

GOMOS Daily Report 16-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	19FEB2010 04:41:32
Data source version	GOMOS/5.00L04
Start time of products	16FEB2010 00:08:56
Stop time of products	16FEB2010 23:37:19
Store outputs in DB	Yes
Nb of level 1b prods	30
Nb of prods with errors	0

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

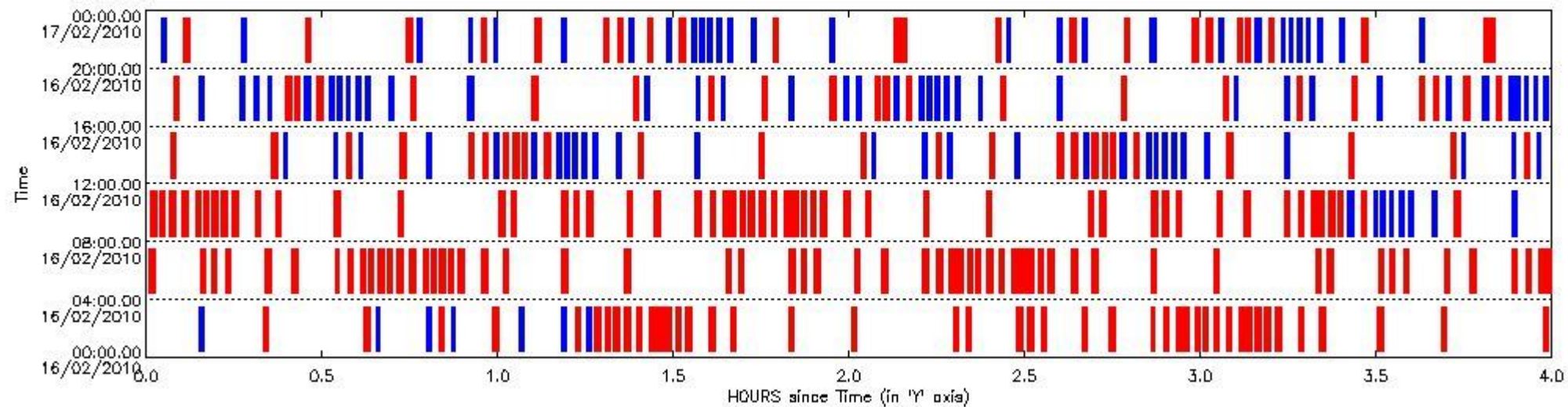
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
16-FEB-2010 00:19:53	78BetGem	17	41639
16-FEB-2010 00:37:15	1AlpUMi	49	41639
16-FEB-2010 00:49:58	18DelCyg	144	41639
16-FEB-2010 00:59:10	17ZetAql	168	41639
16-FEB-2010 01:13:10	20EpsSgr	38	41639
16-FEB-2010 01:16:37	TheSco	40	41639
16-FEB-2010 01:18:22	AlpAra	147	41639
16-FEB-2010 01:19:48	BetAra	141	41639
16-FEB-2010 01:21:36	DSA1025	0	41640
16-FEB-2010 01:23:44	BetTrA	134	41640
16-FEB-2010 01:25:59	Alp1Cen	4	41640
16-FEB-2010 01:27:18	BetCen	10	41640
16-FEB-2010 01:28:41	EpsCen	77	41640
16-FEB-2010 01:30:22	Alp1Cru	12	41640
16-FEB-2010 01:32:03	GamCen	64	41640

16-FEB-2010 01:36:07	MuVel	113	41640
16-FEB-2010 01:39:45	LamVel	65	41640
16-FEB-2010 01:49:40	30AlpHya	48	41640
16-FEB-2010 02:00:29	78BetGem	17	41640
16-FEB-2010 02:17:51	1AlpUMi	49	41640
16-FEB-2010 02:19:54	7BetUMi	60	41640
16-FEB-2010 02:28:33	23BetDra	130	41640
16-FEB-2010 02:30:34	18DelCyg	144	41640
16-FEB-2010 02:32:50	3AlpLyr	5	41640
16-FEB-2010 02:39:46	17ZetAql	168	41640
16-FEB-2010 02:44:15	60BetOph	126	41640
16-FEB-2010 02:51:40	35EtaOph	86	41640
16-FEB-2010 02:53:47	20EpsSgr	38	41640
16-FEB-2010 02:55:57	35LamSco	25	41640
16-FEB-2010 02:57:13	TheSco	40	41640
16-FEB-2010 02:58:58	AlpAra	147	41640
16-FEB-2010 03:00:25	BetAra	141	41640
16-FEB-2010 03:02:13	DSA1025	0	41641
16-FEB-2010 03:04:20	BetTrA	134	41641
16-FEB-2010 03:06:36	Alp1Cen	4	41641
16-FEB-2010 03:07:55	BetCen	10	41641
16-FEB-2010 03:09:17	EpsCen	77	41641
16-FEB-2010 03:10:58	Alp1Cru	12	41641
16-FEB-2010 03:12:40	GamCen	64	41641
16-FEB-2010 03:16:43	MuVel	113	41641
16-FEB-2010 03:20:21	LamVel	65	41641
16-FEB-2010 03:30:16	30AlpHya	48	41641
16-FEB-2010 03:41:05	78BetGem	17	41641
16-FEB-2010 03:58:27	1AlpUMi	49	41641
16-FEB-2010 04:00:29	7BetUMi	60	41641
16-FEB-2010 04:09:09	23BetDra	130	41641
16-FEB-2010 04:11:10	18DelCyg	144	41641
16-FEB-2010 04:13:26	3AlpLyr	5	41641
16-FEB-2010 04:20:22	17ZetAql	168	41641
16-FEB-2010 04:24:52	60BetOph	126	41641
16-FEB-2010 04:32:16	35EtaOph	86	41641
16-FEB-2010 04:34:23	20EpsSgr	38	41641
16-FEB-2010 04:36:34	35LamSco	25	41641
16-FEB-2010 04:37:50	TheSco	40	41641
16-FEB-2010 04:39:35	AlpAra	147	41641
16-FEB-2010 04:41:01	BetAra	141	41641
16-FEB-2010 04:42:49	DSA1025	0	41642
16-FEB-2010 04:44:56	BetTrA	134	41642
16-FEB-2010 04:47:12	Alp1Cen	4	41642
16-FEB-2010 04:48:31	BetCen	10	41642
16-FEB-2010 04:49:54	EpsCen	77	41642
16-FEB-2010 04:51:35	Alp1Cru	12	41642
16-FEB-2010 04:53:17	GamCen	64	41642
16-FEB-2010 04:57:19	MuVel	113	41642
16-FEB-2010 05:00:57	LamVel	65	41642
16-FEB-2010 05:10:52	30AlpHya	48	41642
16-FEB-2010 05:21:41	78BetGem	17	41642
16-FEB-2010 05:39:03	1AlpUMi	49	41642
16-FEB-2010 05:41:05	7BetUMi	60	41642
16-FEB-2010 05:49:45	23BetDra	130	41642
16-FEB-2010 05:51:46	18DelCyg	144	41642
16-FEB-2010 05:54:02	3AlpLyr	5	41642
16-FEB-2010 06:00:58	17ZetAql	168	41642
16-FEB-2010 06:05:28	60BetOph	126	41642

16-FEB-2010 06:12:33	22LamSgr	137	41642
16-FEB-2010 06:14:59	20EpsSgr	38	41642
16-FEB-2010 06:17:10	35LamSco	25	41642
16-FEB-2010 06:18:26	TheSco	40	41642
16-FEB-2010 06:20:11	AlpAra	147	41642
16-FEB-2010 06:21:37	BetAra	141	41642
16-FEB-2010 06:23:26	DSA1025	0	41643
16-FEB-2010 06:25:33	BetTrA	134	41643
16-FEB-2010 06:27:49	Alp1Cen	4	41643
16-FEB-2010 06:29:08	BetCen	10	41643
16-FEB-2010 06:30:31	EpsCen	77	41643
16-FEB-2010 06:32:11	Alp1Cru	12	41643
16-FEB-2010 06:33:53	GamCen	64	41643
16-FEB-2010 06:37:56	MuVel	113	41643
16-FEB-2010 06:41:33	LamVel	65	41643
16-FEB-2010 06:51:28	30AlpHya	48	41643
16-FEB-2010 07:02:17	78BetGem	17	41643
16-FEB-2010 07:19:39	1AlpUMi	49	41643
16-FEB-2010 07:21:41	7BetUMi	60	41643
16-FEB-2010 07:30:21	23BetDra	130	41643
16-FEB-2010 07:32:22	18DelCyg	144	41643
16-FEB-2010 07:34:38	3AlpLyr	5	41643
16-FEB-2010 07:41:35	17ZetAql	168	41643
16-FEB-2010 07:46:05	60BetOph	126	41643
16-FEB-2010 07:53:09	22LamSgr	137	41643
16-FEB-2010 07:55:36	20EpsSgr	38	41643
16-FEB-2010 07:57:47	35LamSco	25	41643
16-FEB-2010 07:59:03	TheSco	40	41643
16-FEB-2010 08:00:47	AlpAra	147	41643
16-FEB-2010 08:02:14	BetAra	141	41643
16-FEB-2010 08:04:02	DSA1025	0	41644
16-FEB-2010 08:06:09	BetTrA	134	41644
16-FEB-2010 08:08:25	Alp1Cen	4	41644
16-FEB-2010 08:09:45	BetCen	10	41644
16-FEB-2010 08:11:08	EpsCen	77	41644
16-FEB-2010 08:12:47	Alp1Cru	12	41644
16-FEB-2010 08:14:30	GamCen	64	41644
16-FEB-2010 08:18:32	MuVel	113	41644
16-FEB-2010 08:22:09	LamVel	65	41644
16-FEB-2010 08:32:04	30AlpHya	48	41644
16-FEB-2010 08:42:53	78BetGem	17	41644
16-FEB-2010 09:00:15	1AlpUMi	49	41644
16-FEB-2010 09:02:16	7BetUMi	60	41644
16-FEB-2010 09:10:57	23BetDra	130	41644
16-FEB-2010 09:12:58	18DelCyg	144	41644
16-FEB-2010 09:15:14	3AlpLyr	5	41644
16-FEB-2010 09:22:11	17ZetAql	168	41644
16-FEB-2010 09:26:41	60BetOph	126	41644
16-FEB-2010 09:33:45	22LamSgr	137	41644
16-FEB-2010 09:36:12	20EpsSgr	38	41644
16-FEB-2010 09:38:23	35LamSco	25	41644
16-FEB-2010 09:39:39	TheSco	40	41644
16-FEB-2010 09:41:24	AlpAra	147	41644
16-FEB-2010 09:42:50	BetAra	141	41644
16-FEB-2010 09:44:38	DSA1025	0	41645
16-FEB-2010 09:46:46	BetTrA	134	41645
16-FEB-2010 09:49:02	Alp1Cen	4	41645
16-FEB-2010 09:50:21	BetCen	10	41645
16-FEB-2010 09:51:44	EpsCen	77	41645

16-FEB-2010 09:53:24	Alp1Cru	12	41645
16-FEB-2010 09:55:07	GamCen	64	41645
16-FEB-2010 09:59:09	MuVel	113	41645
16-FEB-2010 10:02:45	LamVel	65	41645
16-FEB-2010 10:12:40	30AlpHya	48	41645
16-FEB-2010 10:23:29	78BetGem	17	41645
16-FEB-2010 10:40:51	1AlpUMi	49	41645
16-FEB-2010 10:42:52	7BetUMi	60	41645
16-FEB-2010 10:51:32	23BetDra	130	41645
16-FEB-2010 10:53:34	18DelCyg	144	41645
16-FEB-2010 10:55:50	3AlpLyr	5	41645
16-FEB-2010 11:02:47	17ZetAql	168	41645
16-FEB-2010 11:07:18	60BetOph	126	41645
16-FEB-2010 11:14:22	22LamSgr	137	41645
16-FEB-2010 11:16:48	20EpsSgr	38	41645
16-FEB-2010 11:19:00	35LamSco	25	41645
16-FEB-2010 11:20:16	TheSco	40	41645
16-FEB-2010 11:22:00	AlpAra	147	41645
16-FEB-2010 11:23:26	BetAra	141	41645
16-FEB-2010 11:27:22	BetTrA	134	41646
16-FEB-2010 11:43:22	LamVel	65	41646
16-FEB-2010 12:04:05	78BetGem	17	41646
16-FEB-2010 12:21:27	1AlpUMi	49	41646
16-FEB-2010 12:34:10	18DelCyg	144	41646
16-FEB-2010 12:43:23	17ZetAql	168	41646
16-FEB-2010 12:54:58	22LamSgr	137	41646
16-FEB-2010 12:57:25	20EpsSgr	38	41646
16-FEB-2010 13:00:52	TheSco	40	41646
16-FEB-2010 13:02:37	AlpAra	147	41646
16-FEB-2010 13:04:03	BetAra	141	41646
16-FEB-2010 13:07:58	BetTrA	134	41647
16-FEB-2010 13:23:58	LamVel	65	41647
16-FEB-2010 13:44:41	78BetGem	17	41647
16-FEB-2010 14:02:03	1AlpUMi	49	41647
16-FEB-2010 14:14:46	18DelCyg	144	41647
16-FEB-2010 14:23:59	17ZetAql	168	41647
16-FEB-2010 14:35:35	22LamSgr	137	41647
16-FEB-2010 14:38:01	20EpsSgr	38	41647
16-FEB-2010 14:41:28	TheSco	40	41647
16-FEB-2010 14:43:13	AlpAra	147	41647
16-FEB-2010 14:44:39	BetAra	141	41647
16-FEB-2010 14:48:35	BetTrA	134	41648
16-FEB-2010 15:04:34	LamVel	65	41648
16-FEB-2010 15:25:17	78BetGem	17	41648
16-FEB-2010 15:42:38	1AlpUMi	49	41648
16-FEB-2010 15:55:22	18DelCyg	144	41648
16-FEB-2010 16:04:35	17ZetAql	168	41648
16-FEB-2010 16:23:49	AlpAra	147	41648
16-FEB-2010 16:25:15	BetAra	141	41648
16-FEB-2010 16:29:11	BetTrA	134	41649
16-FEB-2010 16:45:10	LamVel	65	41649
16-FEB-2010 17:05:53	78BetGem	17	41649
16-FEB-2010 17:23:14	1AlpUMi	49	41649
16-FEB-2010 17:35:59	18DelCyg	144	41649
16-FEB-2010 17:45:12	17ZetAql	168	41649
16-FEB-2010 17:56:47	22LamSgr	137	41649
16-FEB-2010 18:04:26	AlpAra	147	41649
16-FEB-2010 18:05:52	BetAra	141	41649
16-FEB-2010 18:09:48	BetTrA	134	41650

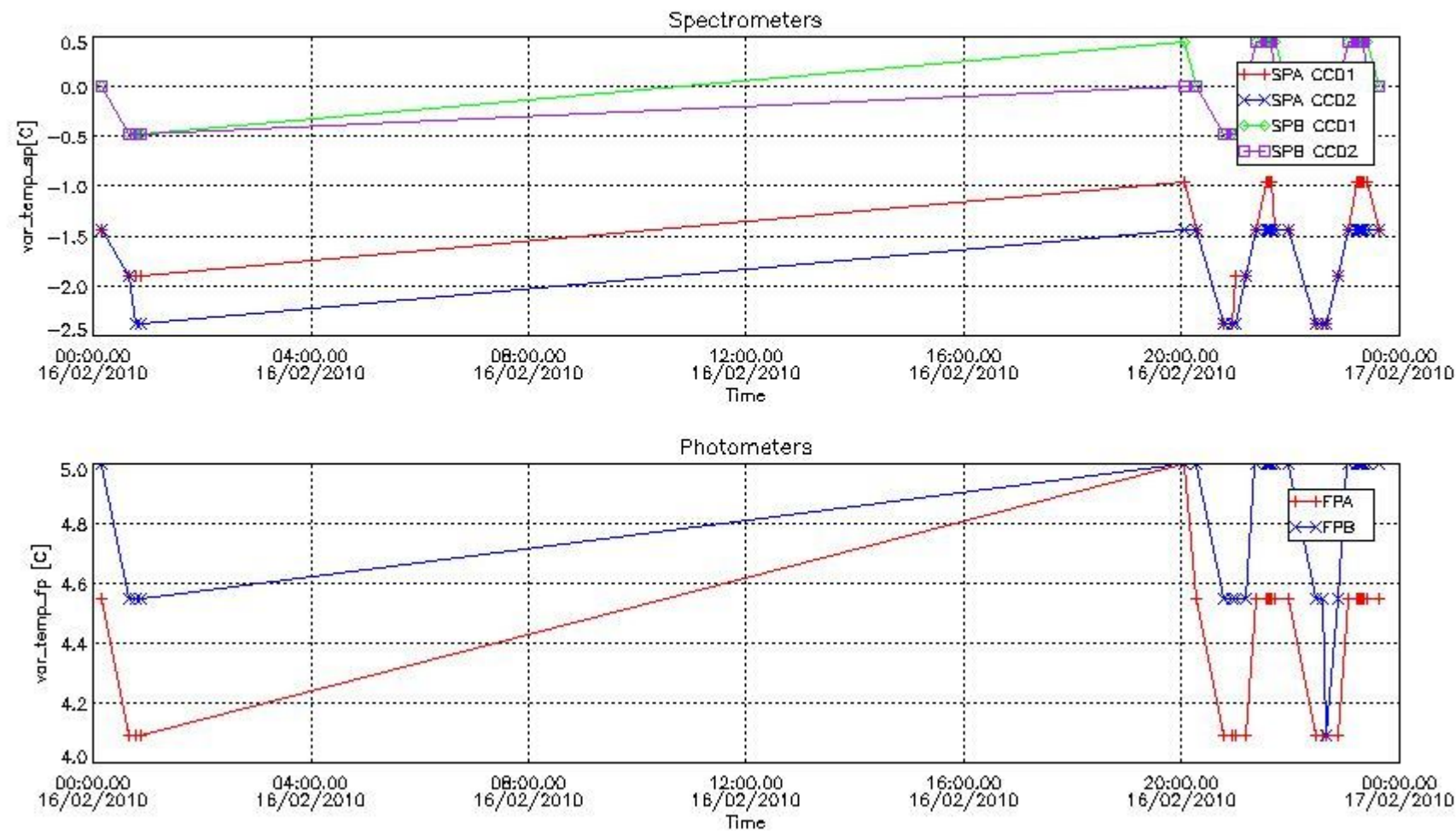
16-FEB-2010 18:25:46	LamVel	65	41650
16-FEB-2010 18:46:29	78BetGem	17	41650
16-FEB-2010 19:03:50	1AlpUMi	49	41650
16-FEB-2010 19:16:35	18DelCyg	144	41650
16-FEB-2010 19:25:48	17ZetAql	168	41650
16-FEB-2010 19:37:24	22LamSgr	137	41650
16-FEB-2010 19:39:50	20EpsSgr	38	41650
16-FEB-2010 19:45:02	AlpAra	147	41650
16-FEB-2010 19:50:24	BetTrA	134	41651
16-FEB-2010 20:06:22	LamVel	65	41651
16-FEB-2010 20:27:05	78BetGem	17	41651
16-FEB-2010 20:44:26	1AlpUMi	49	41651
16-FEB-2010 20:57:11	18DelCyg	144	41651
16-FEB-2010 21:06:24	17ZetAql	168	41651
16-FEB-2010 21:18:00	22LamSgr	137	41651
16-FEB-2010 21:20:26	20EpsSgr	38	41651
16-FEB-2010 21:25:39	AlpAra	147	41651
16-FEB-2010 21:31:00	BetTrA	134	41652
16-FEB-2010 21:46:59	LamVel	65	41652
16-FEB-2010 22:07:41	78BetGem	17	41652
16-FEB-2010 22:08:50	66AlpGem	24	41652
16-FEB-2010 22:25:02	1AlpUMi	49	41652
16-FEB-2010 22:37:47	18DelCyg	144	41652
16-FEB-2010 22:47:00	17ZetAql	168	41652
16-FEB-2010 22:58:36	22LamSgr	137	41652
16-FEB-2010 23:01:03	20EpsSgr	38	41652
16-FEB-2010 23:06:15	AlpAra	147	41652
16-FEB-2010 23:07:41	BetAra	141	41652
16-FEB-2010 23:11:37	BetTrA	134	41653
16-FEB-2010 23:27:35	LamVel	65	41653
16-FEB-2010 23:48:17	78BetGem	17	41653
16-FEB-2010 23:49:26	66AlpGem	24	41653

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_1PNPDE20100216_000856_000000522087_00002_41639_1178.N1	16-FEB-2010 00:08:56	Straylight	51.500	48	30Alp Hya	1.9770	4100.0	103	41639	No
2	GOM_TRA_1PNPDE20100216_003910_000000412087_00002_41639_1179.N1	16-FEB-2010 00:39:10	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41639	No
3	GOM_TRA_1PNPDE20100216_004750_000000432087_00002_41639_1180.N1	16-FEB-2010 00:47:50	Bright	43.000	130	23Bet Dra	2.7990	5800.0	86	41639	No
4	GOM_TRA_1PNPDE20100216_005206_000000362087_00002_41639_1181.N1	16-FEB-2010 00:52:06	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	41639	No
5	GOM_TRA_1PNPDE20100216_200239_000000442087_00014_41651_9561.N1	16-FEB-2010 20:02:39	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	41651	No
6	GOM_TRA_1PNPDE20100216_201608_000000502087_00014_41651_9562.N1	16-FEB-2010 20:16:08	Straylight	49.500	48	30Alp Hya	1.9770	4100.0	99	41651	No
7	GOM_TRA_1PNPDE20100216_204618_000000392087_00014_41651_9563.N1	16-FEB-2010 20:46:18	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	41651	No
8	GOM_TRA_1PNPDE20100216_205459_000000442087_00014_41651_9564.N1	16-FEB-2010 20:54:59	Bright	44.000	130	23Bet Dra	2.7990	5800.0	88	41651	No
9	GOM_TRA_1PNPDE20100216_205918_000000372087_00014_41651_9565.N1	16-FEB-2010 20:59:18	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41651	No
10	GOM_TRA_1PNPDE20100216_211049_000000512087_00014_41651_9566.N1	16-FEB-2010 21:10:49	Twilight_stray	51.000	126	60Bet Oph	2.7700	4250.0	102	41651	No
11	GOM_TRA_1PNPDE20100216_212231_000000412087_00014_41651_9579.N1	16-FEB-2010 21:22:31	Dark	41.000	25	35Lam Sco	1.6200	28000.	82	41651	No
12	GOM_TRA_1PNPDE20100216_213309_000000422087_00015_41652_9580.N1	16-FEB-2010 21:33:09	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	41652	No
13	GOM_TRA_1PNPDE20100216_213429_000000452087_00015_41652_9581.N1	16-FEB-2010 21:34:29	Dark	44.500	10	Bet Cen	0.61000	28000.	89	41652	No
14	GOM_TRA_1PNPDE20100216_213553_000000422087_00015_41652_9582.N1	16-FEB-2010 21:35:53	Dark	41.500	77	Eps Cen	2.3030	28000.	83	41652	No
15	GOM_TRA_1PNPDE20100216_213731_000000482087_00015_41652_9583.N1	16-FEB-2010 21:37:31	Dark	48.000	12	Alp1Cru	0.77500	30000.	96	41652	No
16	GOM_TRA_1PNPDE20100216_213915_000000462087_00015_41652_9584.N1	16-FEB-2010 21:39:15	Dark	45.500	64	Gam Cen	2.2000	10600.	91	41652	No
17	GOM_TRA_1PNPDE20100216_214315_000000472087_00015_41652_9585.N1	16-FEB-2010 21:43:15	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	41652	No
18	GOM_TRA_1PNPDE20100216_215644_000000482087_00015_41652_9586.N1	16-FEB-2010 21:56:44	Straylight	48.000	48	30Alp Hya	1.9770	4100.0	96	41652	No
19	GOM_TRA_1PNPDE20100216_222653_000000432087_00015_41652_9587.N1	16-FEB-2010 22:26:53	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	41652	No
20	GOM_TRA_1PNPDE20100216_223535_000000442087_00015_41652_9588.N1	16-FEB-2010 22:35:35	Bright	43.500	130	23Bet Dra	2.7990	5800.0	87	41652	No
21	GOM_TRA_1PNPDE20100216_223954_000000412087_00015_41652_9589.N1	16-FEB-2010 22:39:54	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	41652	No
22	GOM_TRA_1PNPDE20100216_225125_000000532087_00015_41652_9590.N1	16-FEB-2010 22:51:25	Twilight_stray	53.000	126	60Bet Oph	2.7700	4250.0	106	41652	No

23	GOM_TRA_1PNPDE20100216_230308_000000452087_00015_41652_9599.N1	16-FEB-2010 23:03:08	Dark	44.500	25	35Lam Sco	1.6200	28000.	89	41652	No
24	GOM_TRA_1PNPDE20100216_231346_000000432087_00016_41653_9600.N1	16-FEB-2010 23:13:46	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	41653	No
25	GOM_TRA_1PNPDE20100216_231505_000000432087_00016_41653_9601.N1	16-FEB-2010 23:15:05	Dark	43.000	10	Bet Cen	0.610000	28000.	86	41653	No
26	GOM_TRA_1PNPDE20100216_231630_000000442087_00016_41653_9602.N1	16-FEB-2010 23:16:30	Dark	43.500	77	Eps Cen	2.3030	28000.	87	41653	No
27	GOM_TRA_1PNPDE20100216_231807_000000402087_00016_41653_9603.N1	16-FEB-2010 23:18:07	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	41653	No
28	GOM_TRA_1PNPDE20100216_231952_000000532087_00016_41653_9604.N1	16-FEB-2010 23:19:52	Dark	52.500	64	Gam Cen	2.2000	10600.	105	41653	No
29	GOM_TRA_1PNPDE20100216_232351_000000462087_00016_41653_9605.N1	16-FEB-2010 23:23:51	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	41653	No
30	GOM_TRA_1PNPDE20100216_233719_000000512087_00016_41653_9606.N1	16-FEB-2010 23:37:19	Straylight	50.500	48	30Alp Hya	1.9770	4100.0	101	41653	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).

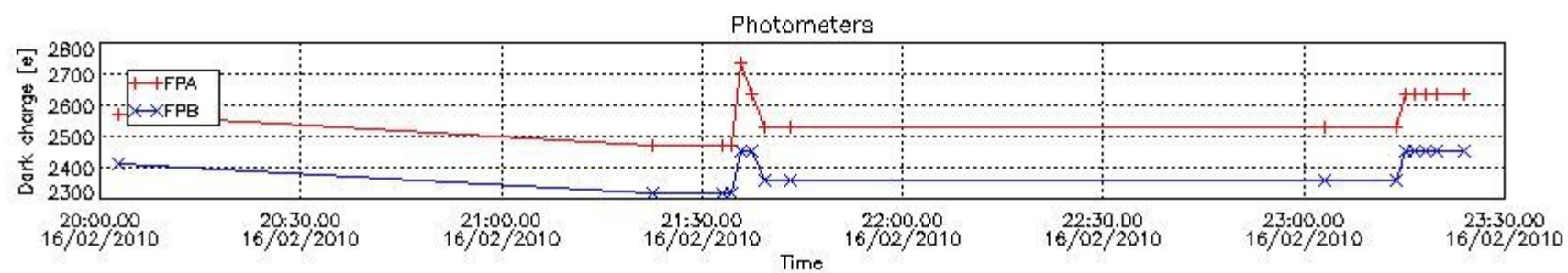
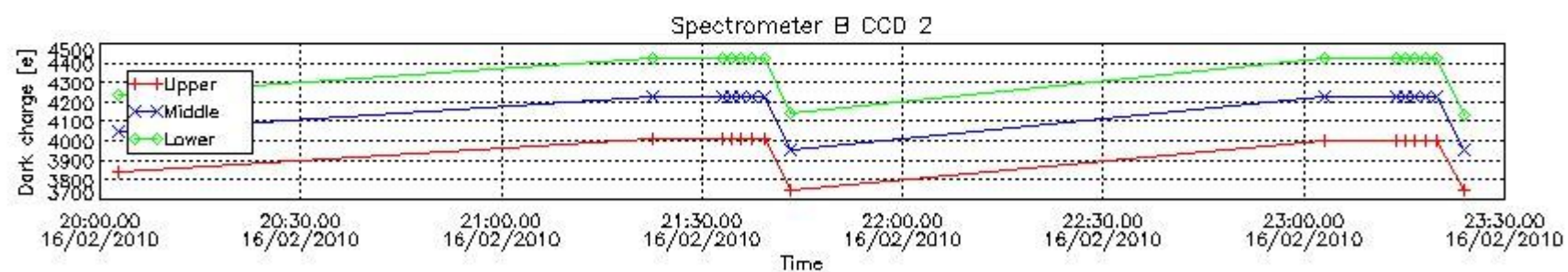
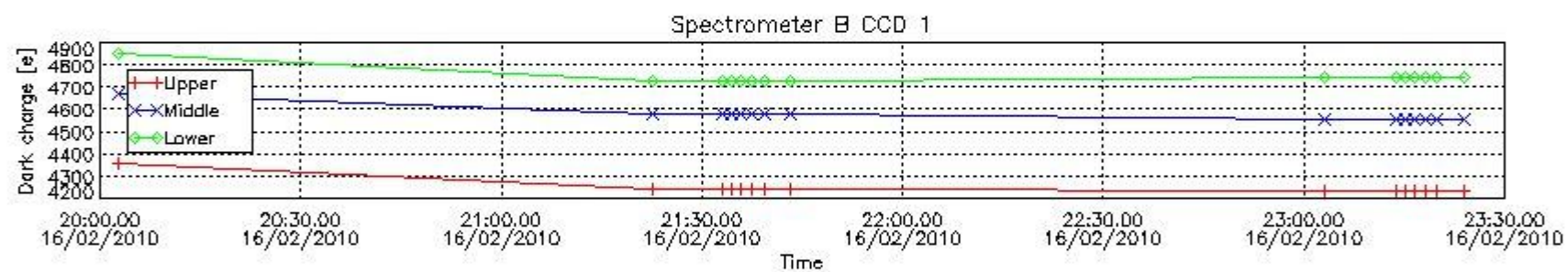
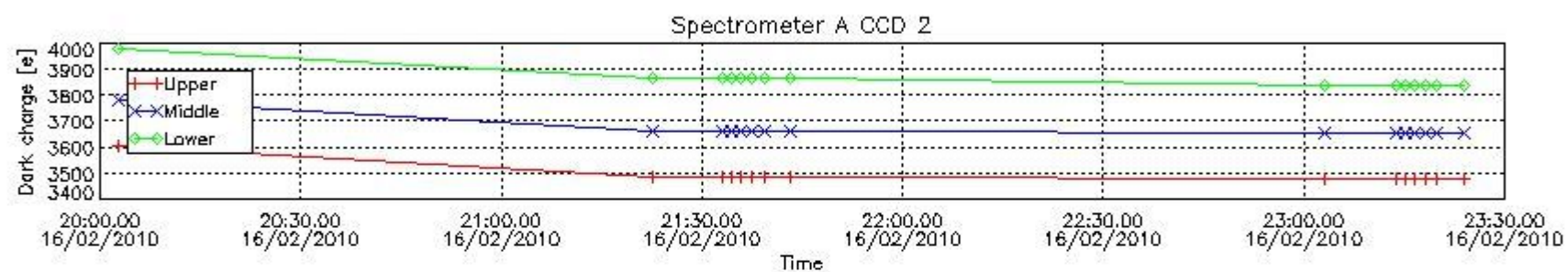
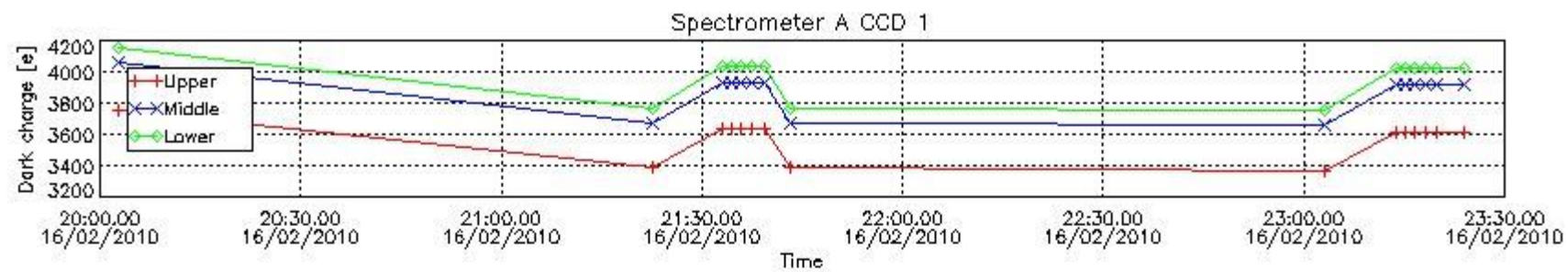
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20100216_200239_000000442087_00014_41651_9561.N1	DC map used
GOM_TRA_1PNPDE20100216_201608_000000502087_00014_41651_9562.N1	DC map used

GOM_TRA_1PNPDE20100216_204618_000000392087_00014_41651_9563.N1	DC map used
GOM_TRA_1PNPDE20100216_205459_000000442087_00014_41651_9564.N1	DC map used
GOM_TRA_1PNPDE20100216_205918_000000372087_00014_41651_9565.N1	DC map used
GOM_TRA_1PNPDE20100216_211049_000000512087_00014_41651_9566.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

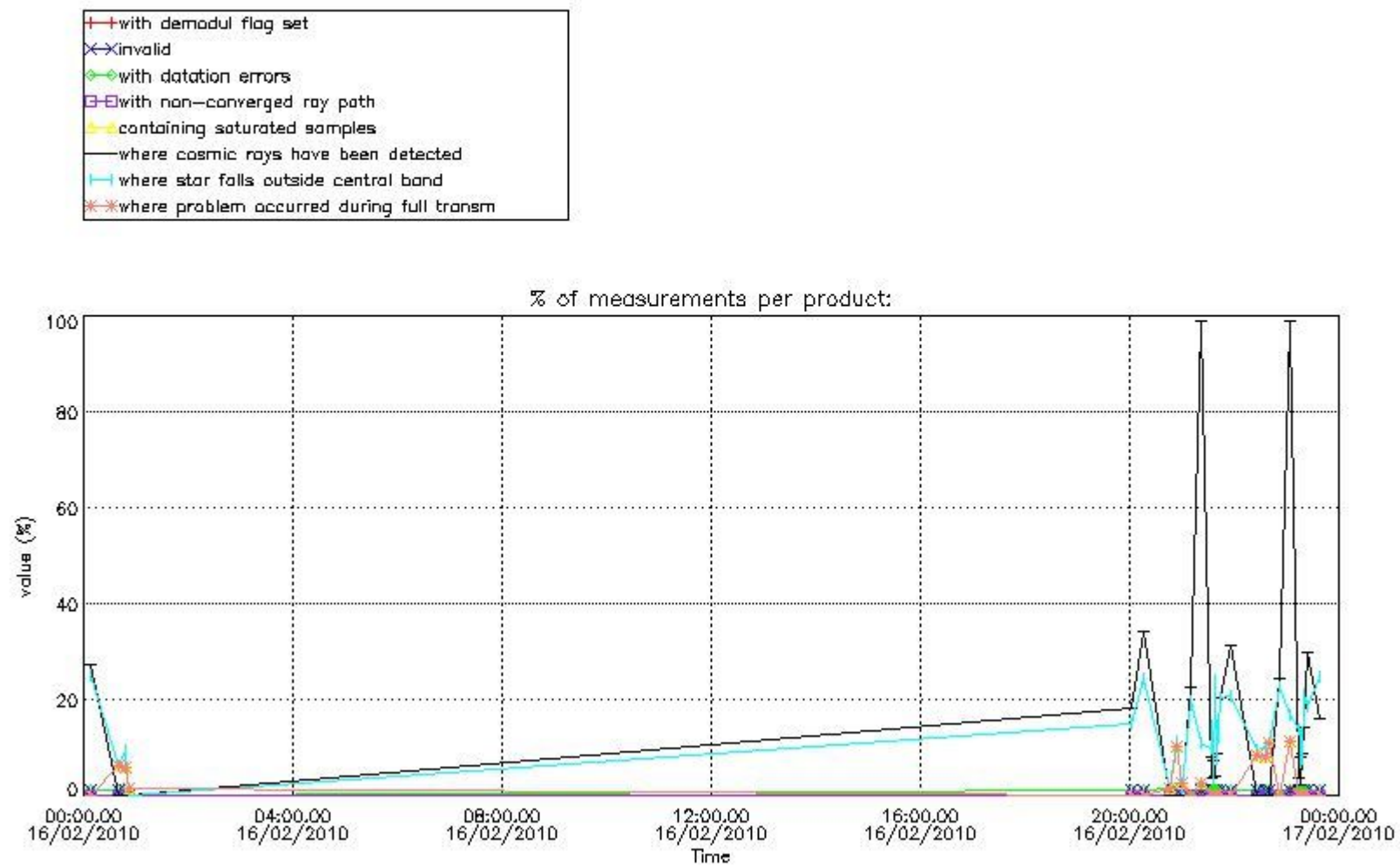
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

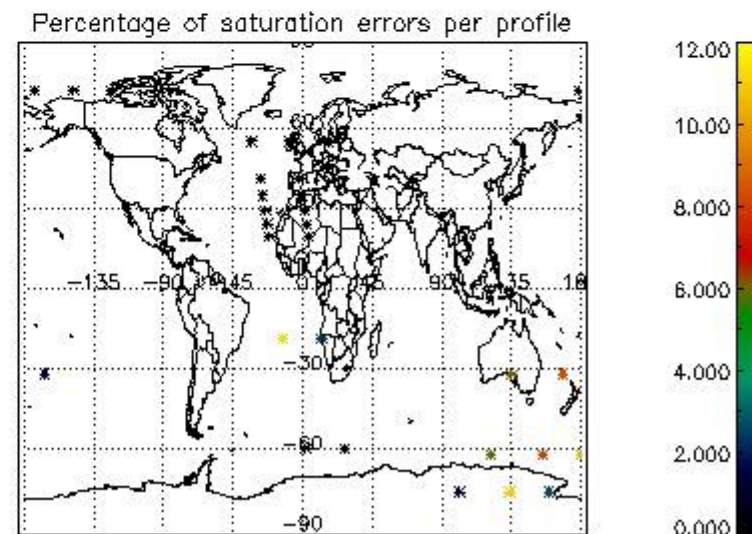
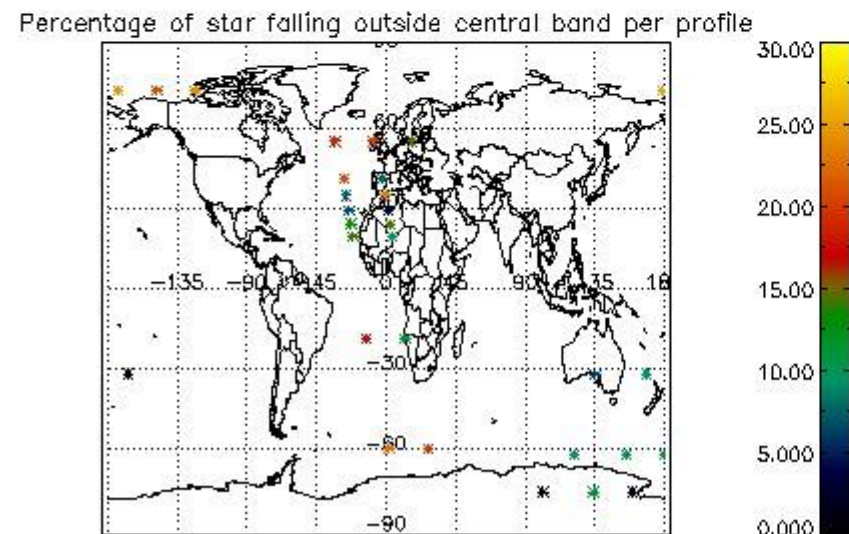
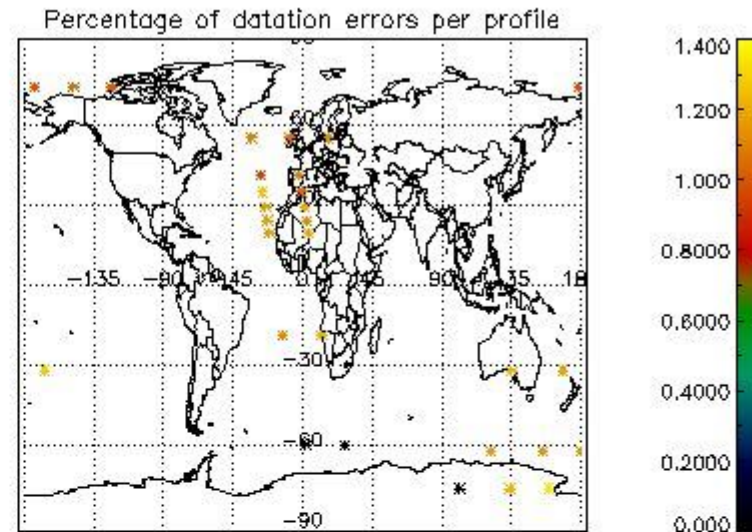
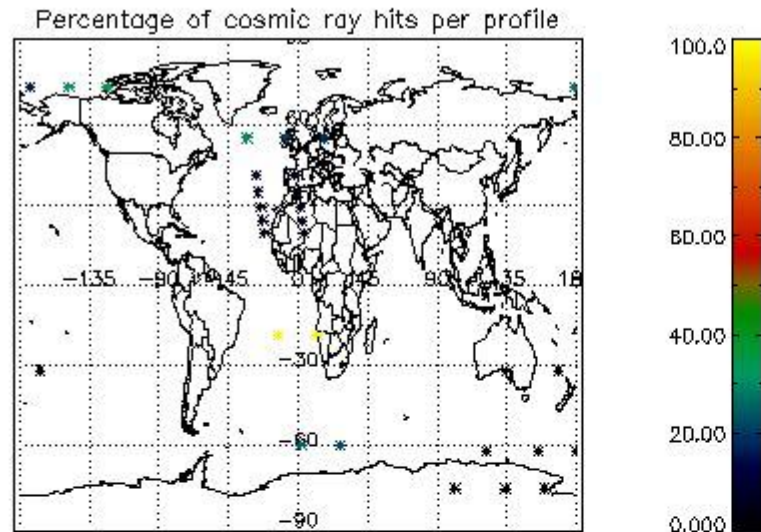
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	46.6667 %
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)



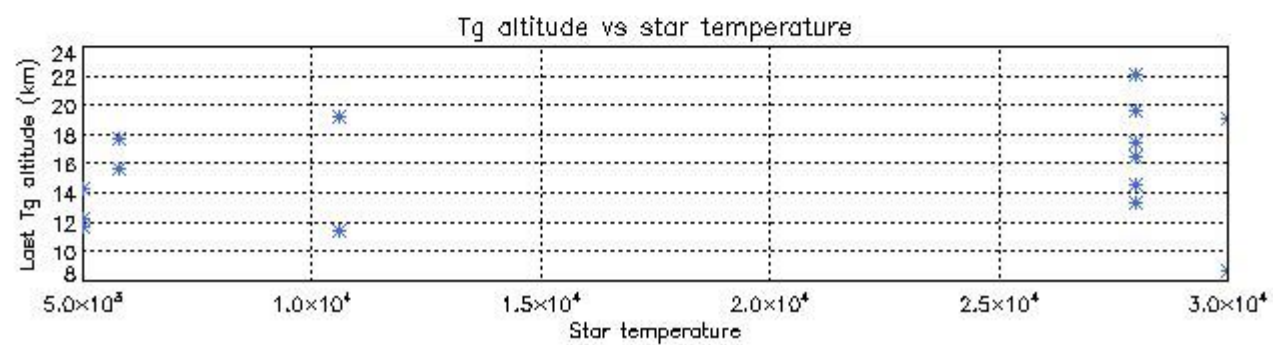
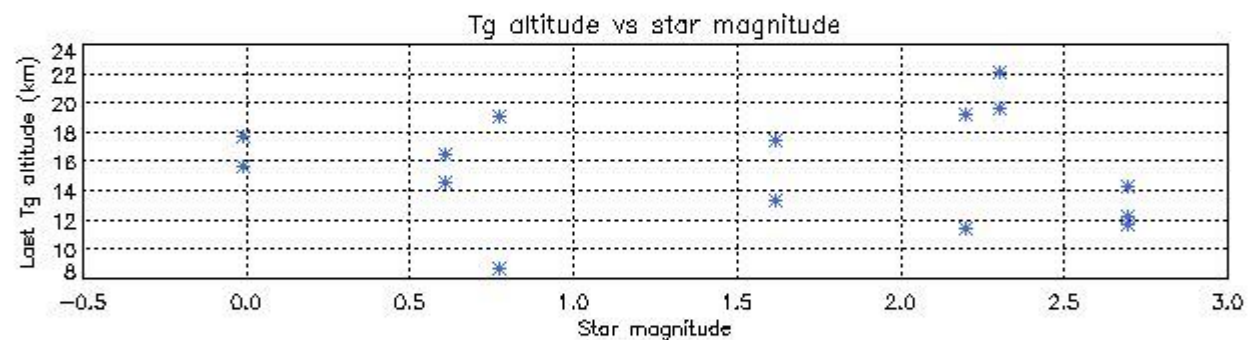
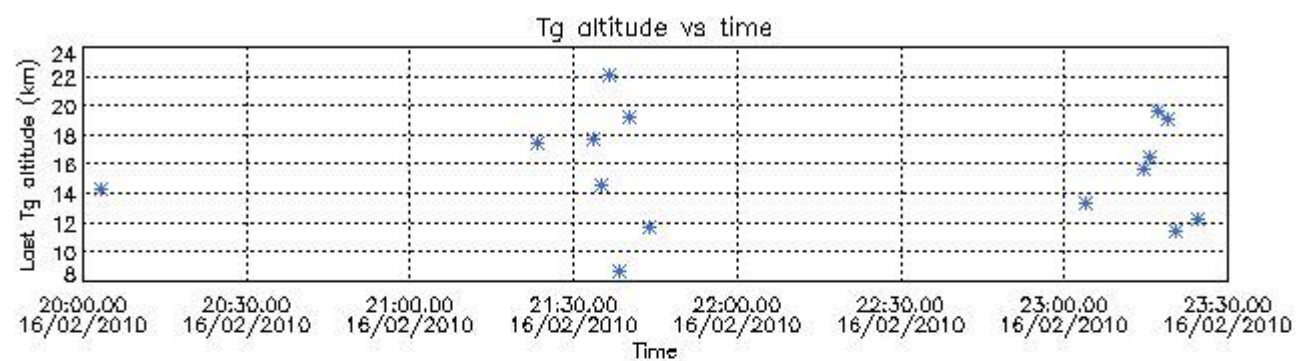
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.558	19.852	NaN
St. deviation:	3.6943	3.1644	NaN
Maximum:	22.048	25.201	NaN
Minimum:	8.6484	15.747	NaN
Number of data:	15.000	9.0000	NaN

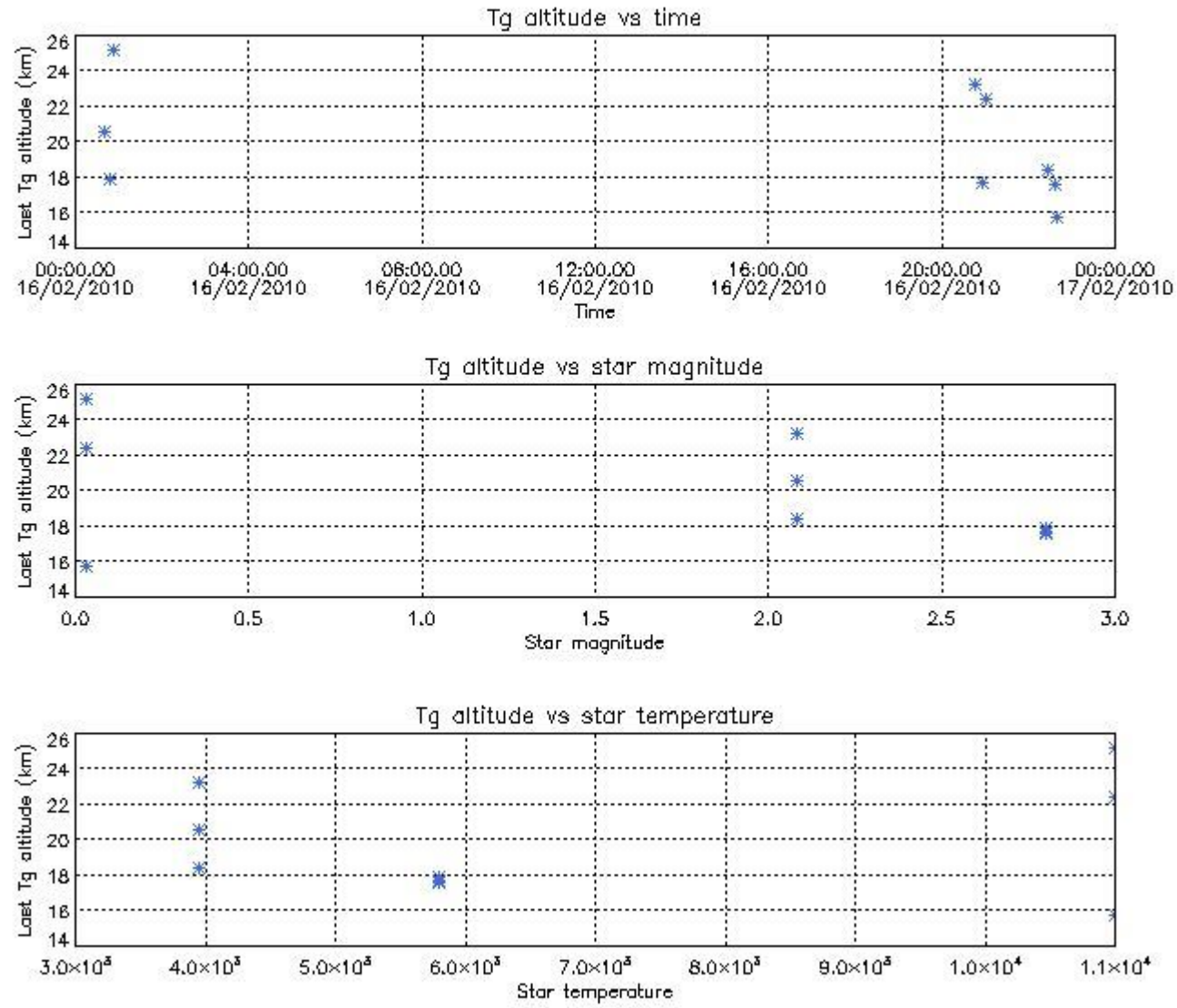
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

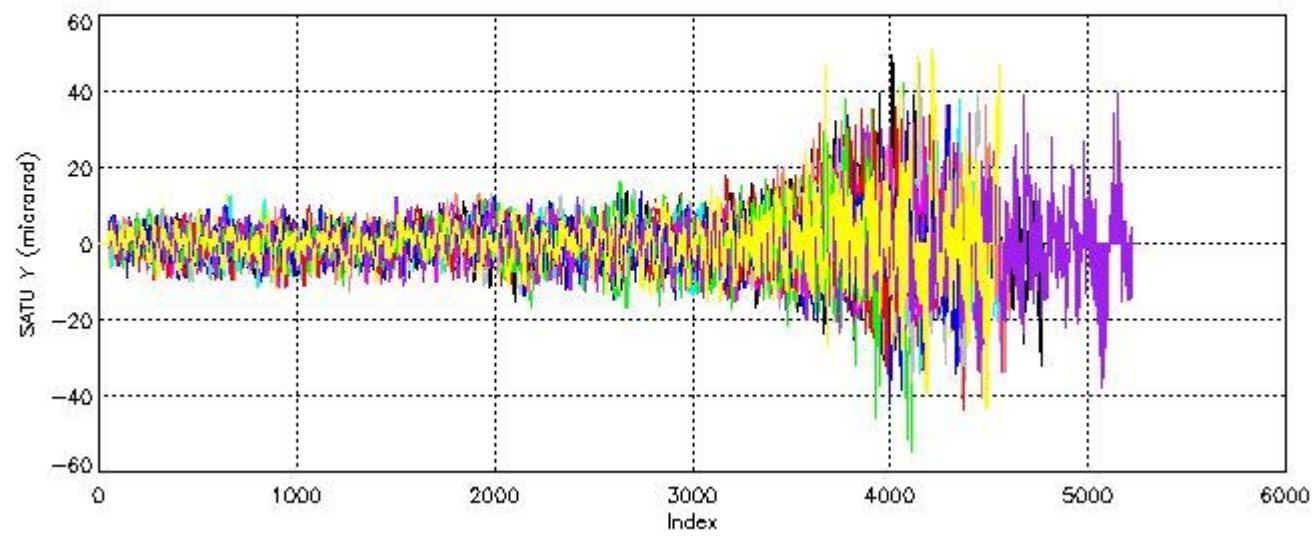
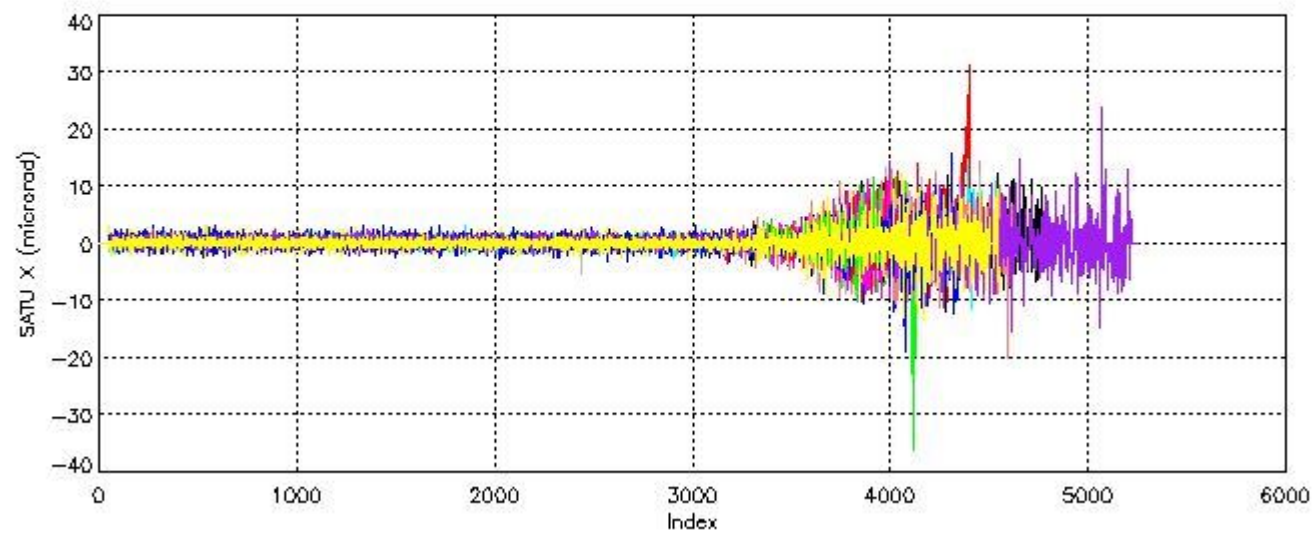


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.18595	-0.12610	0.15463	-0.40408
St. deviation:	0.47295	3.3896	0.42754	3.1446
Maximum:	3.2000	12.500	3.6000	10.500
Minimum:	-2.5000	-11.900	-2.8000	-11.600

Number of data:	14450.	14450.	8300.0	8300.0
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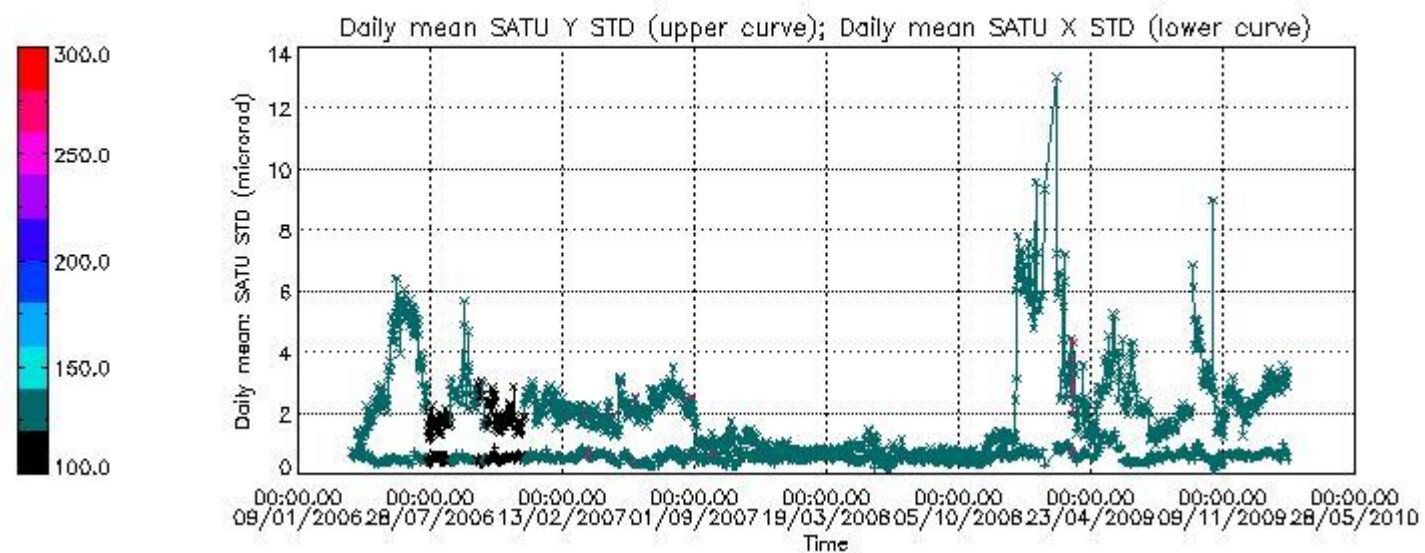
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

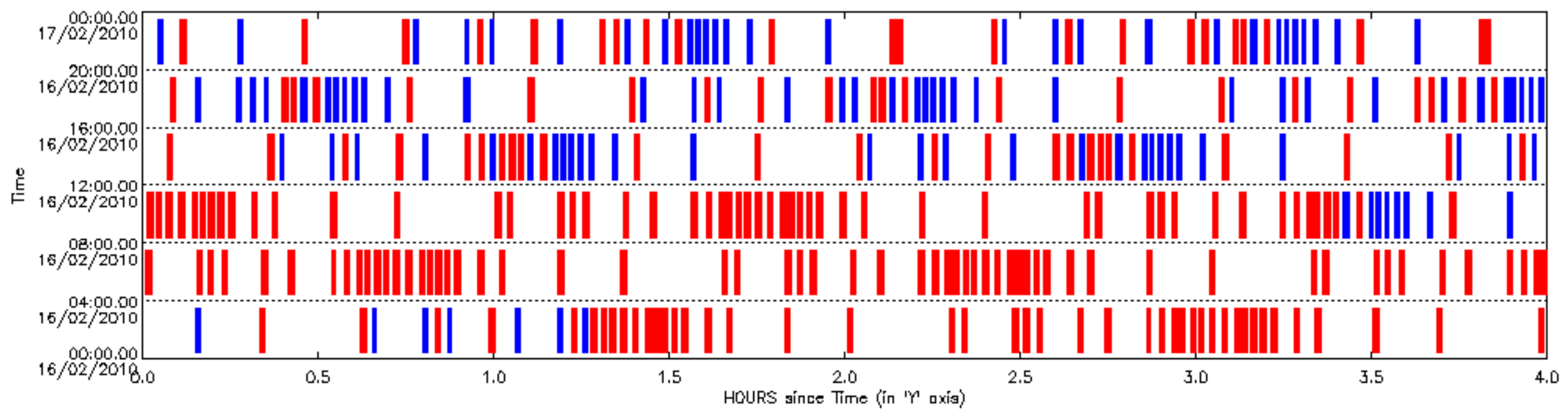
Lower curve: STD of SATU X axis

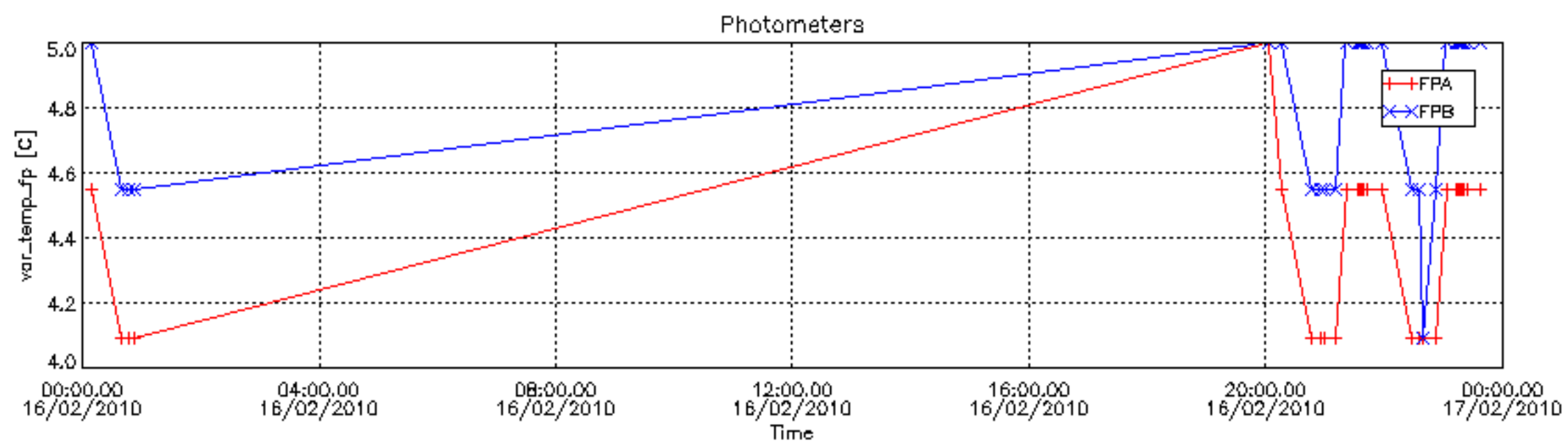
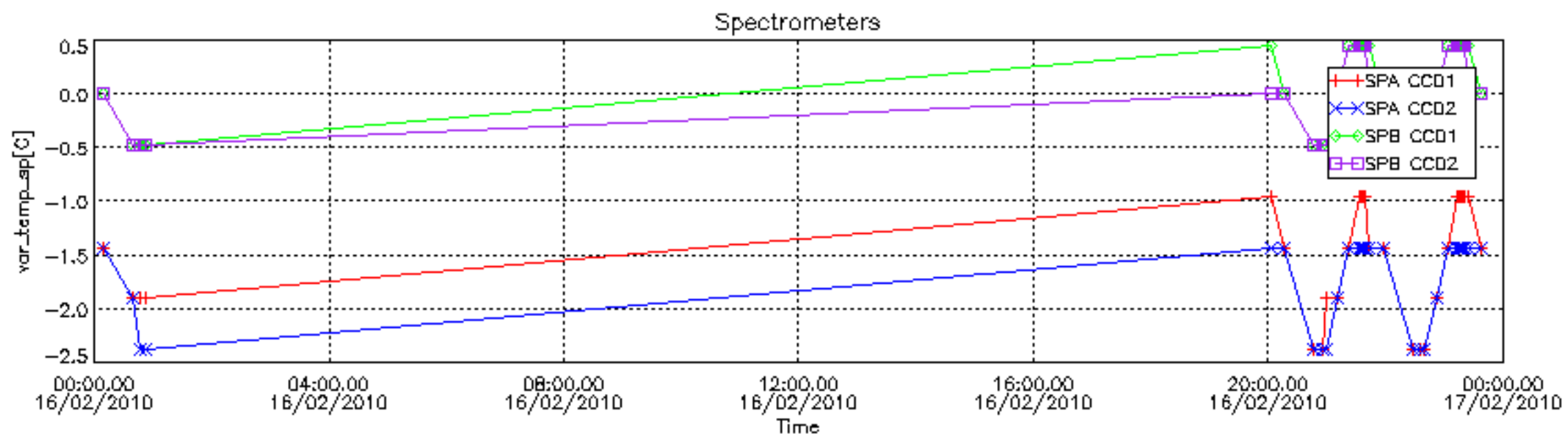


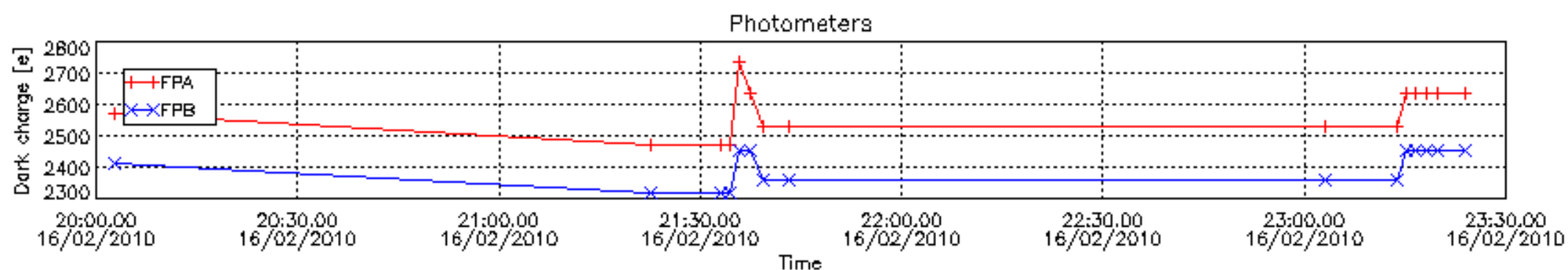
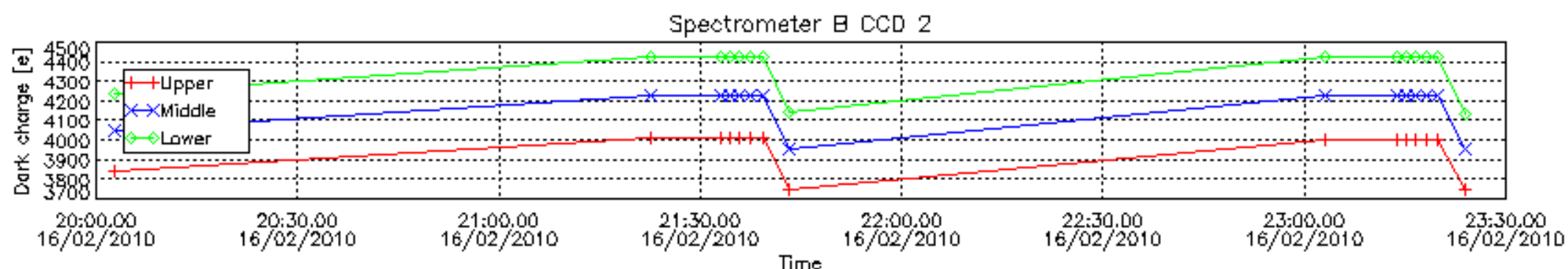
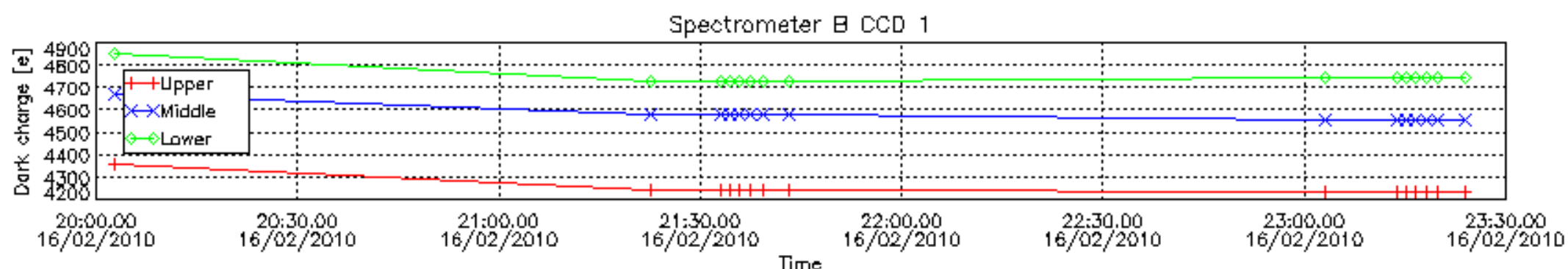
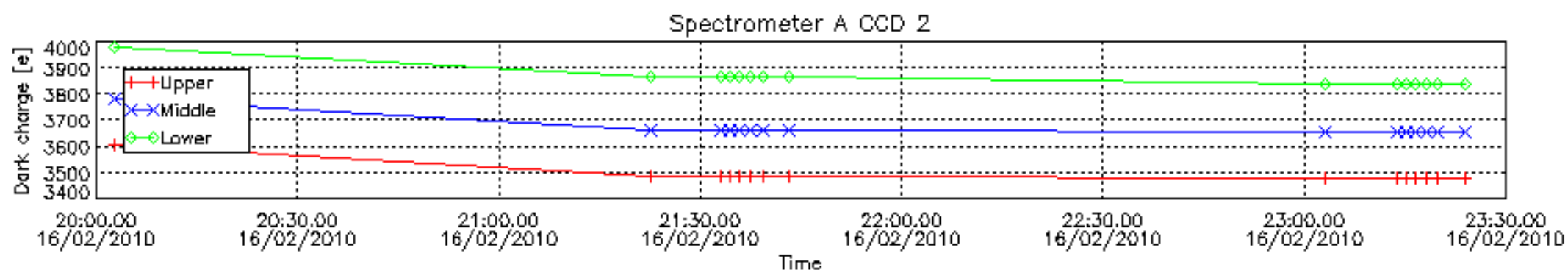
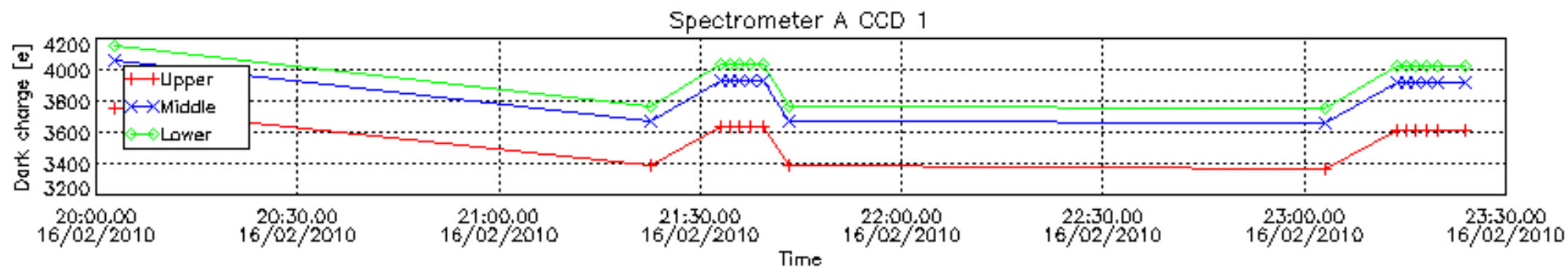
8. Auxiliary Data Files used for the production reported in section 2.4

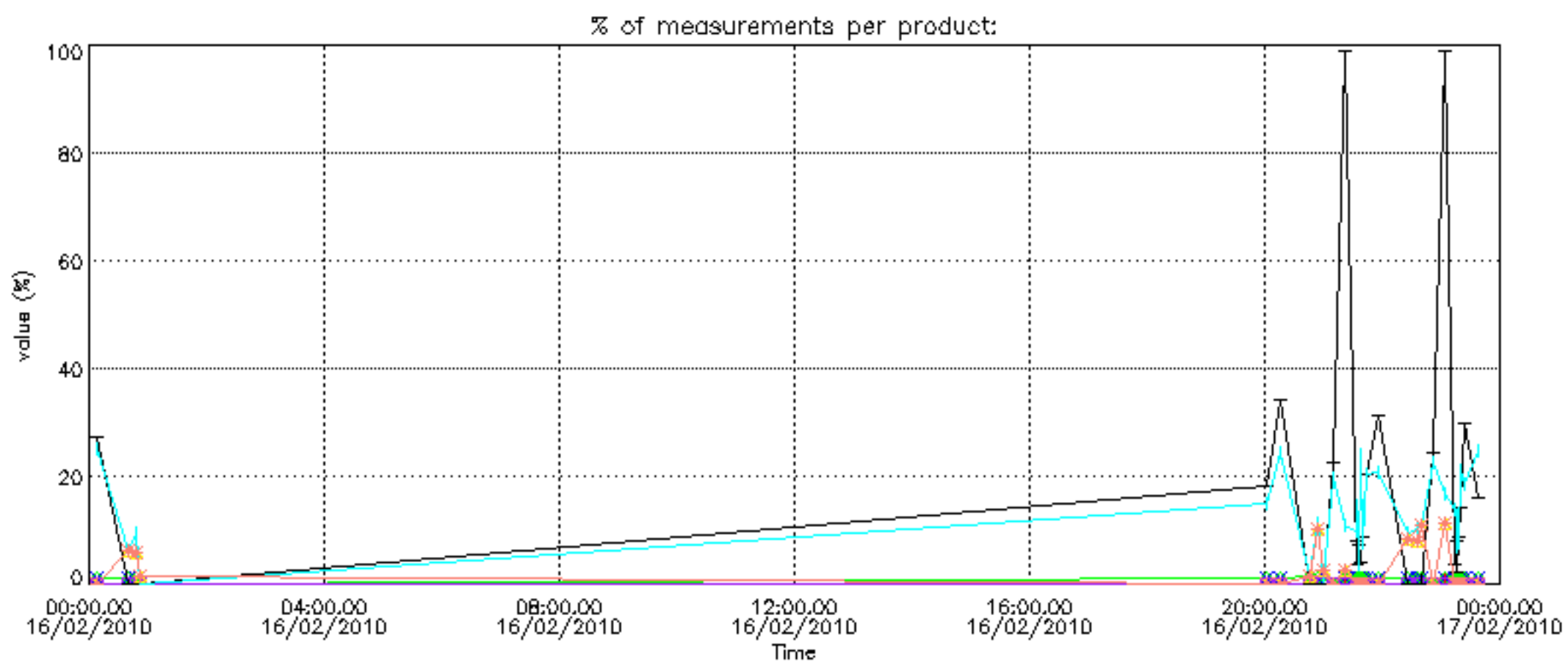
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-FEB-2010 00:08:56
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100210_103840_20100209_000000_20500101_000000	1	16-FEB-2010 00:08:56
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100216_142029_20100214_000000_20500101_000000	5	16-FEB-2010 20:02:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-FEB-2010 00:08:56
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-FEB-2010 00:08:56
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-FEB-2010 00:08:56
ECMWF_FILE	AUX_ECF_AXNECM20100215_140548_20100215_210000_20100216_090000	1	16-FEB-2010 00:08:56
ECMWF_FILE	AUX_ECF_AXNECM20100216_062113_20100216_150000_20100217_030000	5	16-FEB-2010 20:02:39
ECMWF_FILE	AUX_ECF_AXNECM20100216_062114_20100216_210000_20100217_090000	11	16-FEB-2010 21:22:31
OPTIONAL_ECMWF_FILE	MISSING	1	16-FEB-2010 00:08:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100215_230747_000057382087_00001_41638_9772.N1	1	16-FEB-2010 00:08:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100216_195622_000041442087_00014_41651_9773.N1	5	16-FEB-2010 20:02:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100216_211045_000057382087_00014_41651_9774.N1	11	16-FEB-2010 21:22:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100216_225142_000057382087_00015_41652_9775.N1	23	16-FEB-2010 23:03:08

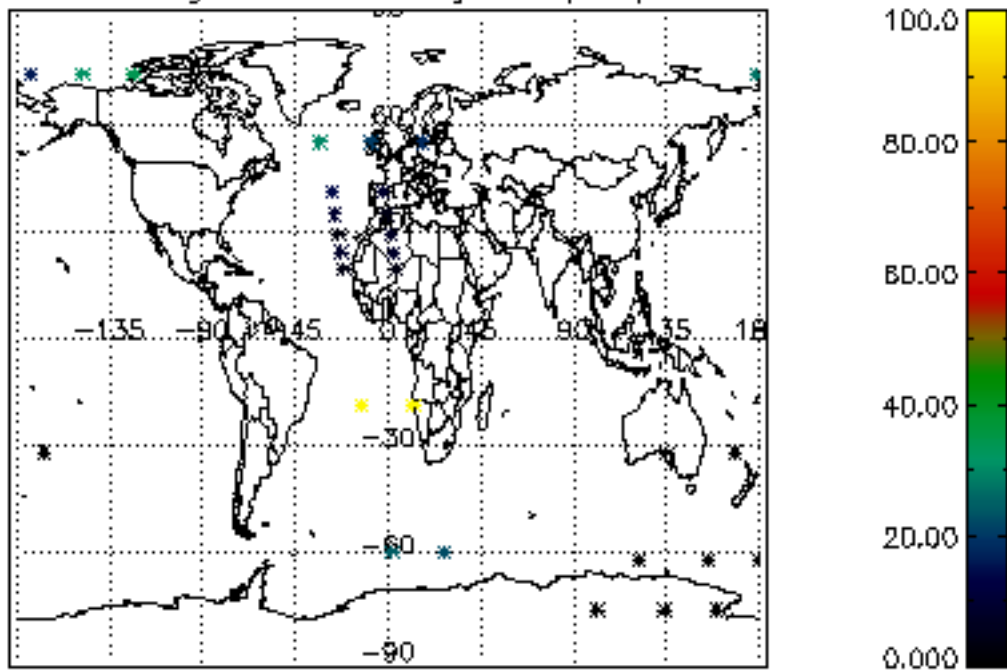




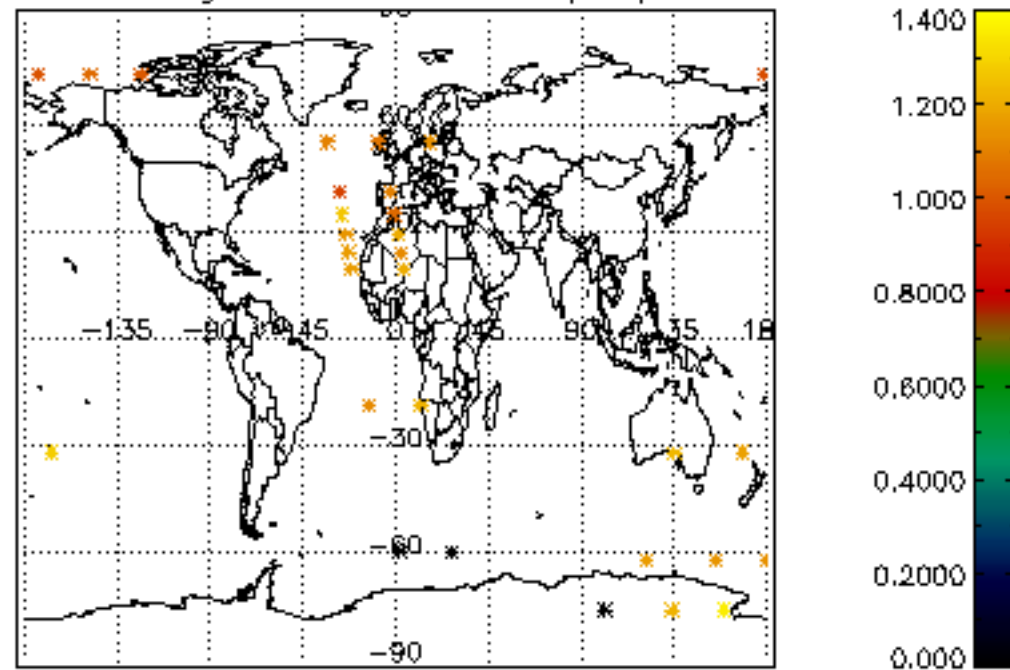




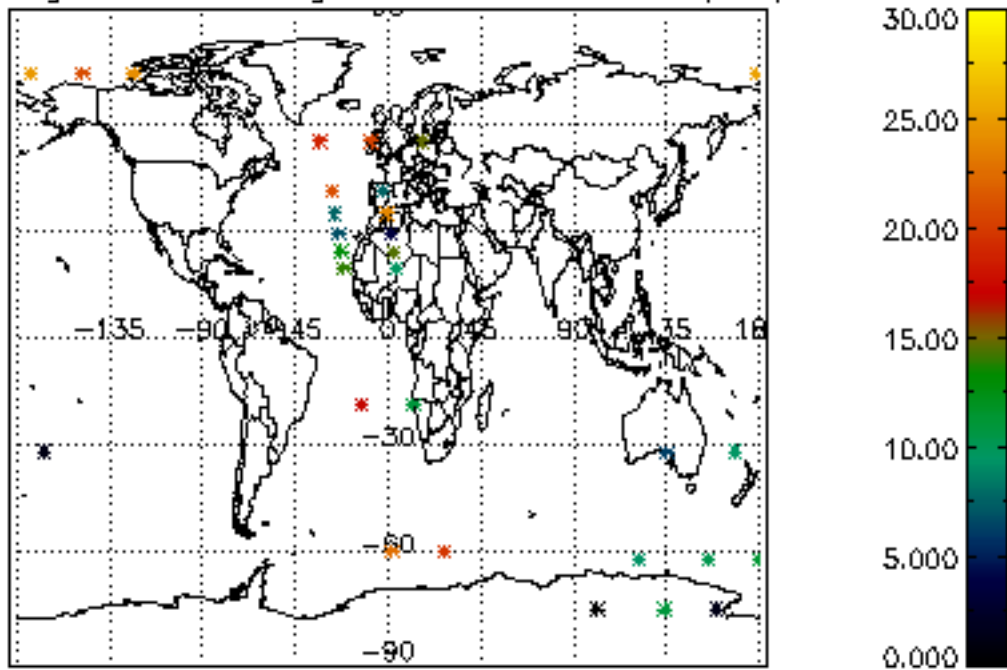
Percentage of cosmic ray hits per profile



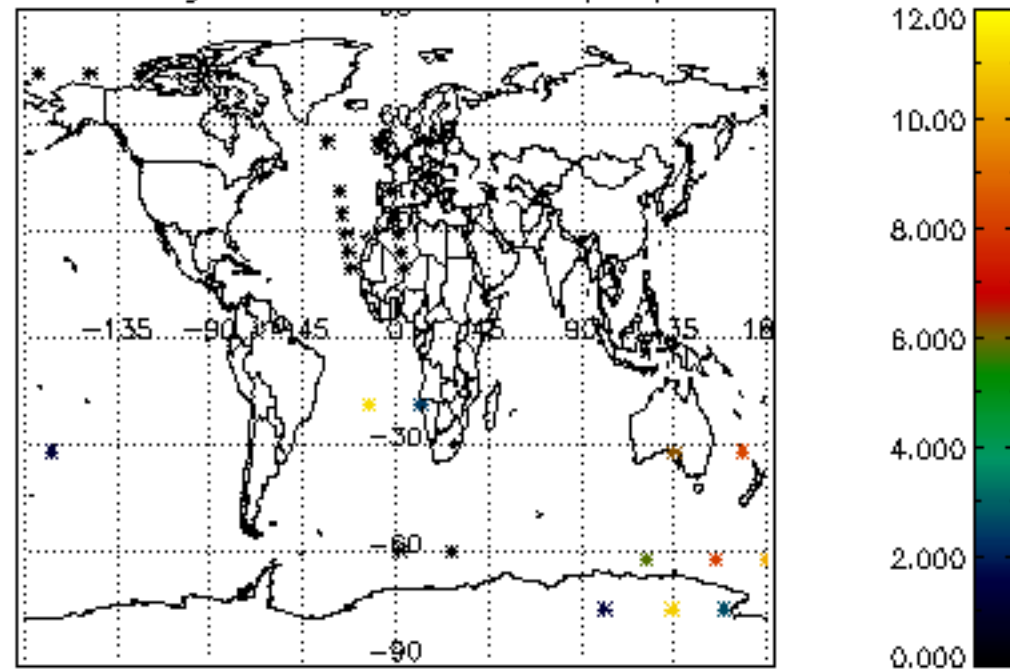
Percentage of datation errors per profile



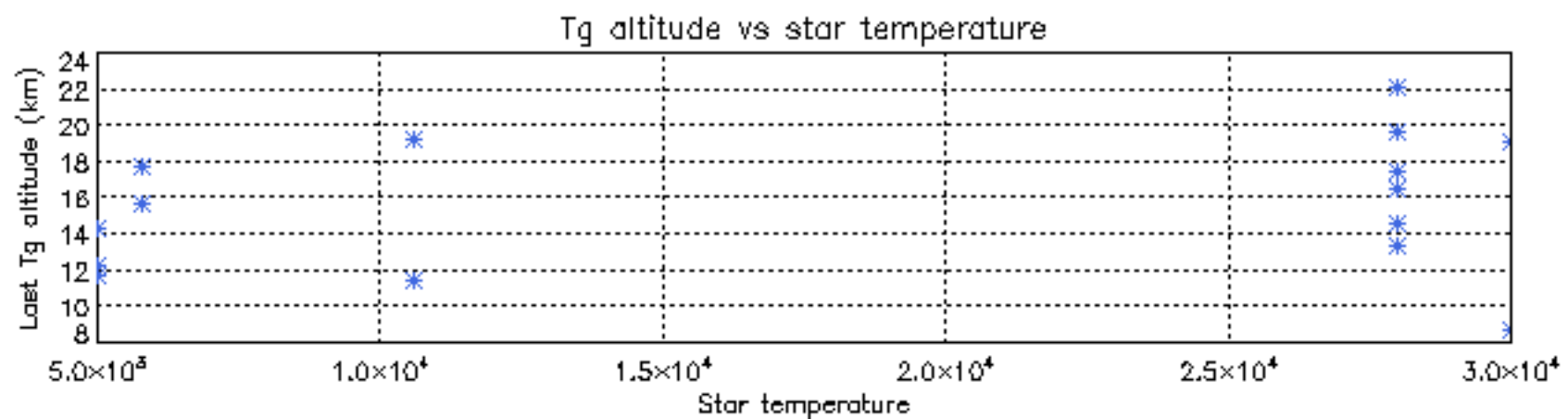
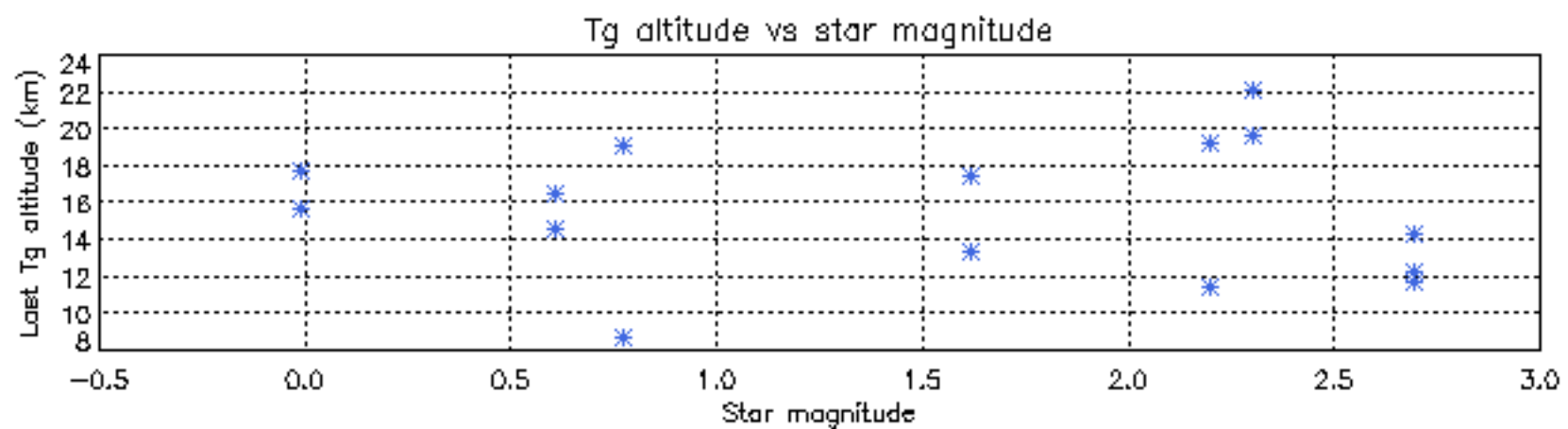
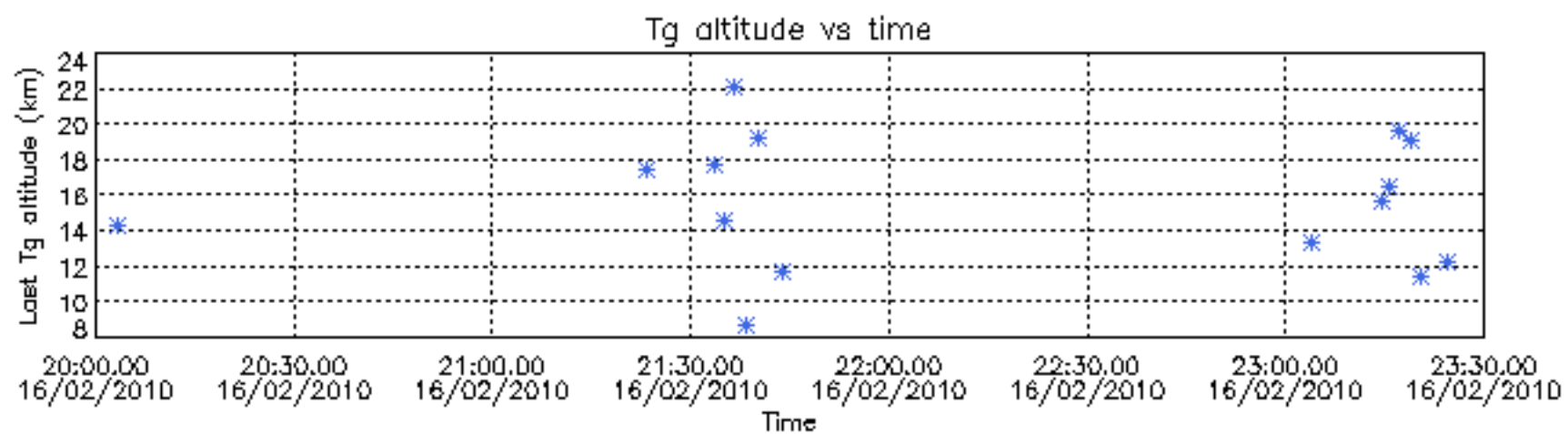
Percentage of star falling outside central band per profile



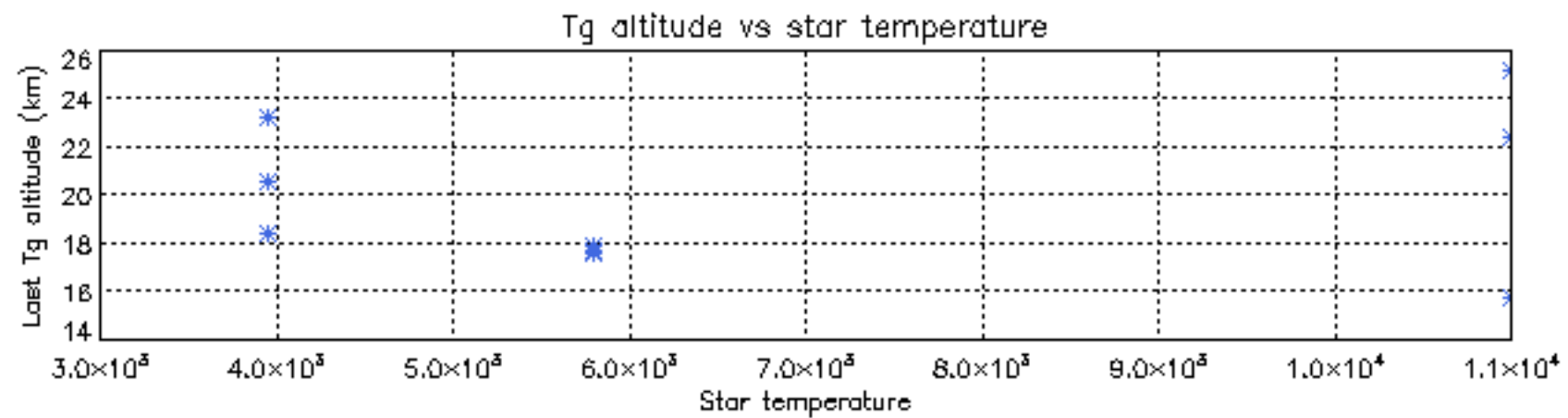
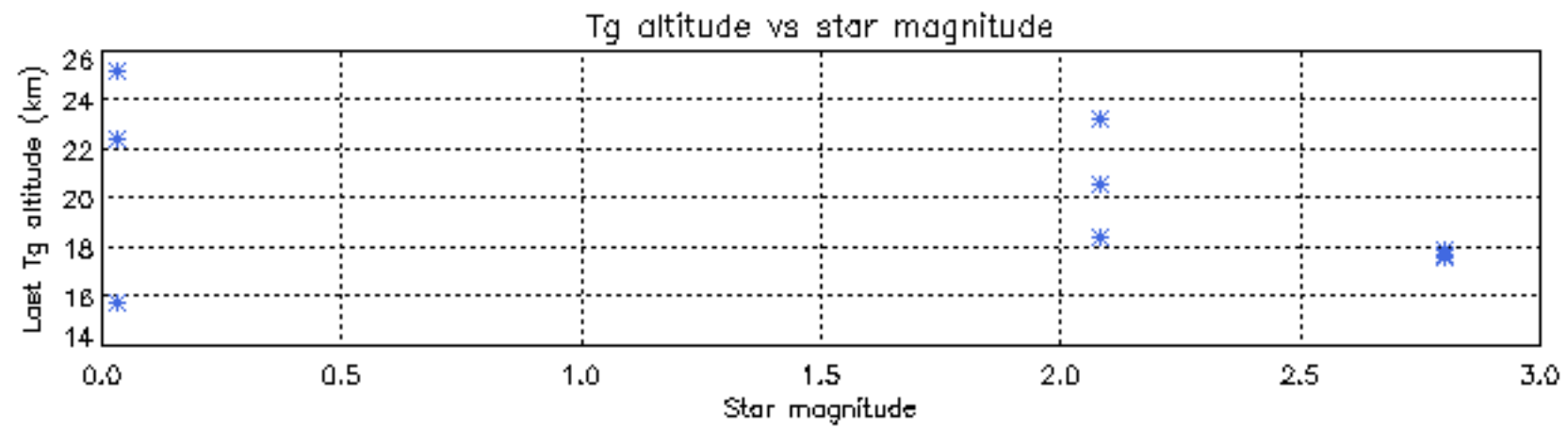
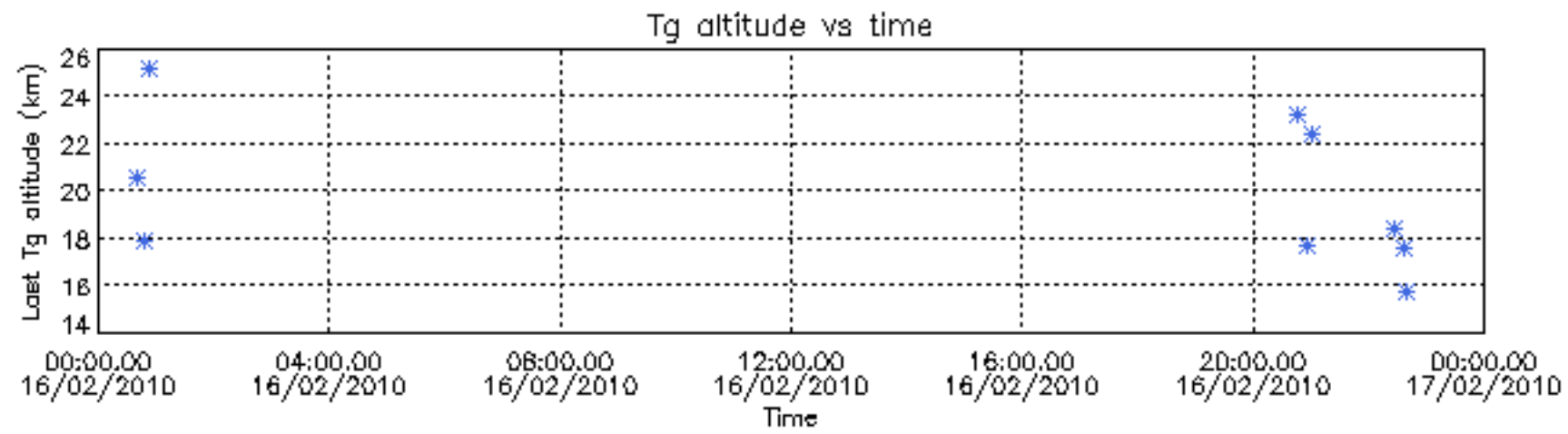
Percentage of saturation errors per profile

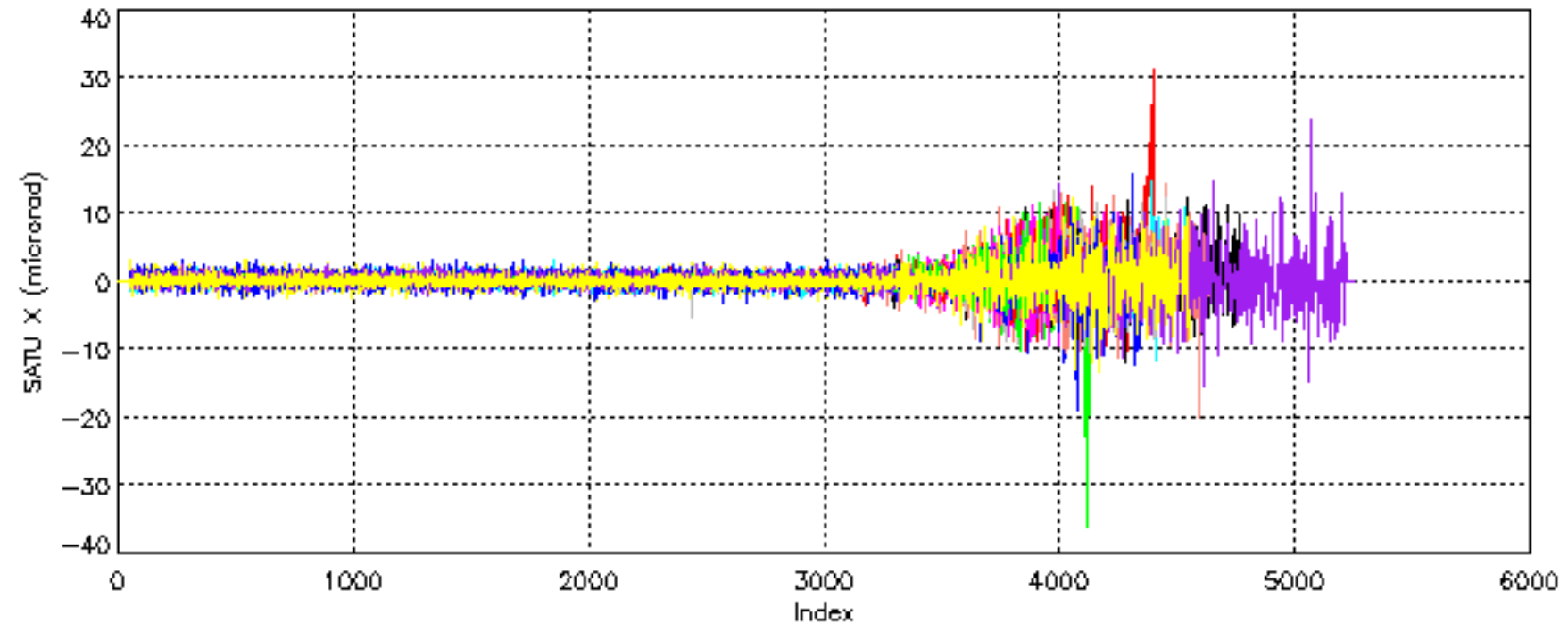


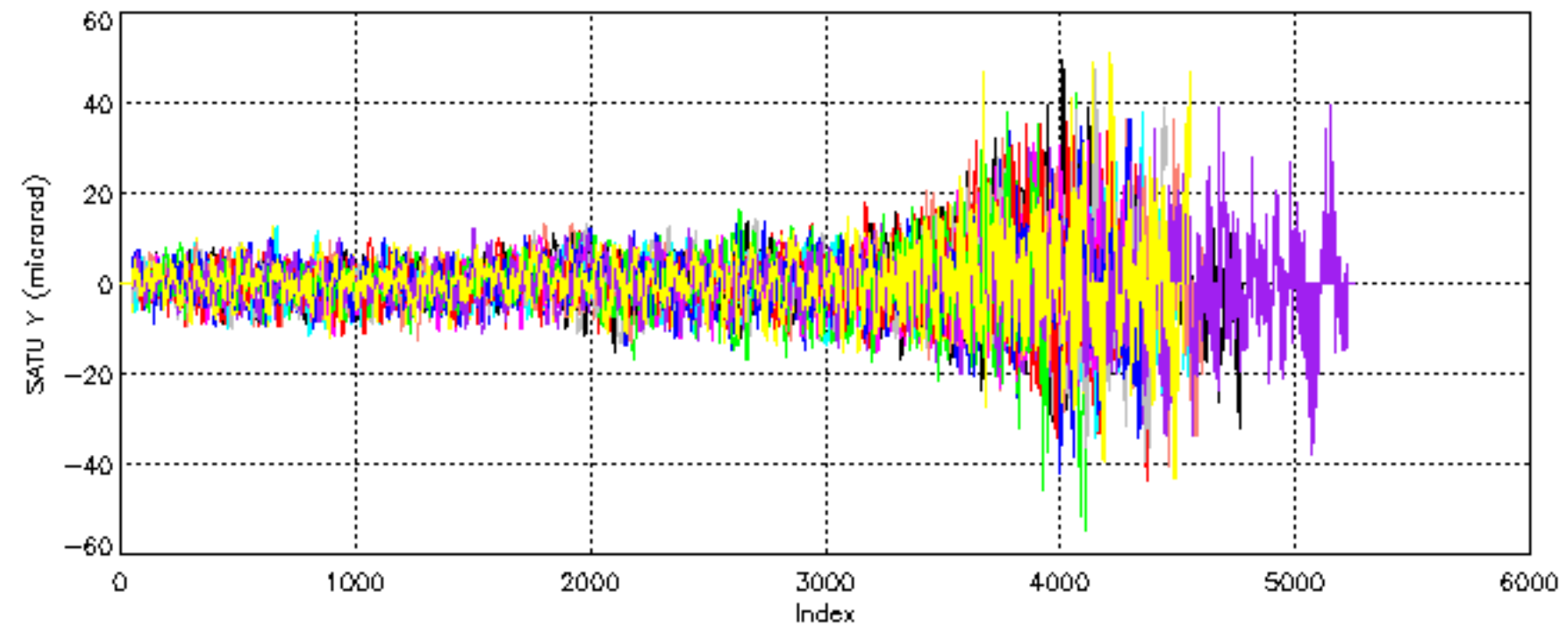
Tangent altitude at which the star is lost

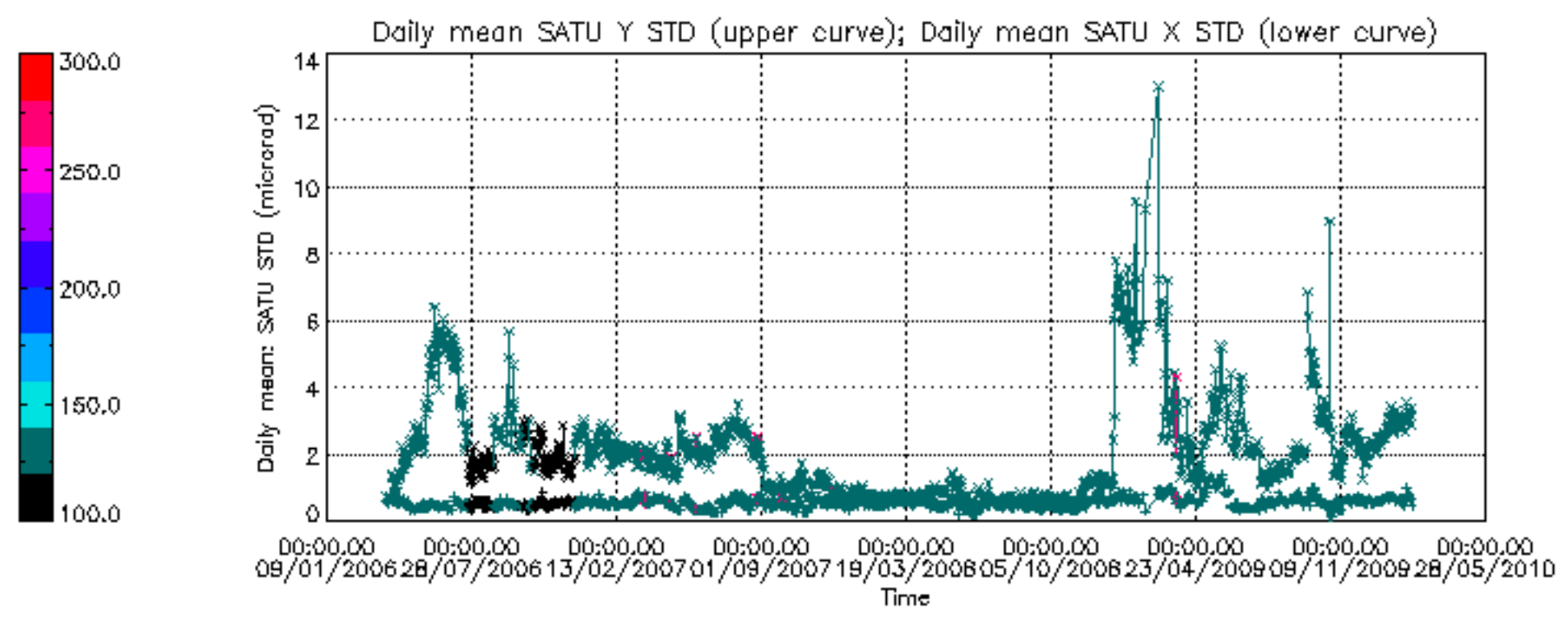


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__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
 14; 1205.0; 01-FEB-2010 01:11:55; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;41425
 15; 1467.4; 01-FEB-2010 01:16:17; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41425
 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
 20; 3613.3; 01-FEB-2010 01:52:03; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41425
 21; 3896.6; 01-FEB-2010 01:56:46; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;41425
 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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100201_021425_000045462086_00289_41425_9422.N1

1; -1080.7; 01-FEB-2010 02:14:25; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 59;41425
 2; -721.4; 01-FEB-2010 02:20:24; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41425
 3; -462.6; 01-FEB-2010 02:24:43; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41425
 4; -378.9; 01-FEB-2010 02:26:07; Dark ; 44.5; 158; 6Pi Sco ; 2.91; 28000;occ; 89; 0;41425
 5; -115.5; 01-FEB-2010 02:30:30; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41425
 6; 18.5; 01-FEB-2010 02:32:44; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41426
 7; 107.6; 01-FEB-2010 02:34:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41426
 8; 195.5; 01-FEB-2010 02:35:41; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41426
 9; 312.2; 01-FEB-2010 02:37:38; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41426
 10; 470.9; 01-FEB-2010 02:40:17; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41426
 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
 15; 1080.4; 01-FEB-2010 02:50:26; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;41426
 16; 1205.4; 01-FEB-2010 02:52:31; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41426
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13; 932.2; 01-FEB-2010 21:14:33; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 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
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 19; 6751.2; 02-FEB-2010 10:35:44; Dark ; 41.0; 159; Ups Car ; 2.92; 7200;occ; 82; 0;41444
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23; 6867.0; 02-FEB-2010 13:58:51; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;41446
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 21; 6647.9; 02-FEB-2010 20:37:36; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41450
 22; 6752.7; 02-FEB-2010 20:39:21; Dark ; 40.0; 159; Ups Car ; 2.92; 7200;occ; 80; 0;41450
 23; 6868.1; 02-FEB-2010 20:41:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41450
 24; 6971.9; 02-FEB-2010 20:43:00; Dark ; 3.5; 46; Del Vel ; 1.95; 10600;occ; 7; 0;41450

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 9; 717.9; 03-FEB-2010 01:41:09; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41454
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 23; 4935.1; 03-FEB-2010 02:51:27; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41454
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 27; 6081.3; 03-FEB-2010 03:10:33; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41454
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 31; 6522.3; 03-FEB-2010 03:17:54; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41454
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 33; 6754.3; 03-FEB-2010 03:21:46; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;41454
 34; 6869.4; 03-FEB-2010 03:23:41; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41454
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 8; 4086.4; 03-FEB-2010 17:42:41; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;41463
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13; 5601.1; 03-FEB-2010 18:07:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;41463
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 5; 3603.7; 03-FEB-2010 19:15:15; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;41464
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 9; 4809.6; 03-FEB-2010 19:35:20; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41464
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 19; 6757.2; 03-FEB-2010 20:07:48; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41464
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 21; 4810.7; 04-FEB-2010 02:17:45; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;41468
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 7; 292.8; 04-FEB-2010 02:43:03; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41469
 8; 493.8; 04-FEB-2010 02:46:24; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41469
 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
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18; 3428.4; 04-FEB-2010 03:35:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;41469
19; 3602.2; 04-FEB-2010 03:38:12; Bright; 19.5; 60; 7Bet UMi ; 2.08; 3950;occ; 39; 0;41469
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 3; -1950.0; 04-FEB-2010 03:46:16; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;41469
 4; -1725.4; 04-FEB-2010 03:50:01; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41469
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11; 626.7; 04-FEB-2010 04:29:13; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41470
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13; 941.5; 04-FEB-2010 04:34:28; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41470
14; 1095.2; 04-FEB-2010 04:37:01; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41470
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 4; -1095.2; 04-FEB-2010 05:41:07; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41470
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11; 723.4; 04-FEB-2010 06:11:26; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;41471
12; 838.0; 04-FEB-2010 06:13:20; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41471
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 4; 840.8; 04-FEB-2010 21:18:46; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41480
 5; 943.8; 04-FEB-2010 21:20:29; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41480
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 9; 3599.4; 04-FEB-2010 22:04:45; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41480
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11; 4085.3; 04-FEB-2010 22:12:51; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41480
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 5; 146.9; 04-FEB-2010 22:47:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41481
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 8; 943.9; 04-FEB-2010 23:01:05; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41481
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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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 6; 4085.8; 04-FEB-2010 08:48:04; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41472
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11; 6759.5; 04-FEB-2010 09:32:38; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41472
12; 6874.4; 04-FEB-2010 09:34:33; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41472
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
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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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14; 5624.1; 05-FEB-2010 18:45:41; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;41492
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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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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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9; 311.3; 06-FEB-2010 05:01:19; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41499
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13; 948.9; 06-FEB-2010 05:11:57; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41499
14; 1104.7; 06-FEB-2010 05:14:33; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41499
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6; -642.9; 10-FEB-2010 06:00:08; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;41556
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13; 690.3; 10-FEB-2010 06:22:21; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;41557
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13; 1132.8; 12-FEB-2010 23:53:05; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;41596
14; 1738.9; 13-FEB-2010 00:03:11; Dark ; 51.0; 48; 30Alp Hya ; 1.98; 4100;occ; 102; 0;41596
15; 2385.4; 13-FEB-2010 00:13:57; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;41596
16; 3429.9; 13-FEB-2010 00:31:22; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;41596
17; 3567.1; 13-FEB-2010 00:33:39; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41596
18; 3858.0; 13-FEB-2010 00:38:30; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;41596
19; 4077.7; 13-FEB-2010 00:42:10; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41596
20; 4187.6; 13-FEB-2010 00:44:00; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;41596
21; 4325.4; 13-FEB-2010 00:46:17; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41596
22; 4736.1; 13-FEB-2010 00:53:08; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;41596
23; 4857.8; 13-FEB-2010 00:55:10; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;41596
24; 4992.6; 13-FEB-2010 00:57:25; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;41596
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2; 365.9; 12-FEB-2010 10:15:31; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41588
3; 556.0; 12-FEB-2010 10:18:41; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41588
4; 642.5; 12-FEB-2010 10:20:07; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41588
5; 931.7; 12-FEB-2010 10:24:56; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;41588
6; 1130.6; 12-FEB-2010 10:28:15; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41588
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3; 2385.4; 12-FEB-2010 10:49:10; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41588
4; 3430.0; 12-FEB-2010 11:06:35; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;41588
5; 3860.2; 12-FEB-2010 11:13:45; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41588
6; 4078.7; 12-FEB-2010 11:17:23; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41588
7; 4324.3; 12-FEB-2010 11:21:29; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41588
8; 4734.6; 12-FEB-2010 11:28:19; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66; 0;41588
9; 4854.7; 12-FEB-2010 11:30:19; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;41588
10; 4988.6; 12-FEB-2010 11:32:33; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;41588
11; 5416.7; 12-FEB-2010 11:39:41; Dark ; 51.5; 86; 35Eta Oph ; 2.43; 10200;occ; 103; 0;41588
12; 5568.0; 12-FEB-2010 11:42:13; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41588

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 14; 5767.1; 12-FEB-2010 11:45:32; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;41588
 15; 5875.2; 12-FEB-2010 11:47:20; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;41588
 16; 5963.6; 12-FEB-2010 11:48:48; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;41588
 17; 6067.8; 12-FEB-2010 11:50:32; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41588
 18; 6263.1; 12-FEB-2010 11:53:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41588
 19; 6402.5; 12-FEB-2010 11:56:07; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41588
 20; 6591.8; 12-FEB-2010 11:59:16; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;41588
 21; 6679.0; 12-FEB-2010 12:00:44; Dark ; 57.5; 64; Gam Cen ; 2.20; 10600;occ; 115; 0;41588
 22; 6967.9; 12-FEB-2010 12:05:33; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41588
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 4; 2385.4; 12-FEB-2010 12:29:46; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41589
 5; 3430.1; 12-FEB-2010 12:47:11; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41589
 6; 3568.9; 12-FEB-2010 12:49:29; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41589
 7; 3860.0; 12-FEB-2010 12:54:21; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41589
 8; 4078.5; 12-FEB-2010 12:57:59; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41589
 9; 4324.4; 12-FEB-2010 13:02:05; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41589
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 12; 4989.6; 12-FEB-2010 13:13:10; Bright; 48.0; 126; 60Bet Oph ; 2.77; 4250;occ; 96; 0;41589
 13; 5417.5; 12-FEB-2010 13:20:18; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41589
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 15; 5688.6; 12-FEB-2010 13:24:49; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41589
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 17; 5875.2; 12-FEB-2010 13:27:56; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41589
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 19; 6068.8; 12-FEB-2010 13:31:09; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;41589
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 22; 6592.5; 12-FEB-2010 13:39:53; Dark ; 53.0; 12; Alp1Cru ; 0.77; 30000;occ; 106; 0;41589
 23; 6679.8; 12-FEB-2010 13:41:20; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41589
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 25; 7167.2; 12-FEB-2010 13:49:28; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41589
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 9; 4324.7; 12-FEB-2010 14:42:41; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;41590
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 12; 4989.7; 12-FEB-2010 14:53:46; Bright; 46.0; 126; 60Bet Oph ; 2.77; 4250;occ; 92; 0;41590
 13; 5418.5; 12-FEB-2010 15:00:55; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41590
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 19; 6264.8; 12-FEB-2010 15:15:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41590
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 22; 6680.8; 12-FEB-2010 15:21:57; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41590
 23; 6968.3; 12-FEB-2010 15:26:45; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41590
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9; 4735.1; 12-FEB-2010 16:30:07; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;41591
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13; 5569.3; 12-FEB-2010 16:44:02; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;41591
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21; 6968.9; 12-FEB-2010 17:07:21; Dark ; 40.0; 91; Kap Vel ; 2.49; 26000;occ; 80; 0;41591
22; 7167.7; 12-FEB-2010 17:10:40; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;41591

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4; 3430.1; 12-FEB-2010 17:48:58; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41592
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6; 3859.1; 12-FEB-2010 17:56:07; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;41592
7; 4078.2; 12-FEB-2010 17:59:46; Bright; 58.0; 130; 23Bet Dra ; 2.80; 5800;occ; 116; 0;41592
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6; 3858.9; 12-FEB-2010 19:36:43; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41593
7; 4078.0; 12-FEB-2010 19:40:22; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41593
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13; 5769.4; 12-FEB-2010 20:08:34; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;41593
14; 5877.2; 12-FEB-2010 20:10:21; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41593
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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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13; 4326.3; 13-FEB-2010 22:34:05; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41609
14; 4863.6; 13-FEB-2010 22:43:03; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;41609
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 3; 52.9; 13-FEB-2010 23:03:28; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;41610
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3; 397.0; 15-FEB-2010 22:05:57; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;41638
4; 479.0; 15-FEB-2010 22:07:19; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41638
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5; 4192.3; 15-FEB-2010 08:03:50; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;41629
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5; 4192.5; 15-FEB-2010 09:44:26; Bright; 52.0; 144; 18Del Cyg ; 2.86; 11000;occ; 104; 0;41630
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7; 4743.8; 15-FEB-2010 09:53:37; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;41630
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12; 5787.7; 15-FEB-2010 10:11:01; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;41630
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23; 7177.6; 15-FEB-2010 10:34:11; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;41630
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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
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13; 6737.2; 17-FEB-2010 17:46:36; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41663
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3; 4070.3; 17-FEB-2010 18:42:45; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 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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13; 6629.9; 17-FEB-2010 21:06:00; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41665
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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
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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
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3; 4068.4; 18-FEB-2010 11:28:42; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41674
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7; 6109.0; 18-FEB-2010 12:02:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41674
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9; 6455.5; 18-FEB-2010 12:08:29; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41674
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11; 6634.4; 18-FEB-2010 12:11:28; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;41674
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4; 4332.3; 18-FEB-2010 13:13:42; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41675
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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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9; 6457.0; 18-FEB-2010 15:29:43; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41676
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11; 6635.2; 18-FEB-2010 15:32:41; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41676
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3; 4068.3; 18-FEB-2010 16:30:30; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41677
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
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4; 4332.5; 18-FEB-2010 18:15:30; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41678
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3; 422.7; 18-FEB-2010 20:31:32; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41680
4; 511.0; 18-FEB-2010 20:33:01; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41680
5; 600.7; 18-FEB-2010 20:34:30; Dark ; 52.0; 12; Alp1Cru ; 0.77; 30000;occ; 104; 0;41680
6; 713.3; 18-FEB-2010 20:36:23; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41680
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7; 602.1; 19-FEB-2010 01:36:19; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;41683
8; 715.2; 19-FEB-2010 01:38:12; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41683
9; 944.8; 19-FEB-2010 01:42:02; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41683
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3; -1702.7; 19-FEB-2010 04:19:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41684
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9; 514.9; 19-FEB-2010 04:56:04; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41685
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3; 3431.5; 19-FEB-2010 20:50:04; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41694
4; 3536.8; 19-FEB-2010 20:51:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;41694
5; 4065.5; 19-FEB-2010 21:00:38; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41694
6; 4333.5; 19-FEB-2010 21:05:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41694
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9; 607.9; 19-FEB-2010 21:43:36; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;41695
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5; 79.4; 19-FEB-2010 06:29:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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5; 4757.5; 19-FEB-2010 09:27:59; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;41687
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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
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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
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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
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 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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 11; 6555.6; 19-FEB-2010 14:59:44; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41690
 12; 6757.0; 19-FEB-2010 15:03:06; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41690
 13; 6984.1; 19-FEB-2010 15:06:53; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;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
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 5; 4758.3; 19-FEB-2010 16:10:23; Bright; 52.5; 168; 17Zet Aql ; 2.99; 11000;occ; 105; 0;41691
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 7; 5836.4; 19-FEB-2010 16:28:21; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41691
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 9; 6244.5; 19-FEB-2010 16:35:09; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;41691
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 12; 6642.3; 19-FEB-2010 16:41:47; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41691
 13; 6757.9; 19-FEB-2010 16:43:42; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41691
 14; 6984.8; 19-FEB-2010 16:47:29; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 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
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 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
 14; 6119.0; 19-FEB-2010 18:13:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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 3; 3431.5; 19-FEB-2010 19:09:28; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41693
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 7; 4758.7; 19-FEB-2010 19:31:35; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41693
 8; 5334.5; 19-FEB-2010 19:41:11; Dark ; 42.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 85; 0;41693
 9; 5436.4; 19-FEB-2010 19:42:53; Dark ; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;41693
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 11; 5838.3; 19-FEB-2010 19:49:35; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 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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 15; 6467.3; 19-FEB-2010 20:00:04; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41693
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3; 3532.9; 20-FEB-2010 16:58:56; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41706
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4; 3522.9; 22-FEB-2010 20:57:20; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41737
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6; 4336.9; 22-FEB-2010 21:10:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41737
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