

GOMOS Daily Report 13-DEC-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	16DEC2009 05:12:46
Data source version	GOMOS/5.00L04
Start time of products	13DEC2009 00:01:06
Stop time of products	13DEC2009 23:59:26
Store outputs in DB	Yes
Nb of level 1b prods	157
Nb of prods with errors	2

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

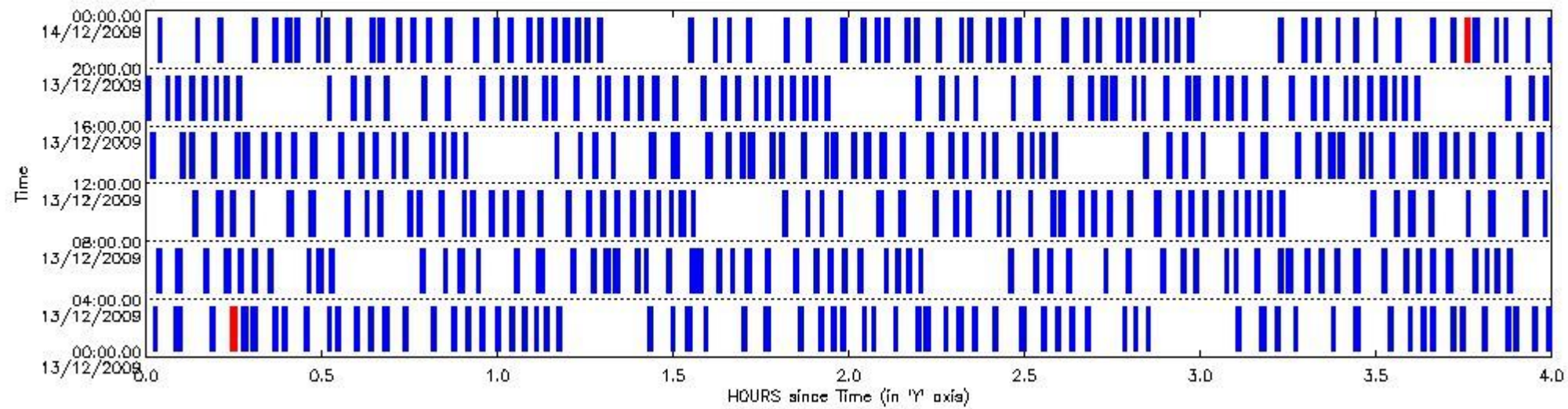
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
13-DEC-2009 00:14:22	46GamHya	169	40708
13-DEC-2009 23:45:08	4GamCrv	100	40722

2.4 Summary of processed GOM_TRA_1P products

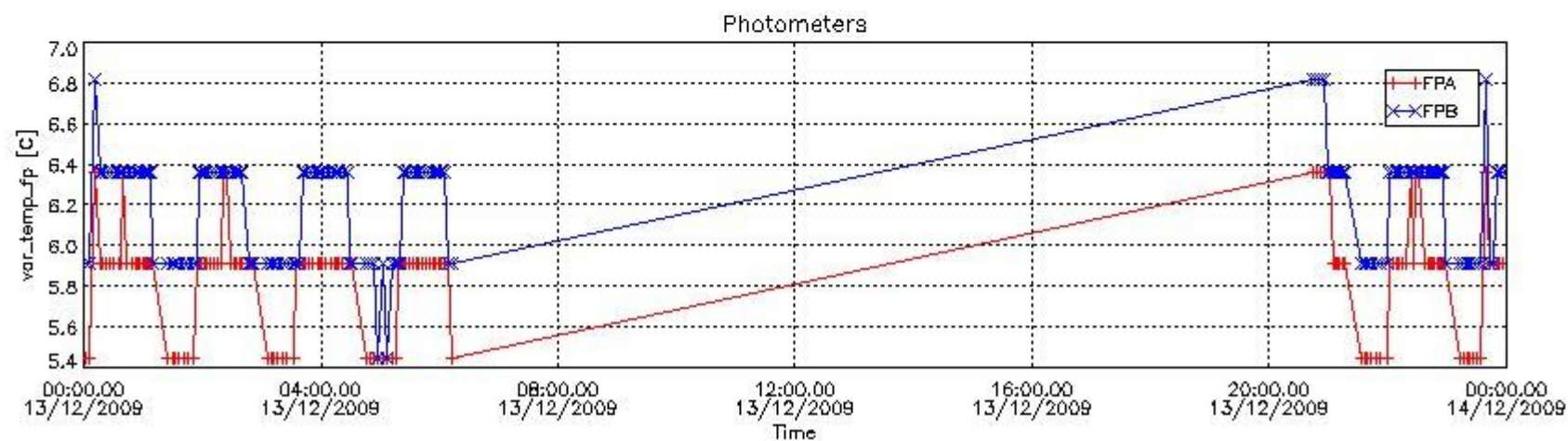
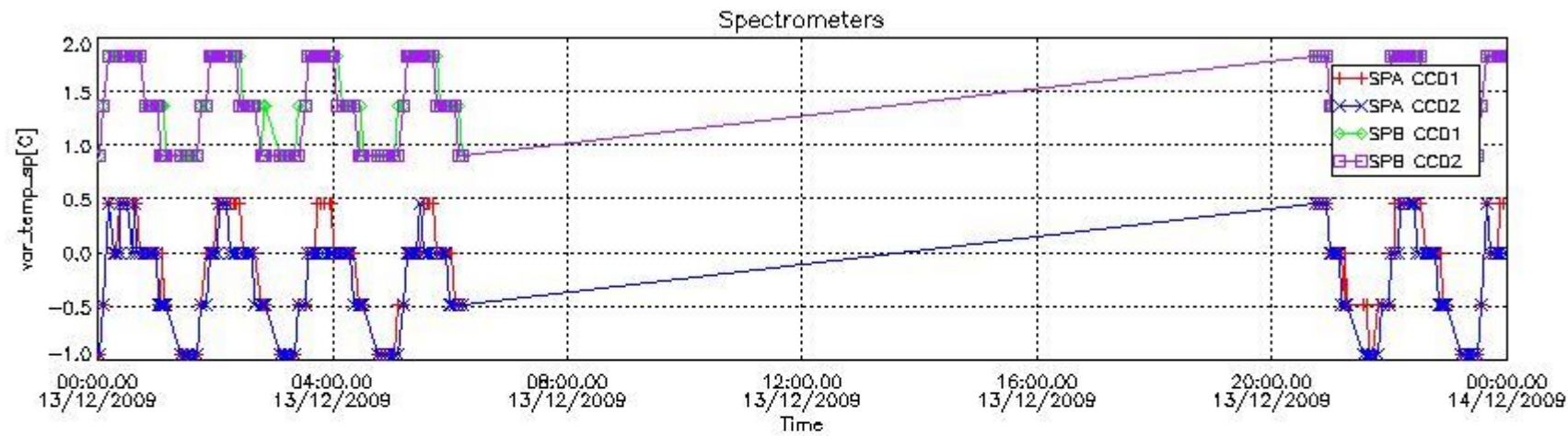
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091213_000106_000000392085_00073_40708_7927.N1	13-DEC-2009 00:01:06	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	40708	No
2	GOM_TRA_1PNPDE20091213_000450_000000702085_00073_40708_7928.N1	13-DEC-2009 00:04:50	Bright	70.000	138	47Eps Vir	2.8280	4700.0	140	40708	No
3	GOM_TRA_1PNPDE20091213_001045_000000492085_00073_40708_7931.N1	13-DEC-2009 00:10:45	Twilight_and_stray	48.500	15	67Alp Vir	0.97600	28000.	97	40708	Yes
4	GOM_TRA_1PNPDE20091213_001620_000000552085_00073_40708_7932.N1	13-DEC-2009 00:16:20	Dark	55.000	100	4Gam Crv	2.5800	13100.	110	40708	No
5	GOM_TRA_1PNPDE20091213_001756_000000582085_00073_40708_7933.N1	13-DEC-2009 00:17:56	Dark	57.500	171	2Eps Crv	3.0010	4250.0	115	40708	No
6	GOM_TRA_1PNPDE20091213_002139_000000432085_00073_40708_7934.N1	13-DEC-2009 00:21:39	Dark	43.000	64	Gam Cen	2.2000	10600.	86	40708	No
7	GOM_TRA_1PNPDE20091213_002314_000000442085_00074_40709_7935.N1	13-DEC-2009 00:23:14	Dark	43.500	99	Del Cen	2.5750	26000.	87	40709	No
8	GOM_TRA_1PNPDE20091213_002656_000000472085_00074_40709_7936.N1	13-DEC-2009 00:26:56	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	40709	No
9	GOM_TRA_1PNPDE20091213_003054_000000402085_00074_40709_7937.N1	13-DEC-2009 00:30:54	Dark	39.500	71	Iot Car	2.2460	7700.0	79	40709	No

10	GOM_TRA_1PNPDE20091213_003530_000000522085_00074_40709_7938.N1	13-DEC-2009 00:35:30	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	40709	No
11	GOM_TRA_1PNPDE20091213_003751_000000522085_00074_40709_7939.N1	13-DEC-2009 00:37:51	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	40709	No
12	GOM_TRA_1PNPDE20091213_004027_000000542085_00074_40709_7940.N1	13-DEC-2009 00:40:27	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	40709	No
13	GOM_TRA_1PNPDE20091213_004349_000000532085_00074_40709_7941.N1	13-DEC-2009 00:43:49	Straylight	53.000	23	21Eps CMa	1.5020	26000.	106	40709	No
14	GOM_TRA_1PNPDE20091213_004835_000000532085_00074_40709_7942.N1	13-DEC-2009 00:48:35	Straylight	52.500	47	2Bet CMa	1.9760	28000.	105	40709	No
15	GOM_TRA_1PNPDE20091213_005213_000000472085_00074_40709_7943.N1	13-DEC-2009 00:52:13	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	40709	No
16	GOM_TRA_1PNPDE20091213_005434_000000522085_00074_40709_7944.N1	13-DEC-2009 00:54:34	Straylight	51.500	30	46Eps Ori	1.6940	30000.	103	40709	No
17	GOM_TRA_1PNPDE20091213_005659_000000502085_00074_40709_7945.N1	13-DEC-2009 00:56:59	Twilight	50.000	27	24Gam Ori	1.6360	26000.	100	40709	No
18	GOM_TRA_1PNPDE20091213_005938_000000492085_00074_40709_7946.N1	13-DEC-2009 00:59:38	Twilight	48.500	13	87Alp Tau	0.86700	3800.0	97	40709	No
19	GOM_TRA_1PNPDE20091213_010208_000000462085_00074_40709_7947.N1	13-DEC-2009 01:02:08	Bright	45.500	176	23Zet Tau	3.0200	22000.	91	40709	No
20	GOM_TRA_1PNPDE20091213_010410_000000452085_00074_40709_7948.N1	13-DEC-2009 01:04:10	Bright	45.000	28	12Bet Tau	1.6500	15200.	90	40709	No
21	GOM_TRA_1PNPDE20091213_010614_000000362085_00074_40709_7949.N1	13-DEC-2009 01:06:14	Bright	35.500	149	45Eps Per	2.8880	30000.	71	40709	No
22	GOM_TRA_1PNPDE20091213_010757_000000482085_00074_40709_7950.N1	13-DEC-2009 01:07:57	Bright	47.500	107	37The Aur	2.6490	11000.	95	40709	No
23	GOM_TRA_1PNPDE20091213_011005_000000442085_00074_40709_7951.N1	13-DEC-2009 01:10:05	Bright	43.500	42	34Bet Aur	1.9000	10200.	87	40709	No
24	GOM_TRA_1PNPDE20091213_012535_000000492085_00074_40709_7952.N1	13-DEC-2009 01:25:35	Bright	49.000	36	50Alp UMa	1.8000	6300.0	98	40709	No
25	GOM_TRA_1PNPDE20091213_012935_000000412085_00074_40709_7953.N1	13-DEC-2009 01:29:35	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	40709	No
26	GOM_TRA_1PNPDE20091213_013204_000000572085_00074_40709_7954.N1	13-DEC-2009 01:32:04	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	40709	No
27	GOM_TRA_1PNPDE20091213_013518_000000372085_00074_40709_7955.N1	13-DEC-2009 01:35:18	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	40709	No
28	GOM_TRA_1PNPDE20091213_014142_000000472085_00074_40709_7956.N1	13-DEC-2009 01:41:42	Bright	46.500	111	8Eta Boo	2.6800	6000.0	93	40709	No
29	GOM_TRA_1PNPDE20091213_014526_000000702085_00074_40709_7957.N1	13-DEC-2009 01:45:26	Bright	69.500	138	47Eps Vir	2.8280	4700.0	139	40709	No
30	GOM_TRA_1PNPDE20091213_015122_000000502085_00074_40709_7921.N1	13-DEC-2009 01:51:22	Twilight	49.500	15	67Alp Vir	0.97600	28000.	99	40709	No
31	GOM_TRA_1PNPDE20091213_015451_000000472085_00074_40709_7922.N1	13-DEC-2009 01:54:51	Twilight	46.500	169	46Gam Hya	2.9910	4700.0	93	40709	No
32	GOM_TRA_1PNPDE20091213_015657_000000522085_00074_40709_7923.N1	13-DEC-2009 01:56:57	Dark	51.500	100	4Gam Crv	2.5800	13100.	103	40709	No
33	GOM_TRA_1PNPDE20091213_015833_000000572085_00074_40709_7924.N1	13-DEC-2009 01:58:33	Dark	56.500	171	2Eps Crv	3.0010	4250.0	113	40709	No
34	GOM_TRA_1PNPDE20091213_020215_000000412085_00074_40709_7925.N1	13-DEC-2009 02:02:15	Dark	41.000	64	Gam Cen	2.2000	10600.	82	40709	No
35	GOM_TRA_1PNPDE20091213_020350_000000412085_00075_40710_7926.N1	13-DEC-2009 02:03:50	Dark	41.000	99	Del Cen	2.5750	26000.	82	40710	No
36	GOM_TRA_1PNPDE20091213_020732_000000442085_00075_40710_7927.N1	13-DEC-2009 02:07:32	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	40710	No
37	GOM_TRA_1PNPDE20091213_021131_000000412085_00075_40710_7928.N1	13-DEC-2009 02:11:31	Dark	40.500	71	lot Car	2.2460	7700.0	81	40710	No
38	GOM_TRA_1PNPDE20091213_021606_000000462085_00075_40710_7929.N1	13-DEC-2009 02:16:06	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40710	No
39	GOM_TRA_1PNPDE20091213_021828_000000552085_00075_40710_7930.N1	13-DEC-2009 02:18:28	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	40710	No
40	GOM_TRA_1PNPDE20091213_022104_000000562085_00075_40710_7931.N1	13-DEC-2009 02:21:04	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	40710	No
41	GOM_TRA_1PNPDE20091213_022425_000000572085_00075_40710_7932.N1	13-DEC-2009 02:24:25	Straylight	56.500	23	21Eps CMa	1.5020	26000.	113	40710	No
42	GOM_TRA_1PNPDE20091213_022911_000000522085_00075_40710_7933.N1	13-DEC-2009 02:29:11	Straylight	51.500	47	2Bet CMa	1.9760	28000.	103	40710	No
43	GOM_TRA_1PNPDE20091213_023249_000000492085_00075_40710_7934.N1	13-DEC-2009 02:32:49	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	40710	No
44	GOM_TRA_1PNPDE20091213_023510_000000502085_00075_40710_7935.N1	13-DEC-2009 02:35:10	Straylight	49.500	30	46Eps Ori	1.6940	30000.	99	40710	No
45	GOM_TRA_1PNPDE20091213_023735_000000512085_00075_40710_7936.N1	13-DEC-2009 02:37:35	Twilight	50.500	27	24Gam Ori	1.6360	26000.	101	40710	No
46	GOM_TRA_1PNPDE20091213_024014_000000492085_00075_40710_7937.N1	13-DEC-2009 02:40:14	Twilight	48.500	13	87Alp Tau	0.86700	3800.0	97	40710	No
47	GOM_TRA_1PNPDE20091213_024649_000000372085_00075_40710_7938.N1	13-DEC-2009 02:46:49	Bright	36.500	149	45Eps Per	2.8880	30000.	73	40710	No
48	GOM_TRA_1PNPDE20091213_024833_000000452085_00075_40710_7939.N1	13-DEC-2009 02:48:33	Bright	45.000	107	37The Aur	2.6490	11000.	90	40710	No
49	GOM_TRA_1PNPDE20091213_025040_000000452085_00075_40710_7940.N1	13-DEC-2009 02:50:40	Bright	44.500	42	34Bet Aur	1.9000	10200.	89	40710	No
50	GOM_TRA_1PNPDE20091213_030610_000000472085_00075_40710_8082.N1	13-DEC-2009 03:06:10	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40710	No
51	GOM_TRA_1PNPDE20091213_031011_000000602085_00075_40710_8083.N1	13-DEC-2009 03:10:11	Bright	60.000	32	77Eps UMa	1.7630	11000.	120	40710	No
52	GOM_TRA_1PNPDE20091213_031240_000000572085_00075_40710_8084.N1	13-DEC-2009 03:12:40	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	40710	No
53	GOM_TRA_1PNPDE20091213_031554_000000362085_00075_40710_8085.N1	13-DEC-2009 03:15:54	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	40710	No
54	GOM_TRA_1PNPDE20091213_032218_000000472085_00075_40710_8086.N1	13-DEC-2009 03:22:18	Bright	46.500	111	8Eta Boo	2.6800	6000.0	93	40710	No
55	GOM_TRA_1PNPDE20091213_032603_000000702085_00075_40710_8087.N1	13-DEC-2009 03:26:03	Bright	70.000	138	47Eps Vir	2.8280	4700.0	140	40710	No
56	GOM_TRA_1PNPDE20091213_033158_000000502085_00075_40710_8088.N1	13-DEC-2009 03:31:58	Twilight	49.500	15	67Alp Vir	0.97600	28000.	99	40710	No
57	GOM_TRA_1PNPDE20091213_033527_000000442085_00075_40710_8089.N1	13-DEC-2009 03:35:27	Twilight	43.500	169	46Gam Hya	2.9910	4700.0	87	40710	No
58	GOM_TRA_1PNPDE20091213_033734_000000542085_00075_40710_8090.N1	13-DEC-2009 03:37:34	Dark	53.500	100	4Gam Crv	2.5800	13100.	107	40710	No
59	GOM_TRA_1PNPDE20091213_033910_000000572085_00075_40710_8091.N1	13-DEC-2009 03:39:10	Dark	56.500	171	2Eps Crv	3.0010	4250.0	113	40710	No
60	GOM_TRA_1PNPDE20091213_034252_000000442085_00075_40710_8092.N1	13-DEC-2009 03:42:52	Dark	44.000	64	Gam Cen	2.2000	10600.	88	40710	No
61	GOM_TRA_1PNPDE20091213_034427_000000412085_00076_40711_8093.N1	13-DEC-2009 03:44:27	Dark	40.500	99	Del Cen	2.5750	26000.	81	40711	No
62	GOM_TRA_1PNPDE20091213_034809_000000452085_00076_40711_8094.N1	13-DEC-2009 03:48:09	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40711	No
63	GOM_TRA_1PNPDE20091213_035207_000000462085_00076_40711_8095.N1	13-DEC-2009 03:52:07	Dark	46.000	71	lot Car	2.2460	7700.0	92	40711	No
64	GOM_TRA_1PNPDE20091213_035643_000000462085_00076_40711_8096.N1	13-DEC-2009 03:56:43	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40711	No
65	GOM_TRA_1PNPDE20091213_035904_000000452085_00076_40711_8097.N1	13-DEC-2009 03:59:04	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	40711	No
66	GOM_TRA_1PNPDE20091213_040140_000000552085_00076_40711_8098.N1	13-DEC-2009 04:01:40	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	40711	No
67	GOM_TRA_1PNPDE20091213_040502_000000552085_00076_40711_8099.N1	13-DEC-2009 04:05:02	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	40711	No
68	GOM_TRA_1PNPDE20091213_040948_000000532085_00076_40711_8100.N1	13-DEC-2009 04:09:48	Straylight	52.500	47	2Bet CMa	1.9760	28000.	105	40711	No

69	GOM_TRA_1PNPDE20091213_041325_000000502085_00076_40711_8101.N1	13-DEC-2009 04:13:25	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	40711	No
70	GOM_TRA_1PNPDE20091213_041546_000000512085_00076_40711_8102.N1	13-DEC-2009 04:15:46	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	40711	No
71	GOM_TRA_1PNPDE20091213_041811_000000492085_00076_40711_8103.N1	13-DEC-2009 04:18:11	Twilight	49.000	27	24Gam Ori	1.6360	26000.	98	40711	No
72	GOM_TRA_1PNPDE20091213_042050_000000492085_00076_40711_8104.N1	13-DEC-2009 04:20:50	Twilight	49.000	13	87Alp Tau	0.86700	3800.0	98	40711	No
73	GOM_TRA_1PNPDE20091213_042726_000000362085_00076_40711_8105.N1	13-DEC-2009 04:27:26	Bright	35.500	149	45Eps Per	2.8880	30000.	71	40711	No
74	GOM_TRA_1PNPDE20091213_042908_000000592085_00076_40711_8106.N1	13-DEC-2009 04:29:08	Bright	58.500	107	37The Aur	2.6490	11000.	117	40711	No
75	GOM_TRA_1PNPDE20091213_043116_000000442085_00076_40711_8107.N1	13-DEC-2009 04:31:16	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	40711	No
76	GOM_TRA_1PNPDE20091213_044646_000000532085_00076_40711_8055.N1	13-DEC-2009 04:46:46	Bright	52.500	36	50Alp UMa	1.8000	6300.0	105	40711	No
77	GOM_TRA_1PNPDE20091213_045047_000000392085_00076_40711_8056.N1	13-DEC-2009 04:50:47	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	40711	No
78	GOM_TRA_1PNPDE20091213_045316_000000572085_00076_40711_8057.N1	13-DEC-2009 04:53:16	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	40711	No
79	GOM_TRA_1PNPDE20091213_045630_000000352085_00076_40711_8058.N1	13-DEC-2009 04:56:30	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	40711	No
80	GOM_TRA_1PNPDE20091213_050254_000000382085_00076_40711_8059.N1	13-DEC-2009 05:02:54	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	40711	No
81	GOM_TRA_1PNPDE20091213_050639_000000702085_00076_40711_8060.N1	13-DEC-2009 05:06:39	Bright	70.000	138	47Eps Vir	2.8280	4700.0	140	40711	No
82	GOM_TRA_1PNPDE20091213_051235_000000492085_00076_40711_8061.N1	13-DEC-2009 05:12:35	Twilight	49.000	15	67Alp Vir	0.97600	28000.	98	40711	No
83	GOM_TRA_1PNPDE20091213_051604_000000482085_00076_40711_8062.N1	13-DEC-2009 05:16:04	Twilight	47.500	169	46Gam Hya	2.9910	4700.0	95	40711	No
84	GOM_TRA_1PNPDE20091213_051811_000000552085_00076_40711_8063.N1	13-DEC-2009 05:18:11	Dark	54.500	100	4Gam Crv	2.5800	13100.	109	40711	No
85	GOM_TRA_1PNPDE20091213_051947_000000582085_00076_40711_8064.N1	13-DEC-2009 05:19:47	Dark	57.500	171	2Eps Crv	3.0010	4250.0	115	40711	No
86	GOM_TRA_1PNPDE20091213_052329_000000412085_00076_40711_8065.N1	13-DEC-2009 05:23:29	Dark	41.000	64	Gam Cen	2.2000	10600.	82	40711	No
87	GOM_TRA_1PNPDE20091213_052504_000000402085_00077_40712_8066.N1	13-DEC-2009 05:25:04	Dark	40.000	99	Del Cen	2.5750	26000.	80	40712	No
88	GOM_TRA_1PNPDE20091213_052846_000000452085_00077_40712_8067.N1	13-DEC-2009 05:28:46	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40712	No
89	GOM_TRA_1PNPDE20091213_053244_000000492085_00077_40712_8068.N1	13-DEC-2009 05:32:44	Dark	49.000	71	lot Car	2.2460	7700.0	98	40712	No
90	GOM_TRA_1PNPDE20091213_053720_000000502085_00077_40712_8069.N1	13-DEC-2009 05:37:20	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	40712	No
91	GOM_TRA_1PNPDE20091213_053941_000000462085_00077_40712_8070.N1	13-DEC-2009 05:39:41	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	40712	No
92	GOM_TRA_1PNPDE20091213_054217_000000562085_00077_40712_8071.N1	13-DEC-2009 05:42:17	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	40712	No
93	GOM_TRA_1PNPDE20091213_054538_000000552085_00077_40712_8072.N1	13-DEC-2009 05:45:38	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	40712	No
94	GOM_TRA_1PNPDE20091213_055024_000000532085_00077_40712_8073.N1	13-DEC-2009 05:50:24	Straylight	53.000	47	2Bet CMa	1.9760	28000.	106	40712	No
95	GOM_TRA_1PNPDE20091213_055401_000000512085_00077_40712_8074.N1	13-DEC-2009 05:54:01	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	40712	No
96	GOM_TRA_1PNPDE20091213_055622_000000492085_00077_40712_8075.N1	13-DEC-2009 05:56:22	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	40712	No
97	GOM_TRA_1PNPDE20091213_055846_000000492085_00077_40712_8076.N1	13-DEC-2009 05:58:46	Twilight	48.500	27	24Gam Ori	1.6360	26000.	97	40712	No
98	GOM_TRA_1PNPDE20091213_060126_000000502085_00077_40712_8077.N1	13-DEC-2009 06:01:26	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	40712	No
99	GOM_TRA_1PNPDE20091213_060557_000000462085_00077_40712_8078.N1	13-DEC-2009 06:05:57	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	40712	No
100	GOM_TRA_1PNPDE20091213_060802_000000362085_00077_40712_8079.N1	13-DEC-2009 06:08:02	Bright	35.500	149	45Eps Per	2.8880	30000.	71	40712	No
101	GOM_TRA_1PNPDE20091213_060943_000000472085_00077_40712_8080.N1	13-DEC-2009 06:09:43	Bright	47.000	107	37The Aur	2.6490	11000.	94	40712	No
102	GOM_TRA_1PNPDE20091213_061151_000000432085_00077_40712_8081.N1	13-DEC-2009 06:11:51	Bright	43.000	42	34Bet Aur	1.9000	10200.	86	40712	No
103	GOM_TRA_1PNPDE20091213_204508_000000482085_00086_40721_7989.N1	13-DEC-2009 20:45:08	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40721	No
104	GOM_TRA_1PNPDE20091213_204746_000000542085_00086_40721_7990.N1	13-DEC-2009 20:47:46	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	40721	No
105	GOM_TRA_1PNPDE20091213_205106_000000542085_00086_40721_7991.N1	13-DEC-2009 20:51:06	Straylight	54.000	23	21Eps CMa	1.5020	26000.	108	40721	No
106	GOM_TRA_1PNPDE20091213_205549_000000542085_00086_40721_7992.N1	13-DEC-2009 20:55:49	Straylight	54.000	47	2Bet CMa	1.9760	28000.	108	40721	No
107	GOM_TRA_1PNPDE20091213_205925_000000462085_00086_40721_7993.N1	13-DEC-2009 20:59:25	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	40721	No
108	GOM_TRA_1PNPDE20091213_210144_000000492085_00086_40721_7994.N1	13-DEC-2009 21:01:44	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	40721	No
109	GOM_TRA_1PNPDE20091213_210502_000000412085_00086_40721_7995.N1	13-DEC-2009 21:05:02	Twilight	41.000	14	58Alp Ori	0.87000	3000.0	82	40721	No
110	GOM_TRA_1PNPDE20091213_210649_000000552085_00086_40721_7996.N1	13-DEC-2009 21:06:49	Twilight	55.000	13	87Alp Tau	0.86700	3800.0	110	40721	No
111	GOM_TRA_1PNPDE20091213_210914_000000452085_00086_40721_7997.N1	13-DEC-2009 21:09:14	Bright	44.500	176	23Zet Tau	3.0200	22000.	89	40721	No
112	GOM_TRA_1PNPDE20091213_211116_000000622085_00086_40721_7998.N1	13-DEC-2009 21:11:16	Bright	62.000	28	12Bet Tau	1.6500	15200.	124	40721	No
113	GOM_TRA_1PNPDE20091213_211325_000000362085_00086_40721_7999.N1	13-DEC-2009 21:13:25	Bright	35.500	149	45Eps Per	2.8880	30000.	71	40721	No
114	GOM_TRA_1PNPDE20091213_211500_000000472085_00086_40721_8000.N1	13-DEC-2009 21:15:00	Bright	46.500	107	37The Aur	2.6490	11000.	93	40721	No
115	GOM_TRA_1PNPDE20091213_211709_000000442085_00086_40721_8001.N1	13-DEC-2009 21:17:09	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	40721	No
116	GOM_TRA_1PNPDE20091213_213241_000000512085_00086_40721_8002.N1	13-DEC-2009 21:32:41	Bright	50.500	36	50Alp UMa	1.8000	6300.0	101	40721	No
117	GOM_TRA_1PNPDE20091213_213645_000000452085_00086_40721_8003.N1	13-DEC-2009 21:36:45	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	40721	No
118	GOM_TRA_1PNPDE20091213_213915_000000412085_00086_40721_8004.N1	13-DEC-2009 21:39:15	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	40721	No
119	GOM_TRA_1PNPDE20091213_214231_000000402085_00086_40721_8005.N1	13-DEC-2009 21:42:31	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	40721	No
120	GOM_TRA_1PNPDE20091213_214857_000000392085_00086_40721_8006.N1	13-DEC-2009 21:48:57	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	40721	No
121	GOM_TRA_1PNPDE20091213_215245_000000482085_00086_40721_8007.N1	13-DEC-2009 21:52:45	Bright	48.000	138	47Eps Vir	2.8280	4700.0	96	40721	No
122	GOM_TRA_1PNPDE20091213_215841_000000522085_00086_40721_8100.N1	13-DEC-2009 21:58:41	Twilight	52.000	15	67Alp Vir	0.97600	28000.	104	40721	No
123	GOM_TRA_1PNPDE20091213_220210_000000472085_00086_40721_8101.N1	13-DEC-2009 22:02:10	Twilight	47.000	169	46Gam Hya	2.9910	4700.0	94	40721	No
124	GOM_TRA_1PNPDE20091213_220424_000000532085_00086_40721_8102.N1	13-DEC-2009 22:04:24	Dark	52.500	100	4Gam Crv	2.5800	13100.	105	40721	No
125	GOM_TRA_1PNPDE20091213_220559_000000552085_00086_40721_8103.N1	13-DEC-2009 22:05:59	Dark	54.500	171	2Eps Crv	3.0010	4250.0	109	40721	No
126	GOM_TRA_1PNPDE20091213_220934_000000422085_00086_40721_8104.N1	13-DEC-2009 22:09:34	Dark	42.000	64	Gam Cen	2.2000	10600.	84	40721	No
127	GOM_TRA_1PNPDE20091213_221110_000000412085_00087_40722_8105.N1	13-DEC-2009 22:11:10	Dark	40.500	99	Del Cen	2.5750	26000.	81	40722	No

128	GOM_TRA_1PNPDE20091213_221454_000000452085_00087_40722_8106.N1	13-DEC-2009 22:14:54	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40722	No
129	GOM_TRA_1PNPDE20091213_221850_000000412085_00087_40722_8107.N1	13-DEC-2009 22:18:50	Dark	41.000	71	lot Car	2.2460	7700.0	82	40722	No
130	GOM_TRA_1PNPDE20091213_222327_000000472085_00087_40722_8108.N1	13-DEC-2009 22:23:27	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40722	No
131	GOM_TRA_1PNPDE20091213_222544_000000542085_00087_40722_8109.N1	13-DEC-2009 22:25:44	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	40722	No
132	GOM_TRA_1PNPDE20091213_222822_000000552085_00087_40722_8110.N1	13-DEC-2009 22:28:22	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	40722	No
133	GOM_TRA_1PNPDE20091213_223142_000000552085_00087_40722_8111.N1	13-DEC-2009 22:31:42	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	40722	No
134	GOM_TRA_1PNPDE20091213_223625_000000532085_00087_40722_8112.N1	13-DEC-2009 22:36:25	Straylight	52.500	47	2Bet CMa	1.9760	28000.	105	40722	No
135	GOM_TRA_1PNPDE20091213_224000_000000482085_00087_40722_8113.N1	13-DEC-2009 22:40:00	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	40722	No
136	GOM_TRA_1PNPDE20091213_224220_000000492085_00087_40722_8114.N1	13-DEC-2009 22:42:20	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	40722	No
137	GOM_TRA_1PNPDE20091213_224537_000000482085_00087_40722_8115.N1	13-DEC-2009 22:45:37	Twilight	48.000	14	58Alp Ori	0.87000	3000.0	96	40722	No
138	GOM_TRA_1PNPDE20091213_224724_000000512085_00087_40722_8116.N1	13-DEC-2009 22:47:24	Twilight	51.000	13	87Alp Tau	0.86700	3800.0	102	40722	No
139	GOM_TRA_1PNPDE20091213_224949_000000442085_00087_40722_8117.N1	13-DEC-2009 22:49:49	Bright	44.000	176	23Zet Tau	3.0200	22000.	88	40722	No
140	GOM_TRA_1PNPDE20091213_225152_000000452085_00087_40722_8118.N1	13-DEC-2009 22:51:52	Bright	45.000	28	12Bet Tau	1.6500	15200.	90	40722	No
141	GOM_TRA_1PNPDE20091213_225400_000000352085_00087_40722_8119.N1	13-DEC-2009 22:54:00	Bright	34.500	149	45Eps Per	2.8880	30000.	69	40722	No
142	GOM_TRA_1PNPDE20091213_225536_000000482085_00087_40722_8120.N1	13-DEC-2009 22:55:36	Bright	47.500	107	37The Aur	2.6490	11000.	95	40722	No
143	GOM_TRA_1PNPDE20091213_225744_000000652085_00087_40722_8121.N1	13-DEC-2009 22:57:44	Bright	65.000	42	34Bet Aur	1.9000	10200.	130	40722	No
144	GOM_TRA_1PNPDE20091213_231316_000000462085_00087_40722_8122.N1	13-DEC-2009 23:13:16	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	40722	No
145	GOM_TRA_1PNPDE20091213_231720_000000462085_00087_40722_8123.N1	13-DEC-2009 23:17:20	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	40722	No
146	GOM_TRA_1PNPDE20091213_231951_000000392085_00087_40722_8124.N1	13-DEC-2009 23:19:51	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	40722	No
147	GOM_TRA_1PNPDE20091213_232307_000000382085_00087_40722_8125.N1	13-DEC-2009 23:23:07	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	40722	No
148	GOM_TRA_1PNPDE20091213_232617_000000362085_00087_40722_8126.N1	13-DEC-2009 23:26:17	Bright	35.500	83		2.3780	11000.	71	40722	No
149	GOM_TRA_1PNPDE20091213_232933_000000412085_00087_40722_8127.N1	13-DEC-2009 23:29:33	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	40722	No
150	GOM_TRA_1PNPDE20091213_233321_000000552085_00087_40722_8128.N1	13-DEC-2009 23:33:21	Bright	54.500	138	47Eps Vir	2.8280	4700.0	109	40722	No
151	GOM_TRA_1PNPDE20091213_233918_000000492085_00087_40722_8207.N1	13-DEC-2009 23:39:18	Twilight	49.000	15	67Alp Vir	0.97600	28000.	98	40722	Yes
152	GOM_TRA_1PNPDE20091213_234247_000000452085_00087_40722_8121.N1	13-DEC-2009 23:42:47	Twilight	44.500	169	46Gam Hya	2.9910	4700.0	89	40722	No
153	GOM_TRA_1PNPDE20091213_234636_000000592085_00087_40722_8122.N1	13-DEC-2009 23:46:36	Dark	59.000	171	2Eps Crv	3.0010	4250.0	118	40722	No
154	GOM_TRA_1PNPDE20091213_235010_000000402085_00087_40722_8123.N1	13-DEC-2009 23:50:10	Dark	40.000	64	Gam Cen	2.2000	10600.	80	40722	No
155	GOM_TRA_1PNPDE20091213_235146_000000422085_00088_40723_8124.N1	13-DEC-2009 23:51:46	Dark	41.500	99	Del Cen	2.5750	26000.	83	40723	No
156	GOM_TRA_1PNPDE20091213_235531_000000452085_00088_40723_8125.N1	13-DEC-2009 23:55:31	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40723	No
157	GOM_TRA_1PNPDE20091213_235926_000000412085_00088_40723_8126.N1	13-DEC-2009 23:59:26	Dark	41.000	71	lot Car	2.2460	7700.0	82	40723	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).

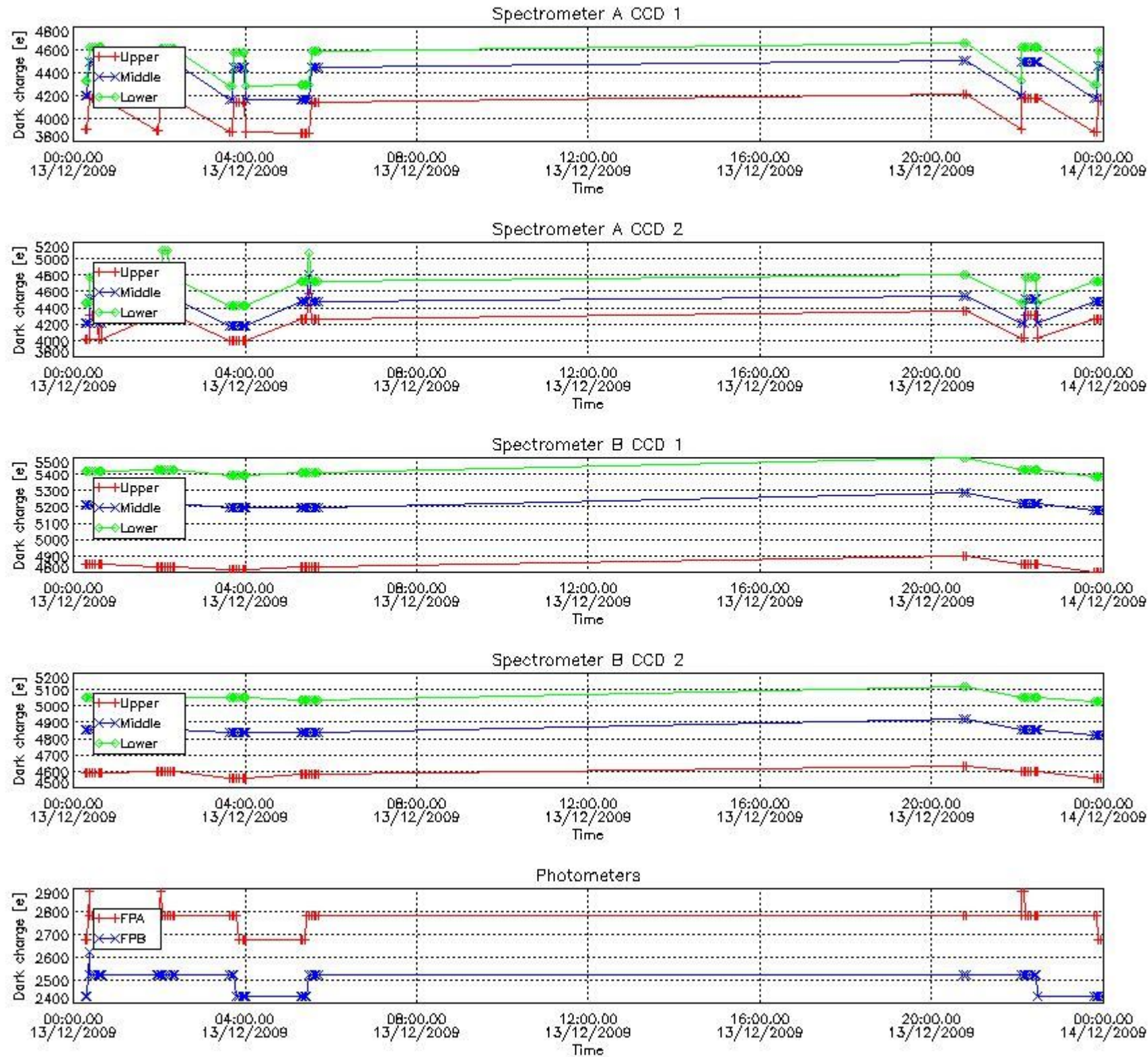
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091213_204508_000000482085_00086_40721_7989.N1	DC map used
GOM_TRA_1PNPDE20091213_204746_000000542085_00086_40721_7990.N1	DC map used
GOM_TRA_1PNPDE20091213_205106_000000542085_00086_40721_7991.N1	DC map used
GOM_TRA_1PNPDE20091213_205549_000000542085_00086_40721_7992.N1	DC map used
GOM_TRA_1PNPDE20091213_205925_000000462085_00086_40721_7993.N1	DC map used
GOM_TRA_1PNPDE20091213_210144_000000492085_00086_40721_7994.N1	DC map used
GOM_TRA_1PNPDE20091213_210502_000000412085_00086_40721_7995.N1	DC map used
GOM_TRA_1PNPDE20091213_210649_000000552085_00086_40721_7996.N1	DC map used
GOM_TRA_1PNPDE20091213_210914_000000452085_00086_40721_7997.N1	DC map used
GOM_TRA_1PNPDE20091213_211116_000000622085_00086_40721_7998.N1	DC map used
GOM_TRA_1PNPDE20091213_211325_000000362085_00086_40721_7999.N1	DC map used
GOM_TRA_1PNPDE20091213_211500_000000472085_00086_40721_8000.N1	DC map used
GOM_TRA_1PNPDE20091213_211709_000000442085_00086_40721_8001.N1	DC map used
GOM_TRA_1PNPDE20091213_213241_000000512085_00086_40721_8002.N1	DC map used

GOM_TRA_1PNPDE20091213_213645_000000452085_00086_40721_8003.N1	DC map used
GOM_TRA_1PNPDE20091213_213915_000000412085_00086_40721_8004.N1	DC map used
GOM_TRA_1PNPDE20091213_214231_000000402085_00086_40721_8005.N1	DC map used
GOM_TRA_1PNPDE20091213_214857_000000392085_00086_40721_8006.N1	DC map used
GOM_TRA_1PNPDE20091213_215245_000000482085_00086_40721_8007.N1	DC map used

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



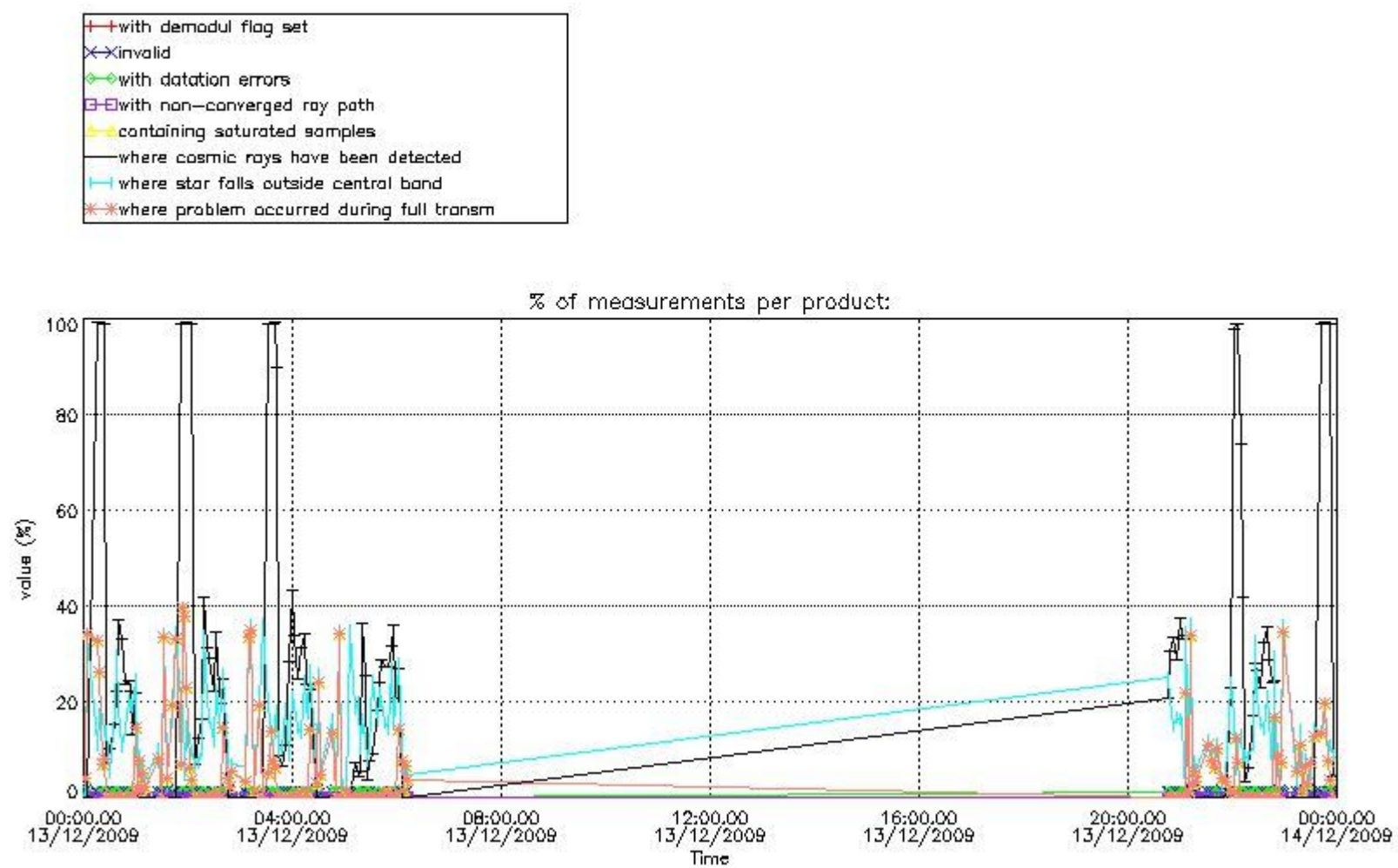
5. Demodulation flag and quality information monitoring

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.

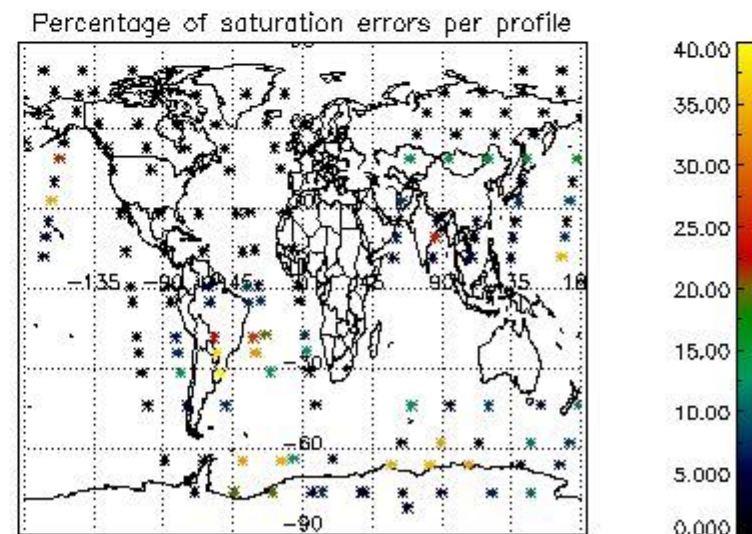
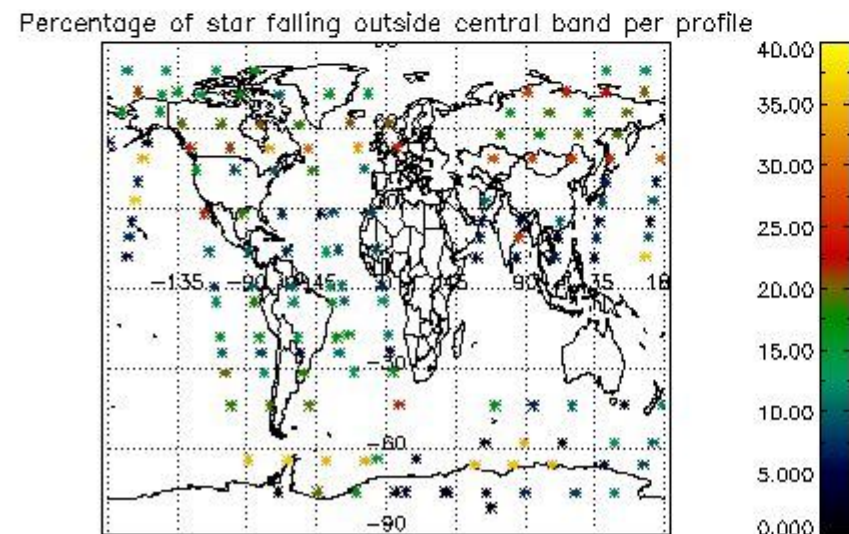
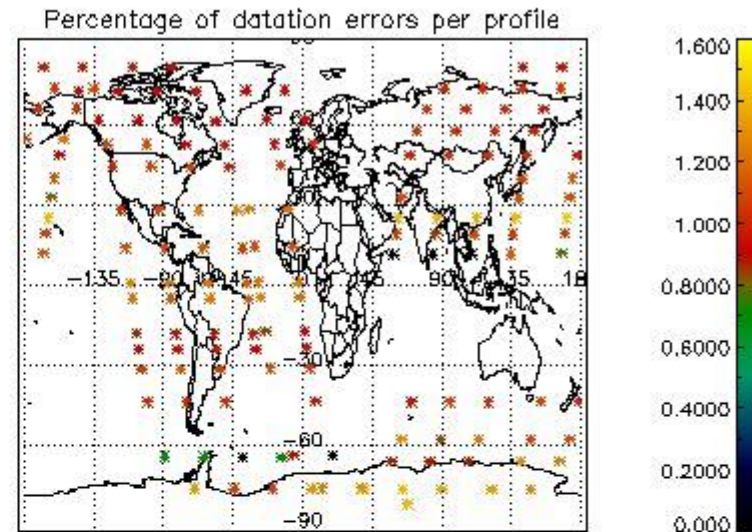
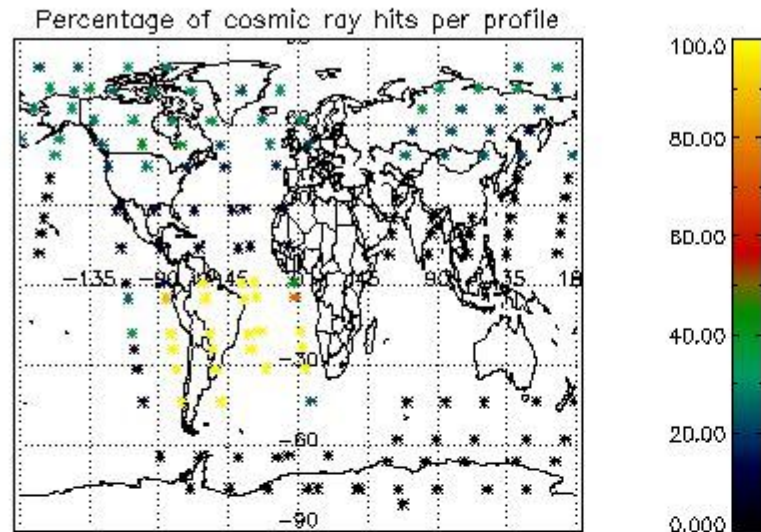
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	54.8387 %
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)



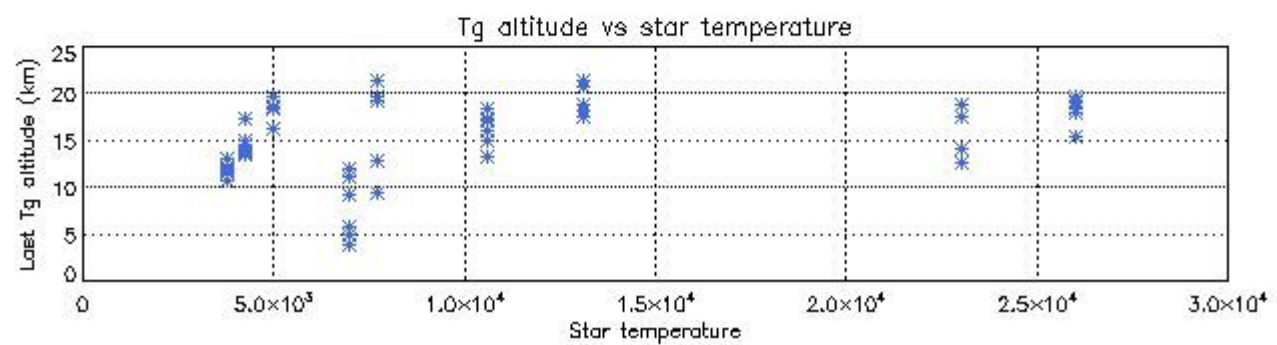
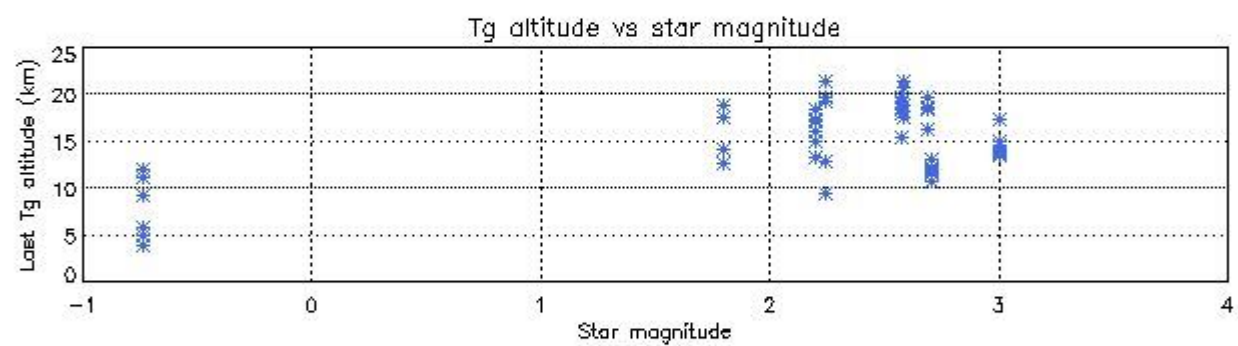
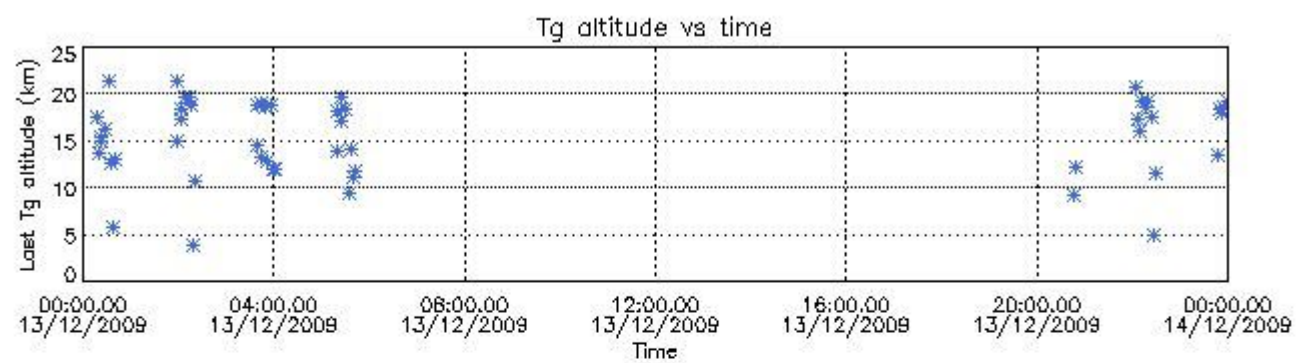
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.426	17.319	13.765
St. deviation:	4.1626	7.0298	1.8872
Maximum:	21.281	26.133	16.164
Minimum:	3.7639	3.5306	12.078
Number of data:	52.000	58.000	5.0000

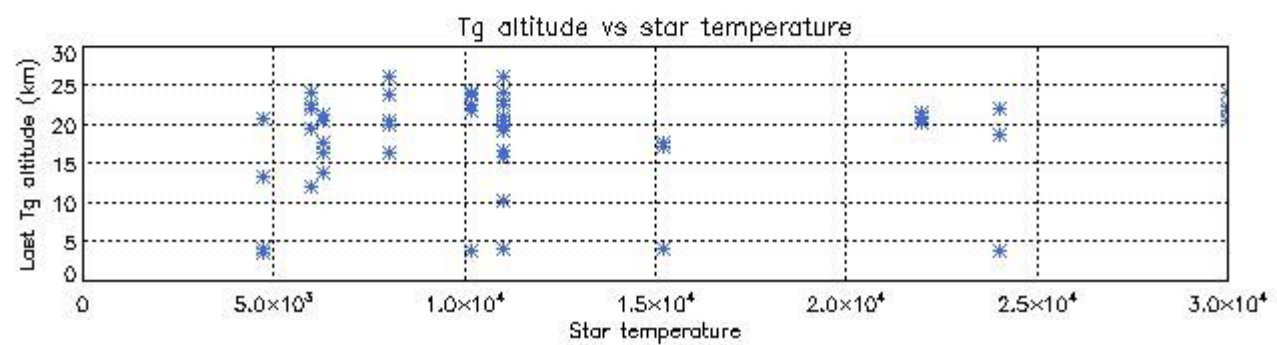
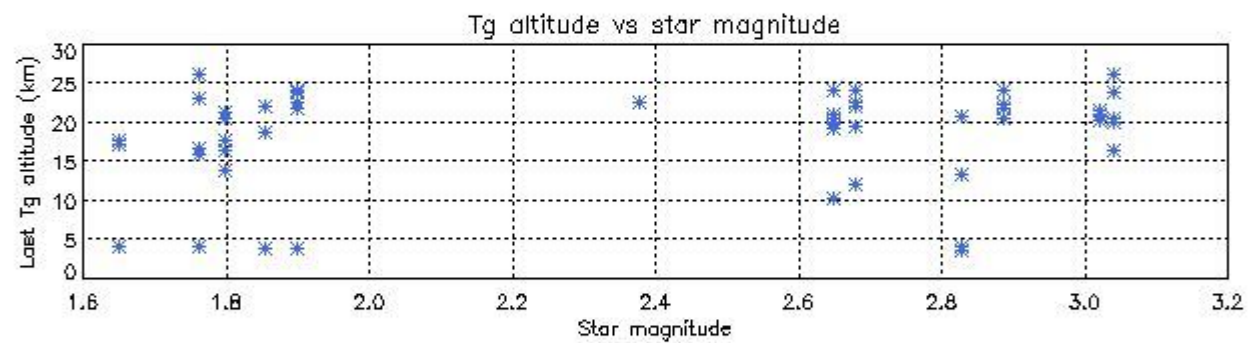
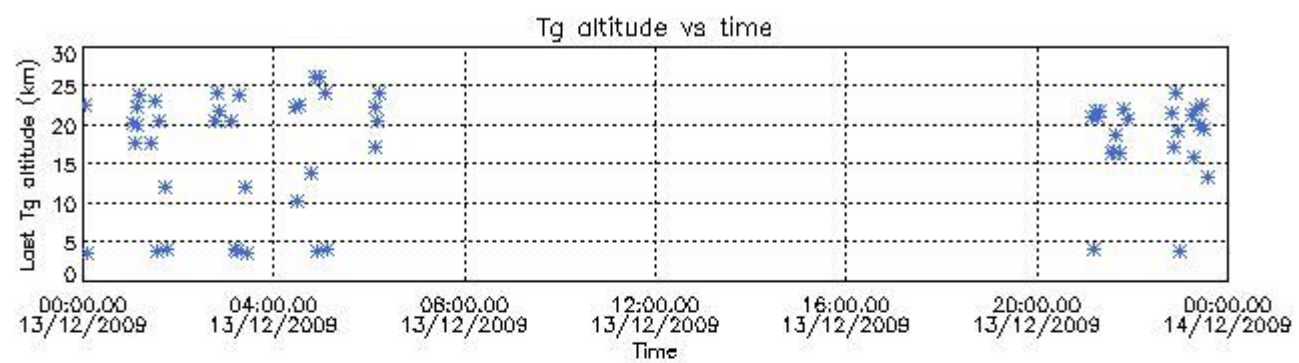
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



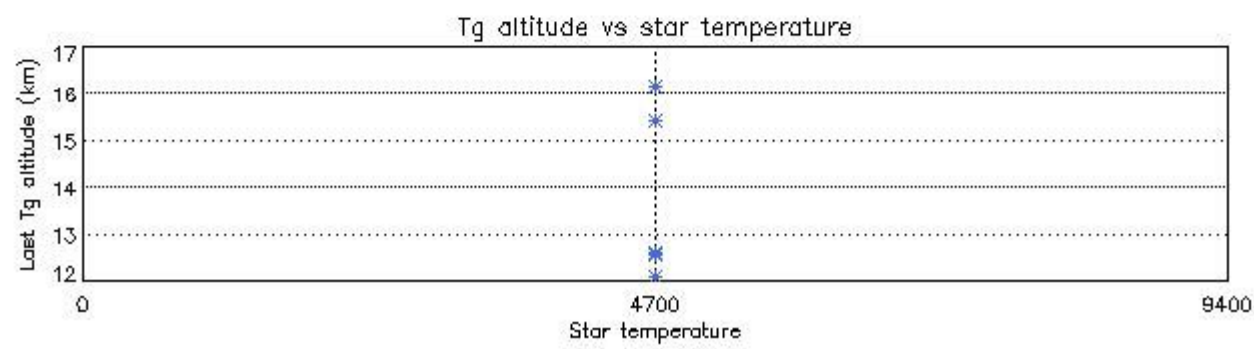
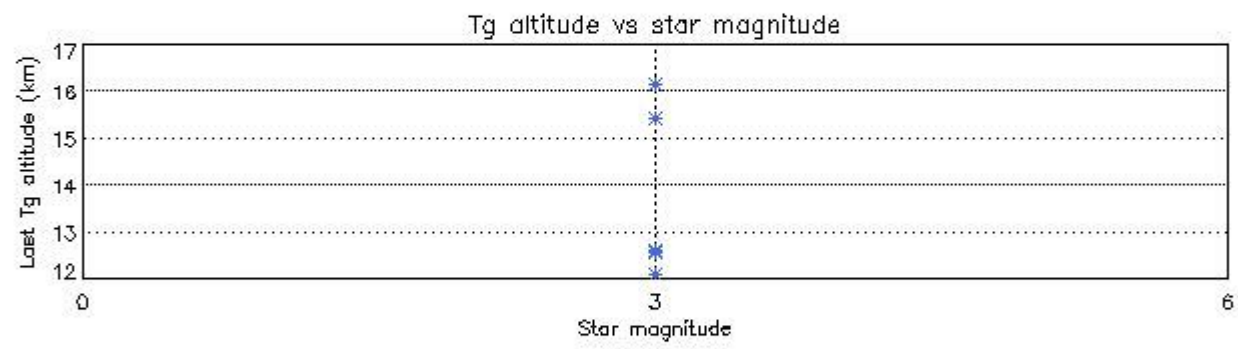
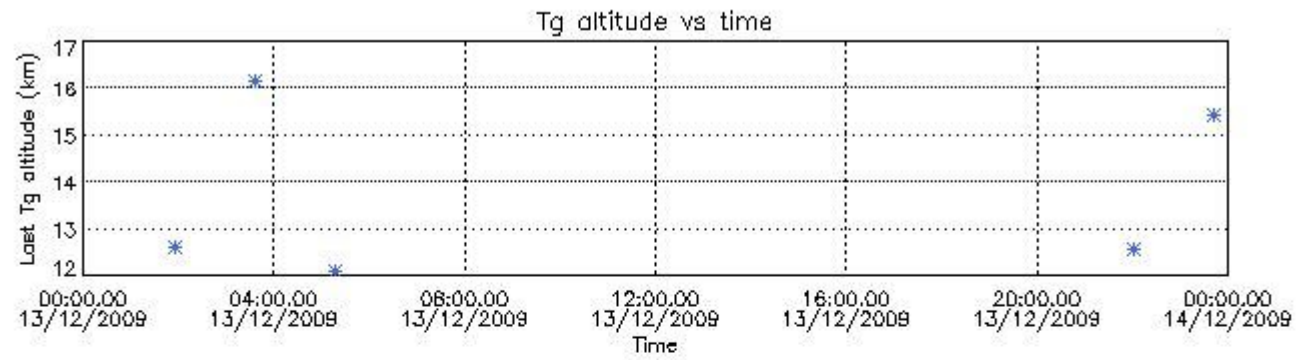
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

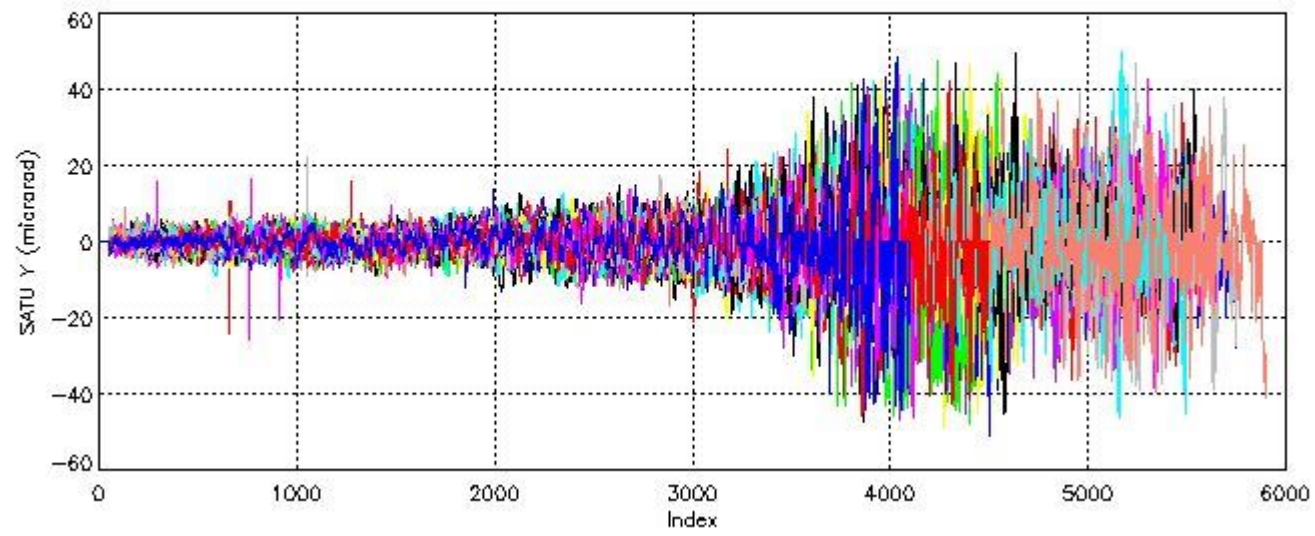
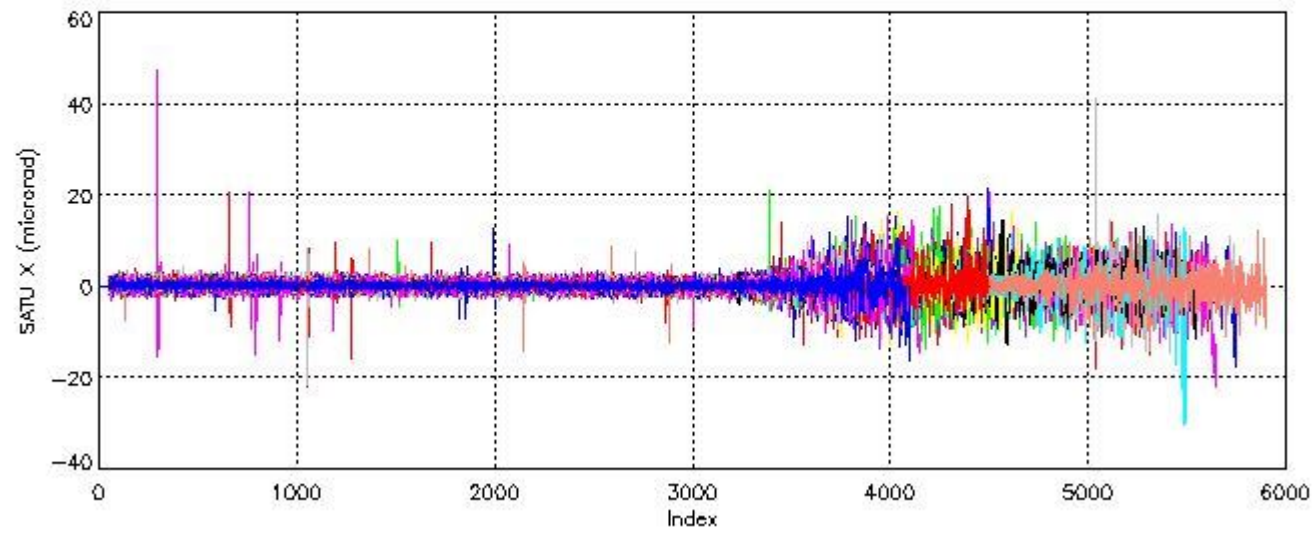


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.21515	-0.020844	0.19166	-0.12854
St. deviation:	0.62466	1.7929	0.94825	2.2897
Maximum:	47.300	22.000	6.6000	10.800
Minimum:	-21.900	-25.600	-6.0000	-11.700

Number of data:	53800.	53800.	58300.	58300.
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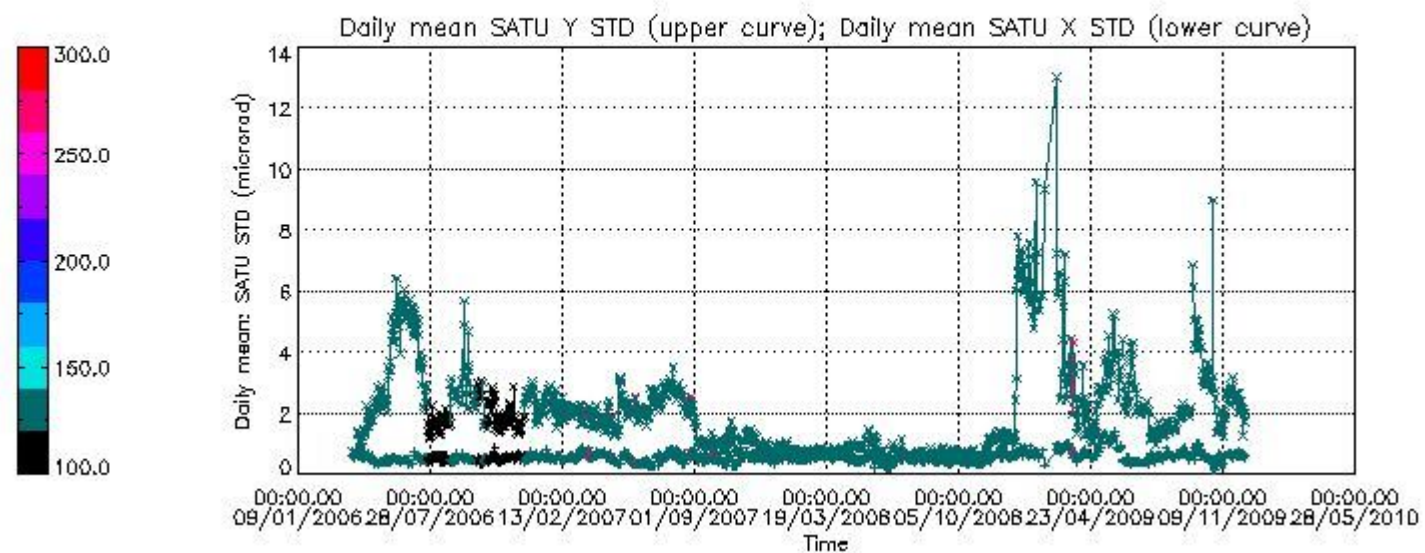
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

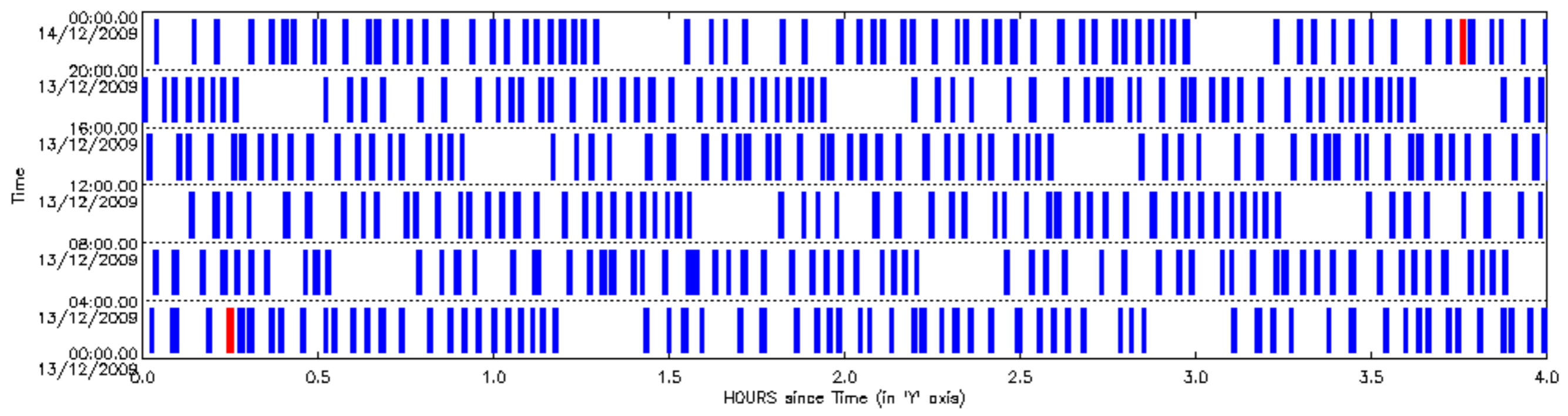
Lower curve: STD of SATU X axis

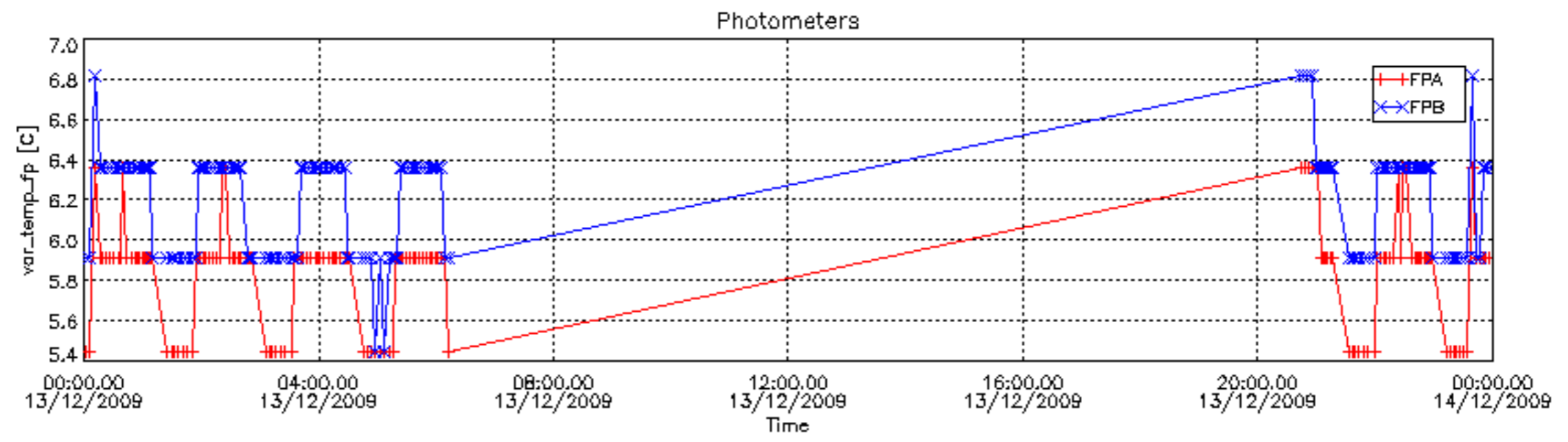
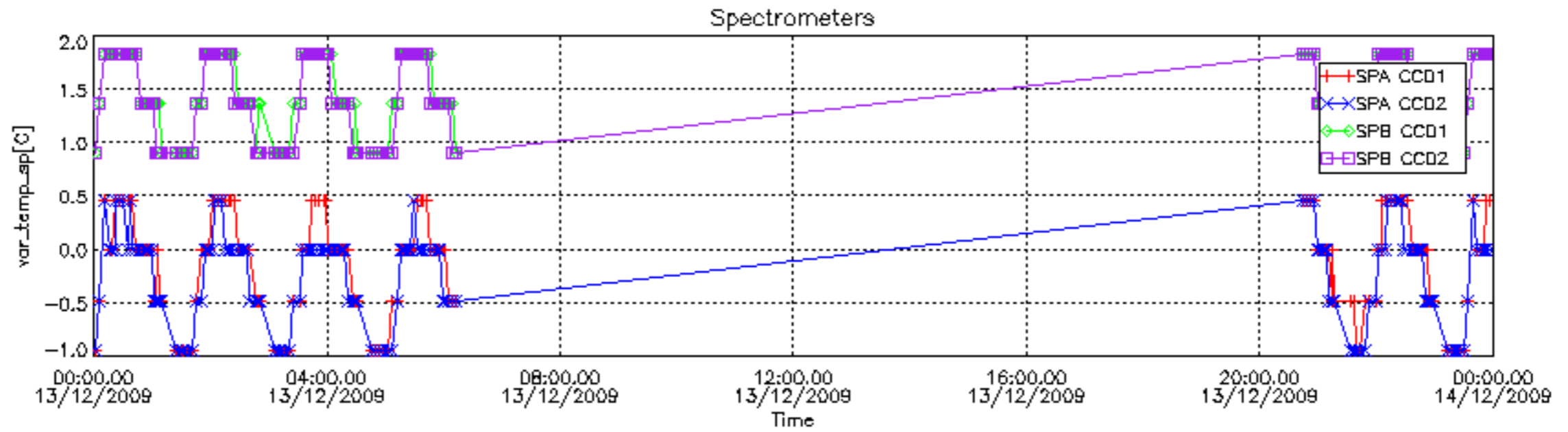


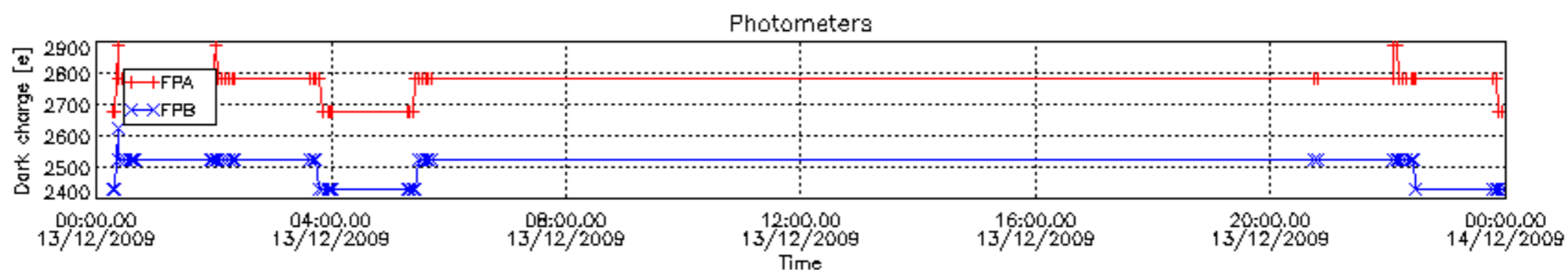
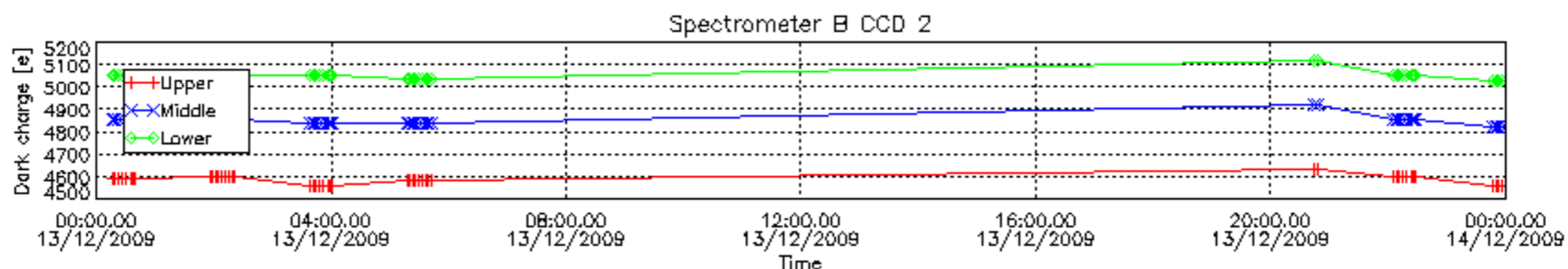
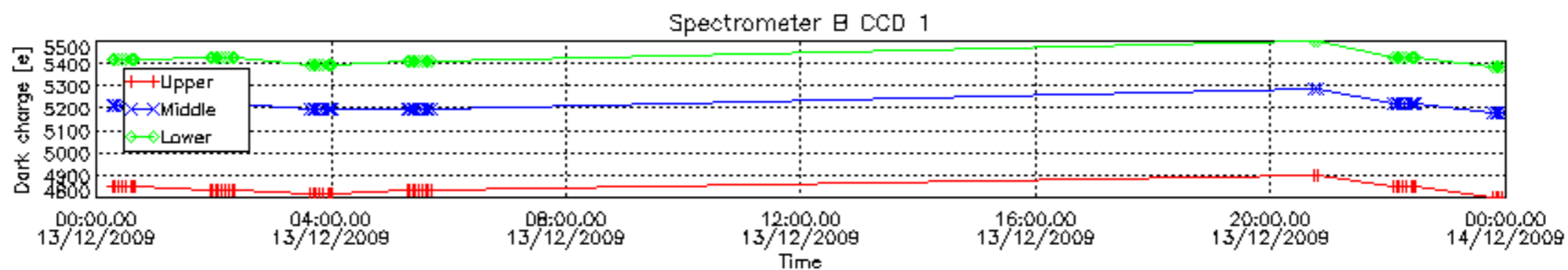
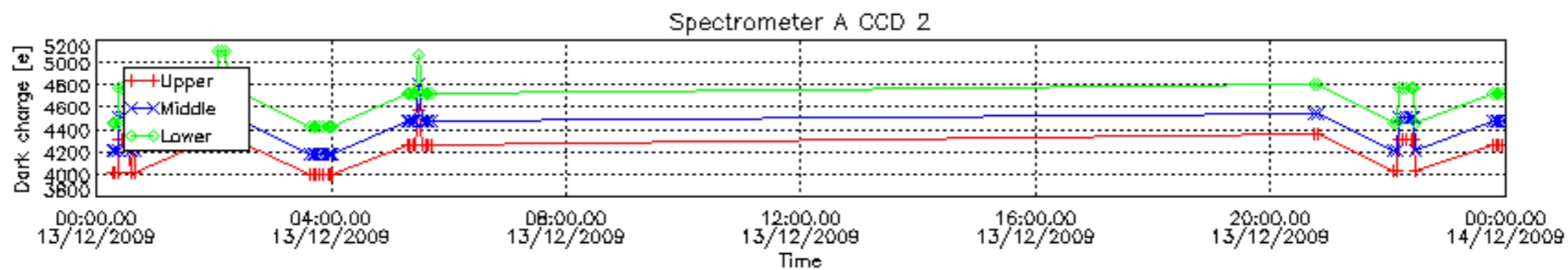
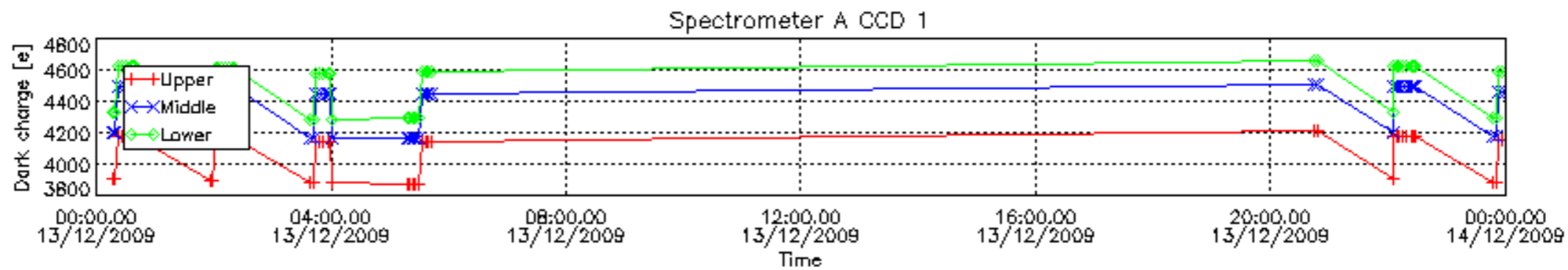
8. Auxiliary Data Files used for the production reported in section 2.4

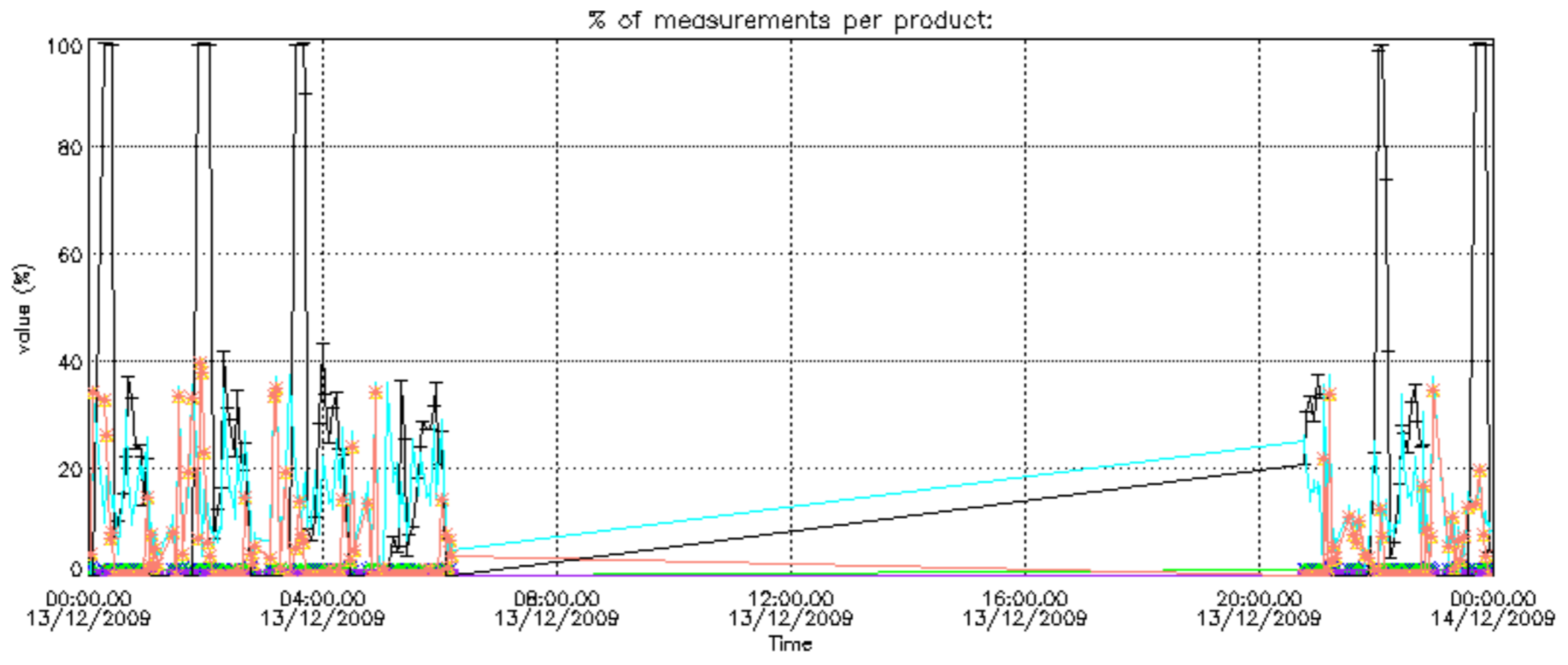
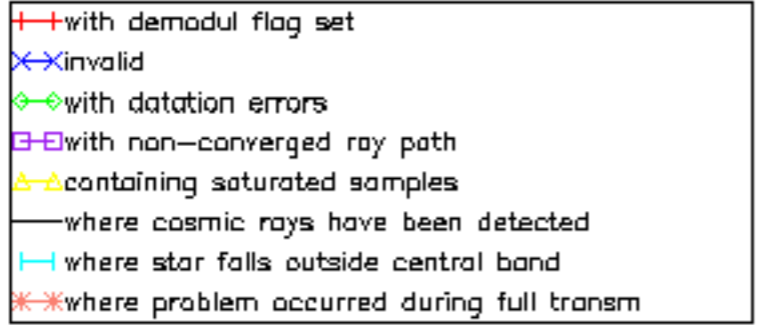
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-DEC-2009 00:01:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091207_160509_20091205_000000_20500101_000000	1	13-DEC-2009 00:01:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	13-DEC-2009 00:01:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-DEC-2009 00:01:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	13-DEC-2009 00:01:06
ECMWF_FILE	AUX_ECA_AXNECM20091213_062111_20091212_210000_20091213_090000	1	13-DEC-2009 00:01:06
ECMWF_FILE	AUX_ECA_AXNECM20091213_180110_20091213_030000_20091213_150000	50	13-DEC-2009 03:06:10
ECMWF_FILE	AUX_ECF_AXNECM20091213_064111_20091213_150000_20091214_030000	103	13-DEC-2009 20:45:08
ECMWF_FILE	AUX_ECF_AXNECM20091213_064111_20091213_210000_20091214_090000	122	13-DEC-2009 21:58:41
OPTIONAL_ECMWF_FILE	MISSING	1	13-DEC-2009 00:01:06
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091213_010110_20091212_192117_20091222_204732	1	13-DEC-2009 00:01:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091213_000940_000054192085_00073_40708_9347.N1	3	13-DEC-2009 00:10:45
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091213_044038_000057382085_00076_40711_9350.N1	76	13-DEC-2009 04:46:46
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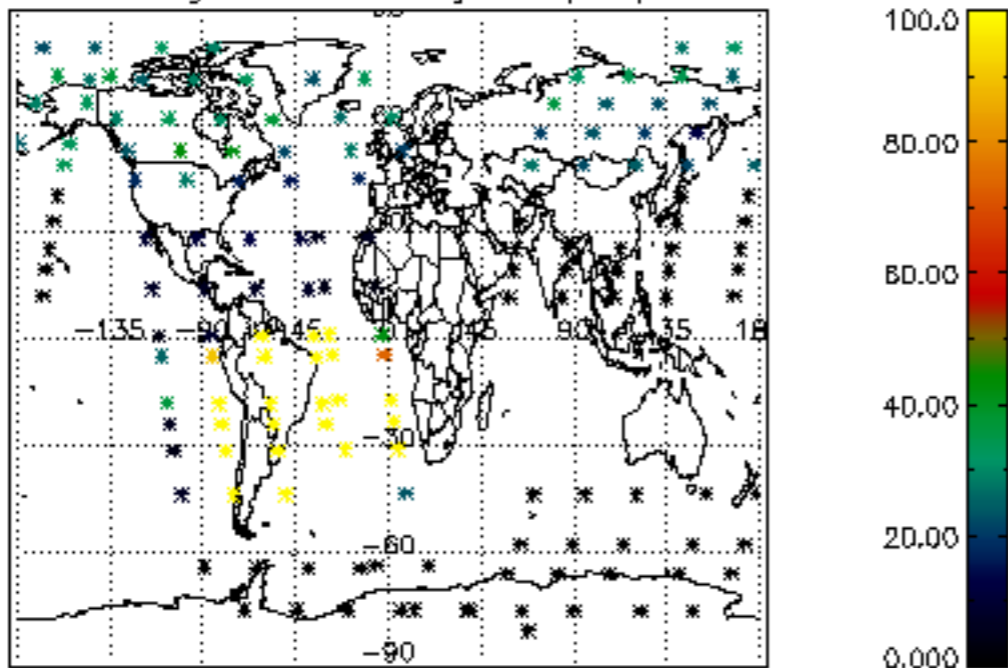




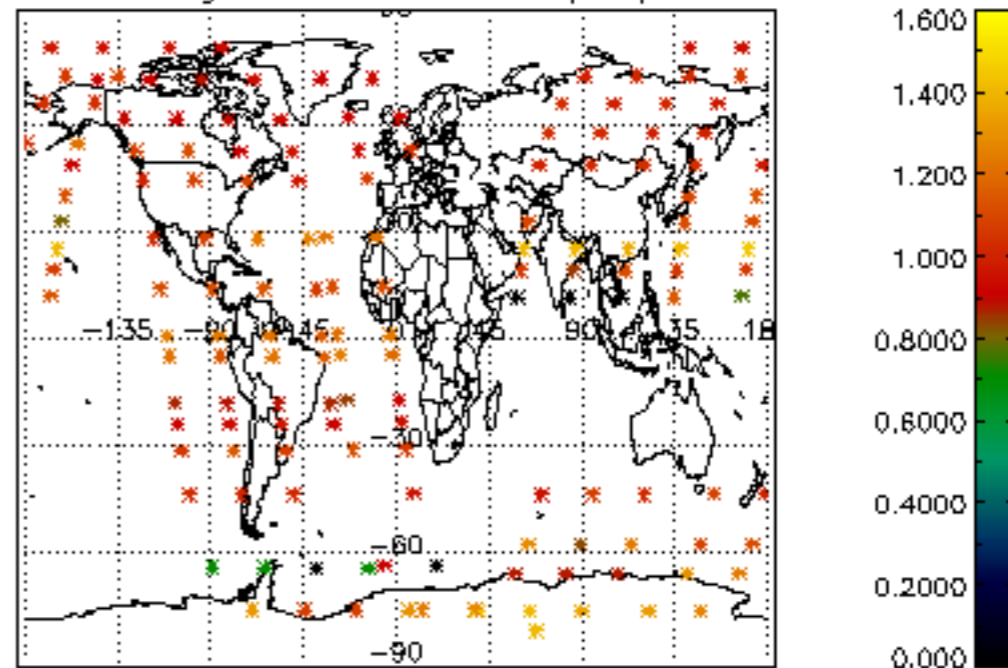




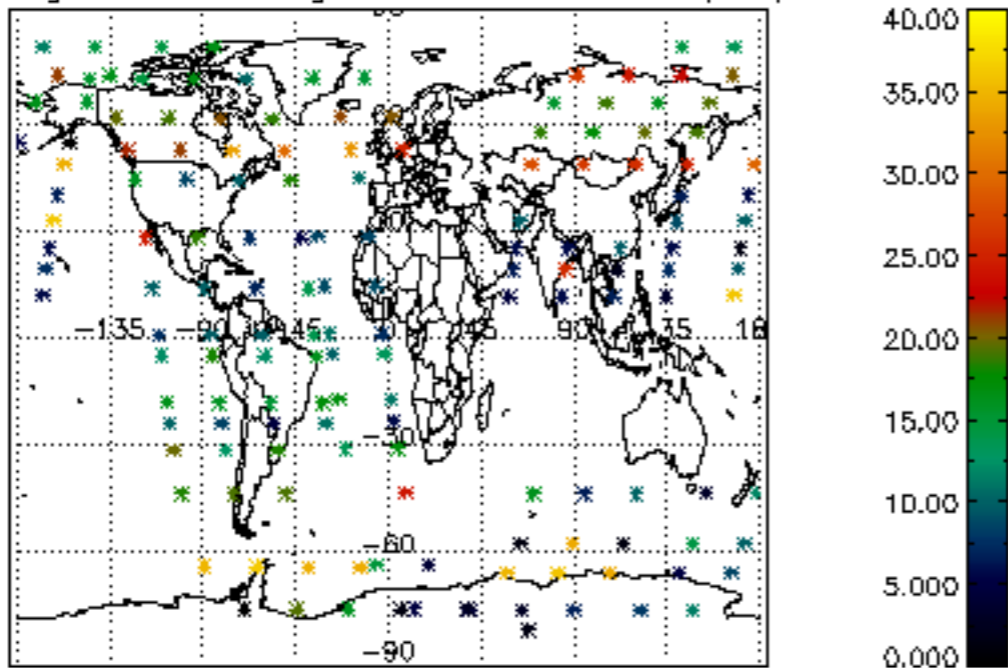
Percentage of cosmic ray hits per profile



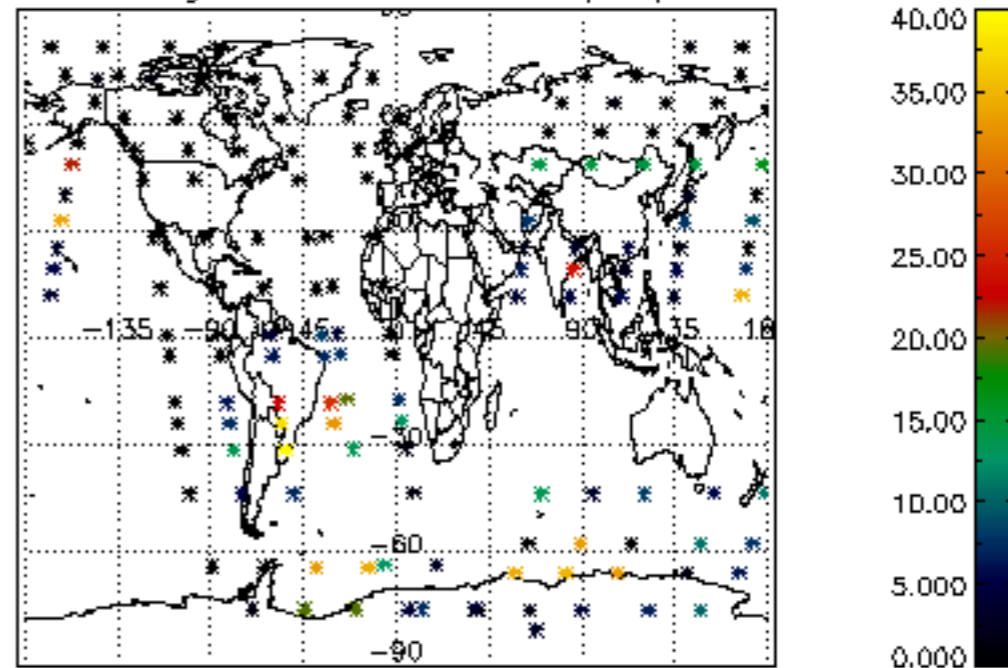
Percentage of datation errors per profile



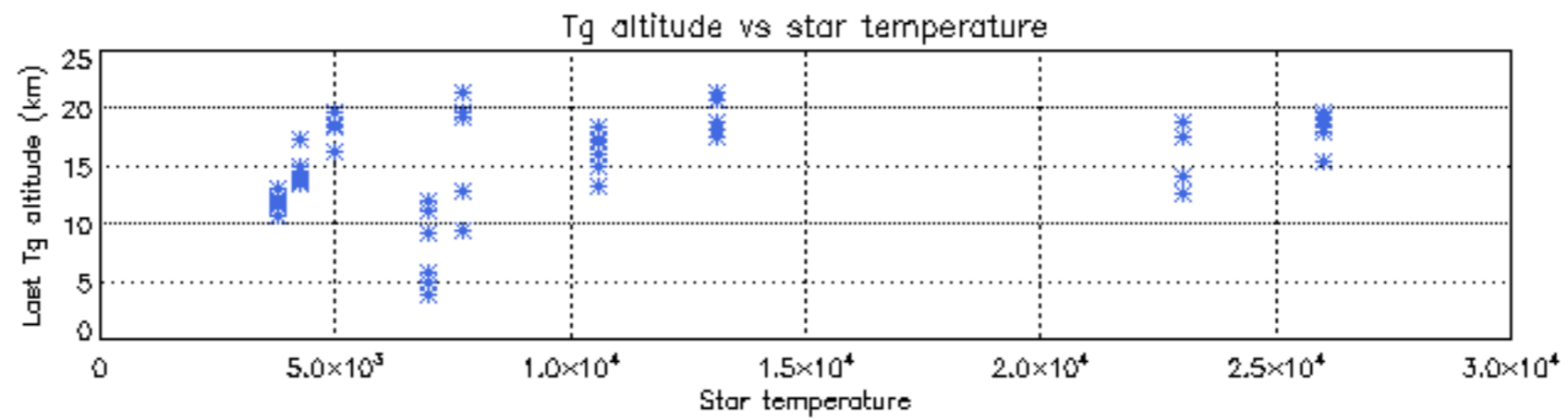
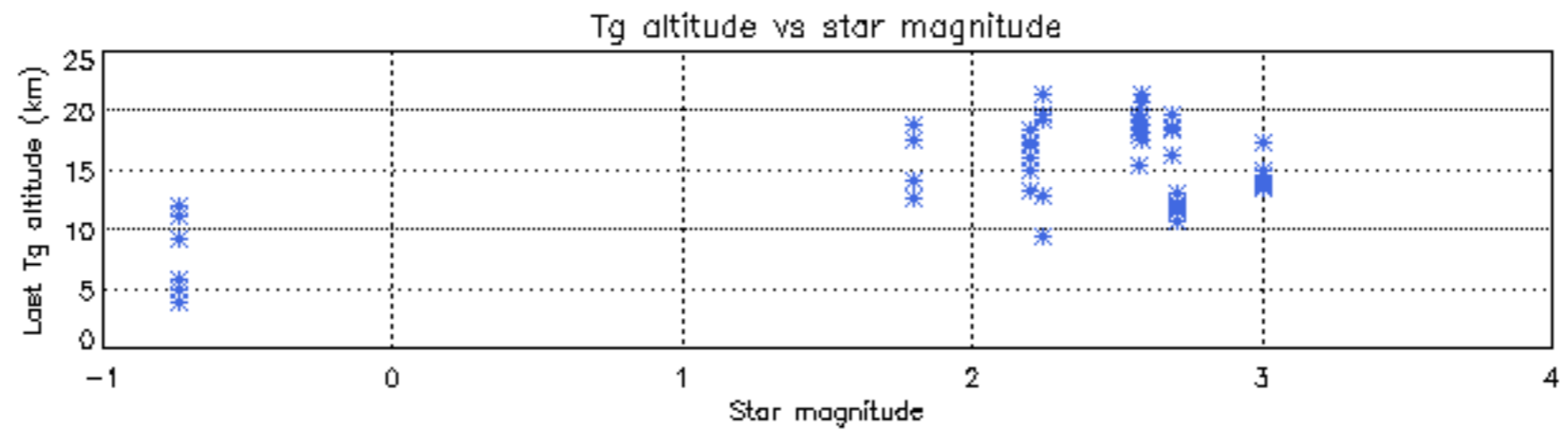
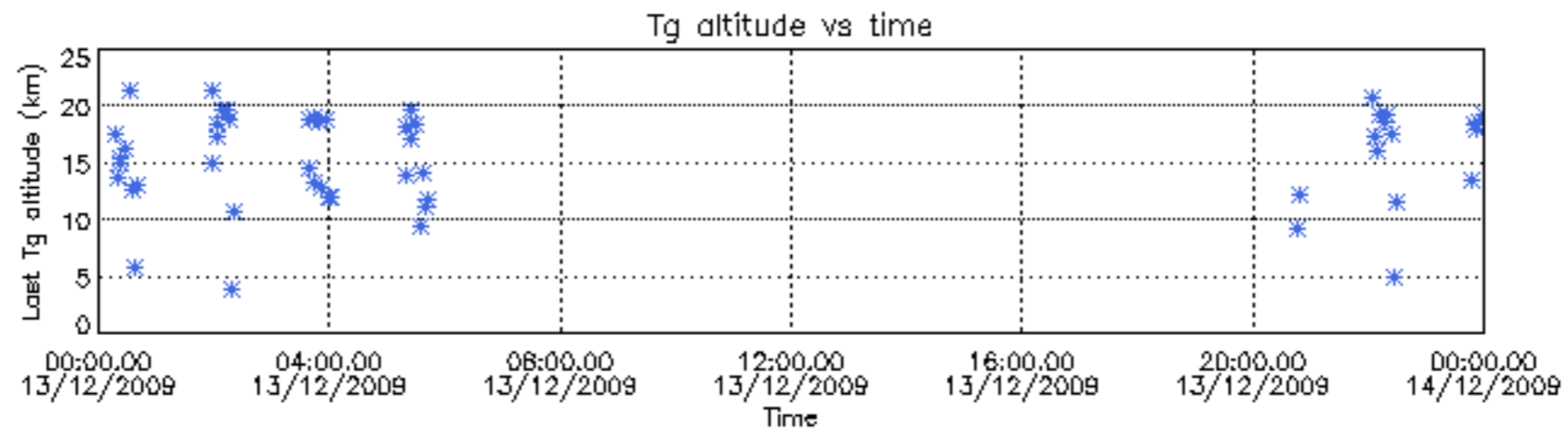
Percentage of star falling outside central band per profile



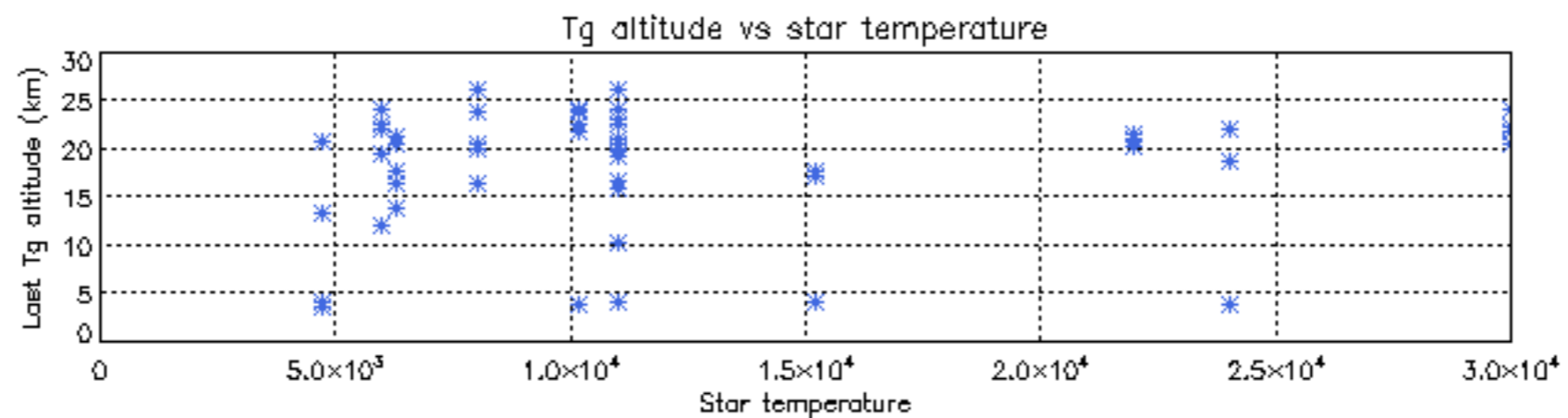
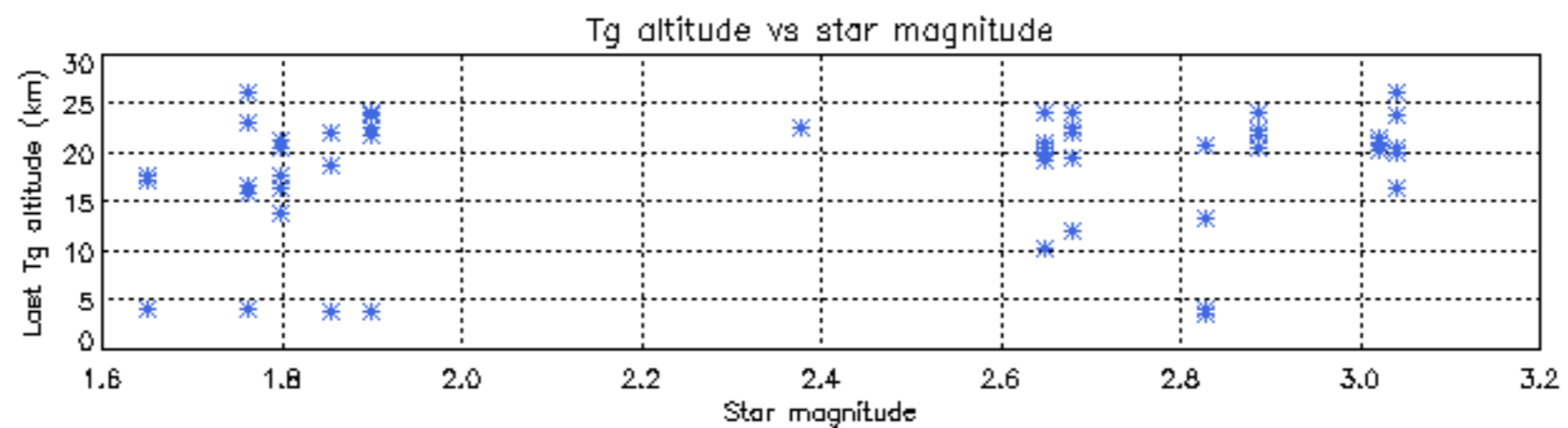
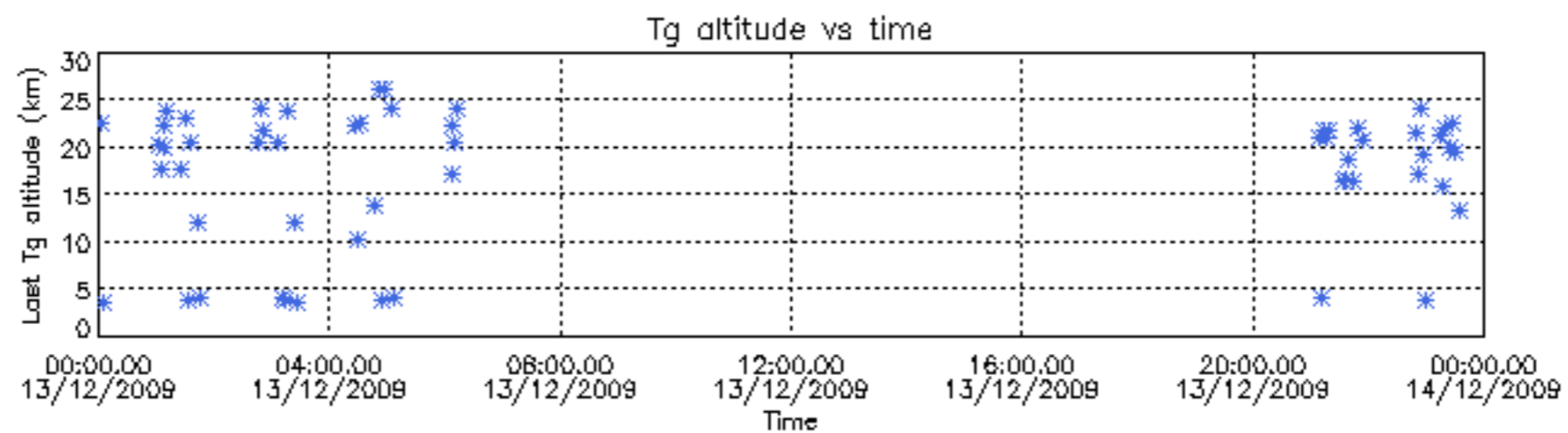
Percentage of saturation errors per profile



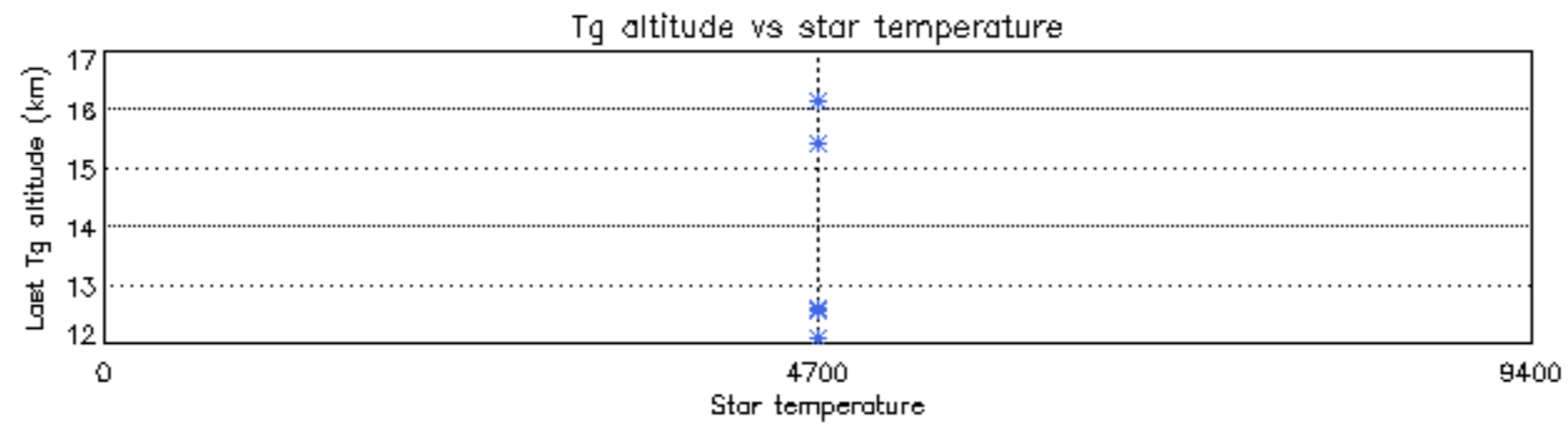
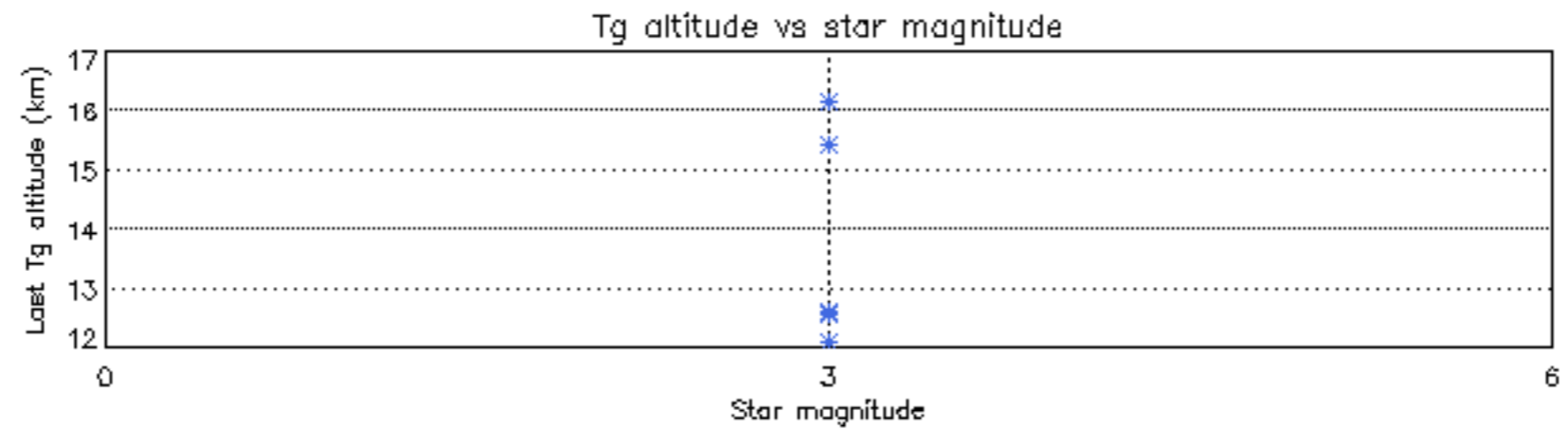
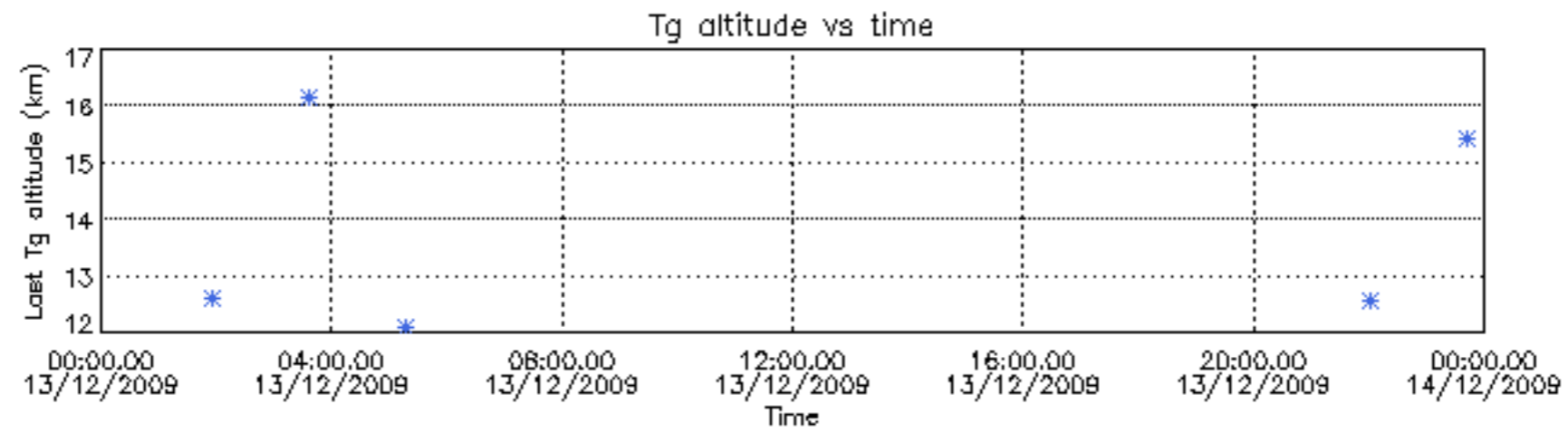
Tangent altitude at which the star is lost

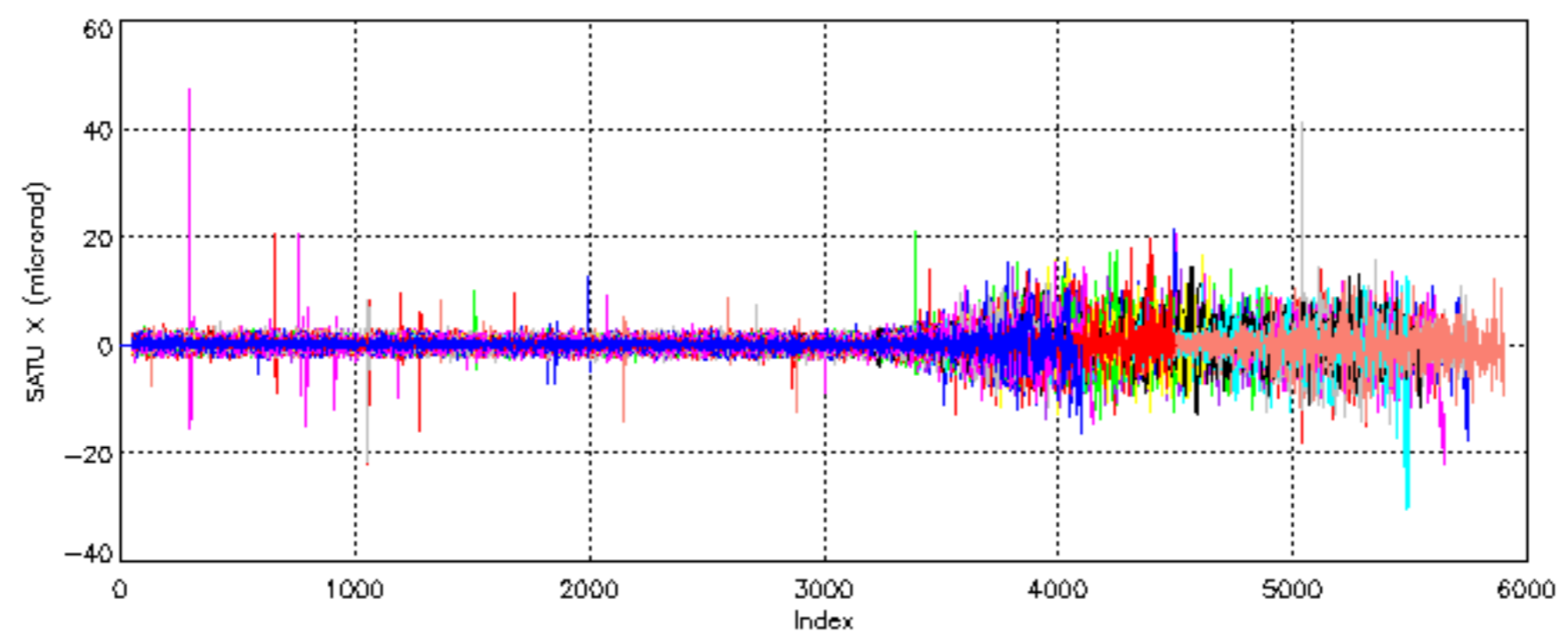


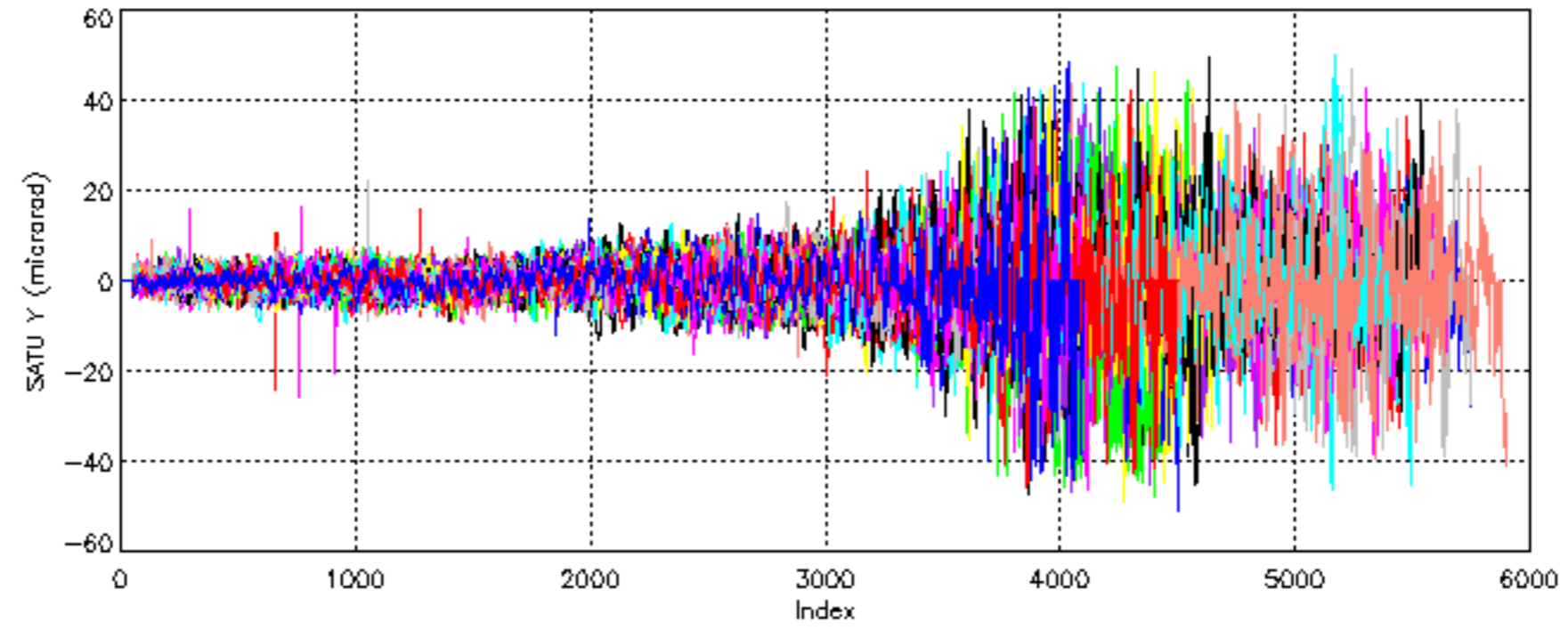
Tangent altitude at which the star is lost

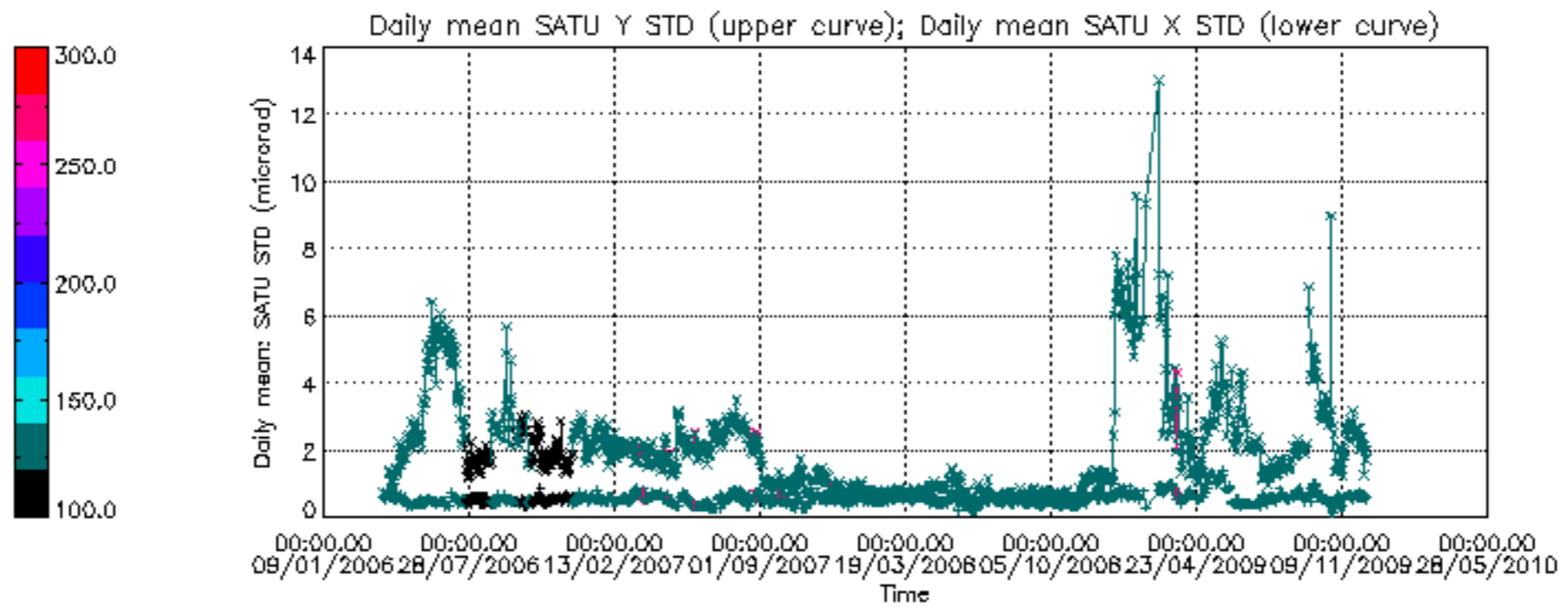


Tangent altitude at which the star is lost









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 17; 2847.4; 01-DEC-2009 02:28:08; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40538
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9; 2924.8; 03-DEC-2009 13:10:23; Bright; 48.5; 42; 34Bet Aur ; 1.90; 10200;occ; 97; 0;40573
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 19; 6029.7; 11-DEC-2009 08:08:36; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40684
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 21; 6490.9; 11-DEC-2009 08:16:17; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40684
 22; 6563.6; 11-DEC-2009 08:17:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40684
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 24; 6913.2; 11-DEC-2009 08:23:19; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40684
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 11; 4331.5; 11-DEC-2009 09:20:53; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40685
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 19; 6030.3; 11-DEC-2009 09:49:12; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;40685
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 22; 6564.3; 11-DEC-2009 09:58:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40685
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 25; 7064.5; 11-DEC-2009 10:06:26; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40685
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 27; 7563.8; 11-DEC-2009 10:14:46; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40685

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4; 2040.2; 11-DEC-2009 10:23:18; Dark ; 51.0; 27; 24Gam Ori ; 1.64; 26000;occ; 102; 0;40686
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6; 2355.8; 11-DEC-2009 10:28:33; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;40686
7; 2477.3; 11-DEC-2009 10:30:35; Bright; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;40686
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12; 4140.3; 11-DEC-2009 10:58:18; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0;40686
13; 4331.5; 11-DEC-2009 11:01:29; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40686
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19; 5701.3; 11-DEC-2009 11:24:19; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;40686
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27; 7065.4; 11-DEC-2009 11:47:03; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40686
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29; 7563.9; 11-DEC-2009 11:55:22; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40686

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11; 3995.2; 11-DEC-2009 12:36:29; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40687
12; 4140.1; 11-DEC-2009 12:38:54; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;40687
13; 4331.7; 11-DEC-2009 12:42:05; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40687
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15; 4929.1; 11-DEC-2009 12:52:03; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40687
16; 5283.6; 11-DEC-2009 12:57:57; Dark ; 49.5; 15; 67Alp Vir ; 0.98; 28000;occ; 99; 0;40687
17; 5492.2; 11-DEC-2009 13:01:26; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40687
18; 5606.4; 11-DEC-2009 13:03:20; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40687
19; 5702.6; 11-DEC-2009 13:04:56; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40687
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21; 6031.6; 11-DEC-2009 13:10:25; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40687
22; 6249.0; 11-DEC-2009 13:14:03; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40687
23; 6492.6; 11-DEC-2009 13:18:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40687
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27; 7066.0; 11-DEC-2009 13:27:40; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40687
28; 7270.8; 11-DEC-2009 13:31:04; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40687
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4; 2039.8; 11-DEC-2009 13:44:29; Dark ; 48.5; 27; 24Gam Ori ; 1.64; 26000;occ; 97; 0;40688
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6; 2355.0; 11-DEC-2009 13:49:44; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40688
7; 2476.3; 11-DEC-2009 13:51:46; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40688
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12; 4140.3; 11-DEC-2009 14:19:30; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;40688
13; 4332.0; 11-DEC-2009 14:22:41; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40688
14; 4711.8; 11-DEC-2009 14:29:01; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40688
15; 4929.8; 11-DEC-2009 14:32:39; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40688
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17; 5492.8; 11-DEC-2009 14:42:02; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40688
18; 5607.5; 11-DEC-2009 14:43:57; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;40688
19; 5703.8; 11-DEC-2009 14:45:33; Dark ; 58.5; 171; 2Eps Crv ; 3.00; 4250;occ; 117; 0;40688
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22; 6249.9; 11-DEC-2009 14:54:39; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40688
23; 6493.4; 11-DEC-2009 14:58:43; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40688
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27; 7066.6; 11-DEC-2009 15:08:16; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40688
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22; 6250.9; 11-DEC-2009 16:35:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40689
23; 6494.1; 11-DEC-2009 16:39:19; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;40689
24; 6567.6; 11-DEC-2009 16:40:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40689
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27; 7067.3; 11-DEC-2009 16:48:53; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40689
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 19; 4940.2; 12-DEC-2009 20:43:37; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;40706

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27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708
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 15; 748.6; 13-DEC-2009 07:17:57; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;40713
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 17; 1045.5; 13-DEC-2009 07:22:54; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40713
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22; 6586.1; 13-DEC-2009 08:55:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40713
23; 6785.3; 13-DEC-2009 08:58:33; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40713
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25; 7082.1; 13-DEC-2009 09:03:30; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;40713
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11; 3990.3; 13-DEC-2009 09:52:34; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40714
12; 4139.7; 13-DEC-2009 09:55:04; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;40714
13; 4334.6; 13-DEC-2009 09:58:19; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40714
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11; 3990.2; 13-DEC-2009 11:33:10; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40715
12; 4139.3; 13-DEC-2009 11:35:39; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40715
13; 4334.7; 13-DEC-2009 11:38:55; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;40715
14; 4719.4; 13-DEC-2009 11:45:19; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40715
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17; 5510.7; 13-DEC-2009 11:58:31; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;40715
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 23; 6587.6; 13-DEC-2009 12:16:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40715
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27; 6946.4; 16-DEC-2009 14:08:48; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40759
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3; 1884.5; 16-DEC-2009 14:25:02; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40760
4; 2072.0; 16-DEC-2009 14:28:09; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;40760
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6; 2321.9; 16-DEC-2009 14:32:19; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40760
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 12; 4137.1; 16-DEC-2009 15:02:34; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;40760
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8; -407.2; 17-DEC-2009 06:32:50; Dark ; 44.0; 163; 7Del Crv ; 2.94; 11000;occ; 88; 0;40769
9; -329.7; 17-DEC-2009 06:34:07; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40769
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12; 285.6; 17-DEC-2009 06:44:22; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40770
13; 508.0; 17-DEC-2009 06:48:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40770
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16; 918.0; 17-DEC-2009 06:54:55; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40770
17; 1078.0; 17-DEC-2009 06:57:35; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40770
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27; 7413.7; 17-DEC-2009 08:43:10; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;40770
28; 7576.3; 17-DEC-2009 08:45:53; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;40770
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 13; 4340.1; 17-DEC-2009 14:34:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40774
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 6; 2189.1; 17-DEC-2009 15:39:05; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40775
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 13; 4136.1; 17-DEC-2009 16:11:32; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40775
 14; 4340.5; 17-DEC-2009 16:14:57; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40775
 15; 4535.1; 17-DEC-2009 16:18:11; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40775
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 27; 7117.5; 17-DEC-2009 17:01:14; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40775

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 27; 6959.2; 17-DEC-2009 18:39:11; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40776

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9; 1084.0; 18-DEC-2009 01:24:16; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40781
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 15; 5353.2; 18-DEC-2009 10:58:25; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40786
 16; 5563.8; 18-DEC-2009 11:01:55; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40786
 17; 5725.5; 18-DEC-2009 11:04:37; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;40786
 18; 5999.0; 18-DEC-2009 11:09:11; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40786
 19; 6099.2; 18-DEC-2009 11:10:51; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40786
 20; 6336.8; 18-DEC-2009 11:14:48; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40786
 21; 6554.3; 18-DEC-2009 11:18:26; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40786
 22; 6640.6; 18-DEC-2009 11:19:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40786
 23; 6837.0; 18-DEC-2009 11:23:09; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40786
 24; 6966.1; 18-DEC-2009 11:25:18; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40786
 25; 7123.1; 18-DEC-2009 11:27:55; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40786
 26; 7313.7; 18-DEC-2009 11:31:05; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;40786
 27; 7418.8; 18-DEC-2009 11:32:50; Dark ; 53.5; 179; 240mi2CMA ; 3.03; 24000;occ; 107; 0;40786
 28; 7594.7; 18-DEC-2009 11:35:46; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;40786

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091218_113859_000058512085_00152_40787_5803.N1

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 2; 1882.1; 18-DEC-2009 11:41:10; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;40787
 3; 2063.9; 18-DEC-2009 11:44:11; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;40787
 4; 2188.5; 18-DEC-2009 11:46:16; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40787
 5; 2311.5; 18-DEC-2009 11:48:19; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40787
 6; 2435.4; 18-DEC-2009 11:50:23; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40787
 7; 2644.0; 18-DEC-2009 11:53:52; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40787
 8; 2775.4; 18-DEC-2009 11:56:03; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40787
 9; 3703.7; 18-DEC-2009 12:11:31; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;40787
 10; 3974.4; 18-DEC-2009 12:16:02; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40787
 11; 4135.3; 18-DEC-2009 12:18:43; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40787
 12; 4341.1; 18-DEC-2009 12:22:09; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;40787
 13; 4537.1; 18-DEC-2009 12:25:25; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;40787
 14; 4741.7; 18-DEC-2009 12:28:49; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40787
 15; 5354.1; 18-DEC-2009 12:39:02; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;40787
 16; 5564.6; 18-DEC-2009 12:42:32; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40787
 17; 5726.8; 18-DEC-2009 12:45:14; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40787
 18; 5999.8; 18-DEC-2009 12:49:47; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40787
 19; 6099.9; 18-DEC-2009 12:51:27; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40787
 20; 6337.6; 18-DEC-2009 12:55:25; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40787
 21; 6554.8; 18-DEC-2009 12:59:02; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40787
 22; 6641.4; 18-DEC-2009 13:00:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40787
 23; 6837.7; 18-DEC-2009 13:03:45; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;40787
 24; 6966.7; 18-DEC-2009 13:05:54; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40787
 25; 7123.5; 18-DEC-2009 13:08:31; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40787
 26; 7313.8; 18-DEC-2009 13:11:41; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;40787
 27; 7418.7; 18-DEC-2009 13:13:26; Dark ; 52.5; 179; 240mi2CMA ; 3.03; 24000;occ; 105; 0;40787
 28; 7594.7; 18-DEC-2009 13:16:22; Dark ; 8.5; 1; 9Alp CMA ; -1.44; 11000;occ; 17; 0;40787

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091218_131622_000059122085_00153_40788_5804.N1

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 2; 1751.5; 18-DEC-2009 13:19:35; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;40788
 3; 1882.1; 18-DEC-2009 13:21:46; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;40788
 4; 2063.5; 18-DEC-2009 13:24:47; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40788
 5; 2188.7; 18-DEC-2009 13:26:52; Dark ; 44.0; 13; 87Alp Tau ; 0.87; 3800;occ; 88; 0;40788
 6; 2311.4; 18-DEC-2009 13:28:55; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40788
 7; 2435.0; 18-DEC-2009 13:30:58; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40788
 8; 2643.4; 18-DEC-2009 13:34:27; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40788
 9; 2774.9; 18-DEC-2009 13:36:38; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40788
 10; 3703.8; 18-DEC-2009 13:52:07; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40788
 11; 3974.1; 18-DEC-2009 13:56:37; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40788
 12; 4135.2; 18-DEC-2009 13:59:19; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40788
 13; 4341.1; 18-DEC-2009 14:02:45; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;40788
 14; 4537.2; 18-DEC-2009 14:06:01; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;40788
 15; 4742.3; 18-DEC-2009 14:09:26; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40788
 16; 5354.8; 18-DEC-2009 14:19:38; Dark ; 56.0; 15; 67Alp Vir ; 0.98; 28000;occ; 112; 0;40788
 17; 5565.5; 18-DEC-2009 14:23:09; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40788
 18; 5728.0; 18-DEC-2009 14:25:51; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40788

19; 6000.5; 18-DEC-2009 14:30:24; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40788
 20; 6100.8; 18-DEC-2009 14:32:04; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40788
 21; 6338.6; 18-DEC-2009 14:36:02; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;40788
 22; 6555.5; 18-DEC-2009 14:39:39; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40788
 23; 6642.2; 18-DEC-2009 14:41:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40788
 24; 6838.3; 18-DEC-2009 14:44:22; Dark ; 52.5; 34; Gam2Vel ; 1.79; 23000;occ; 105; 0;40788
 25; 6967.6; 18-DEC-2009 14:46:31; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40788
 26; 7124.2; 18-DEC-2009 14:49:08; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40788
 27; 7314.3; 18-DEC-2009 14:52:18; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;40788
 28; 7419.3; 18-DEC-2009 14:54:03; Dark ; 52.0; 179; 240mi2CMA ; 3.03; 24000;occ; 104; 0;40788

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091218_145449_000059322085_00154_40789_5805.N1

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 2; 1558.9; 18-DEC-2009 14:56:58; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;40789
 3; 1751.6; 18-DEC-2009 15:00:11; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40789
 4; 1881.8; 18-DEC-2009 15:02:21; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;40789
 5; 2063.1; 18-DEC-2009 15:05:22; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40789
 6; 2188.6; 18-DEC-2009 15:07:28; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;40789
 7; 2311.0; 18-DEC-2009 15:09:30; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40789
 8; 2434.6; 18-DEC-2009 15:11:34; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40789
 9; 2643.0; 18-DEC-2009 15:15:02; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40789
 10; 2774.5; 18-DEC-2009 15:17:14; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;40789
 11; 3703.9; 18-DEC-2009 15:32:43; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40789
 12; 3974.0; 18-DEC-2009 15:37:13; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40789
 13; 4135.1; 18-DEC-2009 15:39:54; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;40789
 14; 4341.2; 18-DEC-2009 15:43:21; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40789
 15; 4537.6; 18-DEC-2009 15:46:37; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40789
 16; 4742.7; 18-DEC-2009 15:50:02; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40789
 17; 5355.7; 18-DEC-2009 16:00:15; Dark ; 52.0; 15; 67Alp Vir ; 0.98; 28000;occ; 104; 0;40789
 18; 5566.4; 18-DEC-2009 16:03:46; Dark ; 50.0; 169; 46Gam Hya ; 2.99; 4700;occ; 100; 0;40789
 19; 5729.3; 18-DEC-2009 16:06:29; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40789
 20; 6001.2; 18-DEC-2009 16:11:01; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;40789
 21; 6101.6; 18-DEC-2009 16:12:41; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;40789
 22; 6339.6; 18-DEC-2009 16:16:39; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40789
 23; 6556.2; 18-DEC-2009 16:20:16; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40789
 24; 6643.0; 18-DEC-2009 16:21:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40789
 25; 6839.1; 18-DEC-2009 16:24:58; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40789
 26; 6968.4; 18-DEC-2009 16:27:08; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40789
 27; 7125.0; 18-DEC-2009 16:29:44; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40789
 28; 7314.8; 18-DEC-2009 16:32:54; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;40789

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 2; 1383.8; 18-DEC-2009 16:34:39; Dark ; 52.0; 179; 240mi2CMA ; 3.03; 24000;occ; 104; 0;40790
 3; 1559.0; 18-DEC-2009 16:37:34; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;40790
 4; 1751.8; 18-DEC-2009 16:40:47; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40790
 5; 1882.0; 18-DEC-2009 16:42:57; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40790
 6; 2062.8; 18-DEC-2009 16:45:58; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40790
 7; 2188.4; 18-DEC-2009 16:48:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40790
 8; 2310.5; 18-DEC-2009 16:50:06; Bright; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;40790
 9; 2434.3; 18-DEC-2009 16:52:10; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40790
 10; 2642.4; 18-DEC-2009 16:55:38; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;40790
 11; 2773.8; 18-DEC-2009 16:57:49; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;40790
 12; 3703.9; 18-DEC-2009 17:13:19; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40790
 13; 3973.7; 18-DEC-2009 17:17:49; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40790
 14; 4134.9; 18-DEC-2009 17:20:30; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40790
 15; 4341.5; 18-DEC-2009 17:23:57; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;40790
 16; 4537.8; 18-DEC-2009 17:27:13; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40790
 17; 4743.0; 18-DEC-2009 17:30:38; Bright; 50.0; 111; 8Eta Boo ; 2.68; 6000;occ; 100; 0;40790
 18; 5356.5; 18-DEC-2009 17:40:52; Dark ; 57.5; 15; 67Alp Vir ; 0.98; 28000;occ; 115; 0;40790
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 20; 5730.6; 18-DEC-2009 17:47:06; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40790
 21; 6001.9; 18-DEC-2009 17:51:37; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40790
 22; 6102.3; 18-DEC-2009 17:53:18; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40790
 23; 6340.5; 18-DEC-2009 17:57:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40790
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 25; 6643.7; 18-DEC-2009 18:02:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40790
 26; 6839.8; 18-DEC-2009 18:05:35; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40790
 27; 6969.2; 18-DEC-2009 18:07:45; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40790
 28; 7125.4; 18-DEC-2009 18:10:21; Dark ; 32.5; 117; Pi Pup ; 2.71; 3800;occ; 65; 0;40790

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091218_181021_000058002085_00156_40791_5807.N1

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 3; 1384.3; 18-DEC-2009 18:15:16; Dark ; 49.0; 179; 240mi2CMa ; 3.03; 24000;occ; 98; 0;40791
 4; 1559.3; 18-DEC-2009 18:18:11; Dark ; 60.5; 1; 9Alp CMa ; -1.44; 11000;occ; 121; 0;40791
 5; 1751.8; 18-DEC-2009 18:21:23; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40791
 6; 1881.9; 18-DEC-2009 18:23:33; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40791
 7; 2062.6; 18-DEC-2009 18:26:34; Dark ; 61.0; 14; 58Alp Ori ; 0.87; 3000;occ; 122; 0;40791
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 11; 2642.0; 18-DEC-2009 18:36:13; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40791
 12; 2773.4; 18-DEC-2009 18:38:25; Bright; 41.5; 42; 34Bet Aur ; 1.90; 10200;occ; 83; 0;40791
 13; 3703.5; 18-DEC-2009 18:53:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40791
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 18; 4743.5; 18-DEC-2009 19:11:15; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40791
 19; 5357.3; 18-DEC-2009 19:21:29; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40791
 20; 5567.9; 18-DEC-2009 19:24:59; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;40791
 21; 5731.7; 18-DEC-2009 19:27:43; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40791
 22; 6002.4; 18-DEC-2009 19:32:14; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;40791
 23; 6102.9; 18-DEC-2009 19:33:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40791
 24; 6341.4; 18-DEC-2009 19:37:53; Dark ; 55.5; 113; Mu Vel ; 2.69; 5000;occ; 111; 0;40791
 25; 6557.4; 18-DEC-2009 19:41:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40791
 26; 6644.4; 18-DEC-2009 19:42:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40791
 27; 6840.4; 18-DEC-2009 19:46:12; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40791

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091219_002319_000054632085_00159_40794_9155.N1

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 3; -300.9; 19-DEC-2009 00:29:34; Dark ; 64.0; 106; 9Bet Crv ; 2.65; 5600;occ; 128; 0;40794
 4; -31.6; 19-DEC-2009 00:34:03; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40794
 5; 69.1; 19-DEC-2009 00:35:44; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40795
 6; 308.0; 19-DEC-2009 00:39:43; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40795
 7; 523.3; 19-DEC-2009 00:43:18; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;40795
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 13; 1385.0; 19-DEC-2009 00:57:40; Dark ; 53.5; 179; 240mi2CMa ; 3.03; 24000;occ; 107; 0;40795
 14; 1559.4; 19-DEC-2009 01:00:34; Dark ; 60.0; 1; 9Alp CMa ; -1.44; 11000;occ; 120; 0;40795
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 19; 2308.7; 19-DEC-2009 01:13:04; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40795
 20; 2432.7; 19-DEC-2009 01:15:08; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40795
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 22; 2727.1; 19-DEC-2009 01:20:02; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40795
 23; 3703.2; 19-DEC-2009 01:36:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40795
 24; 3972.3; 19-DEC-2009 01:40:47; Bright; 55.5; 32; 77Eps UMa ; 1.76; 11000;occ; 111; 0;40795
 25; 4134.4; 19-DEC-2009 01:43:29; Bright; 53.5; 39; 85Eta UMa ; 1.85; 24000;occ; 107; 0;40795
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 27; 4538.5; 19-DEC-2009 01:50:13; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;40795
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 13; 1385.5; 19-DEC-2009 02:38:16; Dark ; 51.0; 179; 240mi2CMa ; 3.03; 24000;occ; 102; 0;40796
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 13; 524.4; 19-DEC-2009 04:04:31; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40797
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 16; 937.4; 19-DEC-2009 04:11:24; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0;40797
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 29; 3703.6; 19-DEC-2009 04:57:30; Bright; 21.5; 60; 7Bet UMi ; 2.08; 3950;occ; 43; 0;40797

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 4; -1693.5; 19-DEC-2009 05:08:09; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;40797
 5; -1497.1; 19-DEC-2009 05:11:26; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;40797
 6; -1290.6; 19-DEC-2009 05:14:52; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40797
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 9; -297.3; 19-DEC-2009 05:31:26; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;40797
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 12; 310.8; 19-DEC-2009 05:41:34; Dark ; 54.5; 113; Mu Vel ; 2.69; 5000;occ; 109; 0;40798
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 17; 1092.8; 19-DEC-2009 05:54:36; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40798
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 19; 1386.2; 19-DEC-2009 05:59:29; Dark ; 51.5; 179; 240mi2CMa ; 3.03; 24000;occ; 103; 0;40798
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 21; 1752.1; 19-DEC-2009 06:05:35; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40798
 22; 1881.5; 19-DEC-2009 06:07:44; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40798
 23; 2061.0; 19-DEC-2009 06:10:44; Dark ; 61.0; 14; 58Alp Ori ; 0.87; 3000;occ; 122; 0;40798
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3; 1285.4; 19-DEC-2009 21:03:12; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;40807
4; 1388.8; 19-DEC-2009 21:04:55; Dark ; 50.5; 179; 240mi2CMa ; 3.03; 24000;occ; 101; 0;40807
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7; 1880.8; 19-DEC-2009 21:13:07; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40807
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17; 4342.6; 19-DEC-2009 21:54:09; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40807
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5; 78.6; 19-DEC-2009 22:23:41; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40808
6; 319.9; 19-DEC-2009 22:27:42; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;40808
7; 531.2; 19-DEC-2009 22:31:13; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40808
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26; 4343.0; 19-DEC-2009 23:34:45; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;40808
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6; 320.8; 20-DEC-2009 00:08:19; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40809
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27; 7146.3; 21-DEC-2009 16:35:51; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40832
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13; 3701.8; 21-DEC-2009 18:59:38; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40834

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2; 1565.4; 22-DEC-2009 14:31:13; Dark ; 57.5; 1; 9Alp CMa ; -1.44; 11000;occ; 115; 0;40846
3; 1755.5; 22-DEC-2009 14:34:23; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40846
4; 1879.3; 22-DEC-2009 14:36:27; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40846
5; 2049.8; 22-DEC-2009 14:39:17; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;40846

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7; 2614.7; 22-DEC-2009 14:48:42; Bright; 41.5; 107; 37The Aur ; 2.65; 11000;occ; 83; 0;40846
8; 2713.9; 22-DEC-2009 14:50:22; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40846
9; 3701.2; 22-DEC-2009 15:06:49; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;40846
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12; 4346.0; 22-DEC-2009 15:17:34; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40846
13; 4548.0; 22-DEC-2009 15:20:56; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;40846
14; 4763.6; 22-DEC-2009 15:24:31; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;40846
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21; 6590.7; 22-DEC-2009 15:54:58; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40846
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23; 6772.6; 22-DEC-2009 15:58:00; Dark ; 66.5; 65; Lam Vel ; 2.20; 4400;occ; 133; 0;40846
24; 6876.2; 22-DEC-2009 15:59:44; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40846
25; 7007.1; 22-DEC-2009 16:01:55; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;40846
26; 7152.8; 22-DEC-2009 16:04:20; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;40846
27; 7335.7; 22-DEC-2009 16:07:23; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;40846

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3; 1300.6; 22-DEC-2009 21:09:12; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;40850
4; 1401.2; 22-DEC-2009 21:10:53; Dark ; 51.0; 179; 240mi2CMA ; 3.03; 24000;occ; 102; 0;40850
5; 1566.0; 22-DEC-2009 21:13:38; Dark ; 56.0; 1; 9Alp CMA ; -1.44; 11000;occ; 112; 0;40850
6; 1755.6; 22-DEC-2009 21:16:47; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40850
7; 1879.1; 22-DEC-2009 21:18:51; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40850
8; 2048.9; 22-DEC-2009 21:21:40; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;40850
9; 2292.7; 22-DEC-2009 21:25:44; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40850
10; 2417.5; 22-DEC-2009 21:27:49; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40850
11; 2612.7; 22-DEC-2009 21:31:04; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40850
12; 2712.8; 22-DEC-2009 21:32:44; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40850
13; 3700.9; 22-DEC-2009 21:49:12; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;40850
14; 3957.4; 22-DEC-2009 21:53:29; Bright; 49.0; 32; 77Eps UMa ; 1.76; 11000;occ; 98; 0;40850
15; 4129.1; 22-DEC-2009 21:56:21; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40850
16; 4345.9; 22-DEC-2009 21:59:58; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;40850
17; 4548.5; 22-DEC-2009 22:03:20; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40850
18; 4764.9; 22-DEC-2009 22:06:56; Bright; 64.5; 111; 8Eta Boo ; 2.68; 6000;occ; 129; 0;40850

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4; 93.1; 22-DEC-2009 22:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40851
5; 358.8; 22-DEC-2009 22:34:06; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;40851
6; 556.8; 22-DEC-2009 22:37:24; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40851
7; 663.7; 22-DEC-2009 22:39:11; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;40851
8; 842.6; 22-DEC-2009 22:42:10; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40851
9; 973.6; 22-DEC-2009 22:44:21; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40851
10; 1118.8; 22-DEC-2009 22:46:46; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40851
11; 1300.9; 22-DEC-2009 22:49:48; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;40851
12; 1401.3; 22-DEC-2009 22:51:29; Dark ; 49.0; 179; 240mi2CMA ; 3.03; 24000;occ; 98; 0;40851
13; 1566.0; 22-DEC-2009 22:54:13; Dark ; 53.0; 1; 9Alp CMA ; -1.44; 11000;occ; 106; 0;40851
14; 1755.6; 22-DEC-2009 22:57:23; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40851
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16; 2048.7; 22-DEC-2009 23:02:16; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;40851
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18; 2417.2; 22-DEC-2009 23:08:25; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40851
19; 2612.3; 22-DEC-2009 23:11:40; Bright; 61.0; 107; 37The Aur ; 2.65; 11000;occ; 122; 0;40851
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21; 3701.1; 22-DEC-2009 23:29:49; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40851
22; 3956.9; 22-DEC-2009 23:34:04; Bright; 42.5; 32; 77Eps UMa ; 1.76; 11000;occ; 85; 0;40851
23; 4129.1; 22-DEC-2009 23:36:57; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40851
24; 4345.9; 22-DEC-2009 23:40:33; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;40851
25; 4548.7; 22-DEC-2009 23:43:56; Bright; 54.5; 83; ; 2.38; 11000;occ; 109; 0;40851
26; 4765.4; 22-DEC-2009 23:47:33; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40851

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 4; 93.9; 23-DEC-2009 00:10:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40852
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 6; 557.3; 23-DEC-2009 00:18:01; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;40852
 7; 664.0; 23-DEC-2009 00:19:47; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;40852
 8; 843.1; 23-DEC-2009 00:22:46; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40852
 9; 974.1; 23-DEC-2009 00:24:57; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;40852
 10; 1119.4; 23-DEC-2009 00:27:23; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40852
 11; 1301.1; 23-DEC-2009 00:30:24; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;40852
 12; 1401.5; 23-DEC-2009 00:32:05; Dark ; 49.0; 179; 240mi2CMA ; 3.03; 24000;occ; 98; 0;40852
 13; 1566.1; 23-DEC-2009 00:34:49; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;40852
 14; 1755.8; 23-DEC-2009 00:37:59; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;40852
 15; 1879.0; 23-DEC-2009 00:40:02; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40852
 16; 2048.4; 23-DEC-2009 00:42:52; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;40852
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 18; 2417.0; 23-DEC-2009 00:49:00; Bright; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;40852
 19; 2611.8; 23-DEC-2009 00:52:15; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40852
 20; 2712.5; 23-DEC-2009 00:53:56; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;40852
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 22; 3956.9; 23-DEC-2009 01:14:40; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40852
 23; 4129.0; 23-DEC-2009 01:17:32; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40852
 24; 4346.1; 23-DEC-2009 01:21:09; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40852
 25; 4549.0; 23-DEC-2009 01:24:32; Bright; 56.0; 83; ; 2.38; 11000;occ; 112; 0;40852
 26; 4765.8; 23-DEC-2009 01:28:09; Bright; 65.5; 111; 8Eta Boo ; 2.68; 6000;occ; 131; 0;40852

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 3; 1565.7; 22-DEC-2009 16:11:49; Dark ; 56.0; 1; 9Alp CMA ; -1.44; 11000;occ; 112; 0;40847
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 7; 2293.5; 22-DEC-2009 16:23:57; Bright; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;40847
 8; 2418.3; 22-DEC-2009 16:26:02; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40847
 9; 2614.1; 22-DEC-2009 16:29:18; Bright; 57.5; 107; 37The Aur ; 2.65; 11000;occ; 115; 0;40847
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 12; 3958.5; 22-DEC-2009 16:51:42; Bright; 64.0; 32; 77Eps UMa ; 1.76; 11000;occ; 128; 0;40847
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 14; 4346.0; 22-DEC-2009 16:58:10; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40847
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 19; 5802.2; 22-DEC-2009 17:22:26; Dark ; 64.5; 106; 9Bet Crv ; 2.65; 5600;occ; 129; 0;40847
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 22; 6392.2; 22-DEC-2009 17:32:16; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40847
 23; 6591.3; 22-DEC-2009 17:35:35; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40847
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 27; 7007.6; 22-DEC-2009 17:42:31; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40847

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 4; 1400.7; 22-DEC-2009 17:49:40; Dark ; 49.5; 179; 240mi2CMA ; 3.03; 24000;occ; 99; 0;40848
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 11; 2613.8; 22-DEC-2009 18:09:53; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40848
 12; 2713.3; 22-DEC-2009 18:11:33; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;40848

13; 3701.2; 22-DEC-2009 18:28:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40848
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 16; 4345.9; 22-DEC-2009 18:38:46; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;40848
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 18; 4764.0; 22-DEC-2009 18:45:44; Bright; 65.0; 111; 8Eta Boo ; 2.68; 6000;occ; 130; 0;40848
 19; 5407.5; 22-DEC-2009 18:56:27; Dark ; 55.0; 15; 67Alp Vir ; 0.98; 28000;occ; 110; 0;40848
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 21; 5803.4; 22-DEC-2009 19:03:03; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;40848
 22; 6041.7; 22-DEC-2009 19:07:01; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40848
 23; 6140.3; 22-DEC-2009 19:08:40; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;40848
 24; 6393.1; 22-DEC-2009 19:12:53; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40848
 25; 6591.7; 22-DEC-2009 19:16:11; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40848
 26; 6684.6; 22-DEC-2009 19:17:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40848
 27; 6774.3; 22-DEC-2009 19:19:14; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;40848
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 5; 1401.0; 22-DEC-2009 19:30:17; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;40849
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 25; 4551.4; 24-DEC-2009 00:52:58; Bright; 57.0; 83; ; 2.38; 11000;occ; 114; 0;40866
 26; 4771.3; 24-DEC-2009 00:56:38; Bright; 66.5; 111; 8Eta Boo ; 2.68; 6000;occ; 133; 0;40866

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6; -1269.1; 23-DEC-2009 06:29:58; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;40855
7; -622.0; 23-DEC-2009 06:40:45; Dark ; 56.5; 15; 67Alp Vir ; 0.98; 28000;occ; 113; 0;40855
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9; -223.2; 23-DEC-2009 06:47:24; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;40855
10; 10.6; 23-DEC-2009 06:51:18; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;40856
11; 97.4; 23-DEC-2009 06:52:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40856
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13; 559.9; 23-DEC-2009 07:00:27; Dark ; 49.5; 71; Iot Car ; 2.25; 7700;occ; 99; 0;40856
14; 666.3; 23-DEC-2009 07:02:13; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;40856
15; 845.7; 23-DEC-2009 07:05:13; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40856
16; 976.8; 23-DEC-2009 07:07:24; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;40856
17; 1121.2; 23-DEC-2009 07:09:48; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40856
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19; 1402.7; 23-DEC-2009 07:14:30; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40856
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6; 2610.0; 23-DEC-2009 07:34:37; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;40856
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8; 3700.8; 23-DEC-2009 07:52:48; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;40856
9; 3955.6; 23-DEC-2009 07:57:03; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40856
10; 4128.8; 23-DEC-2009 07:59:56; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;40856
11; 4346.7; 23-DEC-2009 08:03:34; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;40856
12; 4549.7; 23-DEC-2009 08:06:57; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40856
13; 4767.3; 23-DEC-2009 08:10:34; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40856
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16; 5814.2; 23-DEC-2009 08:28:01; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;40856
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19; 6400.3; 23-DEC-2009 08:37:47; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40856
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22; 6882.3; 23-DEC-2009 08:45:49; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;40856
23; 7013.5; 23-DEC-2009 08:48:01; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;40856
24; 7157.5; 23-DEC-2009 08:50:25; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40856
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26; 7438.9; 23-DEC-2009 08:55:06; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40856
27; 7602.9; 23-DEC-2009 08:57:50; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;40856
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5; 2416.1; 23-DEC-2009 09:11:59; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40857
6; 2609.7; 23-DEC-2009 09:15:13; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;40857
7; 2711.3; 23-DEC-2009 09:16:54; Bright; 45.0; 6; 13Alp Aur ; 0.08; 3400;occ; 90; 0;40857
8; 3700.4; 23-DEC-2009 09:33:23; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40857
9; 3955.4; 23-DEC-2009 09:37:38; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40857
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13; 4768.0; 23-DEC-2009 09:51:11; Bright; 47.5; 111; 8Eta Boo ; 2.68; 6000;occ; 95; 0;40857
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16; 5815.4; 23-DEC-2009 10:08:38; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;40857
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18; 6135.0; 23-DEC-2009 10:13:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40857
19; 6401.4; 23-DEC-2009 10:18:24; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;40857
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21; 6703.3; 23-DEC-2009 10:23:26; Dark ; 54.5; 41; Eps Car ; 1.86; 4100;occ; 109; 0;40857
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26; 7439.0; 23-DEC-2009 10:35:42; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40857
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 3; 1878.8; 23-DEC-2009 10:43:38; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40858
 4; 2047.4; 23-DEC-2009 10:46:26; Dark ; 55.5; 14; 58Alp Ori ; 0.87; 3000;occ; 111; 0;40858
 5; 2290.8; 23-DEC-2009 10:50:30; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40858
 6; 2415.7; 23-DEC-2009 10:52:35; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40858
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10; 3955.1; 23-DEC-2009 11:18:14; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40858
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21; 6597.6; 23-DEC-2009 12:02:17; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40858
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23; 6883.4; 23-DEC-2009 12:07:02; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40858
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25; 7158.1; 23-DEC-2009 12:11:37; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40858
26; 7339.6; 23-DEC-2009 12:14:39; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;40858
27; 7439.2; 23-DEC-2009 12:16:18; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40858
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 9; 3700.5; 23-DEC-2009 12:54:35; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;40859
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12; 4347.0; 23-DEC-2009 13:05:22; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40859
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19; 6136.8; 23-DEC-2009 13:35:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40859
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22; 6704.2; 23-DEC-2009 13:44:39; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;40859
23; 6883.9; 23-DEC-2009 13:47:39; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;40859
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13; 3954.3; 23-DEC-2009 16:20:01; Bright; 65.0; 32; 77Eps UMa ; 1.76; 11000;occ; 130; 0;40861
14; 4128.1; 23-DEC-2009 16:22:55; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;40861
15; 4347.2; 23-DEC-2009 16:26:34; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40861
16; 4550.6; 23-DEC-2009 16:29:57; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;40861
17; 4769.7; 23-DEC-2009 16:33:36; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;40861
18; 5419.9; 23-DEC-2009 16:44:27; Dark ; 56.0; 15; 67Alp Vir ; 0.98; 28000;occ; 112; 0;40861
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25; 6705.3; 23-DEC-2009 17:05:52; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;40861
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27; 7016.6; 23-DEC-2009 17:11:03; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;40861
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13; 3700.4; 23-DEC-2009 17:56:23; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40862
14; 3954.0; 23-DEC-2009 18:00:37; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40862
15; 4128.0; 23-DEC-2009 18:03:31; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;40862
16; 4347.2; 23-DEC-2009 18:07:10; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40862
17; 4550.7; 23-DEC-2009 18:10:33; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40862

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 19; 5420.9; 23-DEC-2009 18:25:04; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;40862
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 21; 5822.3; 23-DEC-2009 18:31:45; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40862
 22; 6051.6; 23-DEC-2009 18:35:34; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;40862
 23; 6139.5; 23-DEC-2009 18:37:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40862
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 5; 1404.8; 23-DEC-2009 18:58:43; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40863
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 14; 3700.2; 23-DEC-2009 19:36:59; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40863
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 16; 4127.8; 23-DEC-2009 19:44:06; Bright; 61.0; 39; 85Eta UMA ; 1.85; 24000;occ; 122; 0;40863
 17; 4347.0; 23-DEC-2009 19:47:46; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40863
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 19; 4770.0; 23-DEC-2009 19:54:49; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40863
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 22; 5823.8; 23-DEC-2009 20:12:23; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40863
 23; 6052.0; 23-DEC-2009 20:16:11; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;40863
 24; 6140.3; 23-DEC-2009 20:17:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40863
 25; 6406.8; 23-DEC-2009 20:22:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40863
 26; 6600.5; 23-DEC-2009 20:25:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40863
 27; 6706.2; 23-DEC-2009 20:27:05; Dark ; 55.5; 41; Eps Car ; 1.86; 4100;occ; 111; 0;40863
 28; 6886.5; 23-DEC-2009 20:30:05; Dark ; 17.0; 34; Gam2Vel ; 1.79; 23000;occ; 34; 0;40863

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 3; -224.5; 24-DEC-2009 01:13:58; Dark ; 45.5; 123; Iot Cen ; 2.75; 10200;occ; 91; 0;40866
 4; 18.5; 24-DEC-2009 01:18:01; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40867
 5; 107.0; 24-DEC-2009 01:19:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40867
 6; 373.5; 24-DEC-2009 01:23:56; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;40867
 7; 566.3; 24-DEC-2009 01:27:09; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40867
 8; 671.7; 24-DEC-2009 01:28:54; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;40867
 9; 852.4; 24-DEC-2009 01:31:55; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40867
 10; 983.8; 24-DEC-2009 01:34:06; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40867
 11; 1126.1; 24-DEC-2009 01:36:28; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40867
 12; 1306.6; 24-DEC-2009 01:39:29; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;40867
 13; 1405.7; 24-DEC-2009 01:41:08; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40867
 14; 1568.1; 24-DEC-2009 01:43:50; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;40867
 15; 1757.2; 24-DEC-2009 01:46:59; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;40867
 16; 1878.9; 24-DEC-2009 01:49:01; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40867
 17; 2045.7; 24-DEC-2009 01:51:48; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;40867
 18; 2288.8; 24-DEC-2009 01:55:51; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40867
 19; 2413.3; 24-DEC-2009 01:57:56; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40867
 20; 2605.2; 24-DEC-2009 02:01:07; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;40867
 21; 2709.0; 24-DEC-2009 02:02:51; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40867
 22; 3699.8; 24-DEC-2009 02:19:22; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;40867
 23; 3952.3; 24-DEC-2009 02:23:35; Bright; 47.0; 32; 77Eps UMA ; 1.76; 11000;occ; 94; 0;40867
 24; 4127.1; 24-DEC-2009 02:26:29; Bright; 53.5; 39; 85Eta UMA ; 1.85; 24000;occ; 107; 0;40867

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9; 107.9; 24-DEC-2009 03:00:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40868
10; 374.6; 24-DEC-2009 03:04:33; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40868
11; 566.9; 24-DEC-2009 03:07:45; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40868
12; 672.3; 24-DEC-2009 03:09:31; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;40868
13; 852.9; 24-DEC-2009 03:12:31; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40868
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15; 1126.6; 24-DEC-2009 03:17:05; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40868
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17; 1406.1; 24-DEC-2009 03:21:44; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40868
18; 1568.0; 24-DEC-2009 03:24:26; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;40868
19; 1757.4; 24-DEC-2009 03:27:36; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40868
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21; 2045.8; 24-DEC-2009 03:32:24; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40868
22; 2288.7; 24-DEC-2009 03:36:27; Bright; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;40868
23; 2413.4; 24-DEC-2009 03:38:32; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;40868
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25; 2709.1; 24-DEC-2009 03:43:27; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40868

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9; -341.3; 24-DEC-2009 04:33:13; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;40868
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11; 20.0; 24-DEC-2009 04:39:14; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40869
12; 108.7; 24-DEC-2009 04:40:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40869
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21; 1568.2; 24-DEC-2009 05:05:02; Dark ; 53.5; 1; 9Alp CMa ; -1.44; 11000;occ; 107; 0;40869
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24; 2045.5; 24-DEC-2009 05:13:00; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;40869
25; 2288.4; 24-DEC-2009 05:17:03; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40869
26; 2413.1; 24-DEC-2009 05:19:07; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40869
27; 2604.3; 24-DEC-2009 05:22:19; Bright; 41.5; 107; 37The Aur ; 2.65; 11000;occ; 83; 0;40869
28; 2708.8; 24-DEC-2009 05:24:03; Bright; 55.0; 6; 13Alp Aur ; 0.08; 3400;occ; 110; 0;40869
29; 3699.8; 24-DEC-2009 05:40:34; Bright; 26.0; 60; 7Bet UMi ; 2.08; 3950;occ; 52; 0;40869

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13; 4558.2; 26-DEC-2009 11:34:02; Bright; 58.0; 83; ; 2.38; 11000;occ; 116; 0;40901
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13; 4558.2; 26-DEC-2009 13:14:38; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;40902
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27; 4562.6; 27-DEC-2009 22:46:41; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;40922
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24; 4119.3; 28-DEC-2009 00:19:54; Bright; 50.0; 39; 85Eta UMa ; 1.85; 24000;occ; 100; 0;40923
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26; 4562.6; 28-DEC-2009 00:27:17; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;40923
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 27; 4351.3; 28-DEC-2009 22:11:33; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;40936
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 31; 5328.7; 28-DEC-2009 22:27:51; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;40936

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091228_222804_000059232085_00301_40936_9221.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091228_130218_000059262085_00296_40931_5890.N1

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 13; 4118.0; 28-DEC-2009 13:44:40; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;40931
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 19; 5733.2; 28-DEC-2009 14:11:35; Dark ; 54.5; 54; 5The Cen ; 2.06; 4500;occ; 109; 0;40931
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091228_144027_000059462085_00297_40932_5891.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091228_161921_000058802085_00298_40933_5892.N1

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 17; 4564.6; 28-DEC-2009 17:13:18; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;40933
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 19; 5327.4; 28-DEC-2009 17:26:01; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;40933
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 21; 5734.4; 28-DEC-2009 17:32:48; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;40933
 22; 5904.5; 28-DEC-2009 17:35:38; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;40933
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 25; 6470.1; 28-DEC-2009 17:45:04; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;40933
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28; 6927.2; 28-DEC-2009 17:52:41; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40933
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091230_165230_000060462085_00327_40962_5909.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091230_183246_000060282085_00328_40963_5910.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091231_004623_000054882085_00331_40966_9236.N1

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 13; 1430.4; 31-DEC-2009 01:21:26; Dark ; 44.0; 179; 240mi2CMa ; 3.03; 24000;occ; 88; 0;40967
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19; 2331.9; 31-DEC-2009 01:36:27; Bright; 50.5; 151; 13Mu Gem ; 2.89; 3000;occ; 101; 0;40967
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22; 2693.8; 31-DEC-2009 01:42:29; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40967
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4; 95.8; 31-DEC-2009 02:39:47; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;40968
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9; 909.4; 31-DEC-2009 02:53:21; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;40968
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11; 1167.7; 31-DEC-2009 02:57:39; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;40968
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13; 1430.6; 31-DEC-2009 03:02:02; Dark ; 45.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 91; 0;40968
14; 1580.1; 31-DEC-2009 03:04:32; Dark ; 46.5; 1; 9Alp CMa ;-1.44; 11000;occ; 93; 0;40968
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16; 909.9; 31-DEC-2009 04:33:57; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;40969
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