

GOMOS Daily Report 01-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	04SEP2011 07:01:43
Data source version	GOMOS/6.01
Start time of products	01SEP2011 01:09:59
Stop time of products	01SEP2011 23:48:03
Store outputs in DB	Yes
Nb of level 1b prods	21
Nb of prods with errors	0

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

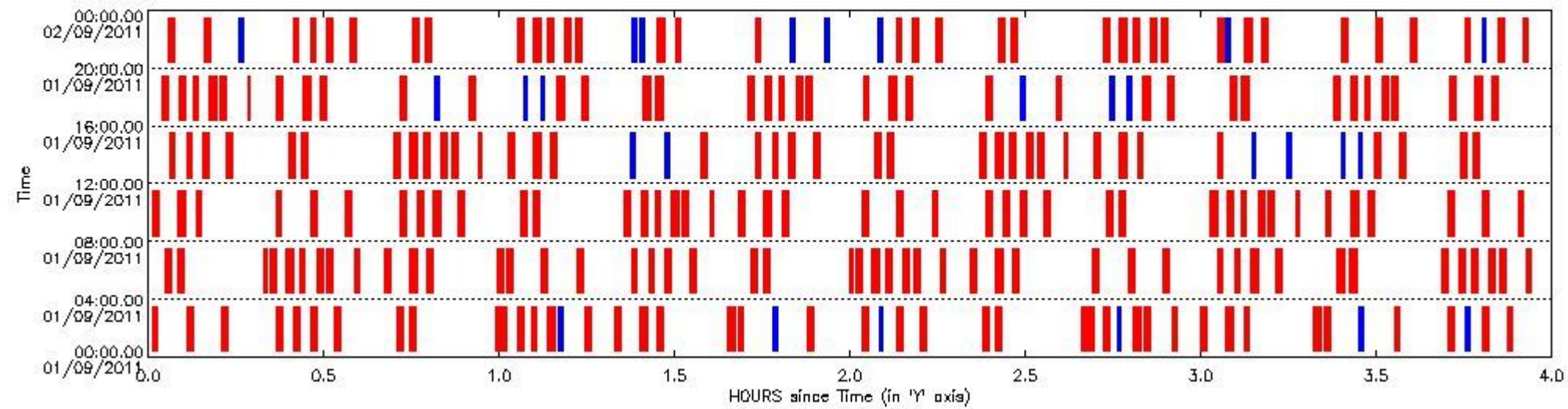
2.1 Level 0 products arrived in PCF (see template [here](#))

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
01-SEP-2011 00:00:35	AlpEri	9	49700
01-SEP-2011 00:06:31	AlpPhe	84	49700
01-SEP-2011 00:12:33	24AlpPsA	18	49700
01-SEP-2011 00:21:53	34AlpAqr	162	49700
01-SEP-2011 00:24:52	8EpsPeg	61	49700
01-SEP-2011 00:27:39	54AlpPeg	90	49700
01-SEP-2011 00:31:50	44EtaPeg	164	49700
01-SEP-2011 00:42:27	11BetCas	74	49700
01-SEP-2011 00:44:33	27GamCas	76	49700
01-SEP-2011 00:59:19	13AlpAur	6	49700
01-SEP-2011 01:00:14	34BetAur	42	49700
01-SEP-2011 01:03:05	37TheAur	107	49700
01-SEP-2011 01:05:25	78BetGem	17	49700
01-SEP-2011 01:08:17	13MuGem	151	49700
01-SEP-2011 01:14:43	58AlpOri	14	49700

01-SEP-2011 01:19:47	9AlpCMa	1	49700
01-SEP-2011 01:24:01	11AlpLep	101	49700
01-SEP-2011 01:27:03	DSA1062	0	49700
01-SEP-2011 01:39:00	The1Eri	157	49701
01-SEP-2011 01:40:50	AlpEri	9	49701
01-SEP-2011 01:52:47	24AlpPsA	18	49701
01-SEP-2011 02:02:07	34AlpAqr	162	49701
01-SEP-2011 02:07:52	54AlpPeg	90	49701
01-SEP-2011 02:12:03	44EtaPeg	164	49701
01-SEP-2011 02:22:40	11BetCas	74	49701
01-SEP-2011 02:24:46	27GamCas	76	49701
01-SEP-2011 02:39:32	13AlpAur	6	49701
01-SEP-2011 02:40:27	34BetAur	42	49701
01-SEP-2011 02:43:19	37TheAur	107	49701
01-SEP-2011 02:48:31	13MuGem	151	49701
01-SEP-2011 02:50:18	24GamGem	44	49701
01-SEP-2011 02:54:58	58AlpOri	14	49701
01-SEP-2011 03:00:02	9AlpCMa	1	49701
01-SEP-2011 03:04:16	11AlpLep	101	49701
01-SEP-2011 03:07:19	DSA1062	0	49701
01-SEP-2011 03:19:15	The1Eri	157	49702
01-SEP-2011 03:21:04	AlpEri	9	49702
01-SEP-2011 03:33:02	24AlpPsA	18	49702
01-SEP-2011 03:42:21	34AlpAqr	162	49702
01-SEP-2011 03:48:05	54AlpPeg	90	49702
01-SEP-2011 03:52:17	44EtaPeg	164	49702
01-SEP-2011 04:02:53	11BetCas	74	49702
01-SEP-2011 04:04:59	27GamCas	76	49702
01-SEP-2011 04:19:46	13AlpAur	6	49702
01-SEP-2011 04:20:41	34BetAur	42	49702
01-SEP-2011 04:23:33	37TheAur	107	49702
01-SEP-2011 04:25:53	78BetGem	17	49702
01-SEP-2011 04:28:45	13MuGem	151	49702
01-SEP-2011 04:30:32	24GamGem	44	49702
01-SEP-2011 04:35:13	58AlpOri	14	49702
01-SEP-2011 04:40:17	9AlpCMa	1	49702
01-SEP-2011 04:44:32	11AlpLep	101	49702
01-SEP-2011 04:47:34	DSA1062	0	49702
01-SEP-2011 04:59:30	The1Eri	157	49703
01-SEP-2011 05:01:19	AlpEri	9	49703
01-SEP-2011 05:07:14	AlpPhe	84	49703
01-SEP-2011 05:13:16	24AlpPsA	18	49703
01-SEP-2011 05:22:35	34AlpAqr	162	49703
01-SEP-2011 05:25:34	8EpsPeg	61	49703
01-SEP-2011 05:28:19	54AlpPeg	90	49703
01-SEP-2011 05:32:30	44EtaPeg	164	49703
01-SEP-2011 05:43:07	11BetCas	74	49703
01-SEP-2011 05:45:13	27GamCas	76	49703
01-SEP-2011 06:00:00	13AlpAur	6	49703
01-SEP-2011 06:00:55	34BetAur	42	49703
01-SEP-2011 06:03:47	37TheAur	107	49703
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01-SEP-2011 06:09:00	13MuGem	151	49703
01-SEP-2011 06:10:47	24GamGem	44	49703
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01-SEP-2011 06:20:31	9AlpCMa	1	49703
01-SEP-2011 06:24:47	11AlpLep	101	49703
01-SEP-2011 06:27:49	DSA1062	0	49703
01-SEP-2011 06:41:33	AlpEri	9	49704

01-SEP-2011 06:47:29	AlpPhe	84	49704
01-SEP-2011 06:53:30	24AlpPsA	18	49704
01-SEP-2011 07:02:49	34AlpAqr	162	49704
01-SEP-2011 07:05:48	8EpsPeg	61	49704
01-SEP-2011 07:08:32	54AlpPeg	90	49704
01-SEP-2011 07:12:44	44EtaPeg	164	49704
01-SEP-2011 07:23:20	11BetCas	74	49704
01-SEP-2011 07:25:26	27GamCas	76	49704
01-SEP-2011 07:41:09	34BetAur	42	49704
01-SEP-2011 07:44:01	37TheAur	107	49704
01-SEP-2011 07:46:21	78BetGem	17	49704
01-SEP-2011 07:49:14	13MuGem	151	49704
01-SEP-2011 07:51:01	24GamGem	44	49704
01-SEP-2011 07:55:43	58AlpOri	14	49704
01-SEP-2011 08:00:46	9AlpCMa	1	49704
01-SEP-2011 08:05:02	11AlpLep	101	49704
01-SEP-2011 08:08:04	DSA1062	0	49704
01-SEP-2011 08:21:48	AlpEri	9	49705
01-SEP-2011 08:27:43	AlpPhe	84	49705
01-SEP-2011 08:33:44	24AlpPsA	18	49705
01-SEP-2011 08:43:03	34AlpAqr	162	49705
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01-SEP-2011 09:03:33	11BetCas	74	49705
01-SEP-2011 09:05:39	27GamCas	76	49705
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01-SEP-2011 10:26:16	8EpsPeg	61	49706
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01-SEP-2011 10:45:52	27GamCas	76	49706
01-SEP-2011 11:01:37	34BetAur	42	49706
01-SEP-2011 11:04:29	37TheAur	107	49706
01-SEP-2011 11:06:50	78BetGem	17	49706
01-SEP-2011 11:09:43	13MuGem	151	49706
01-SEP-2011 11:11:30	24GamGem	44	49706
01-SEP-2011 11:16:12	58AlpOri	14	49706
01-SEP-2011 11:21:15	9AlpCMa	1	49706
01-SEP-2011 11:25:32	11AlpLep	101	49706
01-SEP-2011 11:28:34	DSA1062	0	49706
01-SEP-2011 11:42:17	AlpEri	9	49707
01-SEP-2011 11:48:12	AlpPhe	84	49707
01-SEP-2011 11:54:13	24AlpPsA	18	49707
01-SEP-2011 12:03:31	34AlpAqr	162	49707
01-SEP-2011 12:06:30	8EpsPeg	61	49707
01-SEP-2011 12:09:13	54AlpPeg	90	49707

01-SEP-2011 12:13:24	44EtaPeg	164	49707
01-SEP-2011 12:24:00	11BetCas	74	49707
01-SEP-2011 12:26:06	27GamCas	76	49707
01-SEP-2011 12:41:50	34BetAur	42	49707
01-SEP-2011 12:44:42	37TheAur	107	49707
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01-SEP-2011 12:49:57	13MuGem	151	49707
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01-SEP-2011 12:56:27	58AlpOri	14	49707
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01-SEP-2011 13:05:48	11AlpLep	101	49707
01-SEP-2011 13:08:50	DSA1062	0	49707
01-SEP-2011 13:34:27	24AlpPsA	18	49708
01-SEP-2011 13:43:45	34AlpAqr	162	49708
01-SEP-2011 13:46:43	8EpsPeg	61	49708
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01-SEP-2011 14:27:18	78BetGem	17	49708
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01-SEP-2011 14:31:58	24GamGem	44	49708
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01-SEP-2011 15:33:51	44EtaPeg	164	49709
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01-SEP-2011 16:07:32	78BetGem	17	49709
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01-SEP-2011 16:12:13	24GamGem	44	49709
01-SEP-2011 16:16:57	58AlpOri	14	49709
01-SEP-2011 16:21:59	9AlpCMa	1	49709
01-SEP-2011 16:26:18	11AlpLep	101	49709
01-SEP-2011 16:29:20	DSA1062	0	49709
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01-SEP-2011 16:54:55	24AlpPsA	18	49710
01-SEP-2011 17:09:53	54AlpPeg	90	49710
01-SEP-2011 17:14:05	44EtaPeg	164	49710
01-SEP-2011 17:24:40	11BetCas	74	49710
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01-SEP-2011 17:42:32	34BetAur	42	49710
01-SEP-2011 17:45:24	37TheAur	107	49710
01-SEP-2011 17:47:46	78BetGem	17	49710
01-SEP-2011 17:50:40	13MuGem	151	49710
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01-SEP-2011 18:02:14	9AlpCMa	1	49710
01-SEP-2011 18:06:33	11AlpLep	101	49710
01-SEP-2011 18:09:35	DSA1062	0	49710
01-SEP-2011 18:23:15	AlpEri	9	49711
01-SEP-2011 18:35:10	24AlpPsA	18	49711
01-SEP-2011 18:50:07	54AlpPeg	90	49711

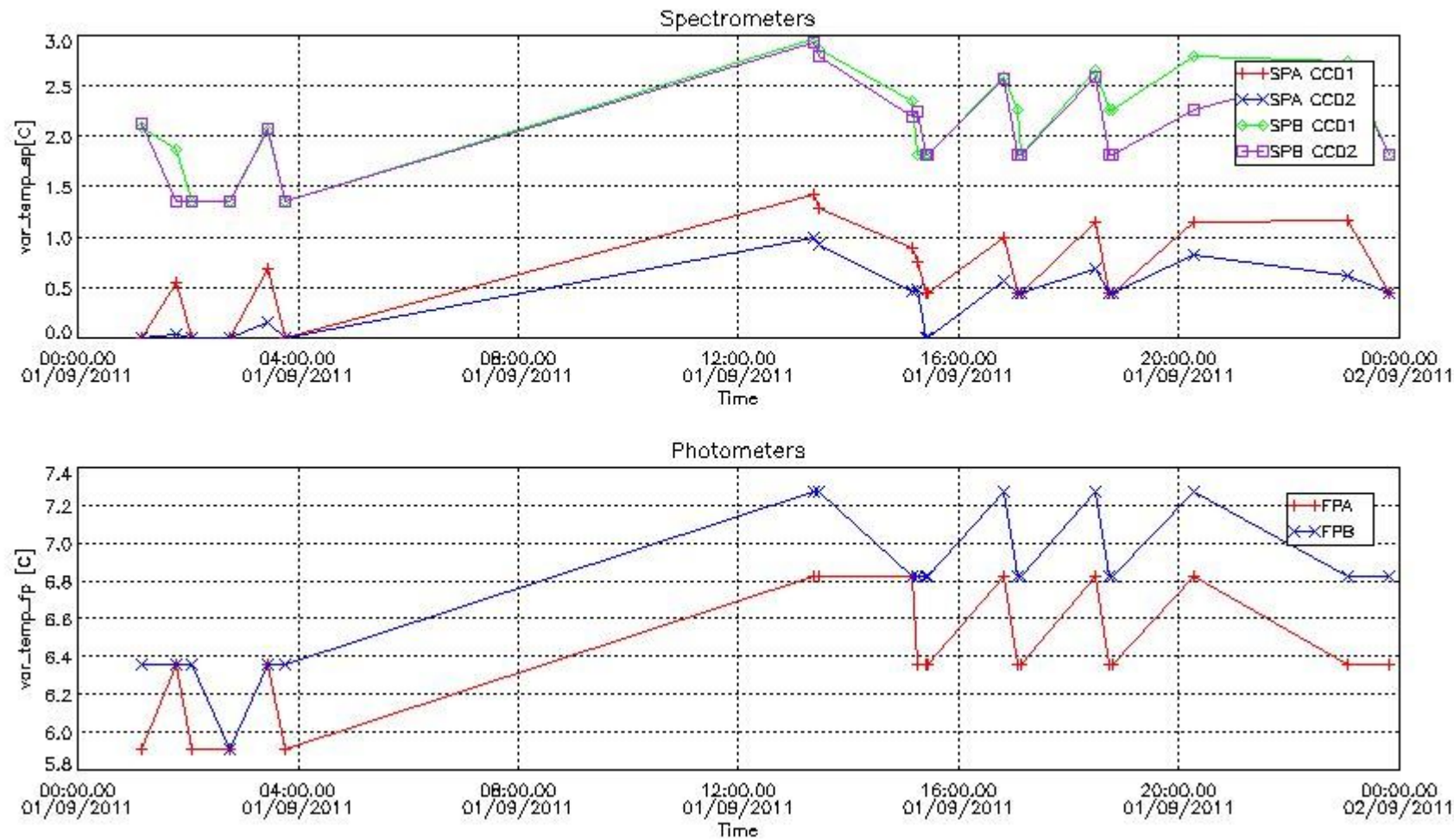
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01-SEP-2011 19:04:53	11BetCas	74	49711
01-SEP-2011 19:06:59	27GamCas	76	49711
01-SEP-2011 19:22:46	34BetAur	42	49711
01-SEP-2011 19:25:38	37TheAur	107	49711
01-SEP-2011 19:28:00	78BetGem	17	49711
01-SEP-2011 19:30:54	13MuGem	151	49711
01-SEP-2011 19:32:41	24GamGem	44	49711
01-SEP-2011 19:42:28	9AlpCMa	1	49711
01-SEP-2011 19:46:49	11AlpLep	101	49711
01-SEP-2011 19:49:50	DSA1062	0	49711
01-SEP-2011 20:03:30	AlpEri	9	49712
01-SEP-2011 20:09:25	AlpPhe	84	49712
01-SEP-2011 20:24:40	34AlpAqr	162	49712
01-SEP-2011 20:27:39	8EpsPeg	61	49712
01-SEP-2011 20:30:20	54AlpPeg	90	49712
01-SEP-2011 20:34:32	44EtaPeg	164	49712
01-SEP-2011 20:45:07	11BetCas	74	49712
01-SEP-2011 20:47:12	27GamCas	76	49712
01-SEP-2011 21:03:00	34BetAur	42	49712
01-SEP-2011 21:05:52	37TheAur	107	49712
01-SEP-2011 21:08:14	78BetGem	17	49712
01-SEP-2011 21:11:08	13MuGem	151	49712
01-SEP-2011 21:12:56	24GamGem	44	49712
01-SEP-2011 21:27:04	11AlpLep	101	49712
01-SEP-2011 21:30:05	DSA1062	0	49712
01-SEP-2011 21:43:44	AlpEri	9	49713
01-SEP-2011 22:07:53	8EpsPeg	61	49713
01-SEP-2011 22:10:34	54AlpPeg	90	49713
01-SEP-2011 22:14:45	44EtaPeg	164	49713
01-SEP-2011 22:25:20	11BetCas	74	49713
01-SEP-2011 22:27:25	27GamCas	76	49713
01-SEP-2011 22:43:13	34BetAur	42	49713
01-SEP-2011 22:46:06	37TheAur	107	49713
01-SEP-2011 22:48:28	78BetGem	17	49713
01-SEP-2011 22:51:23	13MuGem	151	49713
01-SEP-2011 22:53:10	24GamGem	44	49713
01-SEP-2011 23:02:57	9AlpCMa	1	49713
01-SEP-2011 23:07:19	11AlpLep	101	49713
01-SEP-2011 23:10:21	DSA1062	0	49713
01-SEP-2011 23:23:59	AlpEri	9	49714
01-SEP-2011 23:29:54	AlpPhe	84	49714
01-SEP-2011 23:35:52	24AlpPsA	18	49714
01-SEP-2011 23:45:08	34AlpAqr	162	49714
01-SEP-2011 23:50:47	54AlpPeg	90	49714
01-SEP-2011 23:54:59	44EtaPeg	164	49714

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_1PNPDE20110901_010959_000000523106_00117_49700_1258.N1	01-SEP-2011 01:09:59	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	49700	No
2	GOM_TRA_1PNPDE20110901_014641_000000473106_00118_49701_1278.N1	01-SEP-2011 01:46:41	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	49701	No
3	GOM_TRA_1PNPDE20110901_020502_000000383106_00118_49701_1279.N1	01-SEP-2011 02:05:02	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	49701	No
4	GOM_TRA_1PNPDE20110901_024535_000000373106_00118_49701_1280.N1	01-SEP-2011 02:45:35	Bright	36.500	17	78Bet Gem	1.1610	4500.0	73	49701	No
5	GOM_TRA_1PNPDE20110901_032656_000000473106_00119_49702_1281.N1	01-SEP-2011 03:26:56	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49702	No
6	GOM_TRA_1PNPDE20110901_034516_000000393106_00119_49702_1282.N1	01-SEP-2011 03:45:16	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	49702	No
7	GOM_TRA_1PNPDK20110901_132227_000000433106_00125_49708_8889.N1	01-SEP-2011 13:22:27	Dark	42.500	9	Alp Eri	0.45300	24000.	85	49708	No
8	GOM_TRA_1PNPDK20110901_132823_000000493106_00125_49708_8890.N1	01-SEP-2011 13:28:23	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49708	No

9	GOM_TRA_1PNPDK20110901_150838_000000473106_00126_49709_8958.N1	01-SEP-2011 15:08:38	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49709	No
10	GOM_TRA_1PNPDK20110901_151437_000000483106_00126_49709_8988.N1	01-SEP-2011 15:14:37	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	49709	No
11	GOM_TRA_1PNPDK20110901_152355_000000413106_00126_49709_8989.N1	01-SEP-2011 15:23:55	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	49709	No
12	GOM_TRA_1PNPDK20110901_152653_000000403106_00126_49709_8990.N1	01-SEP-2011 15:26:53	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	49709	No
13	GOM_TRA_1PNPDK20110901_164852_000000483106_00127_49710_8991.N1	01-SEP-2011 16:48:52	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	49710	No
14	GOM_TRA_1PNPDK20110901_170409_000000403106_00127_49710_9018.N1	01-SEP-2011 17:04:09	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	49710	No
15	GOM_TRA_1PNPDK20110901_170708_000000383106_00127_49710_9019.N1	01-SEP-2011 17:07:08	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	49710	No
16	GOM_TRA_1PNPDK20110901_182907_000000513106_00128_49711_9020.N1	01-SEP-2011 18:29:07	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	49711	No
17	GOM_TRA_1PNPDK20110901_184423_000000403106_00128_49711_9056.N1	01-SEP-2011 18:44:23	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	49711	No
18	GOM_TRA_1PNPDK20110901_184722_000000383106_00128_49711_9057.N1	01-SEP-2011 18:47:22	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	49711	No
19	GOM_TRA_1PNPDE20110901_201520_000000473106_00129_49712_1627.N1	01-SEP-2011 20:15:20	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	49712	No
20	GOM_TRA_1PNPDE20110901_230413_000000493106_00130_49713_1680.N1	01-SEP-2011 23:04:13	Dark	49.000	47	2Bet CMa	1.9760	28000.	98	49713	No
21	GOM_TRA_1PNPDE20110901_234803_000000383106_00131_49714_1681.N1	01-SEP-2011 23:48:03	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	49714	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

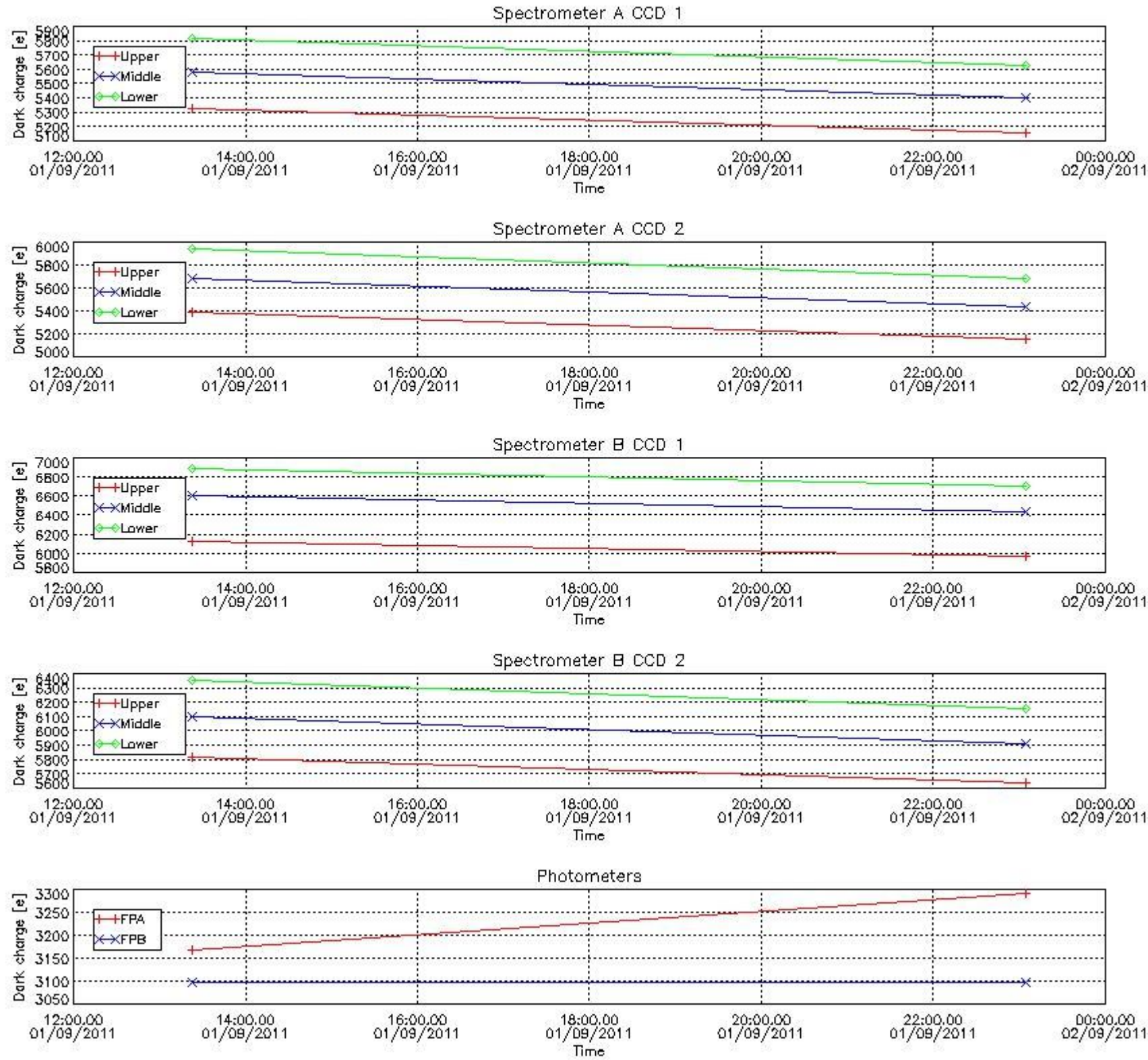
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110901_010959_000000523106_00117_49700_1258.N1	DC map used
GOM_TRA_1PNPDE20110901_014641_000000473106_00118_49701_1278.N1	DC map used
GOM_TRA_1PNPDE20110901_020502_000000383106_00118_49701_1279.N1	DC map used
GOM_TRA_1PNPDE20110901_024535_000000373106_00118_49701_1280.N1	DC map used
GOM_TRA_1PNPDE20110901_032656_000000473106_00119_49702_1281.N1	DC map used
GOM_TRA_1PNPDE20110901_034516_000000393106_00119_49702_1282.N1	DC map used
GOM_TRA_1PNPDK20110901_132227_000000433106_00125_49708_8889.N1	DC map used
GOM_TRA_1PNPDK20110901_132823_000000493106_00125_49708_8890.N1	DC map used
GOM_TRA_1PNPDK20110901_150838_000000473106_00126_49709_8958.N1	DC map used
GOM_TRA_1PNPDK20110901_151437_000000483106_00126_49709_8988.N1	DC map used
GOM_TRA_1PNPDK20110901_152355_000000413106_00126_49709_8989.N1	DC map used
GOM_TRA_1PNPDK20110901_152653_000000403106_00126_49709_8990.N1	DC map used
GOM_TRA_1PNPDK20110901_164852_000000483106_00127_49710_8991.N1	DC map used
GOM_TRA_1PNPDK20110901_170409_000000403106_00127_49710_9018.N1	DC map used
GOM_TRA_1PNPDK20110901_170708_000000383106_00127_49710_9019.N1	DC map used
GOM_TRA_1PNPDK20110901_182907_000000513106_00128_49711_9020.N1	DC map used
GOM_TRA_1PNPDK20110901_184423_000000403106_00128_49711_9056.N1	DC map used
GOM_TRA_1PNPDK20110901_184722_000000383106_00128_49711_9057.N1	DC map used
GOM_TRA_1PNPDE20110901_201520_000000473106_00129_49712_1627.N1	DC map used
GOM_TRA_1PNPDE20110901_230413_000000493106_00130_49713_1680.N1	DC map used
GOM_TRA_1PNPDE20110901_234803_000000383106_00131_49714_1681.N1	DC map used

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



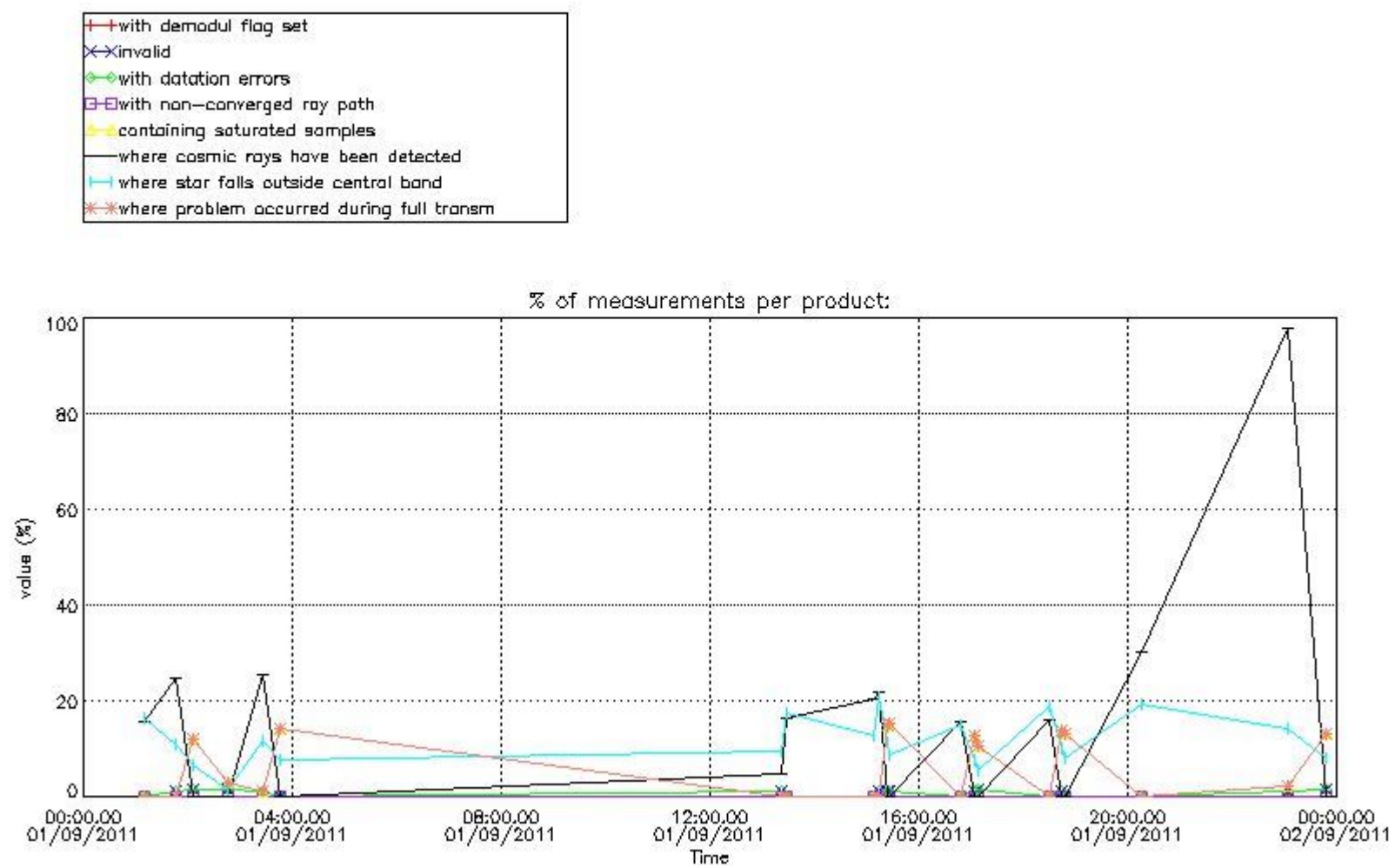
5. Demodulation flag and quality information monitoring

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.

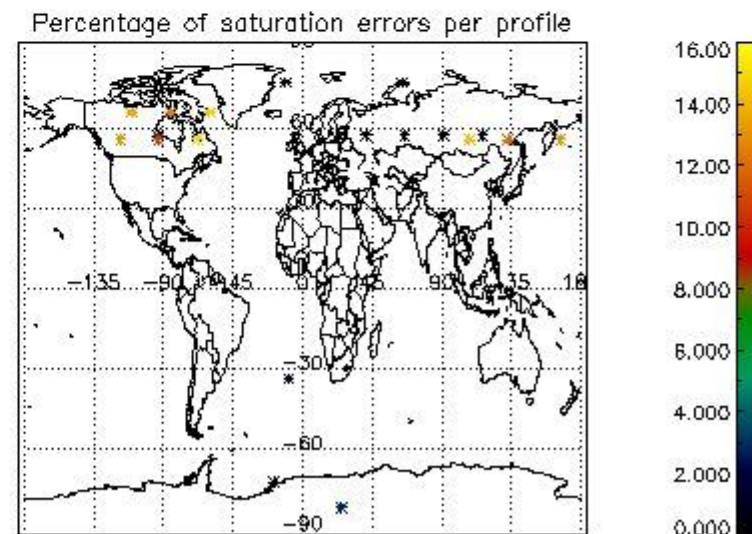
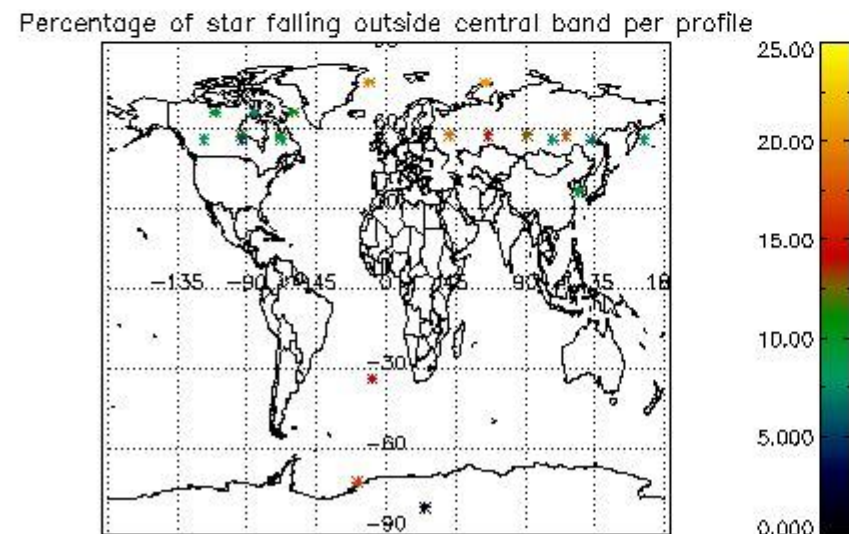
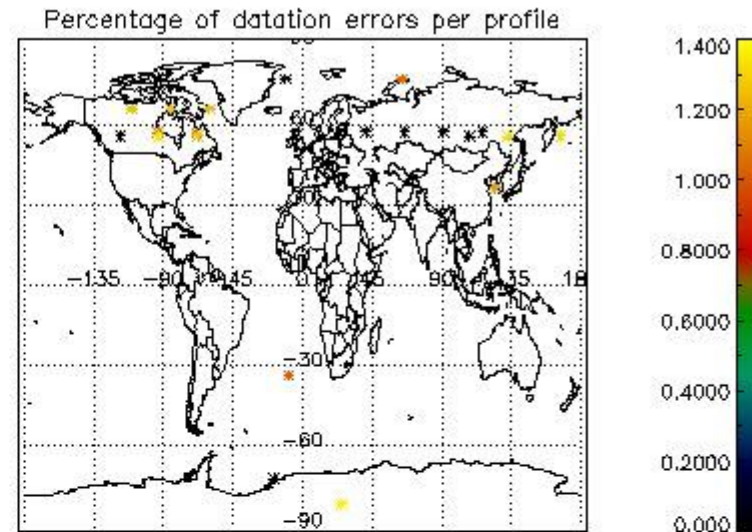
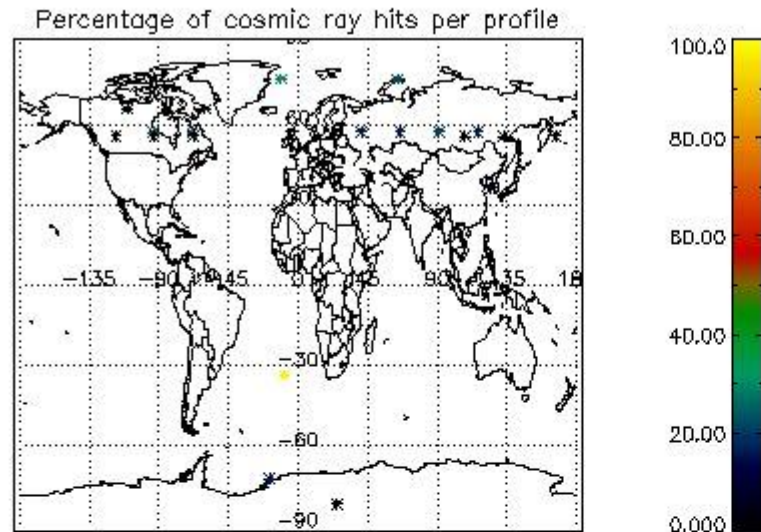
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	52.3810 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	47.6190 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



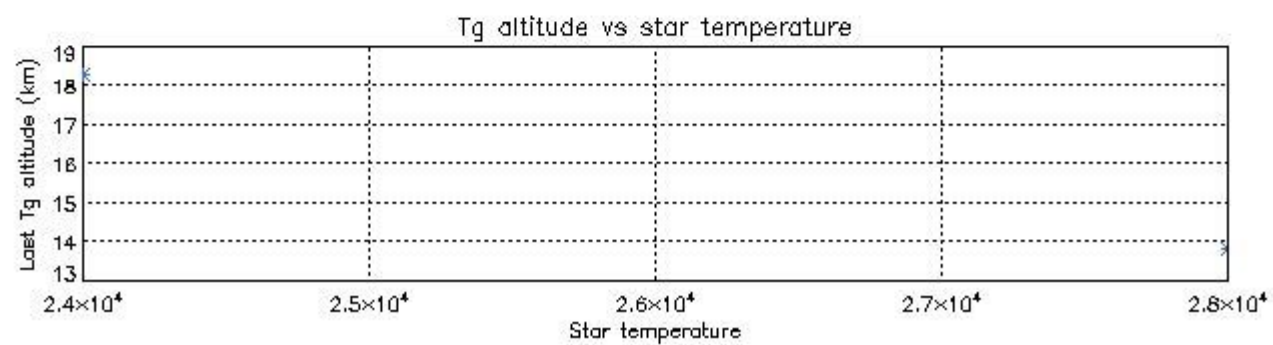
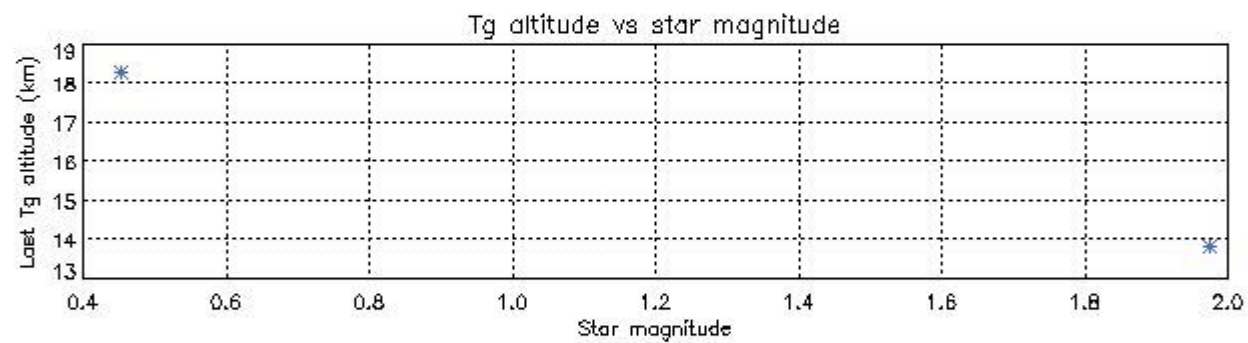
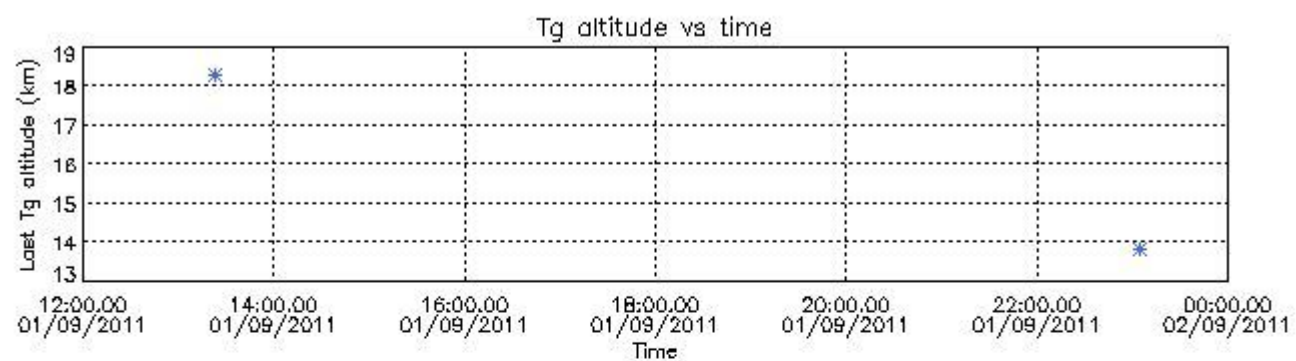
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.048	19.036	NaN
St. deviation:	3.1472	1.8215	NaN
Maximum:	18.273	23.024	NaN
Minimum:	13.822	16.863	NaN
Number of data:	2.0000	10.000	NaN

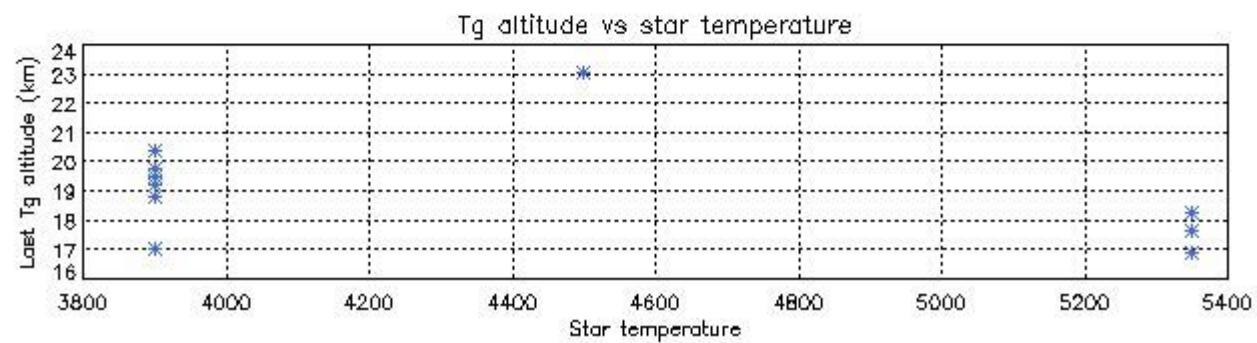
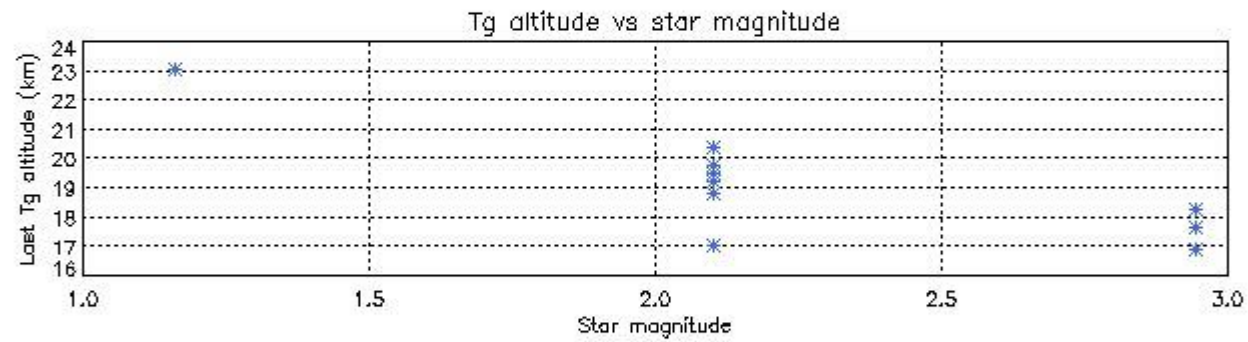
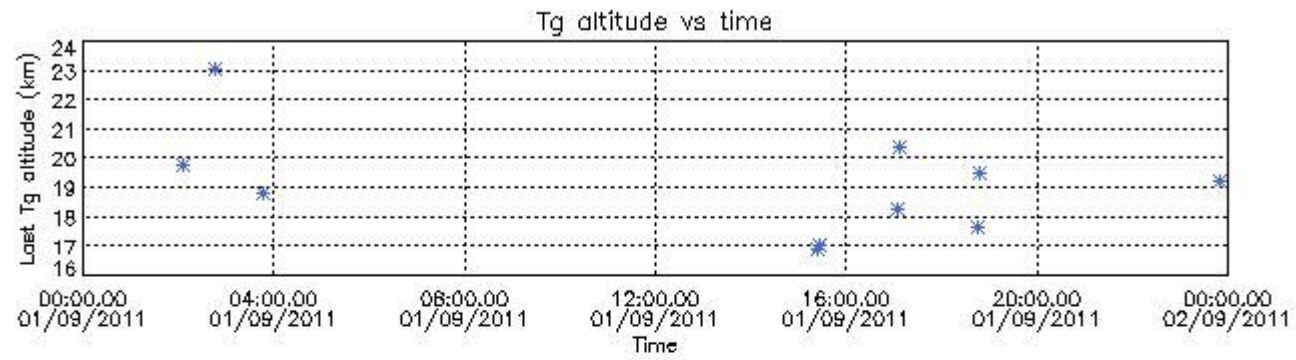
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

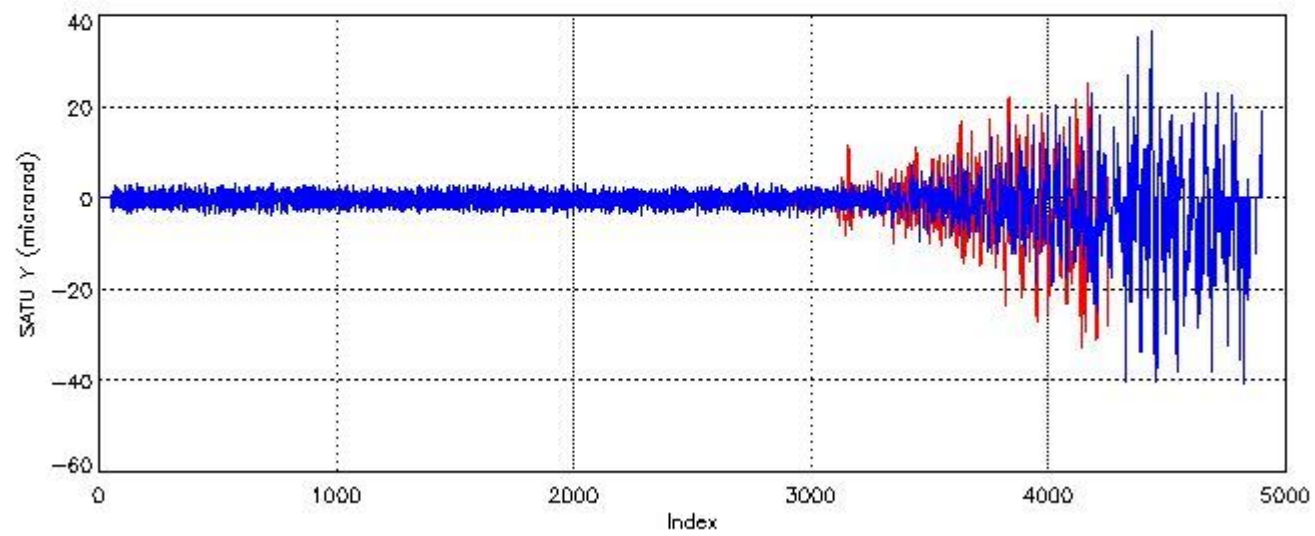
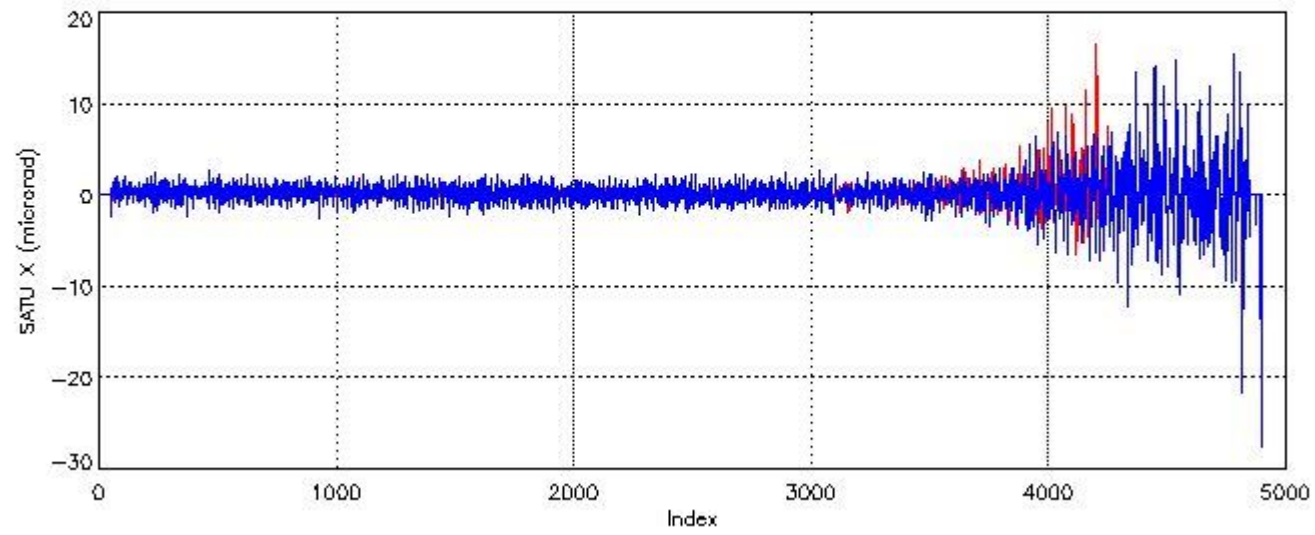


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.23943	-0.23291	0.16412	-0.21831
St. deviation:	0.48798	0.94981	0.51745	0.86590
Maximum:	2.7000	3.2000	3.5000	4.1000
Minimum:	-2.6000	-4.0000	-3.0000	-4.7000

Number of data:	2000.0	2000.0	8650.0	8650.0
90Percentile:	0.90000	1.2000	0.80000	0.90000

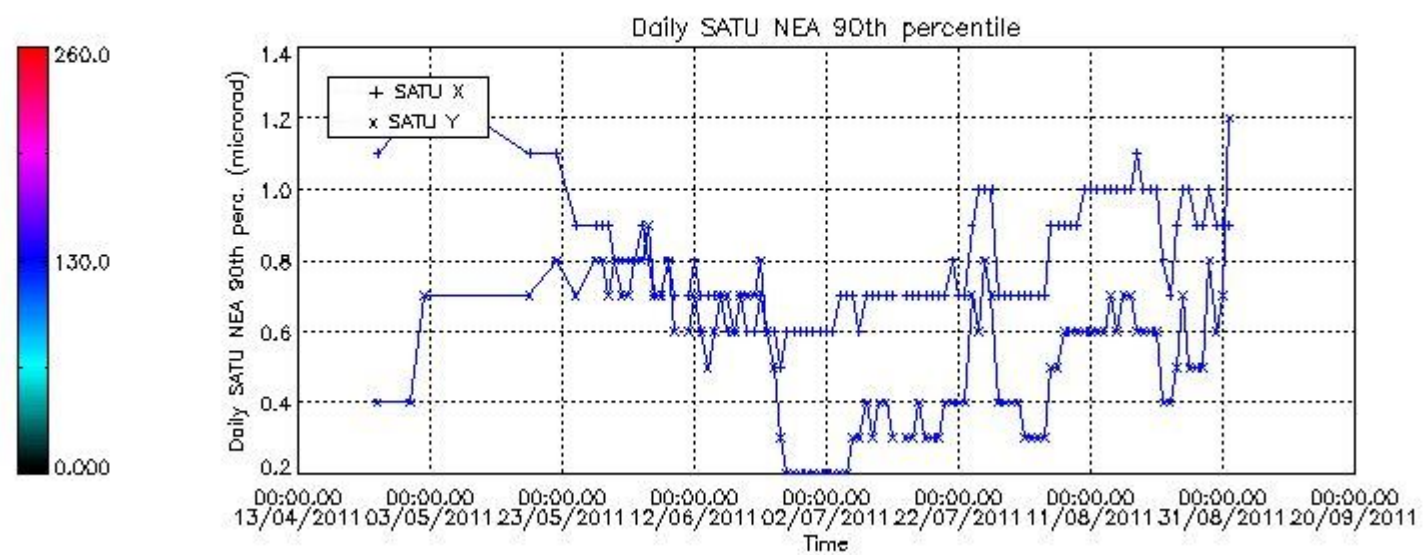
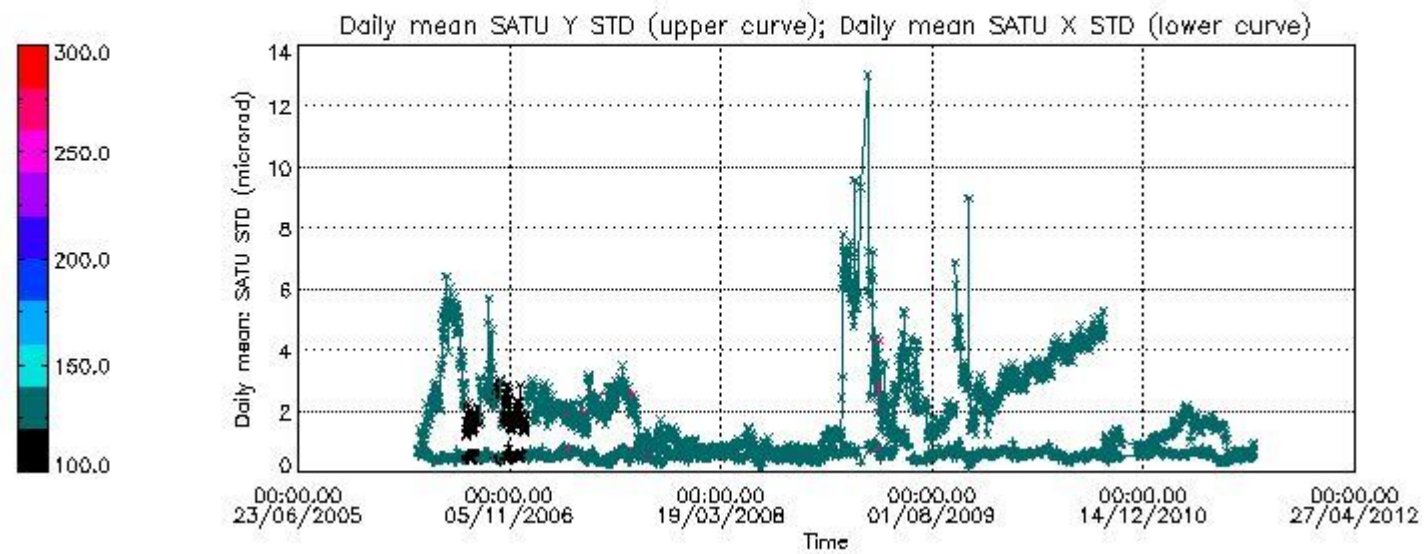
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

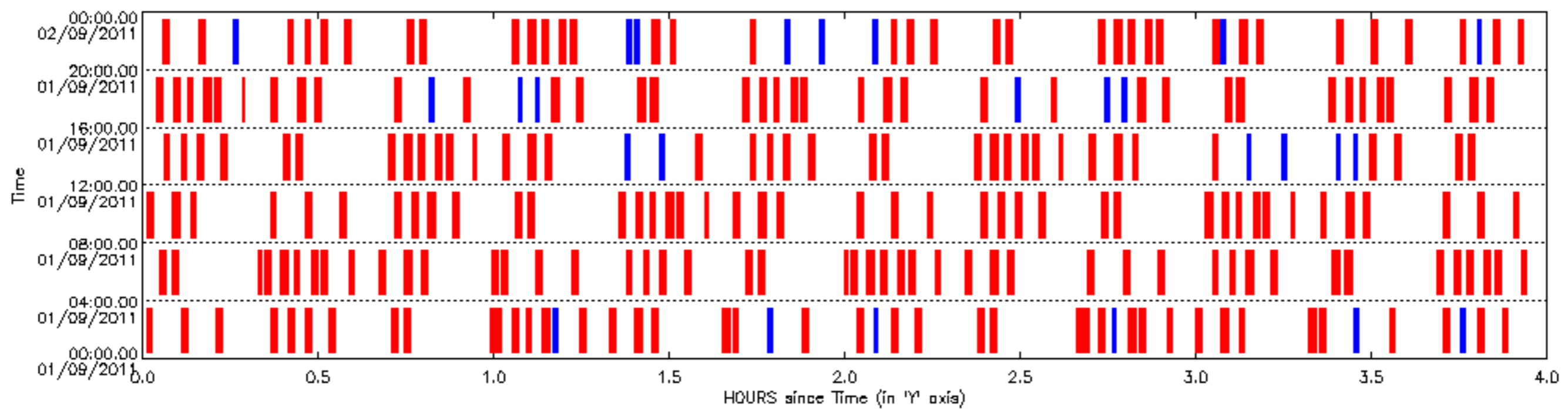
Lower curve: STD of SATU X axis

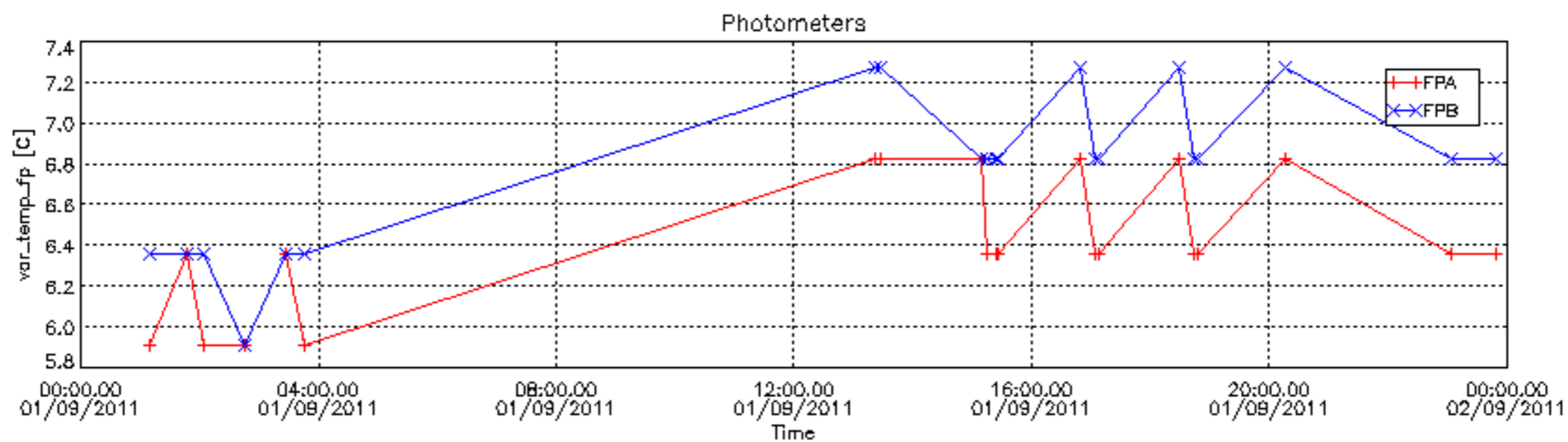
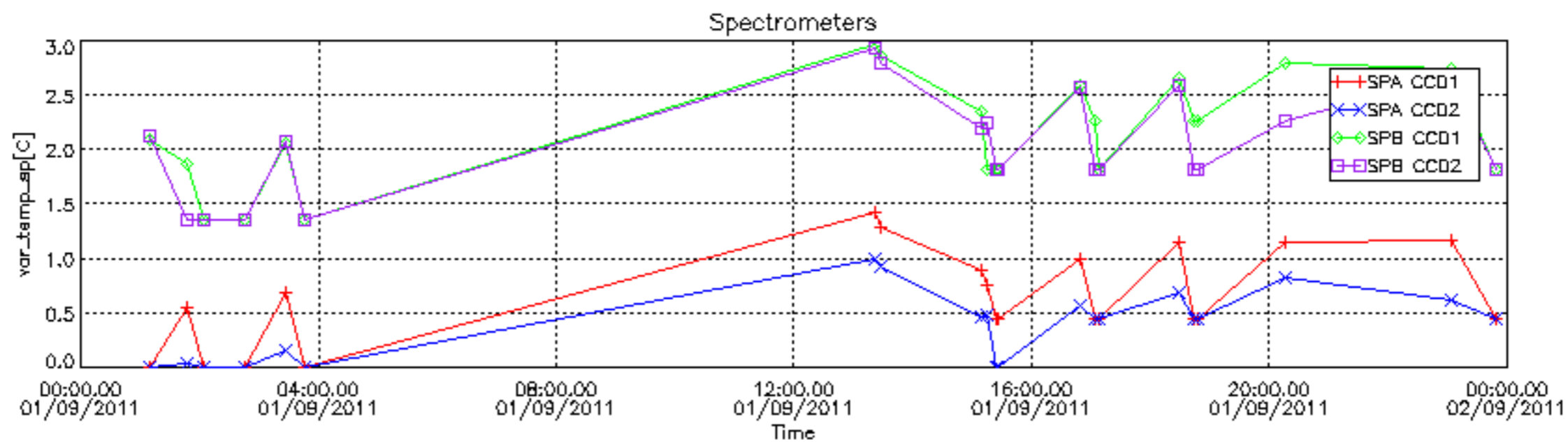


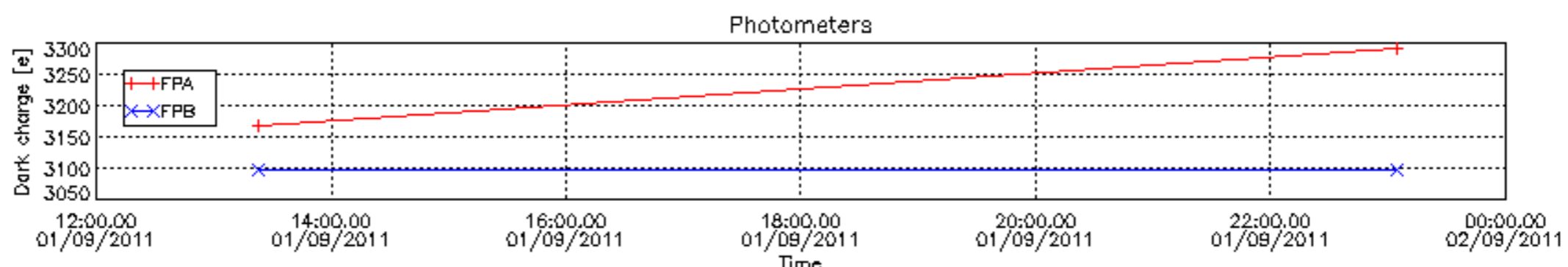
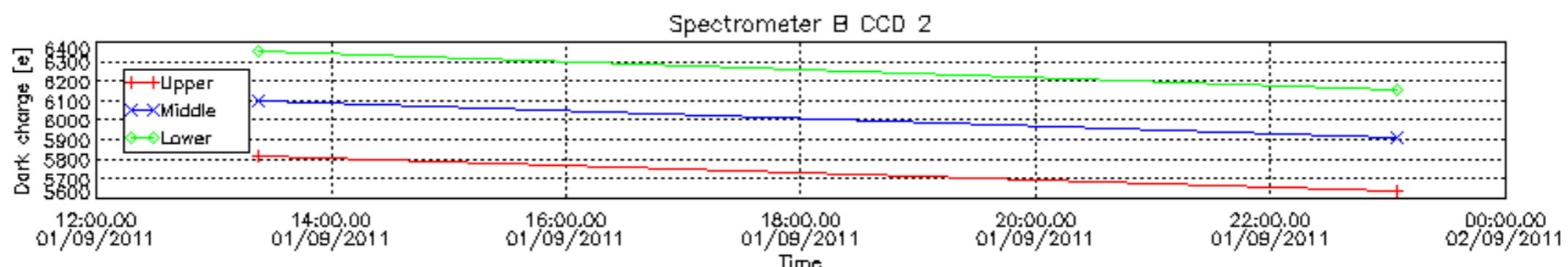
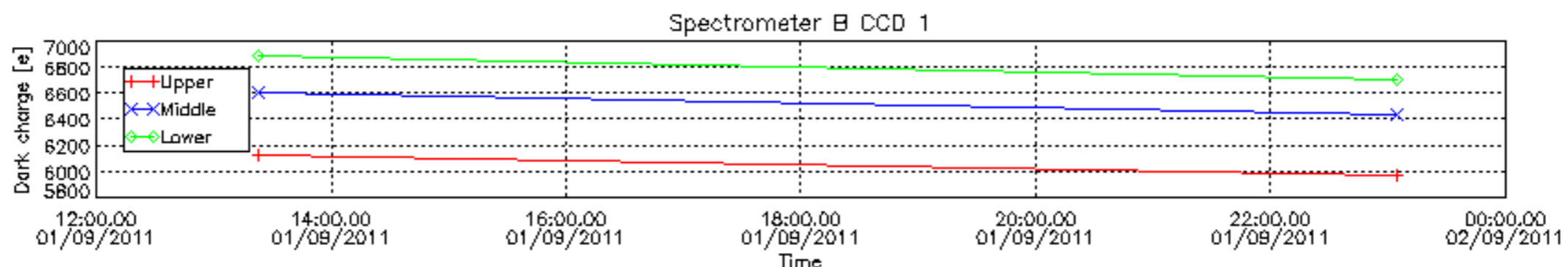
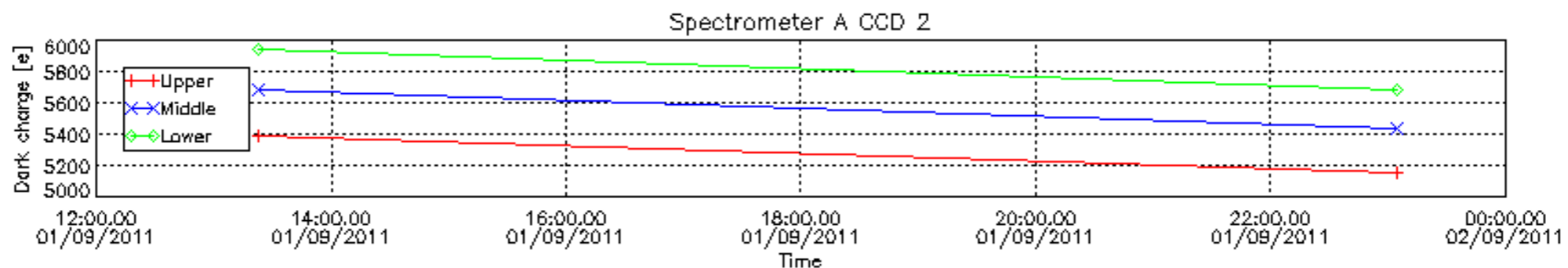
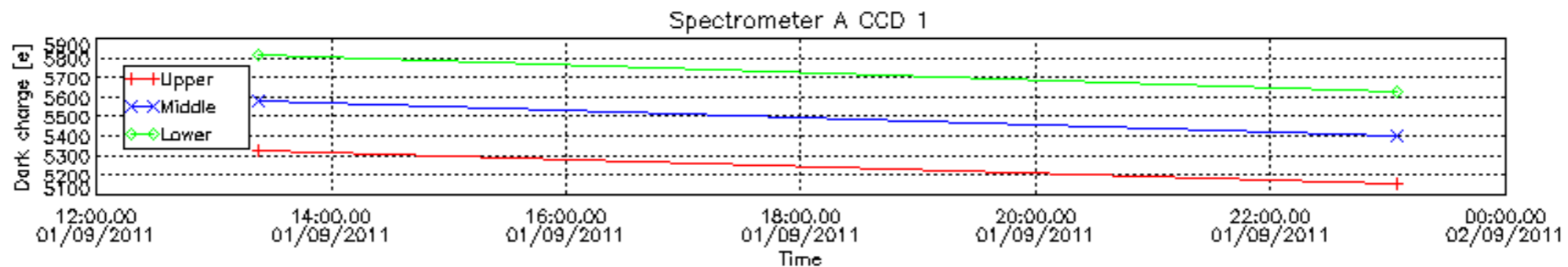
8. Auxiliary Data Files used for the production reported in section 2.4

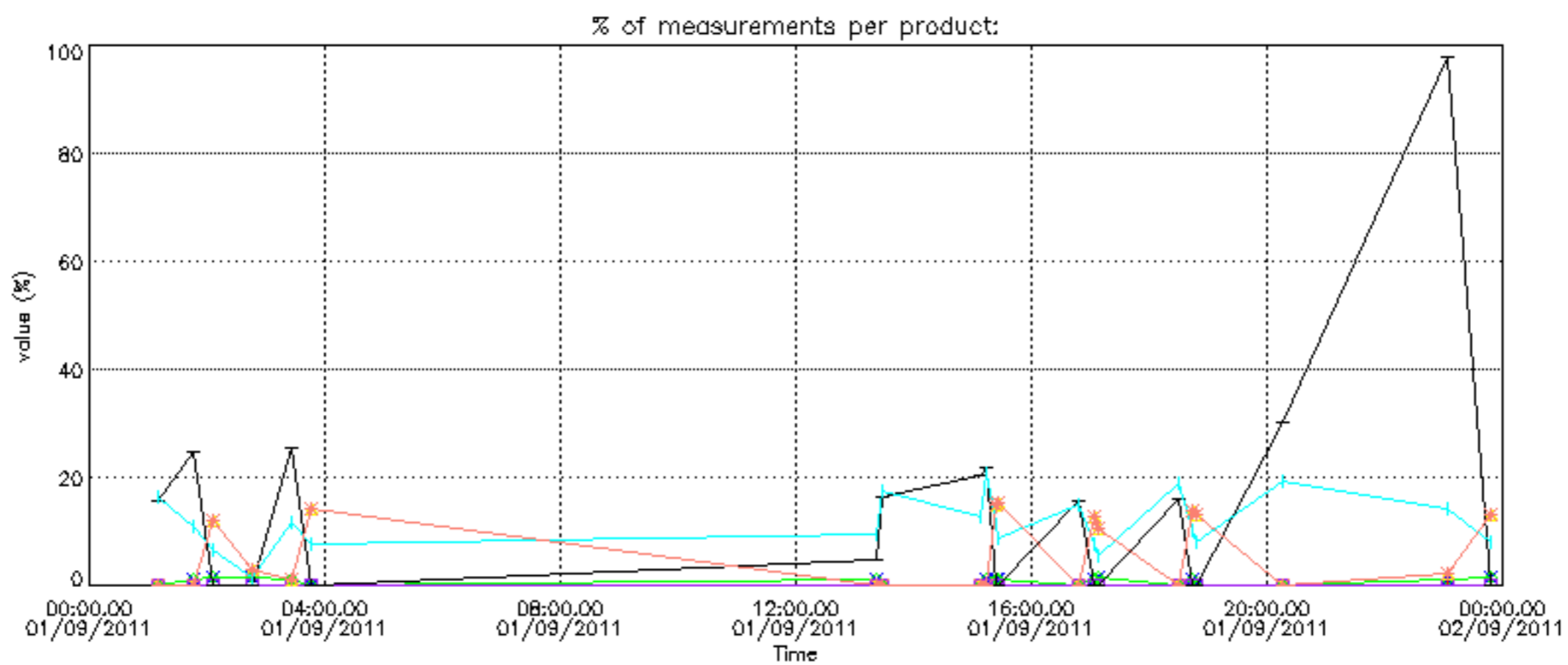
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-SEP-2011 01:09:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110831_072221_20110829_000000_20500101_000000	1	01-SEP-2011 01:09:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	01-SEP-2011 01:09:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-SEP-2011 01:09:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	01-SEP-2011 01:09:59
ECMWF_FILE	AUX_ECF_AXNECM20110831_060835_20110831_210000_20110901_090000	1	01-SEP-2011 01:09:59
ECMWF_FILE	AUX_ECF_AXNECM20110901_062113_20110901_090000_20110901_210000	7	01-SEP-2011 13:22:27
ECMWF_FILE	AUX_ECF_AXNECM20110901_062113_20110901_150000_20110902_030000	9	01-SEP-2011 15:08:38
ECMWF_FILE	AUX_ECA_AXNECM20110901_181754_20110901_090000_20110901_210000	17	01-SEP-2011 18:44:23
ECMWF_FILE	AUX_ECF_AXNECM20110901_062114_20110901_210000_20110902_090000	20	01-SEP-2011 23:04:13
OPTIONAL_ECMWF_FILE	MISSING	1	01-SEP-2011 01:09:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110831_102834_20110830_192629_20110909_214013	1	01-SEP-2011 01:09:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110901_102112_20110831_184944_20110910_210329	7	01-SEP-2011 13:22:27

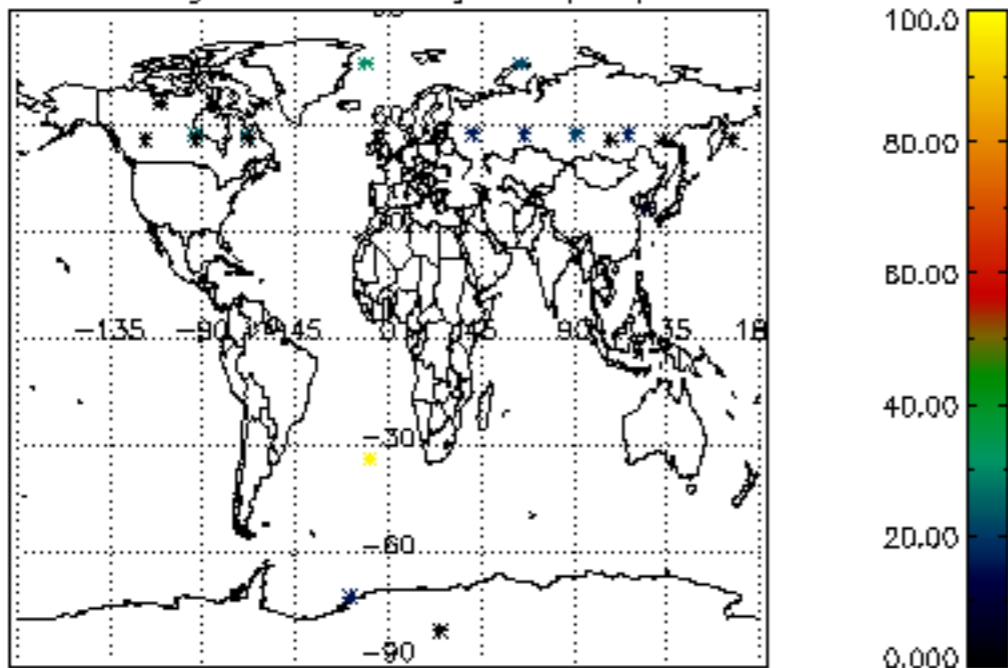




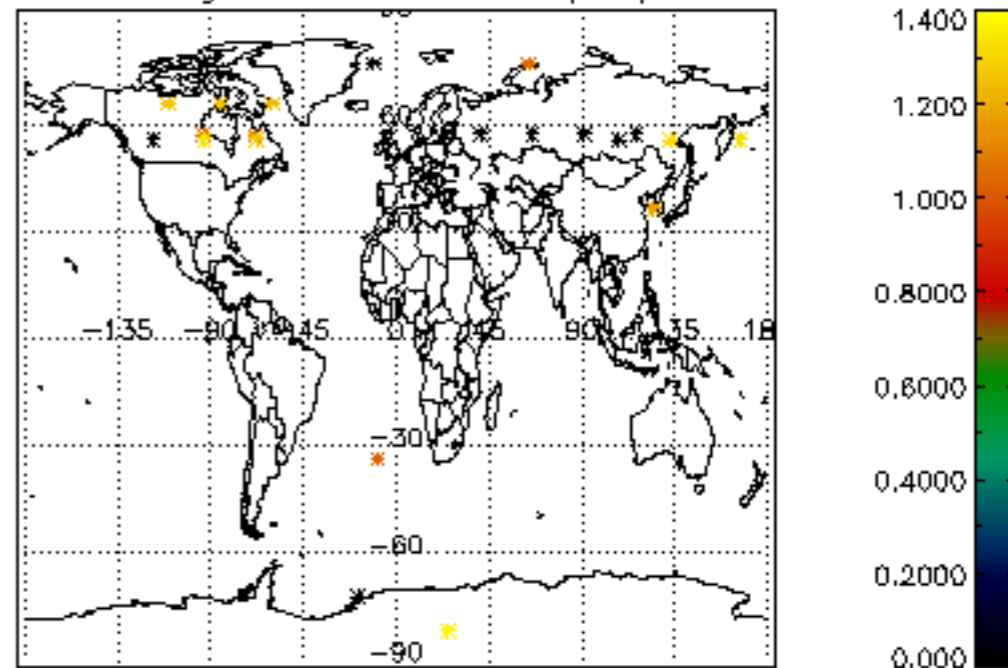




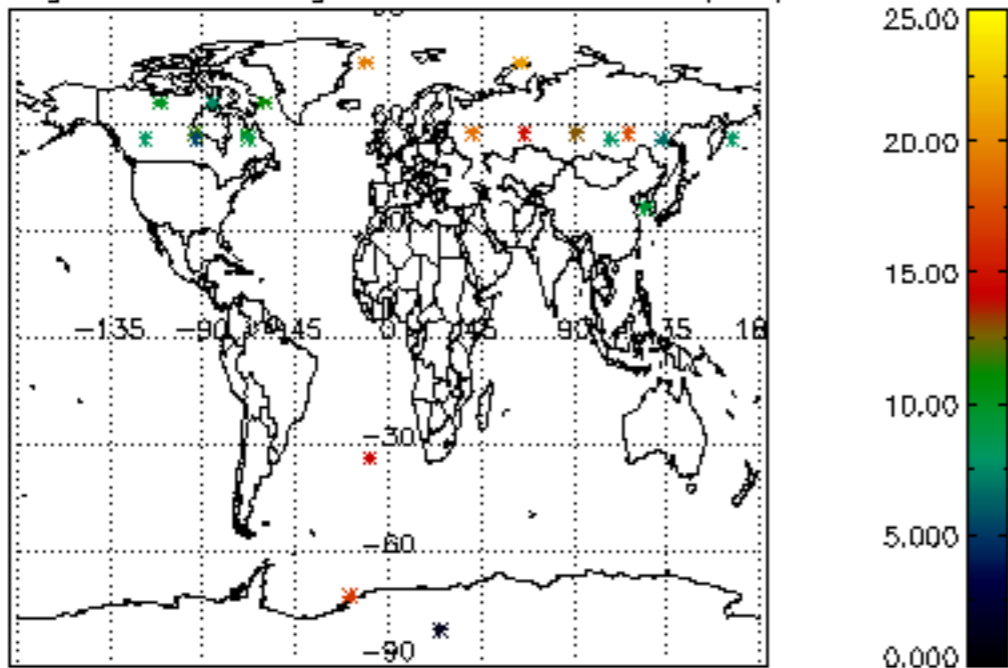
Percentage of cosmic ray hits per profile



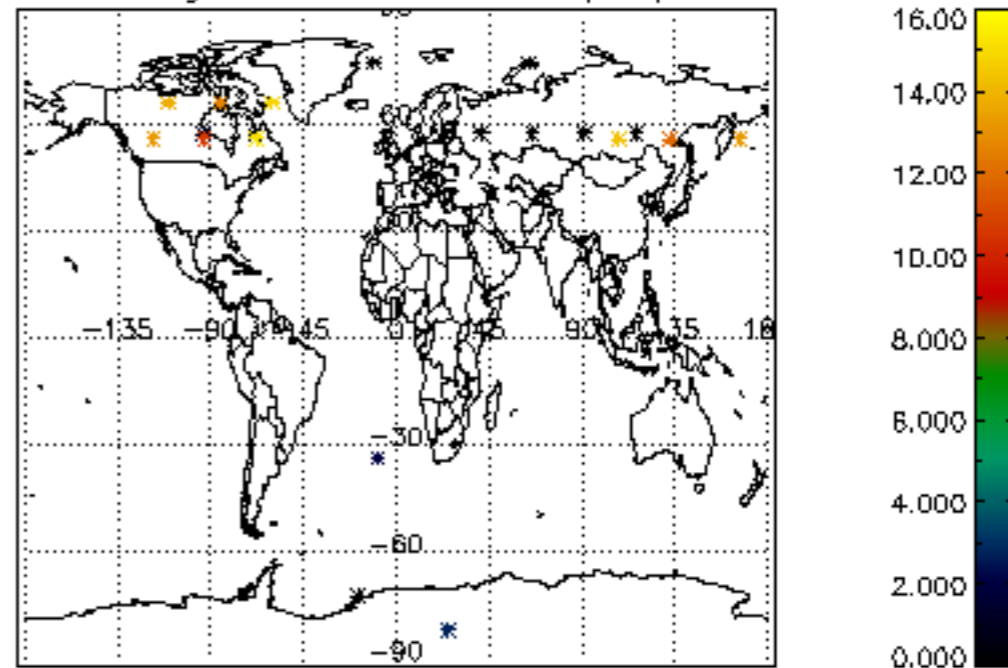
Percentage of datation errors per profile



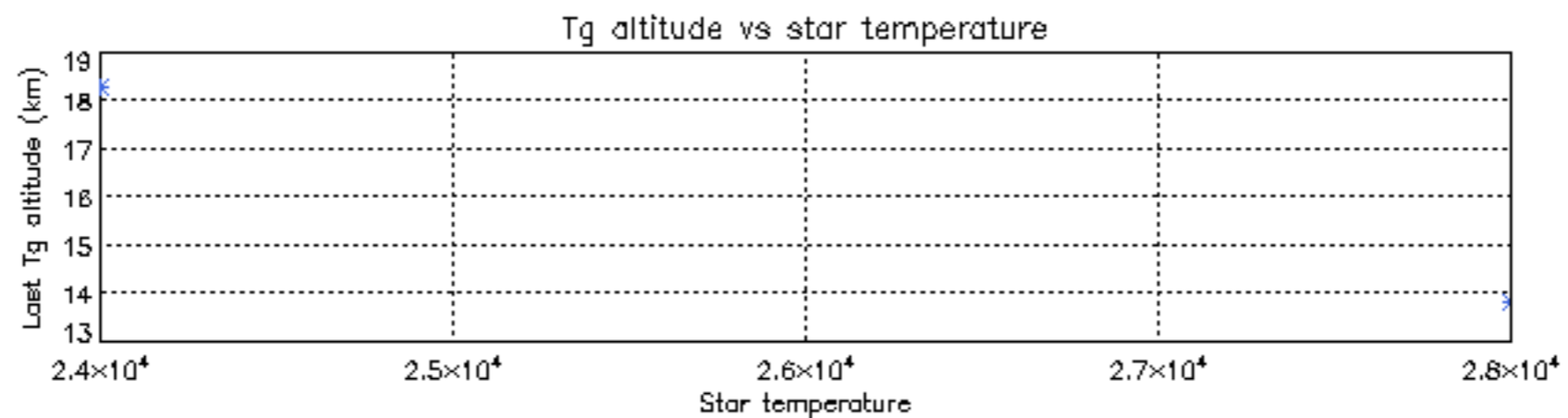
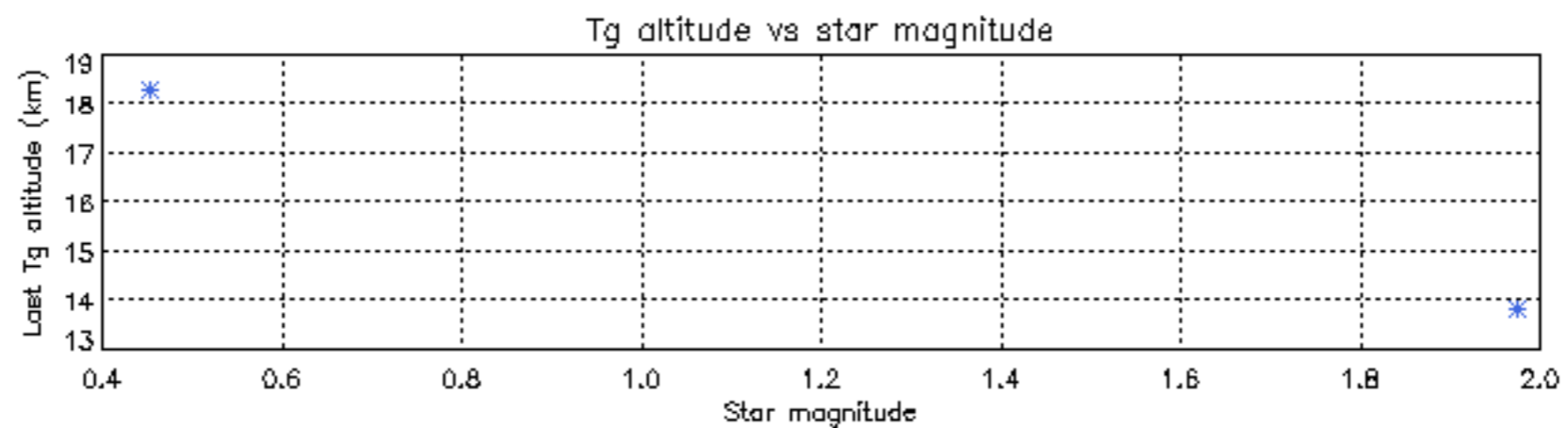
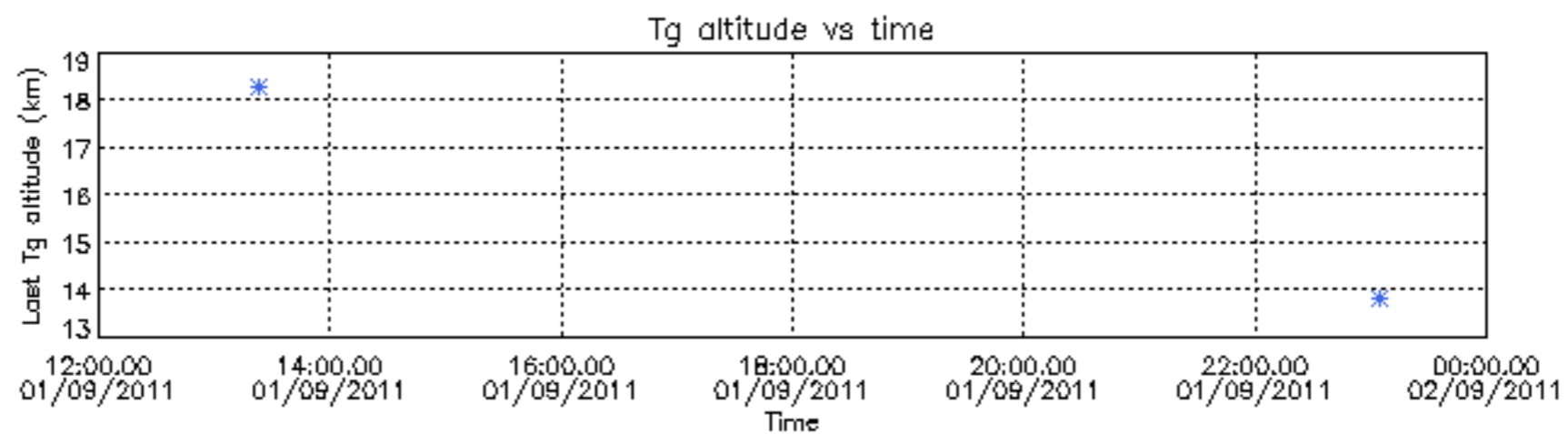
Percentage of star falling outside central band per profile



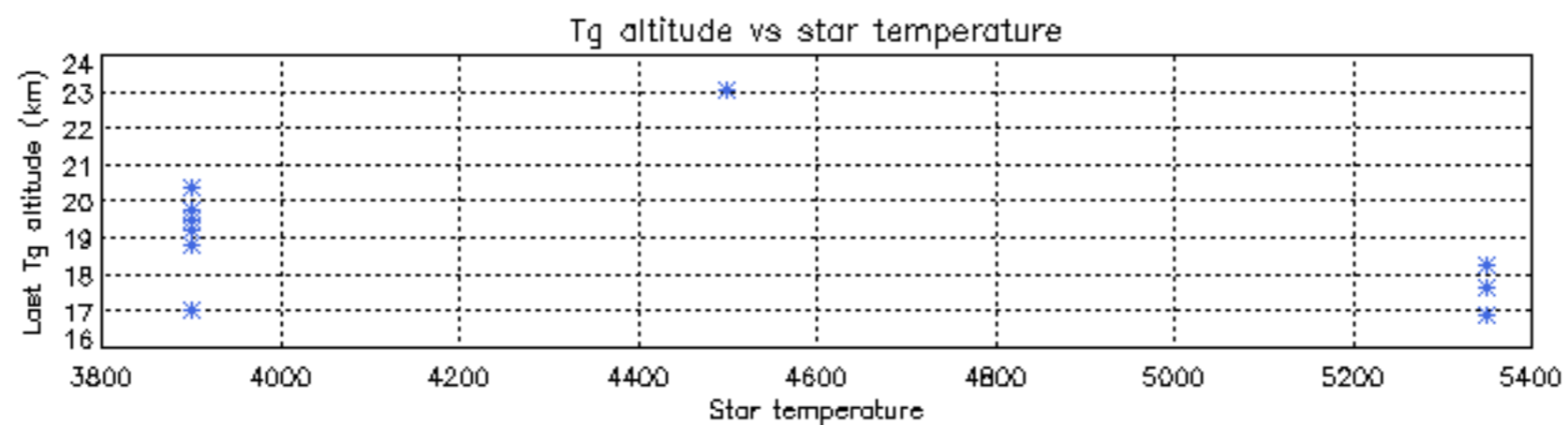
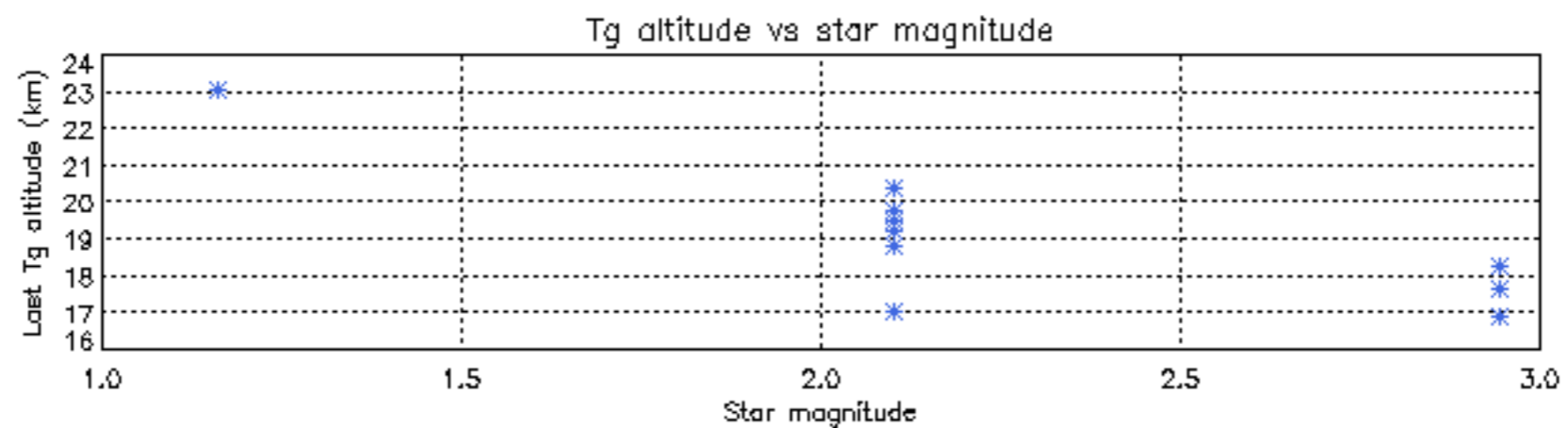
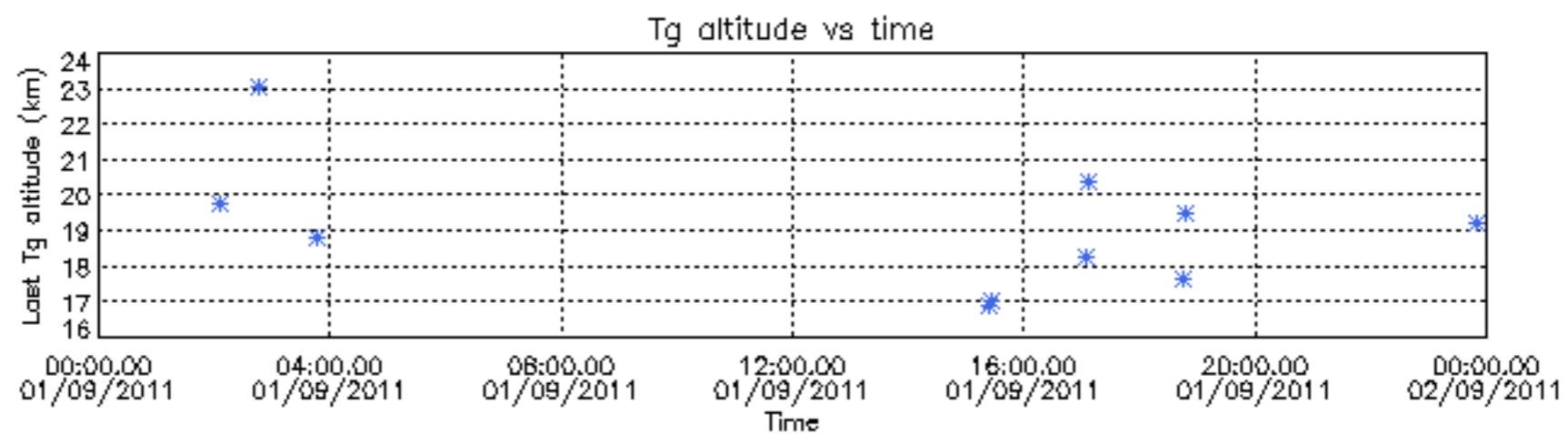
Percentage of saturation errors per profile

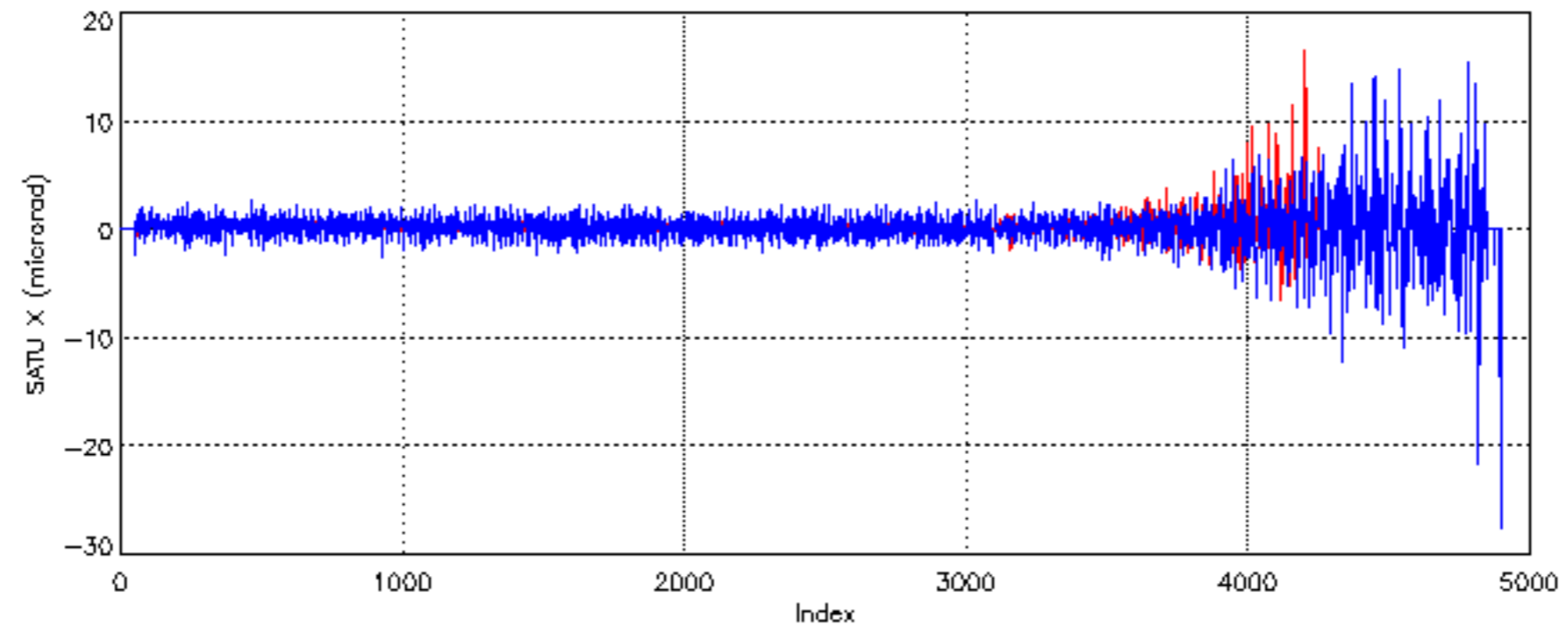


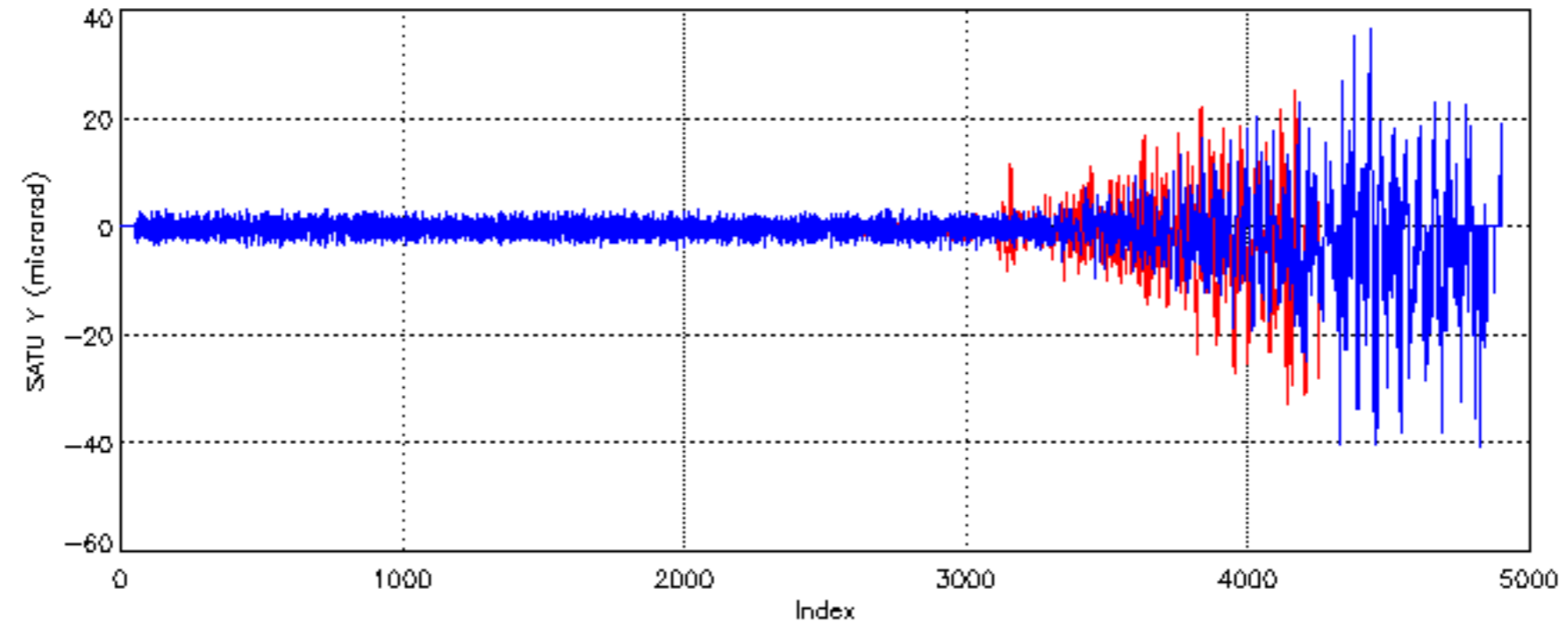
Tangent altitude at which the star is lost

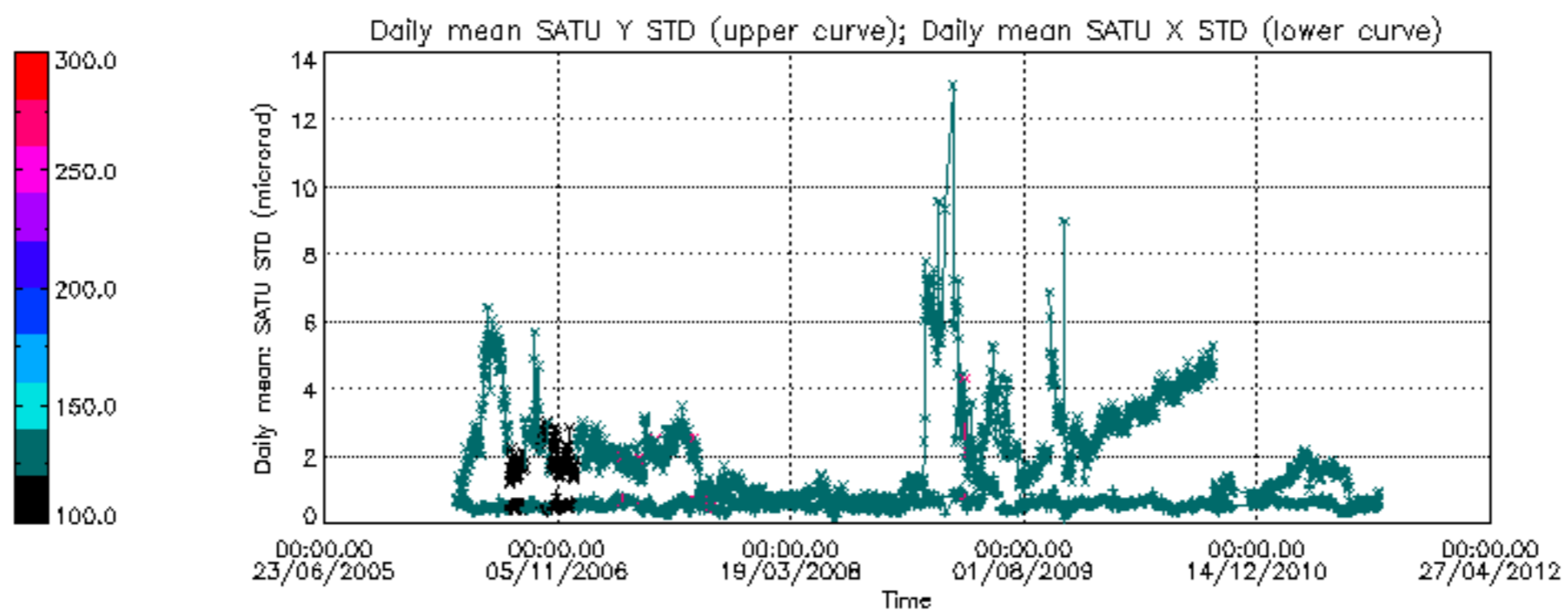


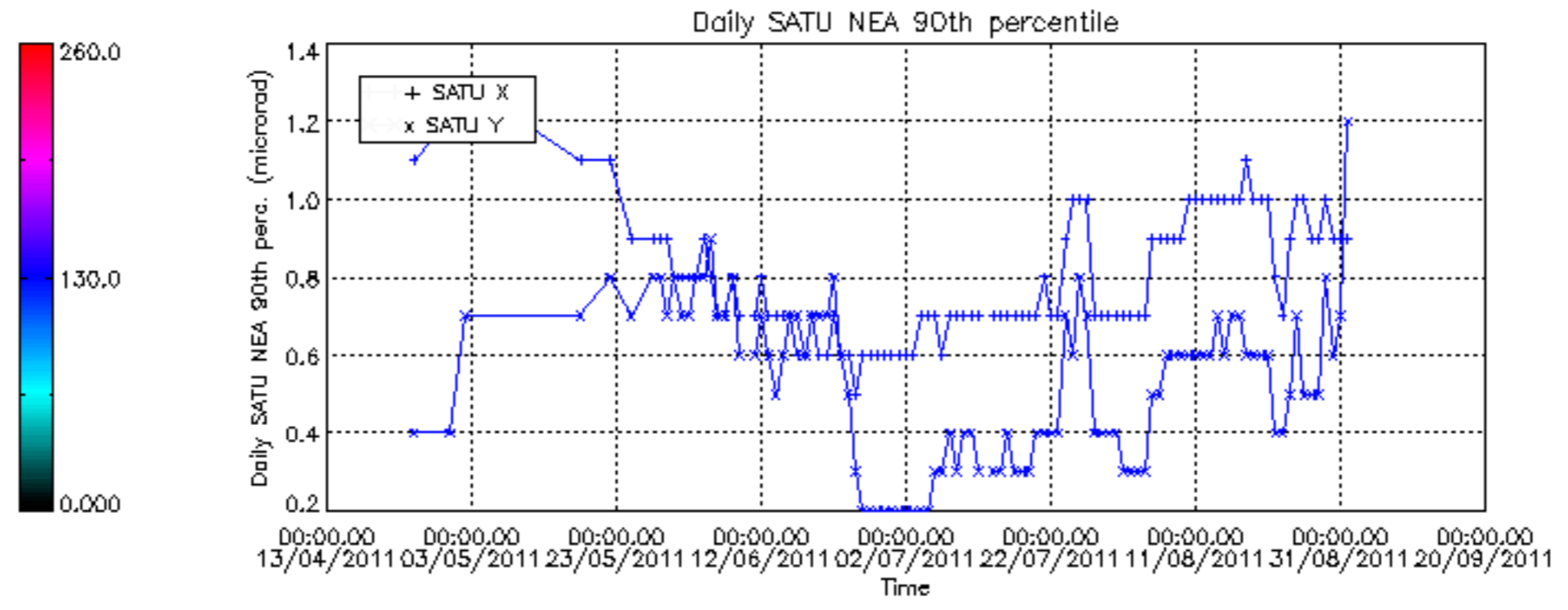
Tangent altitude at which the star is lost











/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
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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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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
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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
8; 5385.8; 03-SEP-2011 23:29:58; Dark ; 1.0; 1; 9Alp CMA ; -1.44; 11000;occ; 2; 0;49742
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3; 1334.6; 04-SEP-2011 00:02:41; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49743
4; 3091.0; 04-SEP-2011 00:31:57; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;49743
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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2; 981.0; 03-SEP-2011 12:15:10; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;49736
3; 1332.9; 03-SEP-2011 12:21:01; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;49736
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2; 2464.7; 03-SEP-2011 12:39:53; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;49736
3; 4907.9; 03-SEP-2011 13:20:36; Dark ; 50.5; 8; 10Alp CMi ; 0.40; 6500;occ; 101; 0;49736
4; 5541.5; 03-SEP-2011 13:31:10; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;49736
5; 6995.5; 03-SEP-2011 13:55:24; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;49737
6; 7347.0; 03-SEP-2011 14:01:16; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;49737
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2; -1224.9; 03-SEP-2011 14:58:52; Dark ; 52.0; 44; 24Gam Gem ; 1.93; 11000;occ; 104; 0;49737
3; -1105.7; 03-SEP-2011 15:00:51; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;49737
4; -631.7; 03-SEP-2011 15:08:45; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;49737
5; 982.2; 03-SEP-2011 15:35:39; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;49738
6; 1333.3; 03-SEP-2011 15:41:30; Dark ; 30.0; 18; 24Alp PsA ; 1.17; 9700;occ; 60; 0;49738
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3; 3094.1; 03-SEP-2011 16:10:51; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;49738
4; 5383.0; 03-SEP-2011 16:48:59; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;49738
5; 5542.6; 03-SEP-2011 16:51:39; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;49738
6; 6996.7; 03-SEP-2011 17:15:53; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;49739
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3; 5383.7; 03-SEP-2011 18:29:14; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;49739
4; 5543.2; 03-SEP-2011 18:31:54; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;49739
5; 6997.3; 03-SEP-2011 18:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;49740
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3; 1341.7; 06-SEP-2011 00:29:33; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;49772
4; 3074.4; 06-SEP-2011 00:58:26; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;49772
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7; 2198.6; 06-SEP-2011 02:24:04; Bright; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 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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5; 1002.0; 06-SEP-2011 07:04:49; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;49776
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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
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7; 5781.5; 06-SEP-2011 13:25:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49779
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5; 4447.8; 09-SEP-2011 02:51:33; Bright; 42.0; 24; 66Alp Gem ; 1.58; 10200;occ; 84; 0;49816
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6; 3043.6; 10-SEP-2011 01:51:25; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;49830
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8; 3117.6; 14-SEP-2011 22:48:57; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49900
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3; 2395.0; 15-SEP-2011 16:59:28; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;49911
4; 2513.7; 15-SEP-2011 17:01:26; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;49911
5; 3005.6; 15-SEP-2011 17:09:38; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;49911

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4; 2388.3; 17-SEP-2011 20:46:34; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49942
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6; 2992.5; 17-SEP-2011 20:56:38; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;49942
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6; 2159.8; 18-SEP-2011 01:43:27; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;49945
7; 2387.6; 18-SEP-2011 01:47:15; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;49945
8; 2492.7; 18-SEP-2011 01:49:00; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;49945
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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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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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9; 2385.4; 18-SEP-2011 21:50:00; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;49957
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5; 1524.3; 19-SEP-2011 00:56:07; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;49959
6; 2158.1; 19-SEP-2011 01:06:41; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;49959
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5; 1524.4; 19-SEP-2011 02:36:21; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;49960
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5; 3084.0; 19-SEP-2011 08:03:03; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;49963
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4; 2983.9; 19-SEP-2011 09:41:37; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;49964
5; 3083.5; 19-SEP-2011 09:43:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;49964
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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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2; 1085.8; 19-SEP-2011 22:31:50; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;49972
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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5; 1526.4; 20-SEP-2011 00:19:25; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;49973
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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3; -58.5; 20-SEP-2011 01:33:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49973
4; 1086.6; 20-SEP-2011 01:52:19; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;49974
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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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11; 5021.4; 20-SEP-2011 02:57:53; Dark ; 63.5; 8; 10Alp CMi ; 0.40; 6500;occ; 127; 0;49974
12; 5608.9; 20-SEP-2011 03:07:41; Dark ; 35.0; 1; 9Alp CMA ; -1.44; 11000;occ; 70; 0;49974
13; 5722.6; 20-SEP-2011 03:09:35; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;49974
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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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6; 66.2; 20-SEP-2011 06:36:00; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;49977
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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
11; 2475.5; 20-SEP-2011 07:16:10; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;49977
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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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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8; 2470.3; 20-SEP-2011 23:58:24; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;49987
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
12; 5029.9; 21-SEP-2011 00:41:03; Dark ; 63.5; 8; 10Alp CMI ; 0.40; 6500;occ; 127; 0;49987
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Problem occurred when reading packet number 92!
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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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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
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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
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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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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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3; -345.6; 21-SEP-2011 04:12:10; Dark ; 55.5; 37; 25Del CMA ; 1.83; 5900;occ; 111; 0;49989
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
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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
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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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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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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
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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
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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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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
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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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1; 886.4; 28-SEP-2011 03:35:58; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50090
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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1; -264.0; 28-SEP-2011 04:57:02; Dark ; 49.5; 88; 31Eta CMA ; 2.45; 20000;occ; 99; 0;50090
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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1; 894.0; 28-SEP-2011 20:18:26; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50100
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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110928_213931_000001603107_00086_50100_6519.N1
1; -254.0; 28-SEP-2011 21:39:31; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;50100
2; -153.6; 28-SEP-2011 21:41:12; Dark ; 60.0; 23; 21Eps CMA ; 1.50; 26000;occ; 120; 0;50100
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110928_063717_000012023107_00077_50091_5370.N1
1; -263.1; 28-SEP-2011 06:37:17; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;50091
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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1; 2940.9; 28-SEP-2011 10:51:09; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;50094
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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1; -2990.6; 28-SEP-2011 12:32:45; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;50095
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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1; -2991.0; 28-SEP-2011 14:12:59; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50096
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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1;-2991.9; 28-SEP-2011 17:33:26; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;50098
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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1;-2992.3; 28-SEP-2011 19:13:39; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;50099
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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1; 71.8; 29-SEP-2011 02:45:39; Dark ; 48.5; 161; Tau Pup ; 2.93; 4500;occ; 97; 0;50104
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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1; -248.9; 29-SEP-2011 06:00:46; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;50105
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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1; 905.1; 29-SEP-2011 21:22:06; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;50115
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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1; 905.5; 29-SEP-2011 23:02:20; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;50116
2; 2644.1; 29-SEP-2011 23:31:19; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;50116
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1; 906.4; 30-SEP-2011 00:42:35; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;50117
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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1; 907.1; 30-SEP-2011 02:22:50; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;50118
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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1; 908.2; 30-SEP-2011 04:03:05; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;50119
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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1; 908.9; 30-SEP-2011 05:43:20; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;50120
2; 2641.6; 30-SEP-2011 06:12:12; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;50120
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20110930_072334_000000493107_00107_50121_5385.N1
1; 909.7; 30-SEP-2011 07:23:34; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;50121
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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