GOMOS Daily Report 11-SEP-2009

Level 0 and Level 1 products

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Level 2 products

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1. General Info

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.

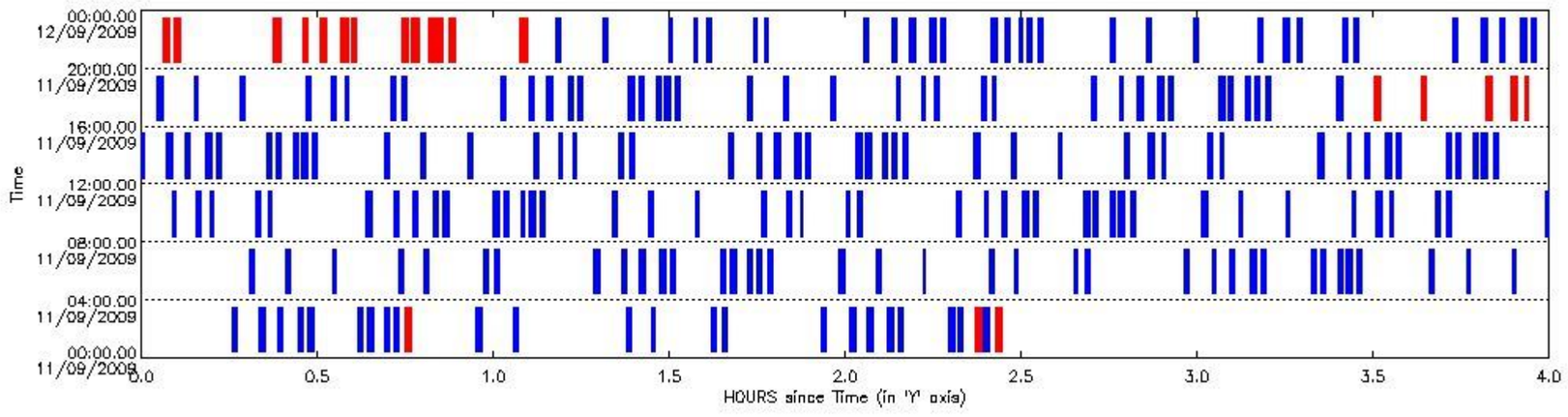
Item	Value
Time of report generation	16SEP2009 04:52:54
Data source version	GOMOS/5.00
Start time of products	11SEP2009 00:15:17
Stop time of products	11SEP2009 23:56:51
Store outputs in DB	Yes
Nb of level 1b prods	73
Nb of prods with errors	1

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
11-SEP-2009 00:44:53	AlpCol	108	39377
11-SEP-2009 02:22:11	1ZetCMa	177	39378
11-SEP-2009 02:25:30	AlpCol	108	39378
11-SEP-2009 19:30:09	AlpPhe	84	39389
11-SEP-2009 19:38:06	16BetCet	52	39389
11-SEP-2009 19:49:19	54AlpPeg	90	39389
11-SEP-2009 19:53:33	44EtaPeg	164	39389
11-SEP-2009 19:55:49	21AlpAnd	58	39389
11-SEP-2009 20:03:42	11BetCas	74	39389
11-SEP-2009 20:05:37	27GamCas	76	39389
11-SEP-2009 20:22:28	34BetAur	42	39389
11-SEP-2009 20:27:21	66AlpGem	24	39389
11-SEP-2009 20:30:22	27EpsGem	170	39389
11-SEP-2009 20:33:55	24GamGem	44	39389
11-SEP-2009 20:35:41	10AlpCMi	8	39389

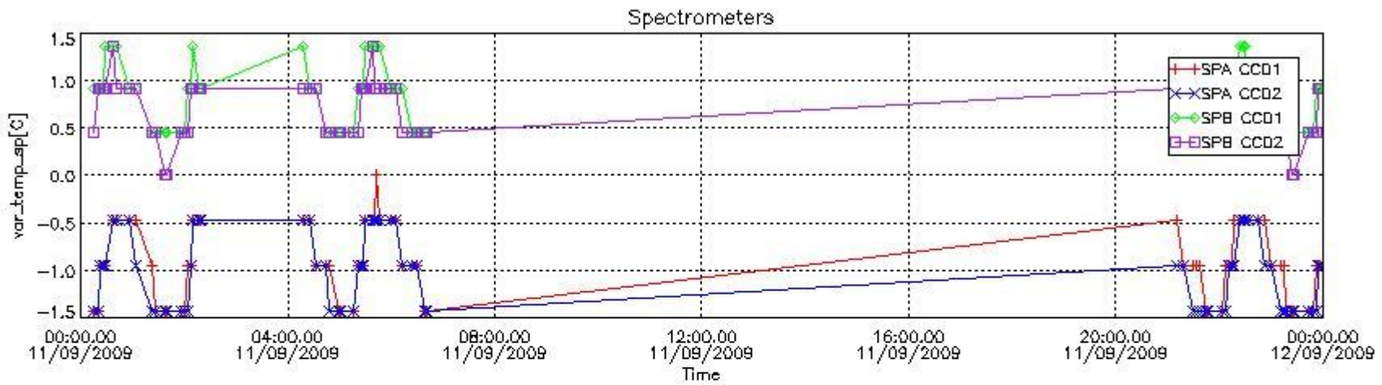
11-SEP-2009 20:44:19	9AlpCMa	1	39389
11-SEP-2009 20:46:01	2BetCMa	47	39389
11-SEP-2009 20:48:57	1ZetCMa	177	39389
11-SEP-2009 20:50:20	DSA1059	0	39389
11-SEP-2009 20:52:18	AlpCol	108	39389
11-SEP-2009 21:04:29	The1Eri	157	39390

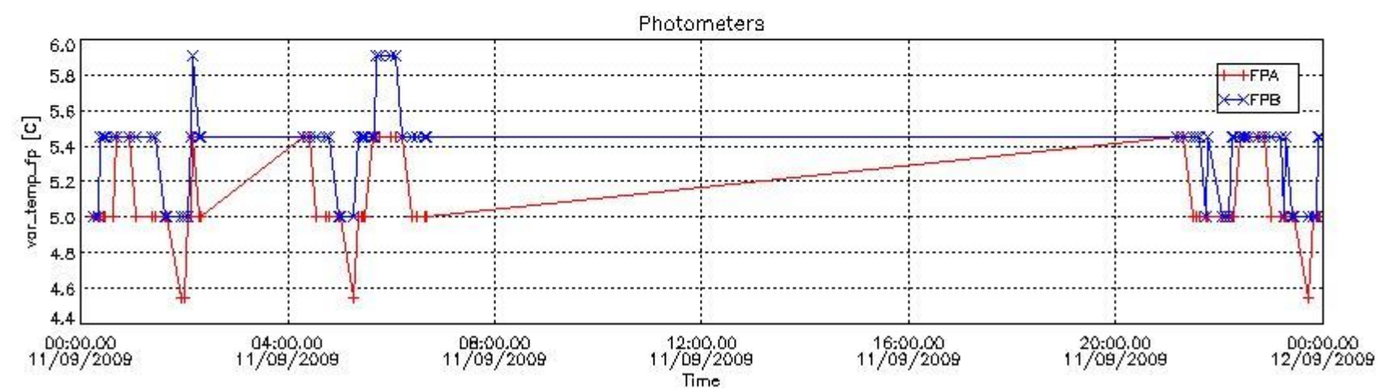
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090911_001517_000000542082_00245_39377_8787.N1	11-SEP-2009 00:15:17	Bright	53.500	42	34Bet Aur	1.9000	10200.	107	39377	No
2	GOM_TRA_1PNPDE20090911_002006_000000592082_00245_39377_8788.N1	11-SEP-2009 00:20:06	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	39377	No
3	GOM_TRA_1PNPDE20090911_002304_000000552082_00245_39377_8789.N1	11-SEP-2009 00:23:04	Twi_and_stray	54.500	170	27Eps Gem	3.0000	9700.0	109	39377	No
4	GOM_TRA_1PNPDE20090911_002634_000000612082_00245_39377_8790.N1	11-SEP-2009 00:26:34	Twi_and_stray	60.500	44	24Gam Gem	1.9280	11000.	121	39377	No
5	GOM_TRA_1PNPDE20090911_002822_000000552082_00245_39377_8791.N1	11-SEP-2009 00:28:22	Twilight	55.000	8	10Alp CMi	0.40000	6500.0	110	39377	No
6	GOM_TRA_1PNPDE20090911_003655_000000522082_00245_39377_8932.N1	11-SEP-2009 00:36:55	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	39377	No
7	GOM_TRA_1PNPDE20090911_003834_000000522082_00245_39377_8933.N1	11-SEP-2009 00:38:34	Dark	52.000	47	2Bet CMa	1.9760	28000.	104	39377	No
8	GOM_TRA_1PNPDE20090911_004132_000000452082_00245_39377_8934.N1	11-SEP-2009 00:41:32	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	39377	No
9	GOM_TRA_1PNPDE20090911_005703_000000562082_00246_39378_8935.N1	11-SEP-2009 00:57:03	Dark	56.000	157	The1Eri	2.9060	9300.0	112	39378	No
10	GOM_TRA_1PNPDE20090911_010327_000000462082_00246_39378_8936.N1	11-SEP-2009 01:03:27	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39378	No
11	GOM_TRA_1PNPDE20090911_012244_000000402082_00246_39378_8937.N1	11-SEP-2009 01:22:44	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	39378	No
12	GOM_TRA_1PNPDE20090911_012658_000000392082_00246_39378_8938.N1	11-SEP-2009 01:26:58	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	39378	No
13	GOM_TRA_1PNPDE20090911_013711_000000422082_00246_39378_8939.N1	11-SEP-2009 01:37:11	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39378	No
14	GOM_TRA_1PNPDE20090911_013906_000000452082_00246_39378_8940.N1	11-SEP-2009 01:39:06	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39378	No
15	GOM_TRA_1PNPDE20090911_015553_000000562082_00246_39378_8941.N1	11-SEP-2009 01:55:53	Bright	55.500	42	34Bet Aur	1.9000	10200.	111	39378	No
16	GOM_TRA_1PNPDE20090911_020041_000000592082_00246_39378_8942.N1	11-SEP-2009 02:00:41	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	39378	No
17	GOM_TRA_1PNPDE20090911_020341_000000592082_00246_39378_8943.N1	11-SEP-2009 02:03:41	Twi_and_stray	59.000	170	27Eps Gem	3.0000	9700.0	118	39378	No
18	GOM_TRA_1PNPDE20090911_020711_000000612082_00246_39378_8944.N1	11-SEP-2009 02:07:11	Twi_and_stray	60.500	44	24Gam Gem	1.9280	11000.	121	39378	No
19	GOM_TRA_1PNPDE20090911_020858_000000502082_00246_39378_9090.N1	11-SEP-2009 02:08:58	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	39378	Yes
20	GOM_TRA_1PNPDE20090911_021731_000000642082_00246_39378_9091.N1	11-SEP-2009 02:17:31	Dark	64.000	1	9Alp CMa	-1.4400	11000.	128	39378	No
21	GOM_TRA_1PNPDE20090911_021911_000000522082_00246_39378_9092.N1	11-SEP-2009 02:19:11	Dark	52.000	47	2Bet CMa	1.9760	28000.	104	39378	No
22	GOM_TRA_1PNPDE20090911_041817_000000562082_00248_39380_9240.N1	11-SEP-2009 04:18:17	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39380	No
23	GOM_TRA_1PNPDE20090911_042439_000000472082_00248_39380_9241.N1	11-SEP-2009 04:24:39	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39380	No
24	GOM_TRA_1PNPDE20090911_043239_000000272082_00248_39380_9242.N1	11-SEP-2009 04:32:39	Twi_and_stray	27.000	52	16Bet Cet	2.0370	4500.0	54	39380	No
25	GOM_TRA_1PNPDE20090911_044356_000000422082_00248_39380_9243.N1	11-SEP-2009 04:43:56	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	39380	No
26	GOM_TRA_1PNPDE20090911_044810_000000402082_00248_39380_9244.N1	11-SEP-2009 04:48:10	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39380	No
27	GOM_TRA_1PNPDE20090911_045822_000000432082_00248_39380_9245.N1	11-SEP-2009 04:58:22	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39380	No
28	GOM_TRA_1PNPDE20090911_050017_000000432082_00248_39380_9246.N1	11-SEP-2009 05:00:17	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	39380	No
29	GOM_TRA_1PNPDE20090911_051705_000000572082_00248_39380_9417.N1	11-SEP-2009 05:17:05	Bright	56.500	42	34Bet Aur	1.9000	10200.	113	39380	No
30	GOM_TRA_1PNPDE20090911_052154_000000432082_00248_39380_9418.N1	11-SEP-2009 05:21:54	Bright	42.500	24	66Alp Gem	1.5800	10200.	85	39380	No
31	GOM_TRA_1PNPDE20090911_052453_000000632082_00248_39380_9419.N1	11-SEP-2009 05:24:53	Twi_and_stray	63.000	170	27Eps Gem	3.0000	9700.0	126	39380	No
32	GOM_TRA_1PNPDE20090911_052824_000000602082_00248_39380_9420.N1	11-SEP-2009 05:28:24	Twi_and_stray	60.000	44	24Gam Gem	1.9280	11000.	120	39380	No
33	GOM_TRA_1PNPDE20090911_053011_000000542082_00248_39380_9421.N1	11-SEP-2009 05:30:11	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	39380	No
34	GOM_TRA_1PNPDE20090911_053845_000000522082_00248_39380_9422.N1	11-SEP-2009 05:38:45	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	39380	No
35	GOM_TRA_1PNPDE20090911_054025_000000552082_00248_39380_9423.N1	11-SEP-2009 05:40:25	Dark	54.500	47	2Bet CMa	1.9760	28000.	109	39380	No
36	GOM_TRA_1PNPDE20090911_054323_000000472082_00248_39380_9424.N1	11-SEP-2009 05:43:23	Dark	46.500	177	1Zet CMa	3.0220	26000.	93	39380	No
37	GOM_TRA_1PNPDE20090911_054642_000000492082_00248_39380_9425.N1	11-SEP-2009 05:46:42	Dark	48.500	108	Alp Col	2.6520	15200.	97	39380	No
38	GOM_TRA_1PNPDE20090911_055854_000000552082_00249_39381_9426.N1	11-SEP-2009 05:58:54	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39381	No
39	GOM_TRA_1PNPDE20090911_060516_000000442082_00249_39381_9427.N1	11-SEP-2009 06:05:16	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	39381	No
40	GOM_TRA_1PNPDE20090911_061315_000000272082_00249_39381_9428.N1	11-SEP-2009 06:13:15	Twi_and_stray	27.000	52	16Bet Cet	2.0370	4500.0	54	39381	No
41	GOM_TRA_1PNPDE20090911_062431_000000422082_00249_39381_9429.N1	11-SEP-2009 06:24:31	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39381	No
42	GOM_TRA_1PNPDE20090911_062845_000000412082_00249_39381_9430.N1	11-SEP-2009 06:28:45	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	39381	No
43	GOM_TRA_1PNPDE20090911_063857_000000422082_00249_39381_9431.N1	11-SEP-2009 06:38:57	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39381	No
44	GOM_TRA_1PNPDE20090911_064052_000000442082_00249_39381_9432.N1	11-SEP-2009 06:40:52	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39381	No
45	GOM_TRA_1PNPDE20090911_211043_000000472082_00258_39390_9806.N1	11-SEP-2009 21:10:43	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	39390	No
46	GOM_TRA_1PNPDE20090911_211839_000000532082_00258_39390_9807.N1	11-SEP-2009 21:18:39	Twi_and_stray	53.000	52	16Bet Cet	2.0370	4500.0	106	39390	No
47	GOM_TRA_1PNPDE20090911_212952_000000412082_00258_39390_9808.N1	11-SEP-2009 21:29:52	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	39390	No
48	GOM_TRA_1PNPDE20090911_213406_000000382082_00258_39390_9809.N1	11-SEP-2009 21:34:06	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	39390	No

49	GOM_TRA_1PNPDE20090911_213622_000000502082_00258_39390_9810.N1	11-SEP-2009 21:36:22	Bright	49.500	58	21Alp And	2.0730	11000.	99	39390	No
50	GOM_TRA_1PNPDE20090911_214416_000000422082_00258_39390_9811.N1	11-SEP-2009 21:44:16	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39390	No
51	GOM_TRA_1PNPDE20090911_214610_000000442082_00258_39390_9812.N1	11-SEP-2009 21:46:10	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	39390	No
52	GOM_TRA_1PNPDE20090911_220301_000000532082_00258_39390_9813.N1	11-SEP-2009 22:03:01	Bright	52.500	42	34Bet Aur	1.9000	10200.	105	39390	No
53	GOM_TRA_1PNPDE20090911_220754_000000442082_00258_39390_9814.N1	11-SEP-2009 22:07:54	Bright	44.000	24	66Alp Gem	1.5800	10200.	88	39390	No
54	GOM_TRA_1PNPDE20090911_221055_000000602082_00258_39390_9815.N1	11-SEP-2009 22:10:55	Twi_and_stray	59.500	170	27Eps Gem	3.0000	9700.0	119	39390	No
55	GOM_TRA_1PNPDE20090911_221429_000000602082_00258_39390_9816.N1	11-SEP-2009 22:14:29	Twi_and_stray	59.500	44	24Gam Gem	1.9280	11000.	119	39390	No
56	GOM_TRA_1PNPDE20090911_221615_000000472082_00258_39390_9817.N1	11-SEP-2009 22:16:15	Twilight	46.500	8	10Alp CMi	0.40000	6500.0	93	39390	No
57	GOM_TRA_1PNPDE20090911_222453_000000542082_00258_39390_9965.N1	11-SEP-2009 22:24:53	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	39390	No
58	GOM_TRA_1PNPDE20090911_222718_000000442082_00258_39390_9966.N1	11-SEP-2009 22:27:18	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	39390	No
59	GOM_TRA_1PNPDE20090911_222931_000000462082_00258_39390_9967.N1	11-SEP-2009 22:29:31	Dark	45.500	177	1Zet CMa	3.0220	26000.	91	39390	No
60	GOM_TRA_1PNPDE20090911_223253_000000492082_00258_39390_9968.N1	11-SEP-2009 22:32:53	Dark	49.000	108	Alp Col	2.6520	15200.	98	39390	No
61	GOM_TRA_1PNPDE20090911_224504_000000562082_00259_39391_9969.N1	11-SEP-2009 22:45:04	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39391	No
62	GOM_TRA_1PNPDE20090911_225119_000000462082_00259_39391_9970.N1	11-SEP-2009 22:51:19	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39391	No
63	GOM_TRA_1PNPDE20090911_225915_000000532082_00259_39391_9971.N1	11-SEP-2009 22:59:15	Twi_and_stray	53.000	52	16Bet Cet	2.0370	4500.0	106	39391	No
64	GOM_TRA_1PNPDE20090911_231028_000000402082_00259_39391_9972.N1	11-SEP-2009 23:10:28	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	39391	No
65	GOM_TRA_1PNPDE20090911_231442_000000572082_00259_39391_9973.N1	11-SEP-2009 23:14:42	Bright	57.000	164	44Eta Peg	2.9480	5400.0	114	39391	No
66	GOM_TRA_1PNPDE20090911_231657_000000502082_00259_39391_9974.N1	11-SEP-2009 23:16:57	Bright	50.000	58	21Alp And	2.0730	11000.	100	39391	No
67	GOM_TRA_1PNPDE20090911_232451_000000422082_00259_39391_9975.N1	11-SEP-2009 23:24:51	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39391	No
68	GOM_TRA_1PNPDE20090911_232645_000000412082_00259_39391_9976.N1	11-SEP-2009 23:26:45	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	39391	No
69	GOM_TRA_1PNPDE20090911_234337_000000512082_00259_39391_9977.N1	11-SEP-2009 23:43:37	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	39391	No
70	GOM_TRA_1PNPDE20090911_234830_000000602082_00259_39391_9978.N1	11-SEP-2009 23:48:30	Bright	60.000	24	66Alp Gem	1.5800	10200.	120	39391	No
71	GOM_TRA_1PNPDE20090911_235132_000000572082_00259_39391_9979.N1	11-SEP-2009 23:51:32	Twi_and_stray	57.000	170	27Eps Gem	3.0000	9700.0	114	39391	No
72	GOM_TRA_1PNPDE20090911_235505_000000582082_00259_39391_9980.N1	11-SEP-2009 23:55:05	Twi_and_stray	58.000	44	24Gam Gem	1.9280	11000.	116	39391	No
73	GOM_TRA_1PNPDE20090911_235651_000000552082_00259_39391_9981.N1	11-SEP-2009 23:56:51	Twilight	54.500	8	10Alp CMi	0.40000	6500.0	109	39391	No

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





4. Overview of dark signal processing per product

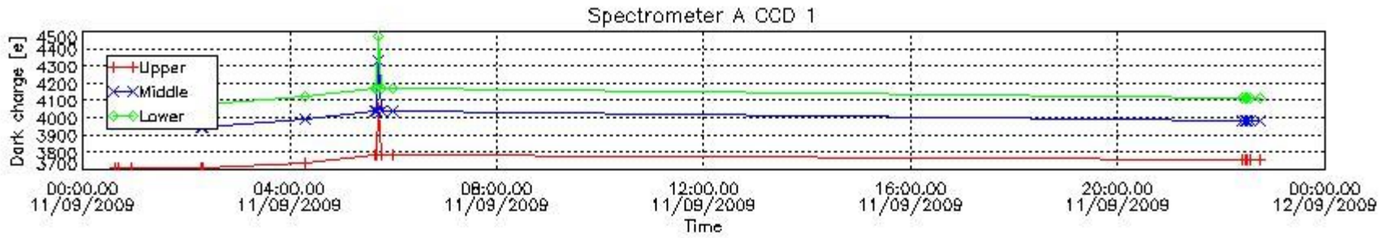
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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.

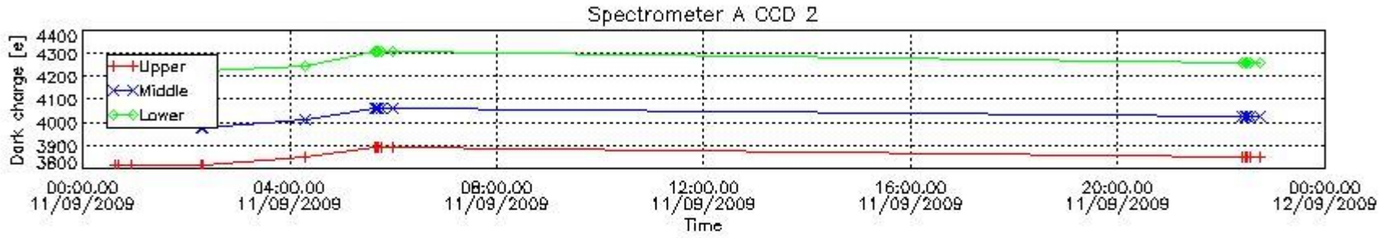
4.1 These products did not use the DSA observation for DC computation:

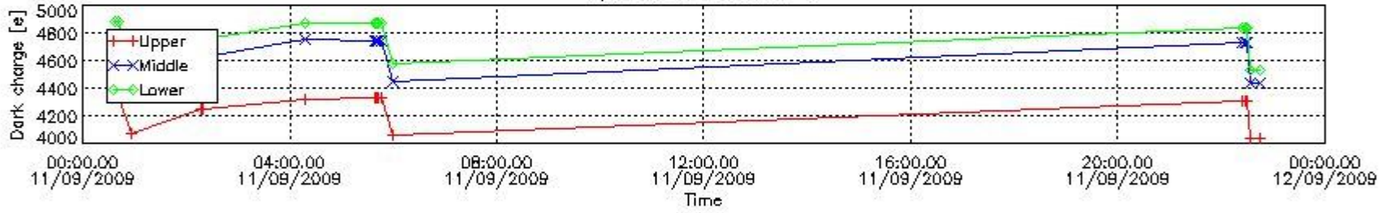
Product name	DC information
GOM_TRA_1PNPDE20090911_041817_000000562082_00248_39380_9240.N1	DC map used
GOM_TRA_1PNPDE20090911_042439_000000472082_00248_39380_9241.N1	DC map used
GOM_TRA_1PNPDE20090911_043239_000000272082_00248_39380_9242.N1	DC map used
GOM_TRA_1PNPDE20090911_044356_000000422082_00248_39380_9243.N1	DC map used
GOM_TRA_1PNPDE20090911_044810_000000402082_00248_39380_9244.N1	DC map used
GOM_TRA_1PNPDE20090911_045822_000000432082_00248_39380_9245.N1	DC map used
GOM_TRA_1PNPDE20090911_050017_000000432082_00248_39380_9246.N1	DC map used
GOM_TRA_1PNPDE20090911_211043_000000472082_00258_39390_9806.N1	DC map used
GOM_TRA_1PNPDE20090911_211839_000000532082_00258_39390_9807.N1	DC map used
GOM_TRA_1PNPDE20090911_212952_000000412082_00258_39390_9808.N1	DC map used
GOM_TRA_1PNPDE20090911_213406_000000382082_00258_39390_9809.N1	DC map used
GOM_TRA_1PNPDE20090911_213622_000000502082_00258_39390_9810.N1	DC map used
GOM_TRA_1PNPDE20090911_214416_000000422082_00258_39390_9811.N1	DC map used
GOM_TRA_1PNPDE20090911_214610_000000442082_00258_39390_9812.N1	DC map used

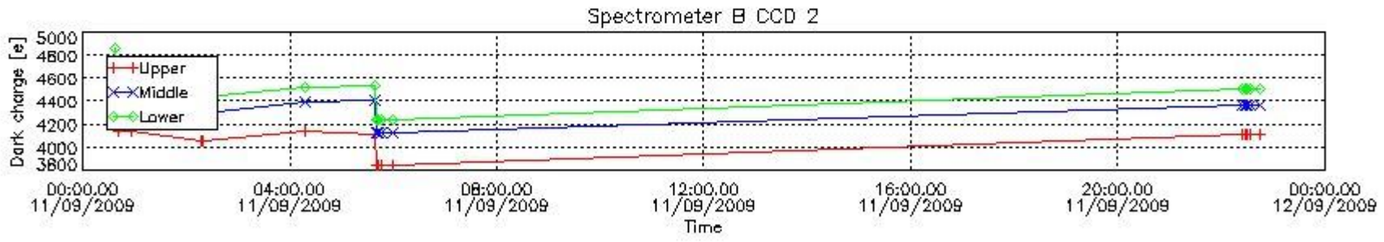
GOM_TRA_1PNPDE20090911_220301_000000532082_00258_39390_9813.N1	DC map used
GOM_TRA_1PNPDE20090911_220754_000000442082_00258_39390_9814.N1	DC map used
GOM_TRA_1PNPDE20090911_221055_000000602082_00258_39390_9815.N1	DC map used
GOM_TRA_1PNPDE20090911_221429_000000602082_00258_39390_9816.N1	DC map used
GOM_TRA_1PNPDE20090911_221615_000000472082_00258_39390_9817.N1	DC map used

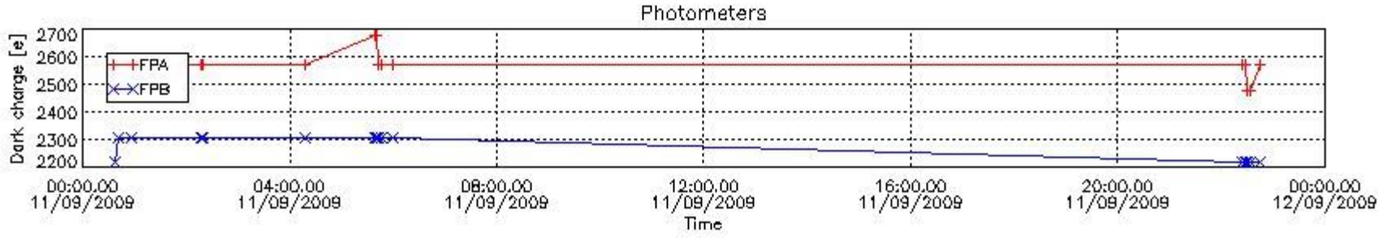
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











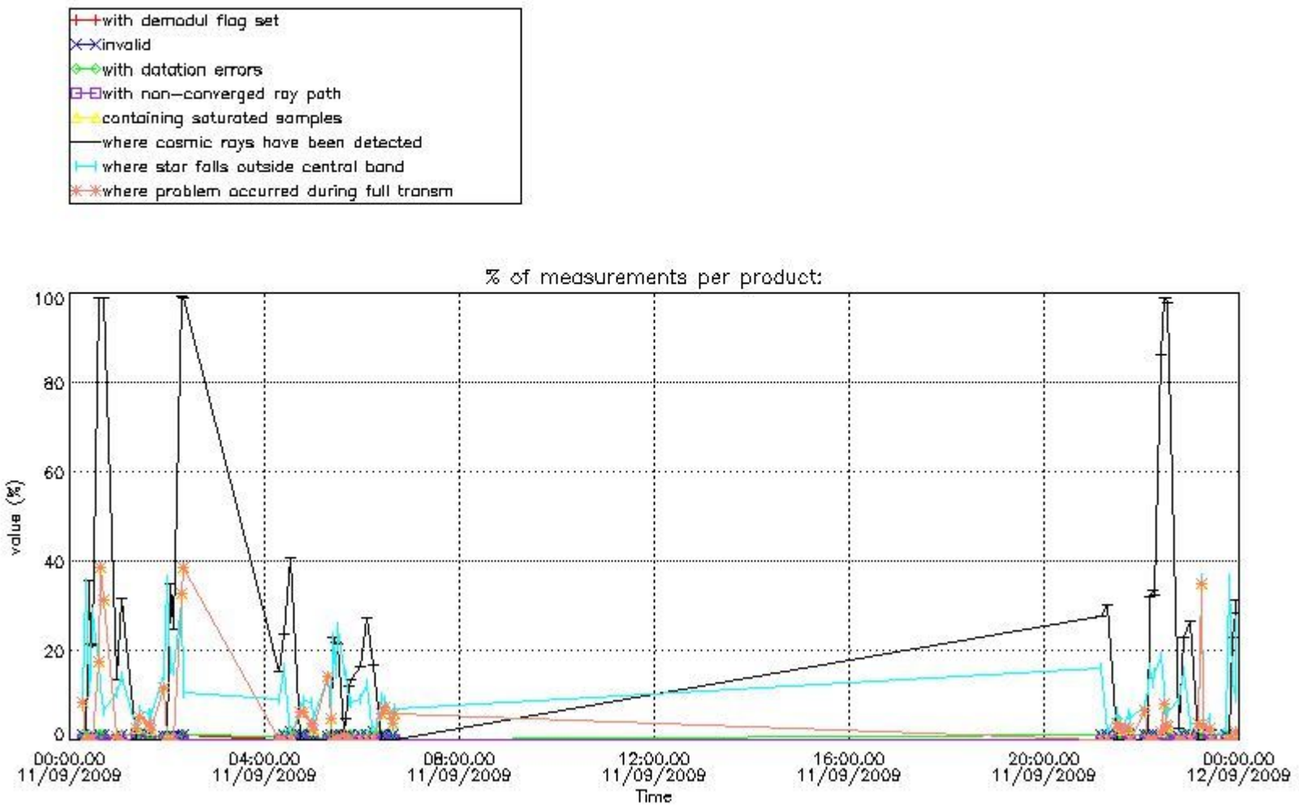
5. Demodulation flag and quality information monitoring

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.

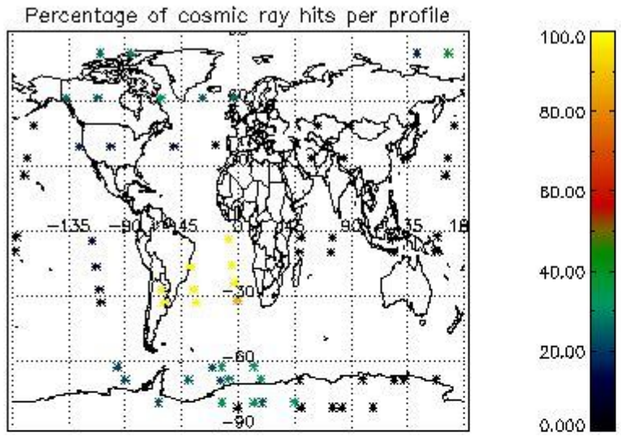
5.1 Percentage of products during reporting period with:

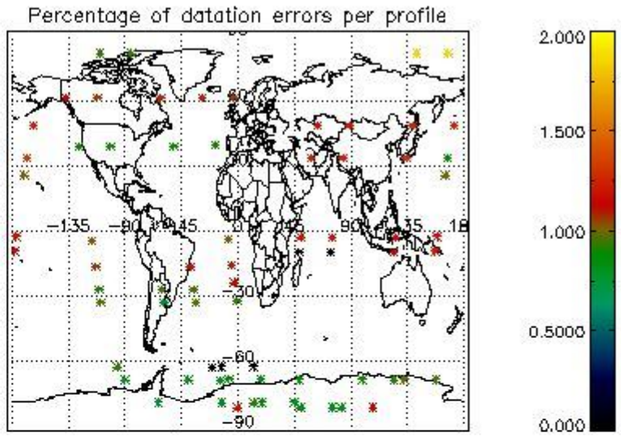
At least one measurement with demodulation flag set:	33.3333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

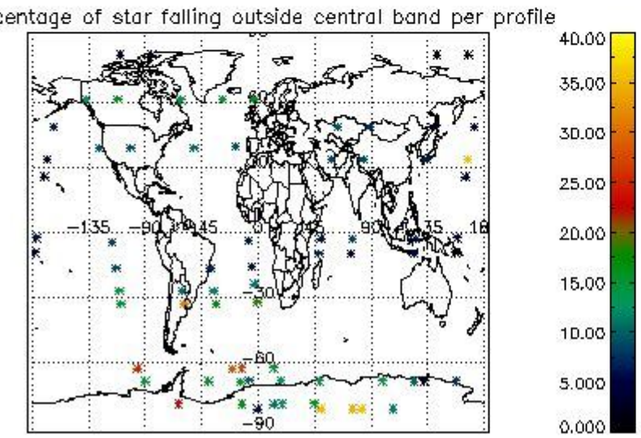
5.2 Plot quality information per product (time dependant)

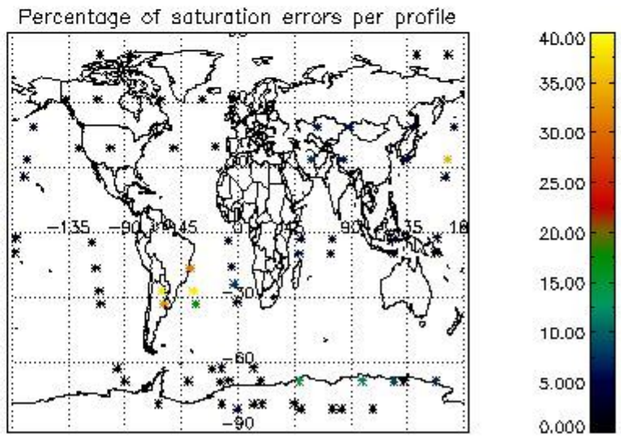


5.3 Plot quality information per product (world map)









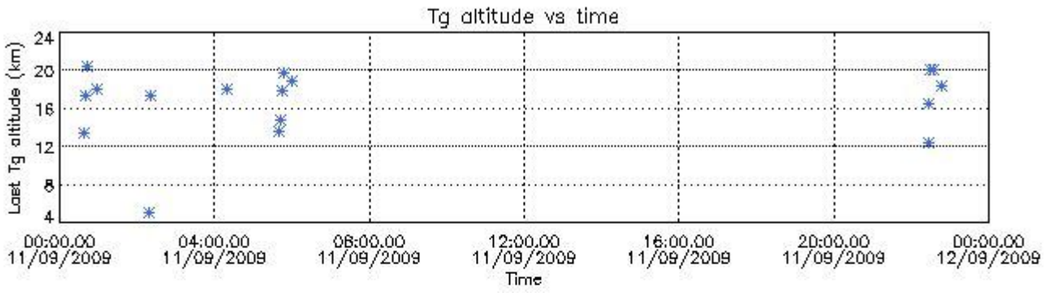
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

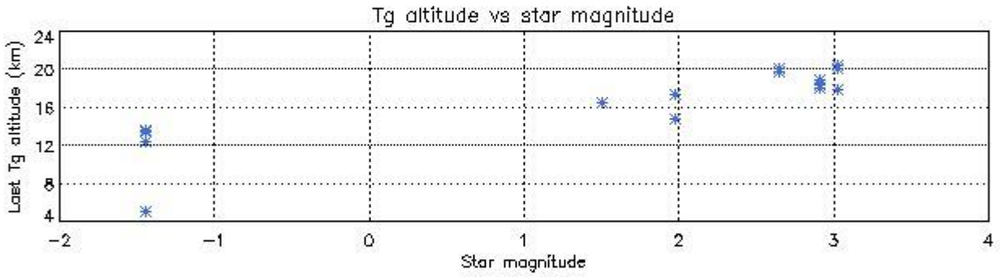
6.1 Statistics on tangent altitude lost:

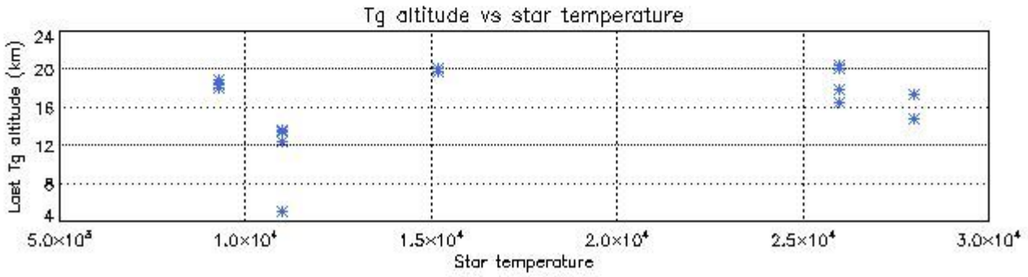
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.585	18.418	8.9009
St. deviation:	3.8425	5.9978	3.2946
Maximum:	20.349	26.259	13.807
Minimum:	5.0700	3.7030	6.7113
Number of data:	17.000	32.000	4.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

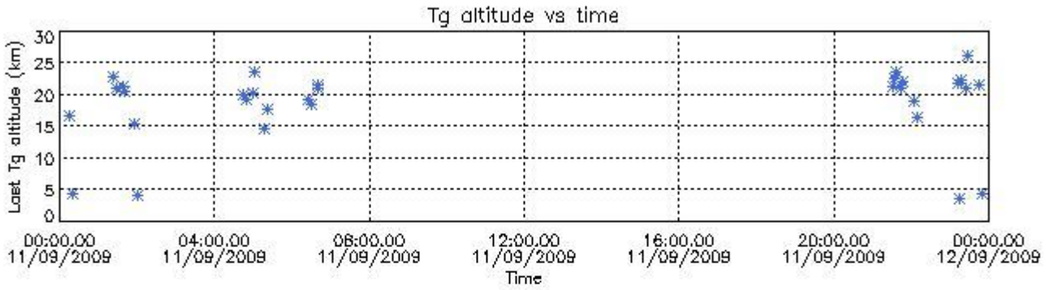


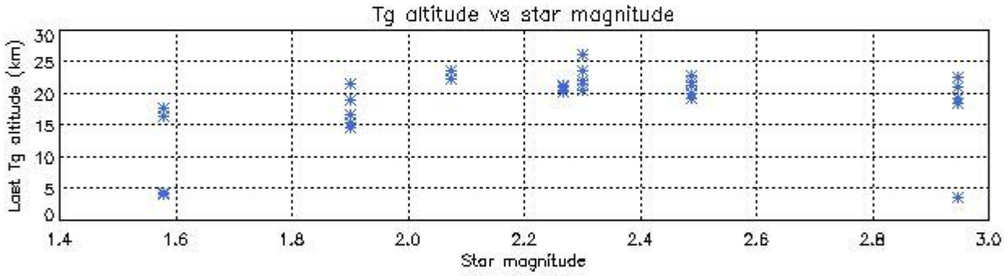


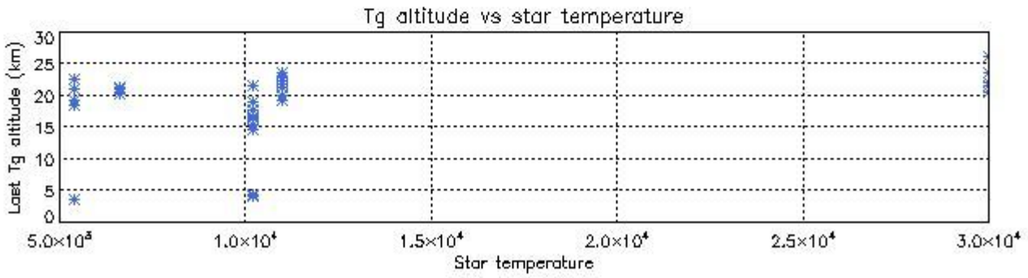


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

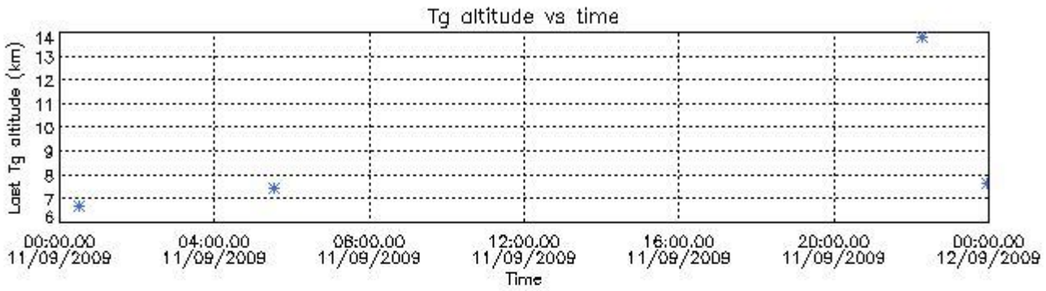


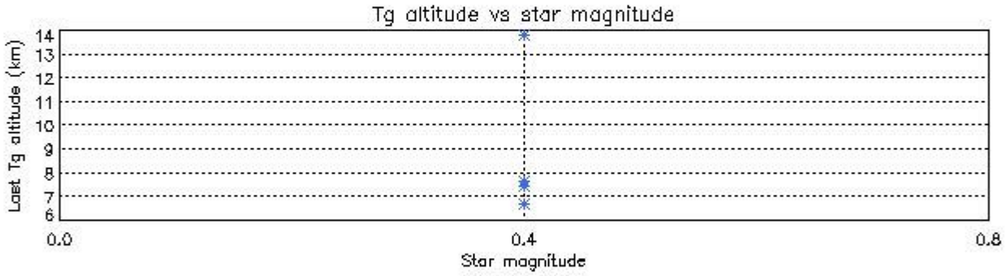


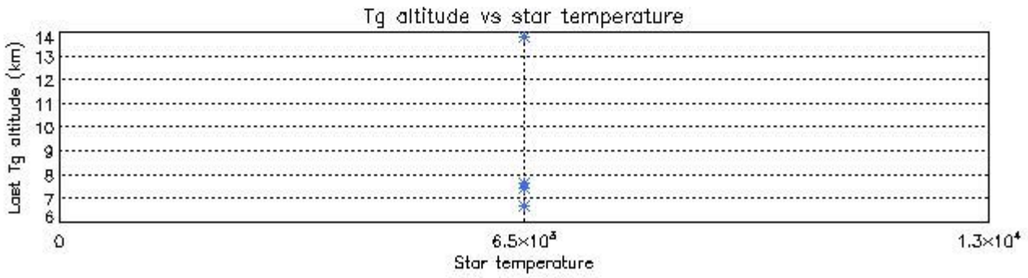


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





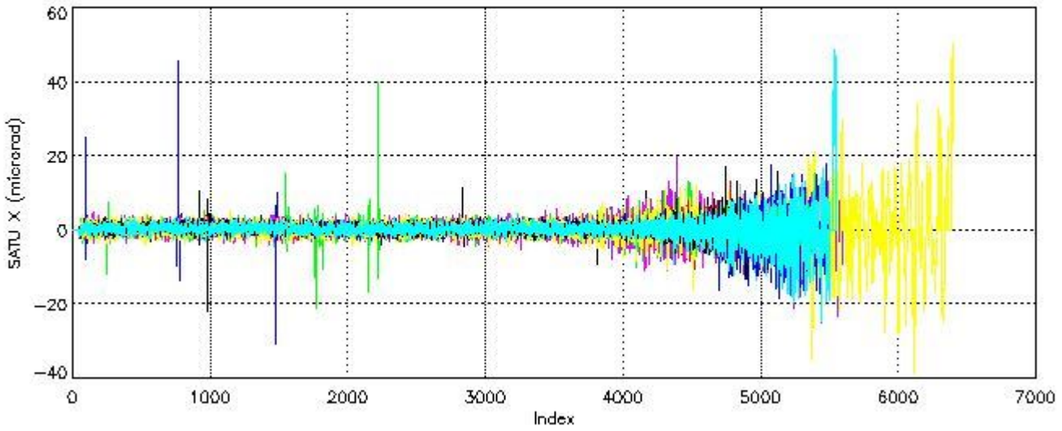


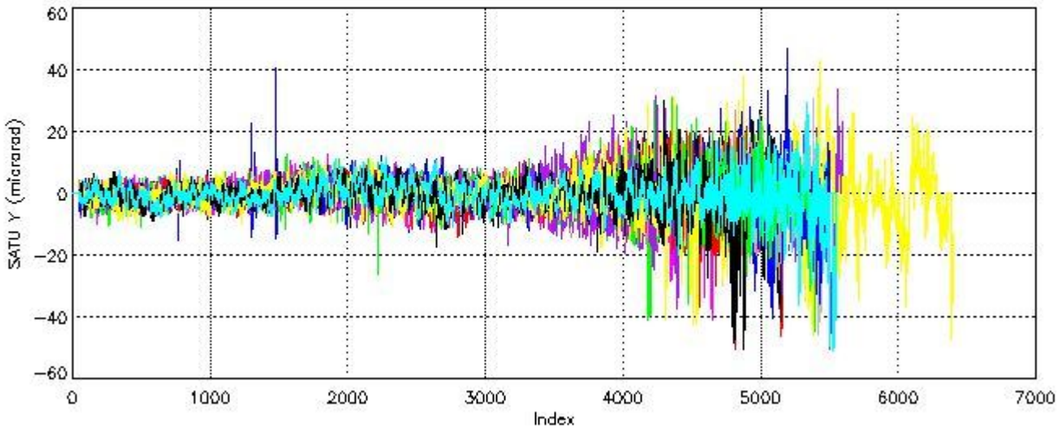
7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main functin 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 frecuency 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:	0.28141	-0.83665	0.27936	-0.64711
St. deviation:	0.86547	2.0761	0.79075	2.1485
Maximum:	45.600	10.500	4.9000	8.6000
Minimum:	-22.100	-15.500	-3.6000	-13.300

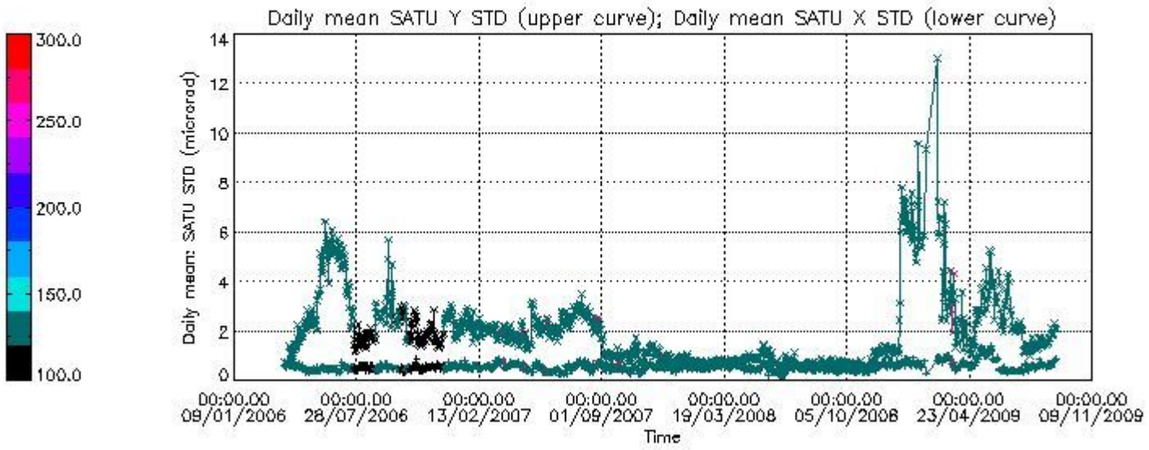
Number of data:	19800.	19800.	32700.	32700.

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

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

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

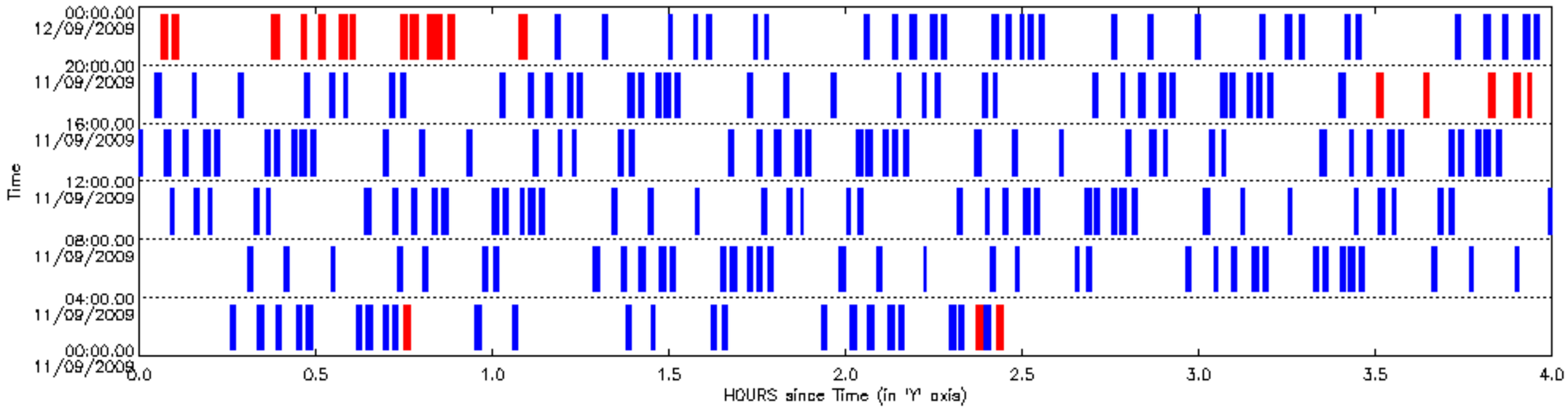
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

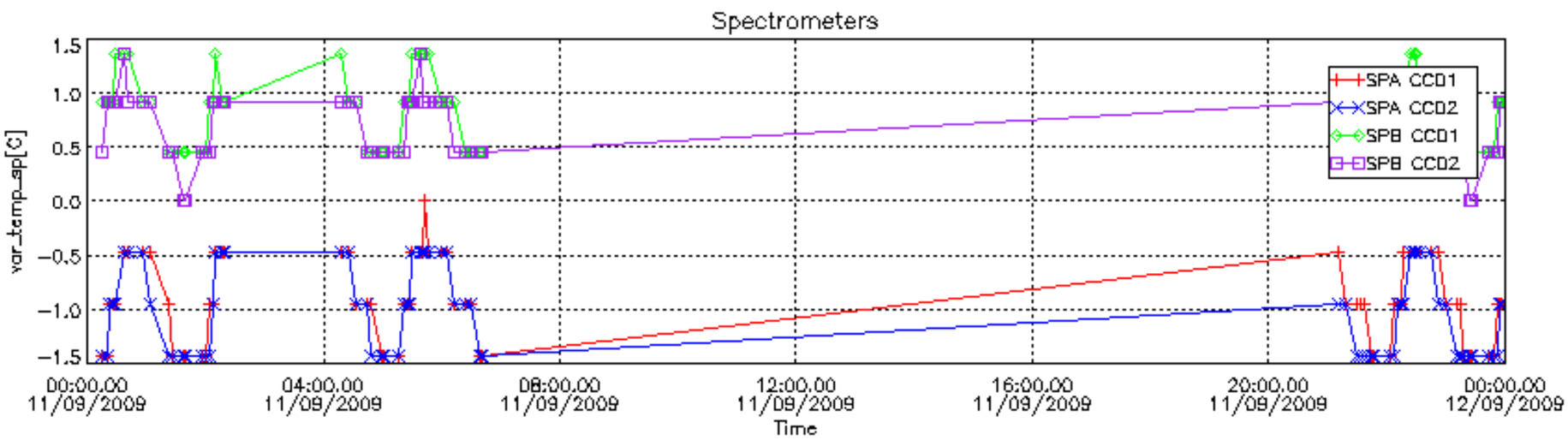


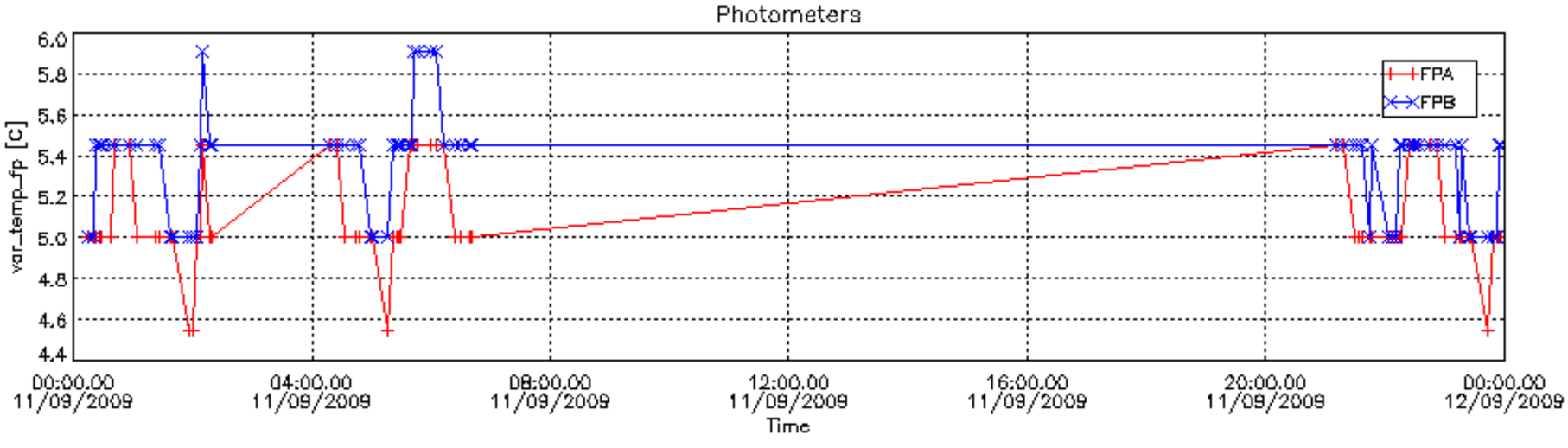
8. Auxiliary Data Files used for the production reported in section 2.4

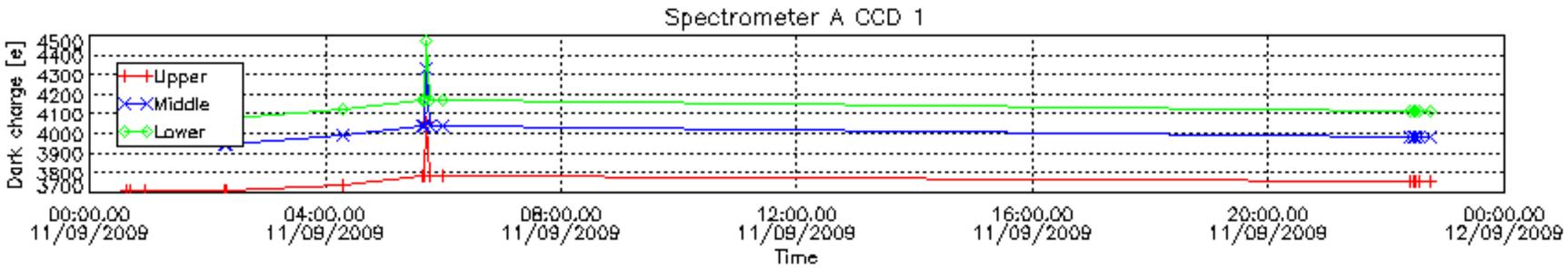
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

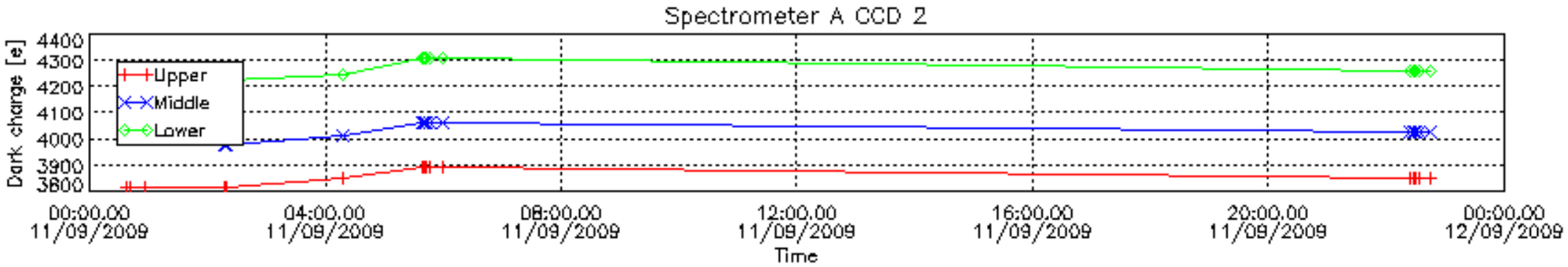
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-SEP-2009 00:15:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090907_104444_20090905_000000_20100101_000000	1	11-SEP-2009 00:15:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-SEP-2009 00:15:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-SEP-2009 00:15:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-SEP-2009 00:15:17
ECMWF_FILE	AUX_ECF_AXNECM20090910_064111_20090910_210000_20090911_090000	1	11-SEP-2009 00:15:17
ECMWF_FILE	AUX_ECF_AXNECM20090910_184115_20090911_030000_20090911_150000	22	11-SEP-2009 04:18:17
ECMWF_FILE	AUX_ECF_AXNECM20090911_064112_20090911_210000_20090912_090000	45	11-SEP-2009 21:10:43
OPTIONAL_ECMWF_FILE	MISSING	1	11-SEP-2009 00:15:17
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090910_210536_000060572082_00243_39375_8734.N1	1	11-SEP-2009 00:15:17
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090910_225152_000057382082_00244_39376_8735.N1	6	11-SEP-2009 00:36:55
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090911_003249_000054192082_00245_39377_8736.N1	19	11-SEP-2009 02:08:58
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090911_020827_000041442082_00246_39378_8737.N1	22	11-SEP-2009 04:18:17
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090911_032250_000057382082_00247_39379_8738.N1	29	11-SEP-2009 05:17:05
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090911_210528_000041442082_00258_39390_8740.N1	45	11-SEP-2009 21:10:43

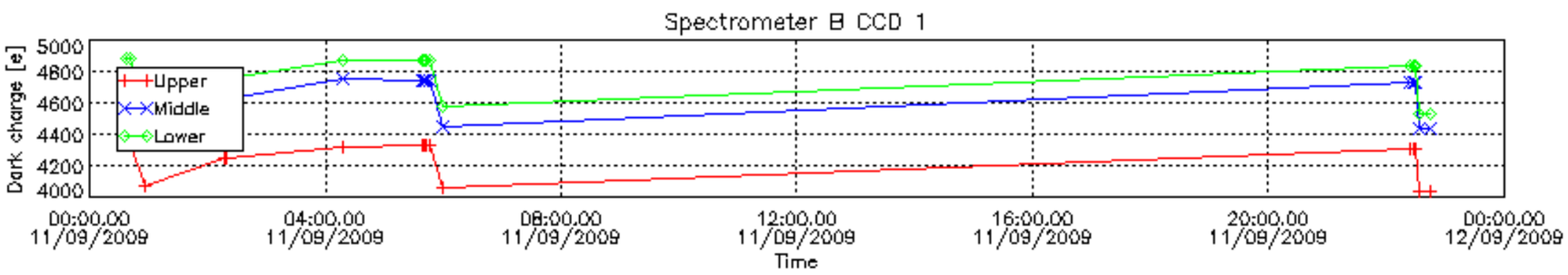

00:00.00
12/09/2009
20:00.00
11/09/2009
16:00.00
11/09/2009
12:00.00
11/09/2009
08:00.00
11/09/2009
04:00.00
11/09/2009
00:00.00
11/09/2009
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

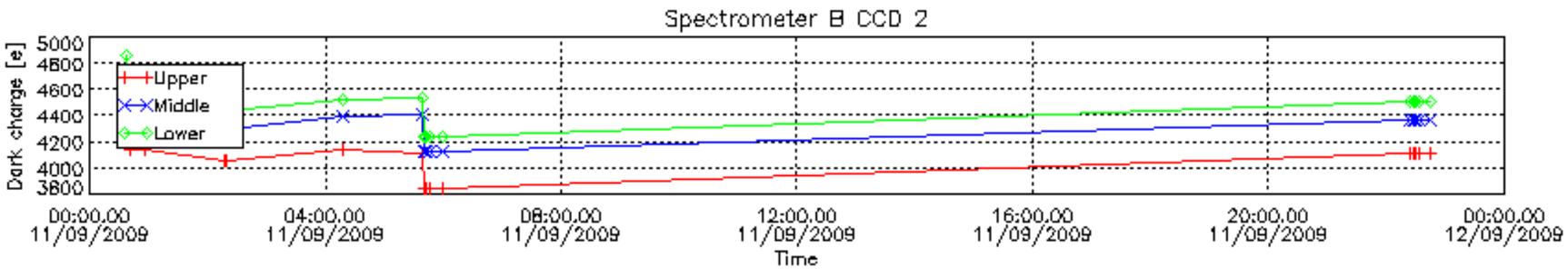

Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
11/09/2009
04:00.00
11/09/2009
08:00.00
11/09/2009
12:00.00
11/09/2009
16:00.00
11/09/2009
20:00.00
11/09/2009
00:00.00
12/09/2009
Time

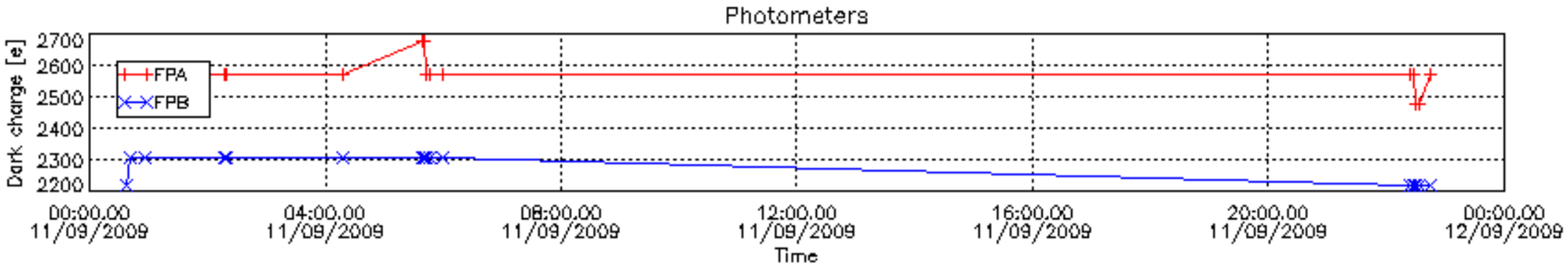

Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
FPA
FPB
00:00.00
11/09/2009
04:00.00
11/09/2009
08:00.00
11/09/2009
12:00.00
11/09/2009
16:00.00
11/09/2009
20:00.00
11/09/2009
00:00.00
12/09/2009
Time

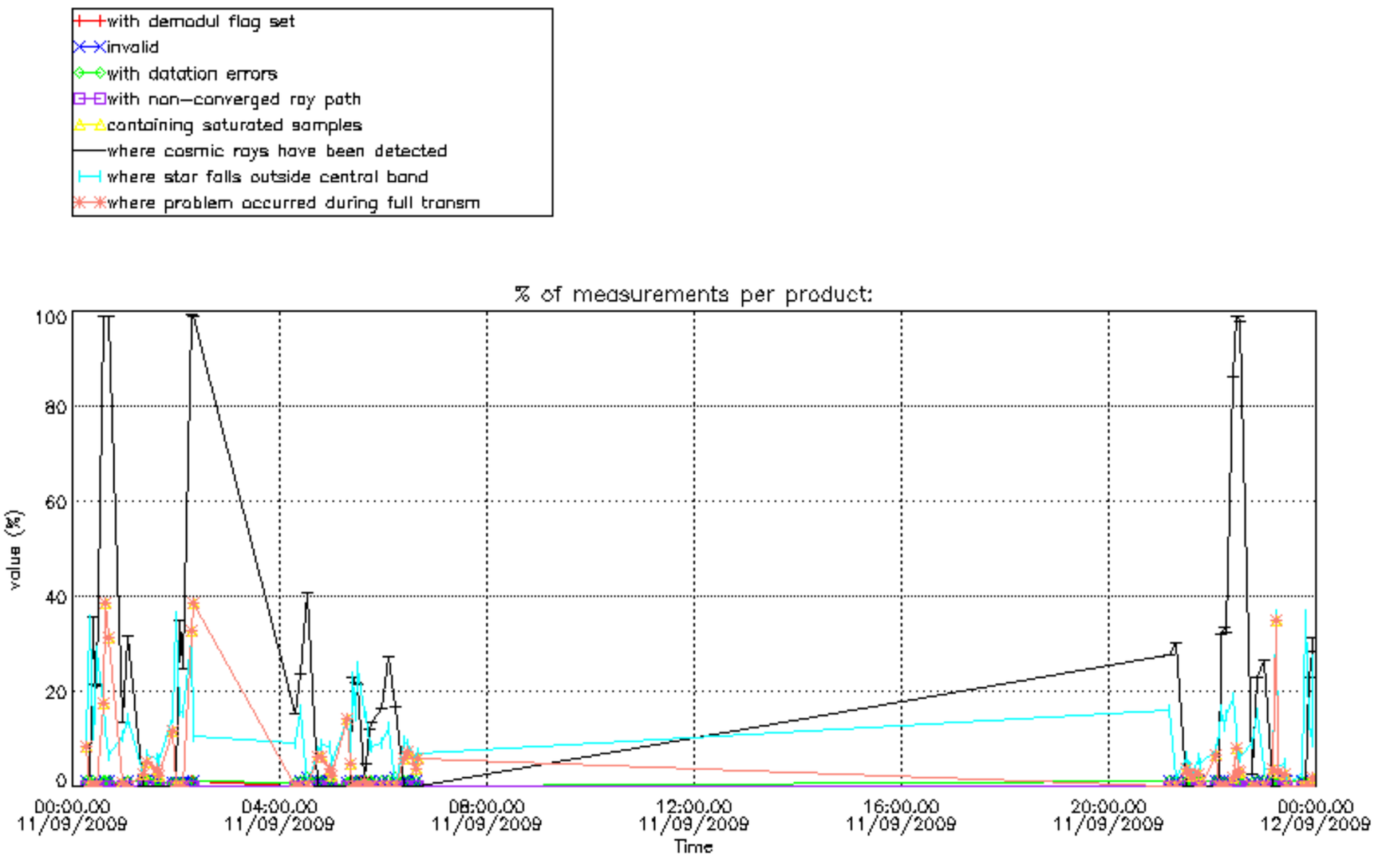

Spectrometer A CCD 1
Dark charge [e]
4500
4400
4300
4200
4100
4000
3900
3800
3700
Upper
Middle
Lower
00:00.00 11/09/2009
04:00.00 11/09/2009
08:00.00 11/09/2009
12:00.00 11/09/2009
16:00.00 11/09/2009
20:00.00 11/09/2009
00:00.00 12/09/2009
Time

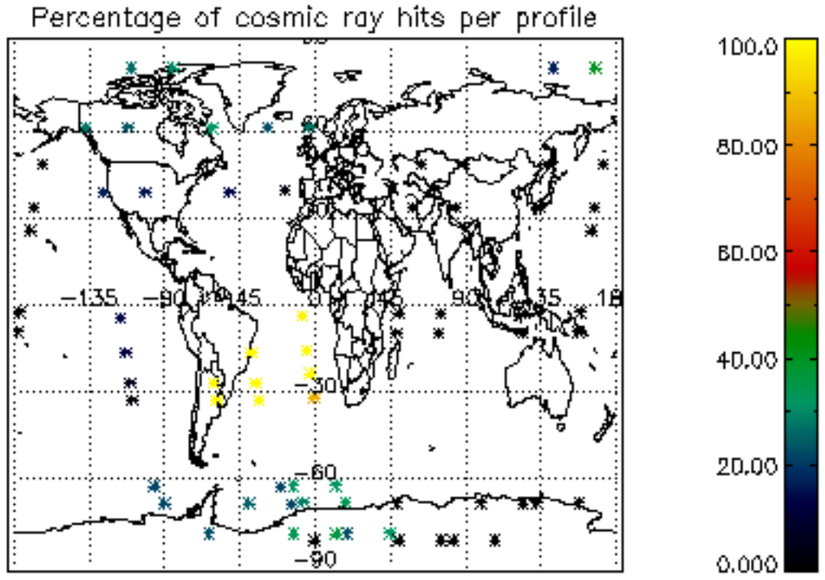

Spectrometer A CCD 2
Dark charge [e]
4400
4300
4200
4100
4000
3900
3800
Upper
Middle
Lower
00:00.00 11/09/2009
04:00.00 11/09/2009
08:00.00 11/09/2009
12:00.00 11/09/2009
16:00.00 11/09/2009
20:00.00 11/09/2009
00:00.00 12/09/2009
Time

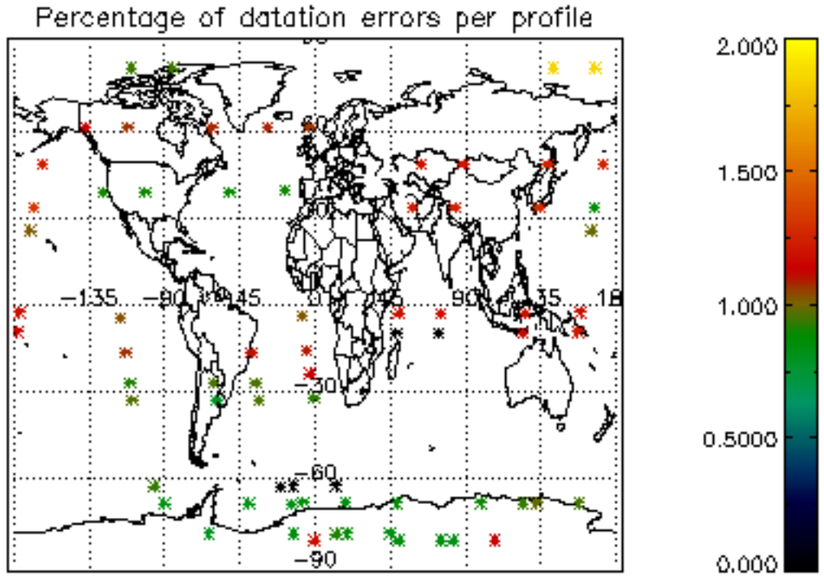

Spectrometer B CCD 1
Dark charge [e]
5000
4800
4600
4400
4200
4000
Upper
Middle
Lower
00:00.00 11/09/2009
04:00.00 11/09/2009
08:00.00 11/09/2009
12:00.00 11/09/2009
16:00.00 11/09/2009
20:00.00 11/09/2009
00:00.00 12/09/2009
Time


Spectrometer B CCD 2
Dark charge [e]
5000
4800
4600
4400
4200
4000
3800
Upper
Middle
Lower
00:00.00 11/09/2009
04:00.00 11/09/2009
08:00.00 11/09/2009
12:00.00 11/09/2009
16:00.00 11/09/2009
20:00.00 11/09/2009
00:00.00 12/09/2009
Time


Photometers
Dark charge [e]
2700
2600
2500
2400
2300
2200
FPA
FPB
00:00.00 11/09/2009
04:00.00 11/09/2009
08:00.00 11/09/2009
12:00.00 11/09/2009
16:00.00 11/09/2009
20:00.00 11/09/2009
00:00.00 12/09/2009
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00 11/09/2009
04:00.00 11/09/2009
08:00.00 11/09/2009
12:00.00 11/09/2009
16:00.00 11/09/2009
20:00.00 11/09/2009
00:00.00 12/09/2009
Time


Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of datation errors per profile
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1.000
0.5000
0.000
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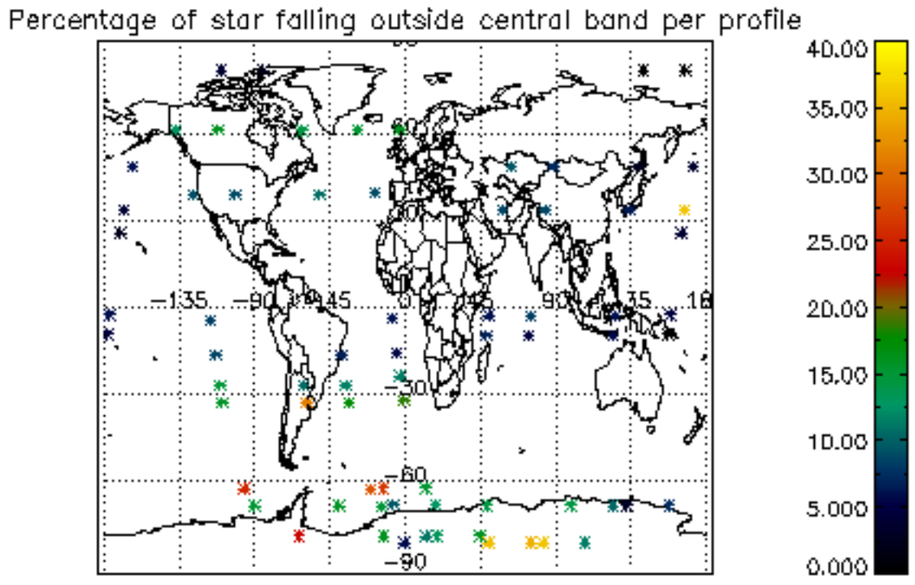
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of star falling outside central band per profile
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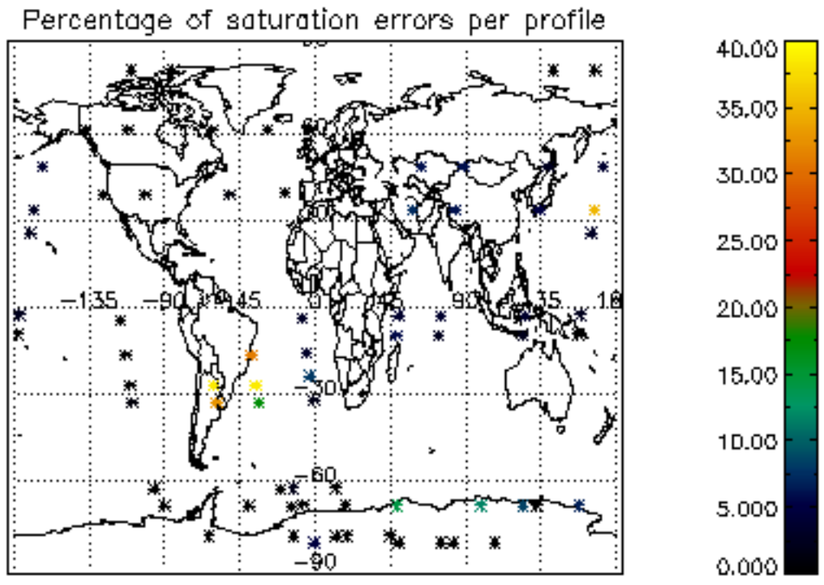
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of saturation errors per profile
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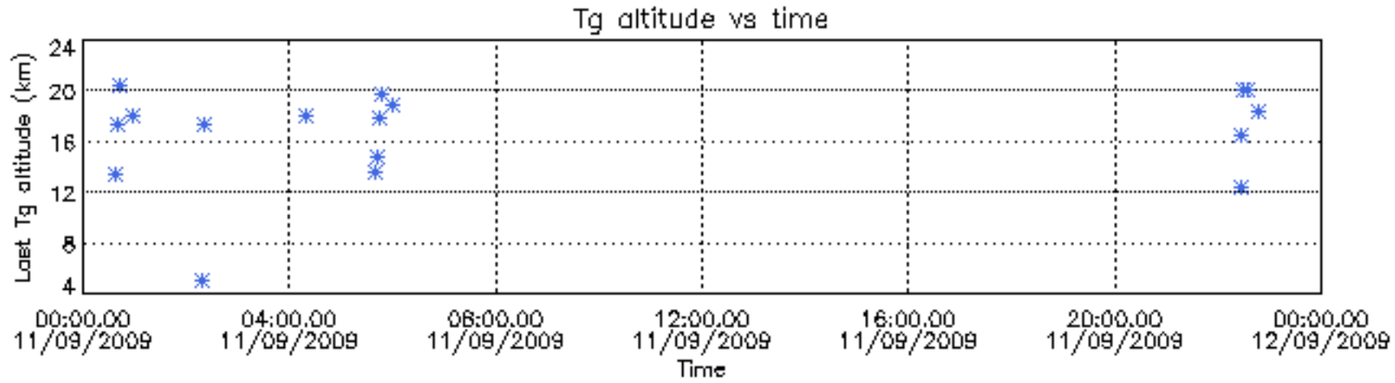
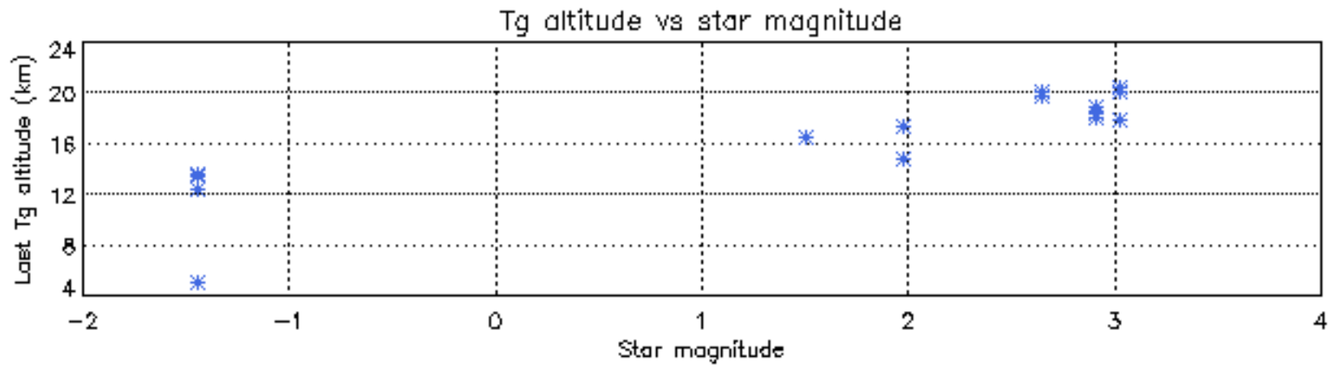
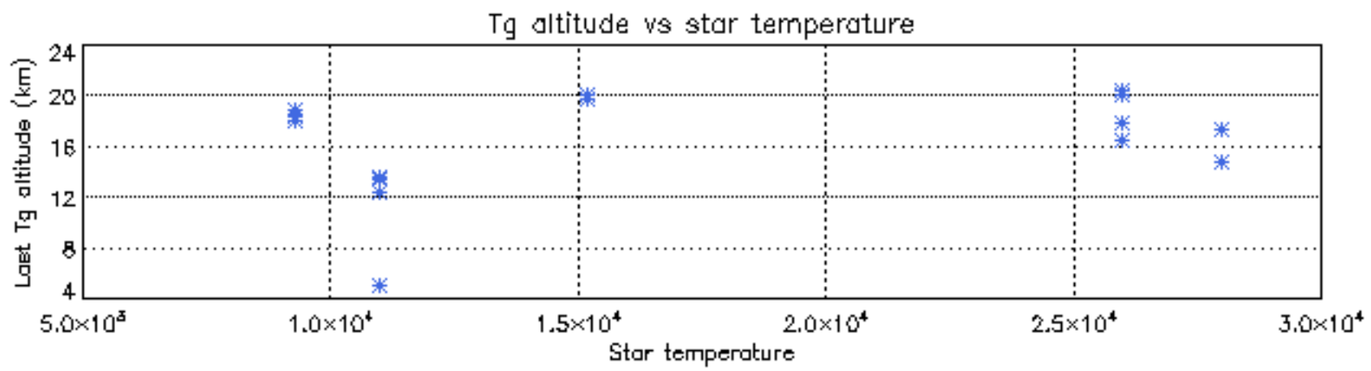
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

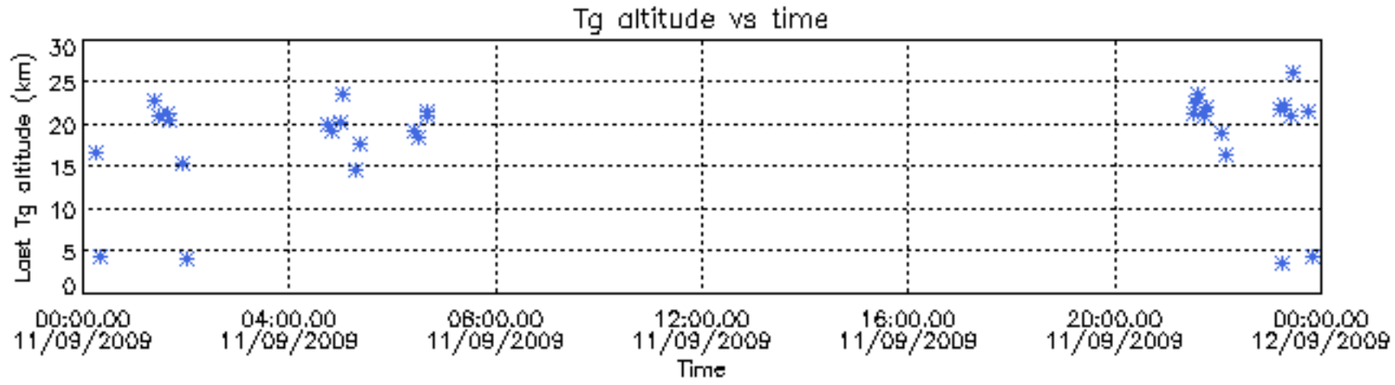
Tangent altitude at which the star is lost

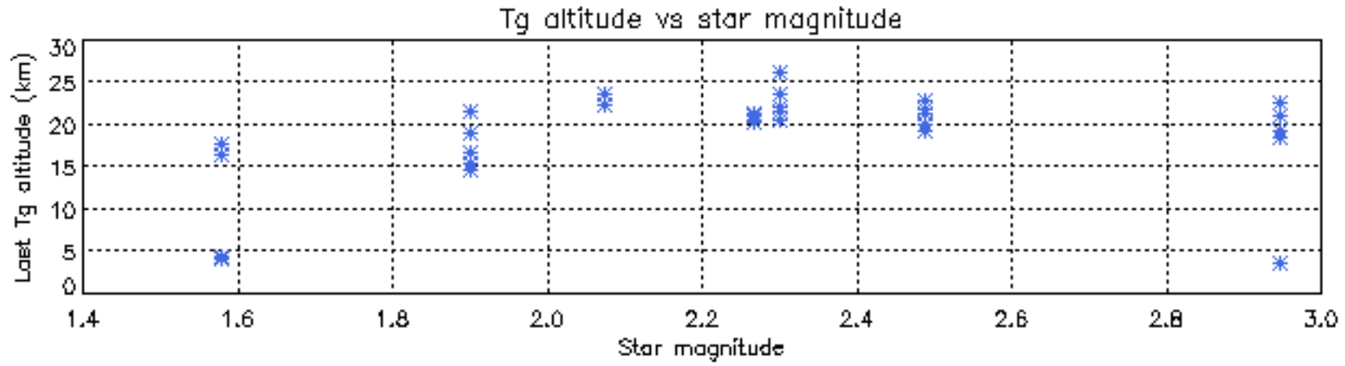


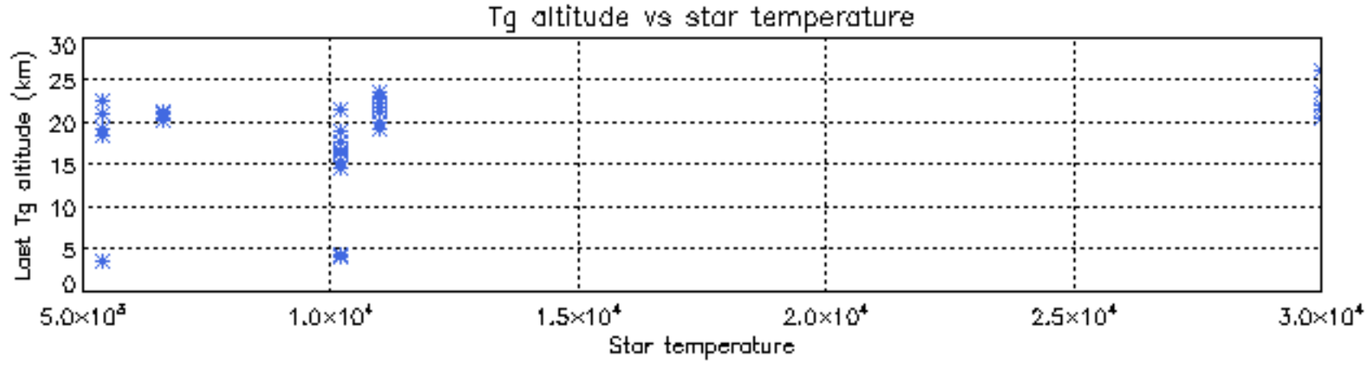




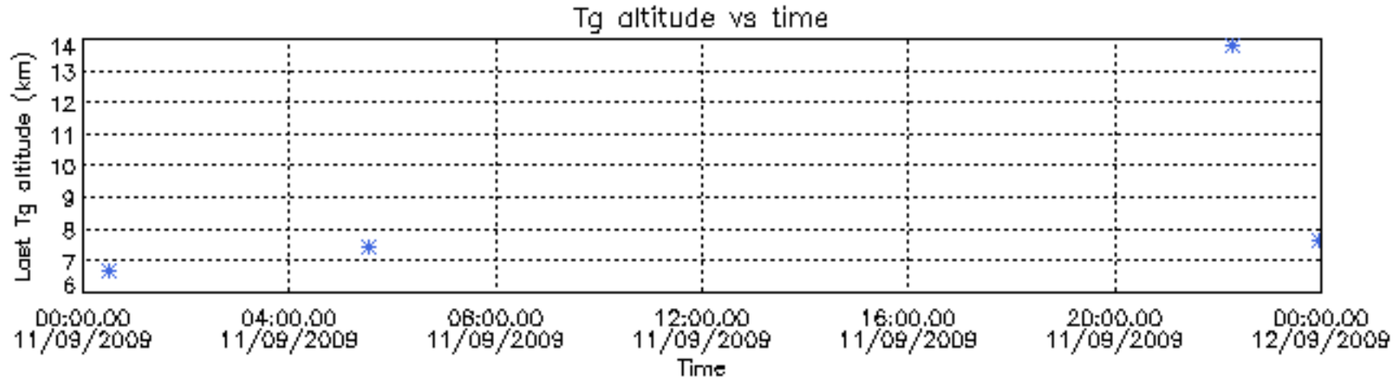
Tangent altitude at which the star is lost

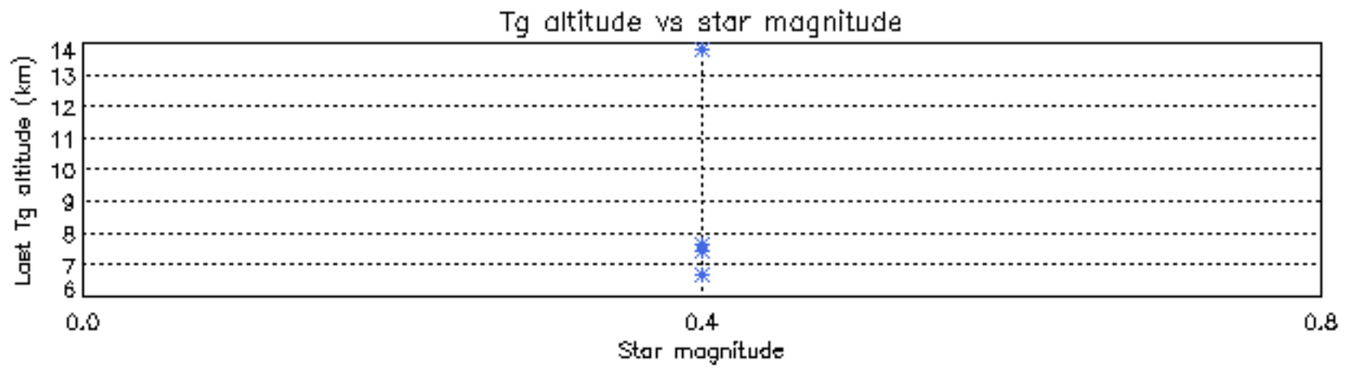


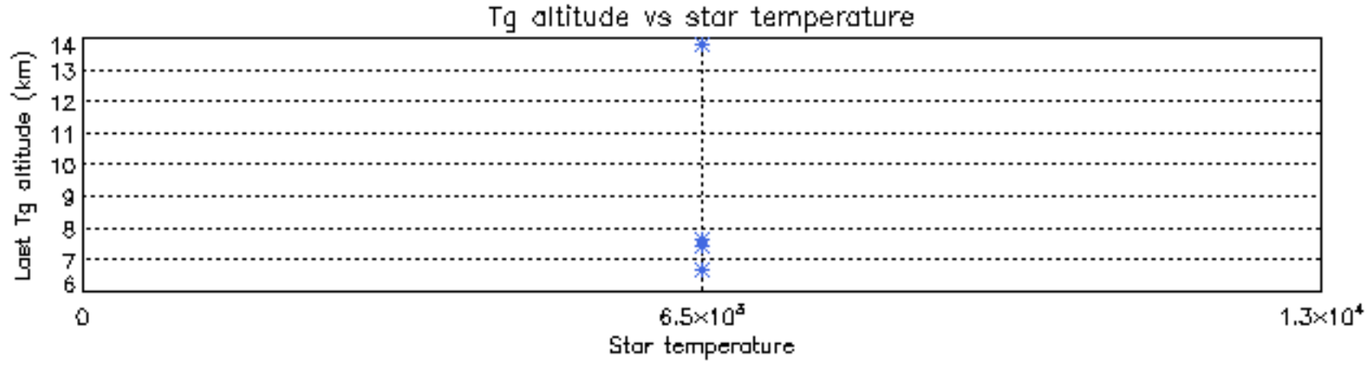


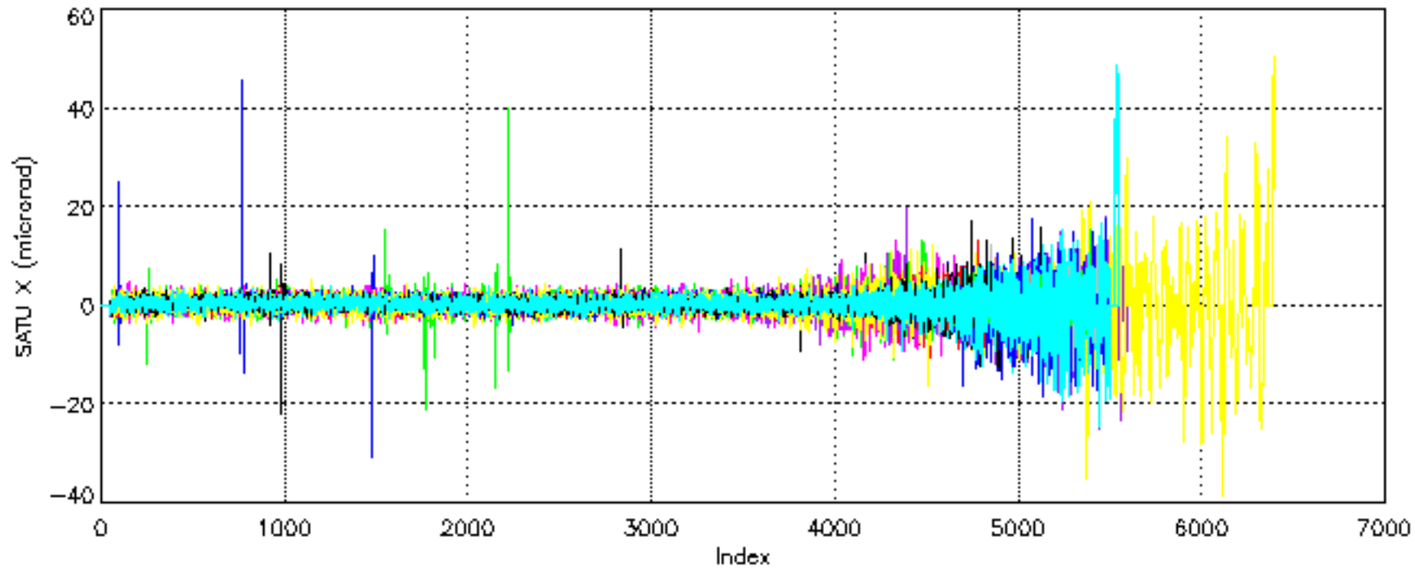


Tangent altitude at which the star is lost





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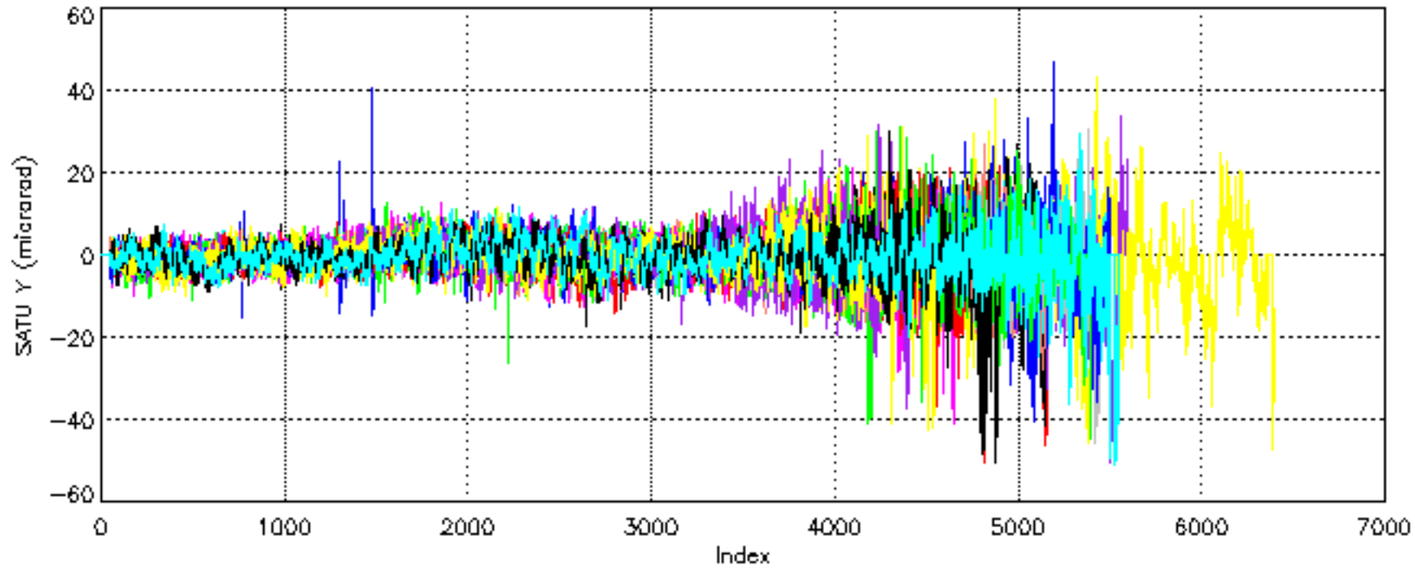
40
20
0
−20
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


60
40
20
0
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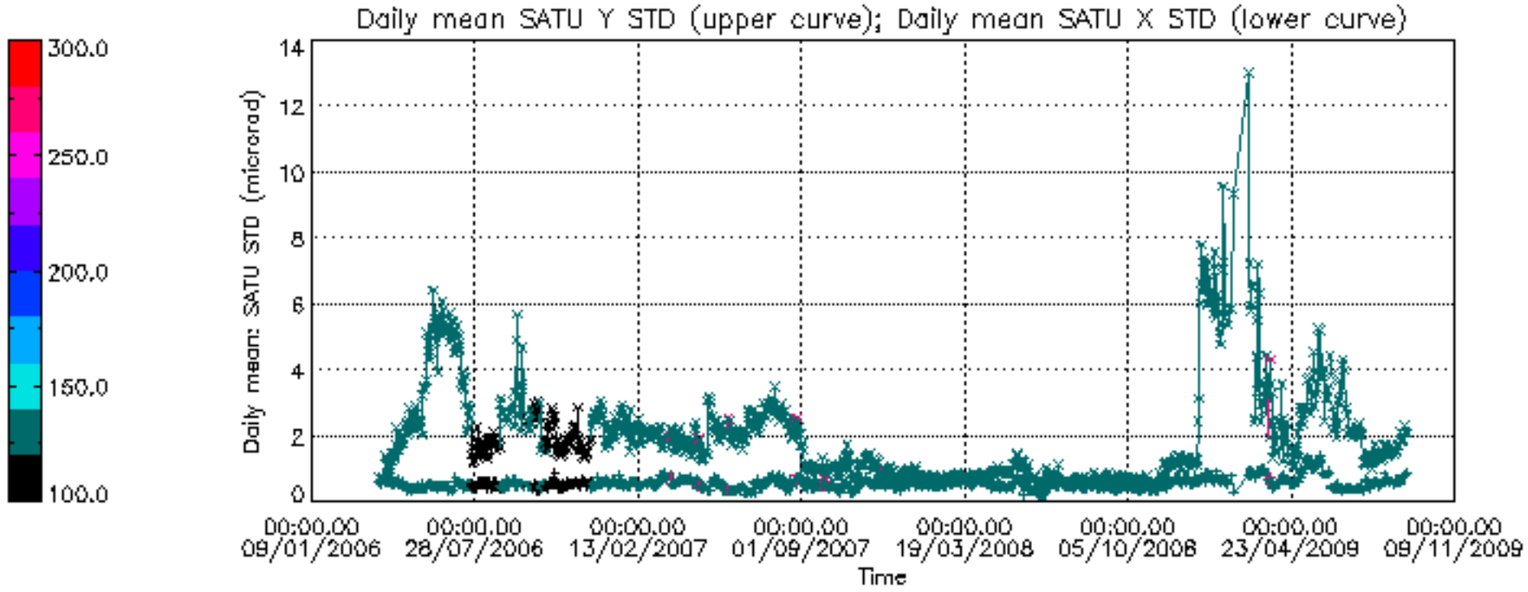
−40
−60
SATU Y (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
00:00.00 09/01/2006
00:00.00 28/07/2006
00:00.00 13/02/2007
00:00.00 01/09/2007
00:00.00 19/03/2008
00:00.00 05/10/2008
00:00.00 23/04/2009
00:00.00 09/11/2009
Time

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   8; 2249.9; 01-SEP-2009 01:38:03; Bright;  47.5;   90; 54Alp Peg  ; 2.49; 11000;occ;  95;   0;39235
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   7; 2242.5; 02-SEP-2009 01:06:18; Bright;  69.0;   90; 54Alp Peg  ; 2.49; 11000;occ; 138;   0;39249
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  12; 4378.3; 02-SEP-2009 01:41:54; Bright;  48.5;  107; 37The Aur  ; 2.65; 11000;occ;  97;   0;39249
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  11; 4148.1; 02-SEP-2009 23:25:51; Bright;  58.5;    6; 13Alp Aur  ; 0.08;  3400;occ; 117;   0;39262
  12; 4378.6; 02-SEP-2009 23:29:42; Bright;  49.5;  107; 37The Aur  ; 2.65; 11000;occ;  99;   0;39262
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   5; 4146.6; 03-SEP-2009 09:29:25; Bright;  63.5;    6; 13Alp Aur  ; 0.08;  3400;occ; 127;   0;39268
   6; 4698.2; 03-SEP-2009 09:38:37; Dark  ;  63.5;  151; 13Mu  Gem  ; 2.89;  3000;occ; 127;   0;39268
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   9; 5407.3; 04-SEP-2009 12:40:00; Dark  ;  51.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 102;   0;39284
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   8; 4813.7; 04-SEP-2009 14:10:43; Dark  ;  53.5;   44; 24Gam Gem  ; 1.93; 11000;occ; 107;   0;39285
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   6; 4201.0; 04-SEP-2009 15:41:06; Bright;  49.0;   42; 34Bet Aur  ; 1.90; 10200;occ;  98;   0;39286
   7; 4378.8; 04-SEP-2009 15:44:04; Bright;  50.0;  107; 37The Aur  ; 2.65; 11000;occ; 100;   0;39286
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  13; 5861.2; 04-SEP-2009 16:08:46; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;39286
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   4; 3235.1; 04-SEP-2009 17:05:36; Bright;  46.5;   76; 27Gam Cas  ; 2.30; 30000;occ;  93;   0;39287
   5; 4140.9; 04-SEP-2009 17:20:42; Bright;  36.0;    6; 13Alp Aur  ; 0.08;  3400;occ;  72;   0;39287
   6; 4200.9; 04-SEP-2009 17:21:42; Bright;  50.5;   42; 34Bet Aur  ; 1.90; 10200;occ; 101;   0;39287
   7; 4379.0; 04-SEP-2009 17:24:40; Bright;  51.0;  107; 37The Aur  ; 2.65; 11000;occ; 102;   0;39287
   8; 4705.1; 04-SEP-2009 17:30:06; Dark  ;  64.5;  151; 13Mu  Gem  ; 2.89;  3000;occ; 129;   0;39287
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  14; 6587.0; 04-SEP-2009 18:01:28; Dark  ;  55.0;  157;   The1Eri  ; 2.91;  9300;occ; 110;   0;39287
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   6; 4200.8; 04-SEP-2009 19:02:18; Bright;  48.0;   42; 34Bet Aur  ; 1.90; 10200;occ;  96;   0;39288
   7; 4379.0; 04-SEP-2009 19:05:16; Bright;  50.5;  107; 37The Aur  ; 2.65; 11000;occ; 101;   0;39288
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   4;  555.4; 05-SEP-2009 00:43:56; Dark  ;  55.0;  157;   The1Eri  ; 2.91;  9300;occ; 110;   0;39292
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   6; 2223.1; 05-SEP-2009 01:11:44; Bright;  65.0;   90; 54Alp Peg  ; 2.49; 11000;occ; 130;   0;39292
   7; 2476.2; 05-SEP-2009 01:15:57; Bright;  39.5;  164; 44Eta Peg  ; 2.95;  5400;occ;  79;   0;39292
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   7; 2223.0; 05-SEP-2009 02:52:19; Bright;  44.0;   90; 54Alp Peg  ; 2.49; 11000;occ;  88;   0;39293
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   6;  588.2; 06-SEP-2009 23:41:14; Dark  ;  54.5;  157;   The1Eri  ; 2.91;  9300;occ; 109;   0;39320
   7; 1009.0; 06-SEP-2009 23:48:15; Dark  ;  48.5;   84;   Alp Phe  ; 2.40;  4500;occ;  97;   0;39320
   8; 2212.7; 07-SEP-2009 00:08:19; Bright;  49.0;   90; 54Alp Peg  ; 2.49; 11000;occ;  98;   0;39320
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   7; 4378.0; 08-SEP-2009 22:00:34; Bright;  42.0;  107; 37The Aur  ; 2.65; 11000;occ;  84;   0;39347
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   6; 3148.3; 14-SEP-2009 08:26:46; Bright;  43.0;   76; 27Gam Cas  ; 2.30; 30000;occ;  86;   0;39425
   7; 4171.7; 14-SEP-2009 08:43:49; Bright;  42.0;   42; 34Bet Aur  ; 1.90; 10200;occ;  84;   0;39425
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   8; 4170.6; 14-SEP-2009 15:26:12; Bright;  31.0;   42; 34Bet Aur  ; 1.90; 10200;occ;  62;   0;39429
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  13; 2544.4; 15-SEP-2009 04:23:53; Bright;  47.0;   58; 21Alp And  ; 2.07; 11000;occ;  94;   0;39437
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   4; 2412.2; 15-SEP-2009 21:07:40; Bright;  40.0;   93; 53Bet Peg  ; 2.52;  3100;occ;  80;   0;39447
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   5; 3031.0; 15-SEP-2009 09:33:48; Bright;  40.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  81;   0;39440
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   7; 3136.2; 15-SEP-2009 19:39:08; Bright;  43.0;   76; 27Gam Cas  ; 2.30; 30000;occ;  86;   0;39446
   8; 4481.3; 15-SEP-2009 20:01:33; Bright;  60.5;   24; 66Alp Gem  ; 1.58; 10200;occ; 121;   0;39446
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   3; 2409.9; 16-SEP-2009 12:13:01; Bright; 41.0;   93; 53Bet Peg ; 2.52; 3100;occ; 82;   0;39456
   4; 2531.3; 16-SEP-2009 12:15:02; Bright; 46.0;   58; 21Alp And ; 2.07; 11000;occ; 92;   0;39456
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   6; 4482.7; 16-SEP-2009 12:47:34; Bright; 43.5;   24; 66Alp Gem ; 1.58; 10200;occ; 87;   0;39456
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  11; 6051.7; 16-SEP-2009 13:13:43; Dark ; 51.0; 108;   Alp Col ; 2.65; 15200;occ; 102;   0;39456
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   9; 5007.9; 16-SEP-2009 14:36:55; Dark ; 56.0;   8; 10Alp CMi ; 0.40; 6500;occ; 112;   0;39457
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   4; 2409.4; 16-SEP-2009 15:34:12; Bright; 41.0;   93; 53Bet Peg ; 2.52; 3100;occ; 82;   0;39458
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   3;-1031.4; 16-SEP-2009 04:33:16; Dark ; 52.5;   8; 10Alp CMi ; 0.40; 6500;occ; 105;   0;39451
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   3; -116.0; 17-SEP-2009 00:55:43; Dark  ;  59.5;    0;           ; 0.00;     0;occ; 119;   0;39463
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   6;  744.1; 17-SEP-2009 02:50:38; Dark  ;  55.0;  157;   The1Eri  ; 2.91;  9300;occ; 110;   0;39465
   7; 1529.8; 17-SEP-2009 03:03:44; Dark  ;  57.5;   52; 16Bet Cet  ; 2.04;  4500;occ; 115;   0;39465
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  12; 3019.9; 17-SEP-2009 03:28:34; Bright;  40.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  81;   0;39465
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   6;   27.0; 17-SEP-2009 04:19:17; Dark  ;  51.0;  108;   Alp Col  ; 2.65; 15200;occ; 102;   0;39466
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   4; 2518.9; 17-SEP-2009 20:06:13; Bright;  44.5;   58; 21Alp And  ; 2.07; 11000;occ;  89;   0;39475
   5; 3015.7; 17-SEP-2009 20:14:29; Bright;  41.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  82;   0;39475
   6; 3120.1; 17-SEP-2009 20:16:14; Bright;  42.5;   76; 27Gam Cas  ; 2.30; 30000;occ;  85;   0;39475
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   9; 2405.1; 17-SEP-2009 21:44:55; Bright;  41.5;   93; 53Bet Peg  ; 2.52;  3100;occ;  83;   0;39476
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  11; 3015.0; 17-SEP-2009 21:55:05; Bright;  41.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  82;   0;39476
  12; 3119.5; 17-SEP-2009 21:56:49; Bright;  42.5;   76; 27Gam Cas  ; 2.30; 30000;occ;  85;   0;39476
  13; 4485.5; 17-SEP-2009 22:19:35; Bright;  55.5;   24; 66Alp Gem  ; 1.58; 10200;occ; 111;   0;39476
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  10; 5925.6; 17-SEP-2009 10:59:24; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;39469
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   4; 3011.5; 18-SEP-2009 13:00:24; Bright; 43.0;   74; 11Bet Cas ; 2.27; 6600;occ; 86;   0;39485
   5; 3114.8; 18-SEP-2009 13:02:07; Bright; 43.0;   76; 27Gam Cas ; 2.30; 30000;occ; 86;   0;39485
   6; 4486.8; 18-SEP-2009 13:24:59; Bright; 64.0;   24; 66Alp Gem ; 1.58; 10200;occ; 128;   0;39485
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  11; 6088.8; 18-SEP-2009 13:51:41; Dark ; 53.5; 108;   Alp Col ; 2.65; 15200;occ; 107;   0;39485
  12; 6800.6; 18-SEP-2009 14:03:33; Dark ; 53.5; 157;   The1Eri ; 2.91; 9300;occ; 107;   0;39485
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   3; 2403.2; 18-SEP-2009 14:30:52; Bright; 42.5;   93; 53Bet Peg ; 2.52; 3100;occ; 85;   0;39486
   4; 2512.4; 18-SEP-2009 14:32:41; Bright; 46.5;   58; 21Alp And ; 2.07; 11000;occ; 93;   0;39486
   5; 3011.2; 18-SEP-2009 14:41:00; Bright; 40.5;   74; 11Bet Cas ; 2.27; 6600;occ; 81;   0;39486
   6; 3114.3; 18-SEP-2009 14:42:43; Bright; 42.5;   76; 27Gam Cas ; 2.30; 30000;occ; 85;   0;39486
   7; 4486.9; 18-SEP-2009 15:05:35; Bright; 45.0;   24; 66Alp Gem ; 1.58; 10200;occ; 90;   0;39486
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  11; 5942.2; 18-SEP-2009 15:29:51; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;39486
  12; 6090.1; 18-SEP-2009 15:32:19; Dark ; 52.0; 108;   Alp Col ; 2.65; 15200;occ; 104;   0;39486
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   9; 5594.0; 18-SEP-2009 17:04:39; Dark ; 61.0;   1; 9Alp CMa ;-1.44; 11000;occ; 122;   0;39487
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  11; 5943.2; 18-SEP-2009 17:10:28; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;39487
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   3; 2404.5; 18-SEP-2009 17:52:05; Bright; 39.0;   93; 53Bet Peg ; 2.52; 3100;occ; 78;   0;39488
   4; 2511.1; 18-SEP-2009 17:53:52; Bright; 44.0;   58; 21Alp And ; 2.07; 11000;occ; 88;   0;39488
   5; 3010.3; 18-SEP-2009 18:02:11; Bright; 40.5;   74; 11Bet Cas ; 2.27; 6600;occ; 81;   0;39488
   6; 3113.2; 18-SEP-2009 18:03:54; Bright; 42.5;   76; 27Gam Cas ; 2.30; 30000;occ; 85;   0;39488
   7; 4487.1; 18-SEP-2009 18:26:48; Bright; 46.0;   24; 66Alp Gem ; 1.58; 10200;occ; 92;   0;39488
   8; 5025.5; 18-SEP-2009 18:35:46; Dark ; 57.5;   8; 10Alp CMi ; 0.40; 6500;occ; 115;   0;39488
   9; 5595.1; 18-SEP-2009 18:45:16; Dark ; 60.5;   1; 9Alp CMa ;-1.44; 11000;occ; 121;   0;39488
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  11; 5944.2; 18-SEP-2009 18:51:05; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;39488
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   3; 2409.2; 18-SEP-2009 19:32:46; Bright; 34.0;   93; 53Bet Peg ; 2.52; 3100;occ; 68;   0;39489
   4; 2510.3; 18-SEP-2009 19:34:27; Bright; 44.5;   58; 21Alp And ; 2.07; 11000;occ; 89;   0;39489
   5; 3009.8; 18-SEP-2009 19:42:46; Bright; 41.0;   74; 11Bet Cas ; 2.27; 6600;occ; 82;   0;39489
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  10; 2507.5; 19-SEP-2009 03:57:23; Bright; 46.0;   58; 21Alp And ; 2.07; 11000;occ; 92;   0;39494
  11; 3007.9; 19-SEP-2009 04:05:44; Bright; 40.5;   74; 11Bet Cas ; 2.27; 6600;occ; 81;   0;39494
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   9; 2243.5; 19-SEP-2009 05:33:35; Bright;  46.0;  140; 88Gam Peg  ; 2.83; 26000;occ;  92;   0;39495
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  11; 3007.4; 19-SEP-2009 05:46:19; Bright;  40.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  81;   0;39495
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   3;  -75.9; 19-SEP-2009 21:40:55; Dark  ;  59.5;    0;           ; 0.00;     0;occ; 119;   0;39504
   4;   78.1; 19-SEP-2009 21:43:29; Dark  ;  52.5;  108;   Alp Col  ; 2.65; 15200;occ; 105;   0;39505
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  11; 6811.3; 19-SEP-2009 08:30:19; Dark  ;  52.5;  157;   The1Eri  ; 2.91;  9300;occ; 105;   0;39496
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   8; 1536.0; 20-SEP-2009 04:50:11; Dark  ;  54.0;   52; 16Bet Cet  ; 2.04;  4500;occ; 108;   0;39509
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   7; 5623.0; 20-SEP-2009 09:19:30; Dark  ;  62.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 124;   0;39511
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   7; 2230.8; 21-SEP-2009 02:49:32; Bright;  45.0;  140; 88Gam Peg  ; 2.83; 26000;occ;  90;   0;39522
   8; 2491.8; 21-SEP-2009 02:53:53; Bright;  44.0;   58; 21Alp And  ; 2.07; 11000;occ;  88;   0;39522
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   6;  102.2; 21-SEP-2009 03:54:40; Dark  ;  54.0;  108;   Alp Col  ; 2.65; 15200;occ; 108;   0;39523
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   8; 1538.2; 21-SEP-2009 04:18:36; Dark  ;  53.5;   52; 16Bet Cet  ; 2.04;  4500;occ; 107;   0;39523
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   5;  -56.7; 21-SEP-2009 05:32:37; Dark  ;  59.0;    0;            ; 0.00;     0;occ; 118;   0;39523
   6;  103.5; 21-SEP-2009 05:35:17; Dark  ;  54.5;  108;   Alp Col  ; 2.65; 15200;occ; 109;   0;39524
   7;  800.3; 21-SEP-2009 05:46:54; Dark  ;  53.5;  157;   The1Eri  ; 2.91;  9300;occ; 107;   0;39524
   8; 1538.4; 21-SEP-2009 05:59:12; Dark  ;  53.5;   52; 16Bet Cet  ; 2.04;  4500;occ; 107;   0;39524
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   6; 4493.1; 21-SEP-2009 21:53:50; Bright;  50.0;   24; 66Alp Gem  ; 1.58; 10200;occ; 100;   0;39533
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   2; -275.3; 21-SEP-2009 22:14:57; Dark  ;  50.5;   23; 21Eps CMa  ; 1.50; 26000;occ; 101;   0;39533
   3;  -46.4; 21-SEP-2009 22:18:46; Dark  ;  59.0;    0;            ; 0.00;     0;occ; 118;   0;39533
   4;  117.1; 21-SEP-2009 22:21:30; Dark  ;  53.5;  108;   Alp Col  ; 2.65; 15200;occ; 107;   0;39534
   5;  809.3; 21-SEP-2009 22:33:02; Dark  ;  52.0;  157;   The1Eri  ; 2.91;  9300;occ; 104;   0;39534
   6; 1539.6; 21-SEP-2009 22:45:12; Dark  ;  53.5;   52; 16Bet Cet  ; 2.04;  4500;occ; 107;   0;39534
   7; 2225.5; 21-SEP-2009 22:56:38; Bright;  44.0;  140; 88Gam Peg  ; 2.83; 26000;occ;  88;   0;39534
   8; 2485.7; 21-SEP-2009 23:00:58; Bright;  42.5;   58; 21Alp And  ; 2.07; 11000;occ;  85;   0;39534
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  11; 4493.3; 21-SEP-2009 23:34:26; Bright;  47.5;   24; 66Alp Gem  ; 1.58; 10200;occ;  95;   0;39534
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   2; -274.4; 21-SEP-2009 23:55:34; Dark  ;  50.5;   23; 21Eps CMa  ; 1.50; 26000;occ; 101;   0;39534
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   7; 2225.2; 22-SEP-2009 00:37:14; Bright;  45.0;  140; 88Gam Peg  ; 2.83; 26000;occ;  90;   0;39535
   8; 2485.0; 22-SEP-2009 00:41:33; Bright;  45.0;   58; 21Alp And  ; 2.07; 11000;occ;  90;   0;39535
   9; 2991.5; 22-SEP-2009 00:50:00; Bright;  40.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  80;   0;39535
  10; 3089.1; 22-SEP-2009 00:51:38; Bright;  41.5;   76; 27Gam Cas  ; 2.30; 30000;occ;  83;   0;39535
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   8; 5816.4; 22-SEP-2009 20:03:40; Dark  ;  49.5;  117;   Pi  Pup  ; 2.71;  3800;occ;  99;   0;39546
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   3; 2459.8; 25-SEP-2009 22:34:40; Bright;  34.0;   58; 21Alp And  ; 2.07; 11000;occ;  68;   0;39591
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   3; 3061.3; 26-SEP-2009 00:25:17; Bright;  37.0;   76; 27Gam Cas  ; 2.30; 30000;occ;  74;   0;39592
   4; 4503.1; 26-SEP-2009 00:49:19; Bright;  33.5;   24; 66Alp Gem  ; 1.58; 10200;occ;  67;   0;39592
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   3;  200.2; 26-SEP-2009 01:18:12; Dark  ;  55.0;  108;   Alp Col  ; 2.65; 15200;occ; 110;   0;39593
   4;  859.5; 26-SEP-2009 01:29:11; Dark  ;  45.5;  157;   The1Eri  ; 2.91;  9300;occ;  91;   0;39593
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   7; 2458.9; 26-SEP-2009 01:55:50; Bright;  25.0;   58; 21Alp And  ; 2.07; 11000;occ;  50;   0;39593
   8; 2715.3; 26-SEP-2009 02:00:07; Bright;  51.5;   53; 43Bet And  ; 2.05;  3300;occ; 103;   0;39593
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   7; 2199.5; 26-SEP-2009 23:39:18; Bright;  37.0;  140; 88Gam Peg  ; 2.83; 26000;occ;  74;   0;39606
   8; 2453.7; 26-SEP-2009 23:43:32; Bright;  37.0;   58; 21Alp And  ; 2.07; 11000;occ;  74;   0;39606
   9; 2704.0; 26-SEP-2009 23:47:42; Bright;  44.5;   53; 43Bet And  ; 2.05;  3300;occ;  89;   0;39606
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  12; 6912.3; 27-SEP-2009 11:01:26; Dark ; 41.5; 157;   The1Eri ; 2.91; 9300;occ; 83;   0;39612
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   6; 4505.3; 27-SEP-2009 12:01:55; Bright; 34.0;   24; 66Alp Gem ; 1.58; 10200;occ; 68;   0;39613
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   3; 2450.2; 27-SEP-2009 16:29:28; Bright;  35.5;   58; 21Alp And  ; 2.07; 11000;occ;  71;   0;39616
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   3; 2435.9; 30-SEP-2009 18:15:34; Bright; 35.0;   58; 21Alp And ; 2.07; 11000;occ; 70;   0;39660
   4; 2662.7; 30-SEP-2009 18:19:21; Bright; 42.0;   53; 43Bet And ; 2.05; 3300;occ; 84;   0;39660
   5; 2946.9; 30-SEP-2009 18:24:05; Bright; 34.5;   68; 18Alp Cas ; 2.22; 4500;occ; 69;   0;39660
   6; 3033.2; 30-SEP-2009 18:25:31; Bright; 34.5;   76; 27Gam Cas ; 2.30; 30000;occ; 69;   0;39660
   7; 4512.4; 30-SEP-2009 18:50:11; Bright; 37.0;   24; 66Alp Gem ; 1.58; 10200;occ; 74;   0;39660
   8; 4600.6; 30-SEP-2009 18:51:39; Bright; 36.5;   17; 78Bet Gem ; 1.16; 4500;occ; 73;   0;39660
   9; 5160.7; 30-SEP-2009 19:00:59; Dark ; 36.0;   8; 10Alp CMi ; 0.40; 6500;occ; 72;   0;39660
  10; 5584.8; 30-SEP-2009 19:08:03; Dark ; 34.5; 132; 15Rho Pup ; 2.80; 6900;occ; 69;   0;39660
  11; 5800.3; 30-SEP-2009 19:11:39; Dark ; 40.0;   88; 31Eta CMa ; 2.45; 20000;occ; 80;   0;39660
  12; 5904.0; 30-SEP-2009 19:13:22; Dark ; 44.5;   23; 21Eps CMa ; 1.50; 26000;occ; 89;   0;39660
  13; 6129.9; 30-SEP-2009 19:17:08; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;39660
  14; 6337.0; 30-SEP-2009 19:20:35; Dark ; 52.0; 108;   Alp Col ; 2.65; 15200;occ; 104;   0;39660
  15; 6949.1; 30-SEP-2009 19:30:47; Dark ; 40.0; 157;   The1Eri ; 2.91; 9300;occ; 80;   0;39660
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   1; 1556.7; 30-SEP-2009 19:41:31; Dark ; 34.5;   52; 16Bet Cet ; 2.04; 4500;occ; 69;   0;39661
   2; 2186.0; 30-SEP-2009 19:52:00; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70;   0;39661
   3; 2435.7; 30-SEP-2009 19:56:10; Bright; 35.0;   58; 21Alp And ; 2.07; 11000;occ; 70;   0;39661
   4; 2661.9; 30-SEP-2009 19:59:56; Bright; 42.0;   53; 43Bet And ; 2.05; 3300;occ; 84;   0;39661
   5; 2946.5; 30-SEP-2009 20:04:41; Bright; 35.0;   68; 18Alp Cas ; 2.22; 4500;occ; 70;   0;39661

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 8; 4600.7; 30-SEP-2009 20:32:15; Bright;  36.5;   17; 78Bet Gem  ; 1.16;  4500;occ;  73;   0;39661
 9; 5161.7; 30-SEP-2009 20:41:36; Dark  ;  36.0;    8; 10Alp CMi  ; 0.40;  6500;occ;  72;   0;39661
10; 5585.2; 30-SEP-2009 20:48:39; Dark  ;  35.0;  132; 15Rho Pup  ; 2.80;  6900;occ;  70;   0;39661
11; 5801.6; 30-SEP-2009 20:52:16; Dark  ;  40.0;   88; 31Eta CMa  ; 2.45; 20000;occ;  80;   0;39661
12; 5905.4; 30-SEP-2009 20:54:00; Dark  ;  44.0;   23; 21Eps CMa  ; 1.50; 26000;occ;  88;   0;39661
13; 6131.0; 30-SEP-2009 20:57:45; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;39661
14; 6338.5; 30-SEP-2009 21:01:13; Dark  ;  52.0;  108;   Alp Col  ; 2.65; 15200;occ; 104;   0;39661
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