DOR_NAV_OPNPKD20100913_121751_000057382092_00496_44638_2472.N1	12	13-SEP-2010 12:38:31



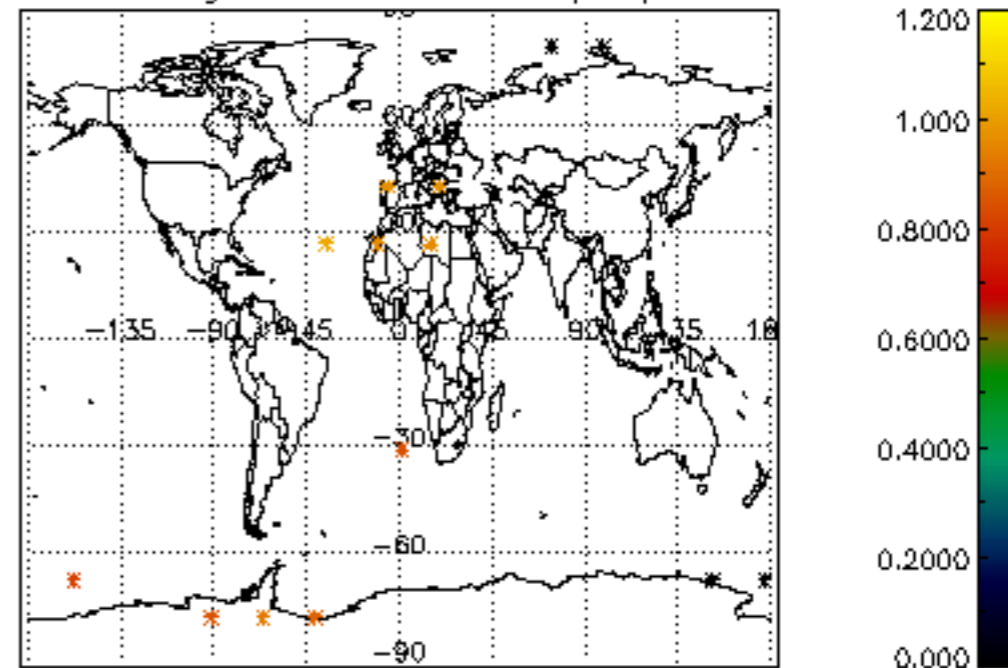




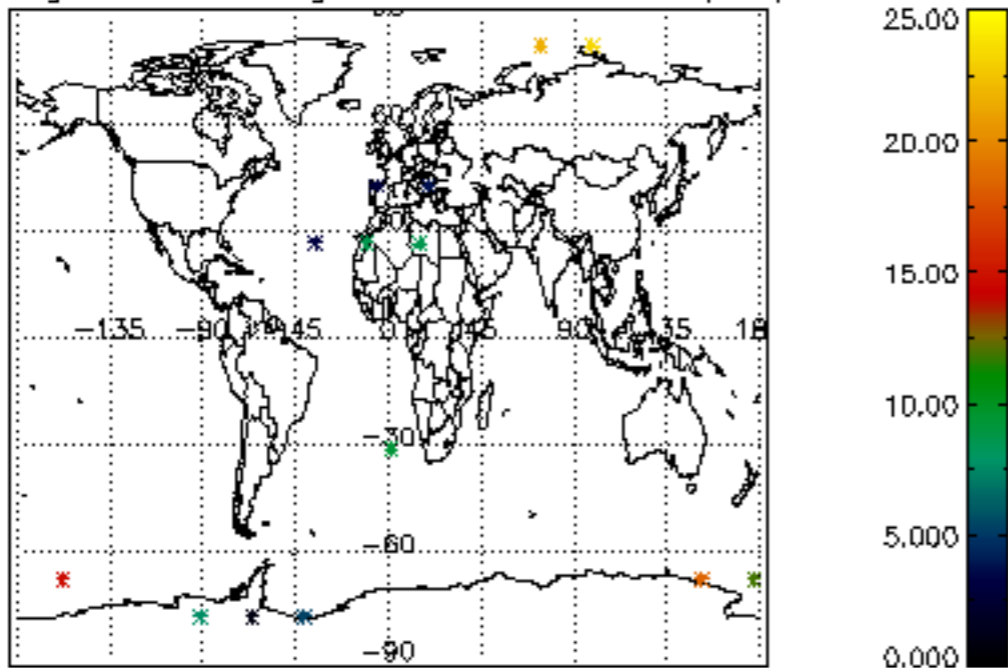
Percentage of cosmic ray hits per profile



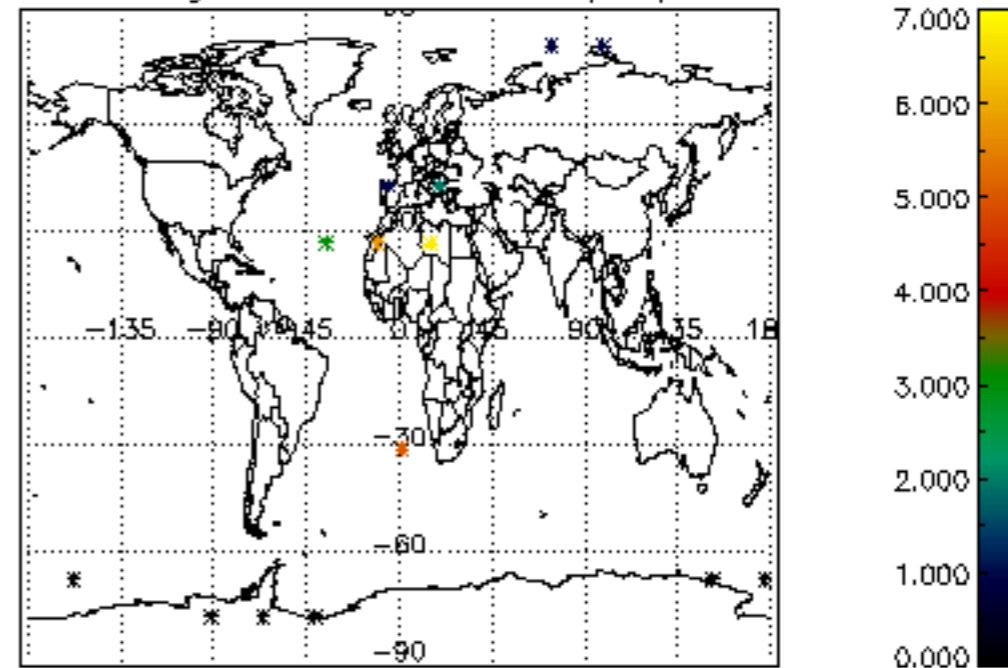
Percentage of datation errors per profile



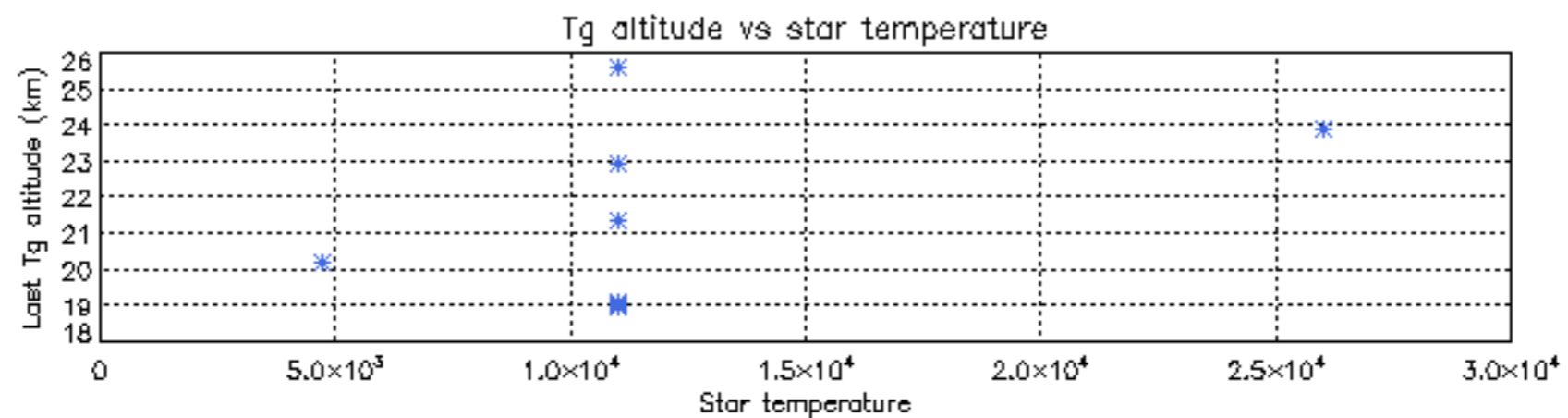
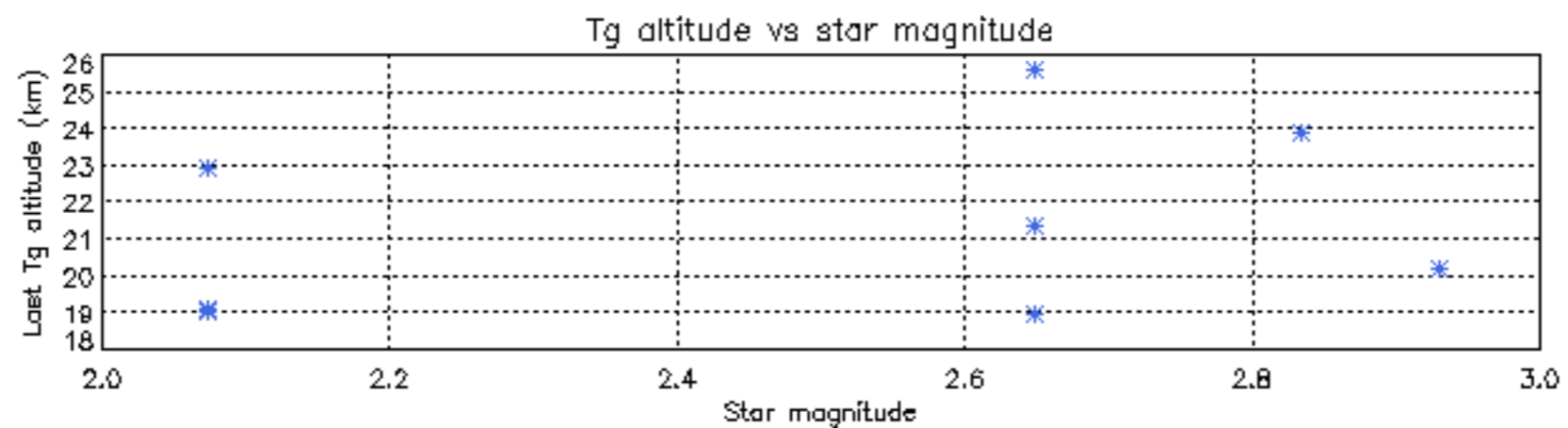
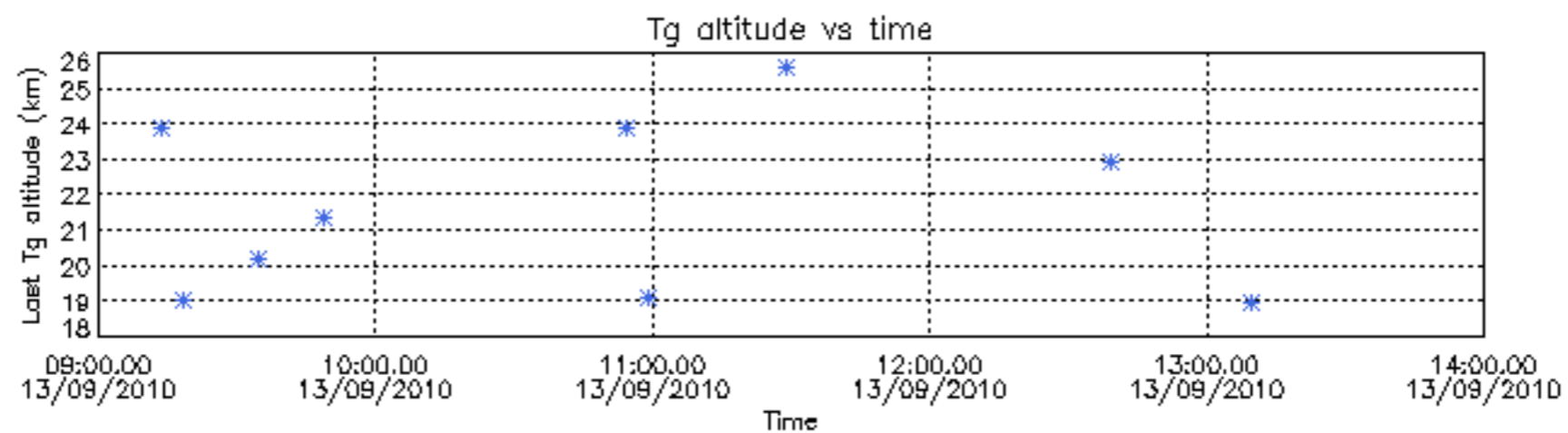
Percentage of star falling outside central band per profile

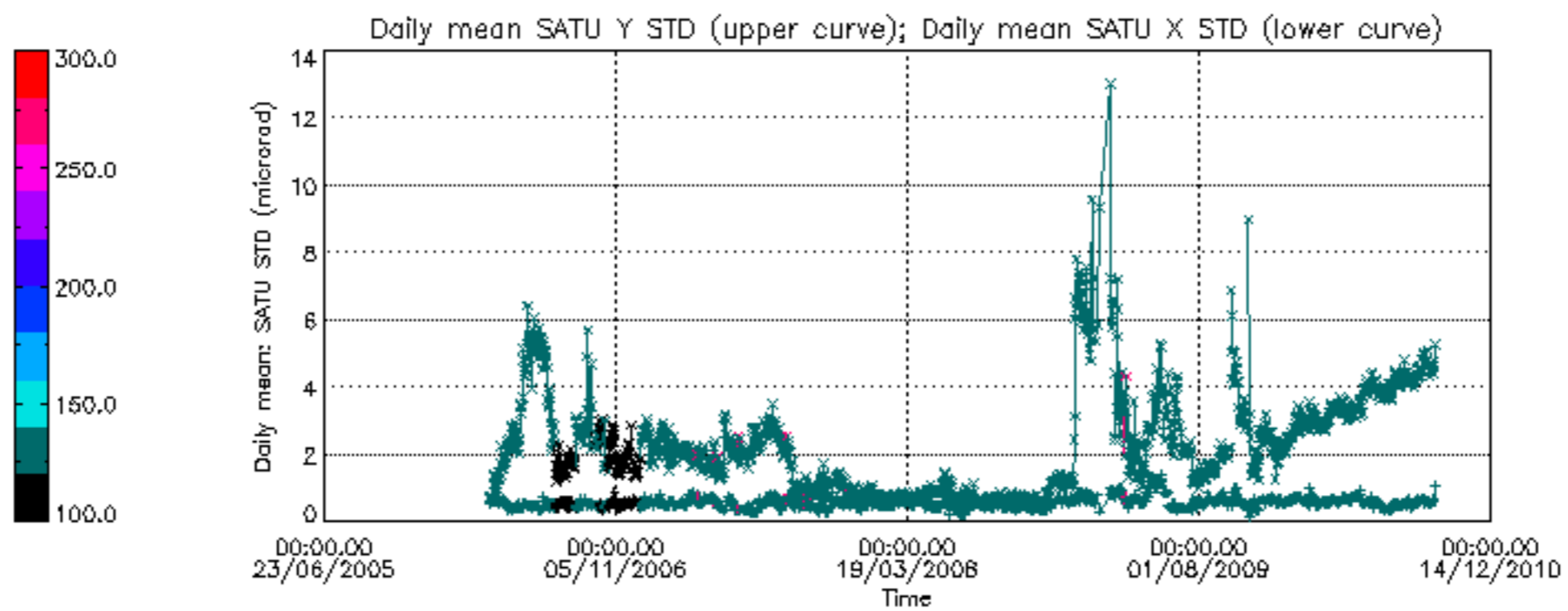


Percentage of saturation errors per profile



Tangent altitude at which the star is lost





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 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
 4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
 5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
 6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
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 2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
 3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
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 8; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
 9; 1895.5; 01-SEP-2010 02:00:47; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44460
10; 2075.4; 01-SEP-2010 02:03:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;44460
11; 2502.6; 01-SEP-2010 02:10:54; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;44460
12; 2975.7; 01-SEP-2010 02:18:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;44460
13; 3144.6; 01-SEP-2010 02:21:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;44460
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15; 4208.2; 01-SEP-2010 02:39:19; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;44460
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18; 4791.2; 01-SEP-2010 02:49:02; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;44460
19; 4913.8; 01-SEP-2010 02:51:05; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44460
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23; 5795.5; 01-SEP-2010 03:05:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44460
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25; 6638.7; 01-SEP-2010 03:19:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44461
26; 6996.5; 01-SEP-2010 03:25:48; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;44461
27; 7364.8; 01-SEP-2010 03:31:56; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;44461
28; 7931.4; 01-SEP-2010 03:41:23; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44461
29; 8111.5; 01-SEP-2010 03:44:23; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;44461
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 2; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
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 8; 3273.1; 01-SEP-2010 02:23:44; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44460
 9; 4208.2; 01-SEP-2010 02:39:19; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;44460
10; 4451.8; 01-SEP-2010 02:43:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;44460
11; 4685.8; 01-SEP-2010 02:47:17; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;44460
12; 4791.2; 01-SEP-2010 02:49:02; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;44460
13; 4913.8; 01-SEP-2010 02:51:05; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44460
14; 5372.6; 01-SEP-2010 02:58:44; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;44460
15; 5538.4; 01-SEP-2010 03:01:30; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;44460
16; 5680.7; 01-SEP-2010 03:03:52; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;44460
17; 5795.5; 01-SEP-2010 03:05:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44460
18; 6562.2; 01-SEP-2010 03:18:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44461
19; 6638.7; 01-SEP-2010 03:19:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44461
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21; 7364.8; 01-SEP-2010 03:31:56; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;44461
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23; 8111.5; 01-SEP-2010 03:44:23; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;44461
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 3; 3272.4; 01-SEP-2010 04:04:19; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;44461
 4; 4208.4; 01-SEP-2010 04:19:56; Bright; 48.0; 42; 34Bet Aur ; 1.90; 10200;occ; 96; 0;44461

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5; 4452.1; 01-SEP-2010 04:23:59; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;44461
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 5; 3222.0; 06-SEP-2010 08:07:48; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44535
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 7; 4462.3; 06-SEP-2010 08:28:28; Bright; 57.0; 24; 66Alp Gem ; 1.58; 10200;occ; 114; 0;44535
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13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570
14; 5814.1; 08-SEP-2010 19:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44570
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8; 2457.2; 09-SEP-2010 01:18:24; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44574
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13; 4641.0; 09-SEP-2010 01:54:48; Dark ; 54.5; 170; 27Eps Gem ; 3.00; 9700;occ; 109; 0;44574
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14; 2203.6; 09-SEP-2010 04:35:22; Bright; 42.5; 90; 54Alp Peg ; 2.49; 11000;occ; 85; 0;44576
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4; -1192.0; 09-SEP-2010 05:19:22; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44576
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7; 4642.3; 09-SEP-2010 08:37:13; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44578
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3; 638.9; 10-SEP-2010 08:39:28; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;44593
4; 1514.7; 10-SEP-2010 08:54:04; Dark ; 65.5; 52; 16Bet Cet ; 2.04; 4500;occ; 131; 0;44593
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2; 2603.1; 10-SEP-2010 09:12:12; Bright; 56.0; 58; 21Alp And ; 2.07; 11000;occ; 112; 0;44593
3; 4377.5; 10-SEP-2010 09:41:47; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;44593
4; 5967.2; 10-SEP-2010 10:08:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44593
5; 6675.5; 10-SEP-2010 10:20:05; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;44594
6; 7550.5; 10-SEP-2010 10:34:40; Dark ; 66.0; 52; 16Bet Cet ; 2.04; 4500;occ; 132; 0;44594
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3; 3704.6; 10-SEP-2010 11:11:10; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;44594
4; 4112.3; 10-SEP-2010 11:17:57; Bright; 17.5; 6; 13Alp Aur ; 0.08; 3400;occ; 35; 0;44594
5; 4377.7; 10-SEP-2010 11:22:23; Bright; 14.5; 107; 37The Aur ; 2.65; 11000;occ; 29; 0;44594
6; 4854.0; 10-SEP-2010 11:30:19; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;44594
7; 5968.6; 10-SEP-2010 11:48:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44594
8; 6677.0; 10-SEP-2010 12:00:42; Dark ; 57.5; 157; The1Eri ; 2.91; 9300;occ; 115; 0;44595
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3; 4111.9; 10-SEP-2010 12:58:33; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44595
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2; 2566.7; 13-SEP-2010 09:17:20; Bright; 52.0; 58; 21Alp And ; 2.07; 11000;occ; 104; 0;44636
3; 3536.5; 13-SEP-2010 09:33:30; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44636
4; 4376.0; 13-SEP-2010 09:47:30; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44636
5; 4879.3; 13-SEP-2010 09:55:53; Dark ; 61.5; 44; 24Gam Gem ; 1.93; 11000;occ; 123; 0;44636
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3; 4375.8; 13-SEP-2010 11:28:05; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44637
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2; 1528.7; 16-SEP-2010 20:49:59; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;44686
3; 2177.8; 16-SEP-2010 21:00:48; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44686
4; 2409.2; 16-SEP-2010 21:04:39; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44686
5; 2530.2; 16-SEP-2010 21:06:40; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44686
6; 3023.0; 16-SEP-2010 21:14:53; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44686
7; 3129.8; 16-SEP-2010 21:16:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44686
8; 4482.9; 16-SEP-2010 21:39:13; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44686
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3; -345.0; 16-SEP-2010 21:59:21; Dark ; 49.0; 23; 21Eps CMa ; 1.50; 26000;occ; 98; 0;44686
4; -121.1; 16-SEP-2010 22:03:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44686
5; 28.8; 16-SEP-2010 22:05:34; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;44687
6; 643.1; 16-SEP-2010 22:15:49; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;44687
7; 728.9; 16-SEP-2010 22:17:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;44687
8; 1071.7; 16-SEP-2010 22:22:57; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44687
9; 1528.8; 16-SEP-2010 22:30:34; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;44687
10; 2177.6; 16-SEP-2010 22:41:23; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;44687

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12; 2529.5; 16-SEP-2010 22:47:15; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44687
13; 3022.5; 16-SEP-2010 22:55:28; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44687
14; 3129.2; 16-SEP-2010 22:57:15; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44687
15; 4482.9; 16-SEP-2010 23:19:49; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44687
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 3; 1069.1; 16-SEP-2010 10:38:43; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44680
 4; 1527.9; 16-SEP-2010 10:46:22; Dark ; 24.5; 52; 16Bet Cet ; 2.04; 4500;occ; 49; 0;44680
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 3; 3025.8; 16-SEP-2010 11:11:20; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;44680
 4; 3133.0; 16-SEP-2010 11:13:07; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44680
 5; 4482.1; 16-SEP-2010 11:35:36; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44680
 6; 5004.8; 16-SEP-2010 11:44:19; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44680
 7; 5450.5; 16-SEP-2010 11:51:45; Dark ; 39.0; 132; 15Rho Pup ; 2.80; 6900;occ; 78; 0;44680
 8; 5553.8; 16-SEP-2010 11:53:28; Dark ; 64.5; 1; 9Alp CMa ; -1.44; 11000;occ; 129; 0;44680
 9; 5669.5; 16-SEP-2010 11:55:24; Dark ; 30.0; 47; 2Bet CMa ; 1.98; 28000;occ; 60; 0;44680
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11; 5909.2; 16-SEP-2010 11:59:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44680
12; 6061.2; 16-SEP-2010 12:01:55; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;44681
13; 6676.0; 16-SEP-2010 12:12:10; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;44681
14; 6761.9; 16-SEP-2010 12:13:36; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44681
15; 7105.4; 16-SEP-2010 12:19:20; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;44681
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 2; 2410.7; 16-SEP-2010 12:41:41; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;44681
 3; 3025.3; 16-SEP-2010 12:51:55; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44681
 4; 3132.7; 16-SEP-2010 12:53:43; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44681
 5; 4482.3; 16-SEP-2010 13:16:12; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;44681
 6; 5005.4; 16-SEP-2010 13:24:55; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;44681
 7; 5451.2; 16-SEP-2010 13:32:21; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44681
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12; 6061.8; 16-SEP-2010 13:42:32; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44682
13; 6676.8; 16-SEP-2010 13:52:47; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;44682
14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
15; 7105.9; 16-SEP-2010 13:59:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44682
16; 7564.1; 16-SEP-2010 14:07:34; Dark ; 8.5; 52; 16Bet Cet ; 2.04; 4500;occ; 17; 0;44682
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 3; 2410.4; 16-SEP-2010 14:22:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44682
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 5; 3024.9; 16-SEP-2010 14:32:31; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44682
 6; 3132.1; 16-SEP-2010 14:34:18; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44682
 7; 4482.5; 16-SEP-2010 14:56:48; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;44682
 8; 5006.1; 16-SEP-2010 15:05:32; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;44682
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10; 5556.3; 16-SEP-2010 15:14:42; Dark ; 71.0; 1; 9Alp CMa ; -1.44; 11000;occ; 142; 0;44682
11; 5687.7; 16-SEP-2010 15:16:54; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;44682
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14; 6677.2; 16-SEP-2010 15:33:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44683
15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
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 3; 2410.1; 16-SEP-2010 16:02:52; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;44683
 4; 2532.4; 16-SEP-2010 16:04:54; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44683
 5; 3024.4; 16-SEP-2010 16:13:06; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44683

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8; 5006.5; 16-SEP-2010 16:46:08; Dark ; 61.0; 8; 10Alp CMi ; 0.40; 6500;occ; 122; 0;44683
9; 5452.2; 16-SEP-2010 16:53:34; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44683
10; 5557.3; 16-SEP-2010 16:55:19; Dark ; 59.0; 1; 9Alp CMA ; -1.44; 11000;occ; 118; 0;44683
11; 5688.5; 16-SEP-2010 16:57:30; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;44683
12; 5912.1; 16-SEP-2010 17:01:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44683
13; 6063.3; 16-SEP-2010 17:03:45; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44684
14; 6677.9; 16-SEP-2010 17:14:00; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;44684
15; 6763.4; 16-SEP-2010 17:15:25; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;44684
16; 7106.7; 16-SEP-2010 17:21:09; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;44684

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3; 2409.9; 16-SEP-2010 17:43:28; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44684
4; 2531.6; 16-SEP-2010 17:45:30; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44684
5; 3023.9; 16-SEP-2010 17:53:42; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44684
6; 3131.0; 16-SEP-2010 17:55:29; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44684
7; 4482.7; 16-SEP-2010 18:18:01; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;44684
8; 5007.0; 16-SEP-2010 18:26:45; Dark ; 59.5; 8; 10Alp CMi ; 0.40; 6500;occ; 119; 0;44684
9; 5452.6; 16-SEP-2010 18:34:11; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44684
10; 5558.5; 16-SEP-2010 18:35:56; Dark ; 62.0; 1; 9Alp CMA ; -1.44; 11000;occ; 124; 0;44684
11; 5689.3; 16-SEP-2010 18:38:07; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44684
12; 5913.1; 16-SEP-2010 18:41:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44684
13; 6063.9; 16-SEP-2010 18:44:22; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;44685
14; 6678.1; 16-SEP-2010 18:54:36; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;44685
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 4; -342.5; 23-SEP-2010 04:53:16; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44776
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 7; 5.4; 23-SEP-2010 04:59:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44776
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 9; 771.5; 23-SEP-2010 05:11:50; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;44777
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13; 2392.9; 23-SEP-2010 05:38:51; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44777
14; 2478.6; 23-SEP-2010 05:40:17; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44777
15; 2986.6; 23-SEP-2010 05:48:45; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44777
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 3; 2392.2; 23-SEP-2010 15:42:26; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;44783
 4; 2475.7; 23-SEP-2010 15:43:49; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44783
 5; 2984.7; 23-SEP-2010 15:52:18; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44783
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 10; 5681.4; 23-SEP-2010 16:37:15; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;44783
 11; 5782.9; 23-SEP-2010 16:38:56; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;44783
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 13; 6046.0; 23-SEP-2010 16:43:20; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44784
 14; 6183.2; 23-SEP-2010 16:45:37; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;44784
 15; 6864.6; 23-SEP-2010 16:56:58; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44784
 16; 7143.8; 23-SEP-2010 17:01:37; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44784

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 3; 2391.8; 23-SEP-2010 17:23:01; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44784
 4; 2475.3; 23-SEP-2010 17:24:25; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44784
 5; 2984.2; 23-SEP-2010 17:32:54; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44784
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 9; 5508.9; 23-SEP-2010 18:14:58; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;44784
 10; 5682.8; 23-SEP-2010 18:17:52; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;44784
 11; 5783.8; 23-SEP-2010 18:19:33; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;44784
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 14; 6184.6; 23-SEP-2010 18:26:14; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44785
 15; 6865.4; 23-SEP-2010 18:37:35; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44785
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 3; 2167.5; 23-SEP-2010 18:59:53; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44785
 4; 2391.7; 23-SEP-2010 19:03:37; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44785
 5; 2474.9; 23-SEP-2010 19:05:00; Bright; 42.0; 58; 21Alp And ; 2.07; 11000;occ; 84; 0;44785
 6; 2984.0; 23-SEP-2010 19:13:30; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44785
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 10; 5509.3; 23-SEP-2010 19:55:35; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;44785
 11; 5683.9; 23-SEP-2010 19:58:29; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;44785
 12; 5784.9; 23-SEP-2010 20:00:10; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;44785
 13; 5920.3; 23-SEP-2010 20:02:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44785
 14; 6047.4; 23-SEP-2010 20:04:33; Dark ; 51.0; 161; Tau Pup ; 2.93; 4500;occ; 102; 0;44786
 15; 6185.8; 23-SEP-2010 20:06:51; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44786
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 4; 2978.5; 24-SEP-2010 20:22:23; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44800
 5; 3071.1; 24-SEP-2010 20:23:55; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44800
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 3; -321.7; 24-SEP-2010 21:07:59; Dark ; 43.0; 88; 31Eta CMA ; 2.45; 20000;occ; 86; 0;44800
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 6; 171.0; 24-SEP-2010 21:16:11; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44801
 7; 842.9; 24-SEP-2010 21:27:23; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;44801
 8; 1544.9; 24-SEP-2010 21:39:05; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44801
 9; 2166.6; 24-SEP-2010 21:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44801

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13; 4498.8; 24-SEP-2010 22:28:19; Bright; 52.5; 24; 66Alp Gem ; 1.58; 10200;occ; 105; 0;44801
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 3; -105.2; 24-SEP-2010 22:52:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44801
 4; 172.6; 24-SEP-2010 22:56:49; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;44802
 5; 843.7; 24-SEP-2010 23:08:00; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44802
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7; 5523.7; 25-SEP-2010 08:48:59; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;44807
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8; 5722.4; 25-SEP-2010 12:13:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;44809
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8; 5723.3; 25-SEP-2010 13:54:07; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;44810
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7; 5090.7; 25-SEP-2010 15:24:10; Dark ; 74.0; 8; 10Alp CMi ; 0.40; 6500;occ; 148; 0;44811
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11; 5938.1; 25-SEP-2010 17:18:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44812
12; 6065.7; 25-SEP-2010 17:21:01; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44813
13; 6224.4; 25-SEP-2010 17:23:40; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;44813
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 6; 4500.6; 25-SEP-2010 18:35:32; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;44813
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 8; 5527.8; 25-SEP-2010 18:52:39; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44813
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 4; 2973.5; 25-SEP-2010 21:31:17; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44815
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8; 242.8; 28-SEP-2010 07:26:43; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44850
9; 883.1; 28-SEP-2010 07:37:23; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44850
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5; 2961.6; 28-SEP-2010 14:54:25; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44854
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9; 5557.4; 28-SEP-2010 15:37:41; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44854
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10; 2192.7; 29-SEP-2010 02:25:48; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44861
11; 2444.5; 29-SEP-2010 02:30:00; Bright; 42.0; 58; 21Alp And ; 2.07; 11000;occ; 84; 0;44861
12; 2683.1; 29-SEP-2010 02:33:58; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44861
13; 2959.4; 29-SEP-2010 02:38:35; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;44861
14; 3044.3; 29-SEP-2010 02:39:59; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44861

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4; -264.0; 29-SEP-2010 03:25:27; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;44861
5; -165.7; 29-SEP-2010 03:27:05; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;44861
6; -63.8; 29-SEP-2010 03:28:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44861
7; 64.5; 29-SEP-2010 03:30:56; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44862
8; 148.3; 29-SEP-2010 03:32:19; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44862
9; 260.2; 29-SEP-2010 03:34:11; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44862
10; 892.4; 29-SEP-2010 03:44:44; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44862
11; 1553.2; 29-SEP-2010 03:55:44; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44862
12; 2192.4; 29-SEP-2010 04:06:24; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44862
13; 2444.4; 29-SEP-2010 04:10:36; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44862
14; 2682.5; 29-SEP-2010 04:14:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44862
15; 2959.3; 29-SEP-2010 04:19:10; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44862
16; 3044.0; 29-SEP-2010 04:20:35; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44862

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3; -901.4; 29-SEP-2010 04:55:26; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;44862
4; -472.9; 29-SEP-2010 05:02:34; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44862
5; -262.9; 29-SEP-2010 05:06:04; Dark ; 46.5; 88; 31Eta CMA ; 2.45; 20000;occ; 93; 0;44862
6; -164.5; 29-SEP-2010 05:07:43; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44862
7; -63.1; 29-SEP-2010 05:09:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44862
8; 65.1; 29-SEP-2010 05:11:32; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44863
9; 149.0; 29-SEP-2010 05:12:56; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44863
10; 261.8; 29-SEP-2010 05:14:49; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44863
11; 893.2; 29-SEP-2010 05:25:20; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44863
12; 1553.4; 29-SEP-2010 05:36:20; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44863
13; 2192.0; 29-SEP-2010 05:46:59; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44863
14; 2444.1; 29-SEP-2010 05:51:11; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44863
15; 2681.7; 29-SEP-2010 05:55:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44863
16; 2959.0; 29-SEP-2010 05:59:46; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44863
17; 3043.6; 29-SEP-2010 06:01:11; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44863

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2; 2190.0; 29-SEP-2010 20:52:20; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44872
3; 2441.2; 29-SEP-2010 20:56:32; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44872
4; 2674.7; 29-SEP-2010 21:00:25; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;44872
5; 2956.5; 29-SEP-2010 21:05:07; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44872
6; 3039.7; 29-SEP-2010 21:06:30; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44872
7; 4595.8; 29-SEP-2010 21:32:26; Bright; 58.5; 17; 78Bet Gem ; 1.16; 4500;occ; 117; 0;44872

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2;-1442.3; 29-SEP-2010 06:27:01; Bright; 54.5; 17; 78Bet Gem ; 1.16; 4500;occ; 109; 0;44863
3; -900.4; 29-SEP-2010 06:36:03; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;44863
4; -472.0; 29-SEP-2010 06:43:11; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44863
5; -261.9; 29-SEP-2010 06:46:41; Dark ; 52.0; 88; 31Eta CMA ; 2.45; 20000;occ; 104; 0;44863
6; -163.4; 29-SEP-2010 06:48:20; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44863
7; -62.3; 29-SEP-2010 06:50:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44863
8; 65.8; 29-SEP-2010 06:52:09; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44864
9; 149.7; 29-SEP-2010 06:53:33; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44864

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10; 263.4; 29-SEP-2010 06:55:26; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;44864
11; 893.8; 29-SEP-2010 07:05:57; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44864
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3; 2681.0; 29-SEP-2010 07:35:44; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44864
4; 2958.7; 29-SEP-2010 07:40:22; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44864
5; 3043.1; 29-SEP-2010 07:41:46; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44864
6; 4594.0; 29-SEP-2010 08:07:37; Bright; 56.0; 17; 78Bet Gem ; 1.16; 4500;occ; 112; 0;44864
7; 5136.4; 29-SEP-2010 08:16:40; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44864
8; 5564.6; 29-SEP-2010 08:23:48; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44864
9; 5775.1; 29-SEP-2010 08:27:18; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44864
10; 5873.9; 29-SEP-2010 08:28:57; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;44864
11; 5974.3; 29-SEP-2010 08:30:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44864
12; 6102.4; 29-SEP-2010 08:32:45; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44865
13; 6186.5; 29-SEP-2010 08:34:10; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;44865
14; 6300.5; 29-SEP-2010 08:36:04; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;44865
15; 6930.8; 29-SEP-2010 08:46:34; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44865
16; 7589.6; 29-SEP-2010 08:57:33; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;44865
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2; 2443.4; 29-SEP-2010 09:12:22; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44865
3; 2680.0; 29-SEP-2010 09:16:19; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44865
4; 2958.6; 29-SEP-2010 09:20:58; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44865
5; 3042.6; 29-SEP-2010 09:22:22; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44865
6; 4594.3; 29-SEP-2010 09:48:13; Bright; 57.0; 17; 78Bet Gem ; 1.16; 4500;occ; 114; 0;44865
7; 5137.3; 29-SEP-2010 09:57:16; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44865
8; 5565.3; 29-SEP-2010 10:04:24; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44865
9; 5776.1; 29-SEP-2010 10:07:55; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;44865
10; 5875.1; 29-SEP-2010 10:09:34; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;44865
11; 5975.0; 29-SEP-2010 10:11:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44865
12; 6103.3; 29-SEP-2010 10:13:22; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44866
13; 6187.3; 29-SEP-2010 10:14:46; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44866
14; 6302.1; 29-SEP-2010 10:16:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;44866
15; 6931.6; 29-SEP-2010 10:27:11; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44866
16; 7589.8; 29-SEP-2010 10:38:09; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44866
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2; 2443.0; 29-SEP-2010 10:52:58; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44866
3; 2679.4; 29-SEP-2010 10:56:54; Bright; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;44866
4; 2958.2; 29-SEP-2010 11:01:33; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44866
5; 3042.2; 29-SEP-2010 11:02:57; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44866
6; 4594.5; 29-SEP-2010 11:28:49; Bright; 74.0; 17; 78Bet Gem ; 1.16; 4500;occ; 148; 0;44866
7; 5138.3; 29-SEP-2010 11:37:53; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;44866
8; 5566.0; 29-SEP-2010 11:45:01; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44866
9; 5777.1; 29-SEP-2010 11:48:32; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44866
10; 5876.1; 29-SEP-2010 11:50:11; Dark ; 59.0; 23; 21Eps CMA ; 1.50; 26000;occ; 118; 0;44866
11; 5975.7; 29-SEP-2010 11:51:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44866
12; 6103.8; 29-SEP-2010 11:53:59; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44867
13; 6188.0; 29-SEP-2010 11:55:23; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44867
14; 6303.7; 29-SEP-2010 11:57:19; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;44867
15; 6932.3; 29-SEP-2010 12:07:47; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44867
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3; 2442.9; 29-SEP-2010 12:33:34; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44867
4; 2678.7; 29-SEP-2010 12:37:29; Bright; 52.5; 53; 43Bet And ; 2.05; 3300;occ; 105; 0;44867
5; 2958.0; 29-SEP-2010 12:42:09; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;44867
6; 3041.8; 29-SEP-2010 12:43:33; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44867
7; 4594.7; 29-SEP-2010 13:09:25; Bright; 58.5; 17; 78Bet Gem ; 1.16; 4500;occ; 117; 0;44867
8; 5139.2; 29-SEP-2010 13:18:30; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;44867
9; 5567.0; 29-SEP-2010 13:25:38; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;44867
10; 5778.2; 29-SEP-2010 13:29:09; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44867
11; 5877.3; 29-SEP-2010 13:30:48; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44867
12; 5976.4; 29-SEP-2010 13:32:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44867
13; 6104.8; 29-SEP-2010 13:34:36; Dark ; 50.0; 161; Tau Pup ; 2.93; 4500;occ; 100; 0;44868
14; 6188.8; 29-SEP-2010 13:36:00; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;44868

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5; 2957.7; 29-SEP-2010 14:22:44; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44868
6; 3041.5; 29-SEP-2010 14:24:08; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;44868
7; 4594.9; 29-SEP-2010 14:50:02; Bright; 68.0; 17; 78Bet Gem ; 1.16; 4500;occ; 136; 0;44868
8; 5567.9; 29-SEP-2010 15:06:15; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44868
9; 5779.2; 29-SEP-2010 15:09:46; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;44868
10; 5878.7; 29-SEP-2010 15:11:25; Dark ; 61.5; 23; 21Eps CMA ; 1.50; 26000;occ; 123; 0;44868
11; 5977.2; 29-SEP-2010 15:13:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44868
12; 6105.5; 29-SEP-2010 15:15:12; Dark ; 49.5; 161; Tau Pup ; 2.93; 4500;occ; 99; 0;44869
13; 6189.5; 29-SEP-2010 15:16:36; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44869
14; 6306.6; 29-SEP-2010 15:18:33; Dark ; 36.0; 108; Alp Col ; 2.65; 15200;occ; 72; 0;44869
15; 6933.7; 29-SEP-2010 15:29:00; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44869
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2; 2190.4; 29-SEP-2010 15:50:33; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;44869
3; 2441.8; 29-SEP-2010 15:54:44; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44869
4; 2677.0; 29-SEP-2010 15:58:40; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;44869
5; 2957.3; 29-SEP-2010 16:03:20; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44869
6; 3041.0; 29-SEP-2010 16:04:44; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44869
7; 4595.3; 29-SEP-2010 16:30:38; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44869
8; 5568.8; 29-SEP-2010 16:46:51; Dark ; 46.5; 132; 15Rho Pup ; 2.80; 6900;occ; 93; 0;44869
9; 5780.1; 29-SEP-2010 16:50:23; Dark ; 50.5; 88; 31Eta CMA ; 2.45; 20000;occ; 101; 0;44869
10; 5879.8; 29-SEP-2010 16:52:02; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44869
11; 5978.0; 29-SEP-2010 16:53:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44869
12; 6190.4; 29-SEP-2010 16:57:13; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44870
13; 6308.3; 29-SEP-2010 16:59:11; Dark ; 33.0; 108; Alp Col ; 2.65; 15200;occ; 66; 0;44870
14; 6934.6; 29-SEP-2010 17:09:37; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44870
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4; 2676.3; 29-SEP-2010 17:39:15; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44870
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8; 2189.7; 29-SEP-2010 22:32:56; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44873
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6; 278.2; 29-SEP-2010 23:41:40; Dark ; 28.0; 108; Alp Col ; 2.65; 15200;occ; 56; 0;44874
7; 901.7; 29-SEP-2010 23:52:04; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;44874
8; 1554.9; 30-SEP-2010 00:02:57; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44874
9; 2189.5; 30-SEP-2010 00:13:32; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44874
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11; 2673.4; 30-SEP-2010 00:21:36; Bright; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;44874
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13; 3038.9; 30-SEP-2010 00:27:41; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44874
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7; 1555.0; 30-SEP-2010 01:43:33; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44875
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23; 8475.6; 30-SEP-2010 03:38:54; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44876
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4; 5574.0; 30-SEP-2010 04:31:08; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44876
5; 5787.4; 30-SEP-2010 04:34:41; Dark ; 50.5; 88; 31Eta CMA ; 2.45; 20000;occ; 101; 0;44876
6; 5983.1; 30-SEP-2010 04:37:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44876
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13; 4511.8; 01-OCT-2010 00:20:37; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44888
14; 4600.1; 01-OCT-2010 00:22:05; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44888
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3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
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2; 2438.3; 30-SEP-2010 12:01:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44881

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3; 2668.1; 30-SEP-2010 12:05:42; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44881
4; 2953.9; 30-SEP-2010 12:10:28; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44881
5; 3036.1; 30-SEP-2010 12:11:50; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44881
6; 4510.9; 30-SEP-2010 12:36:24; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;44881
7; 4598.3; 30-SEP-2010 12:37:52; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44881
8; 5152.8; 30-SEP-2010 12:47:06; Dark ; 68.5; 8; 10Alp CMi ; 0.40; 6500;occ; 137; 0;44881
9; 5577.9; 30-SEP-2010 12:54:12; Dark ; 46.5; 132; 15Rho Pup ; 2.80; 6900;occ; 93; 0;44881
10; 5808.4; 30-SEP-2010 12:58:02; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;44881
11; 5906.8; 30-SEP-2010 12:59:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;44881
12; 5986.6; 30-SEP-2010 13:01:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44881
13; 6198.9; 30-SEP-2010 13:04:33; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;44882
14; 6325.9; 30-SEP-2010 13:06:40; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44882
15; 6943.5; 30-SEP-2010 13:16:57; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;44882
16; 7591.8; 30-SEP-2010 13:27:45; Dark ; 24.5; 52; 16Bet Cet ; 2.04; 4500;occ; 49; 0;44882
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3; 2437.9; 30-SEP-2010 13:42:27; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44882
4; 2667.4; 30-SEP-2010 13:46:17; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;44882
5; 2953.9; 30-SEP-2010 13:51:03; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44882
6; 3035.6; 30-SEP-2010 13:52:25; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44882
7; 4511.0; 30-SEP-2010 14:17:00; Bright; 55.5; 24; 66Alp Gem ; 1.58; 10200;occ; 111; 0;44882
8; 4598.6; 30-SEP-2010 14:18:28; Bright; 69.5; 17; 78Bet Gem ; 1.16; 4500;occ; 139; 0;44882
9; 5153.8; 30-SEP-2010 14:27:43; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44882
10; 5578.9; 30-SEP-2010 14:34:48; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44882
11; 5823.8; 30-SEP-2010 14:38:53; Dark ; 67.0; 37; 25Del CMA ; 1.83; 5900;occ; 134; 0;44882
12; 5987.4; 30-SEP-2010 14:41:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44882
13; 6199.8; 30-SEP-2010 14:45:09; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44883
14; 6327.7; 30-SEP-2010 14:47:17; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;44883
15; 6944.6; 30-SEP-2010 14:57:34; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;44883
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3; 2437.8; 30-SEP-2010 15:23:03; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44883
4; 2666.8; 30-SEP-2010 15:26:52; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44883
5; 2953.6; 30-SEP-2010 15:31:39; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44883
6; 3035.4; 30-SEP-2010 15:33:01; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44883
7; 4511.2; 30-SEP-2010 15:57:37; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44883
8; 4598.8; 30-SEP-2010 15:59:04; Bright; 65.5; 17; 78Bet Gem ; 1.16; 4500;occ; 131; 0;44883
9; 5154.9; 30-SEP-2010 16:08:20; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44883
10; 5579.8; 30-SEP-2010 16:15:25; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44883
11; 5825.2; 30-SEP-2010 16:19:31; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;44883
12; 5988.2; 30-SEP-2010 16:22:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44883
13; 6200.8; 30-SEP-2010 16:25:46; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44884
14; 6329.2; 30-SEP-2010 16:27:55; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;44884
15; 6945.1; 30-SEP-2010 16:38:10; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44884
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3; 2437.4; 30-SEP-2010 17:03:39; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44884
4; 2666.0; 30-SEP-2010 17:07:27; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;44884
5; 2953.3; 30-SEP-2010 17:12:15; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44884
6; 3034.9; 30-SEP-2010 17:13:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44884
7; 4511.5; 30-SEP-2010 17:38:13; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44884
8; 4599.2; 30-SEP-2010 17:39:41; Bright; 57.5; 17; 78Bet Gem ; 1.16; 4500;occ; 115; 0;44884
9; 5156.1; 30-SEP-2010 17:48:57; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;44884
10; 5580.5; 30-SEP-2010 17:56:02; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44884
11; 5826.5; 30-SEP-2010 18:00:08; Dark ; 52.5; 37; 25Del CMA ; 1.83; 5900;occ; 105; 0;44884
12; 5988.9; 30-SEP-2010 18:02:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44884
13; 6201.4; 30-SEP-2010 18:06:23; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;44885
14; 6330.7; 30-SEP-2010 18:08:32; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44885
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3; 2437.0; 30-SEP-2010 18:44:14; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44885
4; 2665.2; 30-SEP-2010 18:48:03; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44885
5; 2952.9; 30-SEP-2010 18:52:50; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44885

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8;	4599.5;	30-SEP-2010	19:20:17;	Bright;	62.5;	17;	78Bet Gem	;	1.16;	4500;occ;	125;	0;44885	
9;	5156.9;	30-SEP-2010	19:29:34;	Dark	;	54.0;	8;	10Alp CMi	;	0.40;	6500;occ;	108;	0;44885
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12;	5989.6;	30-SEP-2010	19:43:27;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;44885
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14;	6331.9;	30-SEP-2010	19:49:09;	Dark	;	59.0;	108;	Alp Col	;	2.65;	15200;occ;	118;	0;44886
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