

GOMOS Daily Report 22-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	25SEP2011 07:00:59
Data source version	GOMOS/6.01
Start time of products	22SEP2011 00:22:54
Stop time of products	22SEP2011 22:05:16
Store outputs in DB	Yes
Nb of level 1b prods	25
Nb of prods with errors	0

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

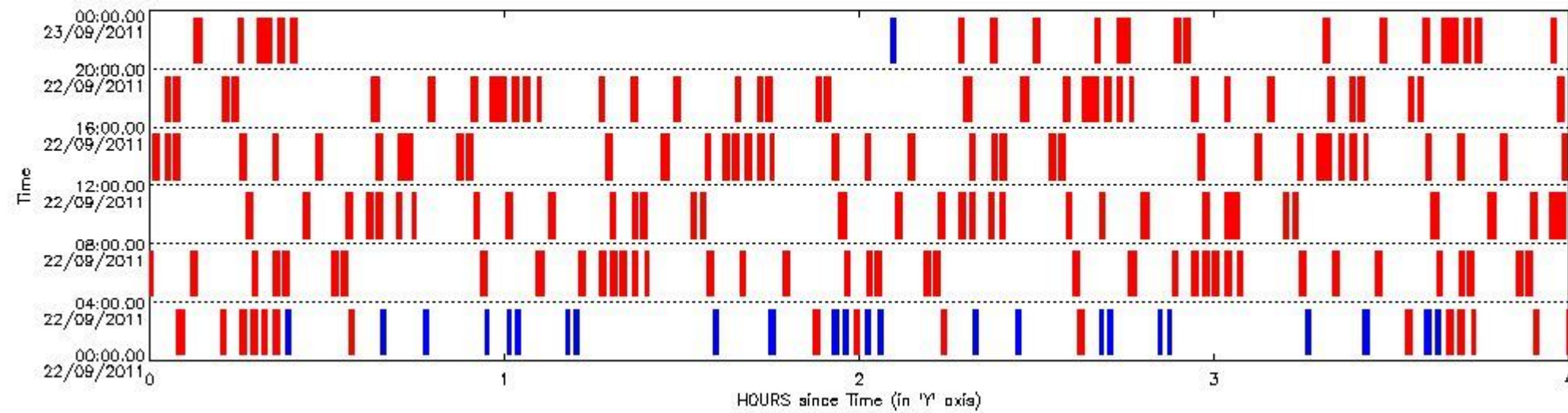
2.1 Level 0 products arrived in PCF (see template [here](#))

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
22-SEP-2011 00:04:33	10AlpCmi	8	50001
22-SEP-2011 00:11:52	15RhoPup	132	50001
22-SEP-2011 00:15:13	25DelCma	37	50001
22-SEP-2011 00:17:04	PiPup	117	50001
22-SEP-2011 00:18:47	DSA1055	0	50001
22-SEP-2011 00:20:48	TauPup	161	50001
22-SEP-2011 00:33:31	AlpEri	9	50002
22-SEP-2011 01:52:07	15RhoPup	132	50002
22-SEP-2011 01:59:02	DSA1055	0	50002
22-SEP-2011 02:13:46	AlpEri	9	50003
22-SEP-2011 02:36:56	54AlpPeg	90	50003
22-SEP-2011 03:32:21	15RhoPup	132	50003
22-SEP-2011 03:39:16	DSA1055	0	50003
22-SEP-2011 03:41:17	TauPup	161	50003
22-SEP-2011 03:43:30	AlpCol	108	50004

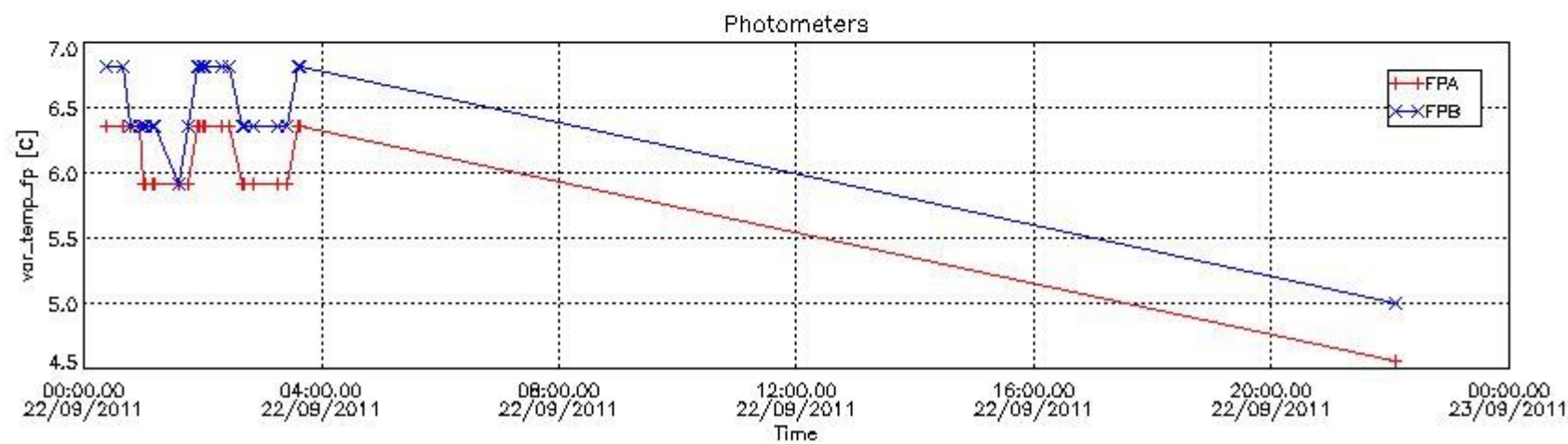
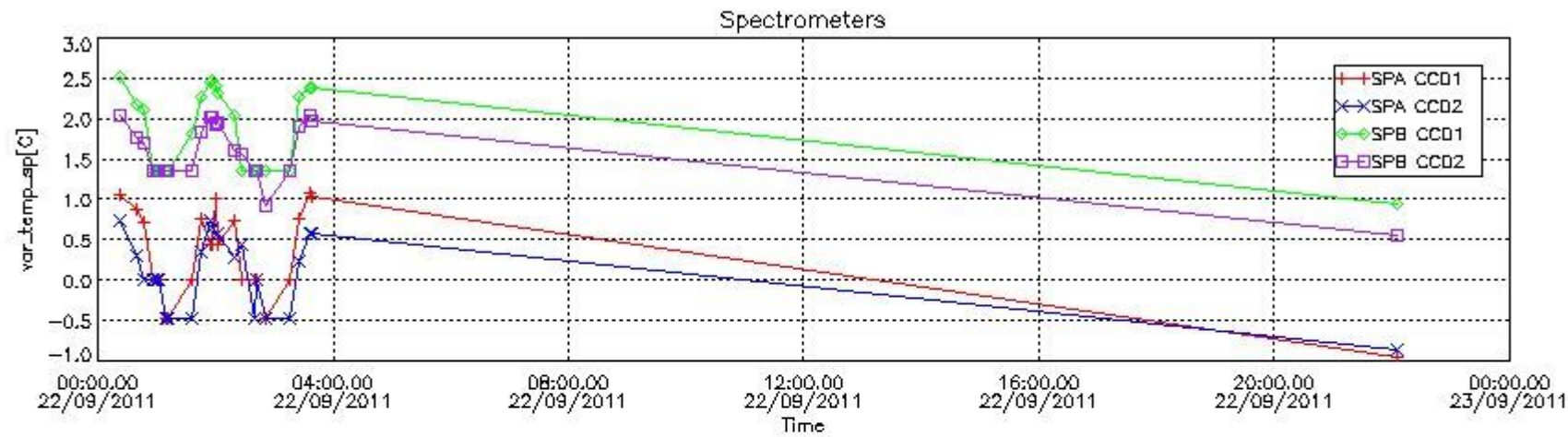
22-SEP-2011 03:54:00	AlpEri	9	50004
22-SEP-2011 03:59:33	AlpPhe	84	50004
22-SEP-2011 04:06:46	16BetCet	52	50004
22-SEP-2011 04:17:10	54AlpPeg	90	50004
22-SEP-2011 04:20:54	53BetPeg	93	50004
22-SEP-2011 04:22:17	21AlpAnd	58	50004
22-SEP-2011 04:30:44	11BetCas	74	50004
22-SEP-2011 04:32:19	27GamCas	76	50004
22-SEP-2011 04:55:48	66AlpGem	24	50004
22-SEP-2011 05:05:17	10AlpCMi	8	50004
22-SEP-2011 05:12:36	15RhoPup	132	50004
22-SEP-2011 05:15:58	25DelCMa	37	50004
22-SEP-2011 05:17:48	PiPup	117	50004
22-SEP-2011 05:19:31	DSA1055	0	50004
22-SEP-2011 05:21:32	TauPup	161	50004
22-SEP-2011 05:23:45	AlpCol	108	50005
22-SEP-2011 05:34:15	AlpEri	9	50005
22-SEP-2011 05:39:47	AlpPhe	84	50005
22-SEP-2011 05:47:00	16BetCet	52	50005
22-SEP-2011 05:57:24	54AlpPeg	90	50005
22-SEP-2011 06:01:08	53BetPeg	93	50005
22-SEP-2011 06:02:31	21AlpAnd	58	50005
22-SEP-2011 06:10:58	11BetCas	74	50005
22-SEP-2011 06:12:32	27GamCas	76	50005
22-SEP-2011 06:36:02	66AlpGem	24	50005
22-SEP-2011 06:45:32	10AlpCMi	8	50005
22-SEP-2011 06:52:50	15RhoPup	132	50005
22-SEP-2011 06:56:13	25DelCMa	37	50005
22-SEP-2011 06:58:03	PiPup	117	50005
22-SEP-2011 06:59:46	DSA1055	0	50005
22-SEP-2011 07:01:47	TauPup	161	50005
22-SEP-2011 07:04:00	AlpCol	108	50006
22-SEP-2011 07:14:29	AlpEri	9	50006
22-SEP-2011 07:20:01	AlpPhe	84	50006
22-SEP-2011 07:27:14	16BetCet	52	50006
22-SEP-2011 07:37:38	54AlpPeg	90	50006
22-SEP-2011 07:41:21	53BetPeg	93	50006
22-SEP-2011 07:42:44	21AlpAnd	58	50006
22-SEP-2011 07:51:11	11BetCas	74	50006
22-SEP-2011 07:52:46	27GamCas	76	50006
22-SEP-2011 08:16:16	66AlpGem	24	50006
22-SEP-2011 08:25:46	10AlpCMi	8	50006
22-SEP-2011 08:33:05	15RhoPup	132	50006
22-SEP-2011 08:36:28	25DelCMa	37	50006
22-SEP-2011 08:38:18	PiPup	117	50006
22-SEP-2011 08:41:33	DSA1059	0	50006
22-SEP-2011 08:44:16	AlpCol	108	50007
22-SEP-2011 08:54:44	AlpEri	9	50007
22-SEP-2011 09:00:16	AlpPhe	84	50007
22-SEP-2011 09:07:28	16BetCet	52	50007
22-SEP-2011 09:17:52	54AlpPeg	90	50007
22-SEP-2011 09:21:35	53BetPeg	93	50007
22-SEP-2011 09:22:58	21AlpAnd	58	50007
22-SEP-2011 09:31:25	11BetCas	74	50007
22-SEP-2011 09:32:59	27GamCas	76	50007
22-SEP-2011 09:56:30	66AlpGem	24	50007
22-SEP-2011 10:06:01	10AlpCMi	8	50007
22-SEP-2011 10:13:20	15RhoPup	132	50007
22-SEP-2011 10:16:43	25DelCMa	37	50007

22-SEP-2011 10:18:33	PiPup	117	50007
22-SEP-2011 10:21:48	DSA1059	0	50007
22-SEP-2011 10:23:38	AlpCar	2	50008
22-SEP-2011 10:34:58	AlpEri	9	50008
22-SEP-2011 10:40:30	AlpPhe	84	50008
22-SEP-2011 10:47:43	16BetCet	52	50008
22-SEP-2011 10:58:06	54AlpPeg	90	50008
22-SEP-2011 11:01:49	53BetPeg	93	50008
22-SEP-2011 11:03:11	21AlpAnd	58	50008
22-SEP-2011 11:11:39	11BetCas	74	50008
22-SEP-2011 11:13:13	27GamCas	76	50008
22-SEP-2011 11:36:44	66AlpGem	24	50008
22-SEP-2011 11:46:16	10AlpCMi	8	50008
22-SEP-2011 11:53:34	15RhoPup	132	50008
22-SEP-2011 11:56:45	31EtaCMa	88	50008
22-SEP-2011 11:58:08	21EpsCMa	23	50008
22-SEP-2011 12:00:29	DSA1055	0	50008
22-SEP-2011 12:02:30	TauPup	161	50009
22-SEP-2011 12:03:53	AlpCar	2	50009
22-SEP-2011 12:15:12	AlpEri	9	50009
22-SEP-2011 12:20:44	AlpPhe	84	50009
22-SEP-2011 12:27:57	16BetCet	52	50009
22-SEP-2011 12:38:20	54AlpPeg	90	50009
22-SEP-2011 12:42:03	53BetPeg	93	50009
22-SEP-2011 12:43:25	21AlpAnd	58	50009
22-SEP-2011 12:51:52	11BetCas	74	50009
22-SEP-2011 12:53:26	27GamCas	76	50009
22-SEP-2011 13:16:58	66AlpGem	24	50009
22-SEP-2011 13:26:30	10AlpCMi	8	50009
22-SEP-2011 13:33:49	15RhoPup	132	50009
22-SEP-2011 13:37:00	31EtaCMa	88	50009
22-SEP-2011 13:38:23	21EpsCMa	23	50009
22-SEP-2011 13:40:44	DSA1055	0	50009
22-SEP-2011 13:42:45	TauPup	161	50010
22-SEP-2011 13:45:02	AlpCol	108	50010
22-SEP-2011 13:55:27	AlpEri	9	50010
22-SEP-2011 14:00:58	AlpPhe	84	50010
22-SEP-2011 14:08:11	16BetCet	52	50010
22-SEP-2011 14:18:33	54AlpPeg	90	50010
22-SEP-2011 14:22:17	53BetPeg	93	50010
22-SEP-2011 14:23:38	21AlpAnd	58	50010
22-SEP-2011 14:32:06	11BetCas	74	50010
22-SEP-2011 14:33:40	27GamCas	76	50010
22-SEP-2011 14:57:12	66AlpGem	24	50010
22-SEP-2011 15:06:45	10AlpCMi	8	50010
22-SEP-2011 15:14:03	15RhoPup	132	50010
22-SEP-2011 15:17:14	31EtaCMa	88	50010
22-SEP-2011 15:18:38	21EpsCMa	23	50010
22-SEP-2011 15:20:59	DSA1055	0	50010
22-SEP-2011 15:23:00	TauPup	161	50011
22-SEP-2011 15:25:17	AlpCol	108	50011
22-SEP-2011 15:35:41	AlpEri	9	50011
22-SEP-2011 15:41:13	AlpPhe	84	50011
22-SEP-2011 15:48:25	16BetCet	52	50011
22-SEP-2011 15:58:47	54AlpPeg	90	50011
22-SEP-2011 16:02:31	53BetPeg	93	50011
22-SEP-2011 16:03:52	21AlpAnd	58	50011
22-SEP-2011 16:12:19	11BetCas	74	50011
22-SEP-2011 16:13:53	27GamCas	76	50011

22-SEP-2011 16:37:26	66AlpGem	24	50011
22-SEP-2011 16:47:00	10AlpCMi	8	50011
22-SEP-2011 16:54:18	15RhoPup	132	50011
22-SEP-2011 16:57:29	31EtaCMa	88	50011
22-SEP-2011 16:58:53	21EpsCMa	23	50011
22-SEP-2011 17:01:13	DSA1055	0	50011
22-SEP-2011 17:03:14	TauPup	161	50012
22-SEP-2011 17:05:32	AlpCol	108	50012
22-SEP-2011 17:15:56	AlpEri	9	50012
22-SEP-2011 17:21:27	AlpPhe	84	50012
22-SEP-2011 17:28:39	16BetCet	52	50012
22-SEP-2011 17:39:01	54AlpPeg	90	50012
22-SEP-2011 17:42:45	53BetPeg	93	50012
22-SEP-2011 17:44:05	21AlpAnd	58	50012
22-SEP-2011 17:52:33	11BetCas	74	50012
22-SEP-2011 17:54:07	27GamCas	76	50012
22-SEP-2011 18:17:40	66AlpGem	24	50012
22-SEP-2011 18:27:14	10AlpCMi	8	50012
22-SEP-2011 18:34:33	15RhoPup	132	50012
22-SEP-2011 18:37:44	31EtaCMa	88	50012
22-SEP-2011 18:39:08	21EpsCMa	23	50012
22-SEP-2011 18:41:28	DSA1055	0	50012
22-SEP-2011 18:43:29	TauPup	161	50013
22-SEP-2011 18:45:48	AlpCol	108	50013
22-SEP-2011 18:56:10	AlpEri	9	50013
22-SEP-2011 19:01:41	AlpPhe	84	50013
22-SEP-2011 19:08:53	16BetCet	52	50013
22-SEP-2011 19:19:15	54AlpPeg	90	50013
22-SEP-2011 19:22:58	53BetPeg	93	50013
22-SEP-2011 19:24:19	21AlpAnd	58	50013
22-SEP-2011 19:32:47	11BetCas	74	50013
22-SEP-2011 19:34:20	27GamCas	76	50013
22-SEP-2011 19:57:54	66AlpGem	24	50013
22-SEP-2011 20:07:29	10AlpCMi	8	50013
22-SEP-2011 20:14:47	15RhoPup	132	50013
22-SEP-2011 20:17:59	31EtaCMa	88	50013
22-SEP-2011 20:19:23	21EpsCMa	23	50013
22-SEP-2011 20:21:42	DSA1055	0	50013
22-SEP-2011 20:23:44	TauPup	161	50014
22-SEP-2011 22:16:39	AlpEri	9	50015
22-SEP-2011 22:22:10	AlpPhe	84	50015
22-SEP-2011 22:29:21	16BetCet	52	50015
22-SEP-2011 22:39:43	54AlpPeg	90	50015
22-SEP-2011 22:43:26	53BetPeg	93	50015
22-SEP-2011 22:44:46	21AlpAnd	58	50015
22-SEP-2011 22:53:14	11BetCas	74	50015
22-SEP-2011 22:54:47	27GamCas	76	50015
22-SEP-2011 23:18:23	66AlpGem	24	50015
22-SEP-2011 23:27:59	10AlpCMi	8	50015
22-SEP-2011 23:35:16	15RhoPup	132	50015
22-SEP-2011 23:38:29	31EtaCMa	88	50015
22-SEP-2011 23:39:53	21EpsCMa	23	50015
22-SEP-2011 23:42:12	DSA1055	0	50015
22-SEP-2011 23:44:13	TauPup	161	50016
22-SEP-2011 23:56:53	AlpEri	9	50016

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110922_002254_000000433106_00419_50002_9855.N1	22-SEP-2011 00:22:54	Dark	43.000	108	Alp Col	2.6520	15200.	86	50002	No
2	GOM_TRA_1PNPDE20110922_003859_000000443106_00419_50002_9856.N1	22-SEP-2011 00:38:59	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	50002	No
3	GOM_TRA_1PNPDE20110922_004614_000000543106_00419_50002_9857.N1	22-SEP-2011 00:46:14	Twilight_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	50002	No
4	GOM_TRA_1PNPDE20110922_005638_000000383106_00419_50002_9858.N1	22-SEP-2011 00:56:38	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	50002	No
5	GOM_TRA_1PNPDE20110922_010022_000000393106_00419_50002_9859.N1	22-SEP-2011 01:00:22	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	50002	No
6	GOM_TRA_1PNPDE20110922_010146_000000443106_00419_50002_9860.N1	22-SEP-2011 01:01:46	Bright	44.000	58	21Alp And	2.0730	11000.	88	50002	No
7	GOM_TRA_1PNPDE20110922_011013_000000403106_00419_50002_9861.N1	22-SEP-2011 01:10:13	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	50002	No
8	GOM_TRA_1PNPDE20110922_011147_000000403106_00419_50002_9862.N1	22-SEP-2011 01:11:47	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50002	No
9	GOM_TRA_1PNPDE20110922_013515_000000513106_00419_50002_9863.N1	22-SEP-2011 01:35:15	Bright	50.500	24	66Alp Gem	1.5800	10200.	101	50002	No
10	GOM_TRA_1PNPDE20110922_014443_000000663106_00419_50002_9864.N1	22-SEP-2011 01:44:43	Dark	65.500	8	10Alp CMi	0.40000	6500.0	131	50002	No
11	GOM_TRA_1PNPDE20110922_015524_000000573106_00419_50002_9875.N1	22-SEP-2011 01:55:24	Dark	57.000	37	25Del CMa	1.8300	5900.0	114	50002	No
12	GOM_TRA_1PNPDE20110922_015714_000000523106_00419_50002_9876.N1	22-SEP-2011 01:57:14	Dark	51.500	117	Pi Pup	2.7060	3800.0	103	50002	No
13	GOM_TRA_1PNPDE20110922_020058_000000493106_00419_50002_9877.N1	22-SEP-2011 02:00:58	Dark	49.000	161	Tau Pup	2.9310	4500.0	98	50002	No
14	GOM_TRA_1PNPDE20110922_020310_000000433106_00420_50003_9878.N1	22-SEP-2011 02:03:10	Dark	43.000	108	Alp Col	2.6520	15200.	86	50003	No
15	GOM_TRA_1PNPDE20110922_021914_000000463106_00420_50003_9879.N1	22-SEP-2011 02:19:14	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	50003	No
16	GOM_TRA_1PNPDE20110922_022628_000000543106_00420_50003_9880.N1	22-SEP-2011 02:26:28	Twilight_stray	54.000	52	16Bet Cet	2.0370	4500.0	108	50003	No
17	GOM_TRA_1PNPDE20110922_024035_000000403106_00420_50003_9881.N1	22-SEP-2011 02:40:35	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	50003	No
18	GOM_TRA_1PNPDE20110922_024159_000000443106_00420_50003_9882.N1	22-SEP-2011 02:41:59	Bright	44.000	58	21Alp And	2.0730	11000.	88	50003	No
19	GOM_TRA_1PNPDE20110922_025026_000000393106_00420_50003_9883.N1	22-SEP-2011 02:50:26	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	50003	No
20	GOM_TRA_1PNPDE20110922_025201_000000393106_00420_50003_9884.N1	22-SEP-2011 02:52:01	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	50003	No
21	GOM_TRA_1PNPDE20110922_031529_000000493106_00420_50003_0174.N1	22-SEP-2011 03:15:29	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	50003	No
22	GOM_TRA_1PNPDE20110922_032458_000000713106_00420_50003_0175.N1	22-SEP-2011 03:24:58	Dark	70.500	8	10Alp CMi	0.40000	6500.0	141	50003	No
23	GOM_TRA_1PNPDE20110922_033539_000000563106_00420_50003_0176.N1	22-SEP-2011 03:35:39	Dark	55.500	37	25Del CMa	1.8300	5900.0	111	50003	No
24	GOM_TRA_1PNPDE20110922_033729_000000513106_00420_50003_0177.N1	22-SEP-2011 03:37:29	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	50003	No
25	GOM_TRA_1PNPDE20110922_220516_000000533107_00001_50015_0024.N1	22-SEP-2011 22:05:16	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	50015	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).

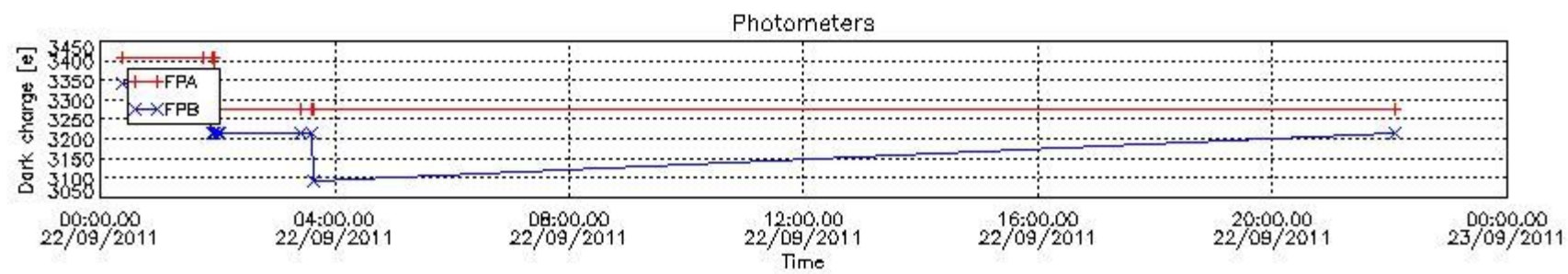
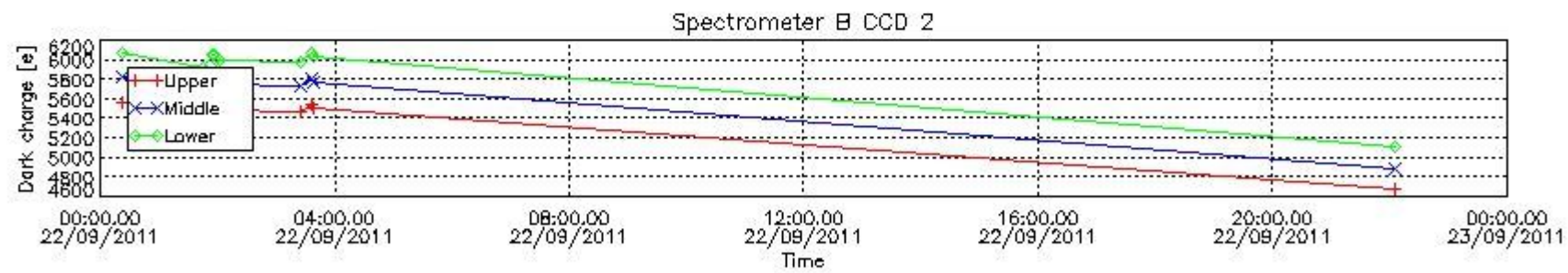
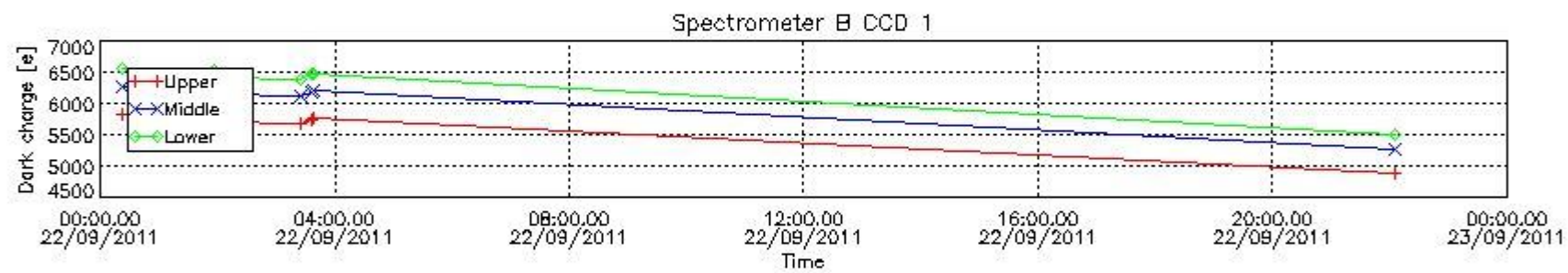
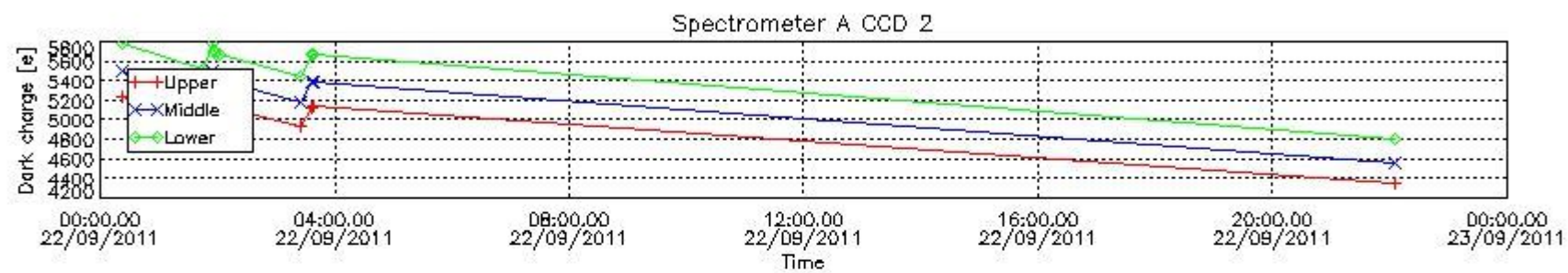
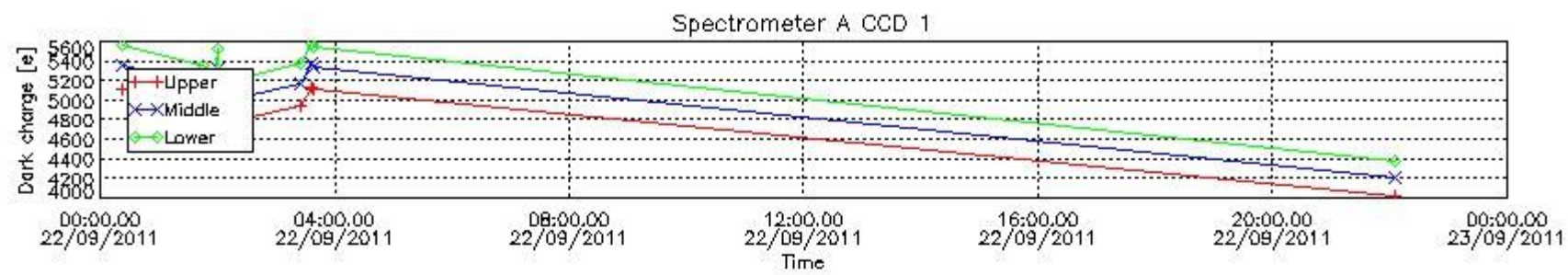
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20110922_002254_000000433106_00419_50002_9855.N1	DC map used
GOM_TRA_1PNPDE20110922_003859_000000443106_00419_50002_9856.N1	DC map used
GOM_TRA_1PNPDE20110922_004614_000000543106_00419_50002_9857.N1	DC map used
GOM_TRA_1PNPDE20110922_005638_000000383106_00419_50002_9858.N1	DC map used
GOM_TRA_1PNPDE20110922_010022_000000393106_00419_50002_9859.N1	DC map used
GOM_TRA_1PNPDE20110922_010146_000000443106_00419_50002_9860.N1	DC map used
GOM_TRA_1PNPDE20110922_011013_000000403106_00419_50002_9861.N1	DC map used
GOM_TRA_1PNPDE20110922_011147_000000403106_00419_50002_9862.N1	DC map used
GOM_TRA_1PNPDE20110922_013515_000000513106_00419_50002_9863.N1	DC map used
GOM_TRA_1PNPDE20110922_014443_000000663106_00419_50002_9864.N1	DC map used
GOM_TRA_1PNPDE20110922_015524_000000573106_00419_50002_9875.N1	DC map used
GOM_TRA_1PNPDE20110922_015714_000000523106_00419_50002_9876.N1	DC map used
GOM_TRA_1PNPDE20110922_020058_000000493106_00419_50002_9877.N1	DC map used
GOM_TRA_1PNPDE20110922_020310_000000433106_00420_50003_9878.N1	DC map used

GOM_TRA_1PNPDE20110922_021914_000000463106_00420_50003_9879.N1	DC map used
GOM_TRA_1PNPDE20110922_022628_000000543106_00420_50003_9880.N1	DC map used
GOM_TRA_1PNPDE20110922_024035_000000403106_00420_50003_9881.N1	DC map used
GOM_TRA_1PNPDE20110922_024159_000000443106_00420_50003_9882.N1	DC map used
GOM_TRA_1PNPDE20110922_025026_000000393106_00420_50003_9883.N1	DC map used
GOM_TRA_1PNPDE20110922_025201_000000393106_00420_50003_9884.N1	DC map used
GOM_TRA_1PNPDE20110922_031529_000000493106_00420_50003_0174.N1	DC map used
GOM_TRA_1PNPDE20110922_032458_000000713106_00420_50003_0175.N1	DC map used
GOM_TRA_1PNPDE20110922_033539_000000563106_00420_50003_0176.N1	DC map used
GOM_TRA_1PNPDE20110922_033729_000000513106_00420_50003_0177.N1	DC map used
GOM_TRA_1PNPDE20110922_220516_000000533107_00001_50015_0024.N1	DC map used

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



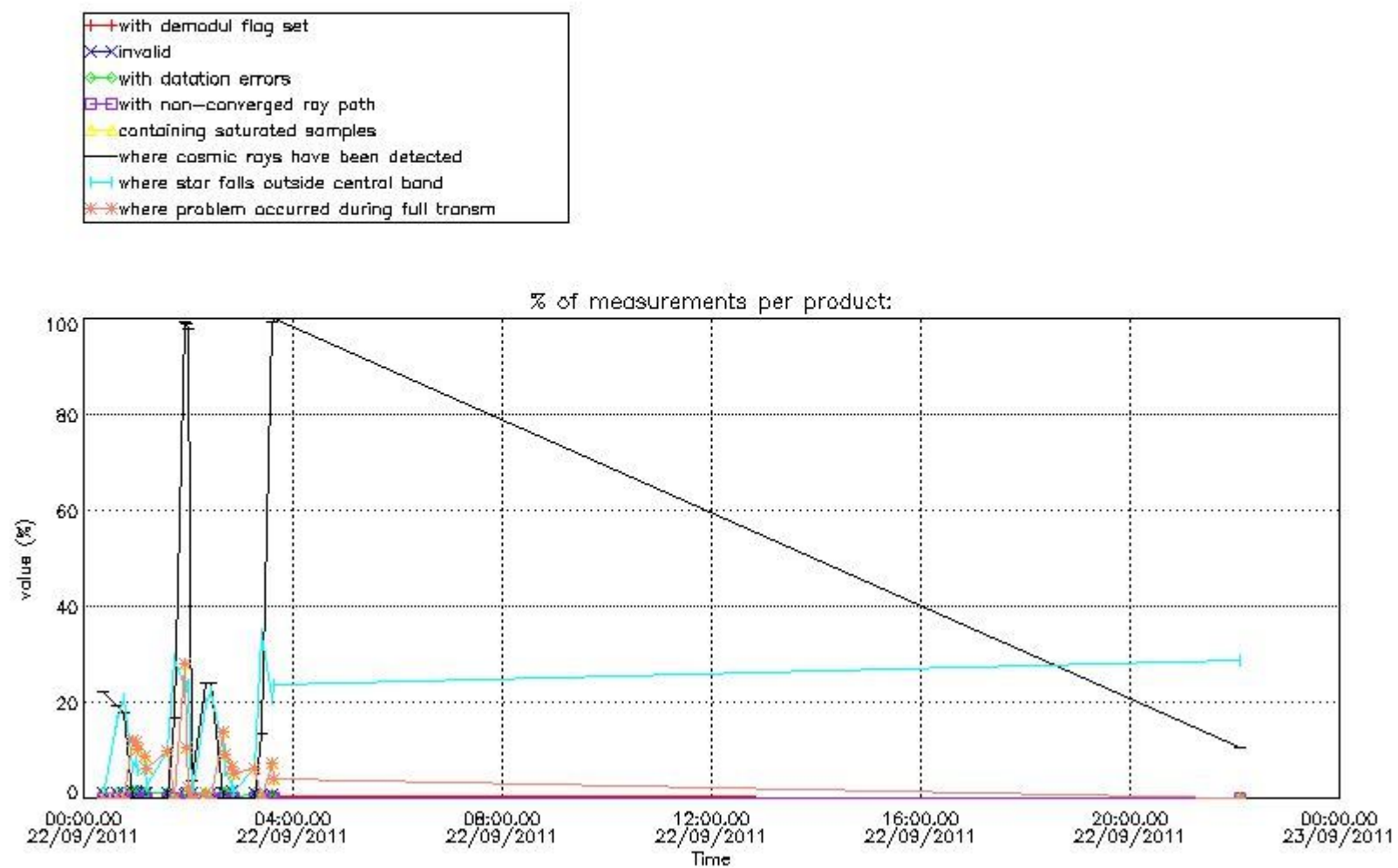
5. Demodulation flag and quality information monitoring

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.

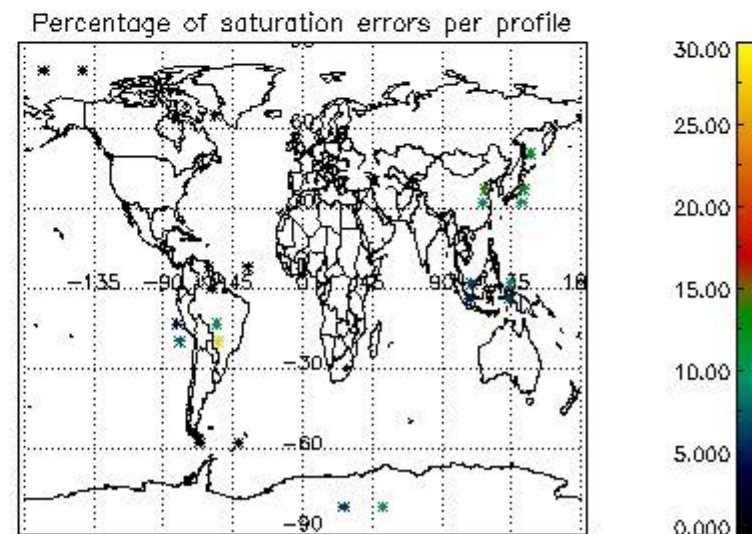
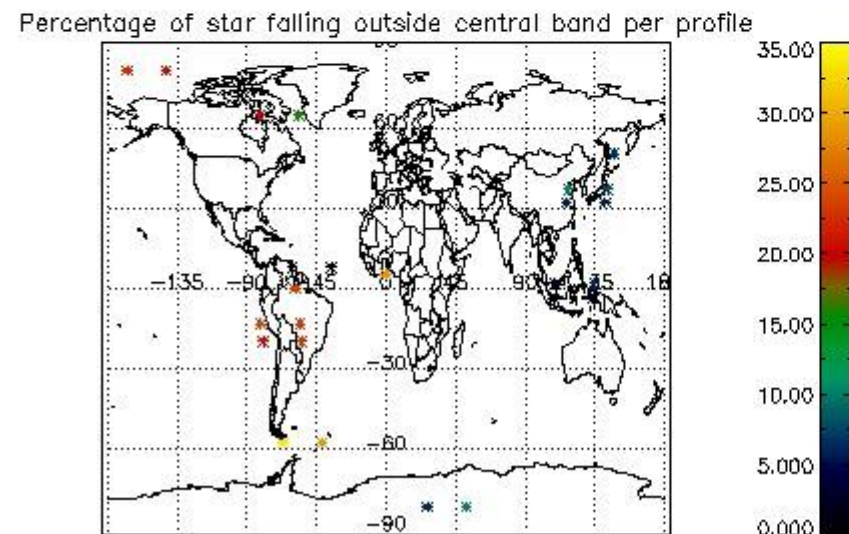
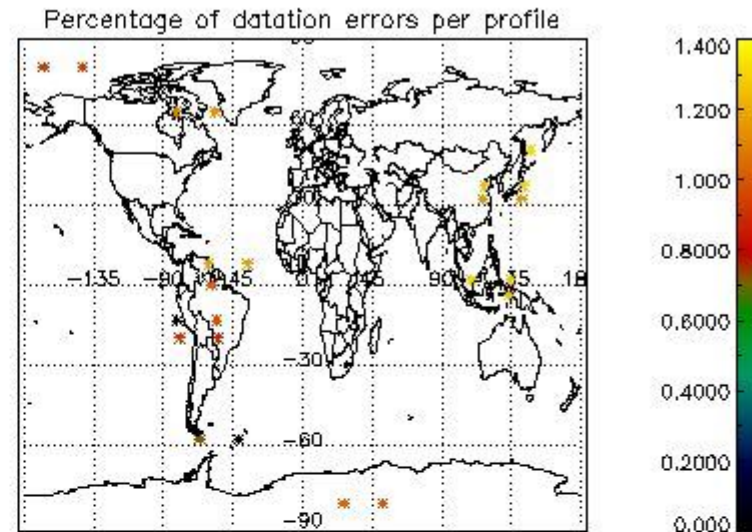
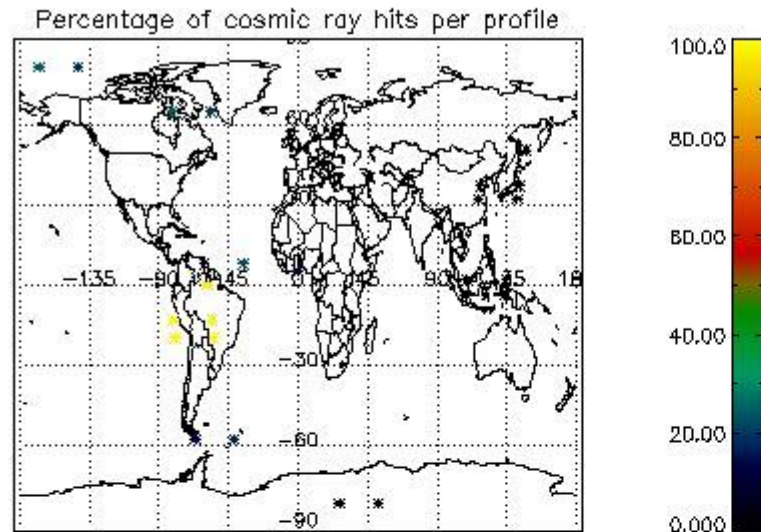
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	56.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	44.0000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



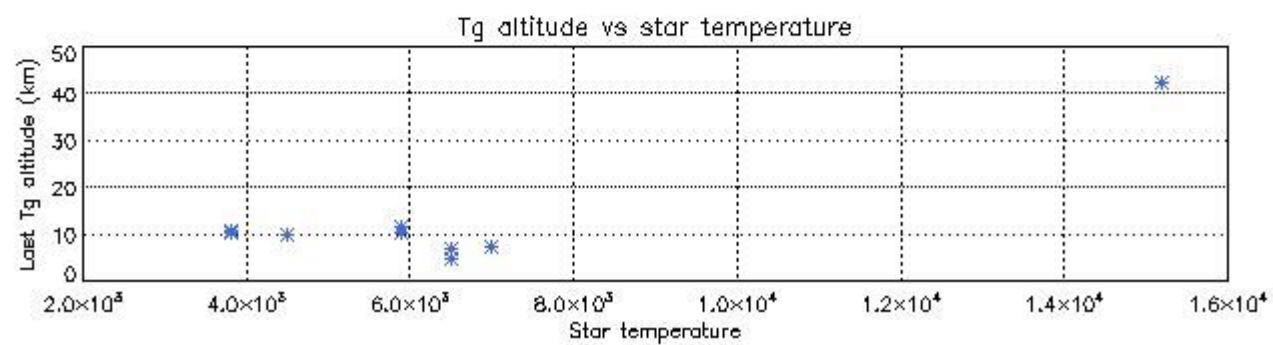
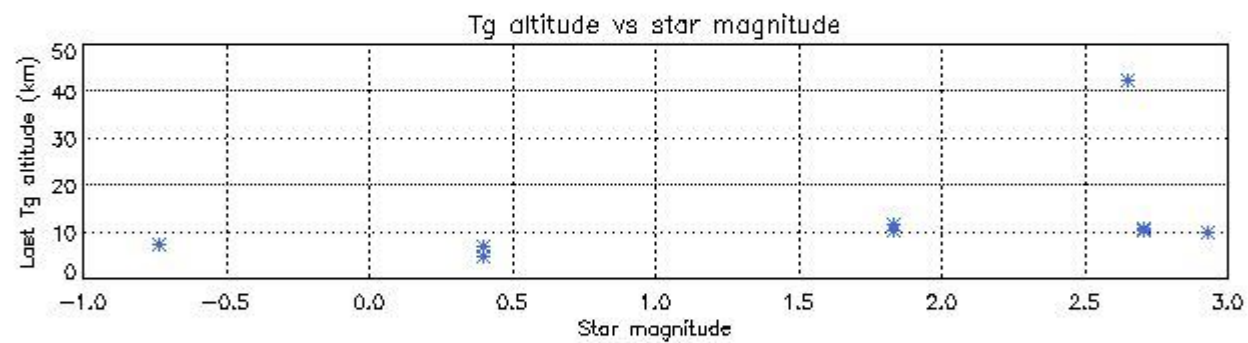
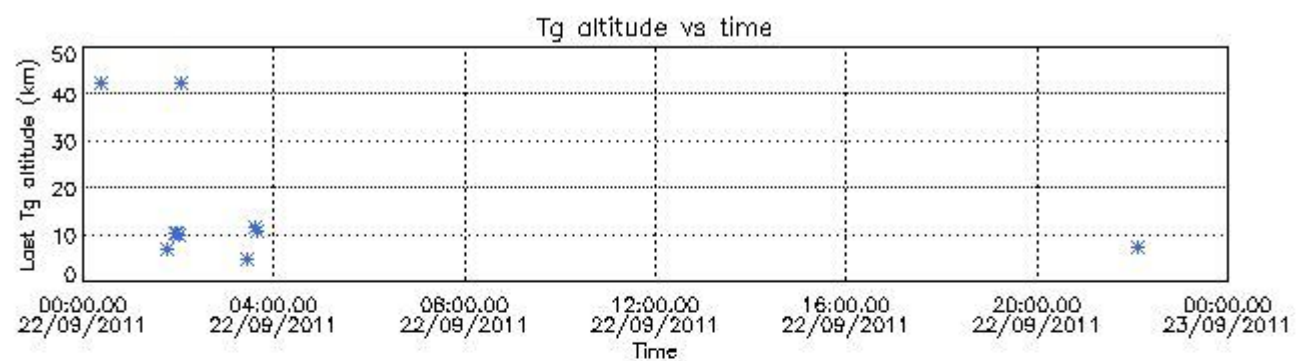
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.572	20.832	NaN
St. deviation:	14.245	3.1220	NaN
Maximum:	42.327	26.952	NaN
Minimum:	4.5504	16.475	NaN
Number of data:	10.000	11.000	NaN

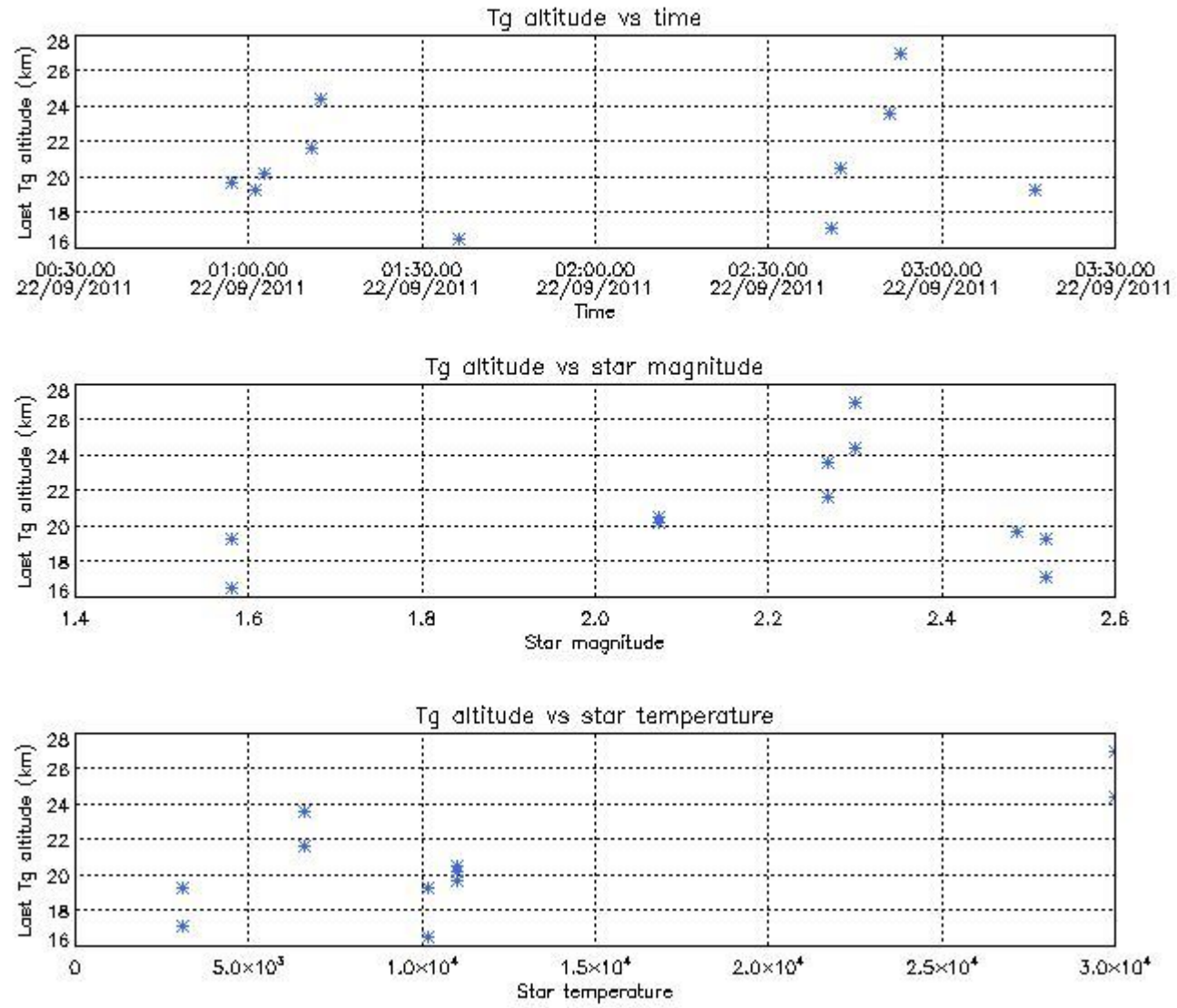
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

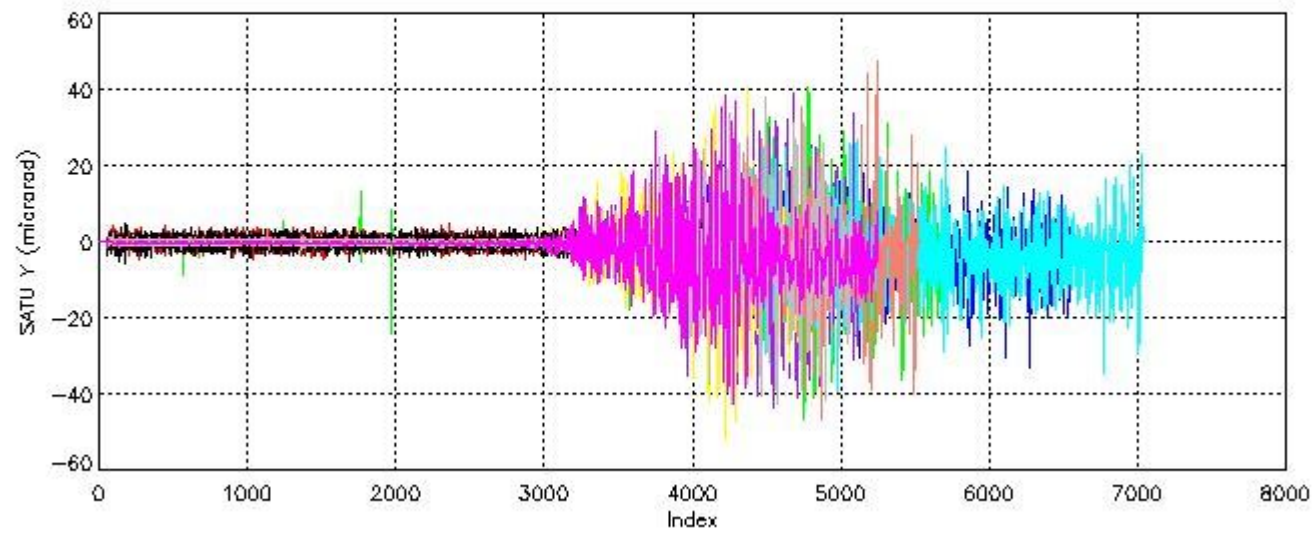
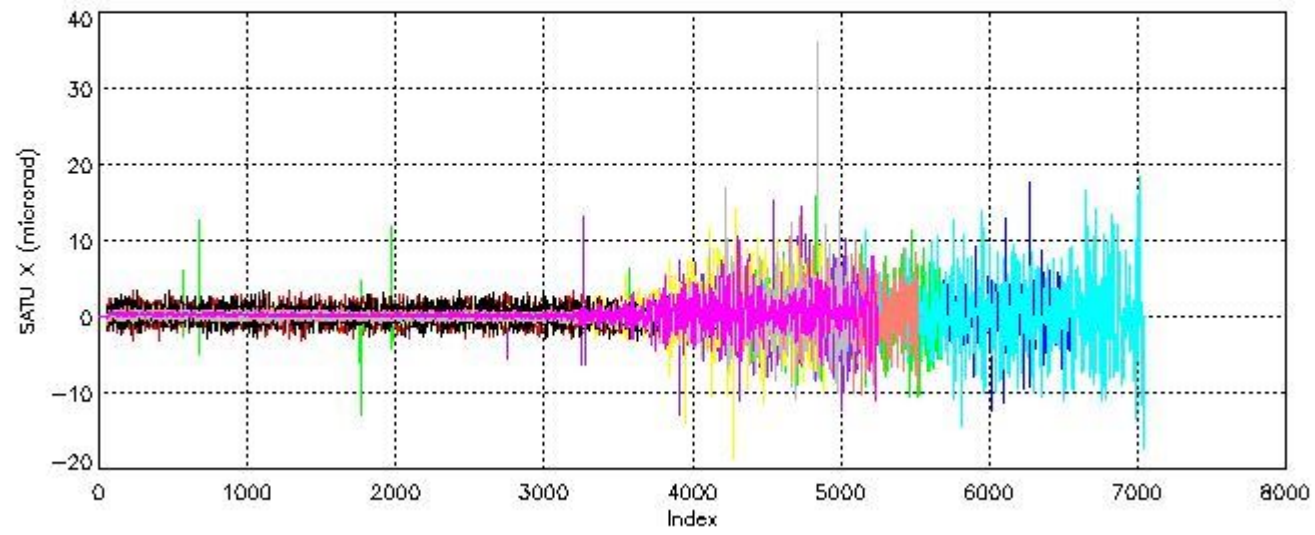


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.23045	-0.20666	0.22085	-0.24326
St. deviation:	0.46509	0.61427	0.66674	0.79521
Maximum:	12.600	4.6000	3.9000	4.0000
Minimum:	-5.0000	-8.9000	-3.8000	-4.0000

Number of data:	11300.	11300.	10850.	10850.
90Percentile:	0.80000	0.60000	1.1000	0.80000

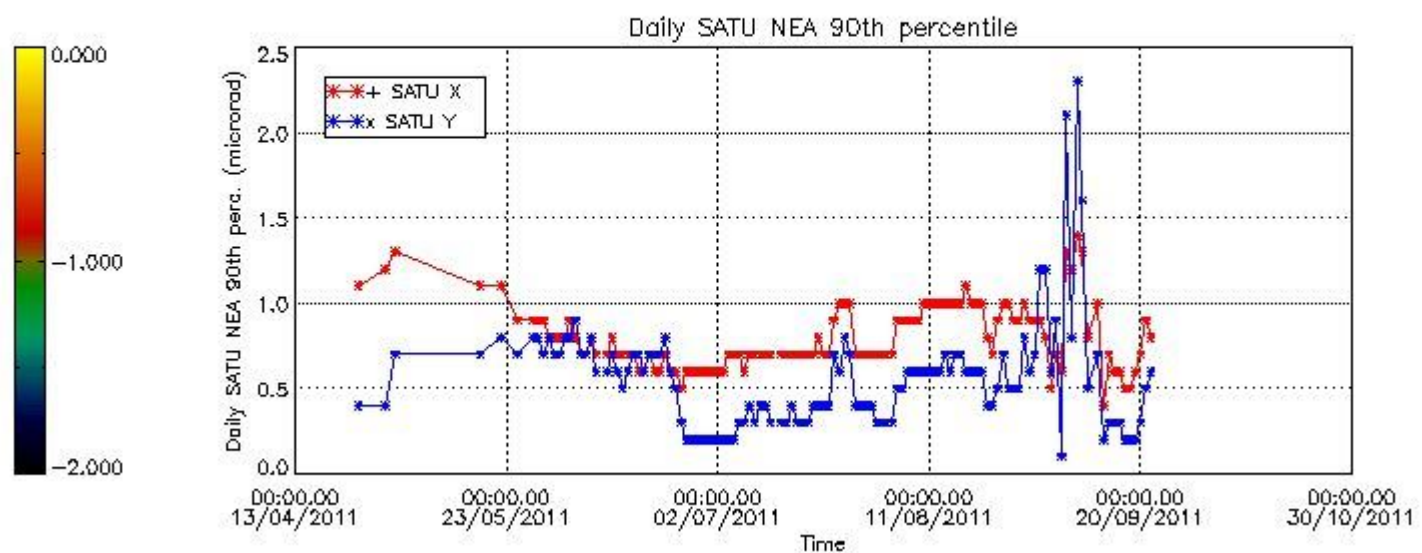
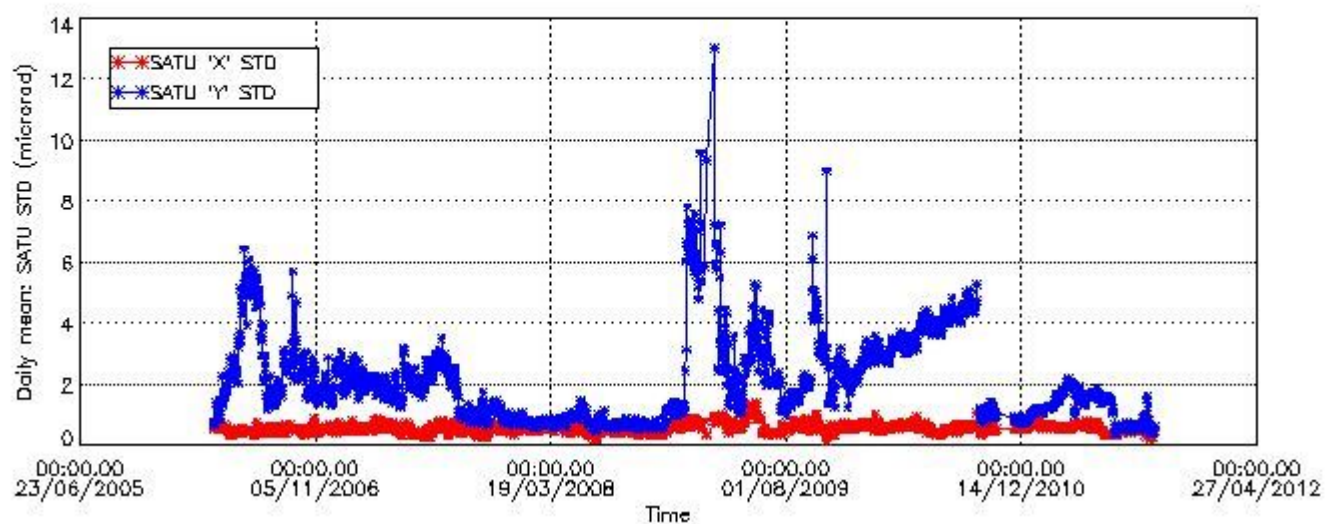
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

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

Upper curve: STD of SATU Y axis

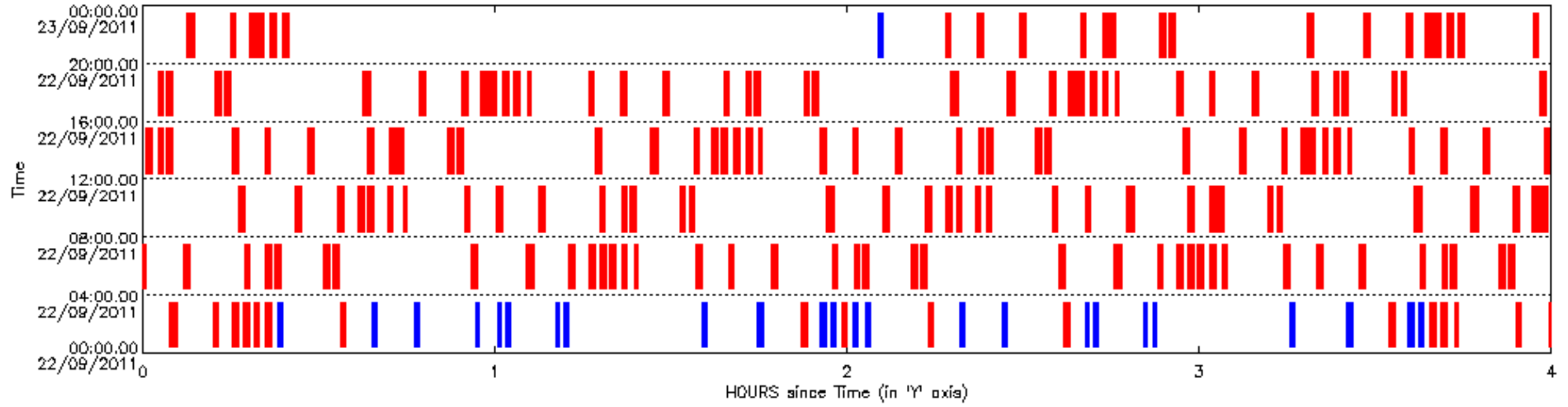
Lower curve: STD of SATU X axis

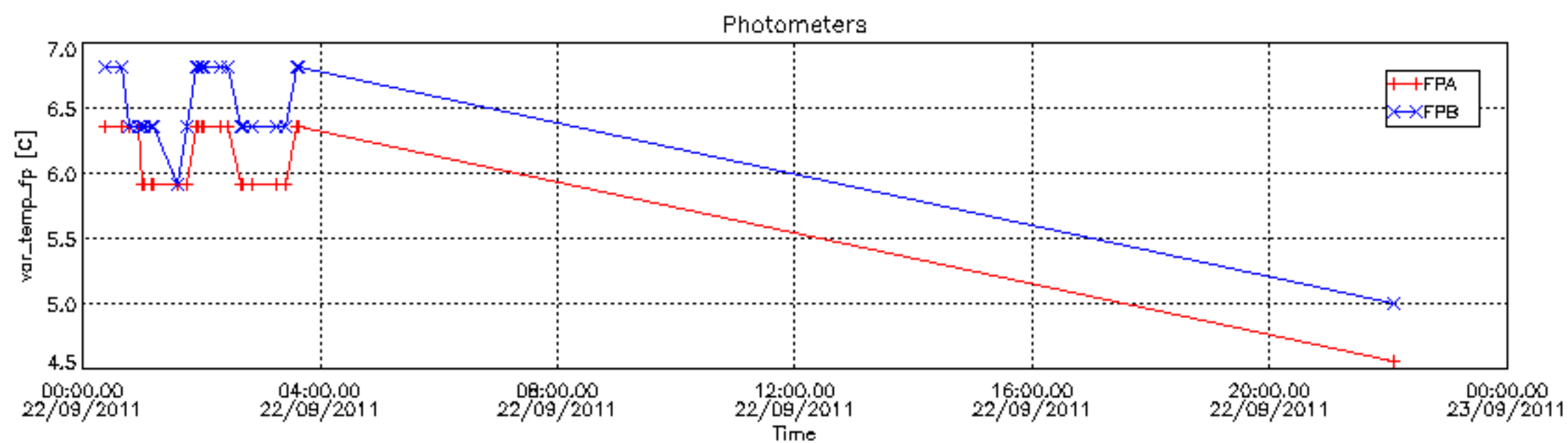
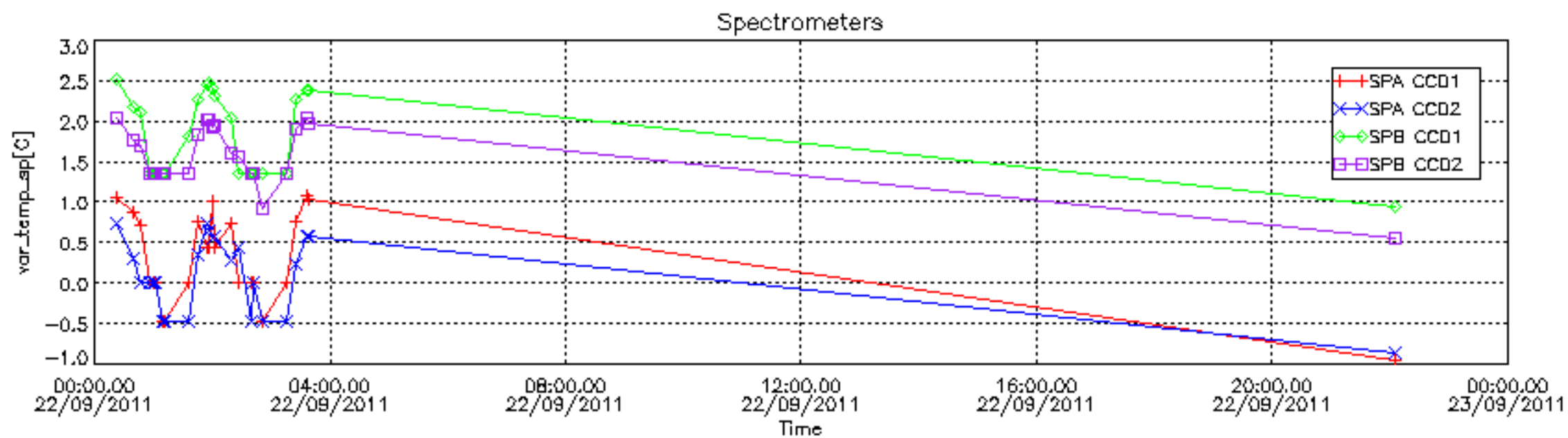


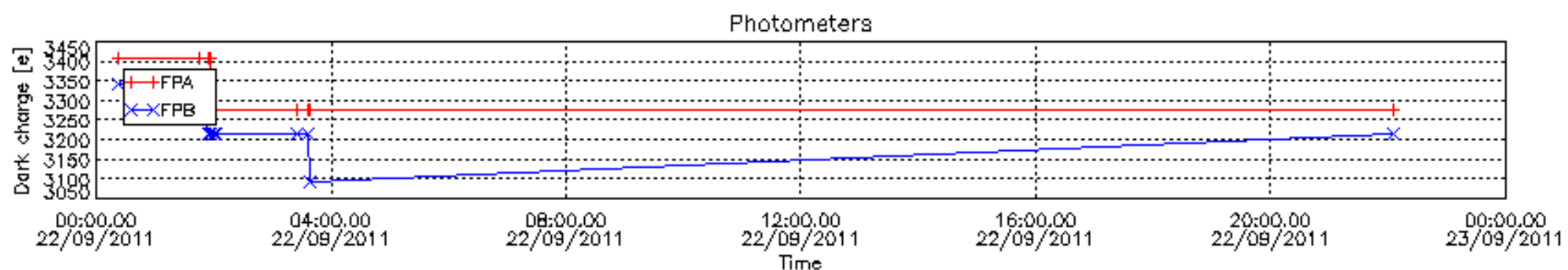
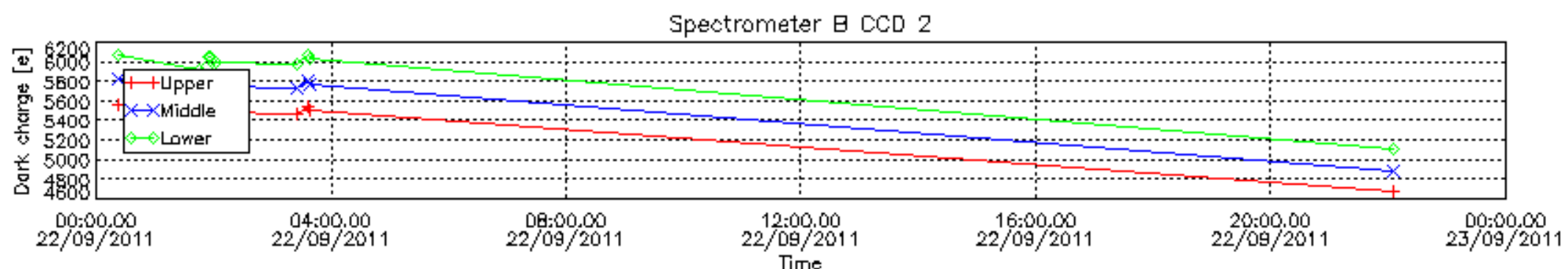
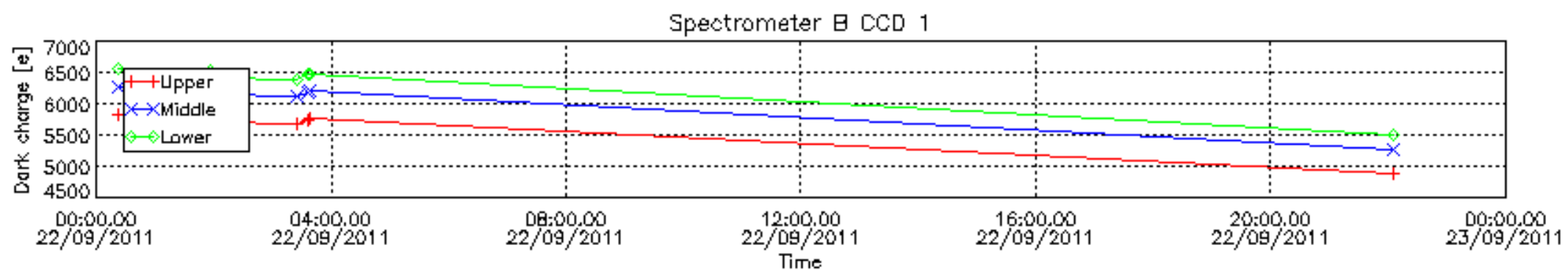
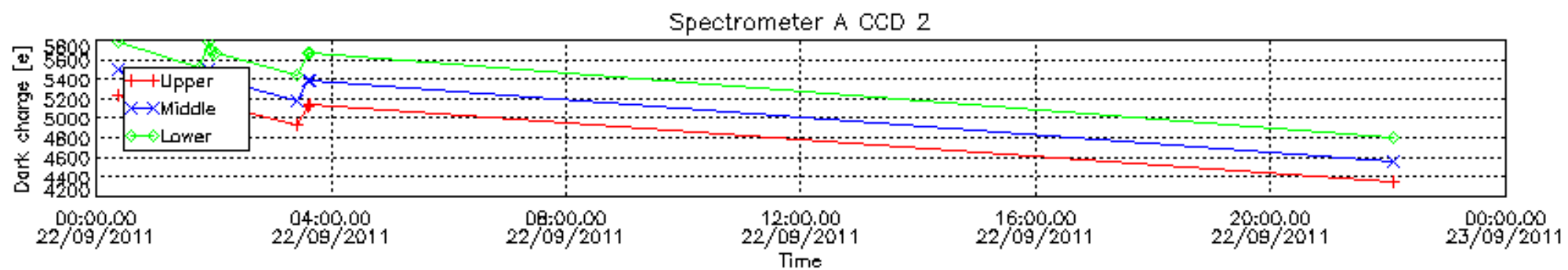
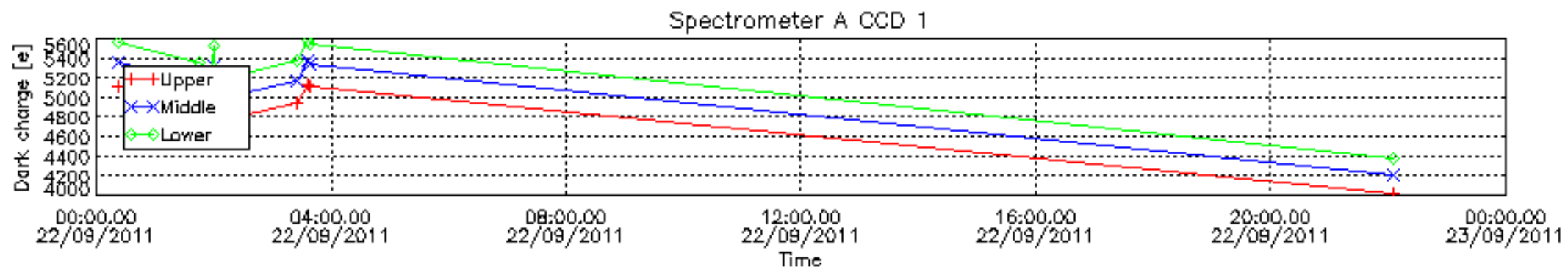
8. Auxiliary Data Files used for the production reported in section 2.4

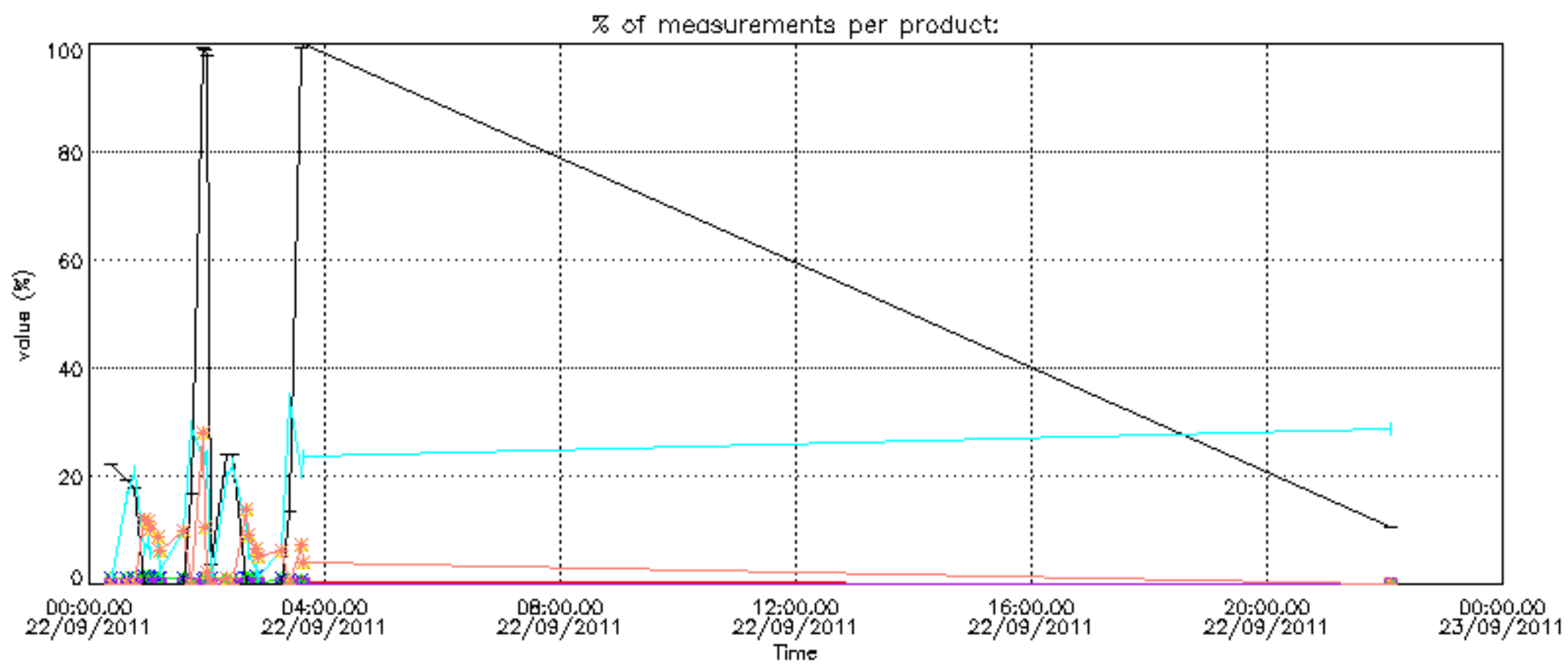
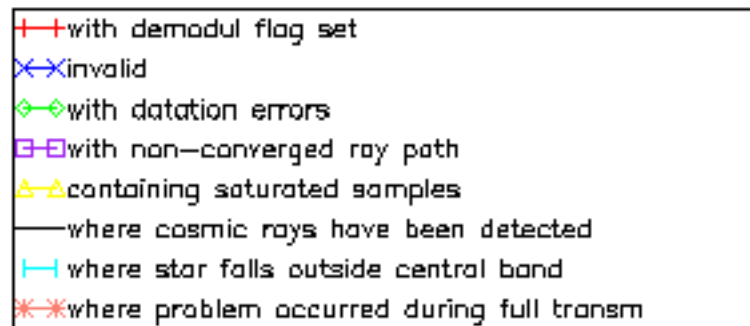
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-SEP-2011 00:22:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110915_075659_20110914_000000_20500101_000000	1	22-SEP-2011 00:22:54
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	22-SEP-2011 00:22:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-SEP-2011 00:22:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	22-SEP-2011 00:22:54
ECMWF_FILE	AUX_ECF_AXNECM20110921_061755_20110921_210000_20110922_090000	1	22-SEP-2011 00:22:54
ECMWF_FILE	AUX_ECA_AXNECM20110922_181359_20110922_030000_20110922_150000	21	22-SEP-2011 03:15:29
ECMWF_FILE	MISSING	25	22-SEP-2011 22:05:16
OPTIONAL_ECMWF_FILE	MISSING	1	22-SEP-2011 00:22:54
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110921_101754_20110920_195646_20110930_203017	1	22-SEP-2011 00:22:54

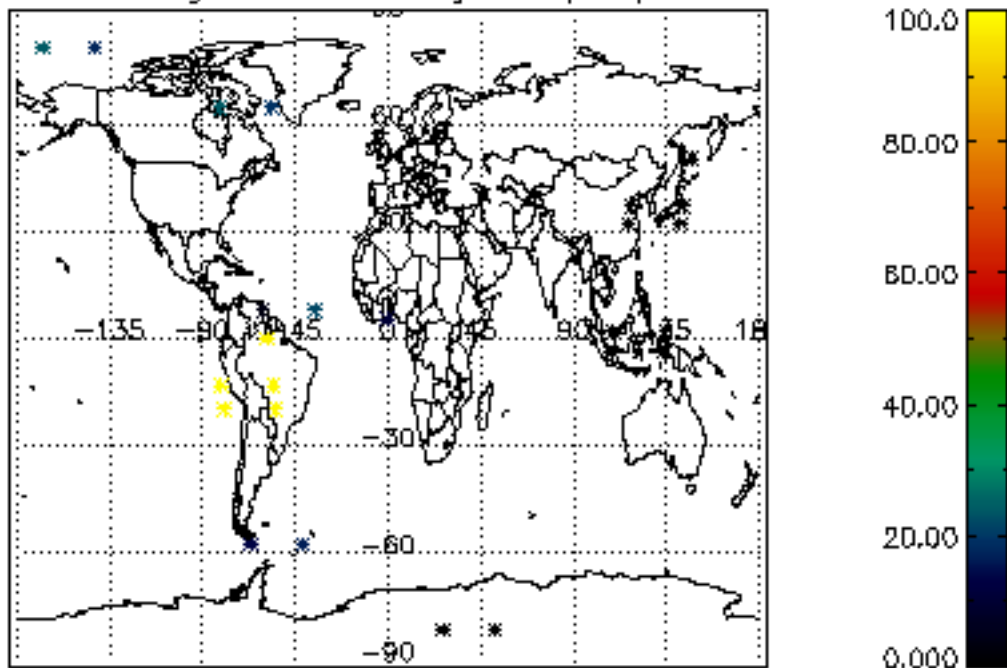




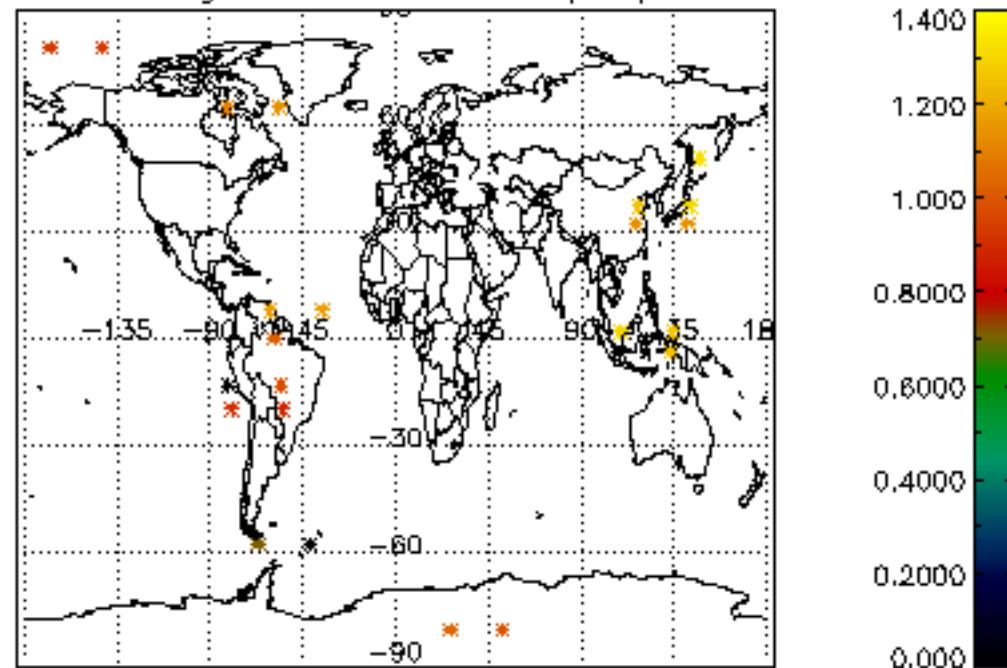




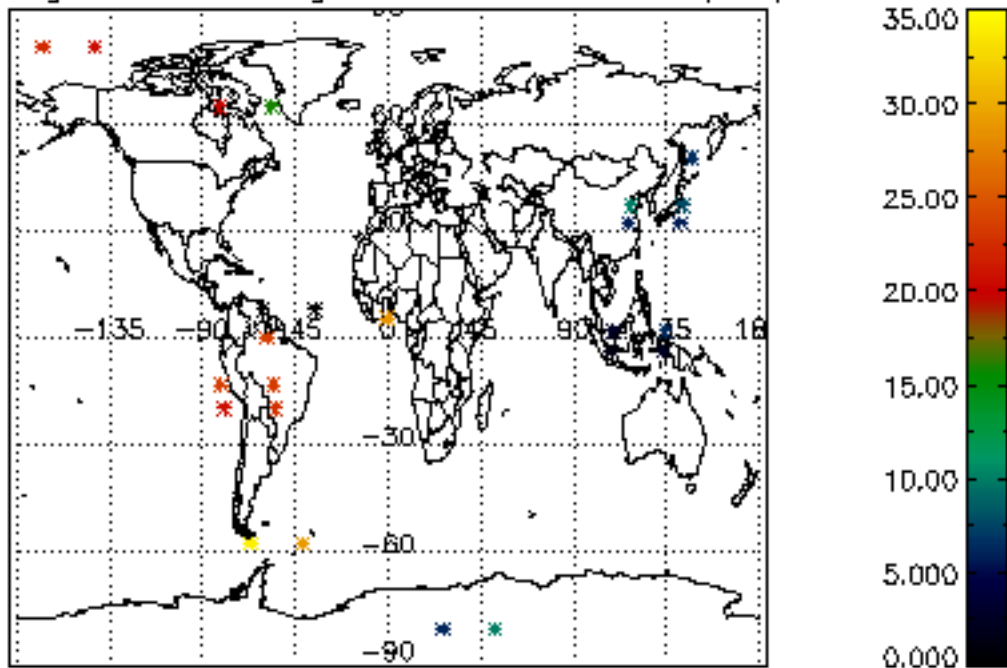
Percentage of cosmic ray hits per profile



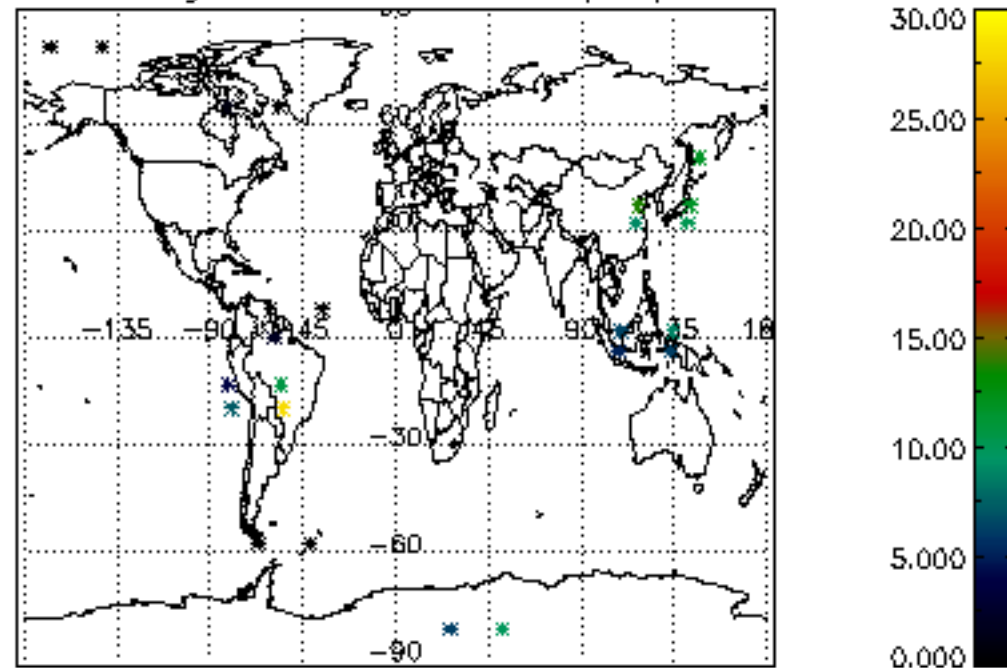
Percentage of datation errors per profile



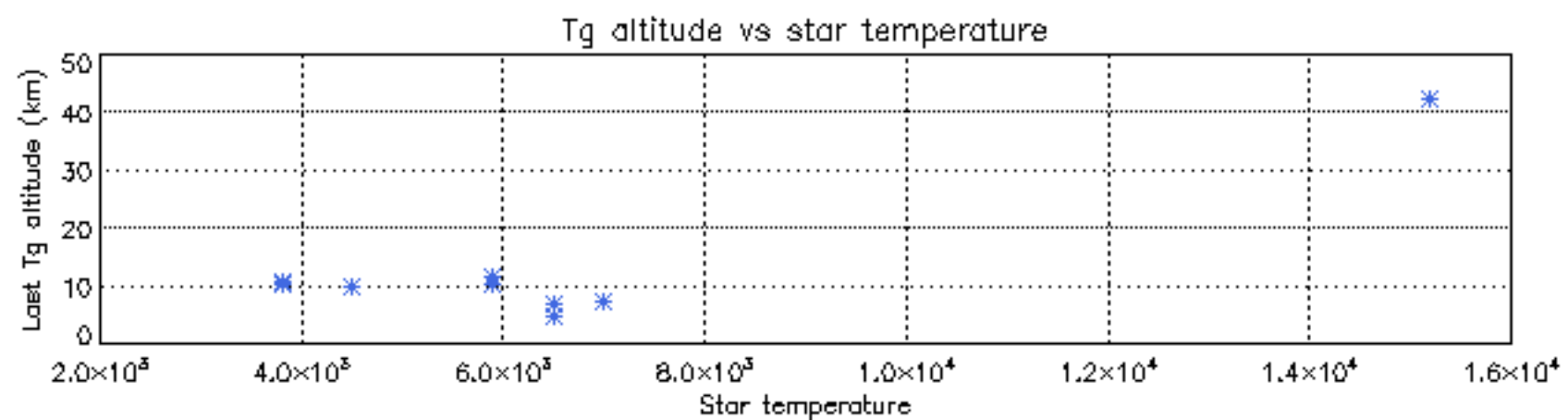
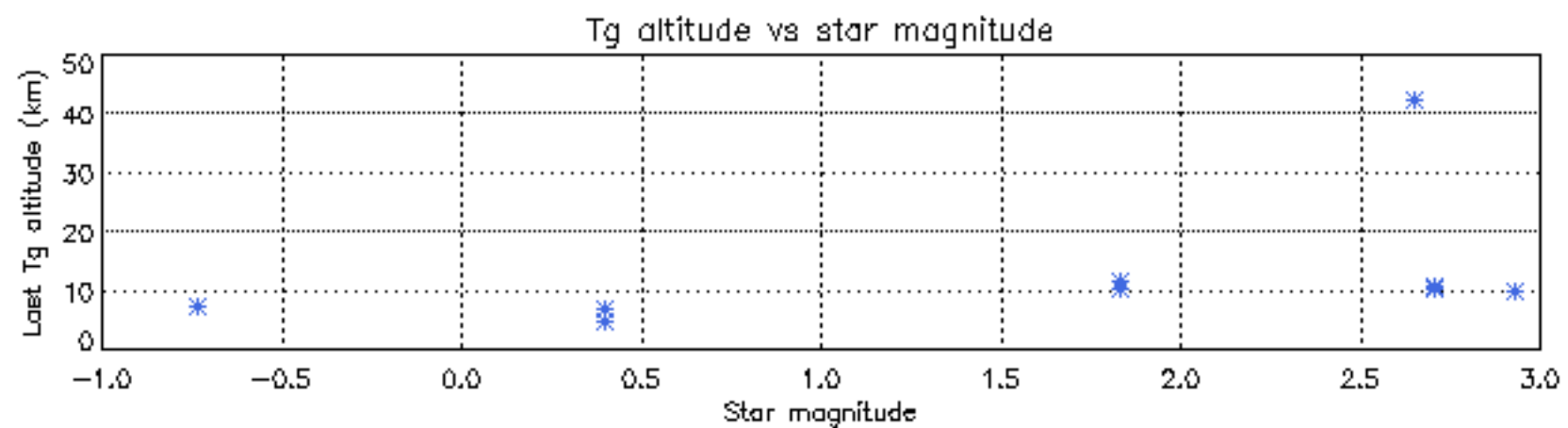
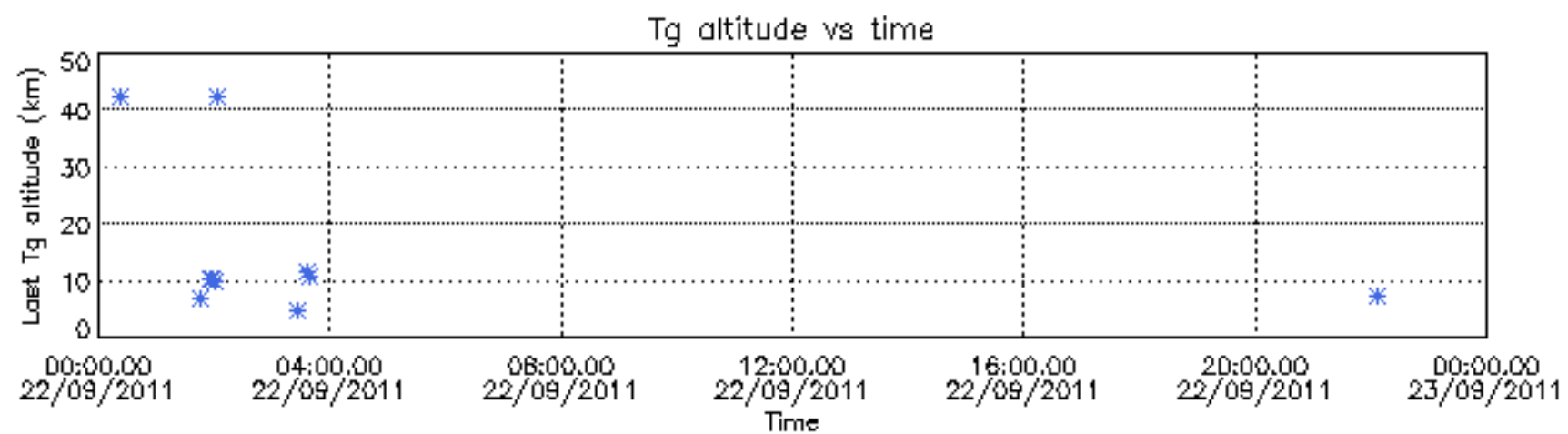
Percentage of star falling outside central band per profile



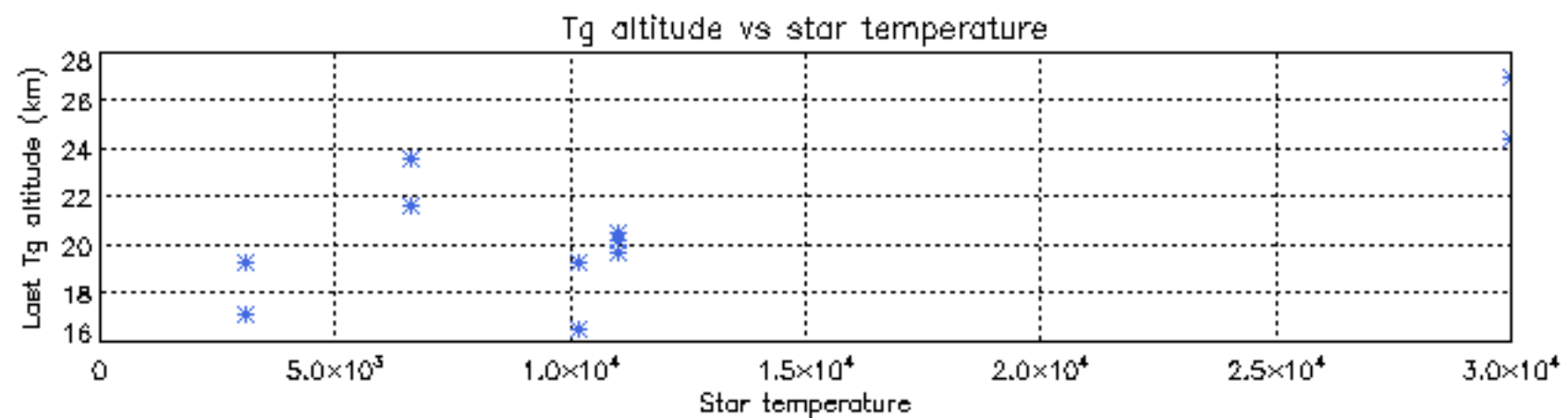
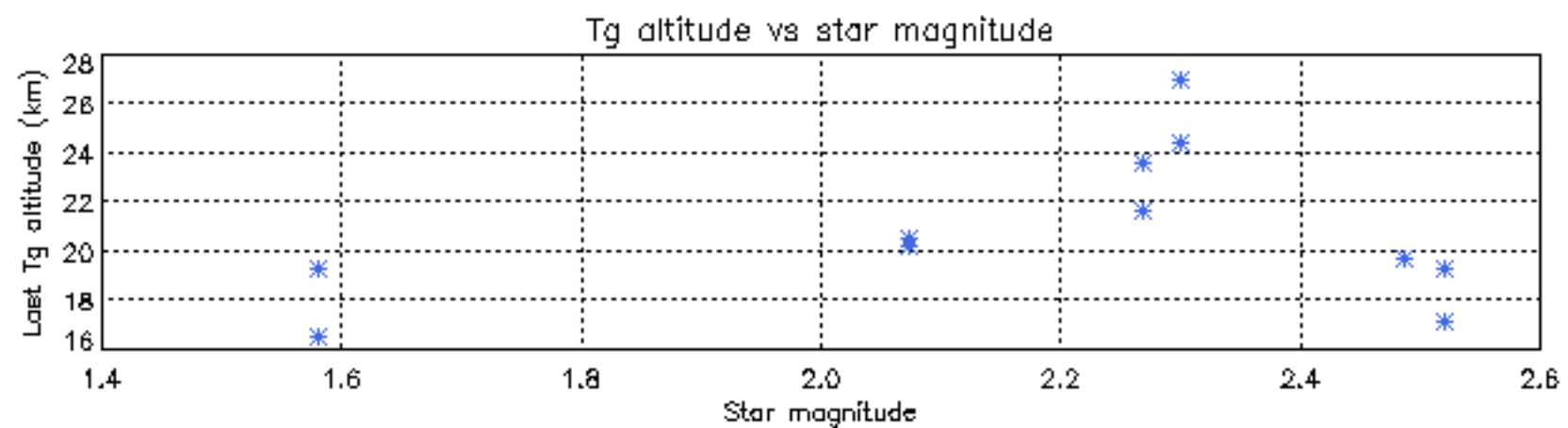
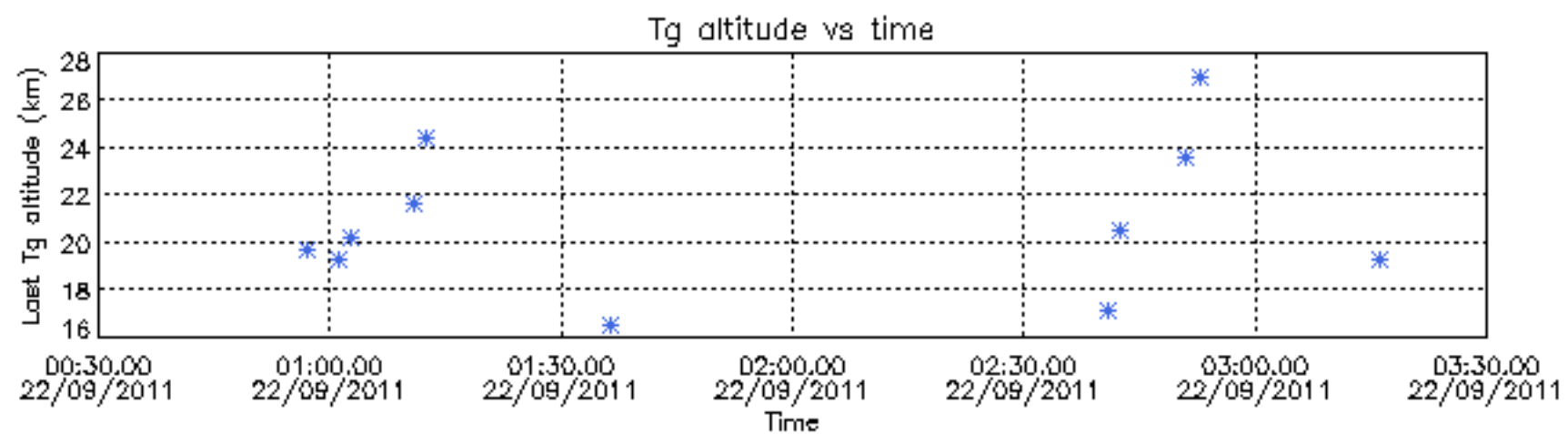
Percentage of saturation errors per profile

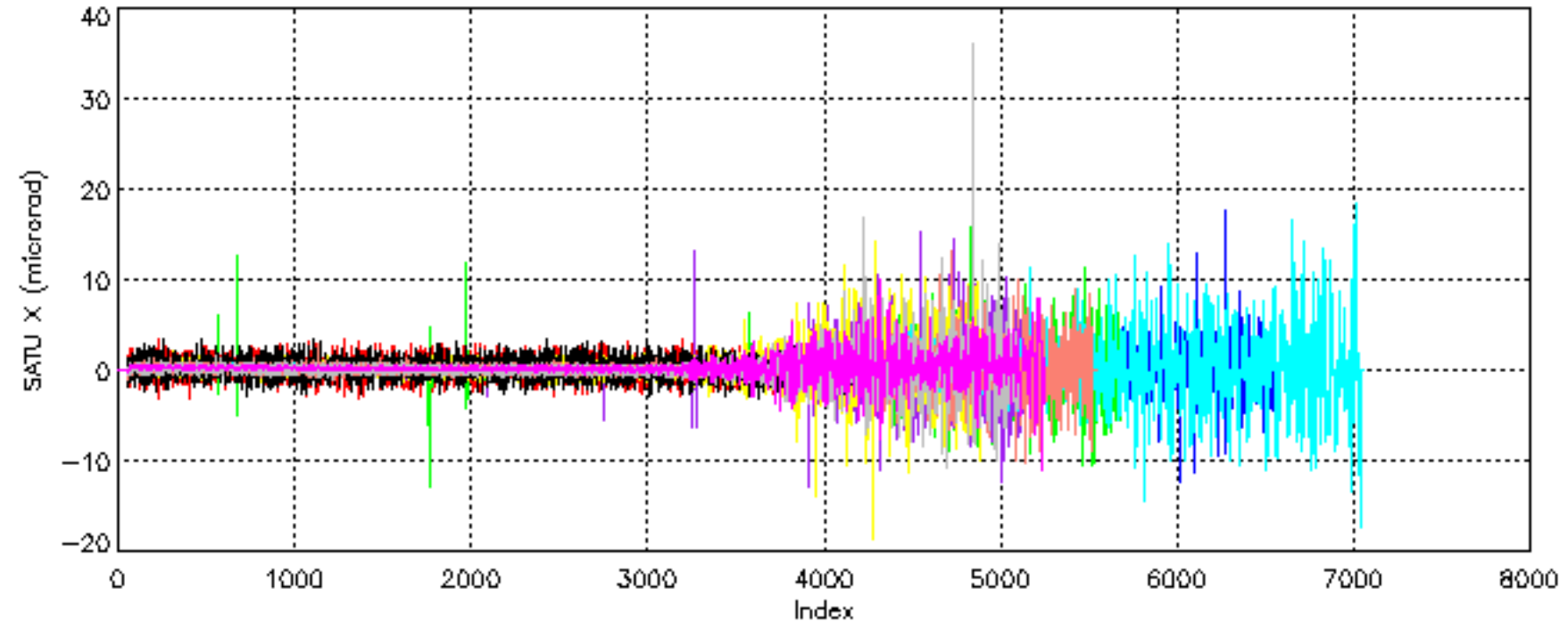


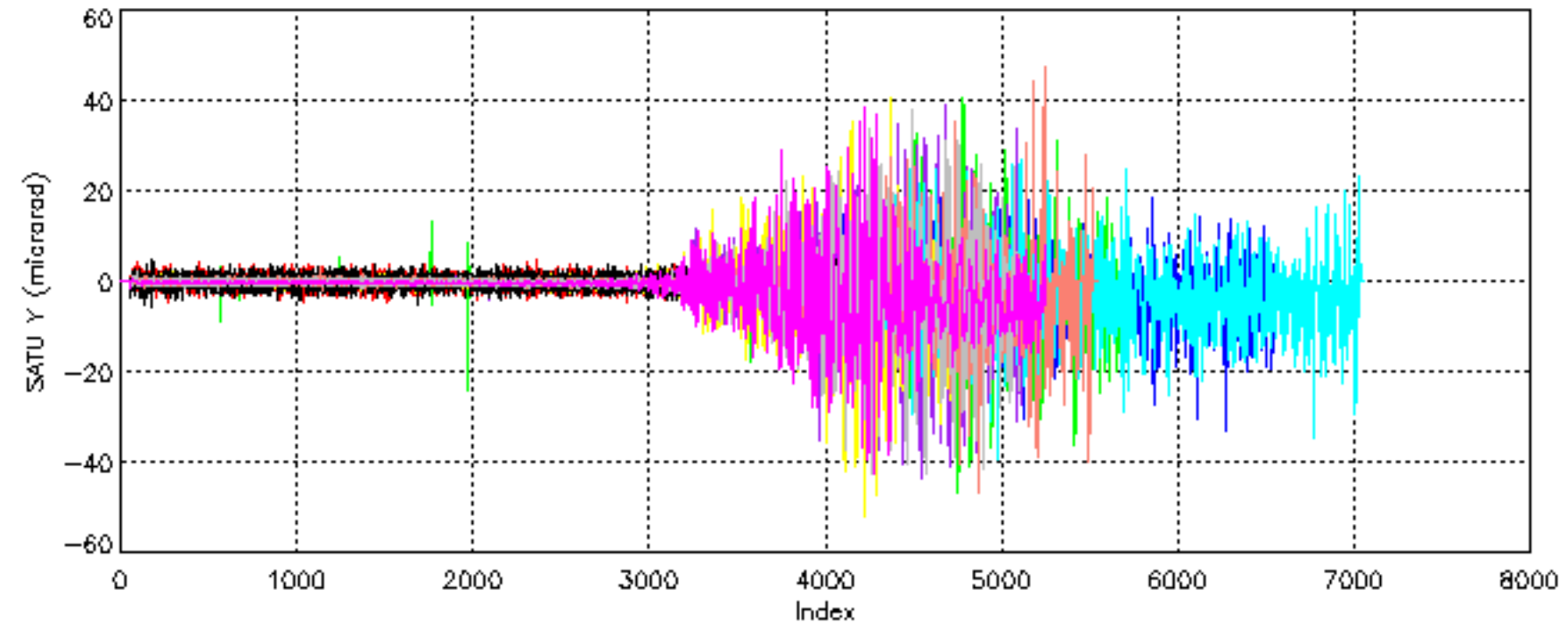
Tangent altitude at which the star is lost

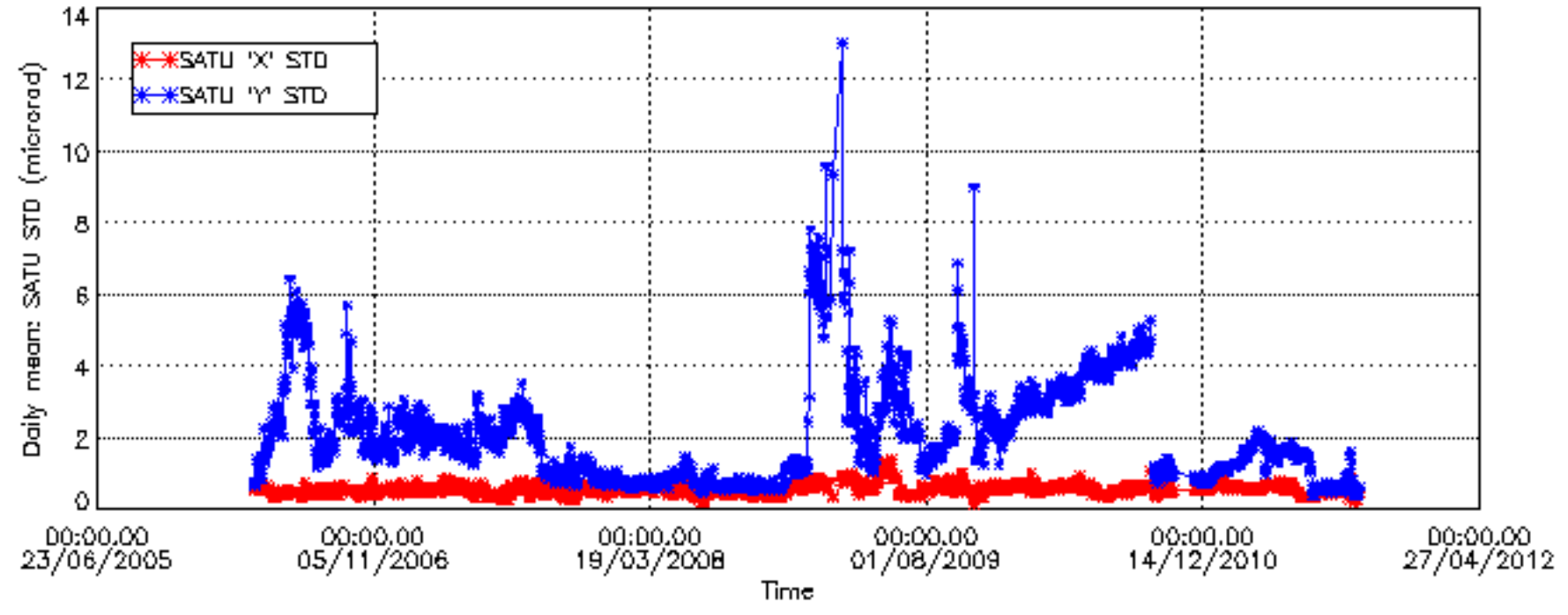


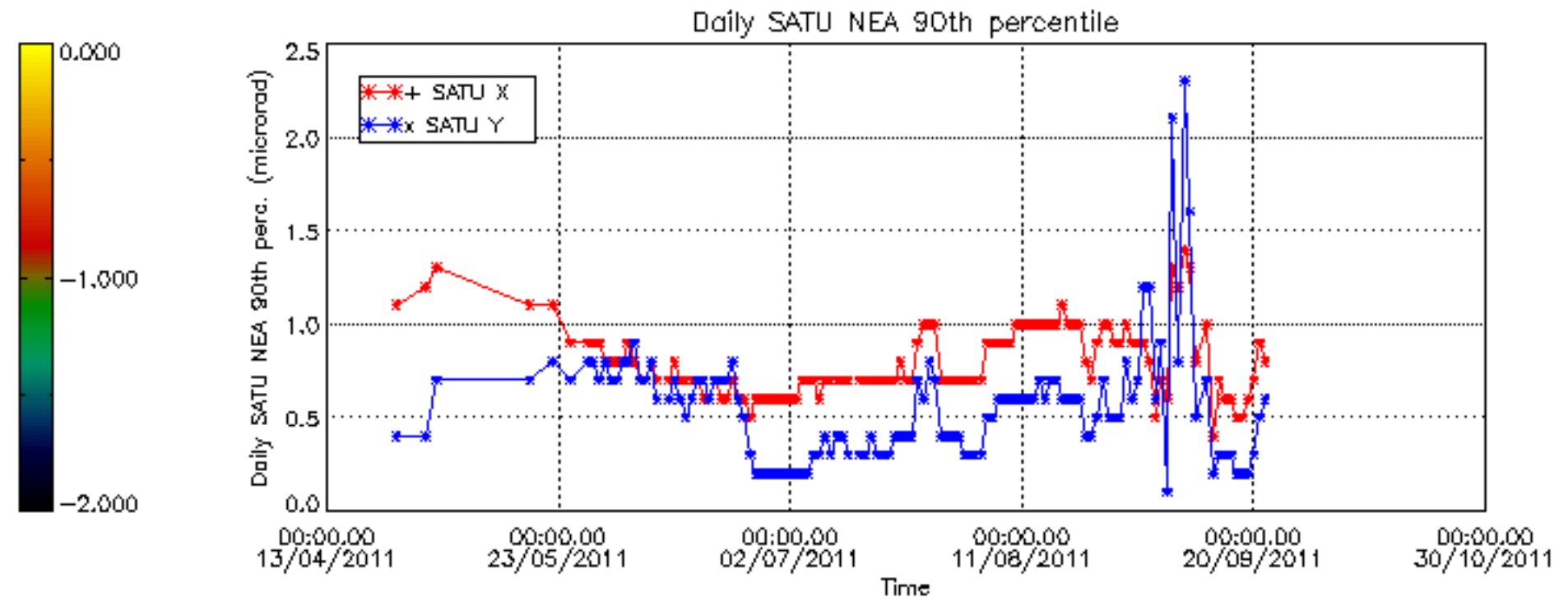
Tangent altitude at which the star is lost











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

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

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

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

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

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

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

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

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

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

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

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

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

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3; 984.2; 03-SEP-2011 22:16:37; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;49742
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
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5; 982.2; 03-SEP-2011 15:35:39; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;49738
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8; 2434.9; 09-SEP-2011 22:20:48; Bright; 38.5; 164; 44Eta Peg ; 2.95; 5400;occ; 77; 0;49828
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8; 5723.0; 09-SEP-2011 09:53:44; Dark ; 46.0; 177; 1Zet CMA ; 3.02; 26000;occ; 92; 0;49820
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4; -242.7; 12-SEP-2011 21:26:11; Dark ; 46.0; 177; 1Zet CMA ; 3.02; 26000;occ; 92; 0;49870
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4; 1058.8; 14-SEP-2011 23:54:52; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;49901
5; 2166.1; 15-SEP-2011 00:13:19; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49901
6; 2397.4; 15-SEP-2011 00:17:10; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49901
7; 3009.9; 15-SEP-2011 00:27:23; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;49901
8; 3117.1; 15-SEP-2011 00:29:10; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49901
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2; 2166.8; 14-SEP-2011 19:12:38; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49898
3; 2398.1; 14-SEP-2011 19:16:29; Bright; 42.0; 93; 53Bet Peg ; 2.52; 3100;occ; 84; 0;49898
4; 3011.5; 14-SEP-2011 19:26:43; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49898
5; 3118.7; 14-SEP-2011 19:28:30; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49898
6; 4458.4; 14-SEP-2011 19:50:49; Bright; 43.5; 24; 66Alp Gem ; 1.58; 10200;occ; 87; 0;49898
7; 4977.2; 14-SEP-2011 19:59:28; Dark ; 53.5; 8; 10Alp CMI ; 0.40; 6500;occ; 107; 0;49898
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4; 716.6; 15-SEP-2011 01:29:23; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;49902
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6; 1516.0; 15-SEP-2011 01:42:43; Dark ; 26.0; 52; 16Bet Cet ; 2.04; 4500;occ; 52; 0;49902
7; 2165.9; 15-SEP-2011 01:53:33; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;49902
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6; 717.7; 15-SEP-2011 04:49:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;49904
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6; 718.2; 15-SEP-2011 06:30:07; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;49905
7; 1060.3; 15-SEP-2011 06:35:49; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;49905
8; 1516.3; 15-SEP-2011 06:43:25; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;49905
9; 2165.3; 15-SEP-2011 06:54:14; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49905
10; 2396.5; 15-SEP-2011 06:58:05; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49905
11; 2517.6; 15-SEP-2011 07:00:06; Bright; 33.0; 58; 21Alp And ; 2.07; 11000;occ; 66; 0;49905
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4; 2394.4; 15-SEP-2011 20:19:55; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49913
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6; 3004.6; 15-SEP-2011 20:30:05; Bright; 60.0; 74; 11Bet Cas ; 2.27; 6600;occ; 120; 0;49913
7; 3110.0; 15-SEP-2011 20:31:51; Bright; 63.0; 76; 27Gam Cas ; 2.30; 30000;occ; 126; 0;49913
8; 4460.3; 15-SEP-2011 20:54:21; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;49913
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9; 2511.0; 15-SEP-2011 23:42:19; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;49915
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7; 3102.3; 16-SEP-2011 21:35:12; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49928
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3; -457.1; 17-SEP-2011 03:16:49; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;49931
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5; -100.2; 17-SEP-2011 03:22:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49931
6; 731.5; 17-SEP-2011 03:36:37; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;49932
7; 1071.1; 17-SEP-2011 03:42:17; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49932
8; 1520.5; 17-SEP-2011 03:49:46; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;49932
9; 2161.6; 17-SEP-2011 04:00:27; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49932
10; 2390.3; 17-SEP-2011 04:04:16; Bright; 51.0; 93; 53Bet Peg ; 2.52; 3100;occ; 102; 0;49932
11; 2500.7; 17-SEP-2011 04:06:06; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;49932
12; 2996.7; 17-SEP-2011 04:14:22; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49932
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3; -455.9; 17-SEP-2011 04:57:04; Dark ; 73.5; 1; 9Alp CMA ; -1.44; 11000;occ; 147; 0;49932
4; -330.3; 17-SEP-2011 04:59:09; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;49932
5; -99.2; 17-SEP-2011 05:03:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49932
6; 1071.5; 17-SEP-2011 05:22:31; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49933
7; 1520.6; 17-SEP-2011 05:30:00; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;49933
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9; 2390.1; 17-SEP-2011 05:44:30; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49933
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11; 2996.4; 17-SEP-2011 05:54:36; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49933
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2; 1522.0; 17-SEP-2011 20:32:08; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;49942
3; 2160.3; 17-SEP-2011 20:42:46; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49942
4; 2388.3; 17-SEP-2011 20:46:34; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49942
5; 2494.5; 17-SEP-2011 20:48:20; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;49942
6; 2992.5; 17-SEP-2011 20:56:38; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49942
7; 3094.7; 17-SEP-2011 20:58:20; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;49942

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

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9; 5687.2; 17-SEP-2011 11:40:09; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;49936
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11; 6747.8; 17-SEP-2011 11:57:50; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49937
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4; 2994.7; 17-SEP-2011 12:35:30; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49937
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5; 2994.4; 17-SEP-2011 14:15:44; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49938
6; 3096.8; 17-SEP-2011 14:17:26; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49938
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6; 2993.0; 17-SEP-2011 19:16:25; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49941
7; 3095.3; 17-SEP-2011 19:18:07; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49941
8; 4464.0; 17-SEP-2011 19:40:56; Bright; 65.0; 24; 66Alp Gem ; 1.58; 10200;occ; 130; 0;49941
9; 5001.1; 17-SEP-2011 19:49:53; Dark ; 56.0; 8; 10Alp CMI ; 0.40; 6500;occ; 112; 0;49941
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4; 1076.0; 18-SEP-2011 01:25:23; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49945
5; 1522.2; 18-SEP-2011 01:32:49; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49945
6; 2159.8; 18-SEP-2011 01:43:27; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49945
7; 2387.6; 18-SEP-2011 01:47:15; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49945
8; 2492.7; 18-SEP-2011 01:49:00; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;49945
9; 2991.4; 18-SEP-2011 01:57:19; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49945
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10; 2991.0; 18-SEP-2011 03:37:32; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;49946
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6; 1077.3; 18-SEP-2011 06:26:07; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49948
7; 1522.8; 18-SEP-2011 06:33:32; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;49948
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9; 2387.2; 18-SEP-2011 06:47:56; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49948
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11; 2990.1; 18-SEP-2011 06:57:59; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49948
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2; 1524.0; 18-SEP-2011 19:55:25; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;49956
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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
5; 2486.6; 18-SEP-2011 20:11:28; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;49956
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7; 3087.3; 18-SEP-2011 20:21:28; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49956
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5; 743.3; 18-SEP-2011 21:22:38; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;49957
6; 1080.5; 18-SEP-2011 21:28:16; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49957
7; 1524.0; 18-SEP-2011 21:35:39; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;49957
8; 2158.5; 18-SEP-2011 21:46:13; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49957
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11; 2986.6; 18-SEP-2011 22:00:02; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;49957
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6; 1077.7; 18-SEP-2011 08:06:21; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49949
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5; 3091.0; 18-SEP-2011 08:39:54; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49949
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7; 5005.7; 18-SEP-2011 09:11:49; Dark ; 65.0; 8; 10Alp CMI ; 0.40; 6500;occ; 130; 0;49949
8; 5577.9; 18-SEP-2011 09:21:21; Dark ; 64.5; 1; 9Alp CMA ; -1.44; 11000;occ; 129; 0;49949
9; 5698.8; 18-SEP-2011 09:23:22; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;49949
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11; 7092.0; 18-SEP-2011 09:46:35; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;49950
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9; 5699.7; 18-SEP-2011 11:03:37; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;49950
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3; 2488.7; 18-SEP-2011 13:30:34; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;49952
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5; 3089.4; 18-SEP-2011 13:40:34; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;49952
6; 4465.4; 18-SEP-2011 14:03:30; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;49952
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6; 3089.0; 18-SEP-2011 15:20:48; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;49953

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9; 5584.1; 18-SEP-2011 17:42:37; Dark ; 73.5; 1; 9Alp CMA ; -1.44; 11000;occ; 147; 0;49954
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7; 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
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4; 2156.9; 19-SEP-2011 22:49:41; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;49972
5; 2382.9; 19-SEP-2011 22:53:27; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;49972
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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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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4; 110.8; 20-SEP-2011 23:19:04; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;49987
5; 1091.3; 20-SEP-2011 23:35:25; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;49987
6; 1528.5; 20-SEP-2011 23:42:42; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;49987
7; 2380.7; 20-SEP-2011 23:56:54; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;49987

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10; 3071.9; 21-SEP-2011 00:08:26; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;49987
11; 4469.9; 21-SEP-2011 00:31:44; Bright; 47.0; 24; 66Alp Gem ; 1.58; 10200;occ; 94; 0;49987
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4; 2977.0; 20-SEP-2011 15:45:41; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49982
5; 3074.4; 20-SEP-2011 15:47:18; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;49982
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9; 5776.4; 20-SEP-2011 16:32:20; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;49982
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12; 2974.0; 21-SEP-2011 05:07:29; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49990
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1; -334.9; 21-SEP-2011 22:34:54; Dark ; 56.5; 37; 25Del CMA ; 1.83; 5900;occ; 113; 0;50000
2; -224.0; 21-SEP-2011 22:36:45; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;50000
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1; 1095.8; 21-SEP-2011 21:18:31; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;50000
2; 1530.2; 21-SEP-2011 21:25:45; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;50000
3; 2155.1; 21-SEP-2011 21:36:10; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;50000
4; 2379.0; 21-SEP-2011 21:39:54; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;50000
5; 2463.9; 21-SEP-2011 21:41:19; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;50000
6; 2970.4; 21-SEP-2011 21:49:46; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;50000
7; 3065.4; 21-SEP-2011 21:51:21; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50000
8; 4471.6; 21-SEP-2011 22:14:47; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;50000
9; 5038.8; 21-SEP-2011 22:24:14; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;50000
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2; 1096.4; 22-SEP-2011 00:38:59; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;50002
3; 1530.6; 22-SEP-2011 00:46:14; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;50002
4; 2154.8; 22-SEP-2011 00:56:38; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;50002
5; 2378.7; 22-SEP-2011 01:00:22; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;50002
6; 2462.9; 22-SEP-2011 01:01:46; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;50002
7; 2969.7; 22-SEP-2011 01:10:13; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50002
8; 3064.5; 22-SEP-2011 01:11:47; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50002
9; 4471.9; 22-SEP-2011 01:35:15; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;50002
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2; -222.5; 22-SEP-2011 01:57:14; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;50002
3; 1.5; 22-SEP-2011 02:00:58; Dark ; 49.0; 161; Tau Pup ; 2.93; 4500;occ; 98; 0;50002
4; 132.9; 22-SEP-2011 02:03:10; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;50003
5; 1096.8; 22-SEP-2011 02:19:14; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;50003
6; 1530.8; 22-SEP-2011 02:26:28; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;50003
7; 2378.6; 22-SEP-2011 02:40:35; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;50003
8; 2462.5; 22-SEP-2011 02:41:59; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;50003
9; 2969.4; 22-SEP-2011 02:50:26; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;50003
10; 3063.9; 22-SEP-2011 02:52:01; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;50003
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2; -973.1; 22-SEP-2011 03:24:58; Dark ; 70.5; 8; 10Alp CMI ; 0.40; 6500;occ; 141; 0;50003
3; -331.9; 22-SEP-2011 03:35:39; Dark ; 55.5; 37; 25Del CMA ; 1.83; 5900;occ; 111; 0;50003
4; -221.6; 22-SEP-2011 03:37:29; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;50003
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1; 91.9; 22-SEP-2011 22:05:16; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;50015
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1; 1532.5; 23-SEP-2011 00:09:31; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;50016
2; 2456.8; 23-SEP-2011 00:24:55; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;50016
3; 3057.7; 23-SEP-2011 00:34:56; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;50016
4; 4473.8; 23-SEP-2011 00:58:32; Bright; 50.0; 24; 66Alp Gem ; 1.58; 10200;occ; 100; 0;50016
5; 5050.3; 23-SEP-2011 01:08:09; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;50016
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1; -249.1; 23-SEP-2011 01:20:03; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;50016
2; 10.8; 23-SEP-2011 01:24:23; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;50017
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1; 911.7; 26-SEP-2011 19:51:58; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 80;50071
2; 3033.2; 26-SEP-2011 20:27:20; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50071
3; 4565.0; 26-SEP-2011 20:52:52; Bright; 26.5; 17; 78Bet Gem ; 1.16; 4500;occ; 53; 0;50071
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2; -188.2; 26-SEP-2011 21:13:52; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;50071
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2;-1450.0; 26-SEP-2011 12:31:41; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;50066
3; -491.6; 26-SEP-2011 12:47:39; Dark ; 49.0; 132; 15Rho Pup ; 2.80; 6900;occ; 98; 0;50066
4; -287.6; 26-SEP-2011 12:51:03; Dark ; 50.0; 88; 31Eta CMA ; 2.45; 20000;occ; 100; 0;50066
5; -194.0; 26-SEP-2011 12:52:37; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;50066
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2; 3035.1; 26-SEP-2011 13:46:26; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50067
3; 4564.2; 26-SEP-2011 14:11:55; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;50067
4; 5727.2; 26-SEP-2011 14:31:18; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50067
5; 5821.1; 26-SEP-2011 14:32:52; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;50067
6; 6883.3; 26-SEP-2011 14:50:34; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50068
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1; 2183.8; 26-SEP-2011 15:12:28; Bright; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;50068
2; 3034.7; 26-SEP-2011 15:26:39; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50068
3; 4564.4; 26-SEP-2011 15:52:09; Bright; 35.0; 17; 78Bet Gem ; 1.16; 4500;occ; 70; 0;50068
4; 5728.3; 26-SEP-2011 16:11:33; Dark ; 49.5; 88; 31Eta CMA ; 2.45; 20000;occ; 99; 0;50068
5; 5822.4; 26-SEP-2011 16:13:07; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;50068
6; 6884.2; 26-SEP-2011 16:30:49; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;50069
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2; 3034.1; 26-SEP-2011 17:06:53; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50069
3; 4564.8; 26-SEP-2011 17:32:23; Bright; 35.0; 17; 78Bet Gem ; 1.16; 4500;occ; 70; 0;50069
4; 5729.2; 26-SEP-2011 17:51:48; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50069
5; 5823.5; 26-SEP-2011 17:53:22; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;50069
6; 6885.0; 26-SEP-2011 18:11:04; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50070
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1;-2980.4; 26-SEP-2011 18:47:06; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50070
2;-1449.2; 26-SEP-2011 19:12:37; Bright; 27.0; 17; 78Bet Gem ; 1.16; 4500;occ; 54; 0;50070
3; -283.9; 26-SEP-2011 19:32:03; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50070
4; -189.4; 26-SEP-2011 19:33:37; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;50070
5; 871.7; 26-SEP-2011 19:51:18; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50071
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2; 3026.9; 27-SEP-2011 21:30:43; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50086
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1; -268.0; 27-SEP-2011 22:16:02; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50086
2; -170.7; 27-SEP-2011 22:17:39; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;50086
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1; 54.5; 27-SEP-2011 10:39:47; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;50080
2; 138.1; 27-SEP-2011 10:41:10; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;50080
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2; 2944.7; 27-SEP-2011 11:27:57; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50080
3; 3029.6; 27-SEP-2011 11:29:22; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;50080
4; 5532.6; 27-SEP-2011 12:11:05; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;50080
5; 5739.9; 27-SEP-2011 12:14:32; Dark ; 50.0; 88; 31Eta CMA ; 2.45; 20000;occ; 100; 0;50080
6; 5836.1; 27-SEP-2011 12:16:08; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;50080
7; 5947.0; 27-SEP-2011 12:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;50080
8; 6069.1; 27-SEP-2011 12:20:01; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;50081
9; 6152.7; 27-SEP-2011 12:21:25; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;50081
10; 6893.5; 27-SEP-2011 12:33:46; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50081
11; 7555.6; 27-SEP-2011 12:44:48; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;50081
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2; 2944.4; 27-SEP-2011 13:08:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;50081
3; 3029.2; 27-SEP-2011 13:09:35; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;50081
4; 5533.4; 27-SEP-2011 13:51:20; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50081
5; 5740.9; 27-SEP-2011 13:54:47; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;50081
6; 5837.4; 27-SEP-2011 13:56:24; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;50081
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2; 2944.3; 27-SEP-2011 14:48:24; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;50082
3; 3028.8; 27-SEP-2011 14:49:49; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50082
4; 5534.2; 27-SEP-2011 15:31:34; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;50082

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

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

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