

GOMOS Daily Report 09-FEB-2010

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	11FEB2010 04:32:56
Data source version	GOMOS/5.00L04
Start time of products	09FEB2010 00:05:40
Stop time of products	09FEB2010 23:53:18
Store outputs in DB	Yes
Nb of level 1b prods	58
Nb of prods with errors	1

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

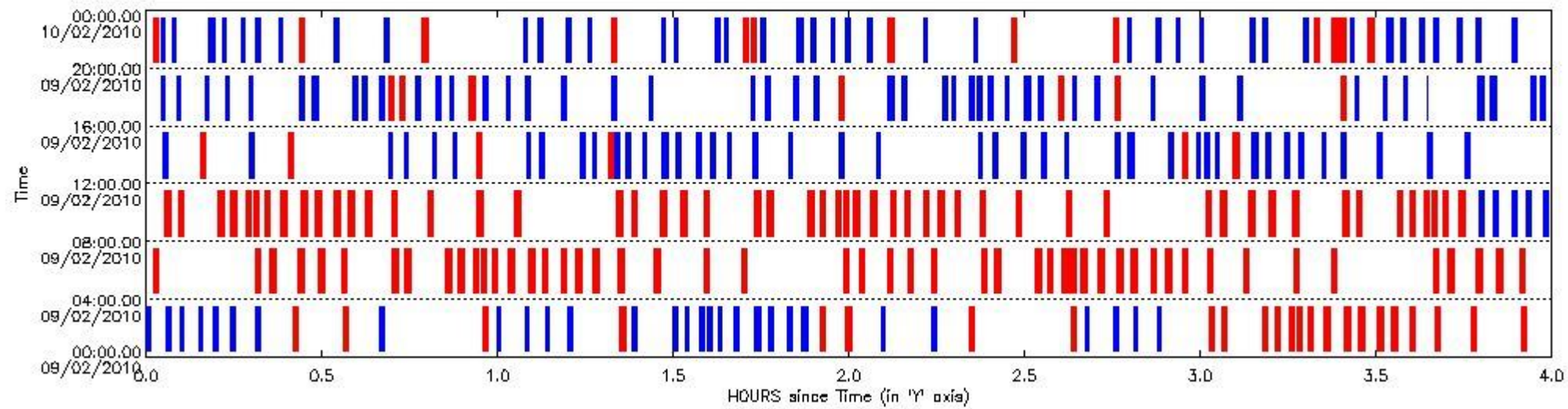
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
09-FEB-2010 00:25:00	15RhoPup	132	41539
09-FEB-2010 00:33:31	10AlpCMi	8	41539
09-FEB-2010 00:57:21	1AlpUMi	49	41539
09-FEB-2010 01:20:47	55AlpOph	59	41539
09-FEB-2010 01:55:06	lotCar	71	41540
09-FEB-2010 01:59:25	LamVel	65	41540
09-FEB-2010 02:20:32	78BetGem	17	41540
09-FEB-2010 02:37:57	1AlpUMi	49	41540
09-FEB-2010 03:01:23	55AlpOph	59	41540
09-FEB-2010 03:03:35	60BetOph	126	41540
09-FEB-2010 03:10:30	35EtaOph	86	41540
09-FEB-2010 03:12:39	10Gam2Sgr	167	41540
09-FEB-2010 03:15:12	35LamSco	25	41540
09-FEB-2010 03:16:34	TheSco	40	41540
09-FEB-2010 03:18:24	AlpAra	147	41540

09-FEB-2010 03:21:09	GamLup	131	41540
09-FEB-2010 03:24:35	DSA1027	0	41541
09-FEB-2010 03:27:01	BetCen	10	41541
09-FEB-2010 03:30:15	Alp1Cru	12	41541
09-FEB-2010 03:32:43	DelCen	99	41541
09-FEB-2010 03:35:42	lotCar	71	41541
09-FEB-2010 03:40:01	LamVel	65	41541
09-FEB-2010 03:46:12	15RhoPup	132	41541
09-FEB-2010 03:54:43	10AlpCMi	8	41541
09-FEB-2010 04:01:08	78BetGem	17	41541
09-FEB-2010 04:18:33	1AlpUMi	49	41541
09-FEB-2010 04:21:06	7BetUMi	60	41541
09-FEB-2010 04:25:56	14EtaDra	119	41541
09-FEB-2010 04:29:26	23BetDra	130	41541
09-FEB-2010 04:33:23	3AlpLyr	5	41541
09-FEB-2010 04:42:00	55AlpOph	59	41541
09-FEB-2010 04:44:11	60BetOph	126	41541
09-FEB-2010 04:51:06	35EtaOph	86	41541
09-FEB-2010 04:53:16	10Gam2Sgr	167	41541
09-FEB-2010 04:55:48	35LamSco	25	41541
09-FEB-2010 04:57:10	TheSco	40	41541
09-FEB-2010 04:59:00	AlpAra	147	41541
09-FEB-2010 05:01:46	GamLup	131	41541
09-FEB-2010 05:05:11	DSA1027	0	41542
09-FEB-2010 05:07:37	BetCen	10	41542
09-FEB-2010 05:10:52	Alp1Cru	12	41542
09-FEB-2010 05:13:19	DelCen	99	41542
09-FEB-2010 05:16:18	lotCar	71	41542
09-FEB-2010 05:20:37	LamVel	65	41542
09-FEB-2010 05:26:48	15RhoPup	132	41542
09-FEB-2010 05:35:19	10AlpCMi	8	41542
09-FEB-2010 05:41:44	78BetGem	17	41542
09-FEB-2010 05:59:09	1AlpUMi	49	41542
09-FEB-2010 06:01:42	7BetUMi	60	41542
09-FEB-2010 06:06:32	14EtaDra	119	41542
09-FEB-2010 06:10:02	23BetDra	130	41542
09-FEB-2010 06:13:59	3AlpLyr	5	41542
09-FEB-2010 06:22:36	55AlpOph	59	41542
09-FEB-2010 06:24:48	60BetOph	126	41542
09-FEB-2010 06:31:43	35EtaOph	86	41542
09-FEB-2010 06:33:52	10Gam2Sgr	167	41542
09-FEB-2010 06:36:24	35LamSco	25	41542
09-FEB-2010 06:37:47	TheSco	40	41542
09-FEB-2010 06:39:36	AlpAra	147	41542
09-FEB-2010 06:42:22	GamLup	131	41542
09-FEB-2010 06:45:48	DSA1027	0	41543
09-FEB-2010 06:48:14	BetCen	10	41543
09-FEB-2010 06:51:28	Alp1Cru	12	41543
09-FEB-2010 06:53:56	DelCen	99	41543
09-FEB-2010 06:56:54	lotCar	71	41543
09-FEB-2010 07:01:13	LamVel	65	41543
09-FEB-2010 07:07:24	15RhoPup	132	41543
09-FEB-2010 07:15:55	10AlpCMi	8	41543
09-FEB-2010 07:22:20	78BetGem	17	41543
09-FEB-2010 07:39:45	1AlpUMi	49	41543
09-FEB-2010 07:42:18	7BetUMi	60	41543
09-FEB-2010 07:47:07	14EtaDra	119	41543
09-FEB-2010 07:50:38	23BetDra	130	41543
09-FEB-2010 07:54:35	3AlpLyr	5	41543

09-FEB-2010 08:03:12	55AlpOph	59	41543
09-FEB-2010 08:05:24	60BetOph	126	41543
09-FEB-2010 08:12:19	35EtaOph	86	41543
09-FEB-2010 08:14:28	10Gam2Sgr	167	41543
09-FEB-2010 08:17:01	35LamSco	25	41543
09-FEB-2010 08:18:23	TheSco	40	41543
09-FEB-2010 08:20:12	AlpAra	147	41543
09-FEB-2010 08:22:59	GamLup	131	41543
09-FEB-2010 08:26:25	DSA1027	0	41544
09-FEB-2010 08:28:50	BetCen	10	41544
09-FEB-2010 08:32:05	Alp1Cru	12	41544
09-FEB-2010 08:34:33	DelCen	99	41544
09-FEB-2010 08:37:31	lotCar	71	41544
09-FEB-2010 08:41:50	LamVel	65	41544
09-FEB-2010 08:48:00	15RhoPup	132	41544
09-FEB-2010 08:56:31	10AlpCMi	8	41544
09-FEB-2010 09:02:56	78BetGem	17	41544
09-FEB-2010 09:20:21	1AlpUMi	49	41544
09-FEB-2010 09:22:53	7BetUMi	60	41544
09-FEB-2010 09:27:43	14EtaDra	119	41544
09-FEB-2010 09:31:14	23BetDra	130	41544
09-FEB-2010 09:35:11	3AlpLyr	5	41544
09-FEB-2010 09:43:48	55AlpOph	59	41544
09-FEB-2010 09:46:00	60BetOph	126	41544
09-FEB-2010 09:52:56	35EtaOph	86	41544
09-FEB-2010 09:55:04	10Gam2Sgr	167	41544
09-FEB-2010 09:57:37	35LamSco	25	41544
09-FEB-2010 09:58:59	TheSco	40	41544
09-FEB-2010 10:00:49	AlpAra	147	41544
09-FEB-2010 10:03:36	GamLup	131	41544
09-FEB-2010 10:07:01	DSA1027	0	41545
09-FEB-2010 10:09:27	BetCen	10	41545
09-FEB-2010 10:12:41	Alp1Cru	12	41545
09-FEB-2010 10:15:09	DelCen	99	41545
09-FEB-2010 10:18:07	lotCar	71	41545
09-FEB-2010 10:22:26	LamVel	65	41545
09-FEB-2010 10:28:36	15RhoPup	132	41545
09-FEB-2010 10:37:07	10AlpCMi	8	41545
09-FEB-2010 10:43:32	78BetGem	17	41545
09-FEB-2010 11:00:57	1AlpUMi	49	41545
09-FEB-2010 11:03:29	7BetUMi	60	41545
09-FEB-2010 11:08:19	14EtaDra	119	41545
09-FEB-2010 11:11:49	23BetDra	130	41545
09-FEB-2010 11:15:47	3AlpLyr	5	41545
09-FEB-2010 11:24:25	55AlpOph	59	41545
09-FEB-2010 11:26:37	60BetOph	126	41545
09-FEB-2010 11:33:33	35EtaOph	86	41545
09-FEB-2010 11:35:41	10Gam2Sgr	167	41545
09-FEB-2010 11:38:14	35LamSco	25	41545
09-FEB-2010 11:39:36	TheSco	40	41545
09-FEB-2010 11:41:25	AlpAra	147	41545
09-FEB-2010 11:44:13	GamLup	131	41545
09-FEB-2010 12:09:12	15RhoPup	132	41546
09-FEB-2010 12:24:08	78BetGem	17	41546
09-FEB-2010 12:56:23	3AlpLyr	5	41546
09-FEB-2010 13:18:50	35LamSco	25	41546
09-FEB-2010 14:56:53	10Gam2Sgr	167	41547
09-FEB-2010 15:05:27	GamLup	131	41547
09-FEB-2010 16:41:25	TheSco	40	41548

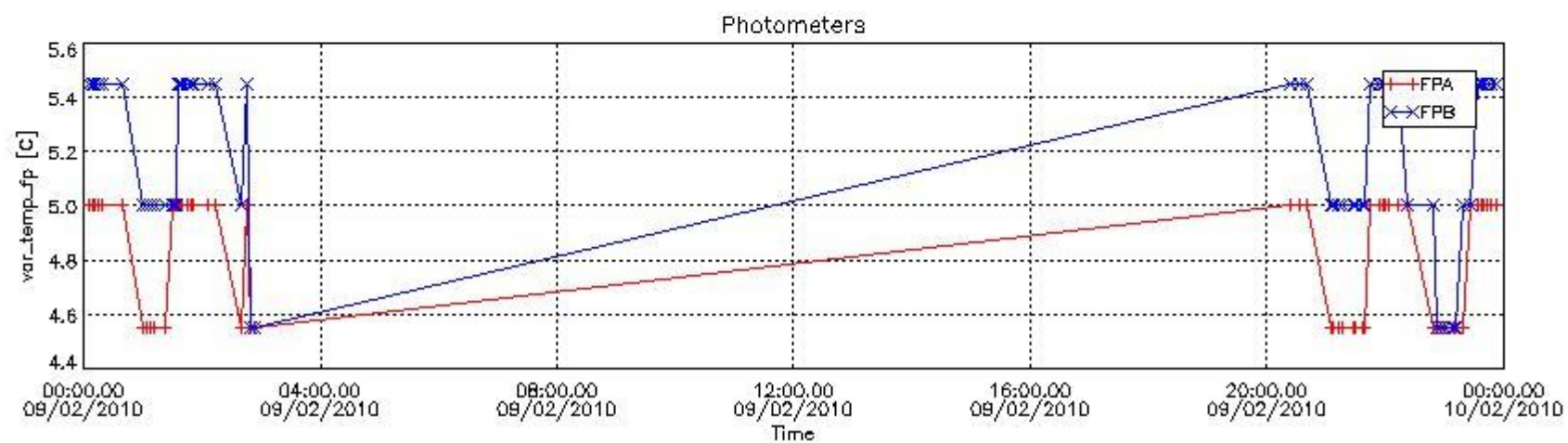
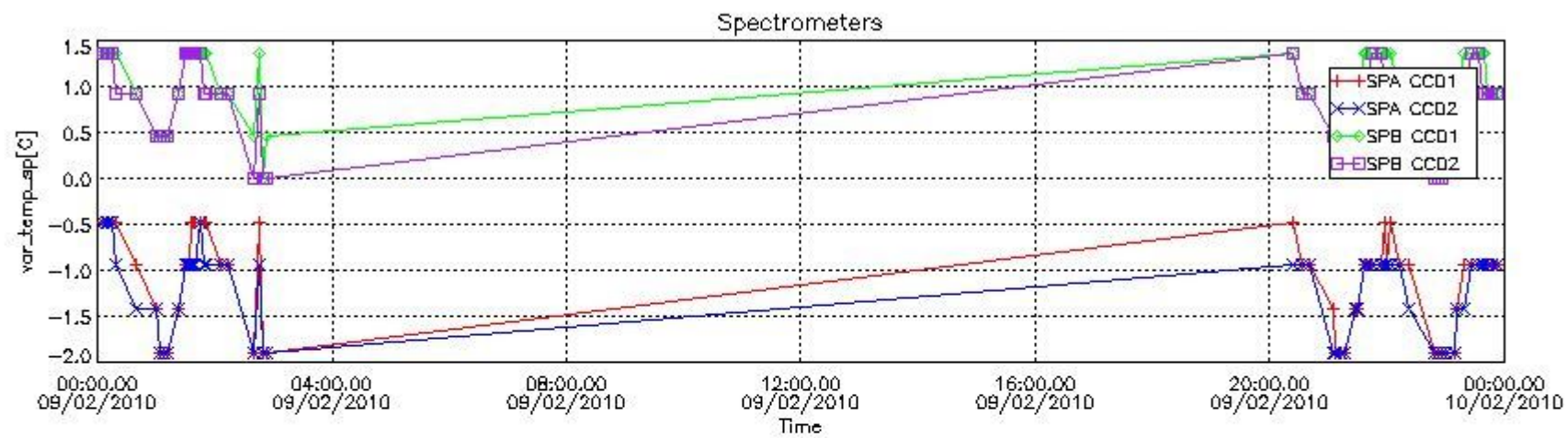
09-FEB-2010 16:43:14	AlpAra	147	41548
09-FEB-2010 16:55:07	Alp1Cru	12	41549
09-FEB-2010 17:58:11	3AlpLyr	5	41549
09-FEB-2010 18:35:43	Alp1Cru	12	41550
09-FEB-2010 18:45:27	LamVel	65	41550
09-FEB-2010 19:23:56	1AlpUMi	49	41550
09-FEB-2010 20:01:16	35LamSco	25	41550
09-FEB-2010 20:26:03	LamVel	65	41551
09-FEB-2010 20:47:08	78BetGem	17	41551
09-FEB-2010 21:19:23	3AlpLyr	5	41551
09-FEB-2010 21:41:52	35LamSco	25	41551
09-FEB-2010 21:43:14	TheSco	40	41551
09-FEB-2010 22:06:39	LamVel	65	41552
09-FEB-2010 22:27:43	78BetGem	17	41552
09-FEB-2010 22:45:08	1AlpUMi	49	41552
09-FEB-2010 23:19:26	19DelSgr	116	41552
09-FEB-2010 23:22:29	35LamSco	25	41552
09-FEB-2010 23:23:50	TheSco	40	41552
09-FEB-2010 23:28:31	GamLup	131	41552

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_1PNPDE20100209_000540_000000432086_00403_41539_9647.N1	09-FEB-2010 00:05:40	Dark	42.500	10	Bet Cen	0.61000	28000.	85	41539	No
2	GOM_TRA_1PNPDE20100209_000855_000000452086_00403_41539_9648.N1	09-FEB-2010 00:08:55	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	41539	No
3	GOM_TRA_1PNPDE20100209_001122_000000442086_00403_41539_9649.N1	09-FEB-2010 00:11:22	Dark	44.000	99	Del Cen	2.5750	26000.	88	41539	No
4	GOM_TRA_1PNPDE20100209_001422_000000422086_00403_41539_9650.N1	09-FEB-2010 00:14:22	Dark	41.500	71	lot Car	2.2460	7700.0	83	41539	No
5	GOM_TRA_1PNPDE20100209_001841_000000462086_00403_41539_9651.N1	09-FEB-2010 00:18:41	Straylight	45.500	65	Lam Vel	2.2040	4400.0	91	41539	No
6	GOM_TRA_1PNPDE20100209_003949_000000402086_00403_41539_9652.N1	09-FEB-2010 00:39:49	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	41539	No
7	GOM_TRA_1PNPDE20100209_005948_000000382086_00403_41539_9653.N1	09-FEB-2010 00:59:48	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	41539	No
8	GOM_TRA_1PNPDE20100209_010437_000000422086_00403_41539_9654.N1	09-FEB-2010 01:04:37	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	41539	No
9	GOM_TRA_1PNPDE20100209_010807_000000402086_00403_41539_9655.N1	09-FEB-2010 01:08:07	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	41539	No
10	GOM_TRA_1PNPDE20100209_011204_000000382086_00403_41539_9656.N1	09-FEB-2010 01:12:04	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	41539	No
11	GOM_TRA_1PNPDE20100209_012252_000000482086_00403_41539_9657.N1	09-FEB-2010 01:22:52	Bright	48.000	126	60Bet Oph	2.7700	4250.0	96	41539	No
12	GOM_TRA_1PNPDE20100209_012946_000000492086_00403_41539_9664.N1	09-FEB-2010 01:29:46	Dark	48.500	86	35Eta Oph	2.4300	10200.	97	41539	No
13	GOM_TRA_1PNPDE20100209_013156_000000422086_00403_41539_9665.N1	09-FEB-2010 01:31:56	Dark	41.500	167	10Gam2Sgr	2.9840	4500.0	83	41539	No
14	GOM_TRA_1PNPDE20100209_013428_000000432086_00403_41539_9666.N1	09-FEB-2010 01:34:28	Dark	42.500	25	35Lam Sco	1.6200	28000.	85	41539	No
15	GOM_TRA_1PNPDE20100209_013551_000000422086_00403_41539_9667.N1	09-FEB-2010 01:35:51	Dark	42.000	40	The Sco	1.8590	7100.0	84	41539	No
16	GOM_TRA_1PNPDE20100209_013740_000000382086_00403_41539_9668.N1	09-FEB-2010 01:37:40	Dark	37.500	147	Alp Ara	2.8770	26000.	75	41539	No
17	GOM_TRA_1PNPDE20100209_014025_000000492086_00403_41539_9669.N1	09-FEB-2010 01:40:25	Dark	49.000	131	Gam Lup	2.8000	26000.	98	41539	No
18	GOM_TRA_1PNPDE20100209_014617_000000432086_00404_41540_9670.N1	09-FEB-2010 01:46:17	Dark	43.000	10	Bet Cen	0.61000	28000.	86	41540	No
19	GOM_TRA_1PNPDE20100209_014932_000000402086_00404_41540_9671.N1	09-FEB-2010 01:49:32	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	41540	No
20	GOM_TRA_1PNPDE20100209_015159_000000522086_00404_41540_9672.N1	09-FEB-2010 01:51:59	Dark	52.000	99	Del Cen	2.5750	26000.	104	41540	No
21	GOM_TRA_1PNPDE20100209_020528_000000422086_00404_41540_9673.N1	09-FEB-2010 02:05:28	Straylight	41.500	132	15Rho Pup	2.8030	6900.0	83	41540	No
22	GOM_TRA_1PNPDE20100209_021400_000000502086_00404_41540_9674.N1	09-FEB-2010 02:14:00	Tw_i_and_stray	50.000	8	10Alp CMi	0.40000	6500.0	100	41540	No
23	GOM_TRA_1PNPDE20100209_024024_000000382086_00404_41540_9675.N1	09-FEB-2010 02:40:24	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	41540	No
24	GOM_TRA_1PNPDE20100209_024513_000000432086_00404_41540_9693.N1	09-FEB-2010 02:45:13	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	41540	Yes
25	GOM_TRA_1PNPDE20100209_024843_000000372086_00404_41540_9694.N1	09-FEB-2010 02:48:43	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	41540	No
26	GOM_TRA_1PNPDE20100209_025240_000000372086_00404_41540_9695.N1	09-FEB-2010 02:52:40	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	41540	No
27	GOM_TRA_1PNPDE20100209_202237_000000392086_00415_41551_9826.N1	09-FEB-2010 20:22:37	Dark	38.500	91	Kap Vel	2.4900	26000.	77	41551	No
28	GOM_TRA_1PNPDE20100209_203206_000000412086_00415_41551_9827.N1	09-FEB-2010 20:32:06	Straylight	41.000	132	15Rho Pup	2.8030	6900.0	82	41551	No
29	GOM_TRA_1PNPDE20100209_204036_000000502086_00415_41551_9828.N1	09-FEB-2010 20:40:36	Tw_i_and_stray	49.500	8	10Alp CMi	0.40000	6500.0	99	41551	No
30	GOM_TRA_1PNPDE20100209_210425_000000332086_00415_41551_9829.N1	09-FEB-2010 21:04:25	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	41551	No
31	GOM_TRA_1PNPDE20100209_210656_000000372086_00415_41551_9830.N1	09-FEB-2010 21:06:56	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	41551	No
32	GOM_TRA_1PNPDE20100209_211146_000000452086_00415_41551_9831.N1	09-FEB-2010 21:11:46	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	41551	No
33	GOM_TRA_1PNPDE20100209_211518_000000392086_00415_41551_9832.N1	09-FEB-2010 21:15:18	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	41551	No
34	GOM_TRA_1PNPDE20100209_212756_000000402086_00415_41551_9833.N1	09-FEB-2010 21:27:56	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	41551	No
35	GOM_TRA_1PNPDE20100209_213008_000000432086_00415_41551_9834.N1	09-FEB-2010 21:30:08	Bright	42.500	126	60Bet Oph	2.7700	4250.0	85	41551	No

36	GOM_TRA_1PNPDE20100209_213705_000000462086_00415_41551_9846.N1	09-FEB-2010 21:37:05	Dark	46.000	86	35Eta Oph	2.4300	10200.	92	41551	No
37	GOM_TRA_1PNPDE20100209_213843_000000402086_00415_41551_9847.N1	09-FEB-2010 21:38:43	Twilight	40.000	116	19Del Sgr	2.7000	4100.0	80	41551	No
38	GOM_TRA_1PNPDE20100209_214456_000000412086_00415_41551_9848.N1	09-FEB-2010 21:44:56	Dark	40.500	147	Alp Ara	2.8770	26000.	81	41551	No
39	GOM_TRA_1PNPDE20100209_215336_000000422086_00416_41552_9849.N1	09-FEB-2010 21:53:36	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41552	No
40	GOM_TRA_1PNPDE20100209_215649_000000412086_00416_41552_9850.N1	09-FEB-2010 21:56:49	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	41552	No
41	GOM_TRA_1PNPDE20100209_215919_000000472086_00416_41552_9851.N1	09-FEB-2010 21:59:19	Dark	47.000	99	Del Cen	2.5750	26000.	94	41552	No
42	GOM_TRA_1PNPDE20100209_220313_000000382086_00416_41552_9852.N1	09-FEB-2010 22:03:13	Dark	38.000	91	Kap Vel	2.4900	26000.	76	41552	No
43	GOM_TRA_1PNPDE20100209_221242_000000422086_00416_41552_9853.N1	09-FEB-2010 22:12:42	Straylight	41.500	132	15Rho Pup	2.8030	6900.0	83	41552	No
44	GOM_TRA_1PNPDE20100209_222112_000000462086_00416_41552_9854.N1	09-FEB-2010 22:21:12	Twilight_and_stray	45.500	8	10Alp CMi	0.40000	6500.0	91	41552	No
45	GOM_TRA_1PNPDE20100209_224731_000000432086_00416_41552_9855.N1	09-FEB-2010 22:47:31	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	41552	No
46	GOM_TRA_1PNPDE20100209_225221_000000442086_00416_41552_9856.N1	09-FEB-2010 22:52:21	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	41552	No
47	GOM_TRA_1PNPDE20100209_225553_000000382086_00416_41552_9857.N1	09-FEB-2010 22:55:53	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	41552	No
48	GOM_TRA_1PNPDE20100209_225952_000000392086_00416_41552_9858.N1	09-FEB-2010 22:59:52	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	41552	No
49	GOM_TRA_1PNPDE20100209_230832_000000432086_00416_41552_9859.N1	09-FEB-2010 23:08:32	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	41552	No
50	GOM_TRA_1PNPDE20100209_231044_000000442086_00416_41552_9860.N1	09-FEB-2010 23:10:44	Bright	43.500	126	60Bet Oph	2.7700	4250.0	87	41552	No
51	GOM_TRA_1PNPDE20100209_231742_000000472086_00416_41552_9865.N1	09-FEB-2010 23:17:42	Dark	46.500	86	35Eta Oph	2.4300	10200.	93	41552	No
52	GOM_TRA_1PNPDE20100209_232532_000000382086_00416_41552_9866.N1	09-FEB-2010 23:25:32	Dark	37.500	147	Alp Ara	2.8770	26000.	75	41552	No
53	GOM_TRA_1PNPDE20100209_233412_000000412086_00417_41553_9867.N1	09-FEB-2010 23:34:12	Dark	41.000	10	Bet Cen	0.61000	28000.	82	41553	No
54	GOM_TRA_1PNPDE20100209_233725_000000452086_00417_41553_9868.N1	09-FEB-2010 23:37:25	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	41553	No
55	GOM_TRA_1PNPDE20100209_233955_000000442086_00417_41553_9869.N1	09-FEB-2010 23:39:55	Dark	44.000	99	Del Cen	2.5750	26000.	88	41553	No
56	GOM_TRA_1PNPDE20100209_234349_000000432086_00417_41553_9870.N1	09-FEB-2010 23:43:49	Dark	42.500	91	Kap Vel	2.4900	26000.	85	41553	No
57	GOM_TRA_1PNPDE20100209_234708_000000482086_00417_41553_9871.N1	09-FEB-2010 23:47:08	Straylight	48.000	65	Lam Vel	2.2040	4400.0	96	41553	No
58	GOM_TRA_1PNPDE20100209_235318_000000422086_00417_41553_9872.N1	09-FEB-2010 23:53:18	Straylight	41.500	132	15Rho Pup	2.8030	6900.0	83	41553	No

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



4. Overview of dark signal processing per product

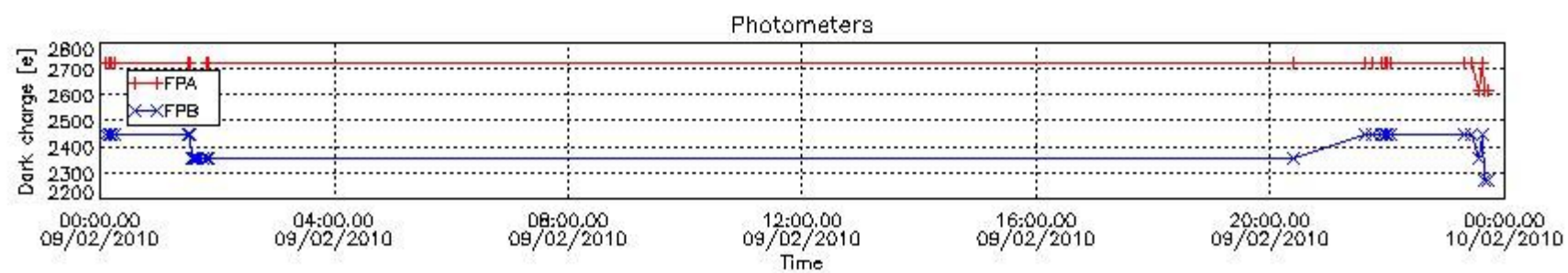
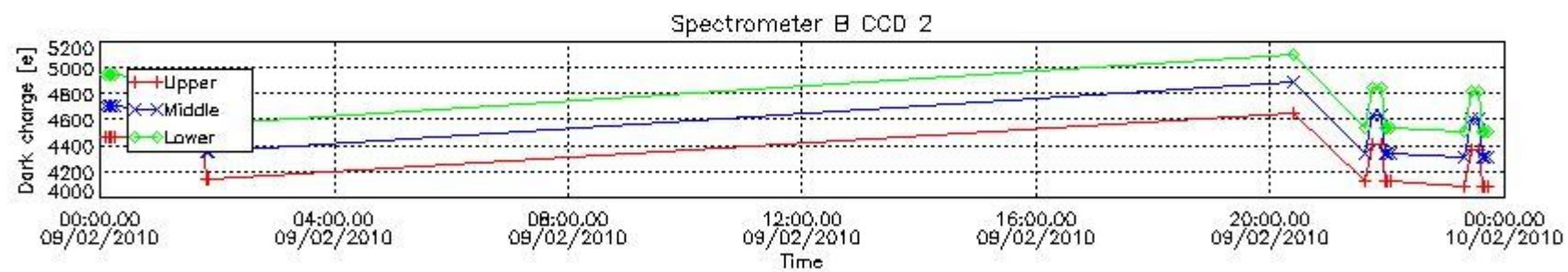
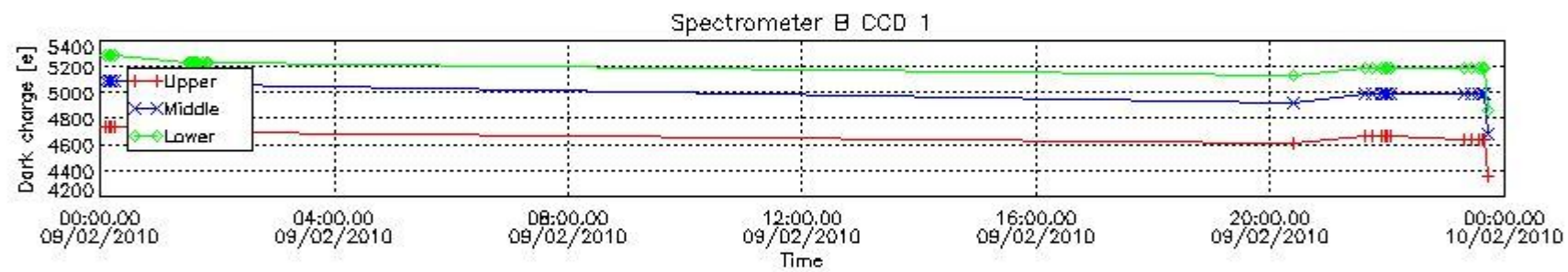
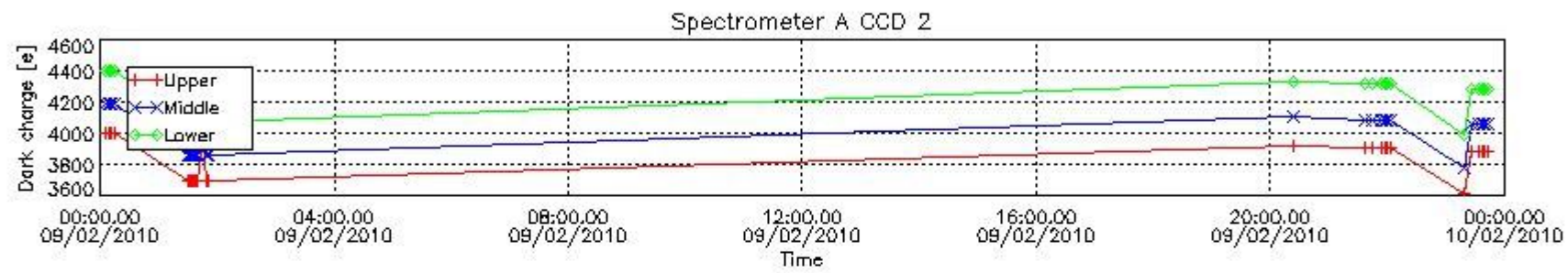
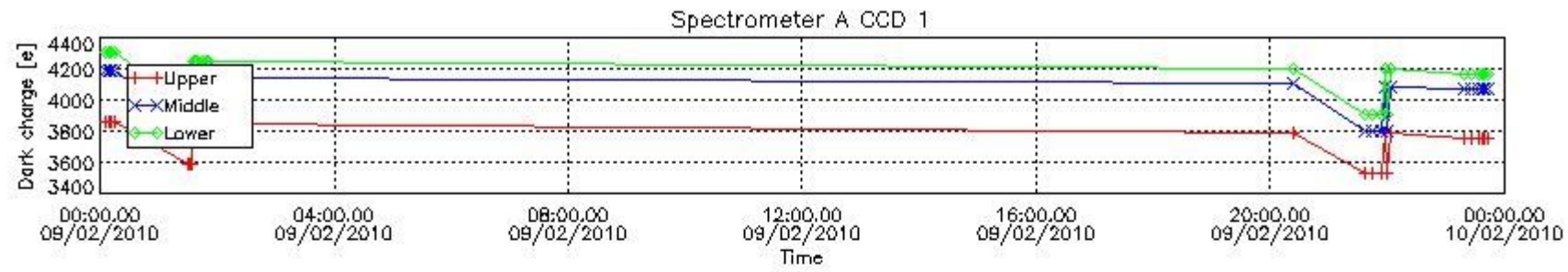
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100209_024513_000000432086_00404_41540_9693.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100209_024843_000000372086_00404_41540_9694.N1	DC map used
GOM_TRA_1PNPDE20100209_025240_000000372086_00404_41540_9695.N1	DC map used
GOM_TRA_1PNPDE20100209_202237_000000392086_00415_41551_9826.N1	DC map used
GOM_TRA_1PNPDE20100209_203206_000000412086_00415_41551_9827.N1	DC map used
GOM_TRA_1PNPDE20100209_204036_000000502086_00415_41551_9828.N1	DC map used
GOM_TRA_1PNPDE20100209_210425_000000332086_00415_41551_9829.N1	DC map used
GOM_TRA_1PNPDE20100209_210656_000000372086_00415_41551_9830.N1	DC map used
GOM_TRA_1PNPDE20100209_211146_000000452086_00415_41551_9831.N1	DC map used
GOM_TRA_1PNPDE20100209_211518_000000392086_00415_41551_9832.N1	DC map used
GOM_TRA_1PNPDE20100209_212756_000000402086_00415_41551_9833.N1	DC map used
GOM_TRA_1PNPDE20100209_213008_000000432086_00415_41551_9834.N1	DC map used

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



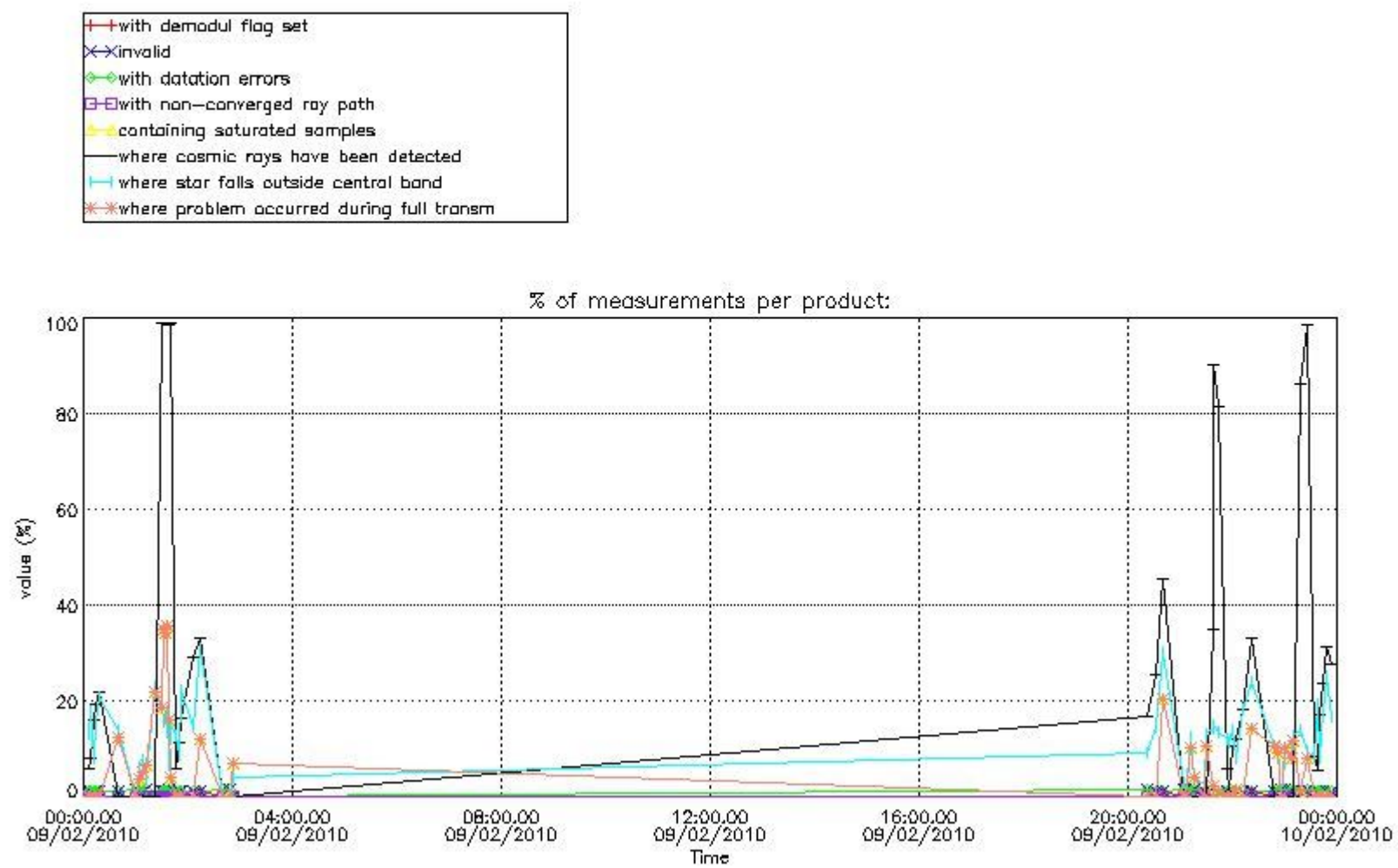
5. Demodulation flag and quality information monitoring

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.

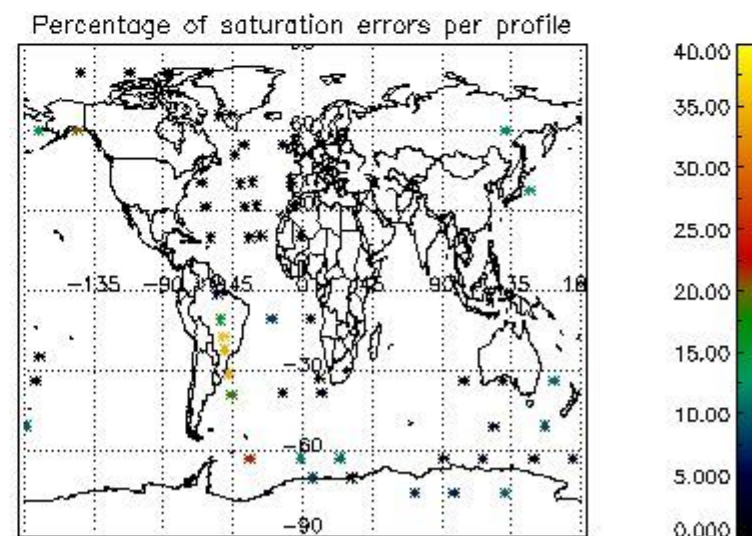
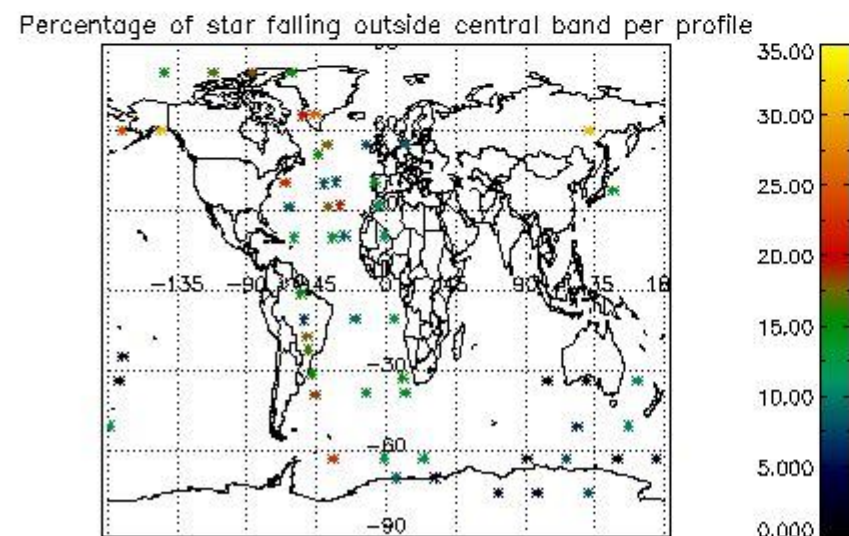
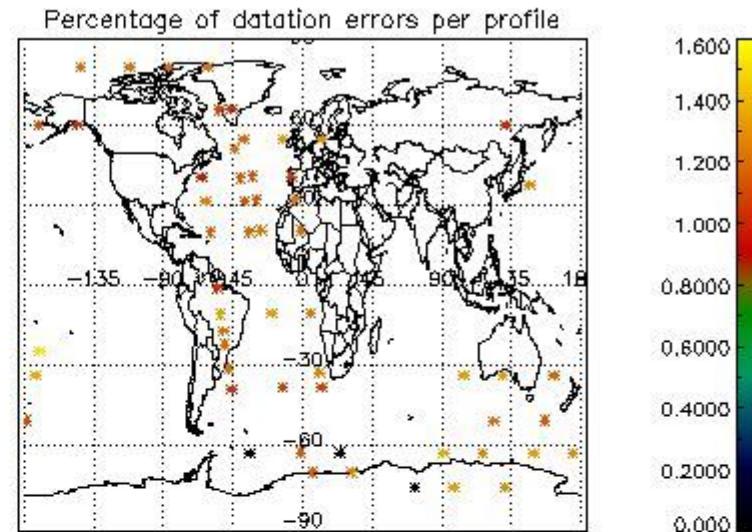
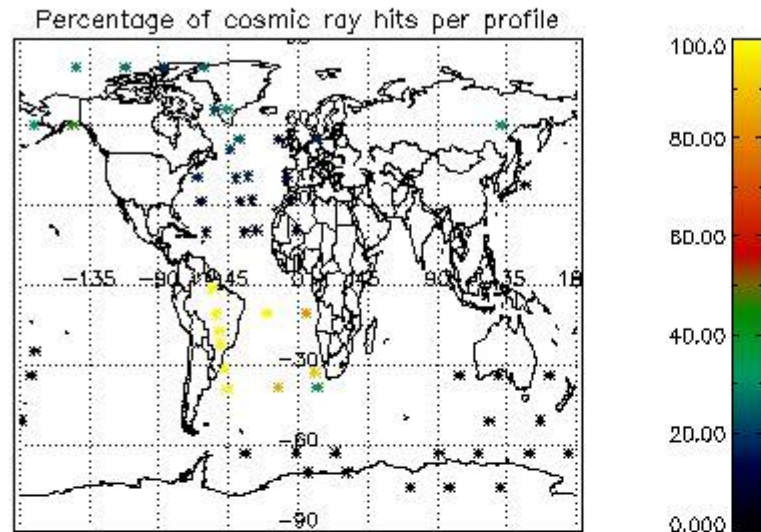
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	43.8596 %
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)



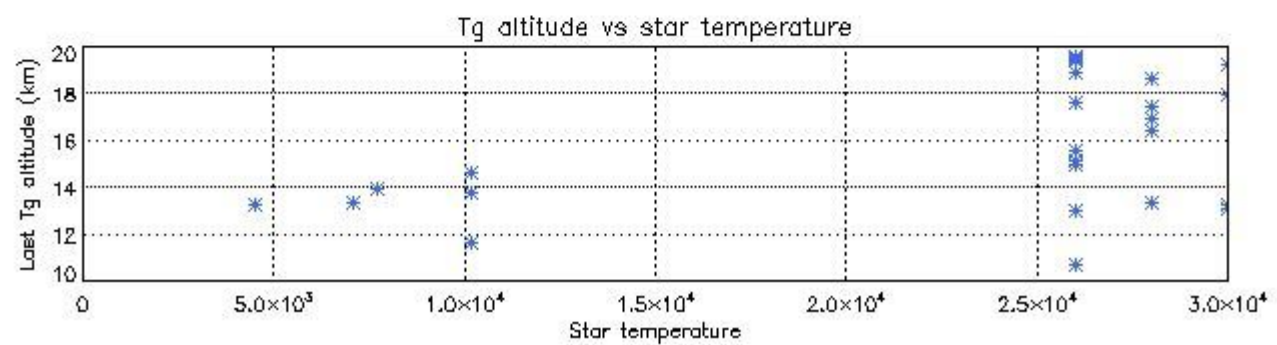
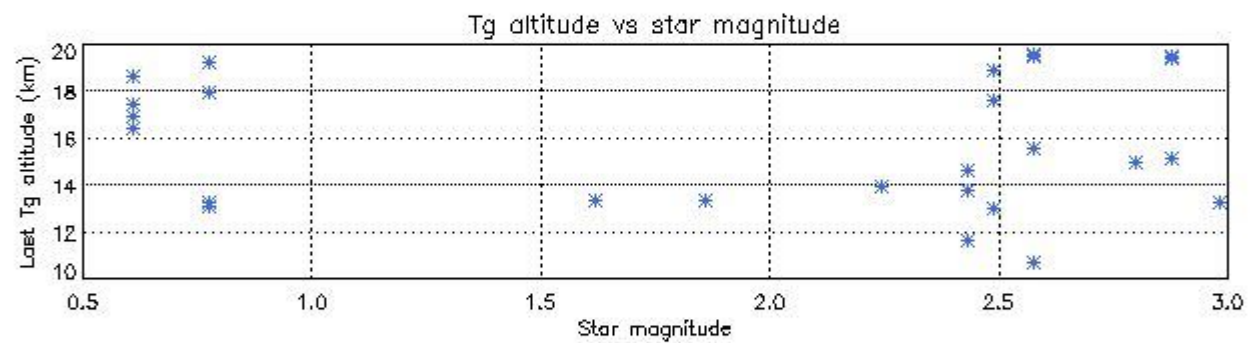
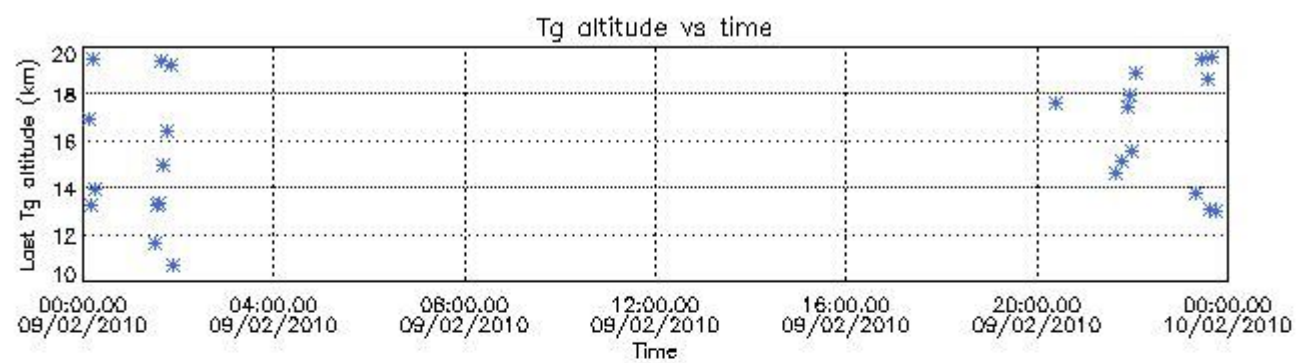
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.790	20.326	14.404
St. deviation:	2.7605	4.6796	0.0000
Maximum:	19.566	27.953	14.404
Minimum:	10.689	10.788	14.404
Number of data:	26.000	21.000	1.0000

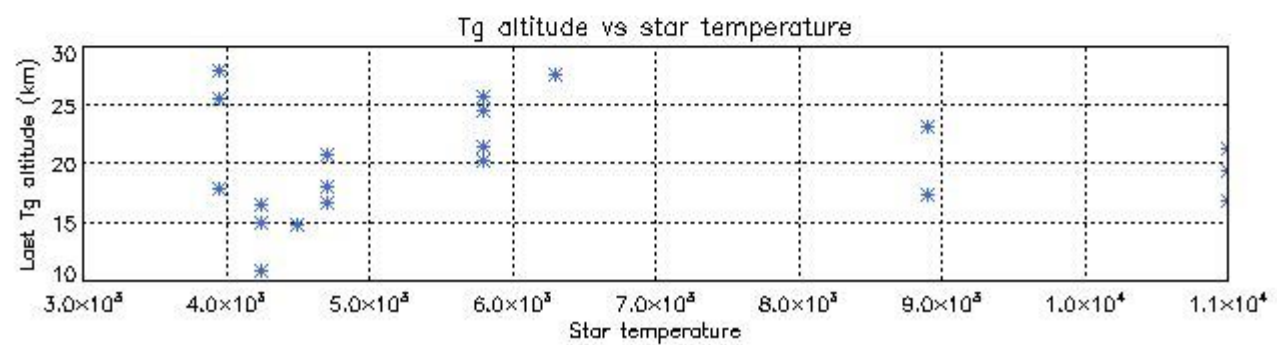
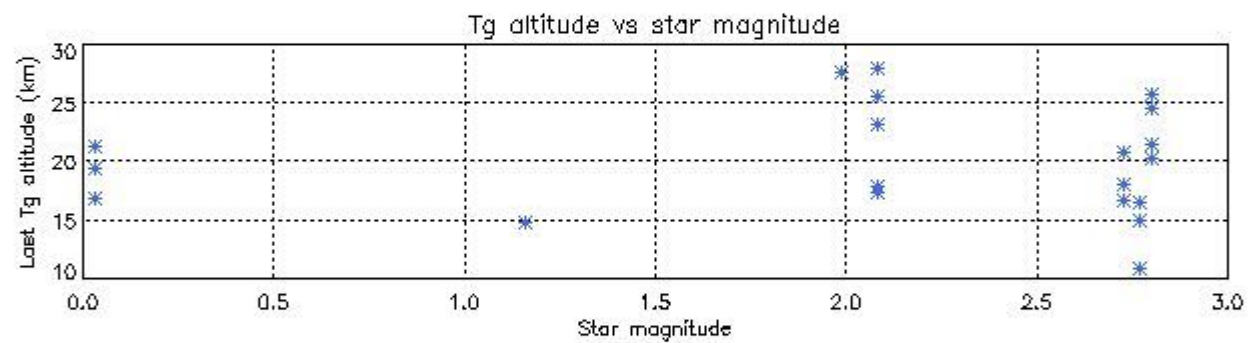
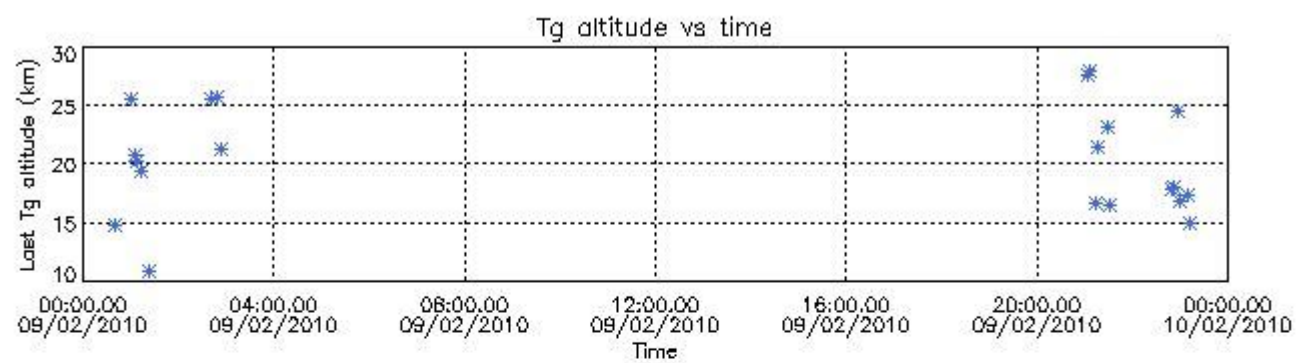
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



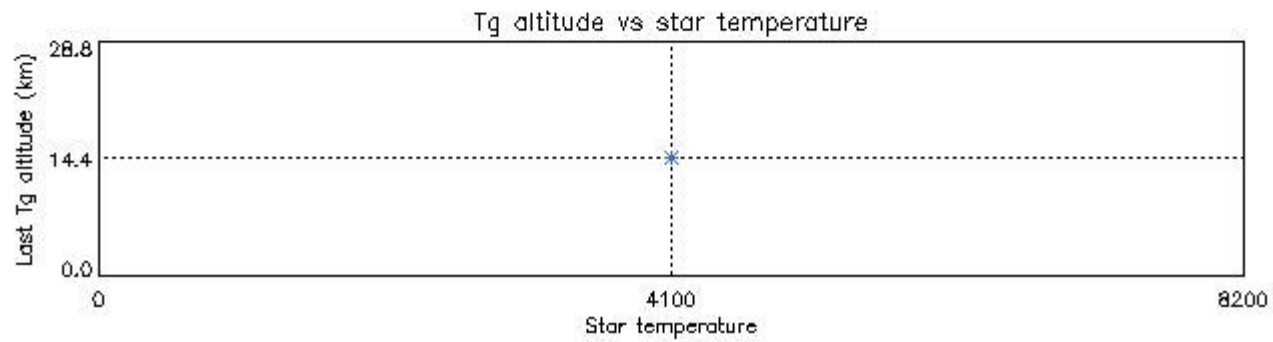
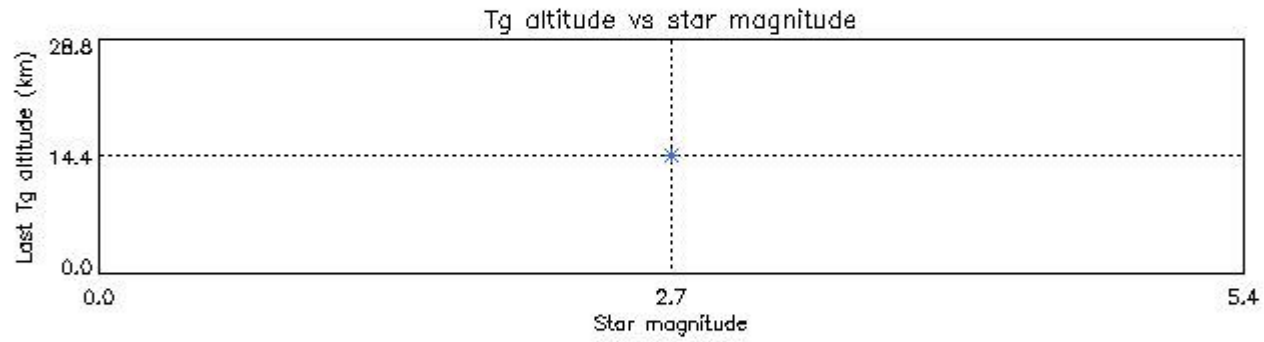
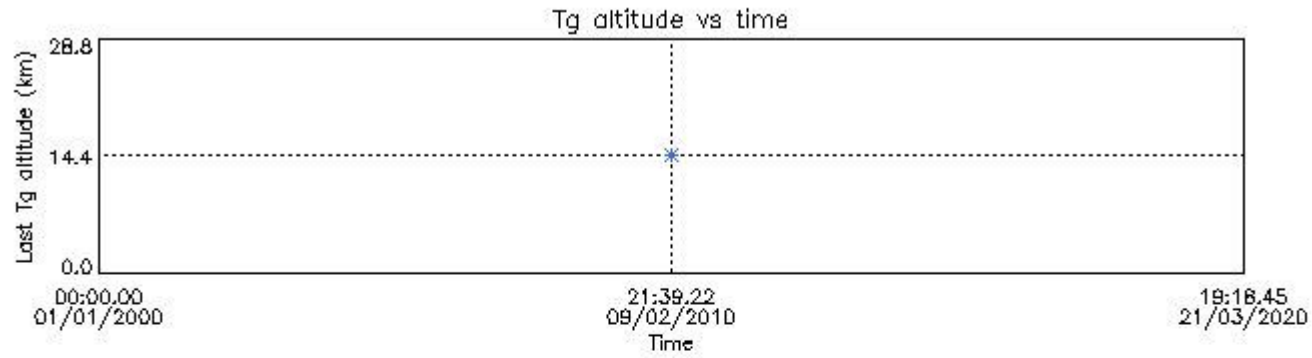
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

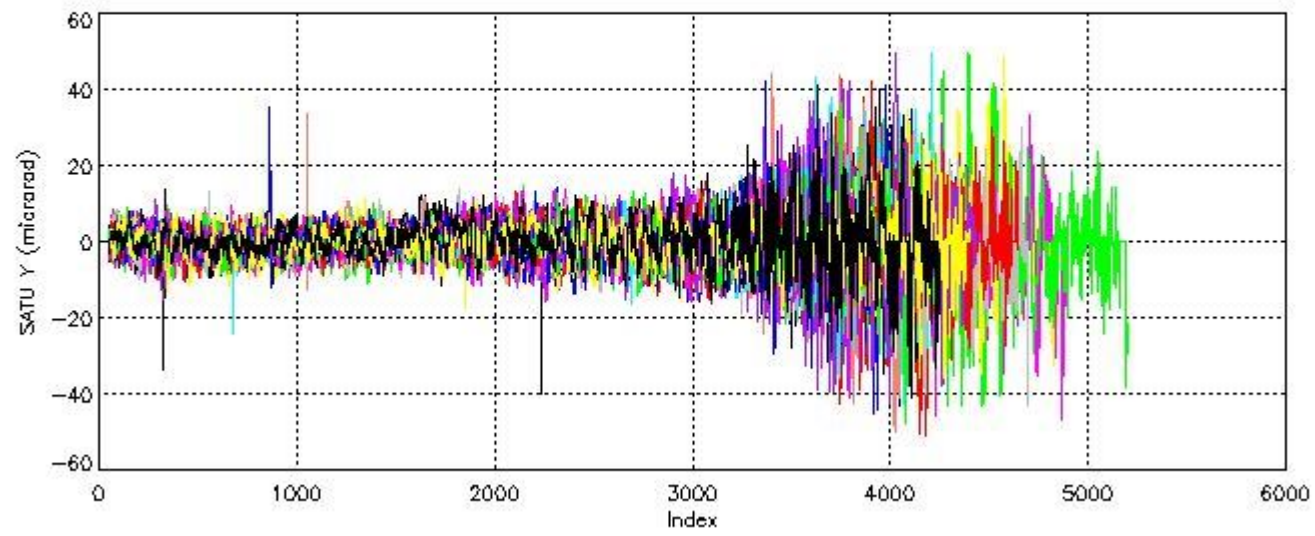
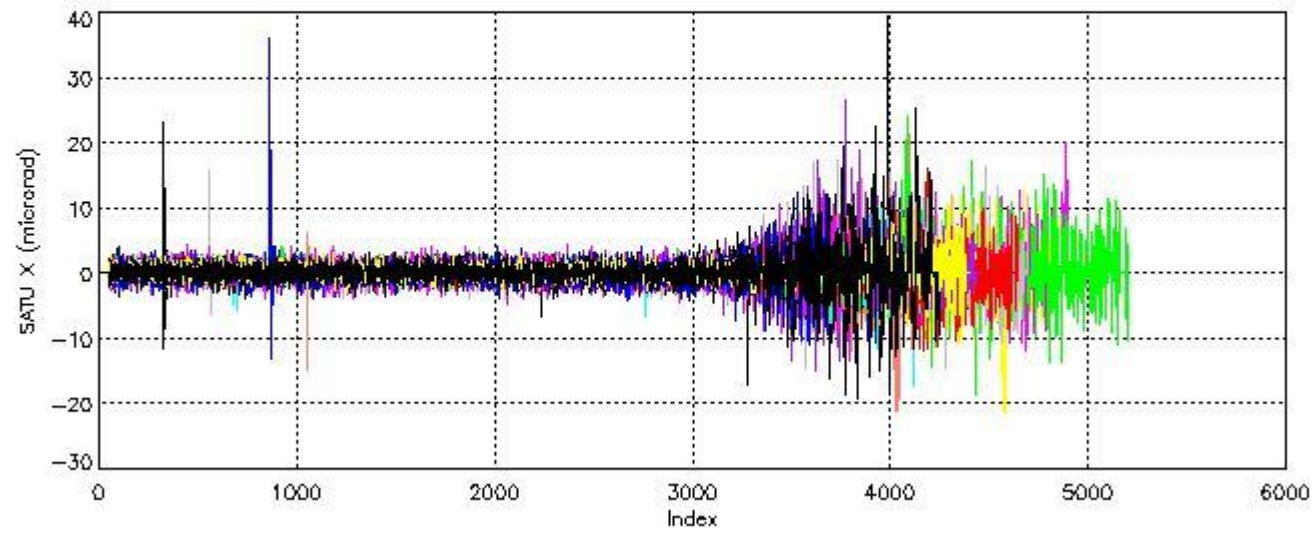


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12739	-0.49990	0.10661	-0.38600
St. deviation:	0.75845	2.9529	0.55614	2.7212
Maximum:	36.000	35.300	41.400	14.900
Minimum:	-13.100	-33.900	-12.900	-10.700

Number of data:	24550.	24550.	19400.	19400.
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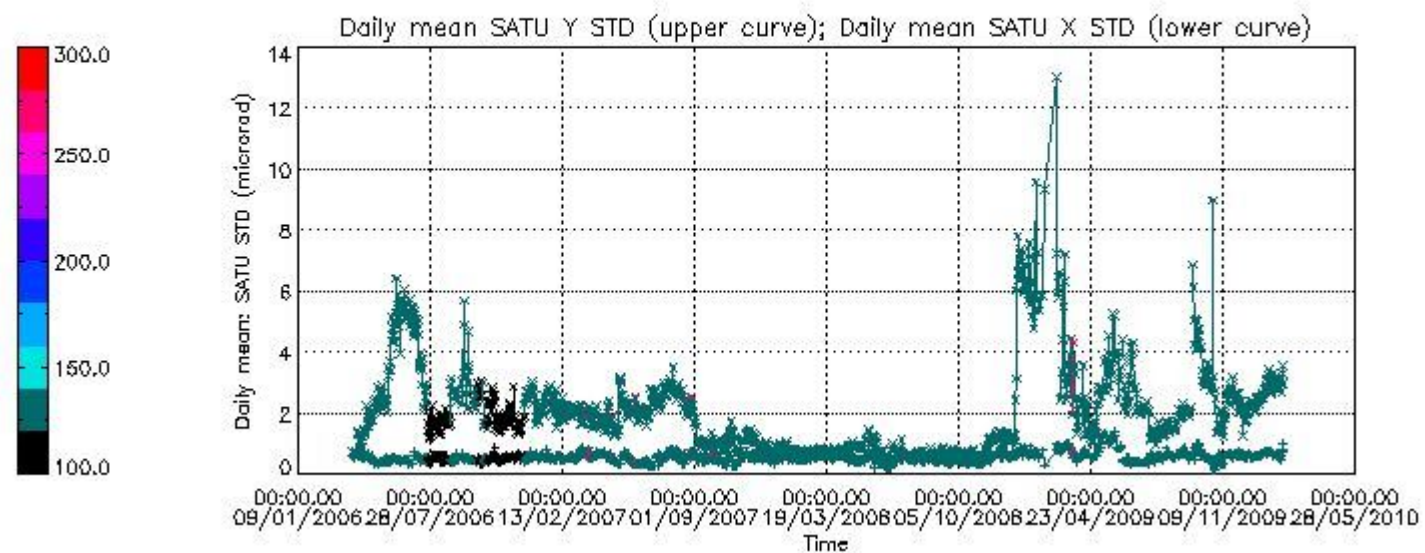
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

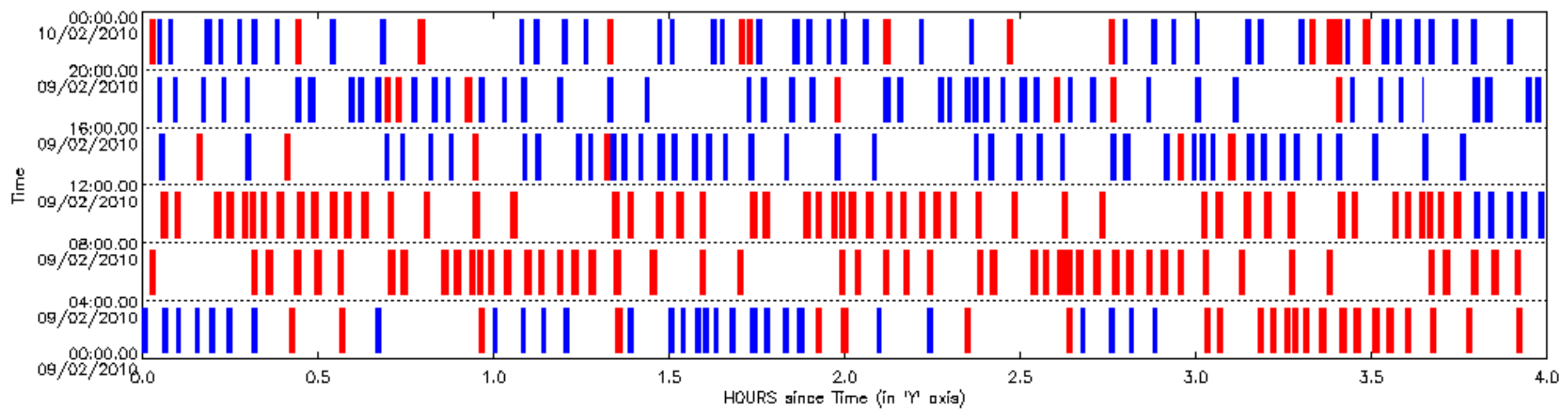
Lower curve: STD of SATU X axis

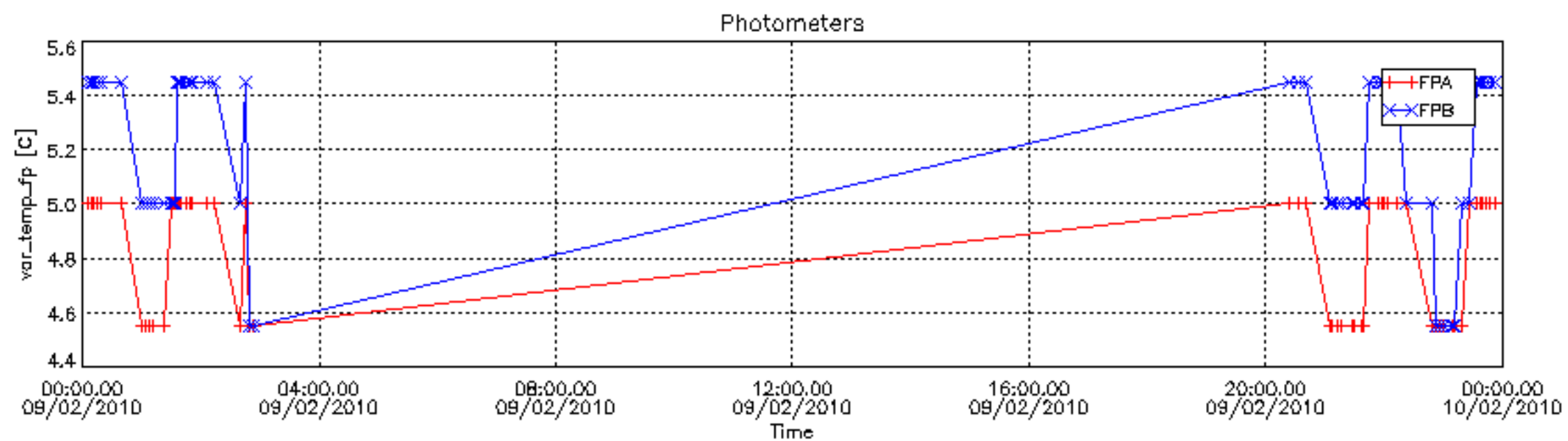
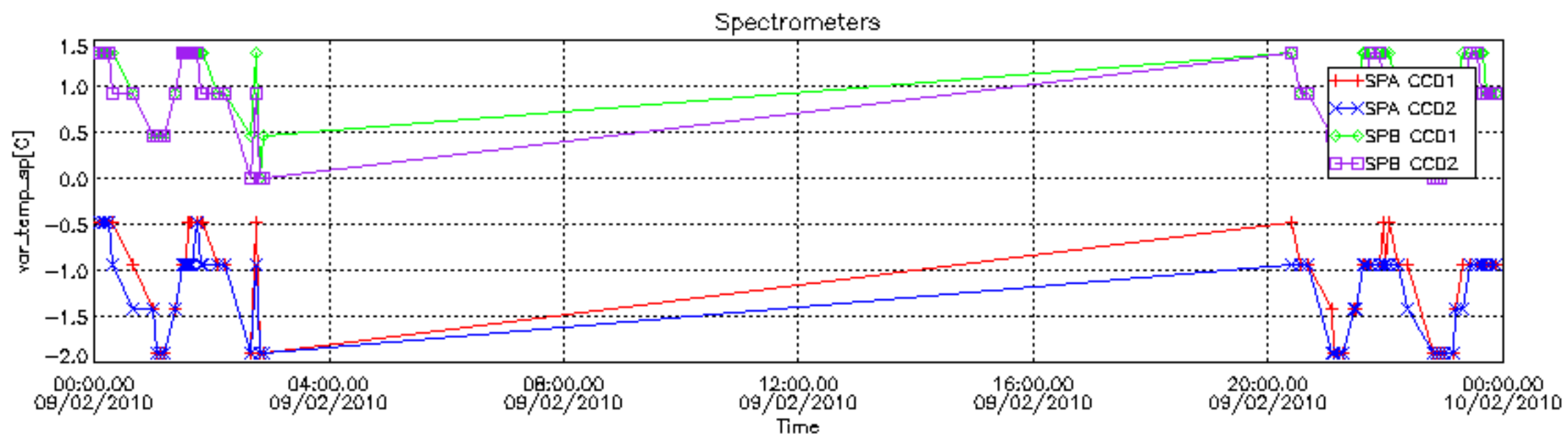


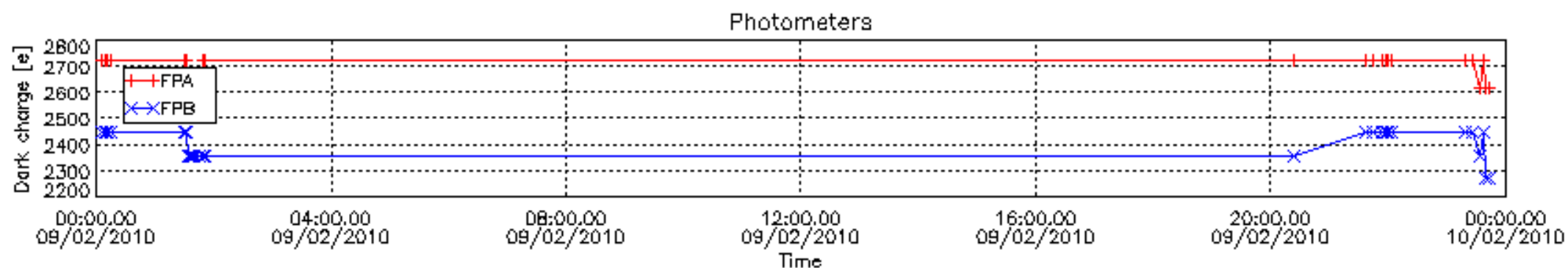
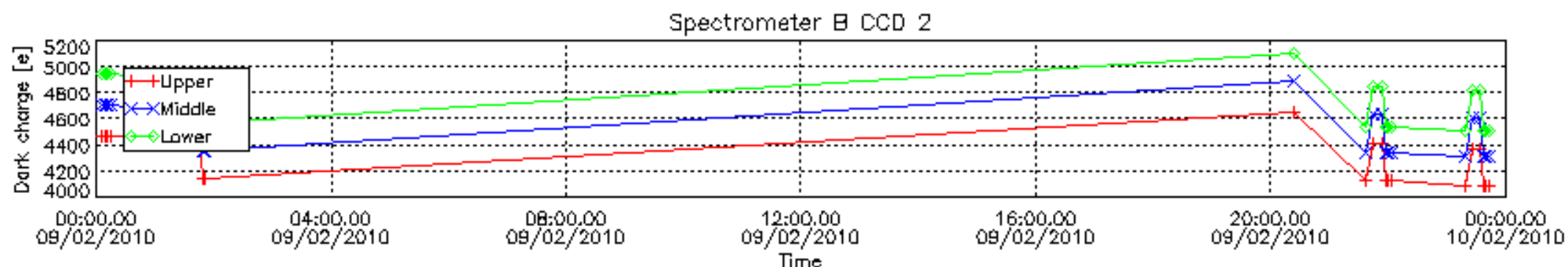
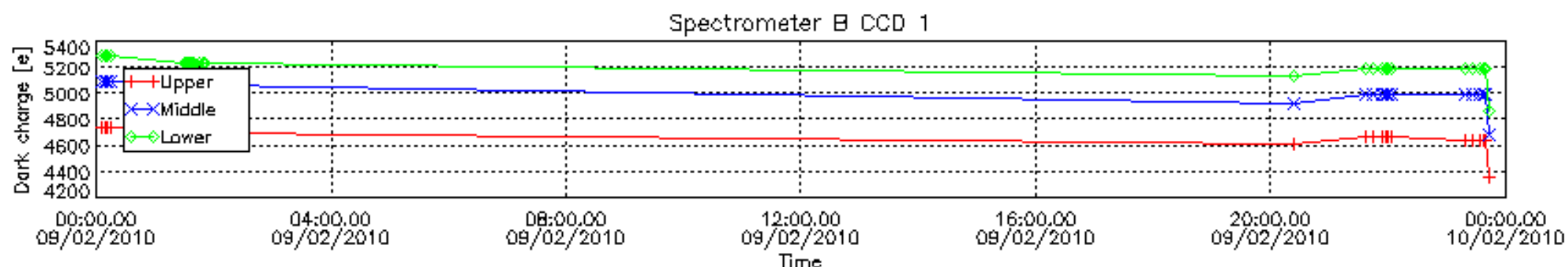
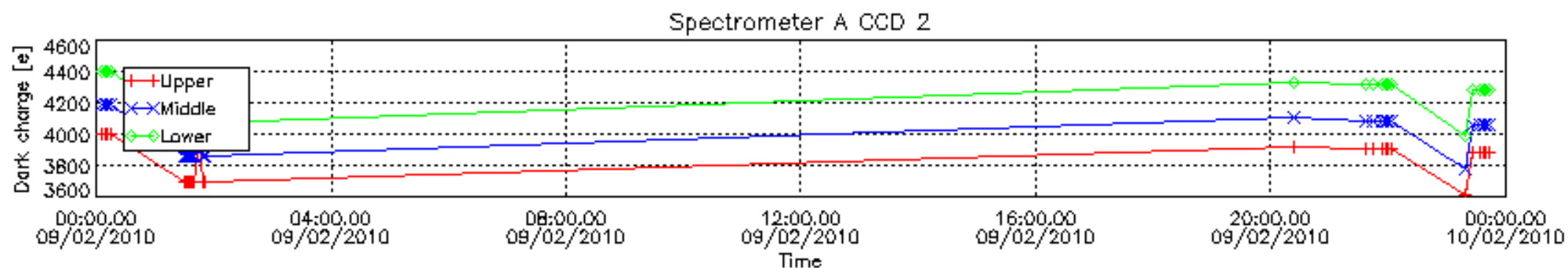
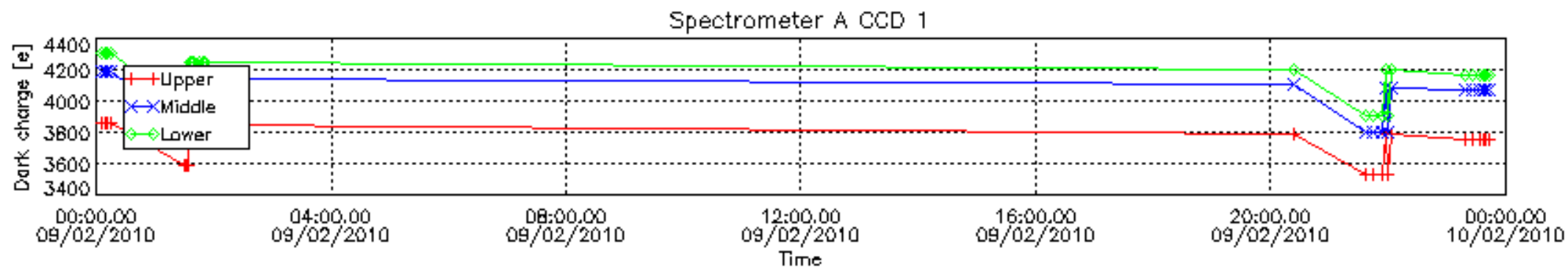
8. Auxiliary Data Files used for the production reported in section 2.4

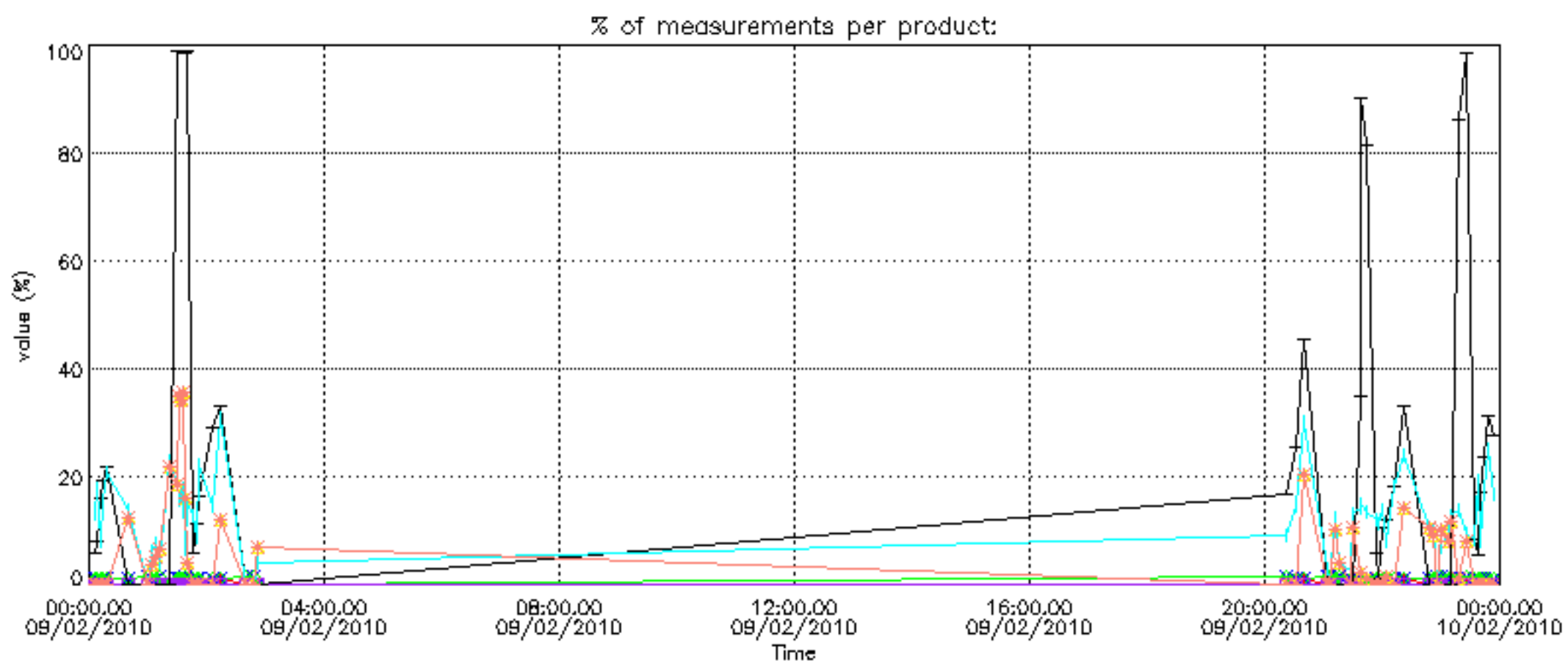
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-FEB-2010 00:05:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100202_143945_20100131_000000_20500101_000000	1	09-FEB-2010 00:05:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	09-FEB-2010 00:05:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-FEB-2010 00:05:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	09-FEB-2010 00:05:40
ECMWF_FILE	AUX_ECF_AXNECM20100208_062113_20100208_210000_20100209_090000	1	09-FEB-2010 00:05:40
ECMWF_FILE	AUX_ECF_AXNECM20100209_062112_20100209_150000_20100210_030000	27	09-FEB-2010 20:22:37
ECMWF_FILE	AUX_ECF_AXNECM20100209_062112_20100209_210000_20100210_090000	36	09-FEB-2010 21:37:05
OPTIONAL_ECMWF_FILE	MISSING	1	09-FEB-2010 00:05:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100208_234555_000057382086_00402_41538_9728.N1	1	09-FEB-2010 00:05:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100209_012652_000041442086_00403_41539_9729.N1	12	09-FEB-2010 01:29:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100209_024115_000054192086_00404_41540_9730.N1	24	09-FEB-2010 02:45:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100209_201834_000041442086_00415_41551_9732.N1	27	09-FEB-2010 20:22:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100209_213257_000057382086_00415_41551_9733.N1	36	09-FEB-2010 21:37:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100209_231354_000057382086_00416_41552_9734.N1	51	09-FEB-2010 23:17:42

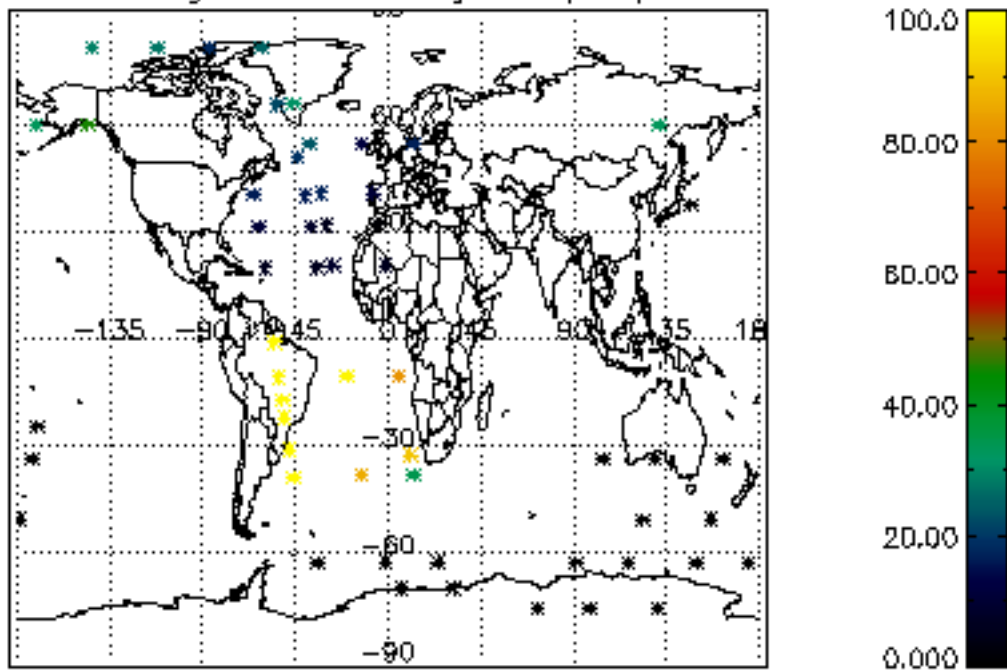




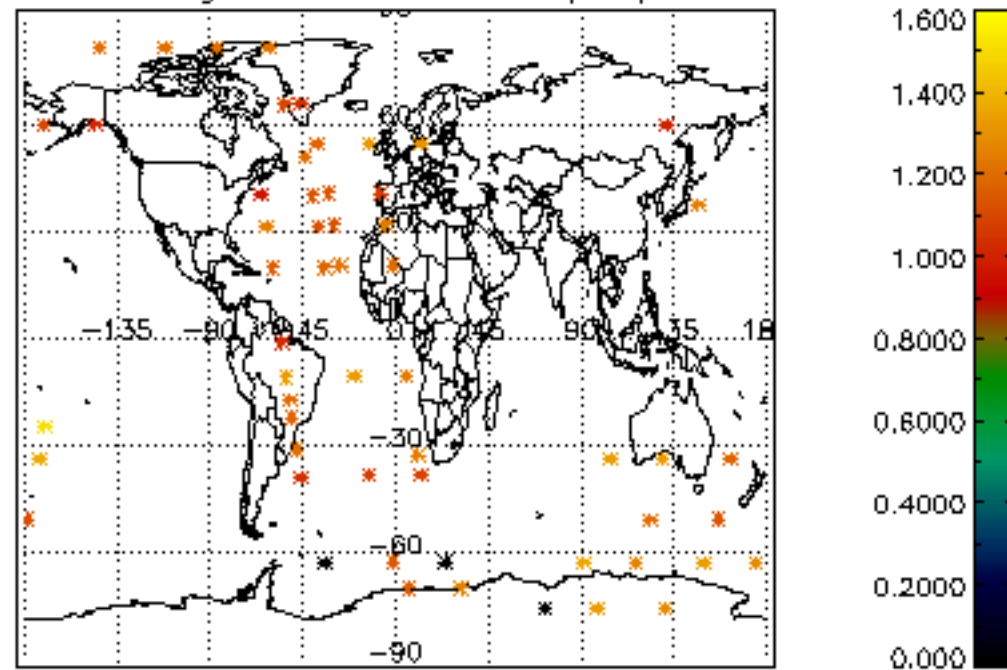




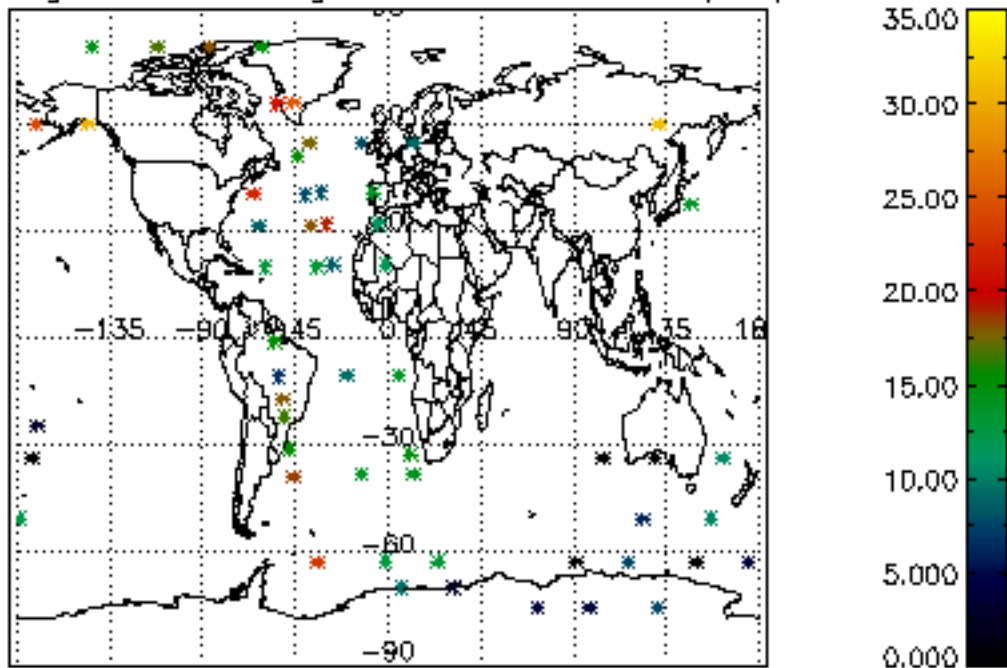
Percentage of cosmic ray hits per profile



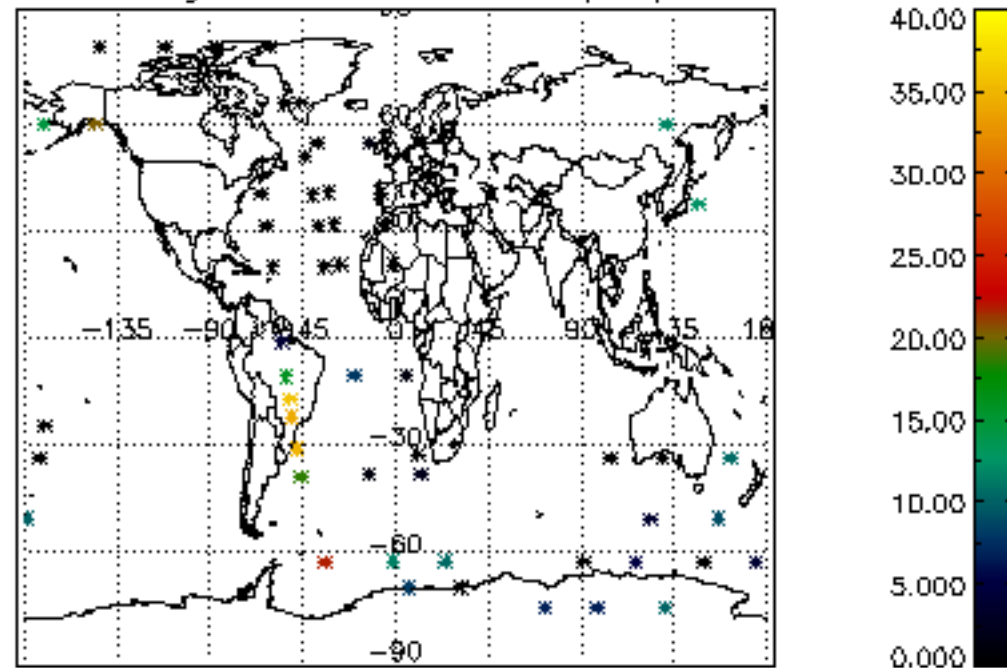
Percentage of datation errors per profile



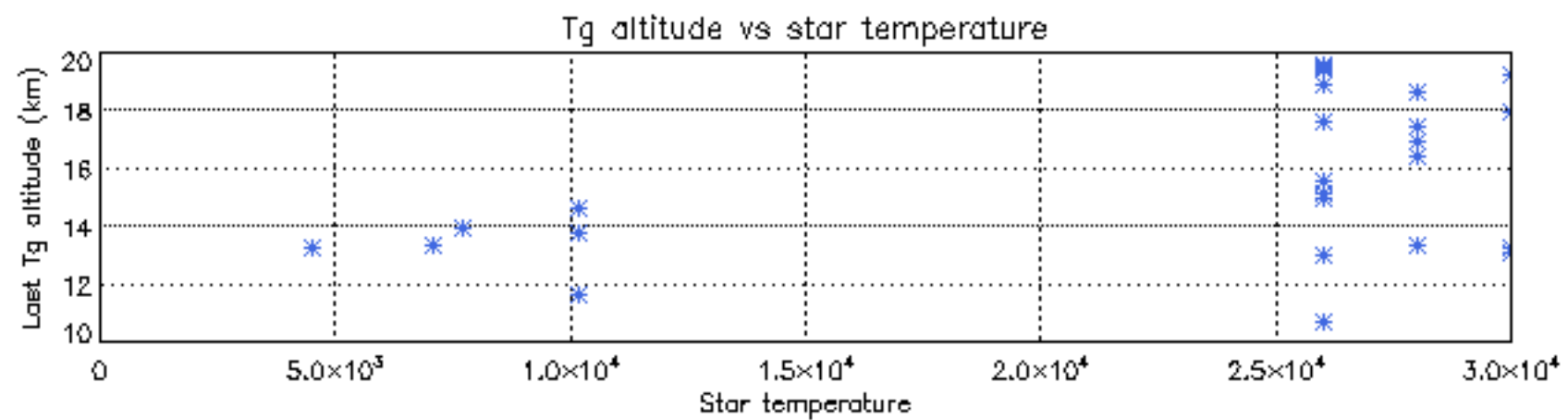
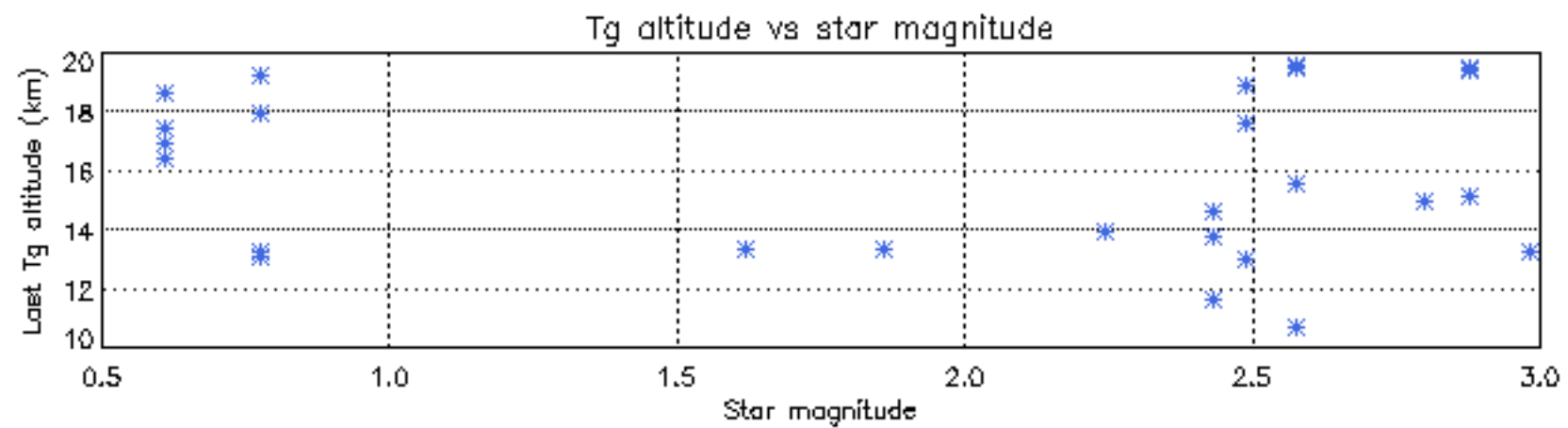
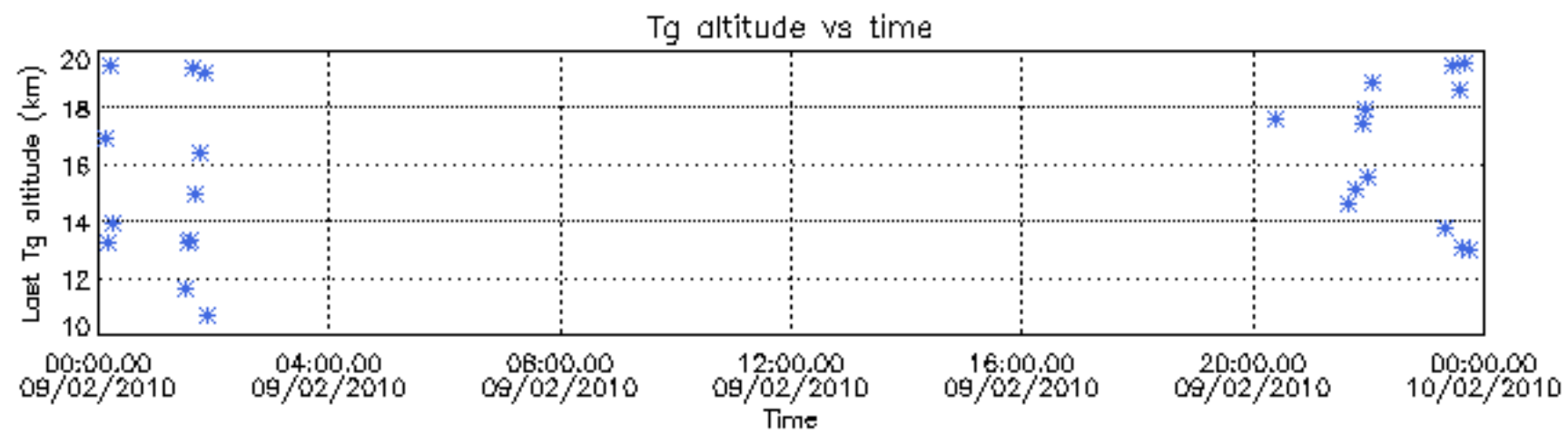
Percentage of star falling outside central band per profile



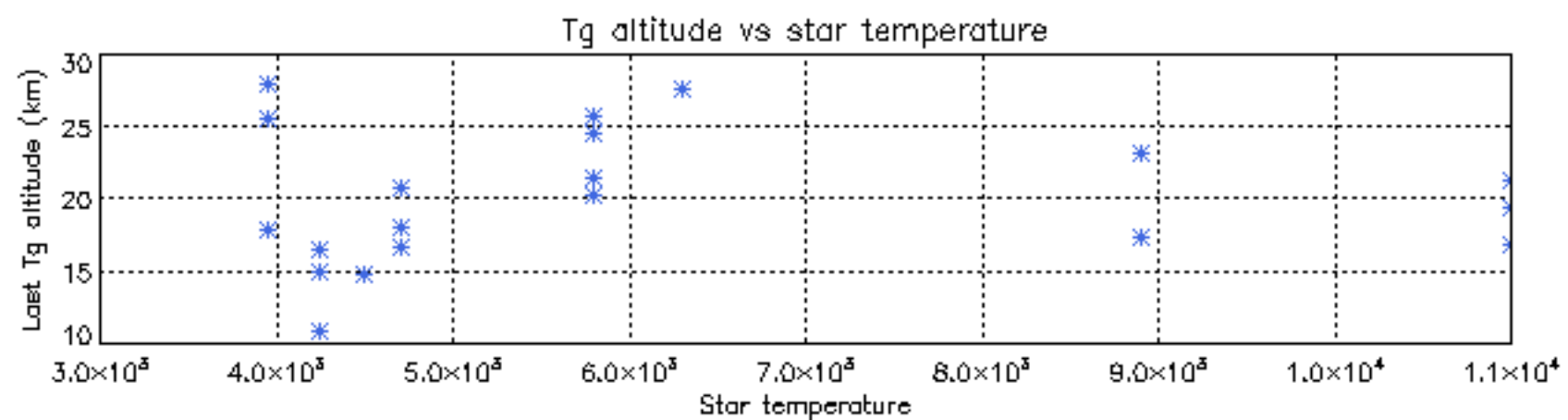
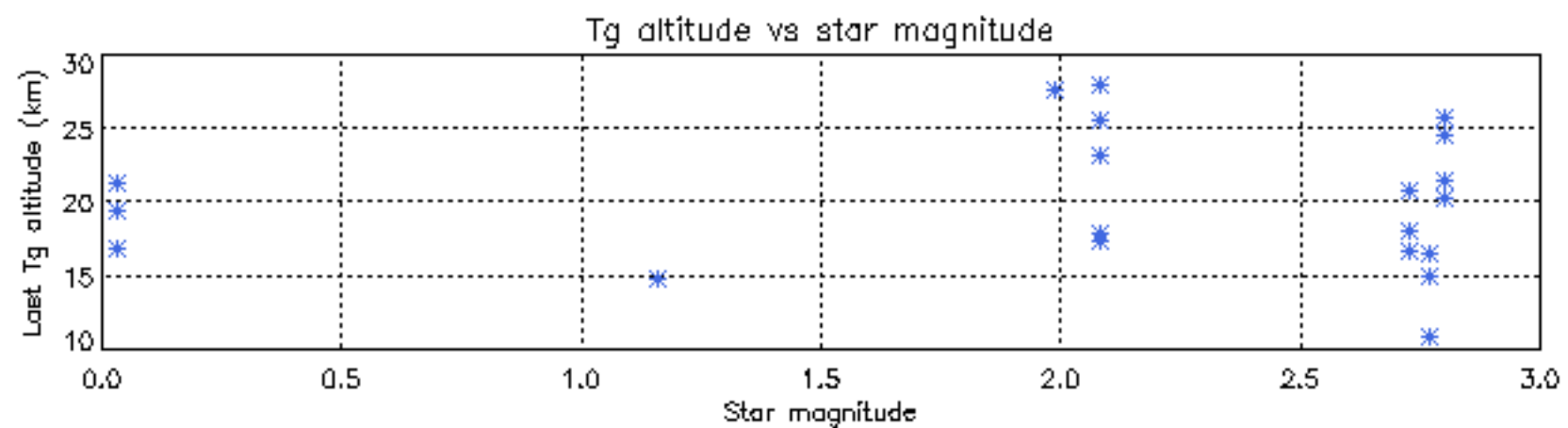
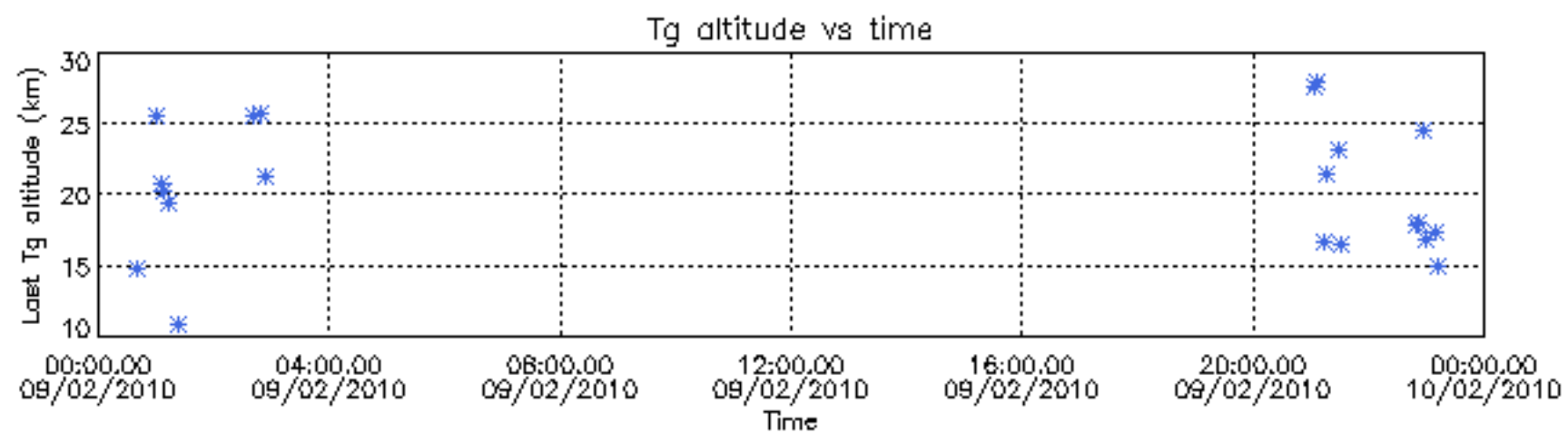
Percentage of saturation errors per profile



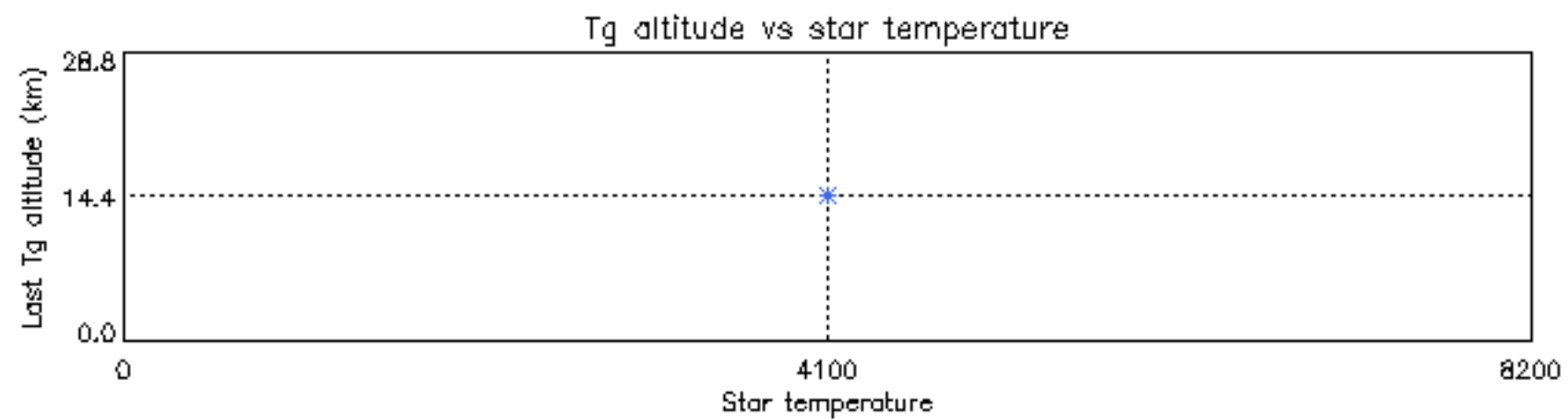
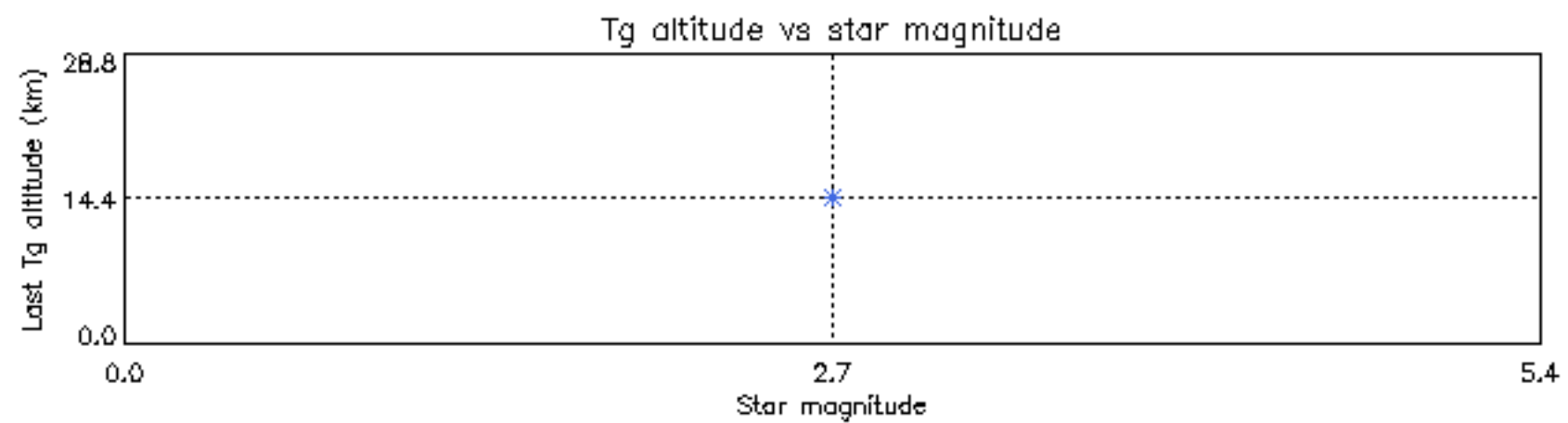
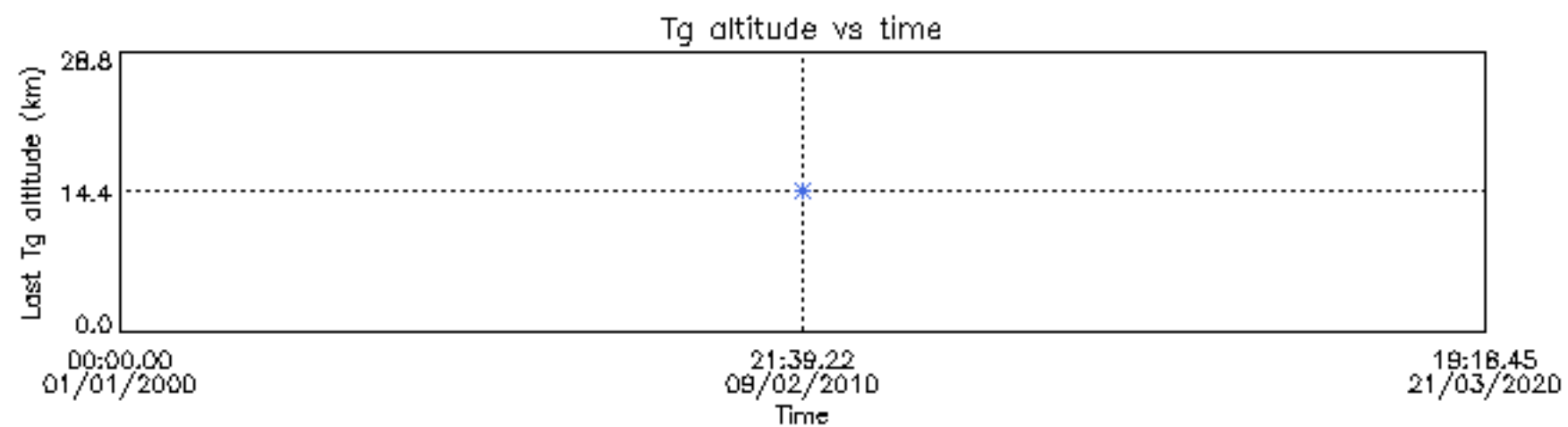
Tangent altitude at which the star is lost

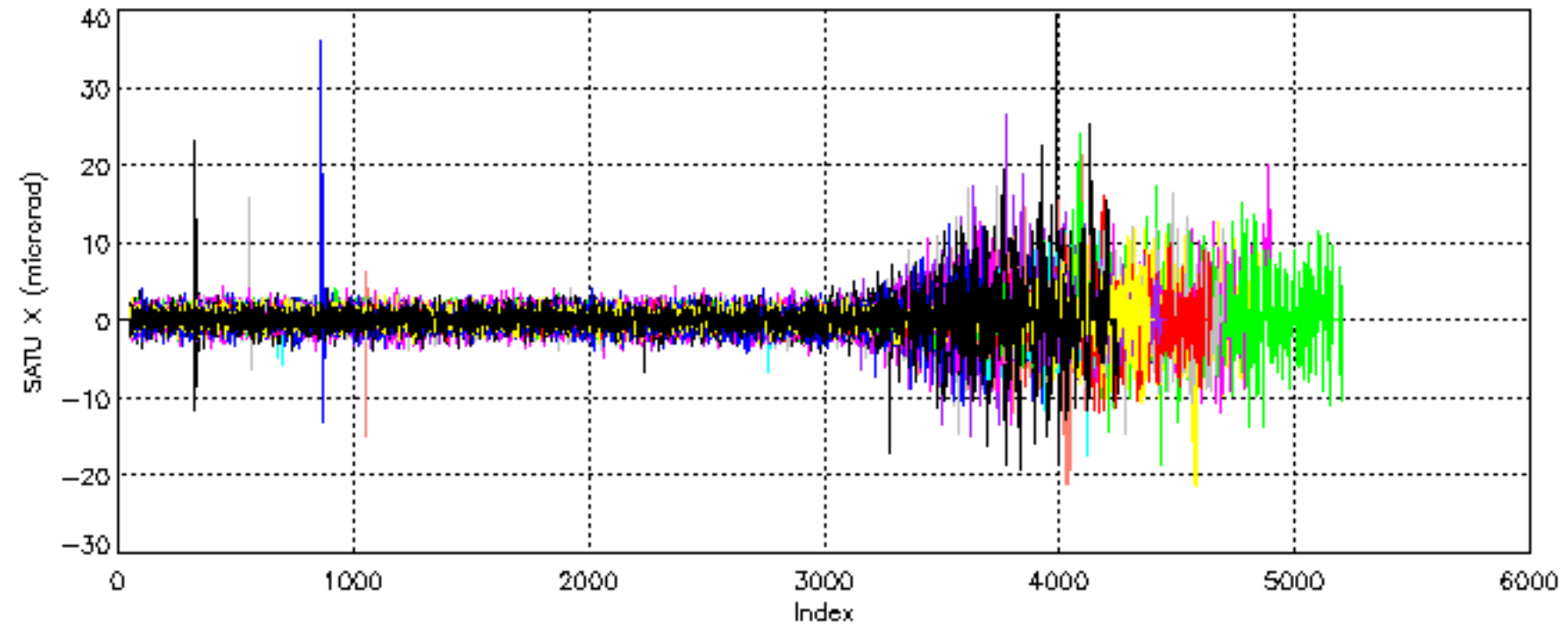


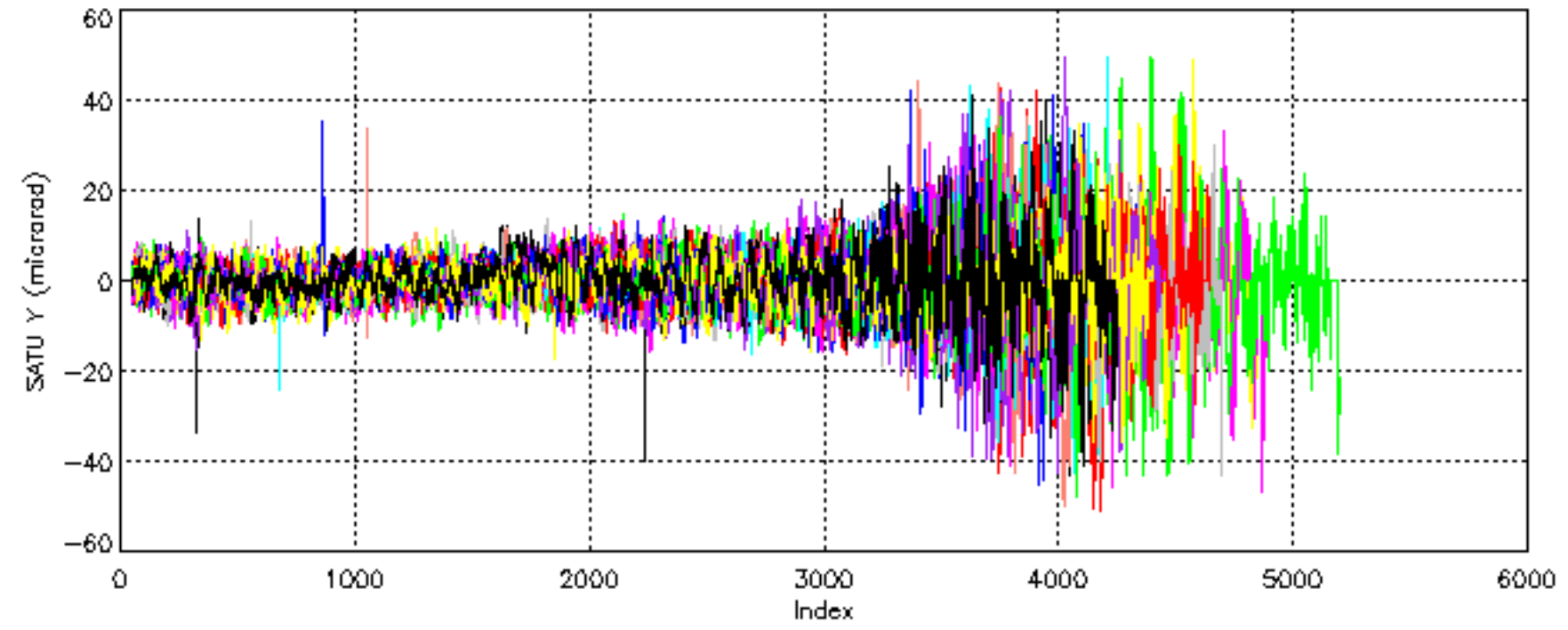
Tangent altitude at which the star is lost

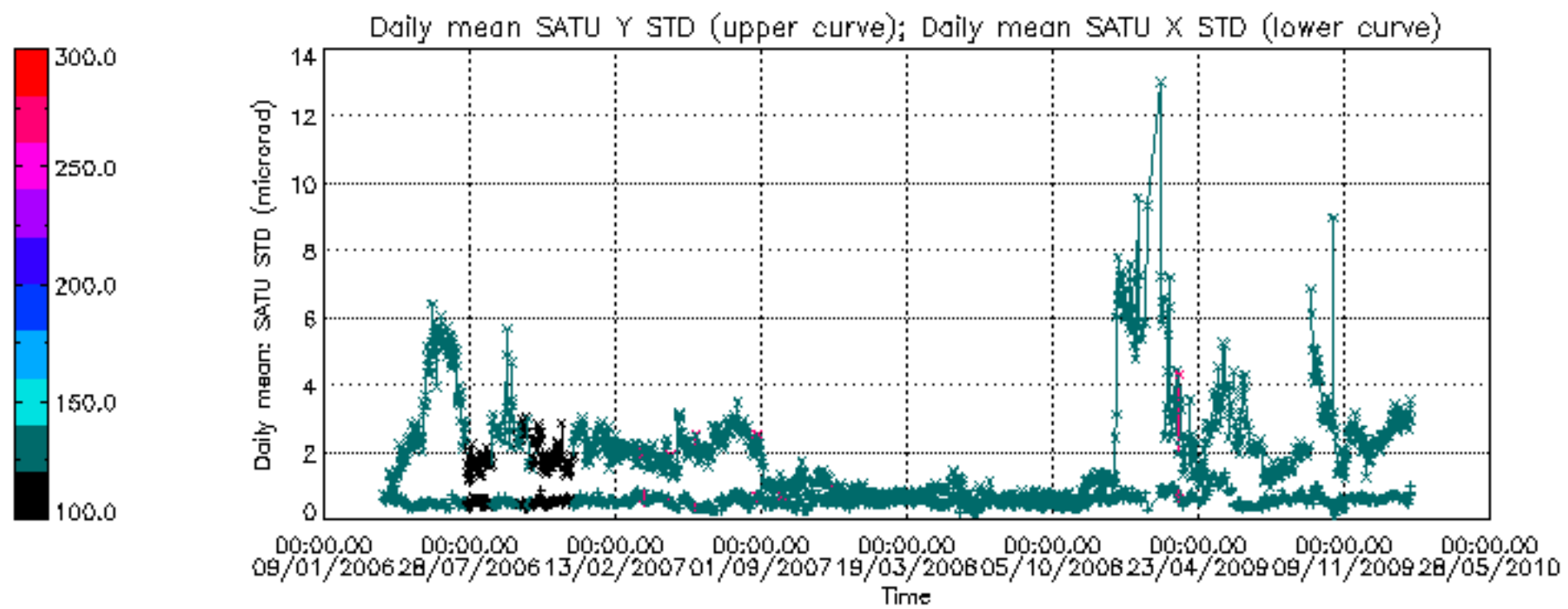


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100201_003952_000056972086_00288_41424_9421.N1

1; -718.0; 01-FEB-2010 00:39:52; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 8;41424
 2; -463.4; 01-FEB-2010 00:44:06; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;41424
 3; -116.1; 01-FEB-2010 00:49:54; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41424
 4; 17.5; 01-FEB-2010 00:52:07; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41425
 5; 106.9; 01-FEB-2010 00:53:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41425
 6; 194.7; 01-FEB-2010 00:55:04; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;41425
 7; 311.1; 01-FEB-2010 00:57:01; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41425
 8; 470.4; 01-FEB-2010 00:59:40; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;41425
 9; 591.6; 01-FEB-2010 01:01:41; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41425
 10; 708.5; 01-FEB-2010 01:03:38; Dark ; 42.0; 159; Ups Car ; 2.92; 7200;occ; 84; 0;41425
 11; 823.9; 01-FEB-2010 01:05:34; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41425
 12; 928.5; 01-FEB-2010 01:07:18; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;41425
 13; 1080.0; 01-FEB-2010 01:09:50; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;41425
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 16; 1992.9; 01-FEB-2010 01:25:03; Dark ; 45.0; 8; 10Alp CMi ; 0.40; 6500;occ; 90; 0;41425
 17; 2341.1; 01-FEB-2010 01:30:51; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41425
 18; 2455.8; 01-FEB-2010 01:32:46; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41425
 19; 3427.8; 01-FEB-2010 01:48:58; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41425
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 22; 4087.0; 01-FEB-2010 01:59:57; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41425
 23; 4304.9; 01-FEB-2010 02:03:35; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41425
 24; 4797.7; 01-FEB-2010 02:11:48; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;41425
 25; 4925.7; 01-FEB-2010 02:13:55; Bright; 53.5; 126; 60Bet Oph ; 2.77; 4250;occ; 107; 0;41425

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 6; 18.5; 01-FEB-2010 02:32:44; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41426
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 11; 592.5; 01-FEB-2010 02:42:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41426
 12; 709.0; 01-FEB-2010 02:44:15; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41426
 13; 824.1; 01-FEB-2010 02:46:10; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41426
 14; 929.0; 01-FEB-2010 02:47:55; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41426
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 17; 1467.2; 01-FEB-2010 02:56:53; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41426
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 20; 2455.9; 01-FEB-2010 03:13:22; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41426
 21; 3427.9; 01-FEB-2010 03:29:34; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41426

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 3; -1949.0; 01-FEB-2010 03:40:33; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;41426
 4; -1731.1; 01-FEB-2010 03:44:11; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41426
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 6; -1110.0; 01-FEB-2010 03:54:32; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;41426
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 9; -378.0; 01-FEB-2010 04:06:44; Dark ; 44.0; 158; 6Pi Sco ; 2.91; 28000;occ; 88; 0;41426
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 13; 312.7; 01-FEB-2010 04:18:14; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41427
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23; 2341.6; 01-FEB-2010 04:52:03; Bright; 36.0; 170; 27Eps Gem ; 3.00; 9700;occ; 72; 0;41427
24; 2455.7; 01-FEB-2010 04:53:57; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;41427
25; 3427.6; 01-FEB-2010 05:10:09; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;41427
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13; 313.4; 01-FEB-2010 05:58:51; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41428
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19; 1080.5; 01-FEB-2010 06:11:38; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41428
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21; 1468.0; 01-FEB-2010 06:18:06; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41428
22; 1992.9; 01-FEB-2010 06:26:51; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41428
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24; 2455.4; 01-FEB-2010 06:34:33; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;41428
25; 3427.8; 01-FEB-2010 06:50:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41428
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2; 931.8; 01-FEB-2010 19:33:57; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41436
3; 1082.8; 01-FEB-2010 19:36:28; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41436
4; 1207.6; 01-FEB-2010 19:38:33; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41436
5; 1469.4; 01-FEB-2010 19:42:54; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41436
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7; 2342.8; 01-FEB-2010 19:57:28; Bright; 38.5; 170; 27Eps Gem ; 3.00; 9700;occ; 77; 0;41436
8; 2454.7; 01-FEB-2010 19:59:20; Bright; 54.0; 24; 66Alp Gem ; 1.58; 10200;occ; 108; 0;41436
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11; 3894.5; 01-FEB-2010 20:23:20; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41436
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3; -368.9; 01-FEB-2010 20:52:52; Dark ; 47.5; 158; 6Pi Sco ; 2.91; 28000;occ; 95; 0;41436
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5; 28.2; 01-FEB-2010 20:59:29; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41437
6; 115.3; 01-FEB-2010 21:00:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41437
7; 201.2; 01-FEB-2010 21:02:22; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;41437
8; 320.5; 01-FEB-2010 21:04:22; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;41437
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11; 712.4; 01-FEB-2010 21:10:53; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41437
12; 827.5; 01-FEB-2010 21:12:49; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;41437
13; 932.2; 01-FEB-2010 21:14:33; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41437
14; 1082.8; 01-FEB-2010 21:17:04; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;41437
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16; 1469.8; 01-FEB-2010 21:23:31; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;41437
17; 1993.0; 01-FEB-2010 21:32:14; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;41437

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 26; 4929.4; 01-FEB-2010 22:21:10; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;41437
 27; 5320.7; 01-FEB-2010 22:27:42; Dark ; 11.0; 86; 35Eta Oph ; 2.43; 10200;occ; 22; 0;41437

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 4; 29.1; 01-FEB-2010 22:40:06; Dark ; 46.5; 109; Bet Lup ; 2.68; 26000;occ; 93; 0;41438
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 11; 827.8; 01-FEB-2010 22:53:25; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41438
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 11; 21.1; 01-FEB-2010 07:34:35; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;41429
 12; 109.7; 01-FEB-2010 07:36:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41429
 13; 197.0; 01-FEB-2010 07:37:31; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;41429
 14; 314.1; 01-FEB-2010 07:39:28; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41429
 15; 472.5; 01-FEB-2010 07:42:06; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41429
 16; 594.7; 01-FEB-2010 07:44:08; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41429
 17; 710.1; 01-FEB-2010 07:46:04; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;41429
 18; 825.0; 01-FEB-2010 07:47:59; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41429
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 21; 1206.1; 01-FEB-2010 07:54:20; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;41429
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 3; 2341.7; 01-FEB-2010 08:13:15; Bright; 36.5; 170; 27Eps Gem ; 3.00; 9700;occ; 73; 0;41429
 4; 2455.6; 01-FEB-2010 08:15:09; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;41429
 5; 3427.7; 01-FEB-2010 08:31:21; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;41429
 6; 3612.6; 01-FEB-2010 08:34:26; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;41429
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10; 4798.7; 01-FEB-2010 08:54:12; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;41429
11; 4926.8; 01-FEB-2010 08:56:20; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 0;41429
12; 5316.4; 01-FEB-2010 09:02:50; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;41429
13; 5576.0; 01-FEB-2010 09:07:10; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;41429
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16; 6058.0; 01-FEB-2010 09:15:12; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;41429
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22; 6746.2; 01-FEB-2010 09:26:40; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;41429
23; 6861.1; 01-FEB-2010 09:28:35; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;41429
24; 6965.9; 01-FEB-2010 09:30:20; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;41429
25; 7117.1; 01-FEB-2010 09:32:51; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41429
26; 7242.2; 01-FEB-2010 09:34:56; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;41429
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3; 2455.2; 01-FEB-2010 09:55:45; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;41430
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5; 3612.5; 01-FEB-2010 10:15:02; Bright; 44.5; 60; 7Bet UMi ; 2.08; 3950;occ; 89; 0;41430
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7; 4086.6; 01-FEB-2010 10:22:56; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;41430
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9; 4799.1; 01-FEB-2010 10:34:49; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;41430
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12; 5576.6; 01-FEB-2010 10:47:46; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;41430
13; 5661.4; 01-FEB-2010 10:49:11; Dark ; 47.5; 158; 6Pi Sco ; 2.91; 28000;occ; 95; 0;41430
14; 5924.4; 01-FEB-2010 10:53:34; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;41430
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16; 6147.0; 01-FEB-2010 10:57:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41430
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22; 6861.4; 01-FEB-2010 11:09:11; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41430
23; 6966.3; 01-FEB-2010 11:10:56; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41430
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3; 2455.3; 01-FEB-2010 11:36:21; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;41431
4; 3427.7; 01-FEB-2010 11:52:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;41431
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9; 4799.2; 01-FEB-2010 12:15:25; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;41431
10; 4927.8; 01-FEB-2010 12:17:33; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 0;41431
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13; 5662.2; 01-FEB-2010 12:29:48; Dark ; 48.5; 158; 6Pi Sco ; 2.91; 28000;occ; 97; 0;41431
14; 5925.2; 01-FEB-2010 12:34:11; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41431
15; 6059.9; 01-FEB-2010 12:36:25; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;41431
16; 6147.7; 01-FEB-2010 12:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41431
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19; 6509.8; 01-FEB-2010 12:43:55; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41431
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23; 6966.4; 01-FEB-2010 12:51:32; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41431
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11; 5318.0; 01-FEB-2010 14:04:39; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;41432
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 18; 6160.6; 02-FEB-2010 18:48:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41449
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 23; 6752.5; 02-FEB-2010 18:58:44; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41449
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4; -22.2; 03-FEB-2010 21:36:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;41465

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15; 5952.1; 03-FEB-2010 18:13:47; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41463

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 23; 7129.7; 03-FEB-2010 18:33:25; Dark ; 1.0; 65; Lam Vel ; 2.20; 4400;occ; 2; 0;41463

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 9; 625.8; 04-FEB-2010 02:48:36; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41469
 10; 722.7; 04-FEB-2010 02:50:13; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41469
 11; 837.5; 04-FEB-2010 02:52:08; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;41469
 12; 941.0; 04-FEB-2010 02:53:51; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41469
 13; 1094.9; 04-FEB-2010 02:56:25; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;41469
 14; 1215.1; 04-FEB-2010 02:58:25; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41469


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10; 838.7; 04-FEB-2010 07:53:57; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41472
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13; 6977.9; 04-FEB-2010 09:36:16; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;41472
14; 7132.0; 04-FEB-2010 09:38:50; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41472
15; 7251.7; 04-FEB-2010 09:40:50; Dark ; 38.0; 70; Zet Pup ; 2.25; 39000;occ; 76; 0;41472
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13; 6874.7; 04-FEB-2010 11:15:09; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;41473
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 3; 3600.8; 04-FEB-2010 12:01:11; Bright; 56.5; 60; 7Bet UMi ; 2.08; 3950;occ; 113; 0;41474
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5; 4085.8; 04-FEB-2010 13:49:52; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41475
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7; 4942.3; 04-FEB-2010 14:04:08; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;41475
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9; 5610.2; 04-FEB-2010 14:15:16; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;41475
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13; 6875.5; 04-FEB-2010 14:36:21; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41475
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4; 3886.9; 04-FEB-2010 15:27:09; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41476
5; 4085.8; 04-FEB-2010 15:30:28; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41476
6; 4813.2; 04-FEB-2010 15:42:35; Bright; 51.5; 59; 55Alp Oph ; 2.08; 8900;occ; 103; 0;41476
7; 4942.9; 04-FEB-2010 15:44:45; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;41476
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14; 6667.8; 04-FEB-2010 16:13:29; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;41476
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16; 6876.0; 04-FEB-2010 16:16:58; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41476
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5; 3886.9; 04-FEB-2010 17:07:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41477
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13; 6180.7; 04-FEB-2010 17:45:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41477
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9; 5725.9; 05-FEB-2010 08:43:47; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;41486
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4; 3428.7; 05-FEB-2010 14:47:53; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;41490
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9; 4818.3; 05-FEB-2010 15:11:03; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;41490
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19; 6704.3; 05-FEB-2010 15:42:29; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;41490
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21; 6983.2; 05-FEB-2010 15:47:08; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;41490
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9; 5623.1; 05-FEB-2010 17:05:04; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41491
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12; 6190.9; 05-FEB-2010 17:14:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41491
13; 6343.2; 05-FEB-2010 17:17:04; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41491
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16; 6704.7; 05-FEB-2010 17:23:05; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;41491
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18; 6983.1; 05-FEB-2010 17:27:44; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;41491
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11; 4818.8; 05-FEB-2010 18:32:15; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;41492
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21; 6705.1; 05-FEB-2010 19:03:42; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;41492
22; 6880.7; 05-FEB-2010 19:06:37; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41492
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3; 1224.5; 05-FEB-2010 19:12:57; Dark ; 35.0; 70; Zet Pup ; 2.25; 39000;occ; 70; 0;41493
4; 2386.8; 05-FEB-2010 19:32:19; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;41493
5; 3596.2; 05-FEB-2010 19:52:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;41493
6; 3883.3; 05-FEB-2010 19:57:16; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;41493


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12; 5624.4; 05-FEB-2010 20:26:17; Dark ; 62.0; 16; 21Alp Sco ; 1.02; 3000;occ; 124; 0;41493
13; 6192.3; 05-FEB-2010 20:35:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41493
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16; 6600.0; 05-FEB-2010 20:42:33; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41493
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7; 846.3; 06-FEB-2010 01:49:02; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41497
8; 948.6; 06-FEB-2010 01:50:45; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;41497
9; 1104.3; 06-FEB-2010 01:53:20; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;41497
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5; -681.3; 06-FEB-2010 03:04:11; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41497
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7; 159.3; 06-FEB-2010 03:18:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41498
8; 310.7; 06-FEB-2010 03:20:43; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41498
9; 483.0; 06-FEB-2010 03:23:35; Dark ; 45.5; 20; Bet Cru ; 1.25; 30000;occ; 91; 0;41498
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2;-1950.7; 06-FEB-2010 07:44:49; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;41500
3;-1214.6; 06-FEB-2010 07:57:05; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41500
4;-1084.0; 06-FEB-2010 07:59:16; Bright; 54.5; 126; 60Bet Oph ; 2.77; 4250;occ; 109; 0;41500
5; -679.5; 06-FEB-2010 08:06:00; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;41500
6; -537.5; 06-FEB-2010 08:08:22; Dark ; 43.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 87; 0;41500
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9; 485.0; 06-FEB-2010 08:25:25; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0;41501
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11; 846.9; 06-FEB-2010 08:31:27; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41501
12; 949.2; 06-FEB-2010 08:33:09; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;41501
13; 1105.1; 06-FEB-2010 08:35:45; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;41501
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3; 3881.6; 06-FEB-2010 09:22:01; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41501
4; 4084.9; 06-FEB-2010 09:25:25; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41501
5; 4821.8; 06-FEB-2010 09:37:42; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41501
6; 4951.9; 06-FEB-2010 09:39:52; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;41501
7; 5356.9; 06-FEB-2010 09:46:37; Dark ; 49.0; 86; 35Eta Oph ; 2.43; 10200;occ; 98; 0;41501
8; 5731.4; 06-FEB-2010 09:52:51; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;41501
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12; 6883.2; 06-FEB-2010 10:12:03; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41501
13; 6986.8; 06-FEB-2010 10:13:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41501
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4; 4084.6; 06-FEB-2010 11:06:00; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41502
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3; -1951.4; 06-FEB-2010 12:46:36; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41503
4; -1213.6; 06-FEB-2010 12:58:54; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41503
5; -1083.1; 06-FEB-2010 13:01:04; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;41503
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7; -536.9; 06-FEB-2010 13:10:11; Dark ; 42.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 85; 0;41503
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3; -1078.9; 07-FEB-2010 07:27:44; Bright; 57.0; 126; 60Bet Oph ; 2.77; 4250;occ; 114; 0;41514
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5; -533.0; 07-FEB-2010 07:36:50; Dark ; 45.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 90; 0;41514
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 10; 5569.1; 12-FEB-2010 18:24:37; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41592
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 12; 5769.0; 12-FEB-2010 18:27:57; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41592
 13; 5876.6; 12-FEB-2010 18:29:45; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41592
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 11; 5569.7; 12-FEB-2010 20:05:14; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;41593
 12; 5690.6; 12-FEB-2010 20:07:15; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;41593
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 20; 6683.0; 12-FEB-2010 20:23:47; Dark ; 53.0; 64; Gam Cen ; 2.20; 10600;occ; 106; 0;41593
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13; 3430.0; 13-FEB-2010 02:11:58; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41597
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16; 4077.7; 13-FEB-2010 02:22:46; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41597
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21; 4993.0; 13-FEB-2010 02:38:01; Bright; 47.0; 126; 60Bet Oph ; 2.77; 4250;occ; 94; 0;41597
22; 5423.6; 13-FEB-2010 02:45:11; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41597
23; 5570.8; 13-FEB-2010 02:47:39; Dark ; 42.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 84; 0;41597
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33; 7169.2; 13-FEB-2010 03:14:17; Dark ; 49.5; 65; Lam Vel ; 2.20; 4400;occ; 99; 0;41597
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19; 2385.7; 13-FEB-2010 05:15:45; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41599
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4; 4331.0; 17-FEB-2010 13:45:18; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;41661
5; 5026.7; 17-FEB-2010 13:56:53; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41661
6; 5729.6; 17-FEB-2010 14:08:36; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41661

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13; 6735.0; 17-FEB-2010 14:25:22; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41661
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6; 5730.2; 17-FEB-2010 15:49:13; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;41662
7; 5810.4; 17-FEB-2010 15:50:33; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41662
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12; 6628.8; 17-FEB-2010 16:04:11; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;41662
13; 6736.7; 17-FEB-2010 16:05:59; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41662
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4; 4331.6; 17-FEB-2010 17:06:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41663
5; 5028.3; 17-FEB-2010 17:18:07; Dark ; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41663
6; 5731.2; 17-FEB-2010 17:29:50; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;41663
7; 5811.3; 17-FEB-2010 17:31:10; Dark ; 52.0; 75; 26Eps Sco ; 2.29; 4250;occ; 104; 0;41663
8; 6103.7; 17-FEB-2010 17:36:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41663
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11; 6535.2; 17-FEB-2010 17:43:14; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41663
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6; 5731.7; 17-FEB-2010 19:10:26; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;41664
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9; 6370.3; 17-FEB-2010 19:21:05; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;41664
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11; 6536.0; 17-FEB-2010 19:23:51; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41664
12; 6629.6; 17-FEB-2010 19:25:24; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41664
13; 6737.8; 17-FEB-2010 19:27:12; Dark ; 51.0; 64; Gam Cen ; 2.20; 10600;occ; 102; 0;41664
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9; 6104.6; 17-FEB-2010 20:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41665
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11; 6449.8; 17-FEB-2010 21:03:00; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;41665
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13; 6629.9; 17-FEB-2010 21:06:00; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41665
14; 6738.3; 17-FEB-2010 21:07:49; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41665

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8; 704.1; 18-FEB-2010 00:29:02; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41668
9; 938.4; 18-FEB-2010 00:32:57; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;41668
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5; 416.0; 18-FEB-2010 02:04:50; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41669
6; 502.9; 18-FEB-2010 02:06:17; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;41669
7; 595.4; 18-FEB-2010 02:07:50; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;41669
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9; 938.8; 18-FEB-2010 02:13:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41669
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11; 595.9; 18-FEB-2010 03:48:26; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;41670
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5; 71.2; 18-FEB-2010 05:20:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41671
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8; 504.5; 18-FEB-2010 05:27:31; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;41671
9; 596.6; 18-FEB-2010 05:29:03; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41671
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11; 939.8; 18-FEB-2010 05:34:46; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41671
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8; 713.8; 18-FEB-2010 22:16:59; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41681
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5; 423.9; 18-FEB-2010 23:52:45; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;41682
6; 512.8; 18-FEB-2010 23:54:14; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41682
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9; 597.0; 18-FEB-2010 07:09:39; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41672
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3; 4068.8; 18-FEB-2010 09:48:07; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41673
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11; 6634.1; 18-FEB-2010 10:30:52; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41673
12; 6744.7; 18-FEB-2010 10:32:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41673
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6; 5821.9; 18-FEB-2010 13:38:32; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41675
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3; 4068.4; 18-FEB-2010 14:49:54; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;41676
4; 4332.6; 18-FEB-2010 14:54:18; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41676
5; 5739.4; 18-FEB-2010 15:17:45; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41676
6; 5822.8; 18-FEB-2010 15:19:08; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41676
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4; 4332.7; 18-FEB-2010 16:34:54; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41677
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6; 5823.6; 18-FEB-2010 16:59:45; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;41677
7; 6111.3; 18-FEB-2010 17:04:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41677
8; 6377.8; 18-FEB-2010 17:08:59; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;41677
9; 6457.7; 18-FEB-2010 17:10:19; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41677
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4; -196.7; 19-FEB-2010 21:30:12; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41694
5; -27.7; 19-FEB-2010 21:33:01; Dark ; 50.0; 141; Bet Ara ; 2.84; 4600;occ; 100; 0;41694
6; 84.1; 19-FEB-2010 21:34:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41695
7; 352.1; 19-FEB-2010 21:39:21; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41695
8; 431.9; 19-FEB-2010 21:40:40; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41695
9; 607.9; 19-FEB-2010 21:43:36; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;41695
10; 723.9; 19-FEB-2010 21:45:32; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41695
11; 1157.1; 19-FEB-2010 21:52:46; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41695
12; 1742.5; 19-FEB-2010 22:02:31; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;41695
13; 3431.4; 19-FEB-2010 22:30:40; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;41695
14; 3536.2; 19-FEB-2010 22:32:25; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41695
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3; -290.7; 19-FEB-2010 06:23:14; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41685
4; -205.1; 19-FEB-2010 06:24:40; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;41685
5; 79.4; 19-FEB-2010 06:29:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41686
6; 346.6; 19-FEB-2010 06:33:52; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41686

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11; 946.2; 19-FEB-2010 06:43:51; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41686
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5; 4756.9; 19-FEB-2010 07:47:22; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41686
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9; 6383.5; 19-FEB-2010 08:14:29; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41686
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14; 6982.7; 19-FEB-2010 08:24:28; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41686
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3; 4066.4; 19-FEB-2010 09:16:27; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41687
4; 4333.0; 19-FEB-2010 09:20:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41687
5; 4757.5; 19-FEB-2010 09:27:59; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;41687
6; 5746.3; 19-FEB-2010 09:44:27; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;41687
7; 5832.7; 19-FEB-2010 09:45:54; Dark ; 61.0; 75; 26Eps Sco ; 2.29; 4250;occ; 122; 0;41687
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9; 6384.0; 19-FEB-2010 09:55:05; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41687
10; 6463.6; 19-FEB-2010 09:56:25; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;41687
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12; 6640.4; 19-FEB-2010 09:59:21; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41687
13; 6754.8; 19-FEB-2010 10:01:16; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41687
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3; 4066.4; 19-FEB-2010 10:57:03; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41688
4; 4333.4; 19-FEB-2010 11:01:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41688
5; 4757.1; 19-FEB-2010 11:08:34; Bright; 53.0; 168; 17Zet Aql ; 2.99; 11000;occ; 106; 0;41688
6; 5746.8; 19-FEB-2010 11:25:04; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;41688
7; 5833.5; 19-FEB-2010 11:26:30; Dark ; 56.0; 75; 26Eps Sco ; 2.29; 4250;occ; 112; 0;41688
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9; 6384.6; 19-FEB-2010 11:35:42; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41688
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11; 6554.2; 19-FEB-2010 11:38:31; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41688
12; 6640.9; 19-FEB-2010 11:39:58; Dark ; 38.0; 12; Alp1Cru ; 0.77; 30000;occ; 76; 0;41688
13; 6755.6; 19-FEB-2010 11:41:53; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41688
14; 6983.2; 19-FEB-2010 11:45:40; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41688
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4; 4333.4; 19-FEB-2010 12:42:06; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;41689
5; 4757.7; 19-FEB-2010 12:49:10; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41689
6; 5747.5; 19-FEB-2010 13:05:40; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;41689
7; 5834.7; 19-FEB-2010 13:07:07; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41689
8; 6117.3; 19-FEB-2010 13:11:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41689
9; 6385.2; 19-FEB-2010 13:16:18; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41689
10; 6464.9; 19-FEB-2010 13:17:38; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41689
11; 6554.6; 19-FEB-2010 13:19:07; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41689
12; 6756.3; 19-FEB-2010 13:22:29; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41689
13; 6983.7; 19-FEB-2010 13:26:17; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41689
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 4; 4333.7; 19-FEB-2010 14:22:42; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41690
 5; 4757.9; 19-FEB-2010 14:29:47; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41690
 6; 5748.4; 19-FEB-2010 14:46:17; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41690
 7; 5835.5; 19-FEB-2010 14:47:44; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;41690
 8; 6117.9; 19-FEB-2010 14:52:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41690
 9; 6386.1; 19-FEB-2010 14:56:55; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41690
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 12; 6757.0; 19-FEB-2010 15:03:06; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41690
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 3; 4066.0; 19-FEB-2010 15:58:51; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41691
 4; 4333.7; 19-FEB-2010 16:03:18; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;41691
 5; 4758.3; 19-FEB-2010 16:10:23; Bright; 52.5; 168; 17Zet Aql ; 2.99; 11000;occ; 105; 0;41691
 6; 5749.0; 19-FEB-2010 16:26:54; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41691
 7; 5836.4; 19-FEB-2010 16:28:21; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41691
 8; 6118.5; 19-FEB-2010 16:33:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41691
 9; 6244.5; 19-FEB-2010 16:35:09; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;41691
 10; 6386.4; 19-FEB-2010 16:37:31; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;41691
 11; 6466.3; 19-FEB-2010 16:38:51; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41691
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 4; 3537.4; 19-FEB-2010 17:30:38; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41692
 5; 4065.9; 19-FEB-2010 17:39:26; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41692
 6; 4199.9; 19-FEB-2010 17:41:41; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;41692
 7; 4333.7; 19-FEB-2010 17:43:54; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41692
 8; 4758.5; 19-FEB-2010 17:50:59; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41692
 9; 5334.4; 19-FEB-2010 18:00:35; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;41692
 10; 5436.2; 19-FEB-2010 18:02:17; Dark ; 42.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 85; 0;41692
 11; 5749.8; 19-FEB-2010 18:07:30; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;41692
 12; 5837.4; 19-FEB-2010 18:08:58; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;41692
 13; 6007.2; 19-FEB-2010 18:11:48; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;41692
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 16; 6466.8; 19-FEB-2010 18:19:27; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;41692
 17; 6643.0; 19-FEB-2010 18:22:24; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41692
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 6; 4333.6; 19-FEB-2010 19:24:30; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;41693
 7; 4758.7; 19-FEB-2010 19:31:35; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41693
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 13; 6119.5; 19-FEB-2010 19:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41693
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 16; 6643.2; 19-FEB-2010 20:03:00; Dark ; 54.0; 12; Alp1Cru ; 0.77; 30000;occ; 108; 0;41693
 17; 6759.3; 19-FEB-2010 20:04:56; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41693

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3; 3534.1; 20-FEB-2010 10:16:34; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41702
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9; 4047.2; 26-FEB-2010 12:17:13; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;41789
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14; 5514.5; 26-FEB-2010 12:41:41; Dark ; 46.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 92; 0;41789
15; 5657.6; 26-FEB-2010 12:44:04; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41789
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9; 4046.7; 26-FEB-2010 15:38:25; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41791
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4; 2843.0; 26-FEB-2010 16:58:57; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;41792
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9; 4046.6; 26-FEB-2010 17:19:00; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41792
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6; 138.5; 26-FEB-2010 21:15:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41795
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 23; 4787.5; 27-FEB-2010 01:54:21; Bright; 56.0; 168; 17Zet Aql ; 2.99; 11000;occ; 112; 0;41797
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 5; -1247.7; 27-FEB-2010 05:15:34; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;41799
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20; 6845.9; 28-FEB-2010 20:23:38; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41822
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100228_232216_000053792087_00187_41824_9583.N1
 1; -543.4; 28-FEB-2010 23:22:16; Dark ; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;41824
 2; -357.5; 28-FEB-2010 23:25:22; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;41824
 3; -187.9; 28-FEB-2010 23:28:12; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;41824
 4; -2.4; 28-FEB-2010 23:31:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41824
 5; 292.7; 28-FEB-2010 23:36:12; Dark ; 49.5; 131; Gam Lup ; 2.80; 26000;occ; 99; 0;41825
 6; 430.9; 28-FEB-2010 23:38:31; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;41825
 7; 510.1; 28-FEB-2010 23:39:50; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;41825
 8; 617.1; 28-FEB-2010 23:41:37; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41825
 9; 726.9; 28-FEB-2010 23:43:27; Dark ; 40.5; 26; Gam Cru ; 1.62; 2900;occ; 81; 0;41825
10; 811.1; 28-FEB-2010 23:44:51; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41825
11; 2124.6; 01-MAR-2010 00:06:44; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;41825
12; 2282.6; 01-MAR-2010 00:09:22; Bright; 46.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 92; 0;41825
13; 2820.2; 01-MAR-2010 00:18:20; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;41825
14; 2983.9; 01-MAR-2010 00:21:04; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;41825
15; 3063.4; 01-MAR-2010 00:22:23; Bright; 59.0; 36; 50Alp UMa ; 1.80; 6300;occ; 118; 0;41825
16; 3493.5; 01-MAR-2010 00:29:33; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41825
17; 3775.9; 01-MAR-2010 00:34:16; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;41825
18; 4038.7; 01-MAR-2010 00:38:38; Bright; 47.0; 130; 23Bet Dra ; 2.80; 5800;occ; 94; 0;41825
19; 4212.2; 01-MAR-2010 00:41:32; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;41825
20; 4341.3; 01-MAR-2010 00:43:41; Bright; 44.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 89; 0;41825
21; 4796.5; 01-MAR-2010 00:51:16; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;41825

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