

# GOMOS Daily Report 04-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	06SEP2011 07:00:29
Data source version	GOMOS/6.01
Start time of products	04SEP2011 00:02:41
Stop time of products	04SEP2011 06:15:28
Store outputs in DB	Yes
Nb of level 1b prods	22
Nb of prods with errors	0

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

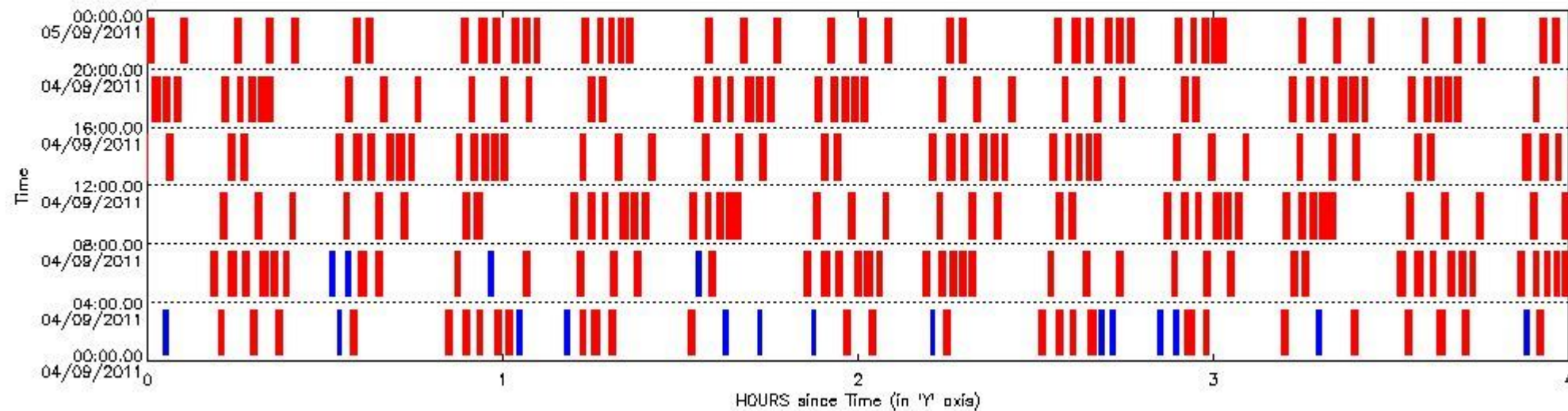
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
04-SEP-2011 00:11:54	34AlpAqr	162	49743
04-SEP-2011 00:17:20	54AlpPeg	90	49743
04-SEP-2011 00:21:32	44EtaPeg	164	49743
04-SEP-2011 00:34:04	27GamCas	76	49743
04-SEP-2011 00:50:08	34BetAur	42	49743
04-SEP-2011 00:53:05	37TheAur	107	49743
04-SEP-2011 00:55:32	78BetGem	17	49743
04-SEP-2011 00:58:32	13MuGem	151	49743
04-SEP-2011 01:00:22	24GamGem	44	49743
04-SEP-2011 01:12:56	21EpsCMA	23	49743
04-SEP-2011 01:14:58	11AlpLep	101	49743
04-SEP-2011 01:17:57	DSA1062	0	49743
04-SEP-2011 01:31:15	AlpEri	9	49744
04-SEP-2011 01:57:34	54AlpPeg	90	49744
04-SEP-2011 02:01:46	44EtaPeg	164	49744

04-SEP-2011 02:14:18	27GamCas	76	49744
04-SEP-2011 02:30:22	34BetAur	42	49744
04-SEP-2011 02:33:19	37TheAur	107	49744
04-SEP-2011 02:35:47	78BetGem	17	49744
04-SEP-2011 02:38:46	13MuGem	151	49744
04-SEP-2011 02:55:13	11AlpLep	101	49744
04-SEP-2011 02:58:12	DSA1062	0	49744
04-SEP-2011 03:11:30	AlpEri	9	49745
04-SEP-2011 03:23:13	24AlpPsA	18	49745
04-SEP-2011 03:32:22	34AlpAqr	162	49745
04-SEP-2011 03:37:47	54AlpPeg	90	49745
04-SEP-2011 03:41:59	44EtaPeg	164	49745
04-SEP-2011 03:54:31	27GamCas	76	49745
04-SEP-2011 04:10:35	34BetAur	42	49745
04-SEP-2011 04:13:33	37TheAur	107	49745
04-SEP-2011 04:16:01	78BetGem	17	49745
04-SEP-2011 04:19:01	13MuGem	151	49745
04-SEP-2011 04:20:51	24GamGem	44	49745
04-SEP-2011 04:22:49	10AlpCMi	8	49745
04-SEP-2011 04:35:28	11AlpLep	101	49745
04-SEP-2011 04:38:27	DSA1062	0	49745
04-SEP-2011 04:51:45	AlpEri	9	49746
04-SEP-2011 05:03:28	24AlpPsA	18	49746
04-SEP-2011 05:12:36	34AlpAqr	162	49746
04-SEP-2011 05:18:01	54AlpPeg	90	49746
04-SEP-2011 05:22:13	44EtaPeg	164	49746
04-SEP-2011 05:34:44	27GamCas	76	49746
04-SEP-2011 05:50:49	34BetAur	42	49746
04-SEP-2011 05:53:47	37TheAur	107	49746
04-SEP-2011 05:56:15	78BetGem	17	49746
04-SEP-2011 05:59:15	13MuGem	151	49746
04-SEP-2011 06:01:05	24GamGem	44	49746
04-SEP-2011 06:03:04	10AlpCMi	8	49746
04-SEP-2011 06:11:01	9AlpCMa	1	49746
04-SEP-2011 06:13:39	21EpsCMa	23	49746
04-SEP-2011 06:15:31	1ZetCMa	177	49746
04-SEP-2011 06:17:09	DSA1059	0	49746
04-SEP-2011 06:18:34	AlpCol	108	49746
04-SEP-2011 06:31:59	AlpEri	9	49747
04-SEP-2011 06:37:53	AlpPhe	84	49747
04-SEP-2011 06:43:42	24AlpPsA	18	49747
04-SEP-2011 06:52:50	34AlpAqr	162	49747
04-SEP-2011 06:58:14	54AlpPeg	90	49747
04-SEP-2011 07:02:26	44EtaPeg	164	49747
04-SEP-2011 07:12:55	11BetCas	74	49747
04-SEP-2011 07:14:57	27GamCas	76	49747
04-SEP-2011 07:31:03	34BetAur	42	49747
04-SEP-2011 07:34:01	37TheAur	107	49747
04-SEP-2011 07:36:29	78BetGem	17	49747
04-SEP-2011 07:39:29	13MuGem	151	49747
04-SEP-2011 07:41:20	24GamGem	44	49747
04-SEP-2011 07:43:18	10AlpCMi	8	49747
04-SEP-2011 07:51:16	9AlpCMa	1	49747
04-SEP-2011 07:53:54	21EpsCMa	23	49747
04-SEP-2011 07:55:46	1ZetCMa	177	49747
04-SEP-2011 07:57:24	DSA1059	0	49747
04-SEP-2011 07:58:49	AlpCol	108	49747
04-SEP-2011 08:12:14	AlpEri	9	49748
04-SEP-2011 08:18:08	AlpPhe	84	49748

04-SEP-2011 08:23:56	24AlpPsA	18	49748
04-SEP-2011 08:33:04	34AlpAqr	162	49748
04-SEP-2011 08:38:28	54AlpPeg	90	49748
04-SEP-2011 08:42:40	44EtaPeg	164	49748
04-SEP-2011 08:53:08	11BetCas	74	49748
04-SEP-2011 08:55:11	27GamCas	76	49748
04-SEP-2011 09:11:17	34BetAur	42	49748
04-SEP-2011 09:14:15	37TheAur	107	49748
04-SEP-2011 09:16:43	78BetGem	17	49748
04-SEP-2011 09:19:44	13MuGem	151	49748
04-SEP-2011 09:21:34	24GamGem	44	49748
04-SEP-2011 09:23:32	10AlpCMi	8	49748
04-SEP-2011 09:31:30	9AlpCMa	1	49748
04-SEP-2011 09:34:09	21EpsCMa	23	49748
04-SEP-2011 09:36:01	1ZetCMa	177	49748
04-SEP-2011 09:37:38	DSA1059	0	49748
04-SEP-2011 09:39:04	AlpCol	108	49748
04-SEP-2011 09:52:28	AlpEri	9	49749
04-SEP-2011 09:58:22	AlpPhe	84	49749
04-SEP-2011 10:04:10	24AlpPsA	18	49749
04-SEP-2011 10:13:18	34AlpAqr	162	49749
04-SEP-2011 10:18:41	54AlpPeg	90	49749
04-SEP-2011 10:22:54	44EtaPeg	164	49749
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04-SEP-2011 11:16:16	1ZetCMa	177	49749
04-SEP-2011 11:17:53	DSA1059	0	49749
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04-SEP-2011 12:15:37	27GamCas	76	49750
04-SEP-2011 12:31:44	34BetAur	42	49750
04-SEP-2011 12:34:43	37TheAur	107	49750
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04-SEP-2011 12:42:03	24GamGem	44	49750
04-SEP-2011 12:44:01	10AlpCMi	8	49750
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04-SEP-2011 12:56:30	1ZetCMa	177	49750
04-SEP-2011 12:58:08	DSA1059	0	49750
04-SEP-2011 12:59:34	AlpCol	108	49750
04-SEP-2011 13:12:57	AlpEri	9	49751
04-SEP-2011 13:18:51	AlpPhe	84	49751
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04-SEP-2011 13:33:46	34AlpAqr	162	49751

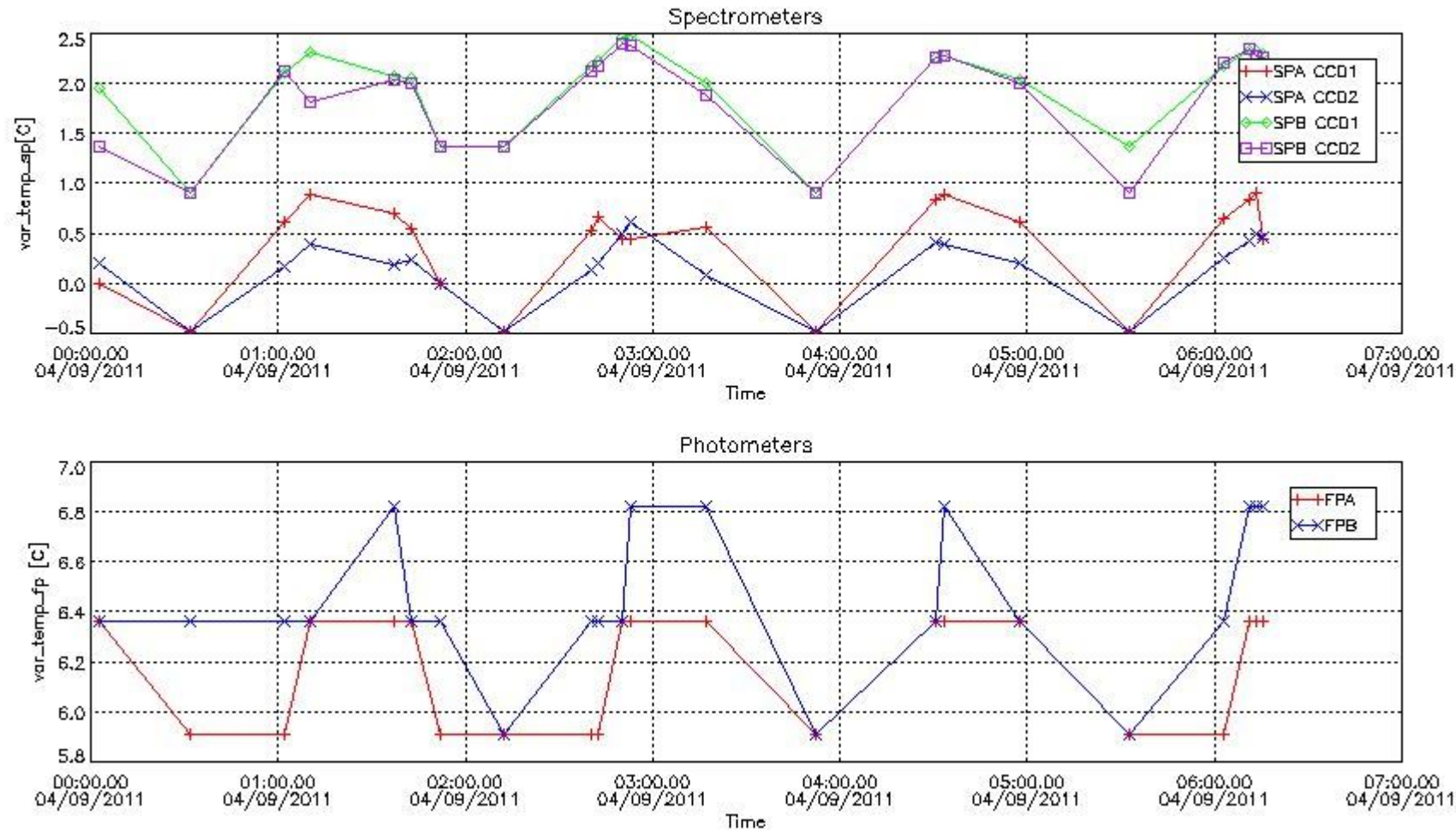
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04-SEP-2011 13:43:21	44EtaPeg	164	49751
04-SEP-2011 13:53:48	11BetCas	74	49751
04-SEP-2011 13:55:51	27GamCas	76	49751
04-SEP-2011 14:11:58	34BetAur	42	49751
04-SEP-2011 14:14:57	37TheAur	107	49751
04-SEP-2011 14:17:26	78BetGem	17	49751
04-SEP-2011 14:20:27	13MuGem	151	49751
04-SEP-2011 14:22:17	24GamGem	44	49751
04-SEP-2011 14:24:15	10AlpCMi	8	49751
04-SEP-2011 14:32:14	9AlpCMa	1	49751
04-SEP-2011 14:34:52	21EpsCMa	23	49751
04-SEP-2011 14:36:45	1ZetCMa	177	49751
04-SEP-2011 14:38:22	DSA1059	0	49751
04-SEP-2011 14:39:49	AlpCol	108	49751
04-SEP-2011 14:53:12	AlpEri	9	49752
04-SEP-2011 14:59:06	AlpPhe	84	49752
04-SEP-2011 15:04:53	24AlpPsA	18	49752
04-SEP-2011 15:13:59	34AlpAqr	162	49752
04-SEP-2011 15:19:22	54AlpPeg	90	49752
04-SEP-2011 15:23:34	44EtaPeg	164	49752
04-SEP-2011 15:34:02	11BetCas	74	49752
04-SEP-2011 15:36:04	27GamCas	76	49752
04-SEP-2011 15:52:12	34BetAur	42	49752
04-SEP-2011 15:55:11	37TheAur	107	49752
04-SEP-2011 15:57:40	78BetGem	17	49752
04-SEP-2011 16:00:41	13MuGem	151	49752
04-SEP-2011 16:02:32	24GamGem	44	49752
04-SEP-2011 16:04:30	10AlpCMi	8	49752
04-SEP-2011 16:12:29	9AlpCMa	1	49752
04-SEP-2011 16:15:07	21EpsCMa	23	49752
04-SEP-2011 16:17:00	1ZetCMa	177	49752
04-SEP-2011 16:18:37	DSA1059	0	49752
04-SEP-2011 16:20:04	AlpCol	108	49752
04-SEP-2011 16:33:26	AlpEri	9	49753
04-SEP-2011 16:39:20	AlpPhe	84	49753
04-SEP-2011 16:45:07	24AlpPsA	18	49753
04-SEP-2011 16:54:13	34AlpAqr	162	49753
04-SEP-2011 16:59:36	54AlpPeg	90	49753
04-SEP-2011 17:03:48	44EtaPeg	164	49753
04-SEP-2011 17:14:15	11BetCas	74	49753
04-SEP-2011 17:16:17	27GamCas	76	49753
04-SEP-2011 17:32:26	34BetAur	42	49753
04-SEP-2011 17:35:25	37TheAur	107	49753
04-SEP-2011 17:37:54	78BetGem	17	49753
04-SEP-2011 17:40:55	13MuGem	151	49753
04-SEP-2011 17:42:46	24GamGem	44	49753
04-SEP-2011 17:44:44	10AlpCMi	8	49753
04-SEP-2011 17:52:44	9AlpCMa	1	49753
04-SEP-2011 17:55:21	21EpsCMa	23	49753
04-SEP-2011 17:57:15	1ZetCMa	177	49753
04-SEP-2011 17:58:52	DSA1059	0	49753
04-SEP-2011 18:00:19	AlpCol	108	49753
04-SEP-2011 18:13:41	AlpEri	9	49754
04-SEP-2011 18:19:35	AlpPhe	84	49754
04-SEP-2011 18:25:21	24AlpPsA	18	49754
04-SEP-2011 18:34:27	34AlpAqr	162	49754
04-SEP-2011 18:39:49	54AlpPeg	90	49754
04-SEP-2011 18:44:02	44EtaPeg	164	49754

04-SEP-2011 18:54:29	11BetCas	74	49754
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04-SEP-2011 19:23:01	24GamGem	44	49754
04-SEP-2011 19:24:58	10AlpCMi	8	49754
04-SEP-2011 19:32:58	9AlpCMa	1	49754
04-SEP-2011 19:35:36	21EpsCMa	23	49754
04-SEP-2011 19:37:30	1ZetCMa	177	49754
04-SEP-2011 19:39:07	DSA1059	0	49754
04-SEP-2011 19:40:34	AlpCol	108	49754
04-SEP-2011 19:53:55	AlpEri	9	49755
04-SEP-2011 19:59:49	AlpPhe	84	49755
04-SEP-2011 20:05:36	24AlpPsA	18	49755
04-SEP-2011 20:14:41	34AlpAqr	162	49755
04-SEP-2011 20:20:03	54AlpPeg	90	49755
04-SEP-2011 20:24:15	44EtaPeg	164	49755
04-SEP-2011 20:34:42	11BetCas	74	49755
04-SEP-2011 20:36:44	27GamCas	76	49755
04-SEP-2011 20:52:53	34BetAur	42	49755
04-SEP-2011 20:55:53	37TheAur	107	49755
04-SEP-2011 20:58:22	78BetGem	17	49755
04-SEP-2011 21:01:24	13MuGem	151	49755
04-SEP-2011 21:03:15	24GamGem	44	49755
04-SEP-2011 21:05:13	10AlpCMi	8	49755
04-SEP-2011 21:13:13	9AlpCMa	1	49755
04-SEP-2011 21:15:50	21EpsCMa	23	49755
04-SEP-2011 21:17:44	1ZetCMa	177	49755
04-SEP-2011 21:19:21	DSA1059	0	49755
04-SEP-2011 21:20:49	AlpCol	108	49755
04-SEP-2011 21:34:10	AlpEri	9	49756
04-SEP-2011 21:40:03	AlpPhe	84	49756
04-SEP-2011 21:45:50	24AlpPsA	18	49756
04-SEP-2011 21:54:55	34AlpAqr	162	49756
04-SEP-2011 22:00:16	54AlpPeg	90	49756
04-SEP-2011 22:04:29	44EtaPeg	164	49756
04-SEP-2011 22:14:55	11BetCas	74	49756
04-SEP-2011 22:16:57	27GamCas	76	49756
04-SEP-2011 22:33:07	34BetAur	42	49756
04-SEP-2011 22:36:07	37TheAur	107	49756
04-SEP-2011 22:38:36	78BetGem	17	49756
04-SEP-2011 22:41:39	13MuGem	151	49756
04-SEP-2011 22:43:29	24GamGem	44	49756
04-SEP-2011 22:45:27	10AlpCMi	8	49756
04-SEP-2011 22:53:28	9AlpCMa	1	49756
04-SEP-2011 22:56:05	21EpsCMa	23	49756
04-SEP-2011 22:57:59	1ZetCMa	177	49756
04-SEP-2011 22:59:36	DSA1059	0	49756
04-SEP-2011 23:01:04	AlpCol	108	49756
04-SEP-2011 23:14:25	AlpEri	9	49757
04-SEP-2011 23:20:18	AlpPhe	84	49757
04-SEP-2011 23:26:04	24AlpPsA	18	49757
04-SEP-2011 23:35:09	34AlpAqr	162	49757
04-SEP-2011 23:40:30	54AlpPeg	90	49757
04-SEP-2011 23:44:42	44EtaPeg	164	49757
04-SEP-2011 23:55:09	11BetCas	74	49757
04-SEP-2011 23:57:11	27GamCas	76	49757

## 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110904_000241_000000483106_00160_49743_2746.N1	04-SEP-2011 00:02:41	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	49743	No
2	GOM_TRA_1PNPDE20110904_003157_000000413106_00160_49743_2747.N1	04-SEP-2011 00:31:57	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	49743	No
3	GOM_TRA_1PNPDE20110904_010216_000000443106_00160_49743_2748.N1	04-SEP-2011 01:02:16	Twilight	43.500	8	10Alp CMi	0.40000	6500.0	87	49743	No
4	GOM_TRA_1PNPDE20110904_011013_000000513106_00160_49743_2814.N1	04-SEP-2011 01:10:13	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	49743	No
5	GOM_TRA_1PNPDE20110904_013706_000000493106_00161_49744_2815.N1	04-SEP-2011 01:37:06	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49744	No
6	GOM_TRA_1PNPDE20110904_014255_000000463106_00161_49744_2816.N1	04-SEP-2011 01:42:55	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	49744	No
7	GOM_TRA_1PNPDE20110904_015204_000000403106_00161_49744_2817.N1	04-SEP-2011 01:52:04	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	49744	No
8	GOM_TRA_1PNPDE20110904_021211_000000413106_00161_49744_2818.N1	04-SEP-2011 02:12:11	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	49744	No
9	GOM_TRA_1PNPDE20110904_024032_000000533106_00161_49744_2819.N1	04-SEP-2011 02:40:32	Twilight_and_stray	52.500	44	24Gam Gem	1.9280	11000.	105	49744	No
10	GOM_TRA_1PNPDE20110904_024231_000000463106_00161_49744_2820.N1	04-SEP-2011 02:42:31	Twilight	46.000	8	10Alp CMi	0.40000	6500.0	92	49744	No
11	GOM_TRA_1PNPDE20110904_025027_000000563106_00161_49744_2821.N1	04-SEP-2011 02:50:27	Dark	55.500	1	9Alp CMa	-1.4400	11000.	111	49744	No
12	GOM_TRA_1PNPDE20110904_025306_000000483106_00161_49744_2822.N1	04-SEP-2011 02:53:06	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	49744	No
13	GOM_TRA_1PNPDE20110904_031720_000000463106_00162_49745_2823.N1	04-SEP-2011 03:17:20	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	49745	No
14	GOM_TRA_1PNPDE20110904_035224_000000443106_00162_49745_2824.N1	04-SEP-2011 03:52:24	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	49745	No
15	GOM_TRA_1PNPDE20110904_043042_000000493106_00162_49745_2855.N1	04-SEP-2011 04:30:42	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	49745	No
16	GOM_TRA_1PNPDE20110904_043321_000000463106_00162_49745_2856.N1	04-SEP-2011 04:33:21	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	49745	No
17	GOM_TRA_1PNPDE20110904_045735_000000473106_00163_49746_2857.N1	04-SEP-2011 04:57:35	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49746	No
18	GOM_TRA_1PNPDE20110904_053238_000000443106_00163_49746_2858.N1	04-SEP-2011 05:32:38	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	49746	No
19	GOM_TRA_1PNPDE20110904_060300_000000563106_00163_49746_2901.N1	04-SEP-2011 06:03:00	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	49746	No
20	GOM_TRA_1PNPDE20110904_061057_000000533106_00163_49746_2902.N1	04-SEP-2011 06:10:57	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	49746	No
21	GOM_TRA_1PNPDE20110904_061335_000000473106_00163_49746_2903.N1	04-SEP-2011 06:13:35	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	49746	No
22	GOM_TRA_1PNPDE20110904_061528_000000453106_00163_49746_2904.N1	04-SEP-2011 06:15:28	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	49746	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.

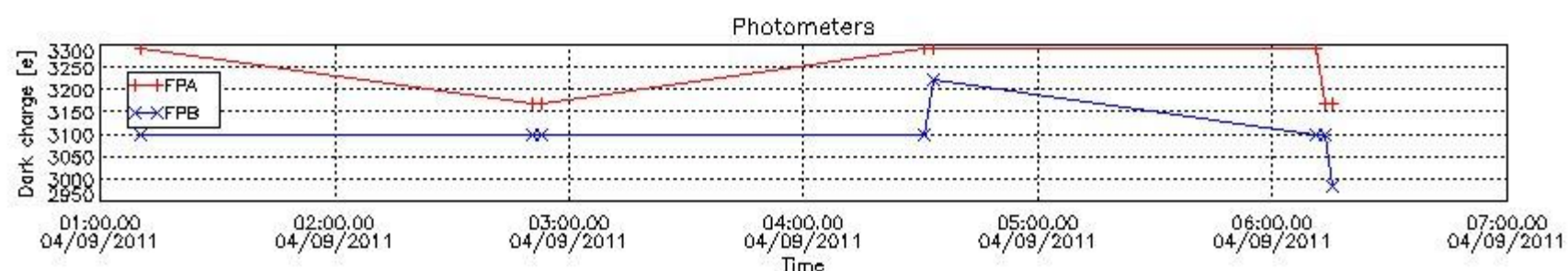
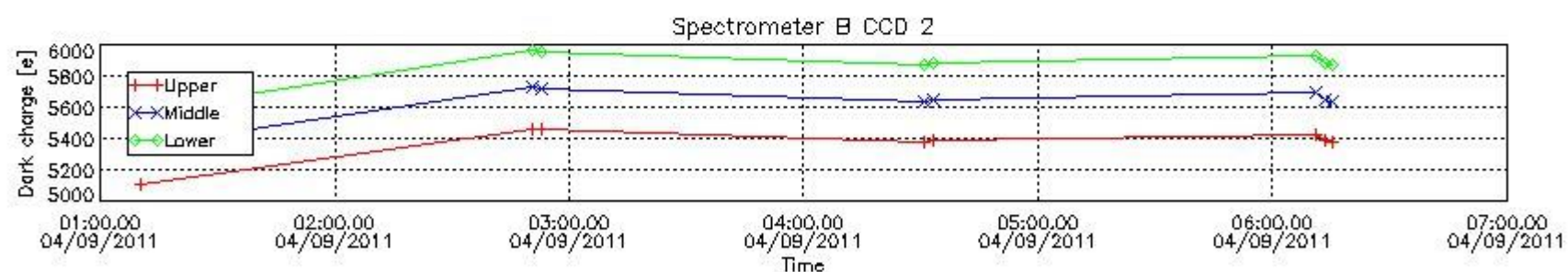
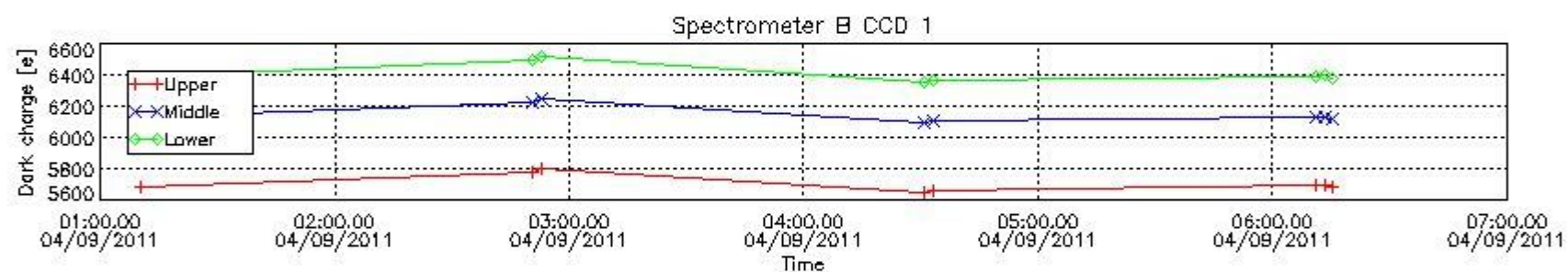
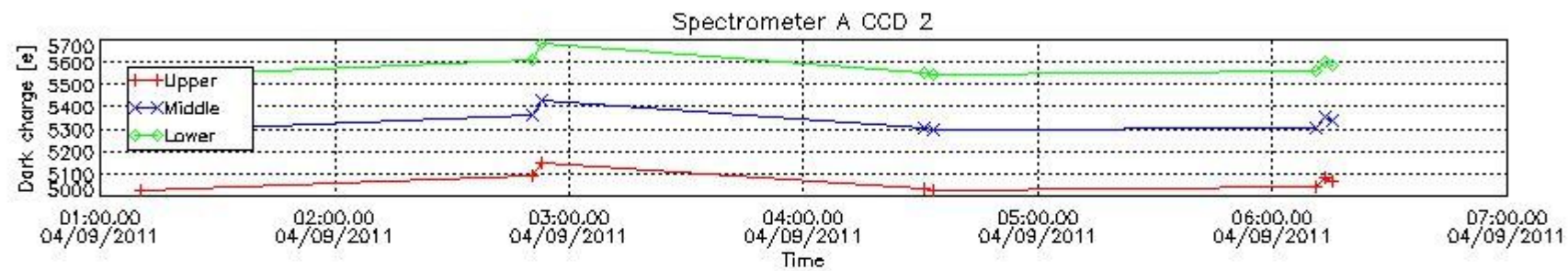
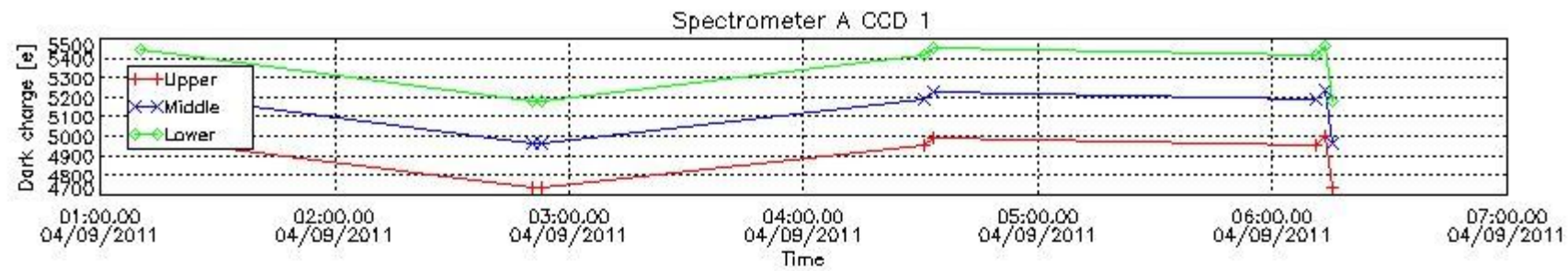
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20110904_000241_000000483106_00160_49743_2746.N1	DC map used
GOM_TRA_1PNPDE20110904_003157_000000413106_00160_49743_2747.N1	DC map used
GOM_TRA_1PNPDE20110904_010216_000000443106_00160_49743_2748.N1	DC map used
GOM_TRA_1PNPDE20110904_011013_000000513106_00160_49743_2814.N1	DC map used
GOM_TRA_1PNPDE20110904_013706_000000493106_00161_49744_2815.N1	DC map used
GOM_TRA_1PNPDE20110904_014255_000000463106_00161_49744_2816.N1	DC map used
GOM_TRA_1PNPDE20110904_015204_000000403106_00161_49744_2817.N1	DC map used
GOM_TRA_1PNPDE20110904_021211_000000413106_00161_49744_2818.N1	DC map used
GOM_TRA_1PNPDE20110904_024032_000000533106_00161_49744_2819.N1	DC map used
GOM_TRA_1PNPDE20110904_024231_000000463106_00161_49744_2820.N1	DC map used
GOM_TRA_1PNPDE20110904_025027_000000563106_00161_49744_2821.N1	DC map used
GOM_TRA_1PNPDE20110904_025306_000000483106_00161_49744_2822.N1	DC map used
GOM_TRA_1PNPDE20110904_031720_000000463106_00162_49745_2823.N1	DC map used
GOM_TRA_1PNPDE20110904_035224_000000443106_00162_49745_2824.N1	DC map used



GOM_TRA_1PNPDE20110904_043042_000000493106_00162_49745_2855.N1	DC map used
GOM_TRA_1PNPDE20110904_043321_000000463106_00162_49745_2856.N1	DC map used
GOM_TRA_1PNPDE20110904_045735_000000473106_00163_49746_2857.N1	DC map used
GOM_TRA_1PNPDE20110904_053238_000000443106_00163_49746_2858.N1	DC map used
GOM_TRA_1PNPDE20110904_060300_000000563106_00163_49746_2901.N1	DC map used
GOM_TRA_1PNPDE20110904_061057_000000533106_00163_49746_2902.N1	DC map used
GOM_TRA_1PNPDE20110904_061335_000000473106_00163_49746_2903.N1	DC map used
GOM_TRA_1PNPDE20110904_061528_000000453106_00163_49746_2904.N1	DC map used

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



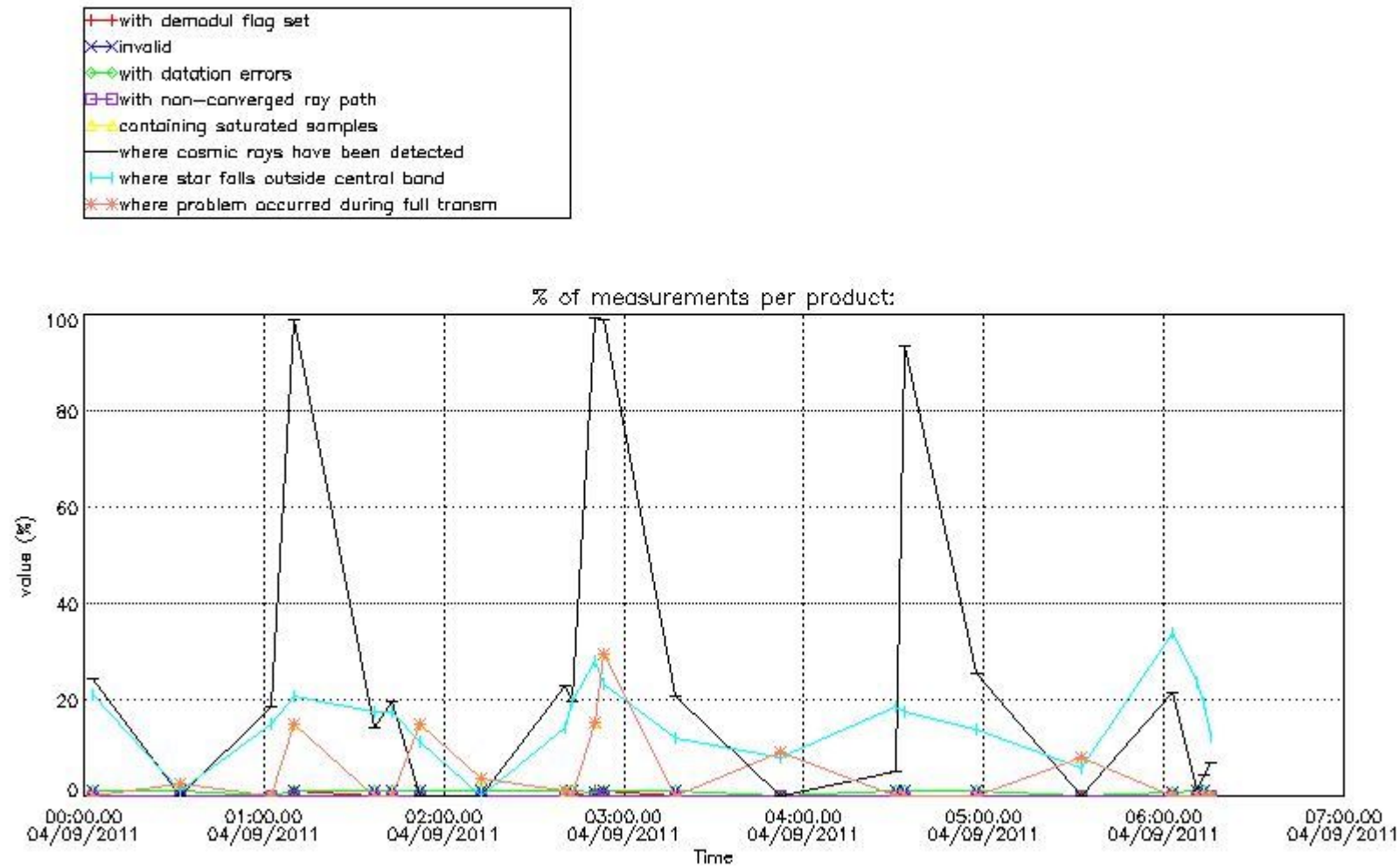
## 5. Demodulation flag and quality information monitoring

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.

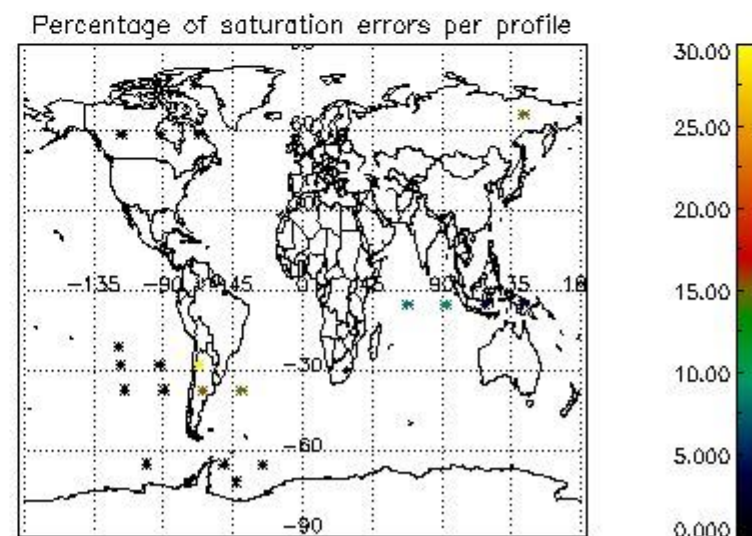
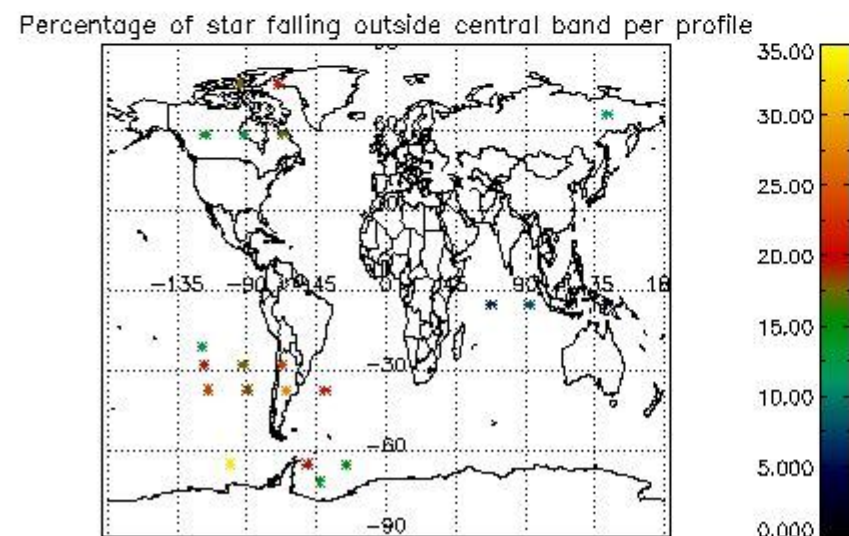
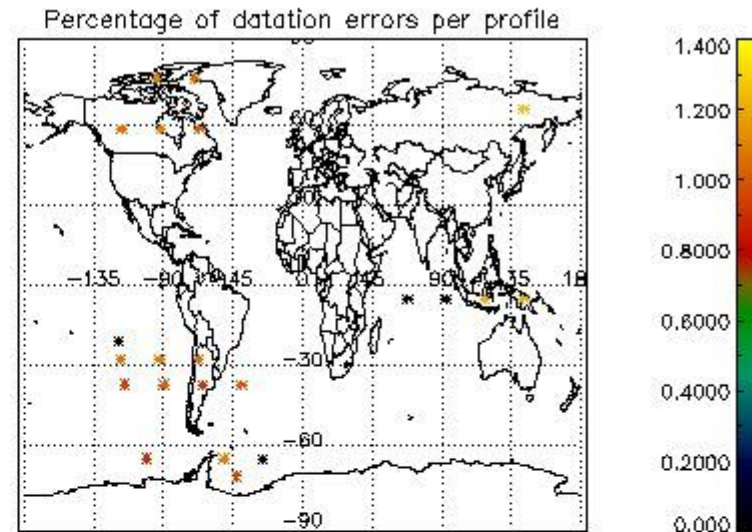
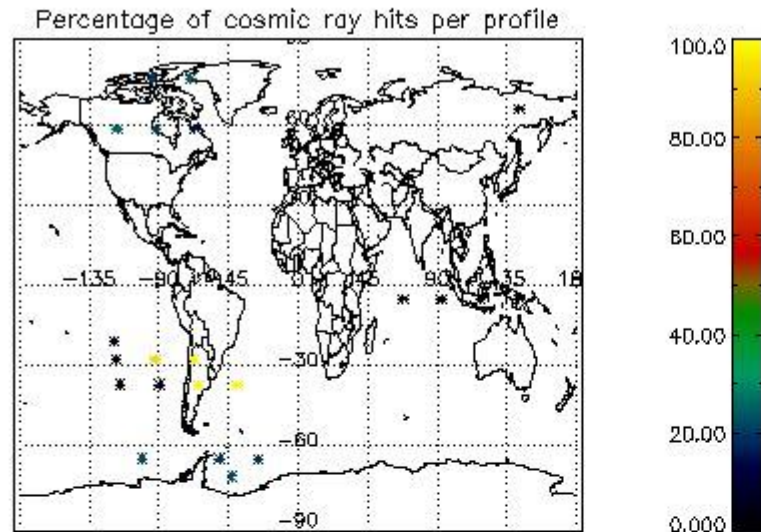
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	77.2727 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	22.7273 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)



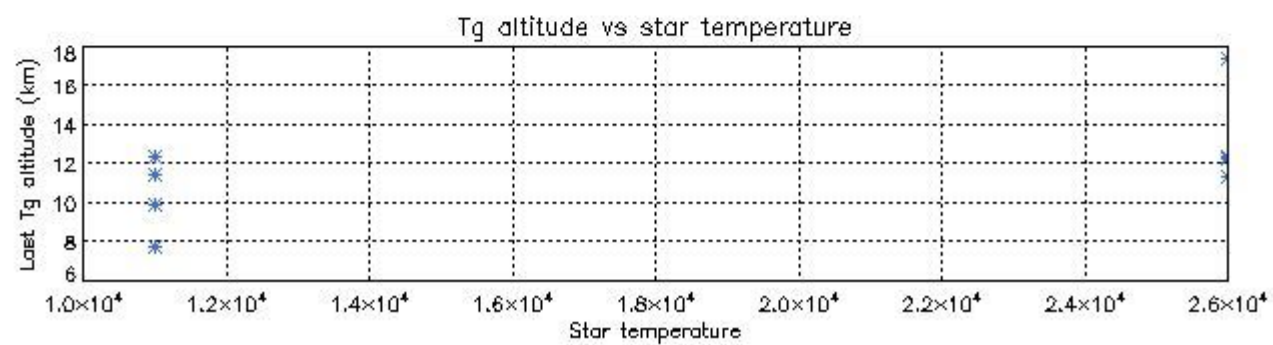
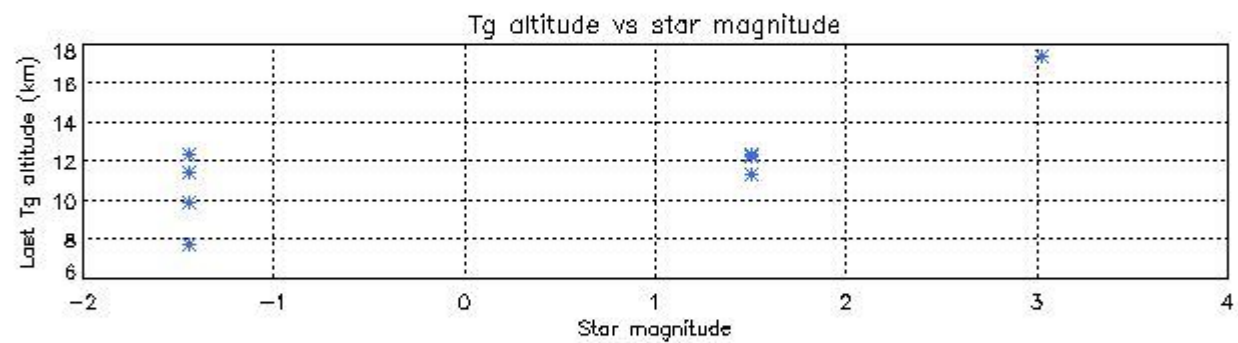
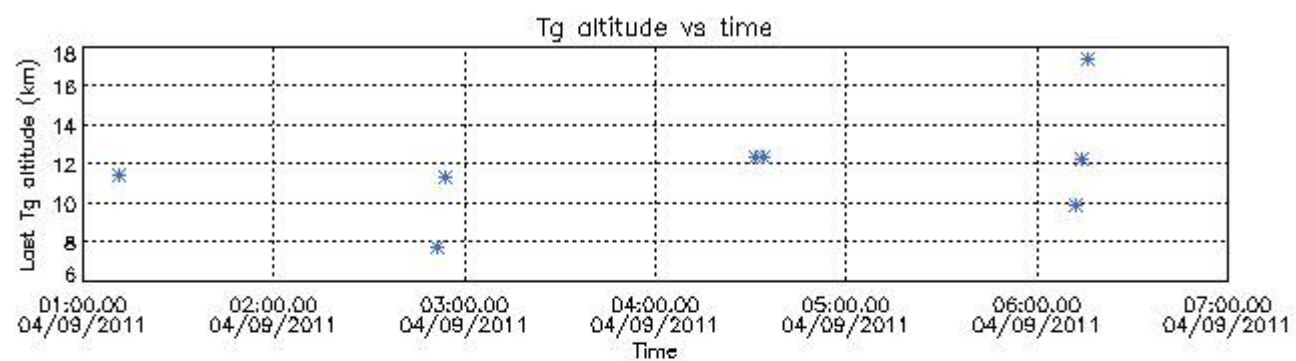
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.846	22.707	9.9210
St. deviation:	2.7545	4.3134	5.0715
Maximum:	17.426	27.358	13.977
Minimum:	7.7279	16.714	4.2348
Number of data:	8.0000	5.0000	3.0000

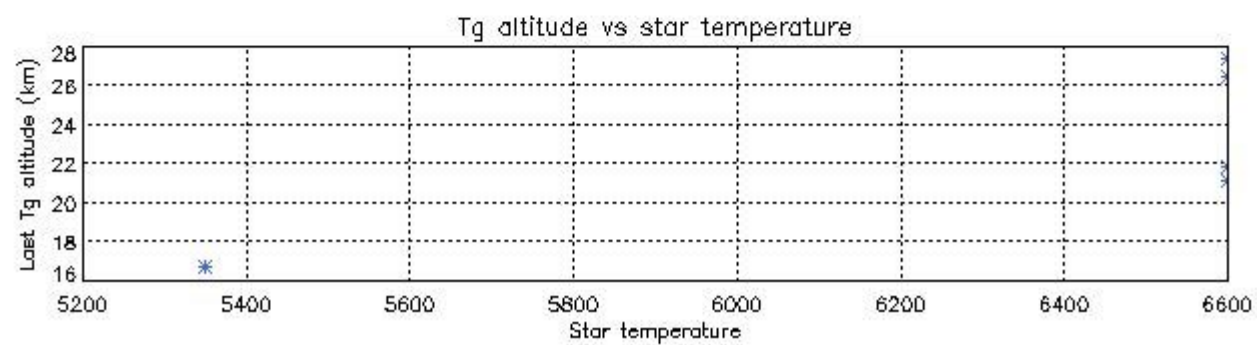
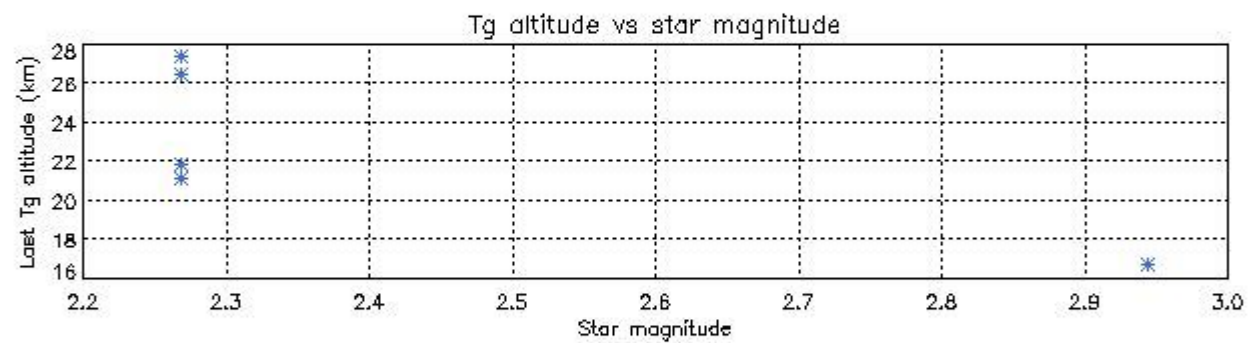
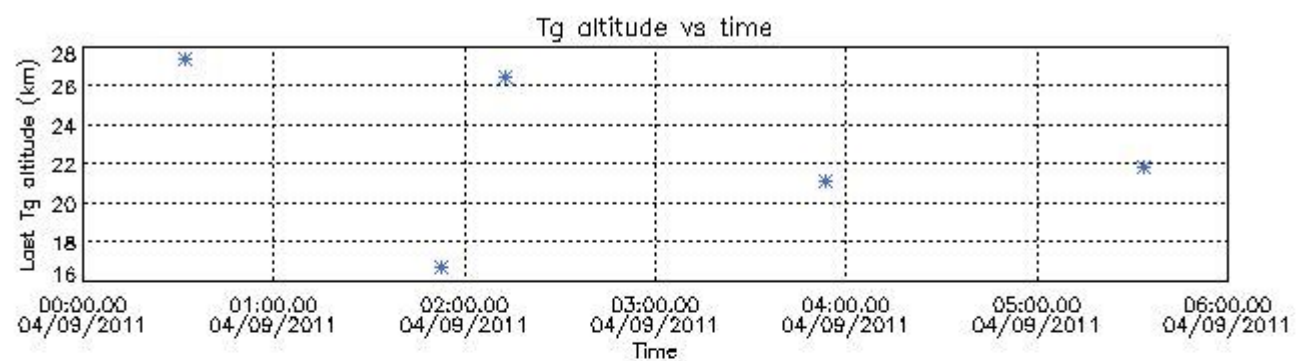
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



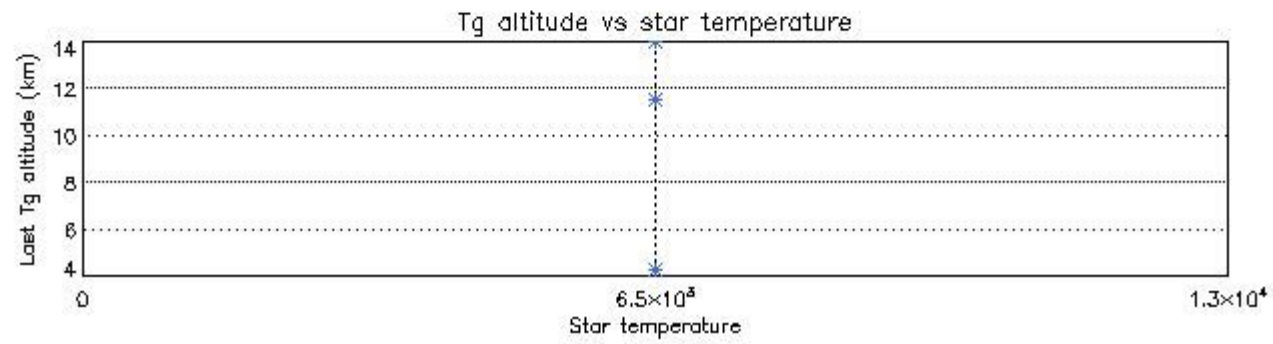
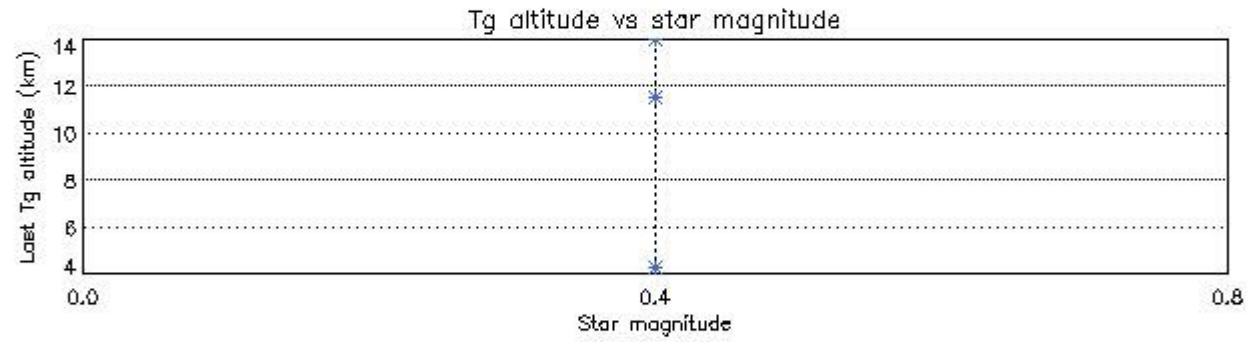
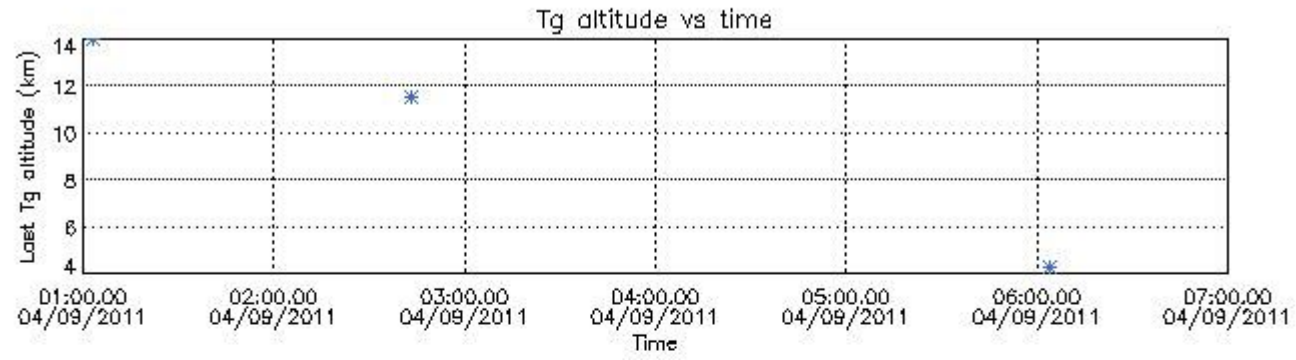
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

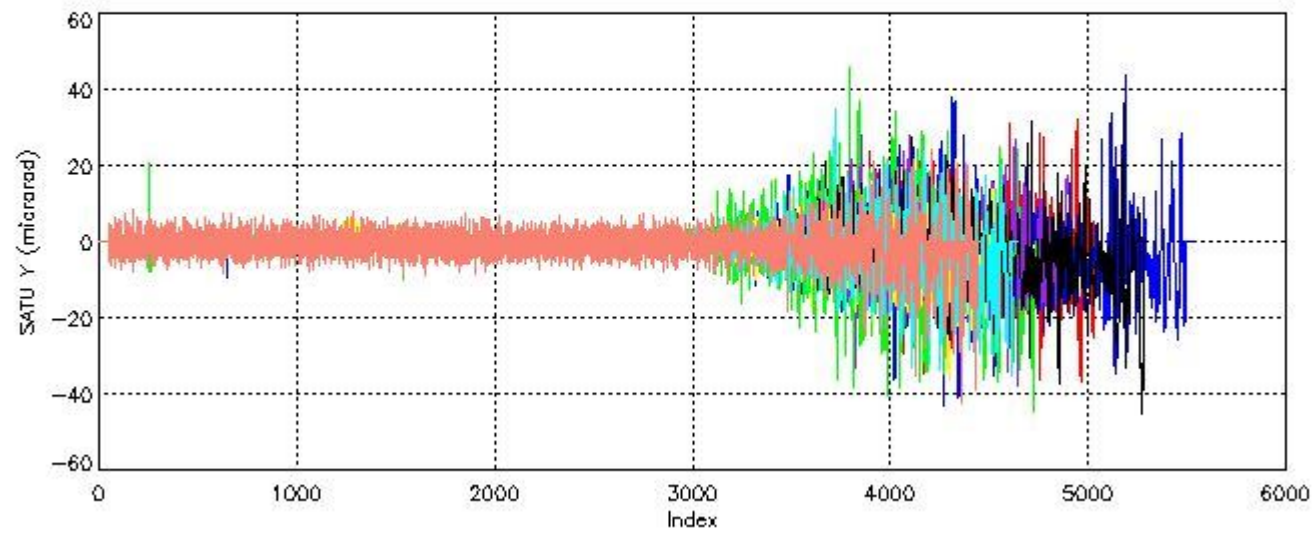
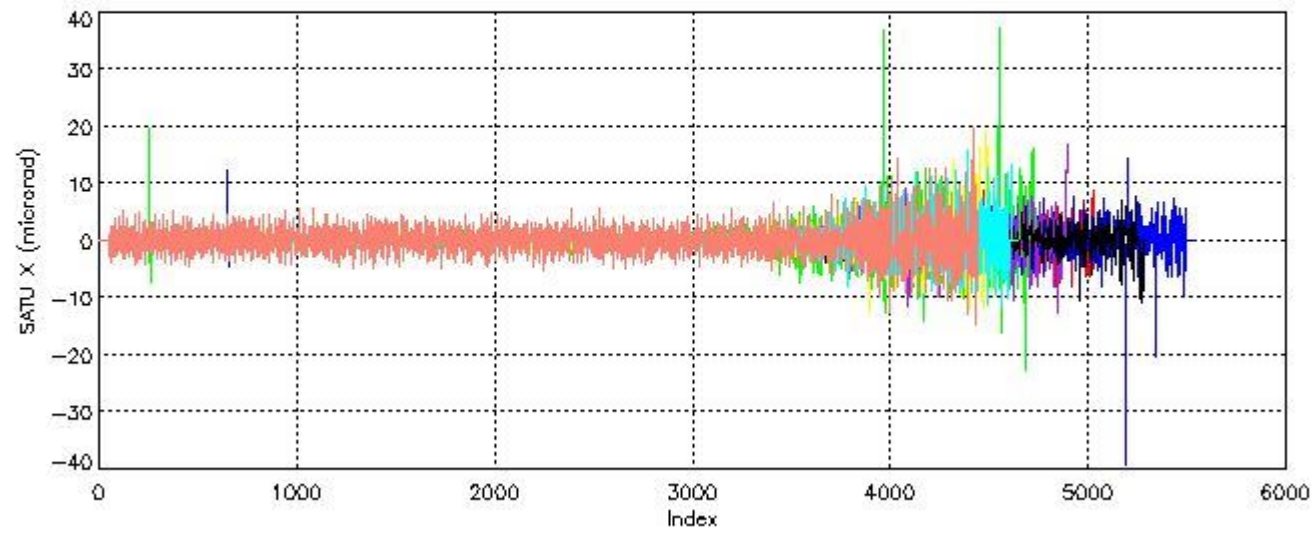


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11483	-0.23555	0.17282	0.018334
St. deviation:	0.59289	1.0151	0.78521	1.3739
Maximum:	19.800	20.500	3.3000	11.600
Minimum:	-7.5000	-9.6000	-2.8000	-3.9000

Number of data:	7950.0	7950.0	5200.0	5200.0
90Percentile:	0.70000	0.90000	1.2000	1.7000

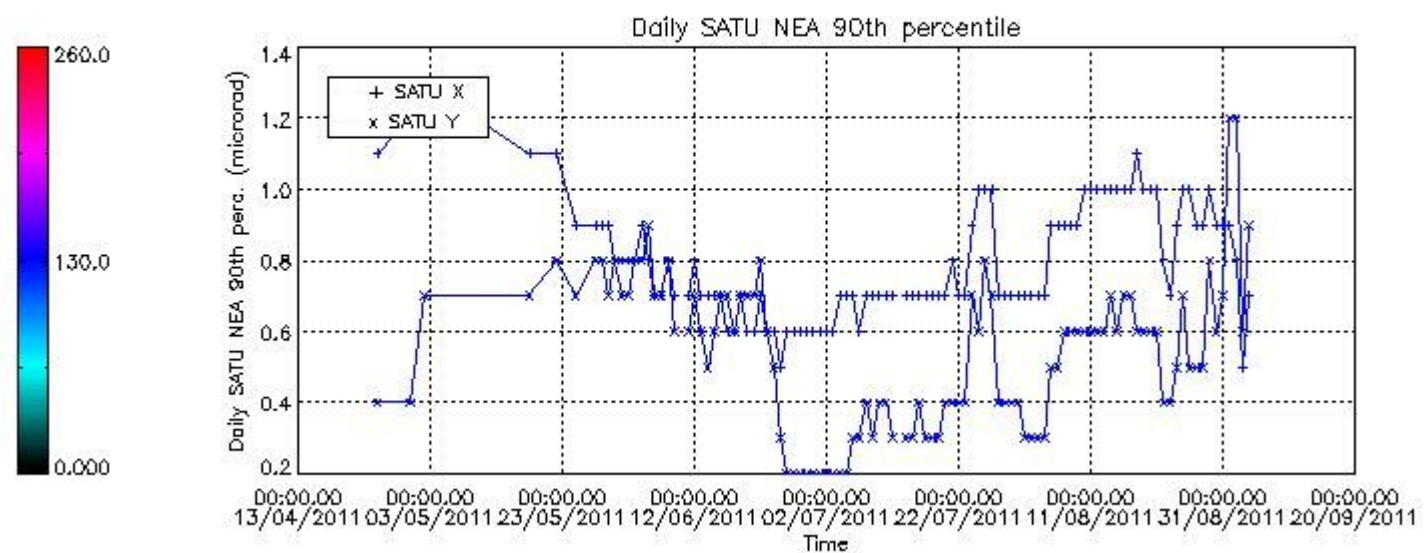
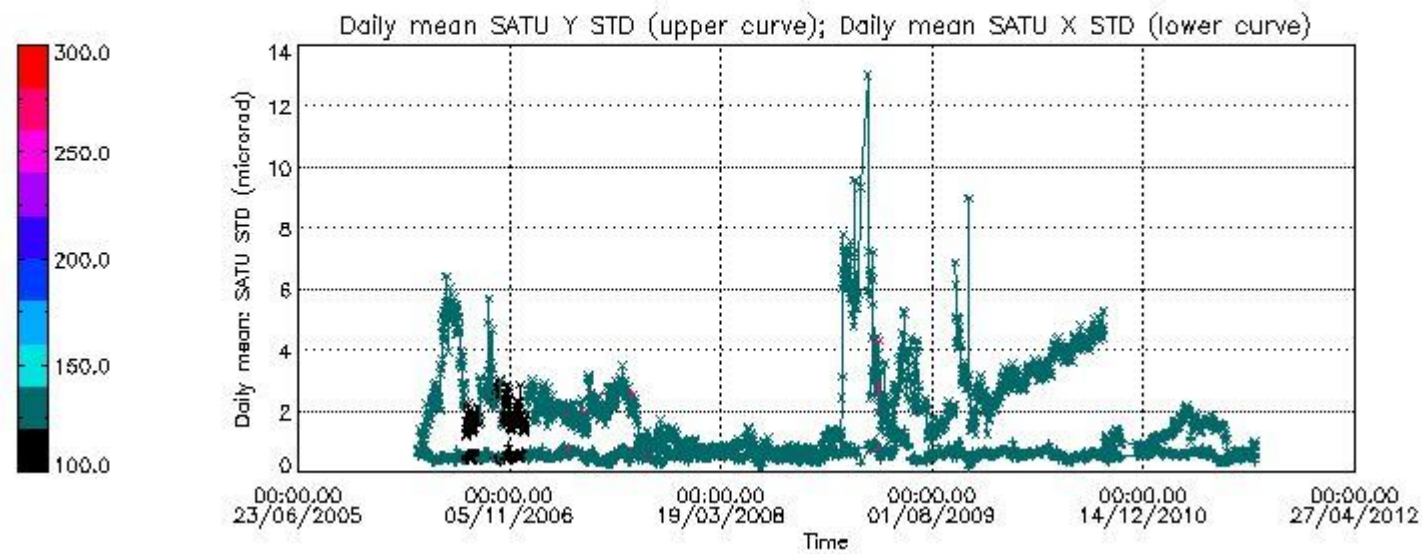
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

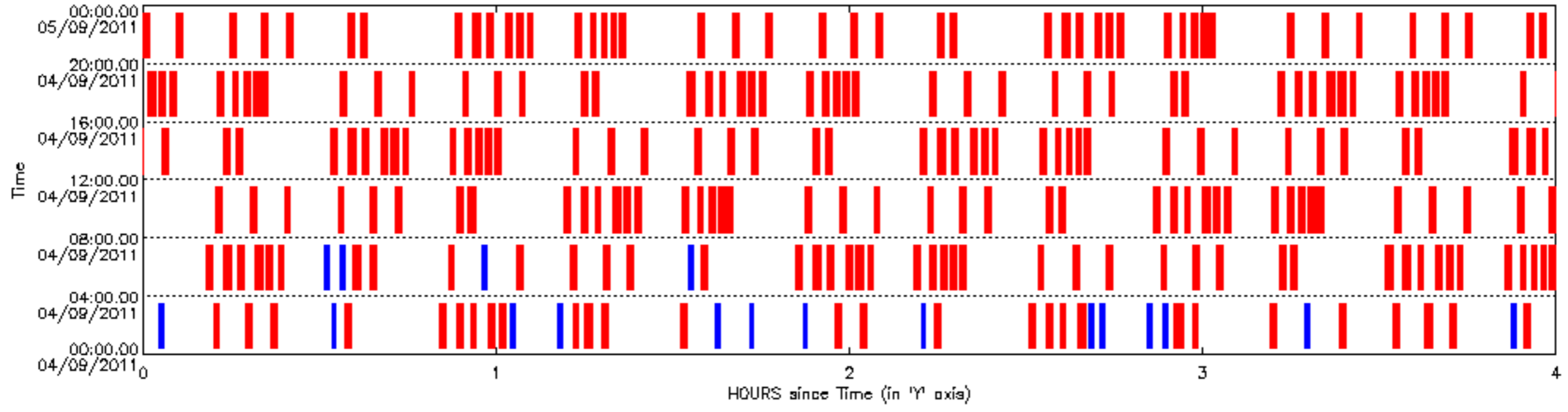


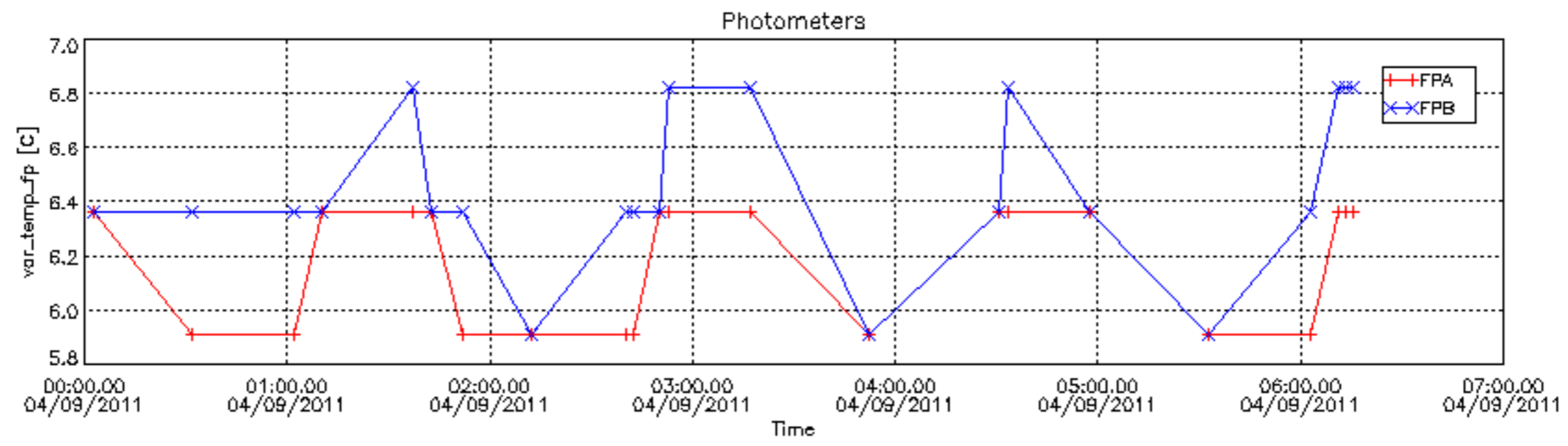
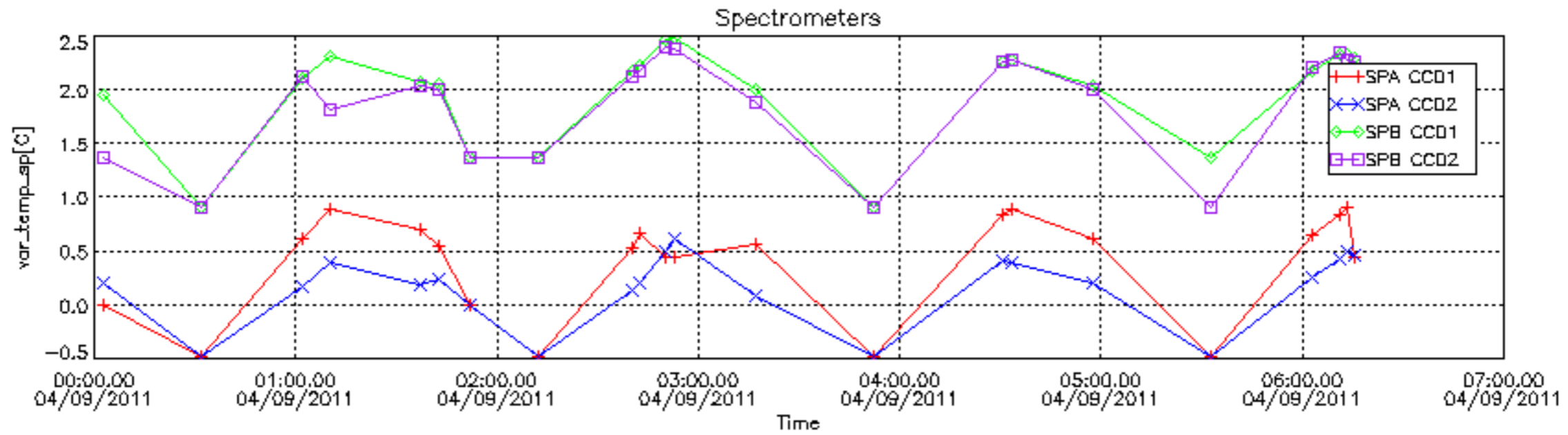
### 8. Auxiliary Data Files used for the production reported in section 2.4

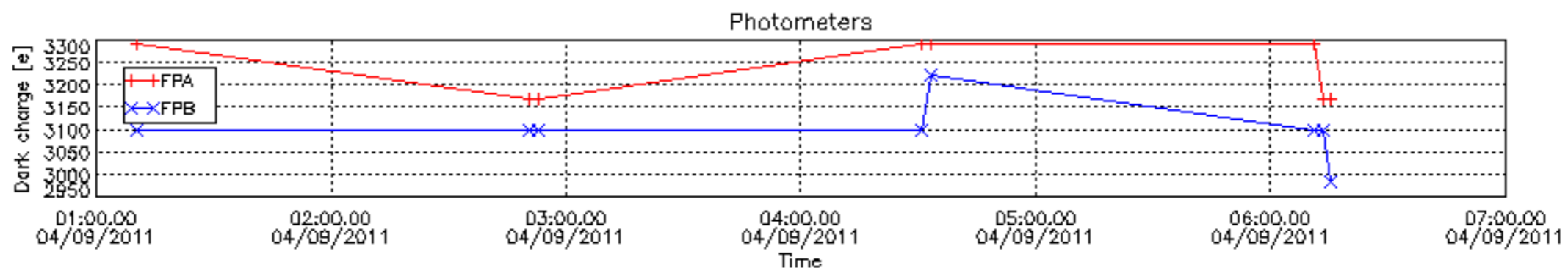
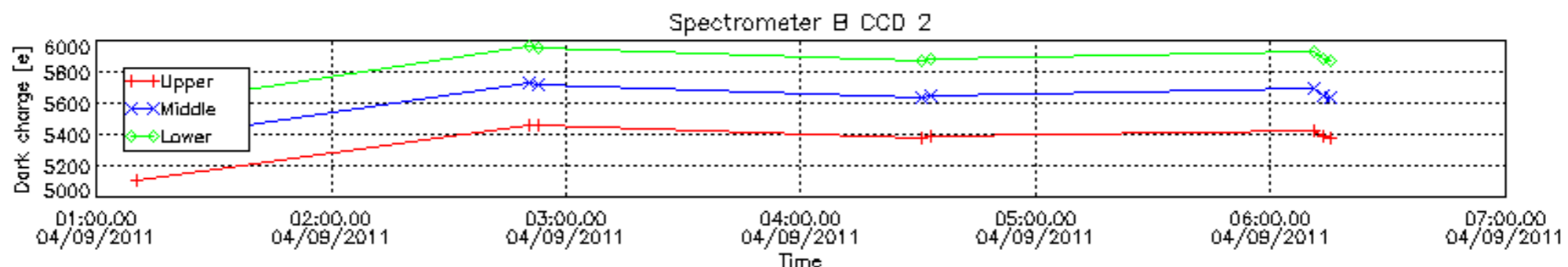
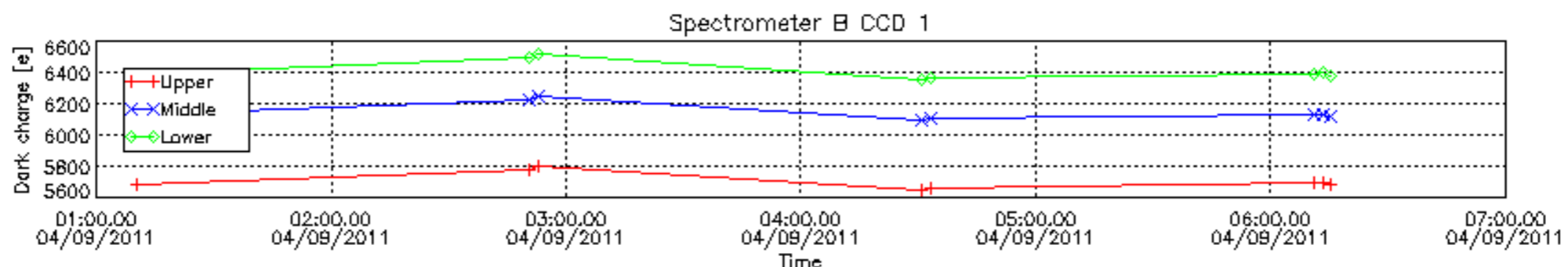
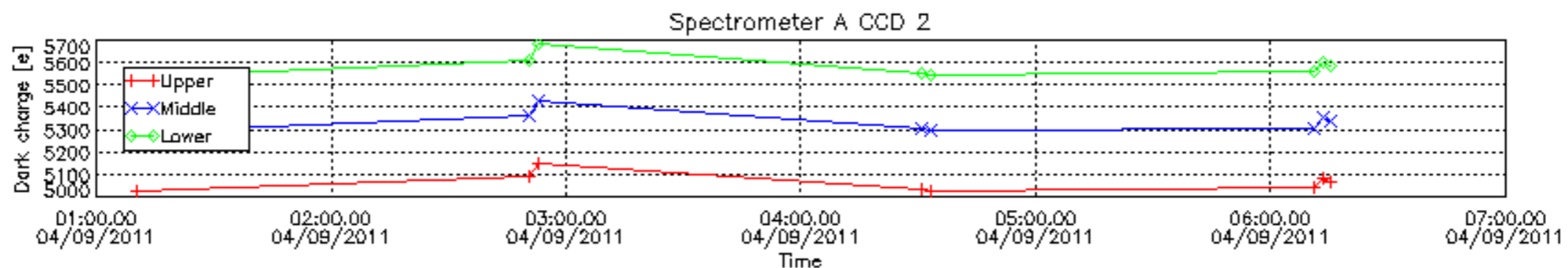
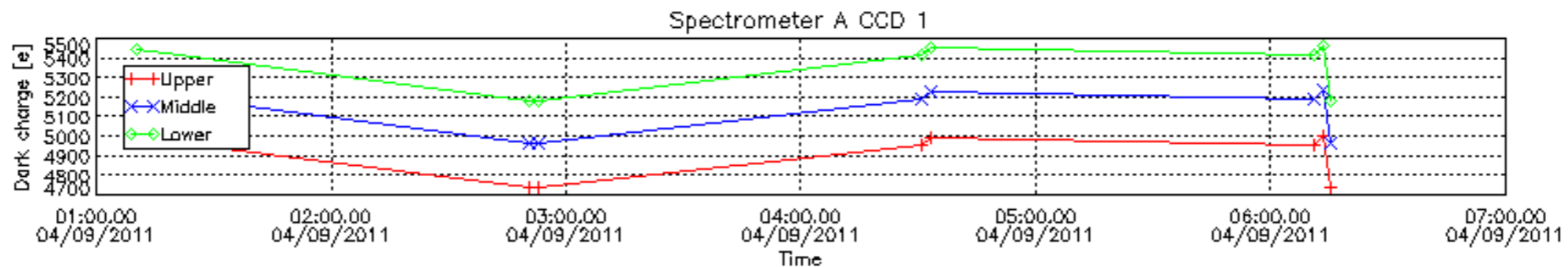
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.



Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-SEP-2011 00:02:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110831_072221_20110829_000000_20500101_000000	1	04-SEP-2011 00:02:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	04-SEP-2011 00:02:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-SEP-2011 00:02:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	04-SEP-2011 00:02:41
ECMWF_FILE	AUX_ECF_AXNECM20110903_063419_20110903_210000_20110904_090000	1	04-SEP-2011 00:02:41
ECMWF_FILE	AUX_ECF_AXNECM20110903_181444_20110904_030000_20110904_150000	15	04-SEP-2011 04:30:42
ECMWF_FILE	AUX_ECA_AXNECM20110904_062114_20110903_210000_20110904_090000	19	04-SEP-2011 06:03:00
OPTIONAL_ECMWF_FILE	MISSING	1	04-SEP-2011 00:02:41
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110903_101416_20110902_191629_20110912_213013	1	04-SEP-2011 00:02:41

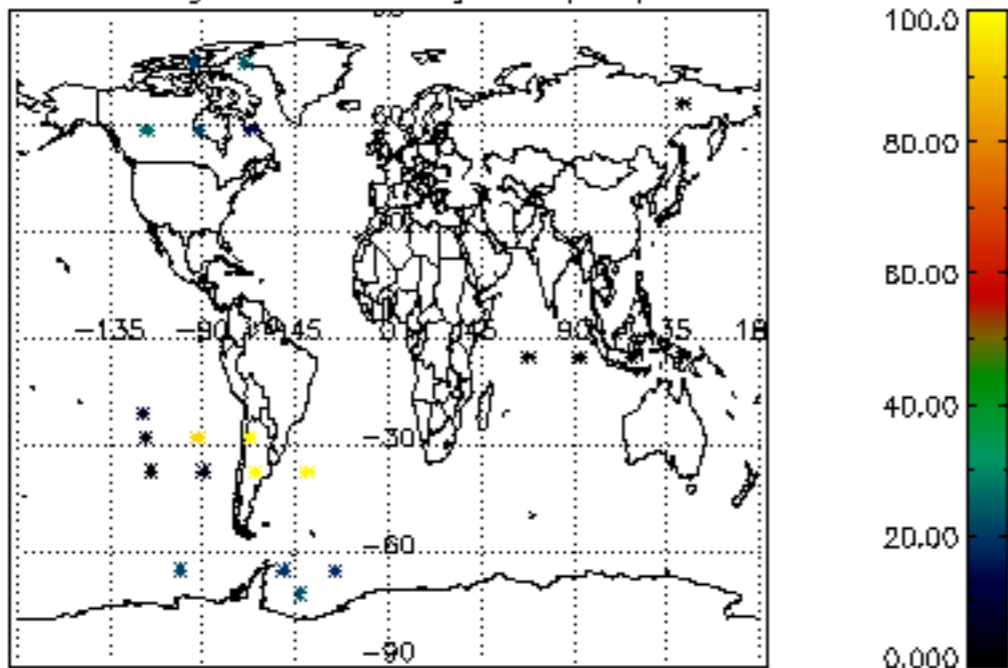




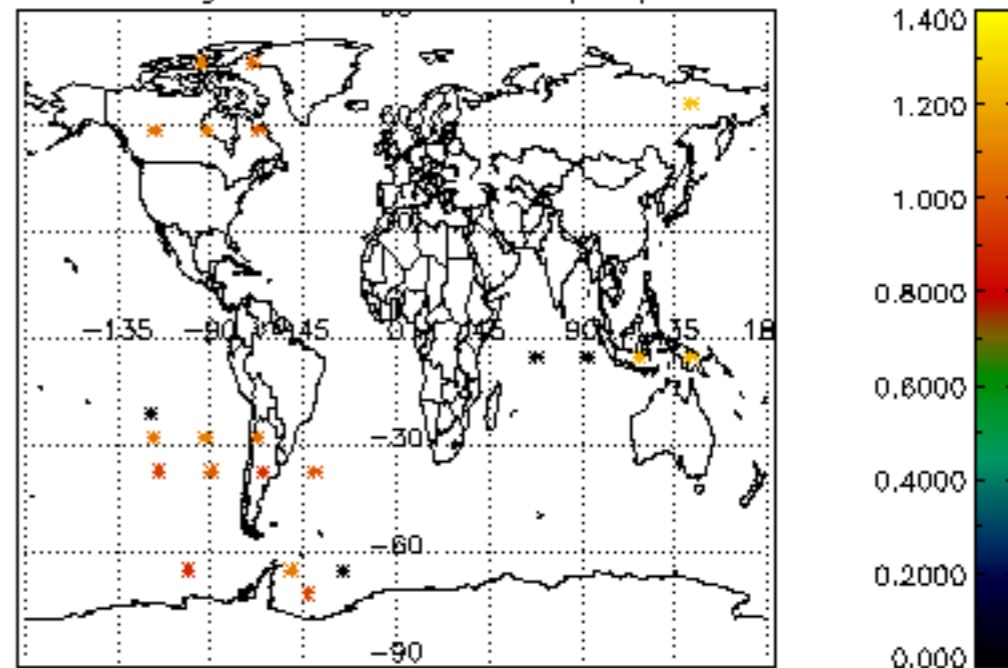




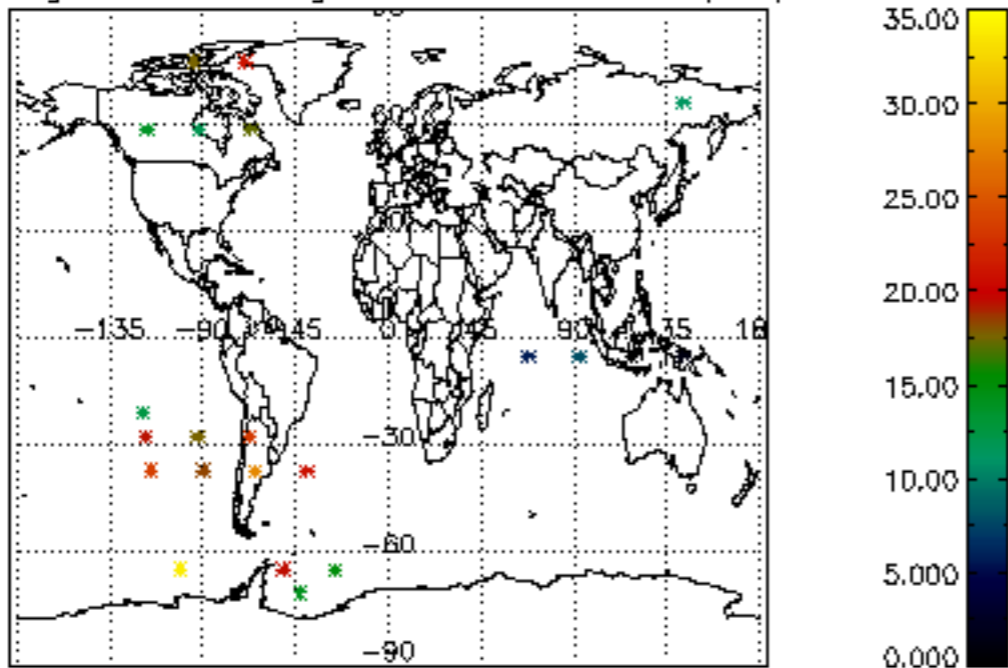
Percentage of cosmic ray hits per profile



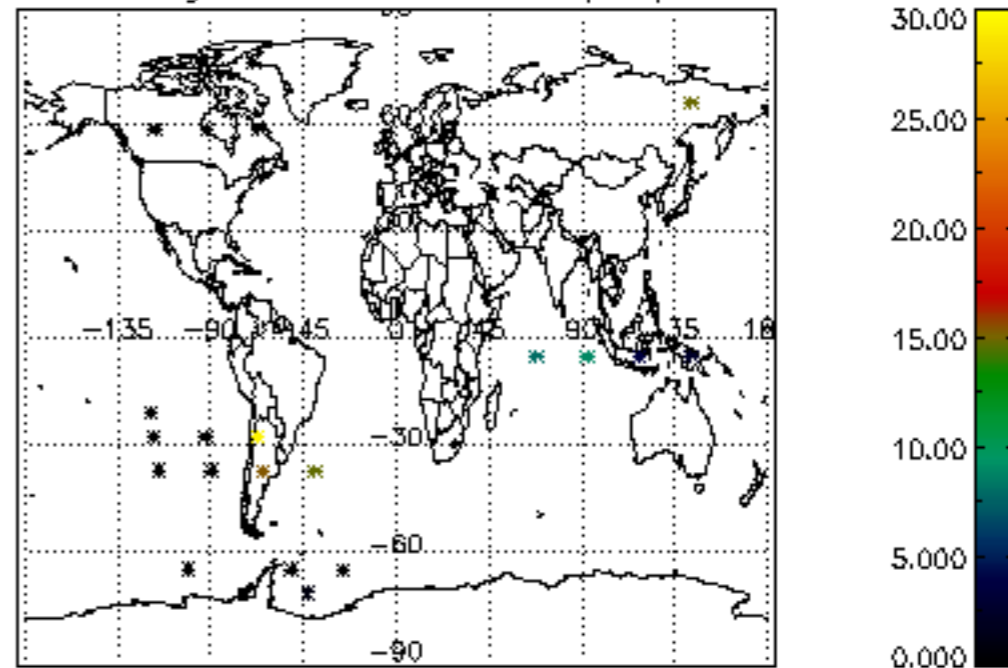
Percentage of datation errors per profile



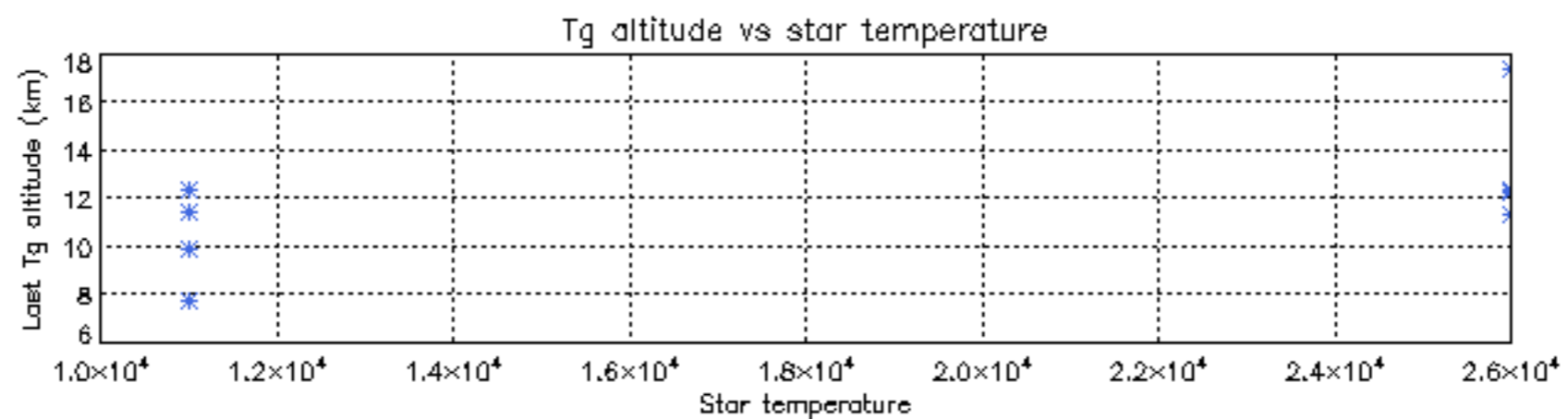
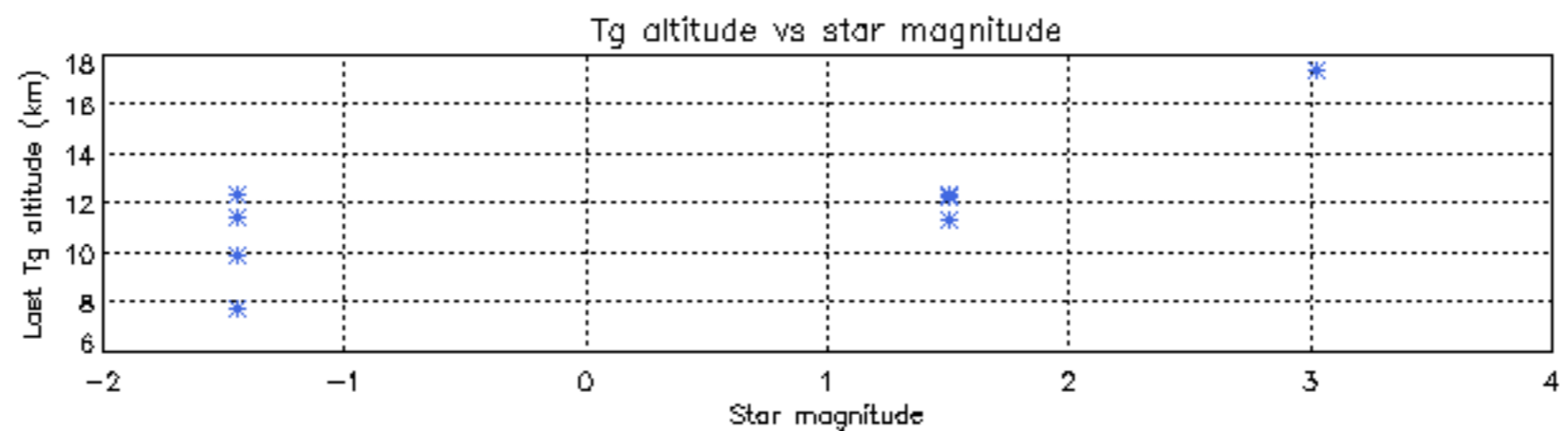
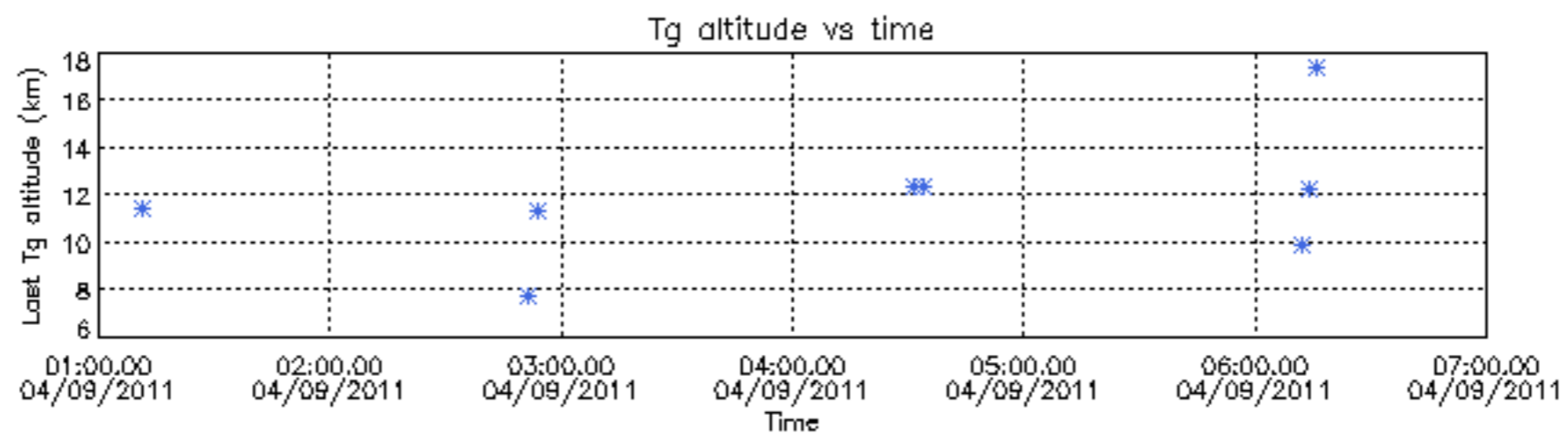
Percentage of star falling outside central band per profile



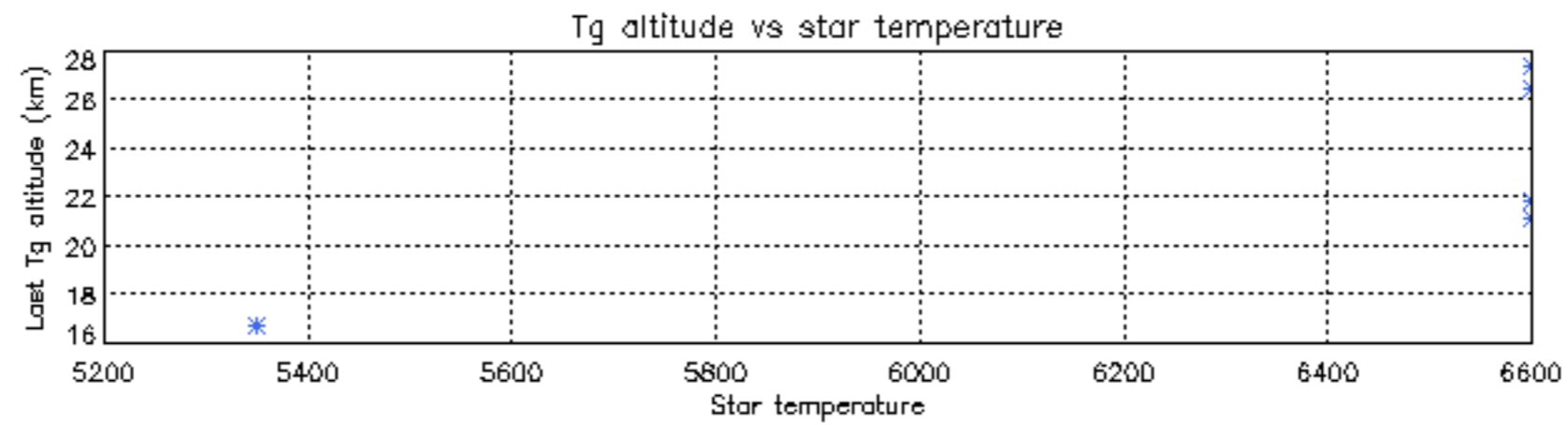
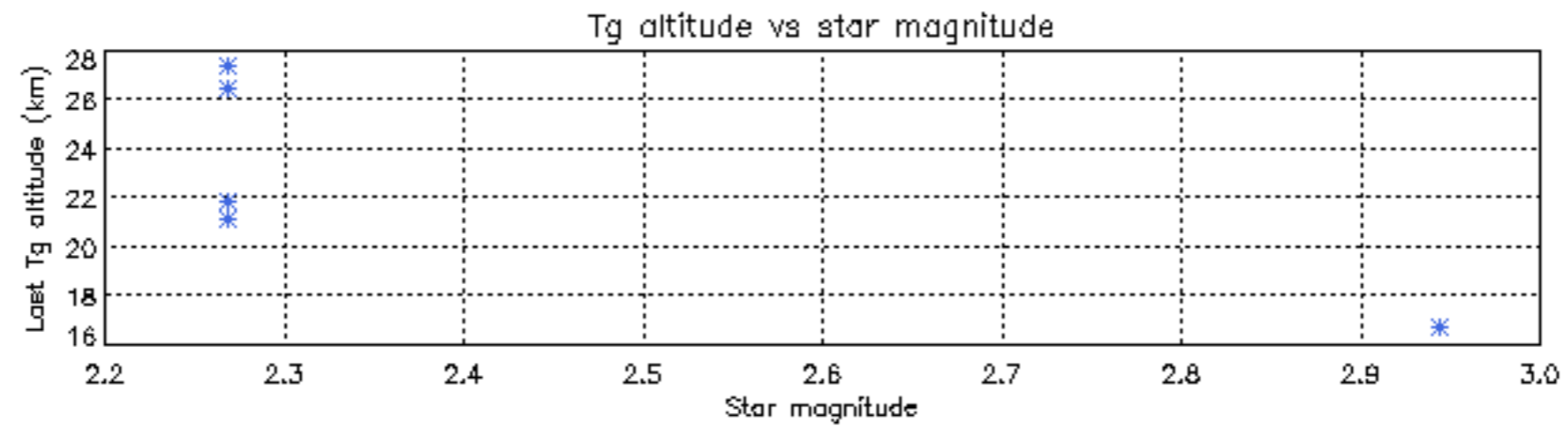
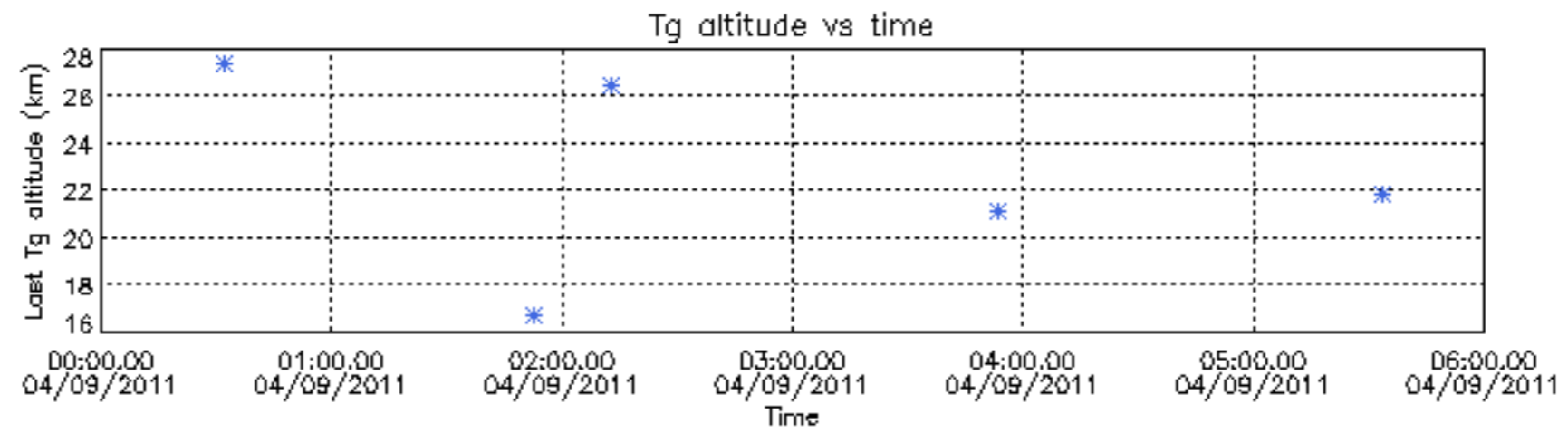
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

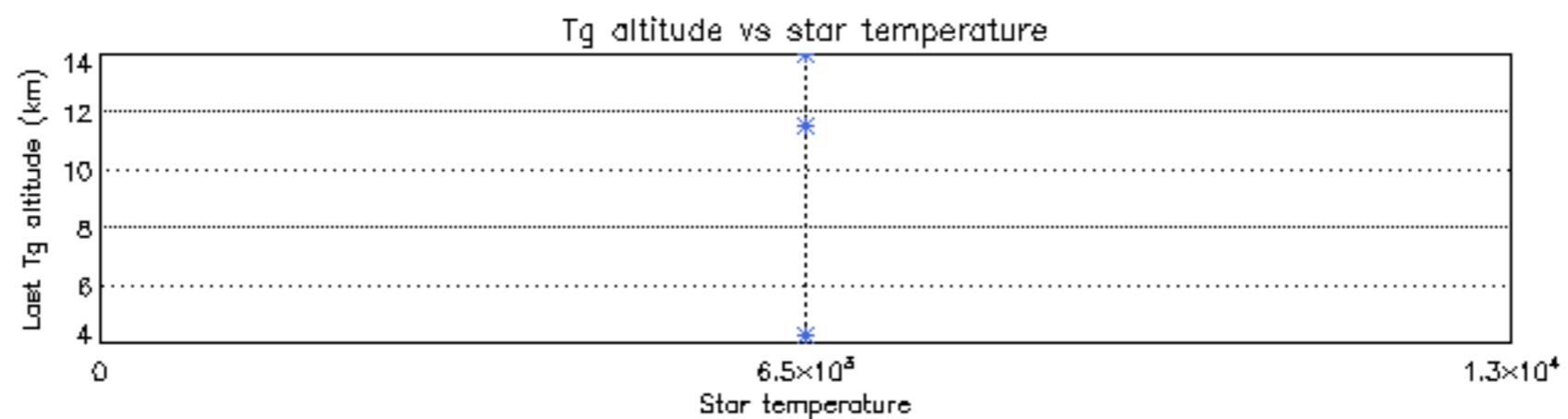
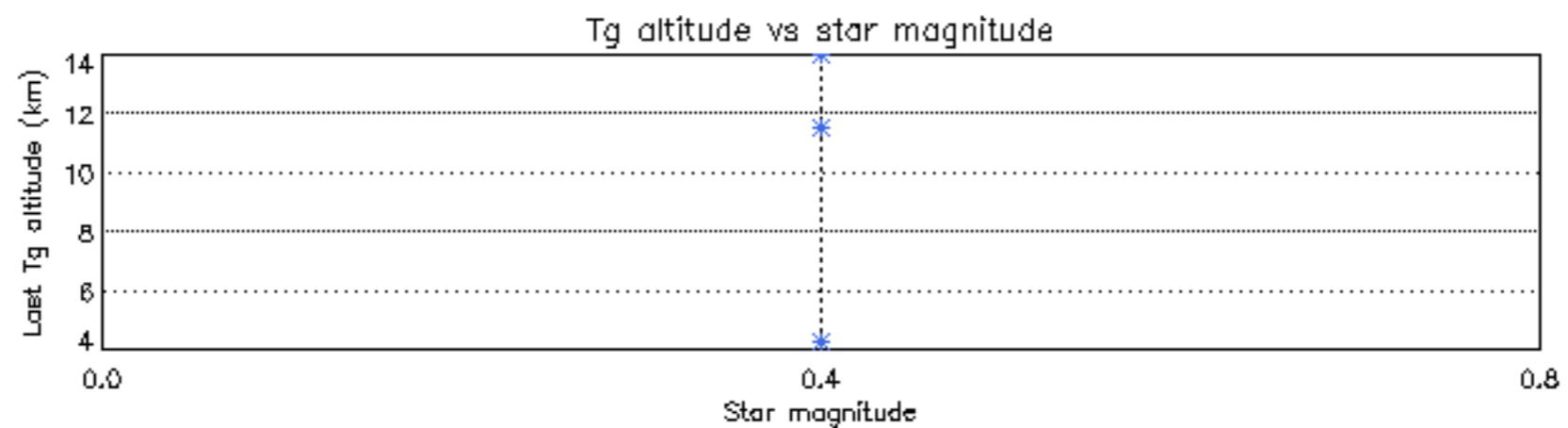
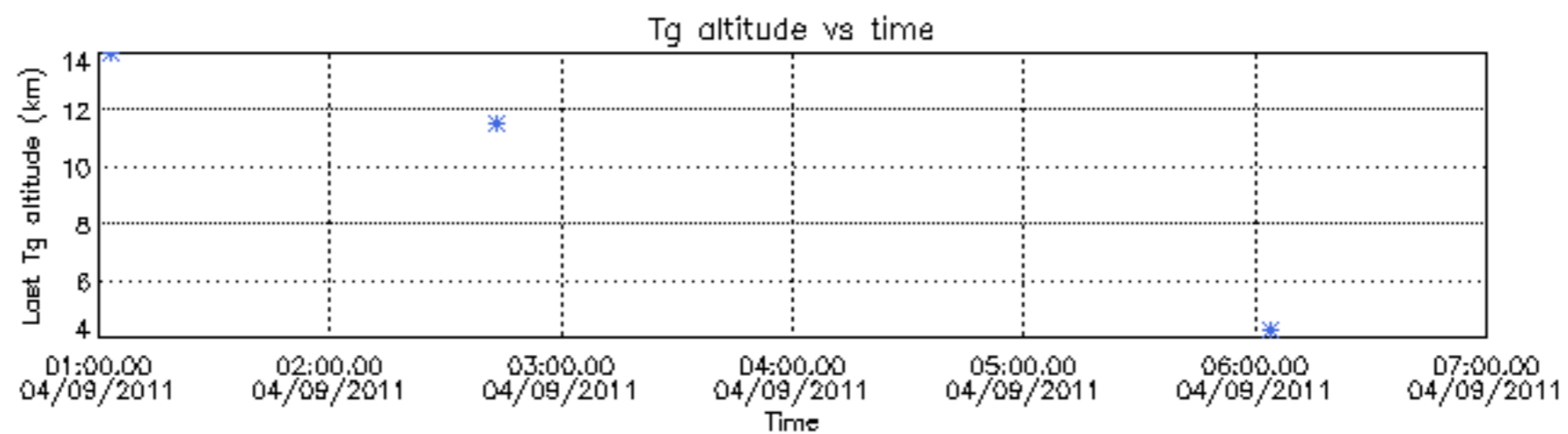


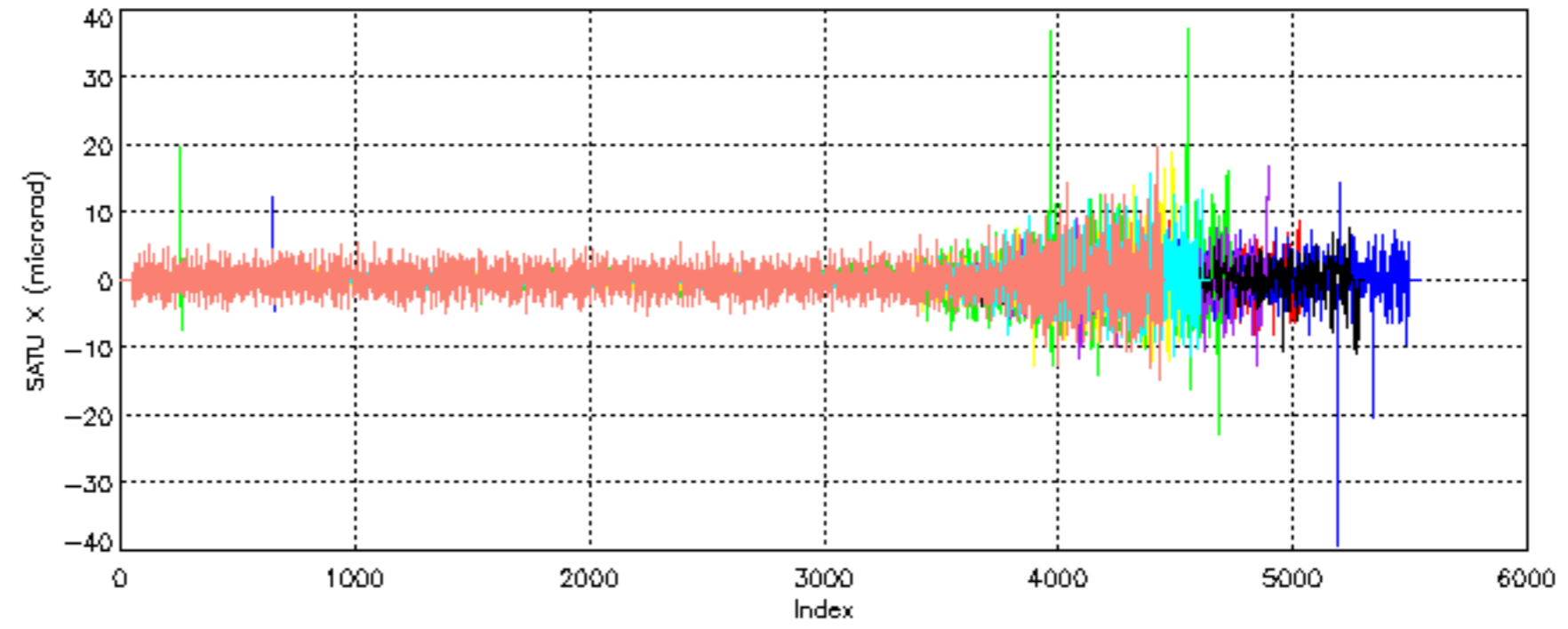
Tangent altitude at which the star is lost

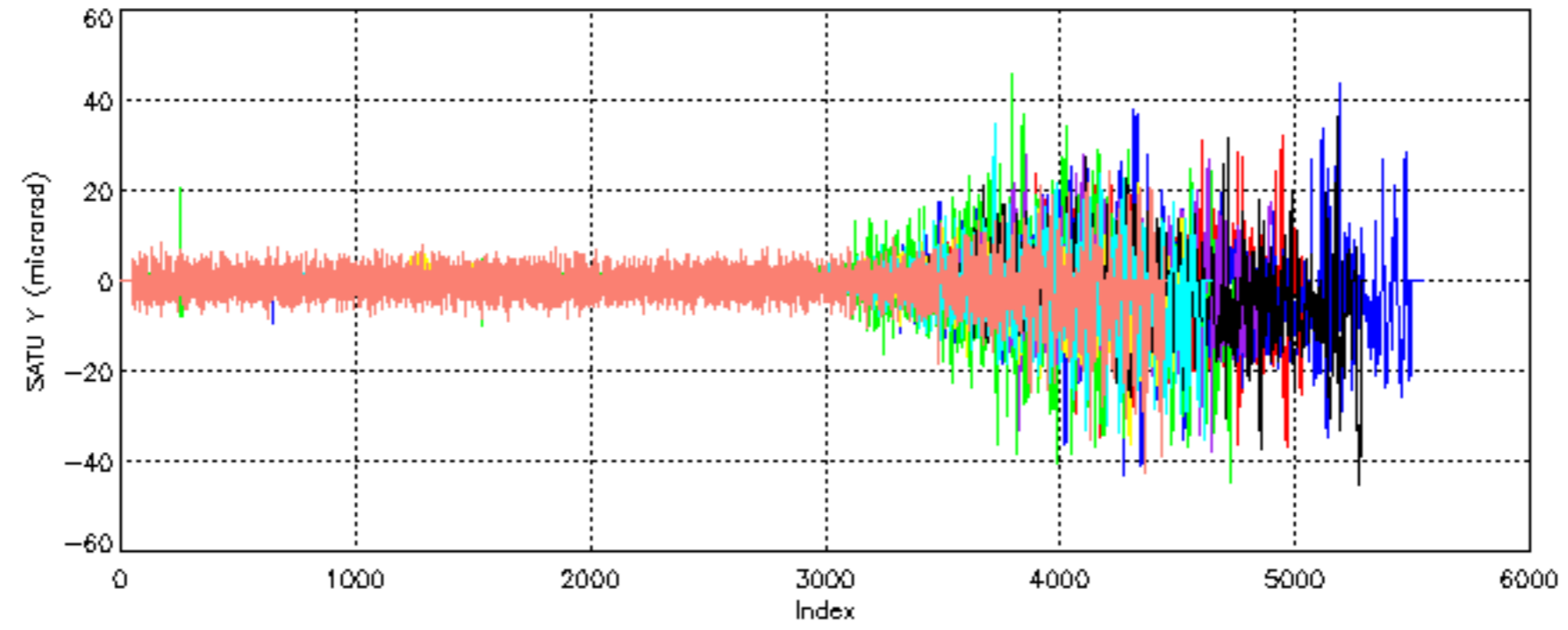


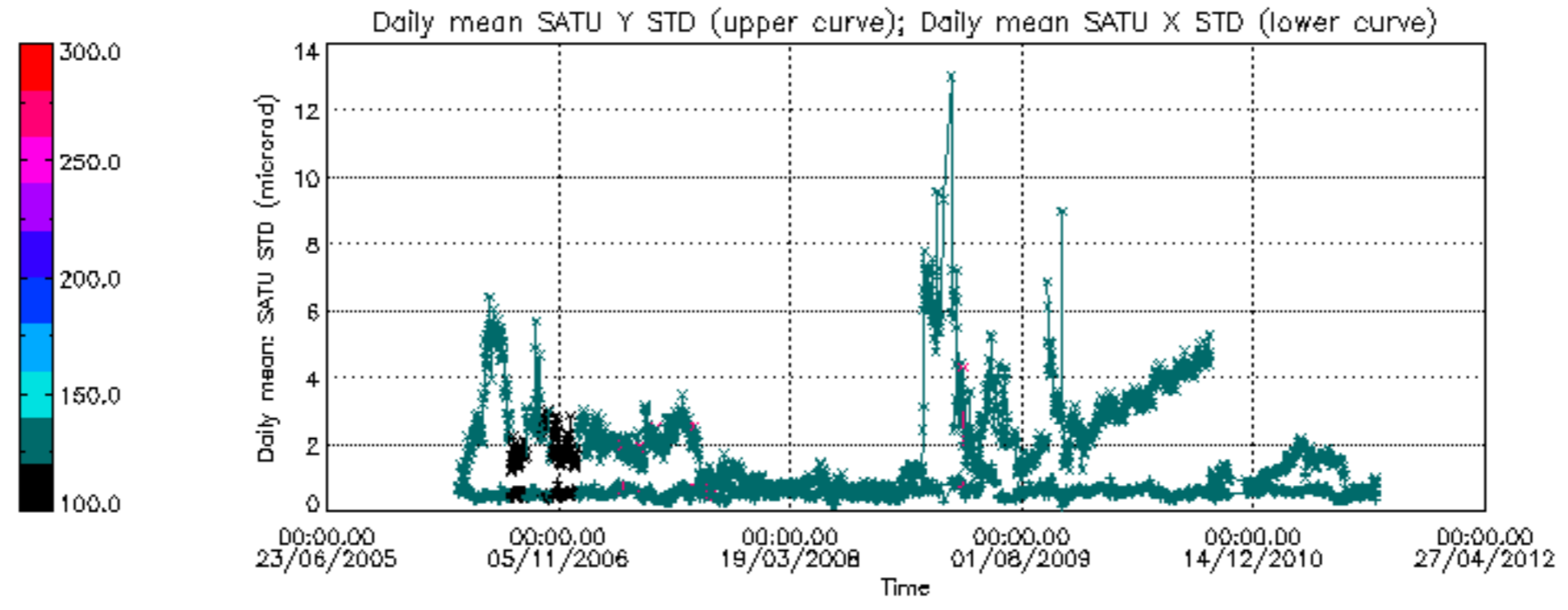


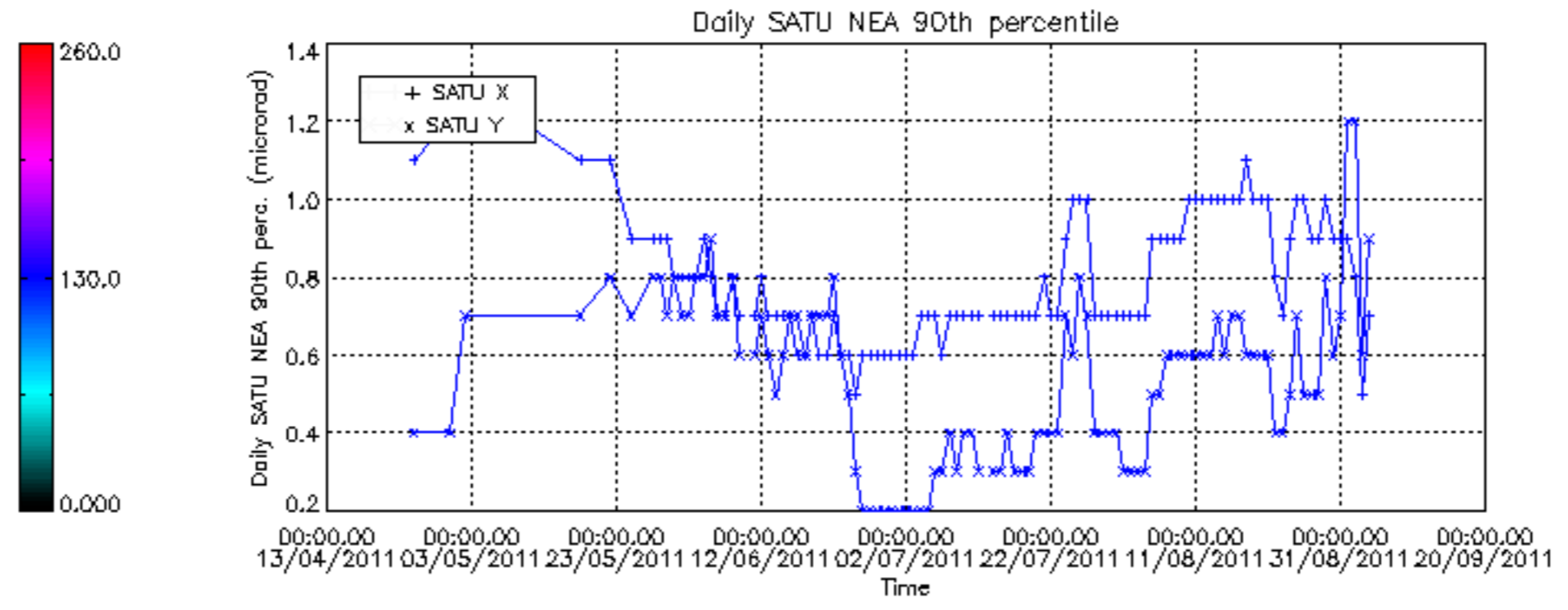
Tangent altitude at which the star is lost











/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

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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

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2; 965.6; 01-SEP-2011 13:28:23; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;49708

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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

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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

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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

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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

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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  
4; 5376.0; 03-SEP-2011 00:06:33; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 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
6; 7343.1; 02-SEP-2011 12:57:42; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 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
4; 1329.5; 02-SEP-2011 14:37:56; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;49723
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2; -641.2; 02-SEP-2011 15:45:20; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;49723
3; -560.7; 02-SEP-2011 15:46:40; Dark ; 52.0; 47; 2Bet CMA ; 1.98; 28000;occ; 104; 0;49723
4; 974.4; 02-SEP-2011 16:12:15; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49724
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2; 3102.3; 02-SEP-2011 16:47:43; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;49724
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
5; 6989.0; 02-SEP-2011 17:52:30; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;49725
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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; 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
7; 5455.0; 02-SEP-2011 19:07:10; Dark ; 49.5; 47; 2Bet CMA ; 1.98; 28000;occ; 99; 0;49725
8; 6989.4; 02-SEP-2011 19:32:44; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49726
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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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2; 977.0; 03-SEP-2011 00:33:28; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49729
3; 1330.9; 03-SEP-2011 00:39:22; Dark ; 25.0; 18; 24Alp PsA ; 1.17; 9700;occ; 50; 0;49729
4; 3099.2; 03-SEP-2011 01:08:50; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 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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2; -476.0; 03-SEP-2011 03:29:43; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;49730
3; 3098.3; 03-SEP-2011 04:29:17; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;49731
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2; -475.4; 03-SEP-2011 05:09:57; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;49731
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
5; 3097.7; 03-SEP-2011 06:09:30; Bright; 31.0; 74; 11Bet Cas ; 2.27; 6600;occ; 62; 0;49732
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2; 1334.1; 03-SEP-2011 20:42:13; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;49741
3; 1883.5; 03-SEP-2011 20:51:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;49741
4; 3092.2; 03-SEP-2011 21:11:31; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 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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2; -469.0; 03-SEP-2011 23:32:37; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;49742
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
5; 4910.2; 04-SEP-2011 01:02:16; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;49743
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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
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6; 1342.0; 06-SEP-2011 02:09:47; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49773
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4; -133.5; 06-SEP-2011 21:47:59; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;49784

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3; 3070.7; 06-SEP-2011 12:40:00; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49779
4; 4923.6; 06-SEP-2011 13:10:53; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;49779
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7; 5781.5; 06-SEP-2011 13:25:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49779
8; 5875.2; 06-SEP-2011 13:26:44; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;49779
9; 7018.0; 06-SEP-2011 13:45:47; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;49780

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4; 4443.1; 06-SEP-2011 14:43:06; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;49780  
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6; 5568.3; 06-SEP-2011 15:01:51; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;49780  
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9; 5876.3; 06-SEP-2011 15:06:59; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;49780  
10; 6666.4; 06-SEP-2011 15:20:09; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;49781  
11; 7018.4; 06-SEP-2011 15:26:01; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49781

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2; 2195.8; 06-SEP-2011 15:45:53; Bright; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;49781  
3; 2448.6; 06-SEP-2011 15:50:05; Bright; 39.5; 164; 44Eta Peg ; 2.95; 5400;occ; 79; 0;49781  
4; 3069.7; 06-SEP-2011 16:00:26; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49781  
5; 4924.6; 06-SEP-2011 16:31:21; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;49781  
6; 5414.9; 06-SEP-2011 16:39:32; Dark ; 54.0; 1; 9Alp CMA ;-1.44; 11000;occ; 108; 0;49781  
7; 5569.0; 06-SEP-2011 16:42:06; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;49781  
8; 5688.3; 06-SEP-2011 16:44:05; Dark ; 44.5; 177; 1Zet CMA ; 3.02; 26000;occ; 89; 0;49781  
9; 5783.2; 06-SEP-2011 16:45:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49781  
10; 5877.4; 06-SEP-2011 16:47:14; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;49781  
11; 6667.1; 06-SEP-2011 17:00:24; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;49782  
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2; 2195.6; 06-SEP-2011 17:26:06; Bright; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;49782  
3; 2448.2; 06-SEP-2011 17:30:19; Bright; 41.0; 164; 44Eta Peg ; 2.95; 5400;occ; 82; 0;49782  
4; 3069.3; 06-SEP-2011 17:40:40; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49782  
5; 5415.7; 06-SEP-2011 18:19:46; Dark ; 54.0; 1; 9Alp CMA ;-1.44; 11000;occ; 108; 0;49782  
6; 5569.6; 06-SEP-2011 18:22:20; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;49782  
7; 5689.2; 06-SEP-2011 18:24:20; Dark ; 44.0; 177; 1Zet CMA ; 3.02; 26000;occ; 88; 0;49782  
8; 5783.9; 06-SEP-2011 18:25:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49782  
9; 5878.4; 06-SEP-2011 18:27:29; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;49782  
10; 6667.5; 06-SEP-2011 18:40:38; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;49783  
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2; 1344.5; 06-SEP-2011 18:52:09; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;49783  
3; 2195.2; 06-SEP-2011 19:06:20; Bright; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;49783  
4; 2447.8; 06-SEP-2011 19:10:33; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;49783  
5; 3068.7; 06-SEP-2011 19:20:54; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;49783  
6; 5416.3; 06-SEP-2011 20:00:01; Dark ; 54.0; 1; 9Alp CMA ;-1.44; 11000;occ; 108; 0;49783  
7; 5689.8; 06-SEP-2011 20:04:35; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;49783  
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9; 5879.5; 06-SEP-2011 20:07:44; Dark ; 48.5; 108; Alp Col ; 2.65; 15200;occ; 97; 0;49783  
10; 6668.1; 06-SEP-2011 20:20:53; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;49784  
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3; 1346.3; 07-SEP-2011 06:33:49; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;49790  
4; 2192.8; 07-SEP-2011 06:47:55; Bright; 43.5; 90; 54Alp Peg ; 2.49; 11000;occ; 87; 0;49790  
5; 2445.6; 07-SEP-2011 06:52:08; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;49790  
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3; -439.4; 07-SEP-2011 07:44:17; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;49790  
4; -318.1; 07-SEP-2011 07:46:18; Dark ; 44.5; 177; 1Zet CMA ; 3.02; 26000;occ; 89; 0;49790  
5; -223.8; 07-SEP-2011 07:47:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49790  
6; -127.3; 07-SEP-2011 07:49:29; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;49790  
7; 658.0; 07-SEP-2011 08:02:35; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;49791  
8; 1009.4; 07-SEP-2011 08:08:26; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49791  
9; 1346.5; 07-SEP-2011 08:14:03; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;49791

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3; 3064.3; 07-SEP-2011 08:42:41; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;49791  
4; 4928.3; 07-SEP-2011 09:13:45; Dark ; 46.5; 8; 10Alp Cmi ; 0.40; 6500;occ; 93; 0;49791  
5; 5422.6; 07-SEP-2011 09:21:59; Dark ; 52.5; 1; 9Alp Cma ; -1.44; 11000;occ; 105; 0;49791  
6; 5575.2; 07-SEP-2011 09:24:32; Dark ; 47.5; 23; 21Eps Cma ; 1.50; 26000;occ; 95; 0;49791  
7; 5696.8; 07-SEP-2011 09:26:33; Dark ; 46.0; 177; 1Zet Cma ; 3.02; 26000;occ; 92; 0;49791  
8; 5790.9; 07-SEP-2011 09:28:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49791  
9; 5887.8; 07-SEP-2011 09:29:44; Dark ; 48.5; 108; Alp Col ; 2.65; 15200;occ; 97; 0;49791  
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3; 2443.8; 07-SEP-2011 16:53:30; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;49796  
4; 3061.6; 07-SEP-2011 17:03:48; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;49796  
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3; 1348.4; 07-SEP-2011 23:16:11; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;49800  
4; 2189.6; 07-SEP-2011 23:30:12; Bright; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;49800  
5; 2442.6; 07-SEP-2011 23:34:25; Bright; 41.0; 164; 44Eta Peg ; 2.95; 5400;occ; 82; 0;49800  
6; 3059.3; 07-SEP-2011 23:44:41; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;49800  
7; 4445.5; 08-SEP-2011 00:07:48; Bright; 42.0; 24; 66Alp Gem ; 1.58; 10200;occ; 84; 0;49800  
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4; 5423.3; 07-SEP-2011 11:02:14; Dark ; 42.5; 1; 9Alp Cma ; -1.44; 11000;occ; 105; 0;49792  
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6; 5697.6; 07-SEP-2011 11:06:48; Dark ; 46.5; 177; 1Zet Cma ; 3.02; 26000;occ; 93; 0;49792  
7; 5791.6; 07-SEP-2011 11:08:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49792  
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9; 7024.4; 07-SEP-2011 11:28:55; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;49793  
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6; 659.6; 07-SEP-2011 13:03:18; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;49794  
7; 1011.0; 07-SEP-2011 13:09:09; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;49794  
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7; 1011.5; 07-SEP-2011 14:49:24; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;49795  
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3; 3062.2; 07-SEP-2011 15:23:34; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;49795  
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5; 5425.9; 07-SEP-2011 16:02:58; Dark ; 52.5; 1; 9Alp Cma ; -1.44; 11000;occ; 105; 0;49795  
6; 5578.0; 07-SEP-2011 16:05:30; Dark ; 43.0; 23; 21Eps Cma ; 1.50; 26000;occ; 86; 0;49795  
7; 5700.4; 07-SEP-2011 16:07:33; Dark ; 44.5; 177; 1Zet Cma ; 3.02; 26000;occ; 89; 0;49795  
8; 5794.1; 07-SEP-2011 16:09:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49795  
9; 5892.1; 07-SEP-2011 16:10:44; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;49795  
10; 6674.8; 07-SEP-2011 16:23:47; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49796  
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3; 2443.8; 07-SEP-2011 16:53:30; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;49796  
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4; 581.3; 08-SEP-2011 00:43:37; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;49801  
5; 1014.2; 08-SEP-2011 00:50:50; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;49801  
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7; 4445.6; 08-SEP-2011 01:48:02; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;49801  
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2; 2166.5; 14-SEP-2011 20:52:52; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49899
3; 2397.8; 14-SEP-2011 20:56:43; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49899
4; 3011.0; 14-SEP-2011 21:06:56; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49899
5; 3118.1; 14-SEP-2011 21:08:43; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;49899
6; 4458.6; 14-SEP-2011 21:31:04; Bright; 56.5; 24; 66Alp Gem ; 1.58; 10200;occ; 113; 0;49899
7; 4977.7; 14-SEP-2011 21:39:43; Dark ; 53.5; 8; 10Alp CMI ; 0.40; 6500;occ; 107; 0;49899
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2; 1055.2; 14-SEP-2011 08:52:42; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;49892
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2; 2399.7; 14-SEP-2011 09:15:07; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;49892
3; 3014.2; 14-SEP-2011 09:25:21; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49892
4; 3122.2; 14-SEP-2011 09:27:09; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;49892
5; 4457.6; 14-SEP-2011 09:49:25; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;49892
6; 4974.2; 14-SEP-2011 09:58:01; Dark ; 57.5; 8; 10Alp CMI ; 0.40; 6500;occ; 115; 0;49892
7; 5514.5; 14-SEP-2011 10:07:02; Dark ; 58.0; 1; 9Alp CMA ; -1.44; 11000;occ; 116; 0;49892
8; 5877.0; 14-SEP-2011 10:13:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49892
9; 7069.5; 14-SEP-2011 10:32:57; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49893
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2; 2399.4; 14-SEP-2011 10:55:21; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49893
3; 3013.6; 14-SEP-2011 11:05:35; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49893
4; 3121.6; 14-SEP-2011 11:07:23; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49893
5; 4457.7; 14-SEP-2011 11:29:39; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;49893
6; 4974.6; 14-SEP-2011 11:38:16; Dark ; 51.5; 8; 10Alp CMI ; 0.40; 6500;occ; 103; 0;49893
7; 5515.6; 14-SEP-2011 11:47:17; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;49893
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2; 1057.7; 14-SEP-2011 18:54:09; Dark ; 10.5; 84; Alp Phe ; 2.40; 4500;occ; 21; 0;49898
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3; -130.5; 14-SEP-2011 21:54:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49899
4; 1058.4; 14-SEP-2011 22:14:37; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49900
5; 2166.3; 14-SEP-2011 22:33:05; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49900
6; 2397.6; 14-SEP-2011 22:36:57; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49900
7; 3010.5; 14-SEP-2011 22:47:10; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49900
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
7; 3009.9; 15-SEP-2011 00:27:23; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;49901
8; 3117.1; 15-SEP-2011 00:29:10; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49901
9; 4458.7; 15-SEP-2011 00:51:32; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;49901
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2; 2166.8; 14-SEP-2011 19:12:38; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49898
3; 2398.1; 14-SEP-2011 19:16:29; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;49898
4; 3011.5; 14-SEP-2011 19:26:43; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49898
5; 3118.7; 14-SEP-2011 19:28:30; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49898
6; 4458.4; 14-SEP-2011 19:50:49; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;49898
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9; 5634.1; 14-SEP-2011 20:10:25; Dark ; 53.0; 47; 2Bet CMA ; 1.98; 28000;occ; 106; 0;49898
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3; -128.6; 15-SEP-2011 01:15:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49901
4; 716.6; 15-SEP-2011 01:29:23; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;49902
5; 1059.1; 15-SEP-2011 01:35:06; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;49902
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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9; 2519.6; 15-SEP-2011 01:59:26; Bright; 26.0; 58; 21Alp And ; 2.07; 11000;occ; 52; 0;49902
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11; 3116.5; 15-SEP-2011 02:09:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;49902
12; 4458.9; 15-SEP-2011 02:31:46; Bright; 63.0; 24; 66Alp Gem ; 1.58; 10200;occ; 126; 0;49902
13; 4979.3; 15-SEP-2011 02:40:26; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;49902
14; 5639.1; 15-SEP-2011 02:51:26; Dark ; 40.0; 47; 2Bet CMA ; 1.98; 28000;occ; 80; 0;49902
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5; -126.8; 15-SEP-2011 04:35:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49903
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7; 1059.9; 15-SEP-2011 04:55:35; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;49904
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12; 3008.8; 15-SEP-2011 05:28:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49904
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4; -372.3; 15-SEP-2011 06:11:56; Dark ; 34.0; 47; 2Bet CMA ; 1.98; 28000;occ; 68; 0;49904
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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
12; 3008.4; 15-SEP-2011 07:08:17; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 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
5; 2512.4; 15-SEP-2011 20:21:53; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;49913
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
9; 4985.0; 15-SEP-2011 21:03:06; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;49913
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6; 1517.8; 15-SEP-2011 23:25:46; Dark ; 59.0; 52; 16Bet Cet ; 2.04; 4500;occ; 118; 0;49915
7; 2163.7; 15-SEP-2011 23:36:32; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49915
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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
10; 3003.7; 15-SEP-2011 23:50:32; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49915
11; 3109.1; 15-SEP-2011 23:52:18; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49915
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4; 3006.8; 15-SEP-2011 12:08:57; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49908
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4; 2495.8; 17-SEP-2011 17:27:53; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;49940
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4; 2385.6; 18-SEP-2011 20:09:47; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49956
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11; 7097.9; 19-SEP-2011 12:30:24; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49966
12; 7539.4; 19-SEP-2011 12:37:46; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;49966
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2; 2481.2; 19-SEP-2011 12:53:42; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;49966
3; 2983.2; 19-SEP-2011 13:02:04; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49966
4; 3082.3; 19-SEP-2011 13:03:43; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49966
5; 4467.3; 19-SEP-2011 13:26:48; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;49966
6; 5016.4; 19-SEP-2011 13:35:57; Dark ; 59.0; 8; 10Alp CMI ; 0.40; 6500;occ; 118; 0;49966
7; 5598.8; 19-SEP-2011 13:45:39; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;49966
8; 5714.9; 19-SEP-2011 13:47:35; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;49966
9; 5948.3; 19-SEP-2011 13:51:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49966
10; 7098.2; 19-SEP-2011 14:10:39; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;49967
11; 7539.6; 19-SEP-2011 14:18:00; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;49967
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2; 2384.0; 19-SEP-2011 14:32:18; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;49967
3; 2480.8; 19-SEP-2011 14:33:55; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;49967
4; 2982.8; 19-SEP-2011 14:42:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49967
5; 3081.9; 19-SEP-2011 14:43:56; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49967
6; 4467.5; 19-SEP-2011 15:07:02; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49967
7; 5017.1; 19-SEP-2011 15:16:11; Dark ; 54.5; 8; 10Alp CMI ; 0.40; 6500;occ; 109; 0;49967
8; 5600.1; 19-SEP-2011 15:25:54; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;49967
9; 5716.0; 19-SEP-2011 15:27:50; Dark ; 54.5; 23; 21Eps CMA ; 1.50; 26000;occ; 109; 0;49967
10; 5949.4; 19-SEP-2011 15:31:44; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49967
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2; 2157.5; 19-SEP-2011 16:08:46; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49968
3; 2383.5; 19-SEP-2011 16:12:32; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;49968
4; 2480.1; 19-SEP-2011 16:14:08; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;49968
5; 2982.5; 19-SEP-2011 16:22:31; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49968
6; 3081.3; 19-SEP-2011 16:24:10; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49968
7; 4467.7; 19-SEP-2011 16:47:16; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49968
8; 5017.6; 19-SEP-2011 16:56:26; Dark ; 58.0; 8; 10Alp CMI ; 0.40; 6500;occ; 116; 0;49968
9; 5601.3; 19-SEP-2011 17:06:10; Dark ; 55.0; 1; 9Alp CMA ; -1.44; 11000;occ; 110; 0;49968
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11; 5950.5; 19-SEP-2011 17:11:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49968
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3; 2157.3; 19-SEP-2011 17:49:00; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49969
4; 2383.4; 19-SEP-2011 17:52:46; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;49969
5; 2479.6; 19-SEP-2011 17:54:22; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;49969
6; 2982.0; 19-SEP-2011 18:02:44; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49969
7; 3080.8; 19-SEP-2011 18:04:23; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49969
8; 4467.7; 19-SEP-2011 18:27:30; Bright; 47.5; 24; 66Alp Gem ; 1.58; 10200;occ; 95; 0;49969
9; 5018.2; 19-SEP-2011 18:36:41; Dark ; 59.5; 8; 10Alp CMI ; 0.40; 6500;occ; 119; 0;49969
10; 5602.6; 19-SEP-2011 18:46:25; Dark ; 55.0; 1; 9Alp CMA ; -1.44; 11000;occ; 110; 0;49969
11; 5717.8; 19-SEP-2011 18:48:20; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;49969
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3; 1526.2; 19-SEP-2011 22:39:11; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;49972
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
6; 2478.0; 19-SEP-2011 22:55:02; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;49972
7; 2980.8; 19-SEP-2011 23:03:25; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49972
8; 3079.2; 19-SEP-2011 23:05:03; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49972
9; 4468.0; 19-SEP-2011 23:28:12; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49972
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6; 2382.7; 20-SEP-2011 00:33:41; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;49973
7; 2477.4; 20-SEP-2011 00:35:16; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;49973
8; 2980.4; 20-SEP-2011 00:43:39; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;49973
9; 3078.7; 20-SEP-2011 00:45:17; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49973
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6; 2382.6; 20-SEP-2011 02:13:55; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49974
7; 2476.9; 20-SEP-2011 02:15:29; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;49974
8; 2980.0; 20-SEP-2011 02:23:52; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;49974
9; 3078.2; 20-SEP-2011 02:25:30; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;49974
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6; 65.5; 20-SEP-2011 04:55:46; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;49976
7; 1087.5; 20-SEP-2011 05:12:48; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49976
8; 1526.8; 20-SEP-2011 05:20:07; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;49976
9; 2382.4; 20-SEP-2011 05:34:22; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;49976
10; 2475.9; 20-SEP-2011 05:35:56; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;49976
11; 2979.4; 20-SEP-2011 05:44:19; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49976
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2; -991.4; 20-SEP-2011 06:18:23; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;49976
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5; -55.5; 20-SEP-2011 06:33:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49976
6; 66.2; 20-SEP-2011 06:36:00; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;49977
7; 1087.9; 20-SEP-2011 06:53:02; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;49977
8; 1527.1; 20-SEP-2011 07:00:21; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49977
9; 2156.9; 20-SEP-2011 07:10:51; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49977
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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12; 2979.0; 20-SEP-2011 07:24:33; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49977
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3; -8.9; 20-SEP-2011 23:17:05; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;49986
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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9; 2975.1; 21-SEP-2011 00:06:49; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49987
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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Problem occurred when reading packet number 92!
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3; -401.3; 20-SEP-2011 08:08:27; Dark ; 28.0; 1; 9Alp CMA ; -1.44; 11000;occ; 56; 1;49977
4; -288.6; 20-SEP-2011 08:10:20; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 1;49977
5; -54.4; 20-SEP-2011 08:14:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 2;49977
6; 66.9; 20-SEP-2011 08:16:15; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 5;49978
7; 1088.2; 20-SEP-2011 08:33:16; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 1;49978
8; 1527.1; 20-SEP-2011 08:40:35; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;49978
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3; 2472.9; 20-SEP-2011 15:37:17; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;49982
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
6; 4469.5; 20-SEP-2011 16:10:33; Bright; 68.0; 24; 66Alp Gem ; 1.58; 10200;occ; 136; 0;49982
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8; 5661.9; 20-SEP-2011 16:30:26; Dark ; 48.0; 37; 25Del CMA ; 1.83; 5900;occ; 96; 0;49982
9; 5776.4; 20-SEP-2011 16:32:20; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;49982
10; 6002.5; 20-SEP-2011 16:36:06; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;49982
11; 6119.5; 20-SEP-2011 16:38:03; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;49983
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3; 2472.4; 20-SEP-2011 17:17:30; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;49983
4; 2976.6; 20-SEP-2011 17:25:54; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49983
5; 3073.8; 20-SEP-2011 17:27:32; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49983
6; 4469.6; 20-SEP-2011 17:50:47; Bright; 47.5; 24; 66Alp Gem ; 1.58; 10200;occ; 95; 0;49983
7; 5027.4; 20-SEP-2011 18:00:05; Dark ; 64.5; 8; 10Alp CMi ; 0.40; 6500;occ; 129; 0;49983
8; 5662.9; 20-SEP-2011 18:10:41; Dark ; 55.0; 37; 25Del CMA ; 1.83; 5900;occ; 110; 0;49983
9; 5777.2; 20-SEP-2011 18:12:35; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;49983
10; 6003.2; 20-SEP-2011 18:16:21; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;49983
11; 6120.9; 20-SEP-2011 18:18:19; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;49984
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3; 112.3; 21-SEP-2011 00:59:20; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;49988
4; 1091.7; 21-SEP-2011 01:15:39; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49988
5; 1528.6; 21-SEP-2011 01:22:56; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;49988
6; 2380.5; 21-SEP-2011 01:37:08; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49988
7; 2469.8; 21-SEP-2011 01:38:37; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;49988
8; 2974.8; 21-SEP-2011 01:47:02; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;49988
9; 3071.4; 21-SEP-2011 01:48:39; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49988
10; 4470.2; 21-SEP-2011 02:11:58; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49988
11; 5030.7; 21-SEP-2011 02:21:18; Dark ; 63.0; 8; 10Alp CMi ; 0.40; 6500;occ; 126; 0;49988
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3; -233.1; 21-SEP-2011 02:33:48; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;49988
4; -7.7; 21-SEP-2011 02:37:34; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;49988
5; 113.7; 21-SEP-2011 02:39:35; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;49989
6; 1092.0; 21-SEP-2011 02:55:53; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;49989
7; 1528.7; 21-SEP-2011 03:03:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;49989
8; 2155.9; 21-SEP-2011 03:13:37; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49989
9; 2380.5; 21-SEP-2011 03:17:22; Bright; 55.0; 93; 53Bet Peg ; 2.52; 3100;occ; 110; 0;49989
10; 2469.4; 21-SEP-2011 03:18:51; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;49989
11; 2974.4; 21-SEP-2011 03:27:16; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49989
12; 3070.8; 21-SEP-2011 03:28:52; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;49989
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4; -232.4; 21-SEP-2011 04:14:03; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;49989
5; -7.0; 21-SEP-2011 04:17:48; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;49989
6; 115.0; 21-SEP-2011 04:19:50; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;49990
7; 1092.4; 21-SEP-2011 04:36:08; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49990
8; 1528.9; 21-SEP-2011 04:43:24; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49990
9; 2155.8; 21-SEP-2011 04:53:51; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;49990
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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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
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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
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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
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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
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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; 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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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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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
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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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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
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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
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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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 2; -165.8; 28-SEP-2011 04:58:40; Dark ; 54.5; 23; 21Eps CMA ; 1.50; 26000;occ; 109; 0;50090  
 3; 887.1; 28-SEP-2011 05:16:13; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50091  
 4; 3024.9; 28-SEP-2011 05:51:51; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;50091  
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 2; 2939.2; 28-SEP-2011 20:52:31; Bright; 2.0; 74; 11Bet Cas ; 2.27; 6600;occ; 4; 0;50100  
 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; -153.6; 28-SEP-2011 21:41:12; Dark ; 60.0; 23; 21Eps CMA ; 1.50; 26000;occ; 120; 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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 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; 2644.9; 29-SEP-2011 21:51:06; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;50115
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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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