

# GOMOS Daily Report 20-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](#)

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	22FEB2010 11:37:19
Data source version	GOMOS/5.00L04
Start time of products	20FEB2010 09:23:36
Stop time of products	20FEB2010 17:19:26
Store outputs in DB	Yes
Nb of level 1b prods	29
Nb of prods with errors	0

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

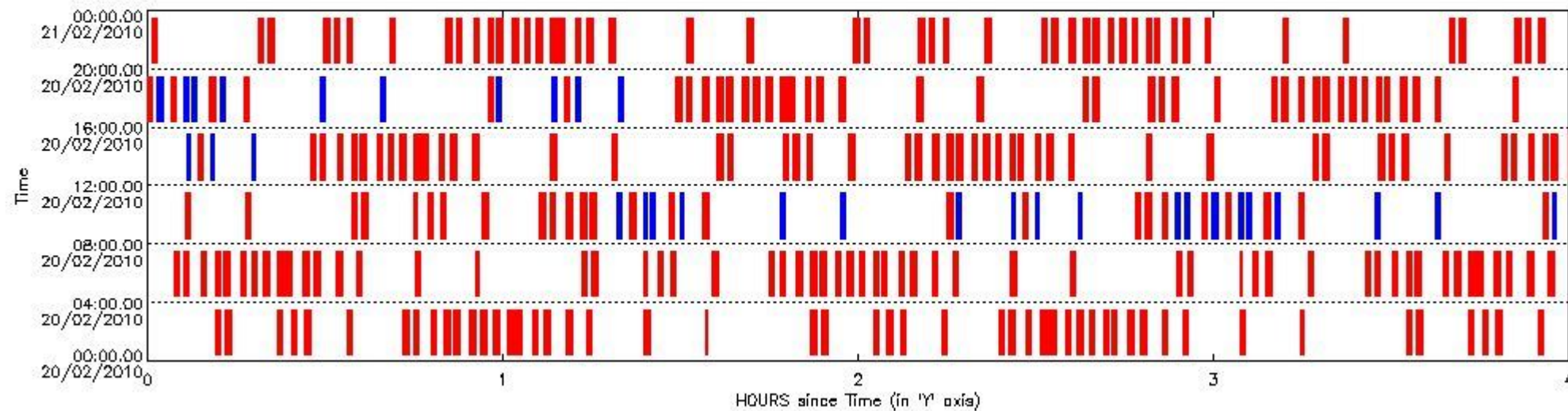
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
20-FEB-2010 00:11:24	1AlpUMi	49	41696
20-FEB-2010 00:13:08	7BetUMi	60	41696
20-FEB-2010 00:21:57	23BetDra	130	41696
20-FEB-2010 00:24:13	18DelCyg	144	41696
20-FEB-2010 00:26:26	3AlpLyr	5	41696
20-FEB-2010 00:33:32	17ZetAql	168	41696
20-FEB-2010 00:43:07	41PiSgr	155	41696
20-FEB-2010 00:44:50	34SigSgr	57	41696
20-FEB-2010 00:47:42	20EpsSgr	38	41696
20-FEB-2010 00:50:04	35LamSco	25	41696
20-FEB-2010 00:51:33	26EpsSco	75	41696
20-FEB-2010 00:54:21	BetAra	141	41696
20-FEB-2010 00:56:13	DSA1025	0	41697
20-FEB-2010 00:58:19	BetTrA	134	41697
20-FEB-2010 01:00:42	Alp1Cen	4	41697

20-FEB-2010 01:02:01	BetCen	10	41697
20-FEB-2010 01:04:57	Alp1Cru	12	41697
20-FEB-2010 01:06:53	GamCen	64	41697
20-FEB-2010 01:10:39	MuVel	113	41697
20-FEB-2010 01:14:06	LamVel	65	41697
20-FEB-2010 01:23:51	30AlpHya	48	41697
20-FEB-2010 01:34:06	17EpsLeo	166	41697
20-FEB-2010 01:52:00	1AlpUMi	49	41697
20-FEB-2010 01:53:44	7BetUMi	60	41697
20-FEB-2010 02:02:33	23BetDra	130	41697
20-FEB-2010 02:04:49	18DelCyg	144	41697
20-FEB-2010 02:07:02	3AlpLyr	5	41697
20-FEB-2010 02:14:08	17ZetAql	168	41697
20-FEB-2010 02:23:44	41PiSgr	155	41697
20-FEB-2010 02:25:26	34SigSgr	57	41697
20-FEB-2010 02:28:19	20EpsSgr	38	41697
20-FEB-2010 02:30:41	35LamSco	25	41697
20-FEB-2010 02:32:10	26EpsSco	75	41697
20-FEB-2010 02:34:57	BetAra	141	41697
20-FEB-2010 02:36:50	DSA1025	0	41698
20-FEB-2010 02:38:55	BetTrA	134	41698
20-FEB-2010 02:41:18	Alp1Cen	4	41698
20-FEB-2010 02:42:38	BetCen	10	41698
20-FEB-2010 02:45:33	Alp1Cru	12	41698
20-FEB-2010 02:47:30	GamCen	64	41698
20-FEB-2010 02:51:15	MuVel	113	41698
20-FEB-2010 02:54:42	LamVel	65	41698
20-FEB-2010 03:04:27	30AlpHya	48	41698
20-FEB-2010 03:14:41	17EpsLeo	166	41698
20-FEB-2010 03:32:36	1AlpUMi	49	41698
20-FEB-2010 03:34:19	7BetUMi	60	41698
20-FEB-2010 03:43:09	23BetDra	130	41698
20-FEB-2010 03:45:25	18DelCyg	144	41698
20-FEB-2010 03:47:38	3AlpLyr	5	41698
20-FEB-2010 03:54:44	17ZetAql	168	41698
20-FEB-2010 04:04:20	41PiSgr	155	41698
20-FEB-2010 04:06:02	34SigSgr	57	41698
20-FEB-2010 04:08:55	20EpsSgr	38	41698
20-FEB-2010 04:11:18	35LamSco	25	41698
20-FEB-2010 04:12:47	26EpsSco	75	41698
20-FEB-2010 04:15:34	BetAra	141	41698
20-FEB-2010 04:17:26	DSA1025	0	41699
20-FEB-2010 04:19:32	BetTrA	134	41699
20-FEB-2010 04:21:55	Alp1Cen	4	41699
20-FEB-2010 04:23:14	BetCen	10	41699
20-FEB-2010 04:26:10	Alp1Cru	12	41699
20-FEB-2010 04:28:07	GamCen	64	41699
20-FEB-2010 04:31:51	MuVel	113	41699
20-FEB-2010 04:35:18	LamVel	65	41699
20-FEB-2010 04:45:03	30AlpHya	48	41699
20-FEB-2010 04:55:17	17EpsLeo	166	41699
20-FEB-2010 05:13:12	1AlpUMi	49	41699
20-FEB-2010 05:14:55	7BetUMi	60	41699
20-FEB-2010 05:23:45	23BetDra	130	41699
20-FEB-2010 05:26:01	18DelCyg	144	41699
20-FEB-2010 05:28:14	3AlpLyr	5	41699
20-FEB-2010 05:35:20	17ZetAql	168	41699
20-FEB-2010 05:44:56	41PiSgr	155	41699
20-FEB-2010 05:46:39	34SigSgr	57	41699

20-FEB-2010 05:49:31	20EpsSgr	38	41699
20-FEB-2010 05:51:54	35LamSco	25	41699
20-FEB-2010 05:53:24	26EpsSco	75	41699
20-FEB-2010 05:56:10	BetAra	141	41699
20-FEB-2010 05:58:03	DSA1025	0	41700
20-FEB-2010 06:00:08	BetTrA	134	41700
20-FEB-2010 06:02:31	Alp1Cen	4	41700
20-FEB-2010 06:03:51	BetCen	10	41700
20-FEB-2010 06:06:46	Alp1Cru	12	41700
20-FEB-2010 06:08:43	GamCen	64	41700
20-FEB-2010 06:12:28	MuVel	113	41700
20-FEB-2010 06:15:54	LamVel	65	41700
20-FEB-2010 06:25:39	30AlpHya	48	41700
20-FEB-2010 06:35:52	17EpsLeo	166	41700
20-FEB-2010 06:53:47	1AlpUMi	49	41700
20-FEB-2010 06:55:31	7BetUMi	60	41700
20-FEB-2010 07:04:20	23BetDra	130	41700
20-FEB-2010 07:06:37	18DelCyg	144	41700
20-FEB-2010 07:08:50	3AlpLyr	5	41700
20-FEB-2010 07:15:56	17ZetAql	168	41700
20-FEB-2010 07:25:32	41PiSgr	155	41700
20-FEB-2010 07:27:15	34SigSgr	57	41700
20-FEB-2010 07:30:08	20EpsSgr	38	41700
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20-FEB-2010 07:44:27	BetCen	10	41701
20-FEB-2010 07:47:22	Alp1Cru	12	41701
20-FEB-2010 07:49:20	GamCen	64	41701
20-FEB-2010 07:53:04	MuVel	113	41701
20-FEB-2010 07:56:30	LamVel	65	41701
20-FEB-2010 08:06:15	30AlpHya	48	41701
20-FEB-2010 08:16:28	17EpsLeo	166	41701
20-FEB-2010 08:34:23	1AlpUMi	49	41701
20-FEB-2010 08:36:06	7BetUMi	60	41701
20-FEB-2010 08:44:56	23BetDra	130	41701
20-FEB-2010 08:47:13	18DelCyg	144	41701
20-FEB-2010 08:49:26	3AlpLyr	5	41701
20-FEB-2010 08:56:33	17ZetAql	168	41701
20-FEB-2010 09:06:09	41PiSgr	155	41701
20-FEB-2010 09:07:51	34SigSgr	57	41701
20-FEB-2010 09:10:44	20EpsSgr	38	41701
20-FEB-2010 09:13:07	35LamSco	25	41701
20-FEB-2010 09:14:38	26EpsSco	75	41701
20-FEB-2010 09:21:21	BetTrA	134	41702
20-FEB-2010 09:27:59	Alp1Cru	12	41702
20-FEB-2010 09:33:40	MuVel	113	41702
20-FEB-2010 10:14:59	1AlpUMi	49	41702
20-FEB-2010 10:27:49	18DelCyg	144	41702
20-FEB-2010 10:46:45	41PiSgr	155	41702
20-FEB-2010 10:48:27	34SigSgr	57	41702
20-FEB-2010 10:51:21	20EpsSgr	38	41702
20-FEB-2010 10:57:59	BetAra	141	41702
20-FEB-2010 11:01:58	BetTrA	134	41703
20-FEB-2010 11:08:35	Alp1Cru	12	41703
20-FEB-2010 11:14:17	MuVel	113	41703
20-FEB-2010 11:55:35	1AlpUMi	49	41703

20-FEB-2010 12:08:25	18DelCyg	144	41703
20-FEB-2010 12:27:21	41PiSgr	155	41703
20-FEB-2010 12:29:04	34SigSgr	57	41703
20-FEB-2010 12:31:57	20EpsSgr	38	41703
20-FEB-2010 12:34:21	35LamSco	25	41703
20-FEB-2010 12:35:51	26EpsSco	75	41703
20-FEB-2010 12:38:36	BetAra	141	41703
20-FEB-2010 12:40:28	DSA1025	0	41704
20-FEB-2010 12:42:34	BetTrA	134	41704
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20-FEB-2010 12:46:17	BetCen	10	41704
20-FEB-2010 12:49:12	Alp1Cru	12	41704
20-FEB-2010 12:51:10	GamCen	64	41704
20-FEB-2010 12:54:53	MuVel	113	41704
20-FEB-2010 13:08:03	30AlpHya	48	41704
20-FEB-2010 13:18:15	17EpsLeo	166	41704
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20-FEB-2010 13:37:53	7BetUMi	60	41704
20-FEB-2010 13:47:12	33GamDra	69	41704
20-FEB-2010 13:49:01	18DelCyg	144	41704
20-FEB-2010 13:51:14	3AlpLyr	5	41704
20-FEB-2010 13:58:21	17ZetAql	168	41704
20-FEB-2010 14:07:57	41PiSgr	155	41704
20-FEB-2010 14:09:40	34SigSgr	57	41704
20-FEB-2010 14:12:33	20EpsSgr	38	41704
20-FEB-2010 14:14:57	35LamSco	25	41704
20-FEB-2010 14:16:28	26EpsSco	75	41704
20-FEB-2010 14:19:12	BetAra	141	41704
20-FEB-2010 14:21:05	DSA1025	0	41705
20-FEB-2010 14:23:10	BetTrA	134	41705
20-FEB-2010 14:25:34	Alp1Cen	4	41705
20-FEB-2010 14:26:54	BetCen	10	41705
20-FEB-2010 14:29:48	Alp1Cru	12	41705
20-FEB-2010 14:31:47	GamCen	64	41705
20-FEB-2010 14:35:29	MuVel	113	41705
20-FEB-2010 14:48:39	30AlpHya	48	41705
20-FEB-2010 14:58:50	17EpsLeo	166	41705
20-FEB-2010 15:16:47	1AlpUMi	49	41705
20-FEB-2010 15:18:29	7BetUMi	60	41705
20-FEB-2010 15:27:48	33GamDra	69	41705
20-FEB-2010 15:29:37	18DelCyg	144	41705
20-FEB-2010 15:31:50	3AlpLyr	5	41705
20-FEB-2010 15:38:57	17ZetAql	168	41705
20-FEB-2010 15:48:34	41PiSgr	155	41705
20-FEB-2010 15:50:16	34SigSgr	57	41705
20-FEB-2010 15:53:10	20EpsSgr	38	41705
20-FEB-2010 15:55:34	35LamSco	25	41705
20-FEB-2010 15:57:05	26EpsSco	75	41705
20-FEB-2010 15:59:49	BetAra	141	41705
20-FEB-2010 16:03:47	BetTrA	134	41706
20-FEB-2010 16:10:24	Alp1Cru	12	41706
20-FEB-2010 16:16:06	MuVel	113	41706
20-FEB-2010 16:57:23	1AlpUMi	49	41706
20-FEB-2010 17:10:13	18DelCyg	144	41706
20-FEB-2010 17:29:10	41PiSgr	155	41706
20-FEB-2010 17:30:53	34SigSgr	57	41706
20-FEB-2010 17:33:46	20EpsSgr	38	41706
20-FEB-2010 17:36:10	35LamSco	25	41706
20-FEB-2010 17:37:42	26EpsSco	75	41706

20-FEB-2010 17:40:25	BetAra	141	41706
20-FEB-2010 17:42:18	DSA1025	0	41707
20-FEB-2010 17:44:23	BetTrA	134	41707
20-FEB-2010 17:46:47	Alp1Cen	4	41707
20-FEB-2010 17:48:07	BetCen	10	41707
20-FEB-2010 17:51:01	Alp1Cru	12	41707
20-FEB-2010 17:53:00	GamCen	64	41707
20-FEB-2010 17:56:42	MuVel	113	41707
20-FEB-2010 18:09:51	30AlpHya	48	41707
20-FEB-2010 18:20:01	17EpsLeo	166	41707
20-FEB-2010 18:37:59	1AlpUMi	49	41707
20-FEB-2010 18:39:40	7BetUMi	60	41707
20-FEB-2010 18:48:59	33GamDra	69	41707
20-FEB-2010 18:50:49	18DelCyg	144	41707
20-FEB-2010 18:53:02	3AlpLyr	5	41707
20-FEB-2010 19:00:10	17ZetAql	168	41707
20-FEB-2010 19:09:46	41PiSgr	155	41707
20-FEB-2010 19:11:29	34SigSgr	57	41707
20-FEB-2010 19:14:23	20EpsSgr	38	41707
20-FEB-2010 19:16:47	35LamSco	25	41707
20-FEB-2010 19:18:19	26EpsSco	75	41707
20-FEB-2010 19:21:01	BetAra	141	41707
20-FEB-2010 19:22:54	DSA1025	0	41708
20-FEB-2010 19:25:00	BetTrA	134	41708
20-FEB-2010 19:27:23	Alp1Cen	4	41708
20-FEB-2010 19:28:43	BetCen	10	41708
20-FEB-2010 19:31:37	Alp1Cru	12	41708
20-FEB-2010 19:33:37	GamCen	64	41708
20-FEB-2010 19:37:18	MuVel	113	41708
20-FEB-2010 19:50:27	30AlpHya	48	41708
20-FEB-2010 20:00:37	17EpsLeo	166	41708
20-FEB-2010 20:18:35	1AlpUMi	49	41708
20-FEB-2010 20:20:16	7BetUMi	60	41708
20-FEB-2010 20:29:35	33GamDra	69	41708
20-FEB-2010 20:31:25	18DelCyg	144	41708
20-FEB-2010 20:33:38	3AlpLyr	5	41708
20-FEB-2010 20:40:46	17ZetAql	168	41708
20-FEB-2010 20:50:22	41PiSgr	155	41708
20-FEB-2010 20:52:05	34SigSgr	57	41708
20-FEB-2010 20:54:59	20EpsSgr	38	41708
20-FEB-2010 20:57:24	35LamSco	25	41708
20-FEB-2010 20:58:56	26EpsSco	75	41708
20-FEB-2010 21:01:38	BetAra	141	41708
20-FEB-2010 21:03:31	DSA1025	0	41709
20-FEB-2010 21:05:36	BetTrA	134	41709
20-FEB-2010 21:08:00	Alp1Cen	4	41709
20-FEB-2010 21:09:20	BetCen	10	41709
20-FEB-2010 21:12:14	Alp1Cru	12	41709
20-FEB-2010 21:14:13	GamCen	64	41709
20-FEB-2010 21:17:55	MuVel	113	41709
20-FEB-2010 21:31:03	30AlpHya	48	41709
20-FEB-2010 21:41:13	17EpsLeo	166	41709
20-FEB-2010 21:59:11	1AlpUMi	49	41709
20-FEB-2010 22:00:51	7BetUMi	60	41709
20-FEB-2010 22:10:11	33GamDra	69	41709
20-FEB-2010 22:12:01	18DelCyg	144	41709
20-FEB-2010 22:14:14	3AlpLyr	5	41709
20-FEB-2010 22:21:22	17ZetAql	168	41709
20-FEB-2010 22:30:59	41PiSgr	155	41709

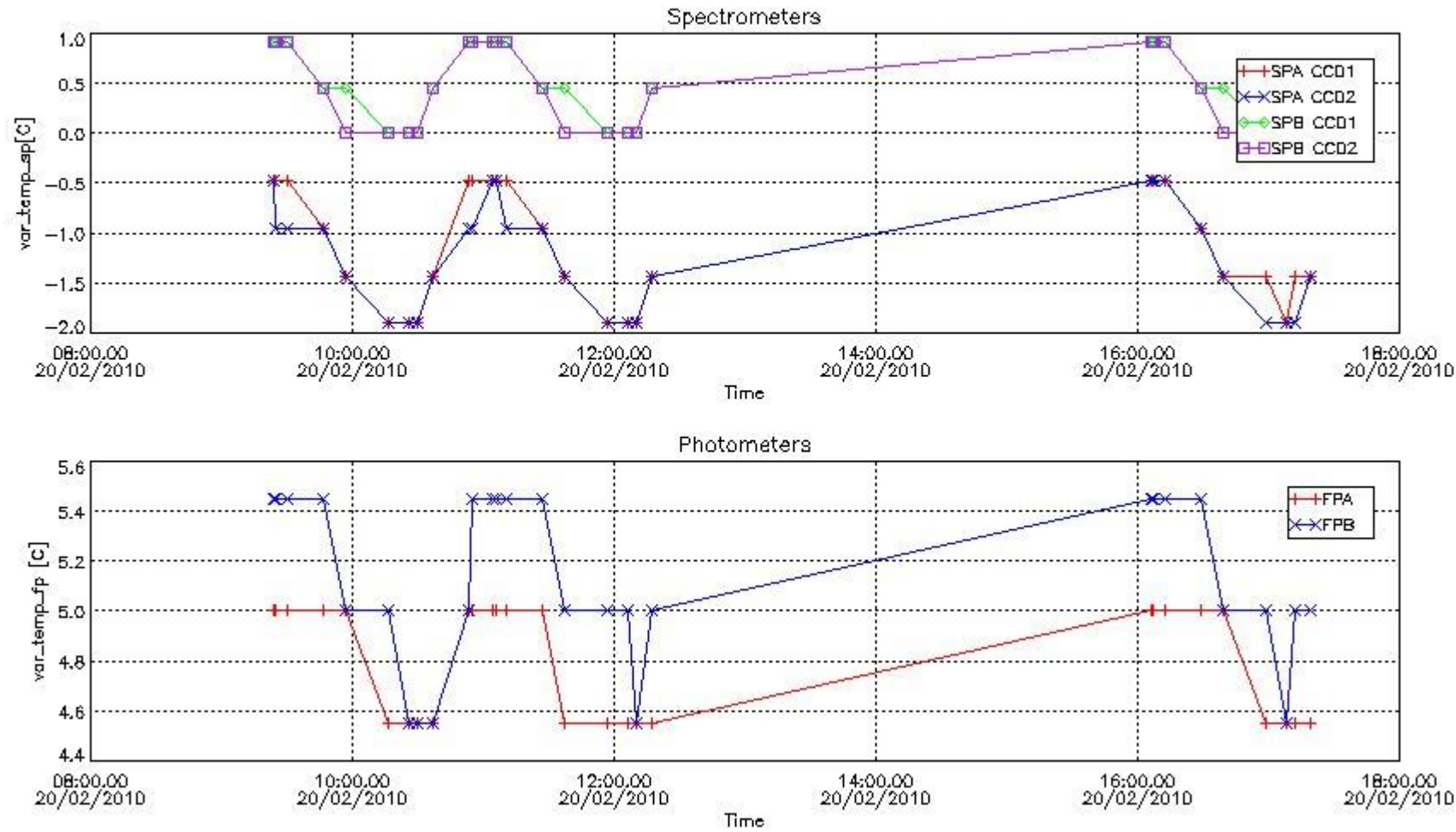


20-FEB-2010 22:32:41	34SigSgr	57	41709
20-FEB-2010 22:35:35	20EpsSgr	38	41709
20-FEB-2010 22:38:00	35LamSco	25	41709
20-FEB-2010 22:39:32	26EpsSco	75	41709
20-FEB-2010 22:42:14	BetAra	141	41709
20-FEB-2010 22:44:07	DSA1025	0	41710
20-FEB-2010 22:46:12	BetTrA	134	41710
20-FEB-2010 22:48:36	Alp1Cen	4	41710
20-FEB-2010 22:49:56	BetCen	10	41710
20-FEB-2010 22:52:50	Alp1Cru	12	41710
20-FEB-2010 22:54:50	GamCen	64	41710
20-FEB-2010 22:58:31	MuVel	113	41710
20-FEB-2010 23:11:39	30AlpHya	48	41710
20-FEB-2010 23:21:48	17EpsLeo	166	41710
20-FEB-2010 23:39:47	1AlpUMi	49	41710
20-FEB-2010 23:41:27	7BetUMi	60	41710
20-FEB-2010 23:50:47	33GamDra	69	41710
20-FEB-2010 23:52:37	18DelCyg	144	41710
20-FEB-2010 23:54:50	3AlpLyr	5	41710

### 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_1PNPDK20100220_092336_000000442087_00065_41702_9766.N1	20-FEB-2010 09:23:36	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	41702	No
2	GOM_TRA_1PNPDK20100220_092456_000000452087_00065_41702_9767.N1	20-FEB-2010 09:24:56	Dark	44.500	10	Bet Cen	0.61000	28000.	89	41702	No
3	GOM_TRA_1PNPDK20100220_092949_000000452087_00065_41702_9768.N1	20-FEB-2010 09:29:49	Dark	44.500	64	Gam Cen	2.2000	10600.	89	41702	No
4	GOM_TRA_1PNPDK20100220_094643_000000462087_00065_41702_9793.N1	20-FEB-2010 09:46:43	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	41702	No
5	GOM_TRA_1PNPDK20100220_095656_000000442087_00065_41702_9794.N1	20-FEB-2010 09:56:56	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	41702	No
6	GOM_TRA_1PNPDK20100220_101634_000000432087_00065_41702_9795.N1	20-FEB-2010 10:16:34	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	41702	No
7	GOM_TRA_1PNPDK20100220_102552_000000382087_00065_41702_9796.N1	20-FEB-2010 10:25:52	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	41702	No
8	GOM_TRA_1PNPDK20100220_102954_000000392087_00065_41702_9797.N1	20-FEB-2010 10:29:54	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	41702	No
9	GOM_TRA_1PNPDK20100220_103701_000000352087_00065_41702_9798.N1	20-FEB-2010 10:37:01	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	41702	No
10	GOM_TRA_1PNPDK20100220_105336_000000452087_00065_41702_9799.N1	20-FEB-2010 10:53:36	Dark	45.000	25	35Lam Sco	1.6200	28000.	90	41702	No
11	GOM_TRA_1PNPDK20100220_105507_000000522087_00065_41702_9800.N1	20-FEB-2010 10:55:07	Dark	51.500	75	26Eps Sco	2.2910	4250.0	103	41702	No
12	GOM_TRA_1PNPDK20100220_110413_000000442087_00066_41703_9801.N1	20-FEB-2010 11:04:13	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	41703	No
13	GOM_TRA_1PNPDK20100220_110533_000000442087_00066_41703_9802.N1	20-FEB-2010 11:05:33	Dark	44.000	10	Bet Cen	0.61000	28000.	88	41703	No
14	GOM_TRA_1PNPDK20100220_111026_000000442087_00066_41703_9803.N1	20-FEB-2010 11:10:26	Dark	44.000	64	Gam Cen	2.2000	10600.	88	41703	No
15	GOM_TRA_1PNPDK20100220_112719_000000482087_00066_41703_9818.N1	20-FEB-2010 11:27:19	Twilight	47.500	48	30Alp Hya	1.9770	4100.0	95	41703	No
16	GOM_TRA_1PNPDK20100220_113731_000000432087_00066_41703_9819.N1	20-FEB-2010 11:37:31	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41703	No
17	GOM_TRA_1PNPDK20100220_115710_000000412087_00066_41703_9820.N1	20-FEB-2010 11:57:10	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41703	No
18	GOM_TRA_1PNPDK20100220_120628_000000432087_00066_41703_9821.N1	20-FEB-2010 12:06:28	Bright	42.500	69	33Gam Dra	2.2310	3800.0	85	41703	No
19	GOM_TRA_1PNPDK20100220_121030_000000412087_00066_41703_9822.N1	20-FEB-2010 12:10:30	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	41703	No
20	GOM_TRA_1PNPDK20100220_121737_000000352087_00066_41703_9823.N1	20-FEB-2010 12:17:37	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	41703	No
21	GOM_TRA_1PNPDK20100220_160602_000000442087_00069_41706_9865.N1	20-FEB-2010 16:06:02	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	41706	No
22	GOM_TRA_1PNPDK20100220_160722_000000462087_00069_41706_9866.N1	20-FEB-2010 16:07:22	Dark	45.500	10	Bet Cen	0.61000	28000.	91	41706	No
23	GOM_TRA_1PNPDK20100220_161216_000000522087_00069_41706_9867.N1	20-FEB-2010 16:12:16	Dark	51.500	64	Gam Cen	2.2000	10600.	103	41706	No
24	GOM_TRA_1PNPDK20100220_162907_000000472087_00069_41706_9883.N1	20-FEB-2010 16:29:07	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	41706	No
25	GOM_TRA_1PNPDK20100220_163918_000000432087_00069_41706_9884.N1	20-FEB-2010 16:39:18	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	41706	No
26	GOM_TRA_1PNPDK20100220_165856_000000422087_00069_41706_9885.N1	20-FEB-2010 16:58:56	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41706	No
27	GOM_TRA_1PNPDK20100220_170815_000000442087_00069_41706_9886.N1	20-FEB-2010 17:08:15	Bright	43.500	69	33Gam Dra	2.2310	3800.0	87	41706	No
28	GOM_TRA_1PNPDK20100220_171218_000000382087_00069_41706_9887.N1	20-FEB-2010 17:12:18	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	41706	No
29	GOM_TRA_1PNPDK20100220_171926_000000542087_00069_41706_9888.N1	20-FEB-2010 17:19:26	Bright	53.500	168	17Zet Aql	2.9860	11000.	107	41706	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).

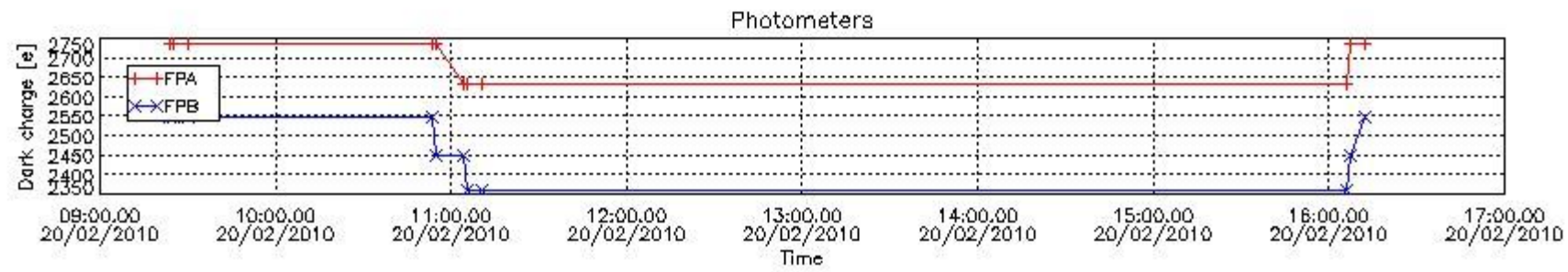
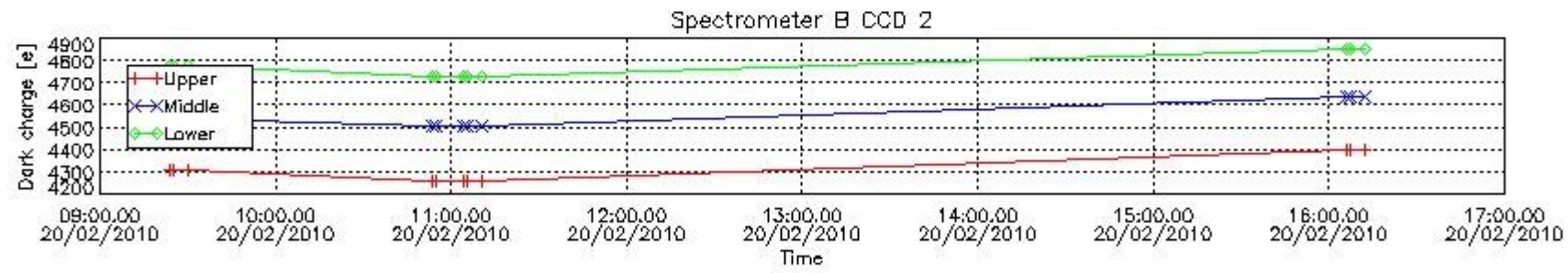
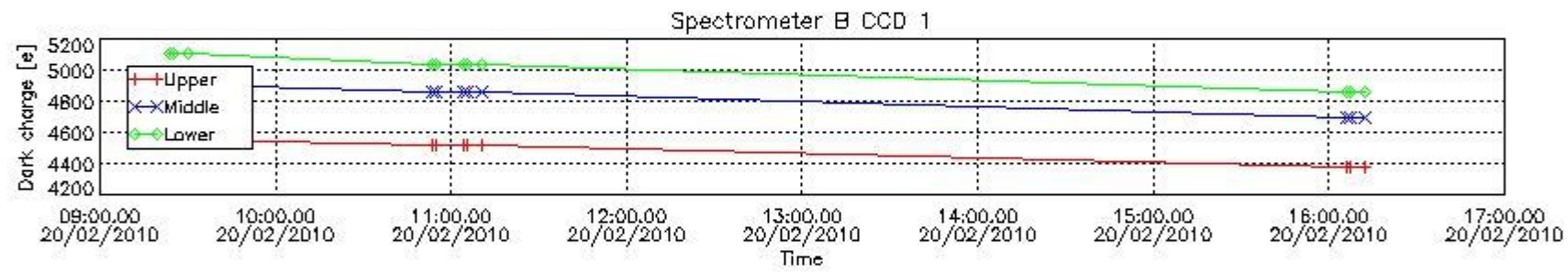
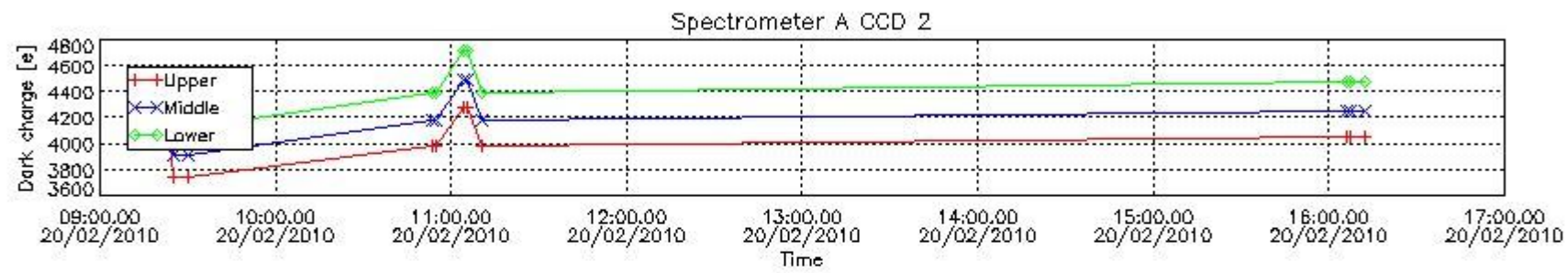
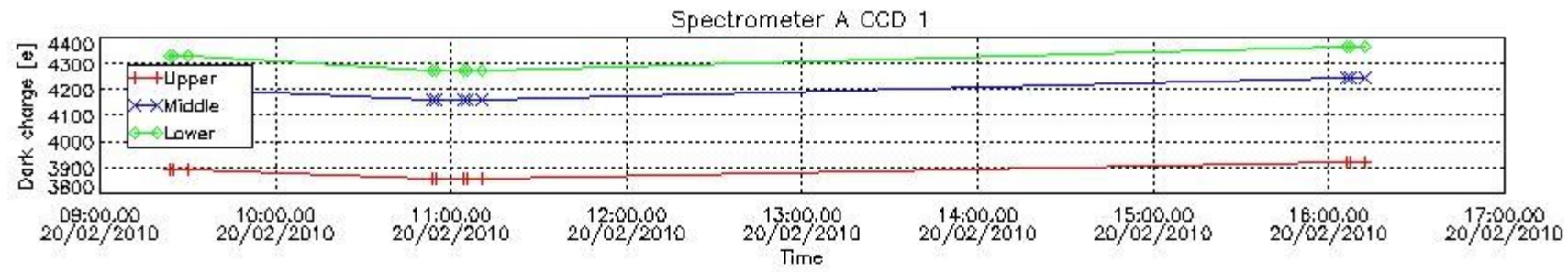
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDK20100220_112719_000000482087_00066_41703_9818.N1	DC map used
GOM_TRA_1PNPDK20100220_113731_000000432087_00066_41703_9819.N1	DC map used
GOM_TRA_1PNPDK20100220_115710_000000412087_00066_41703_9820.N1	DC map used
GOM_TRA_1PNPDK20100220_120628_000000432087_00066_41703_9821.N1	DC map used
GOM_TRA_1PNPDK20100220_121030_000000412087_00066_41703_9822.N1	DC map used
GOM_TRA_1PNPDK20100220_121737_000000352087_00066_41703_9823.N1	DC map used
GOM_TRA_1PNPDK20100220_162907_000000472087_00069_41706_9883.N1	DC map used
GOM_TRA_1PNPDK20100220_163918_000000432087_00069_41706_9884.N1	DC map used
GOM_TRA_1PNPDK20100220_165856_000000422087_00069_41706_9885.N1	DC map used
GOM_TRA_1PNPDK20100220_170815_000000442087_00069_41706_9886.N1	DC map used
GOM_TRA_1PNPDK20100220_171218_000000382087_00069_41706_9887.N1	DC map used
GOM_TRA_1PNPDK20100220_171926_000000542087_00069_41706_9888.N1	DC map used

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





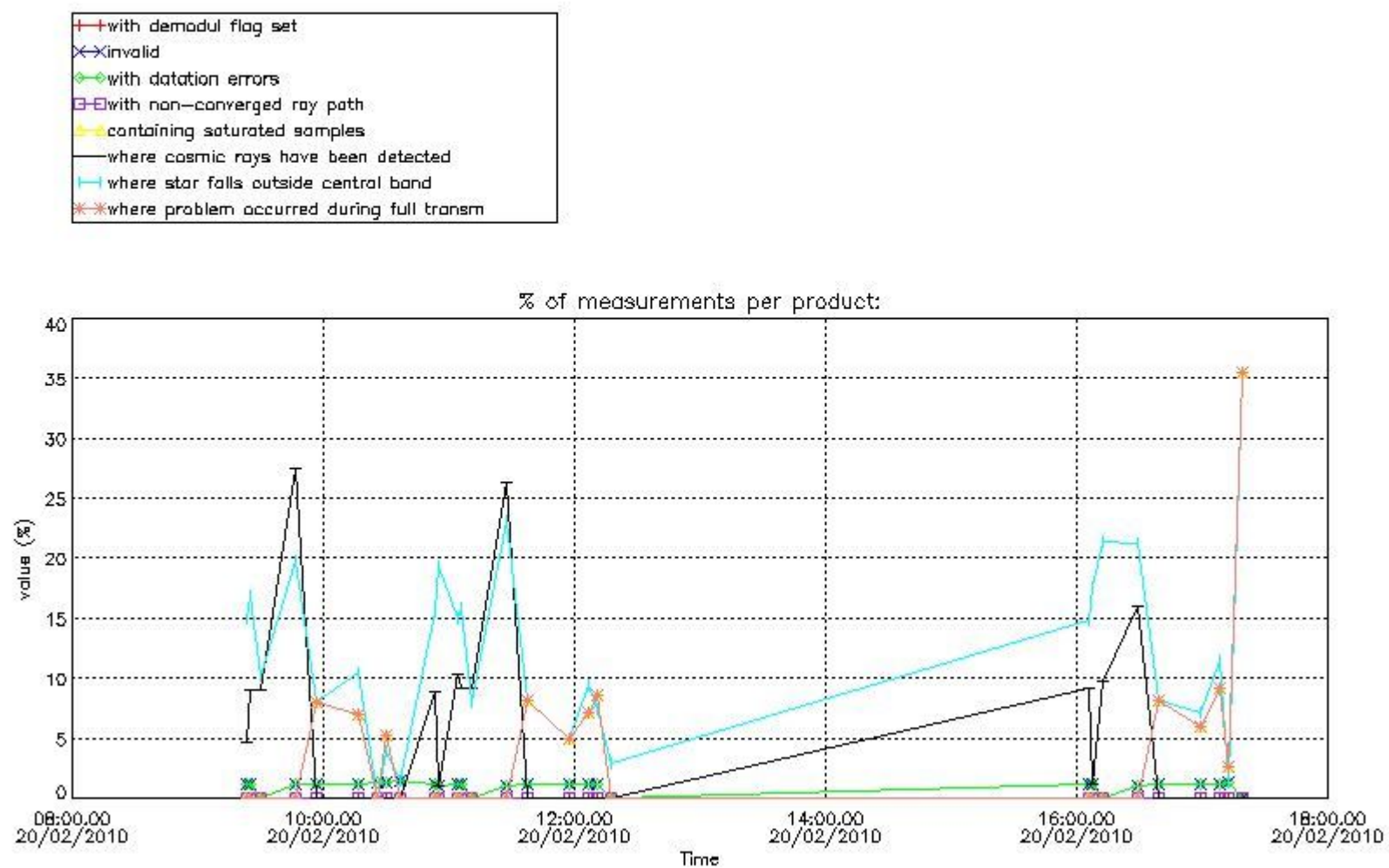
## 5. Demodulation flag and quality information monitoring

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:

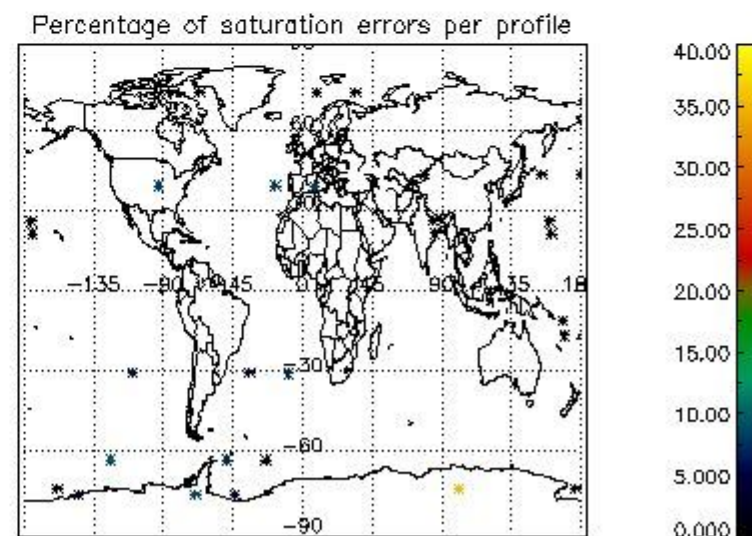
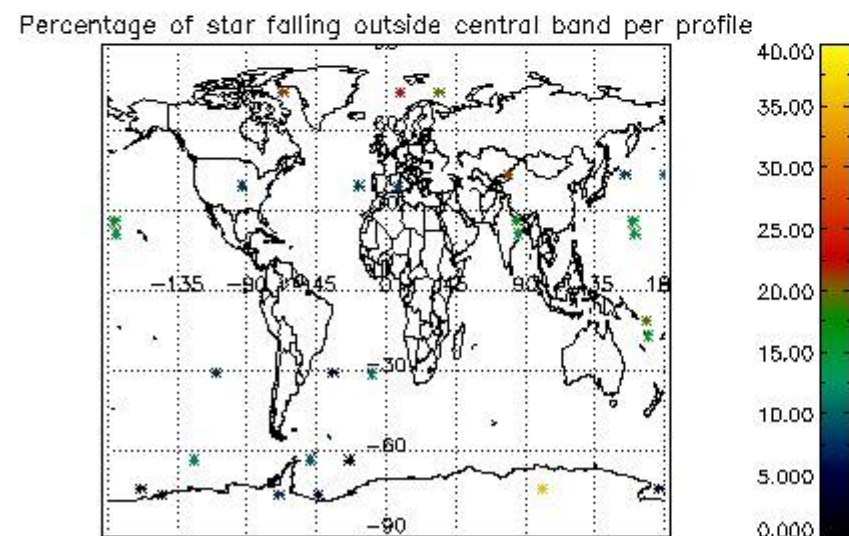
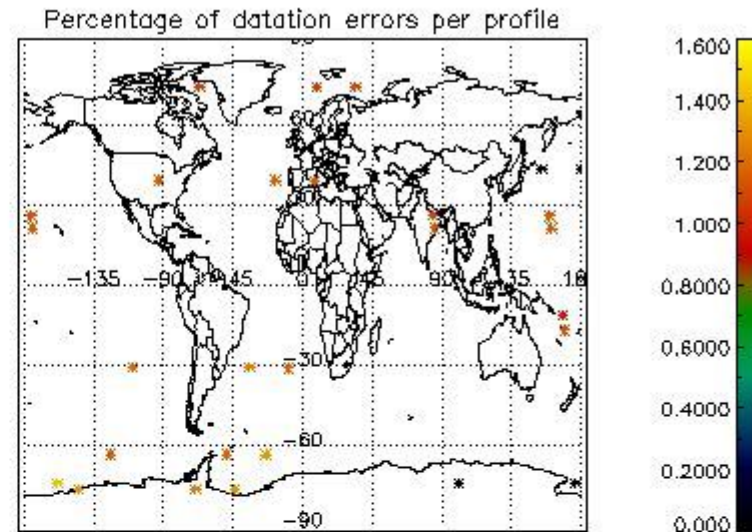
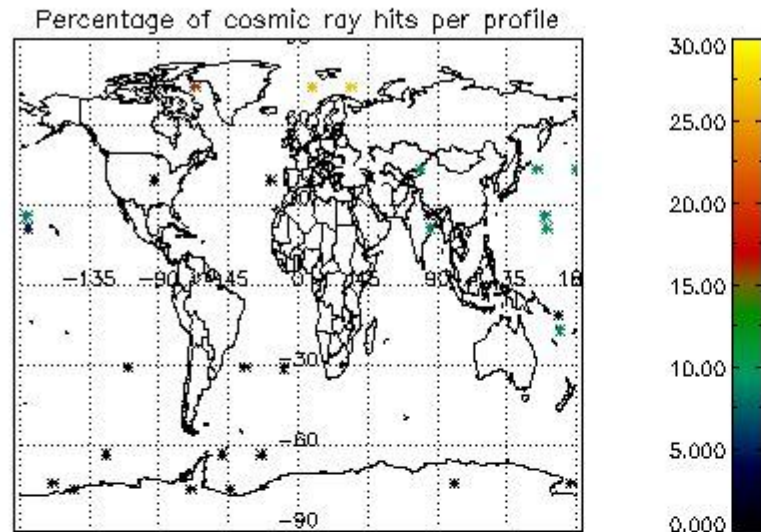
At least one measurement with demodulation flag set:	34.4828 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





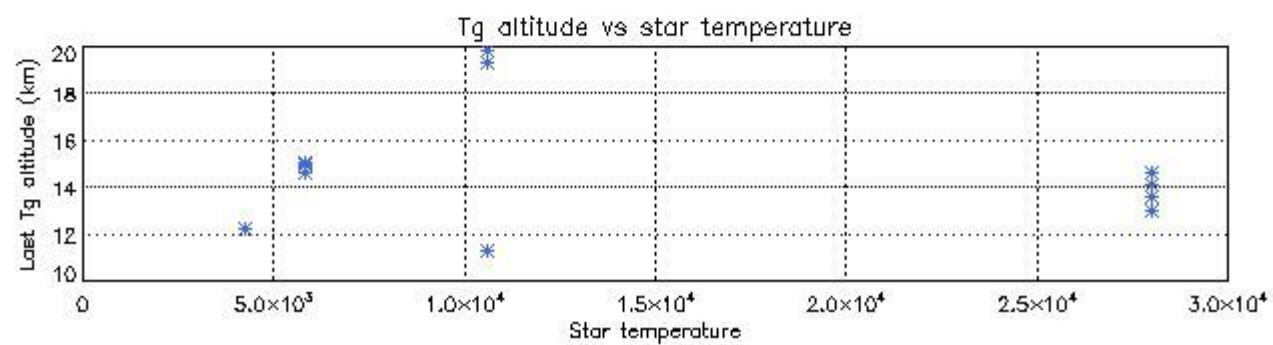
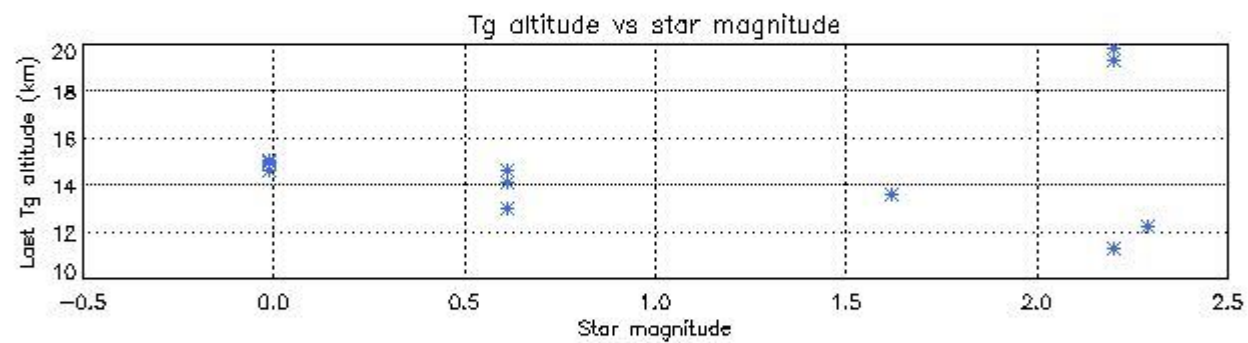
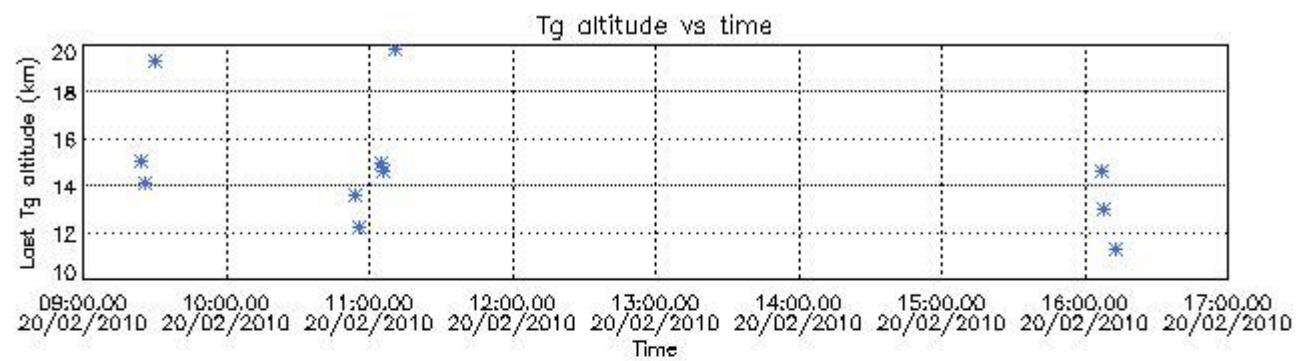
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.785	19.487	NaN
St. deviation:	2.6553	5.1581	NaN
Maximum:	19.834	25.914	NaN
Minimum:	11.261	4.2252	NaN
Number of data:	11.000	15.000	NaN

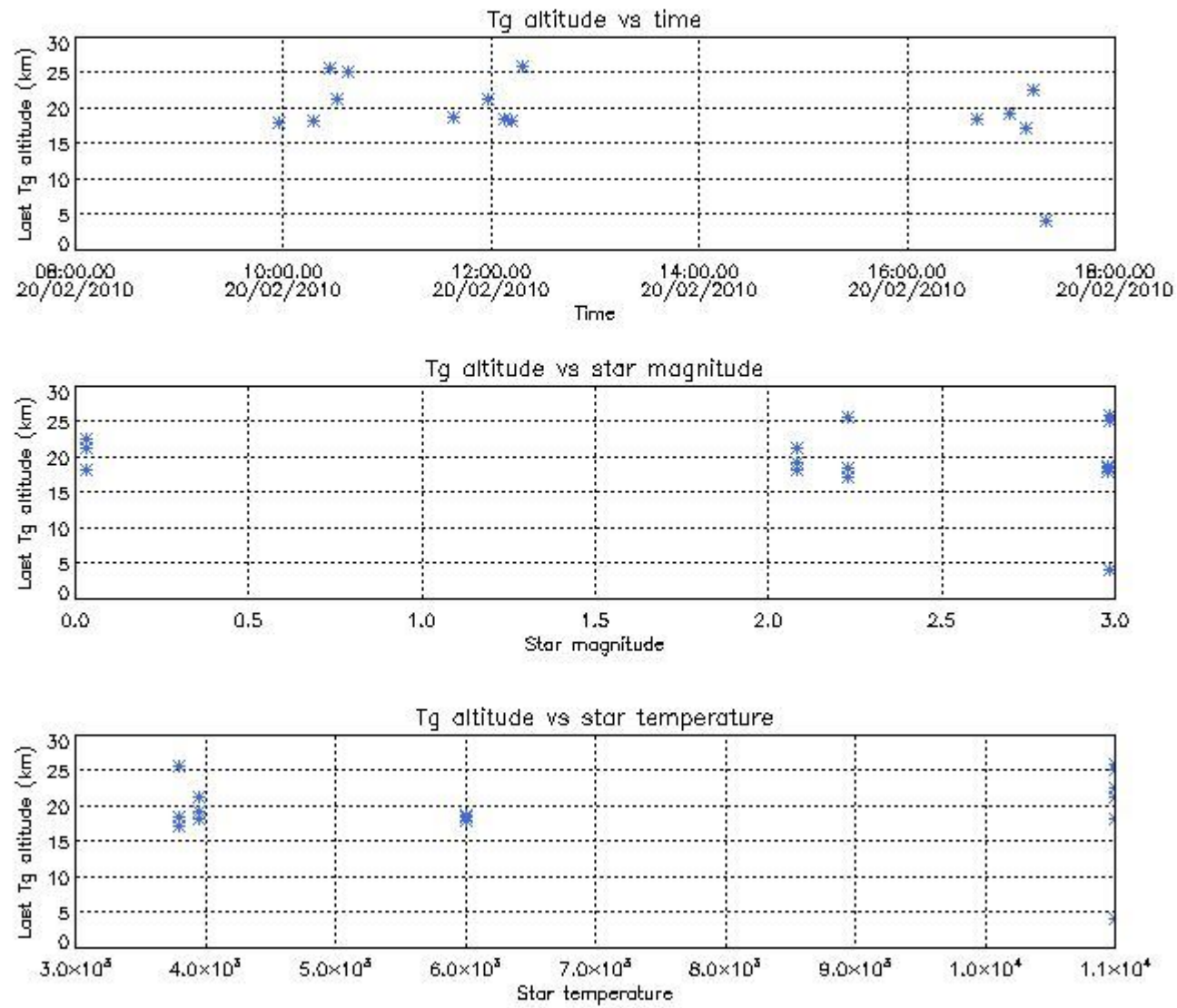
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



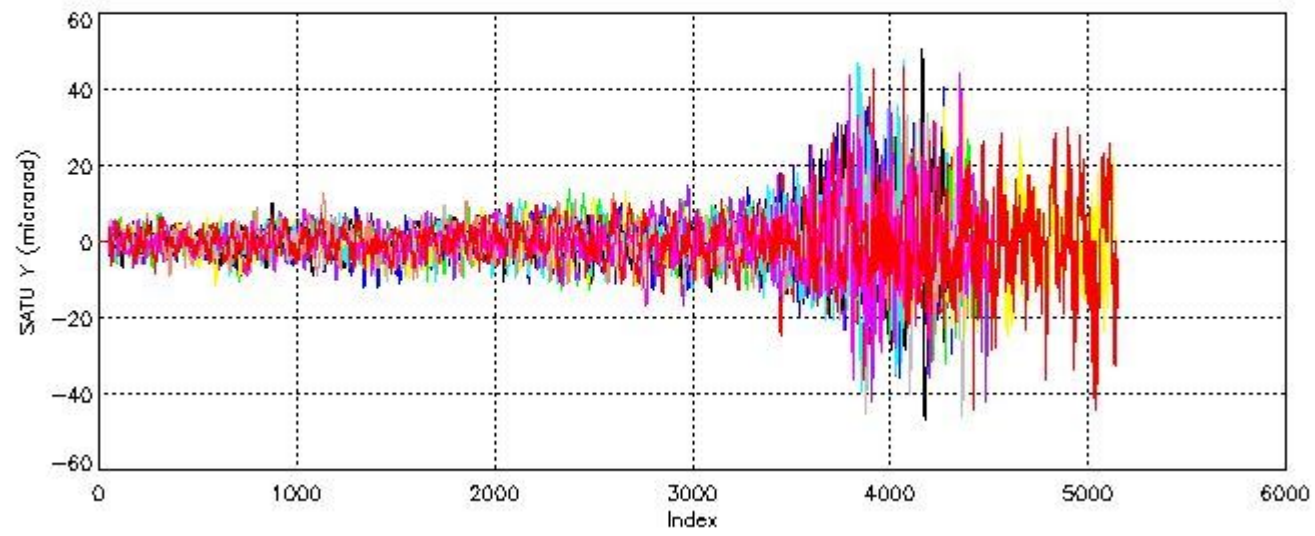
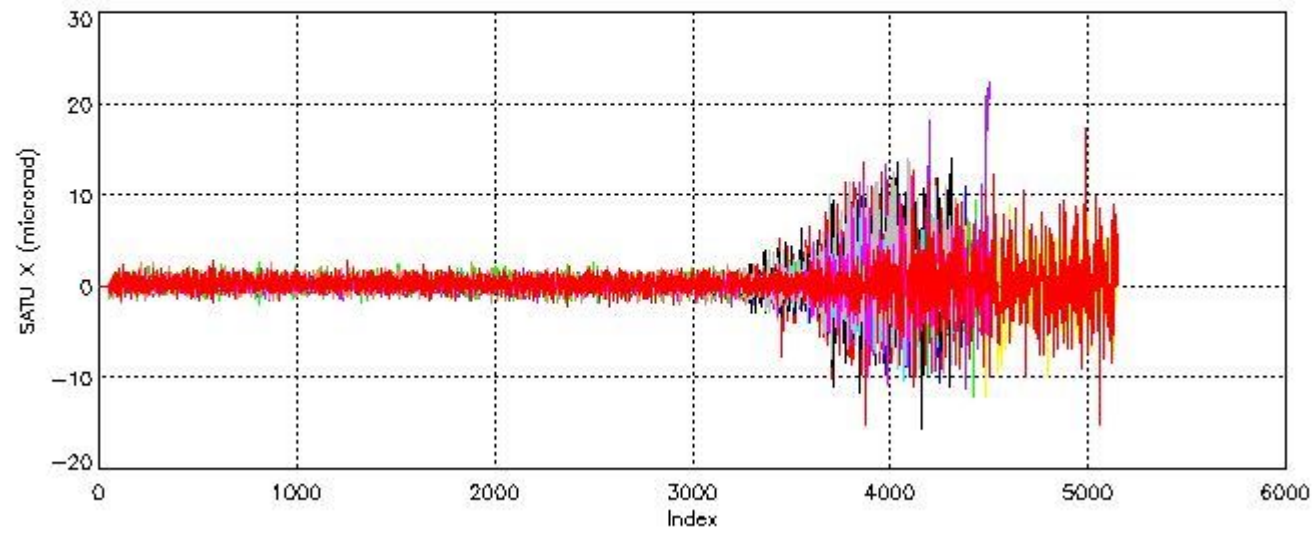
## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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





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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.19802	-0.094901	0.10927	-0.18889
St. deviation:	0.35305	2.6851	0.66283	2.7896
Maximum:	2.7000	9.9000	5.7000	10.100
Minimum:	-2.0000	-11.500	-4.9000	-11.700

Number of data:	10750.	10750.	14150.	14150.
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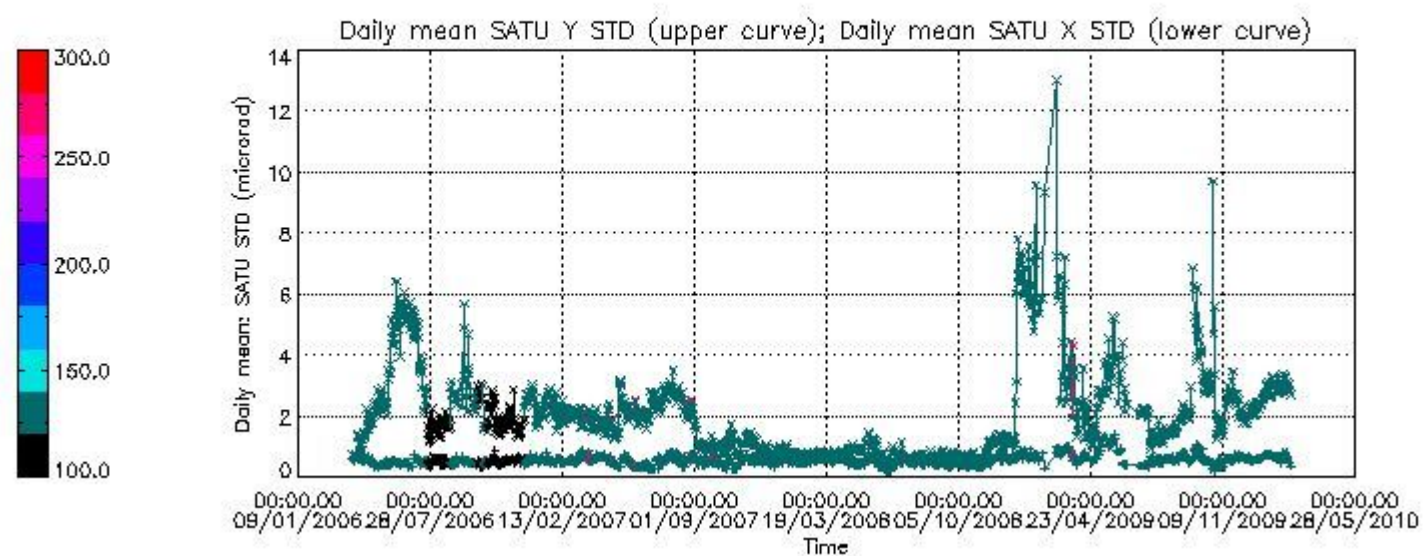
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

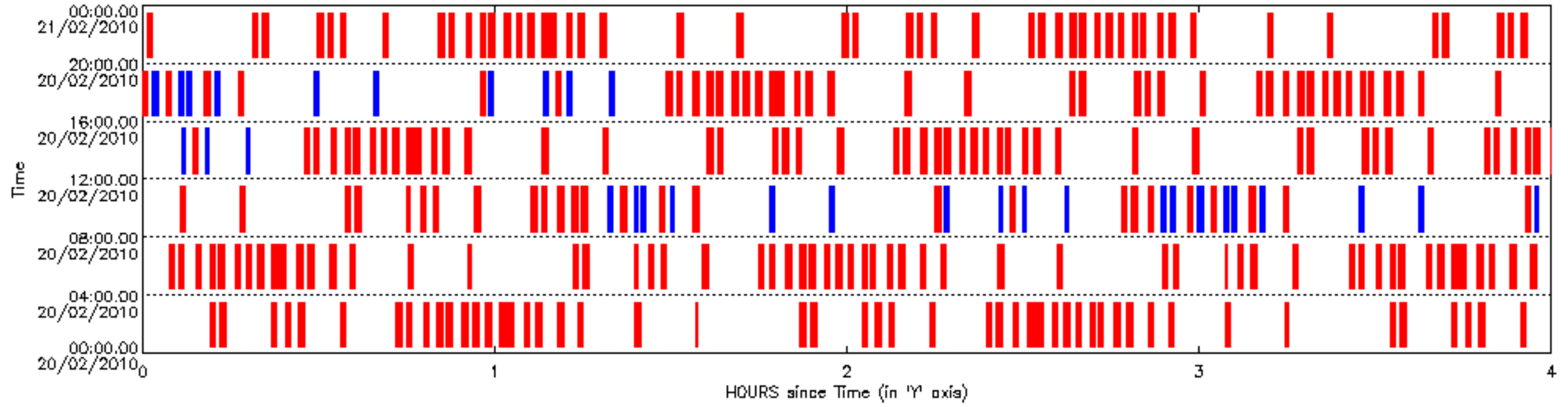
Lower curve: STD of SATU X axis

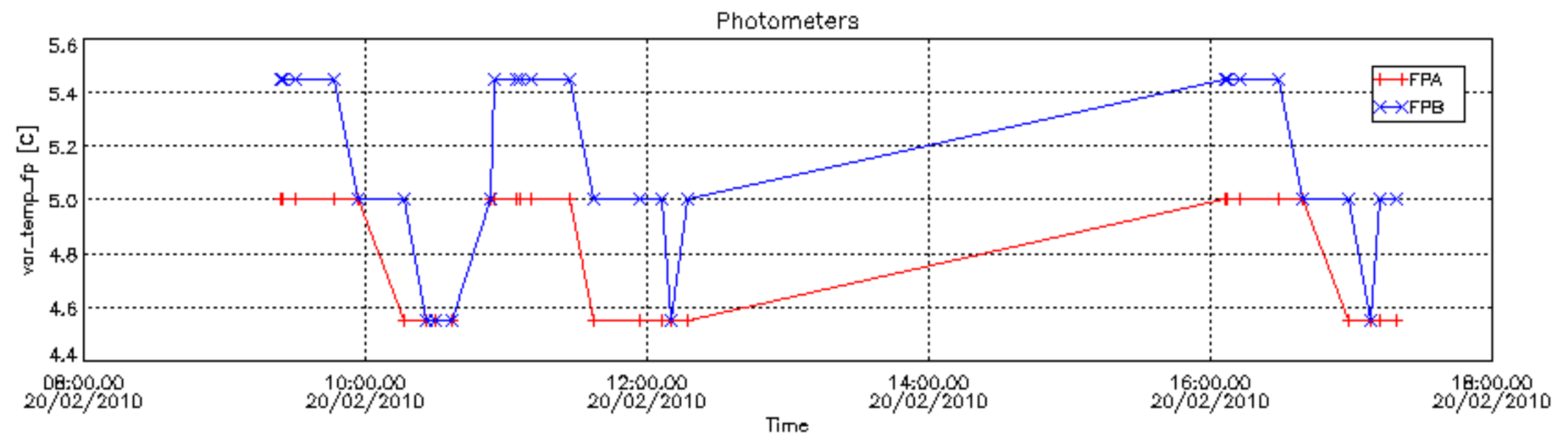
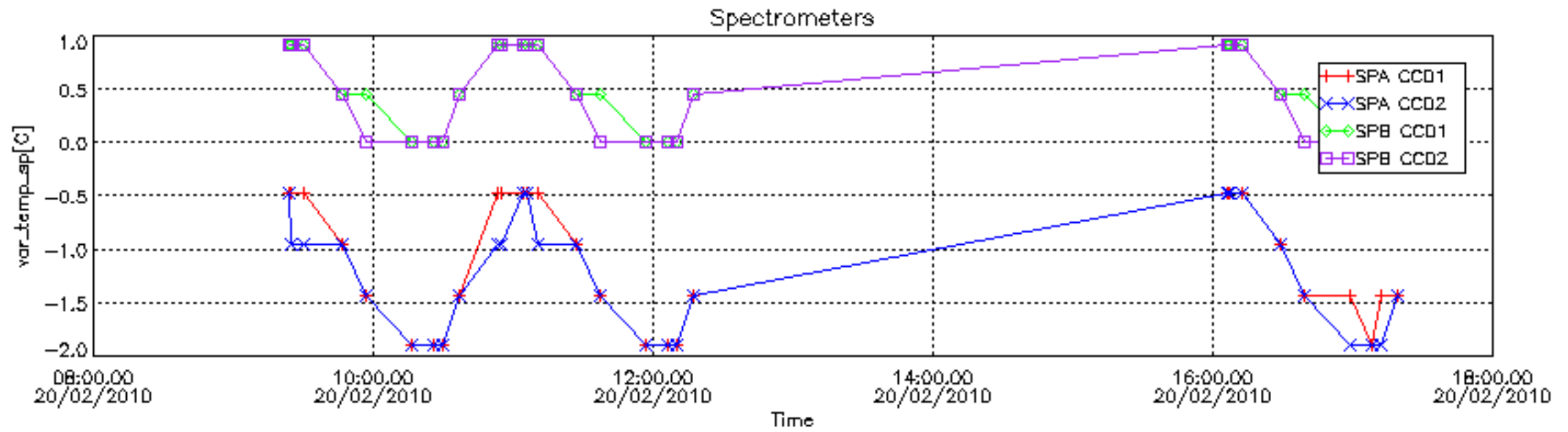


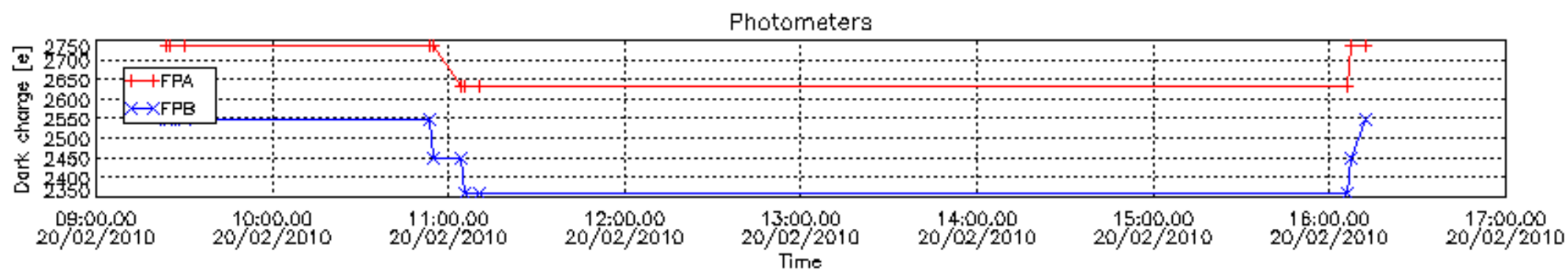
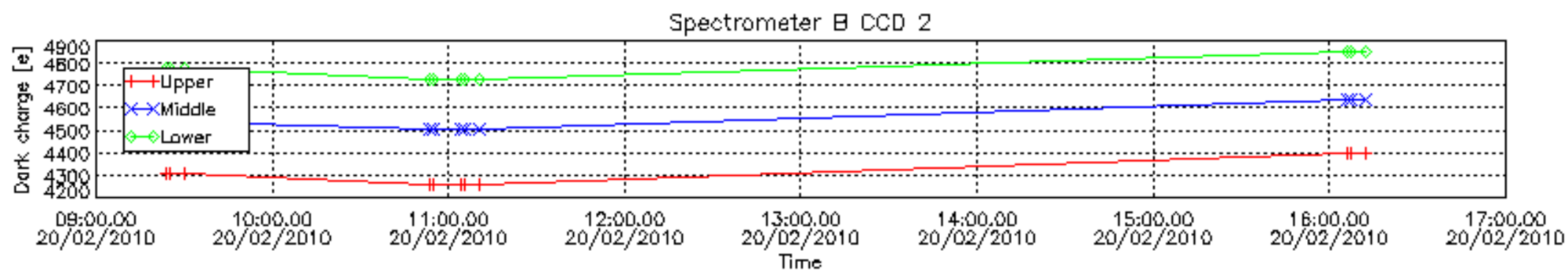
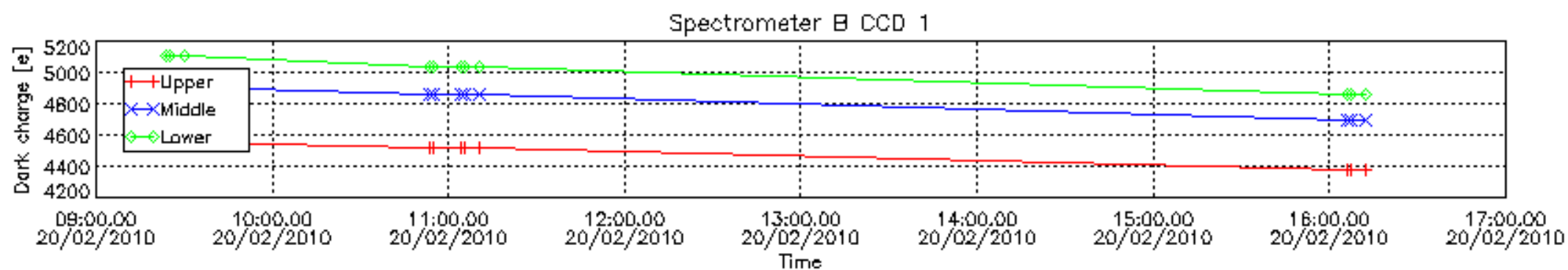
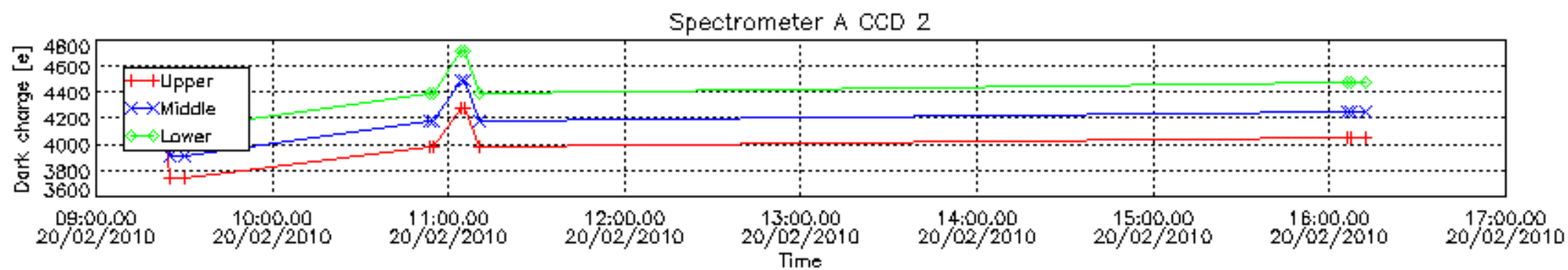
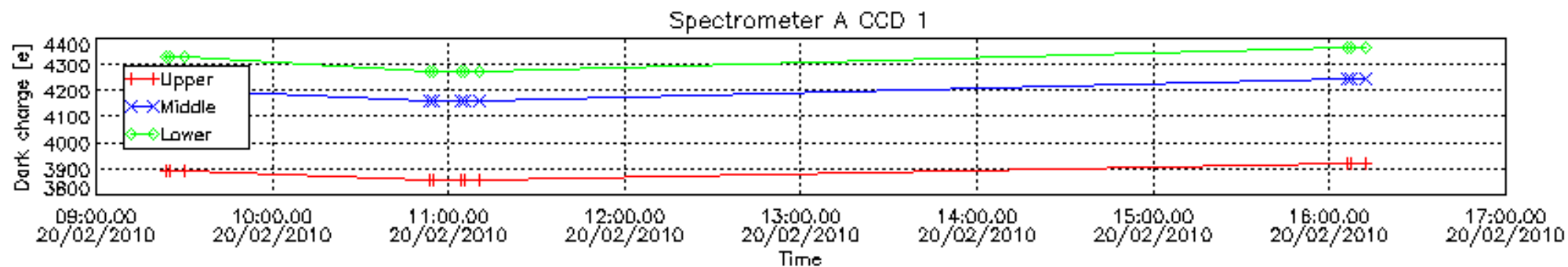
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	20-FEB-2010 09:23:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100216_142029_20100214_000000_20500101_000000	1	20-FEB-2010 09:23:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	20-FEB-2010 09:23:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-FEB-2010 09:23:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	20-FEB-2010 09:23:36
ECMWF_FILE	AUX_ECF_AXNECM20100220_062115_20100220_090000_20100220_210000	1	20-FEB-2010 09:23:36
ECMWF_FILE	AUX_ECF_AXNECM20100220_062116_20100220_150000_20100221_030000	21	20-FEB-2010 16:06:02
OPTIONAL_ECMWF_FILE	MISSING	1	20-FEB-2010 09:23:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20100220_080352_000054192087_00064_41701_2497.N1	1	20-FEB-2010 09:23:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100219_230116_20100219_195253_20100301_211907	4	20-FEB-2010 09:46:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20100220_112027_000057382087_00066_41703_2499.N1	15	20-FEB-2010 11:27:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20100220_143703_000057382087_00068_41705_2501.N1	21	20-FEB-2010 16:06:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20100220_161800_000054192087_00069_41706_2502.N1	24	20-FEB-2010 16:29:07



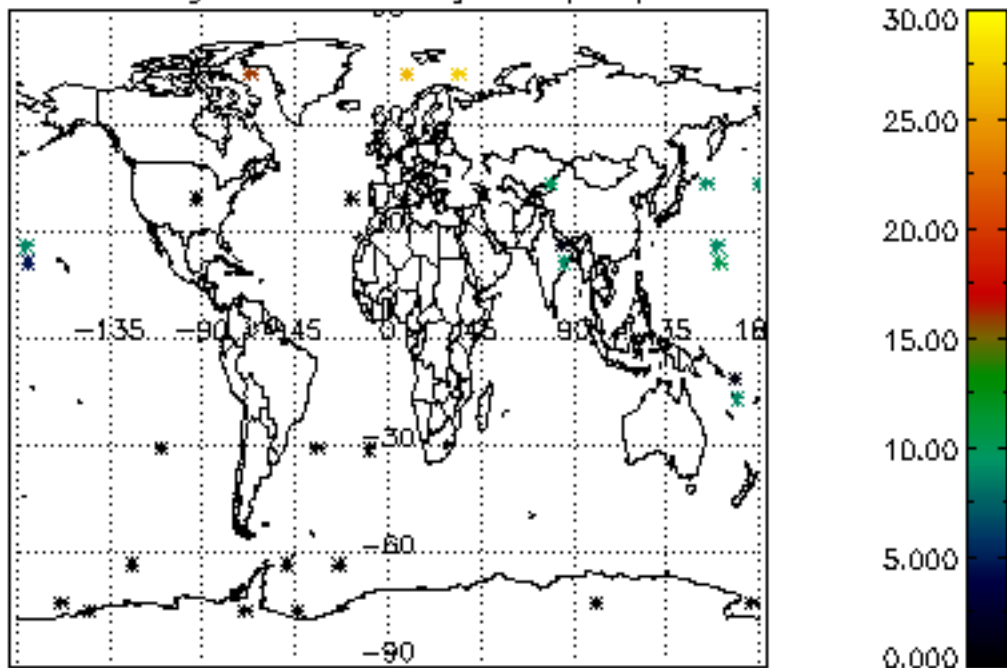




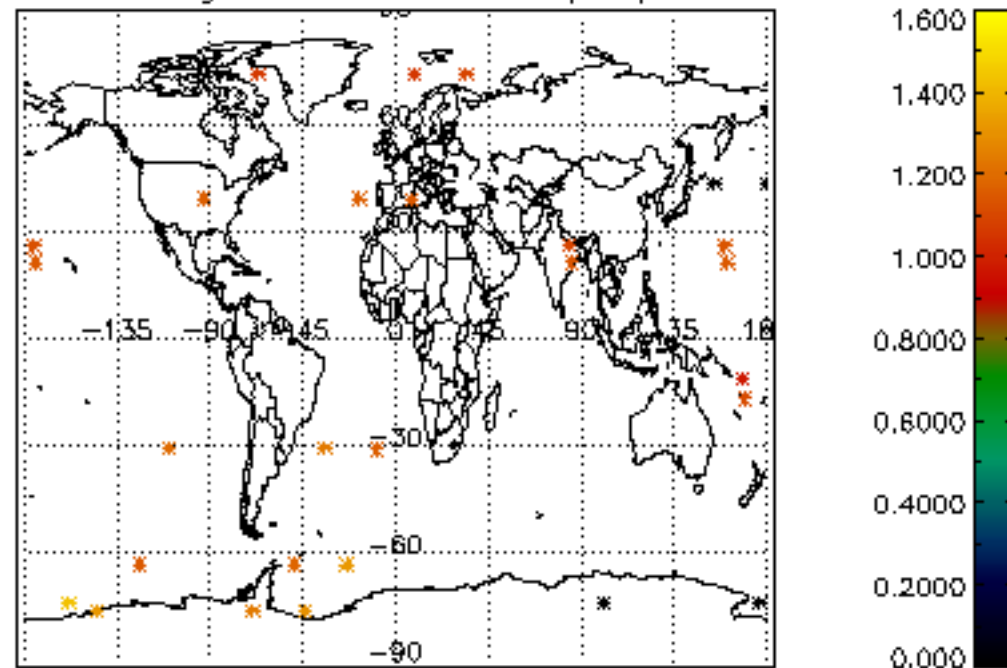




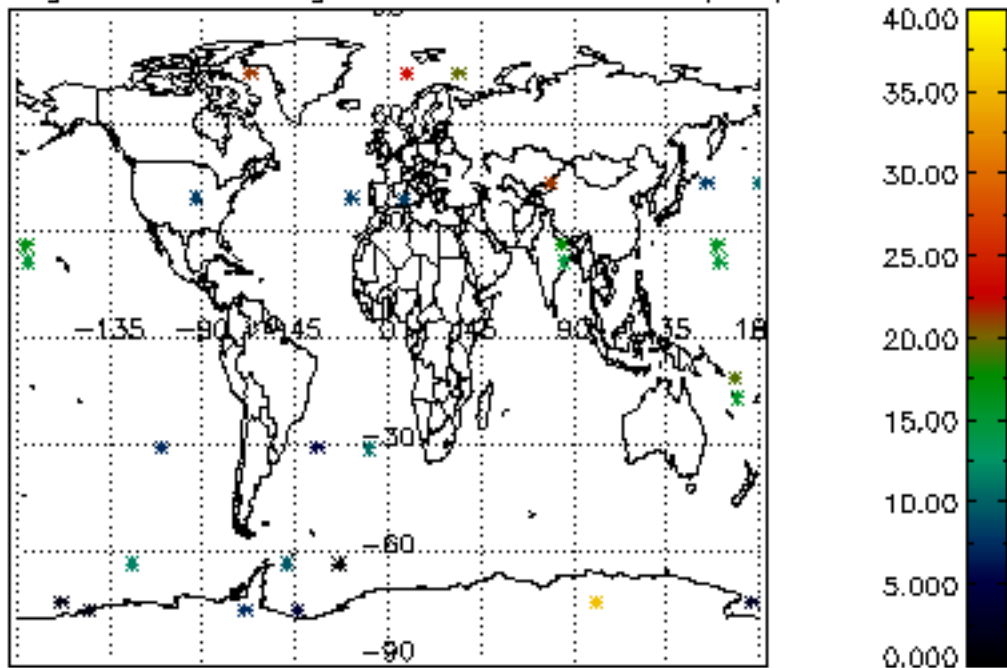
Percentage of cosmic ray hits per profile



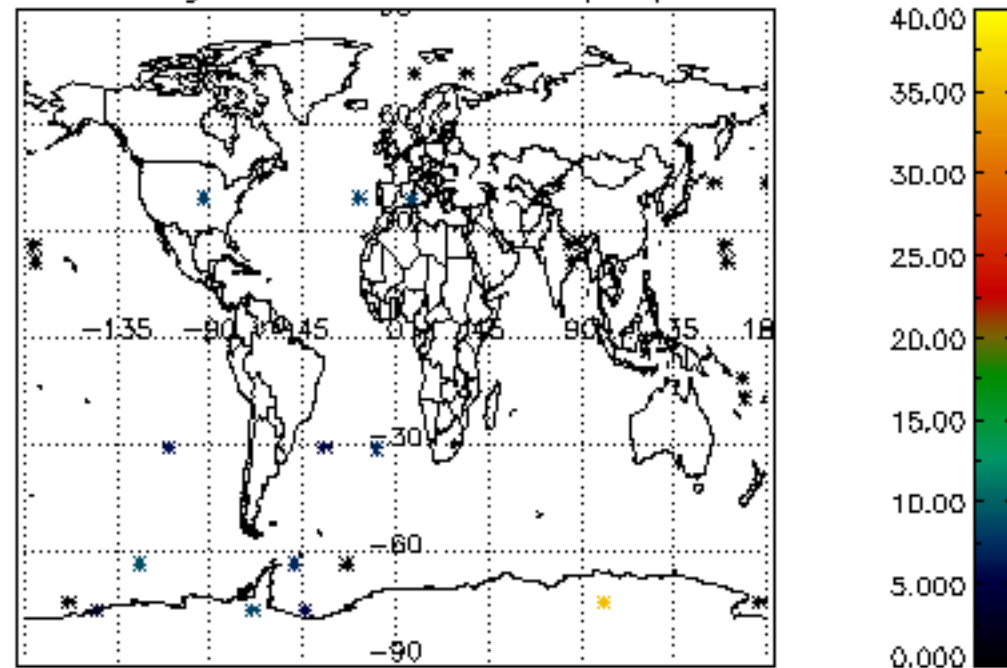
Percentage of datation errors per profile



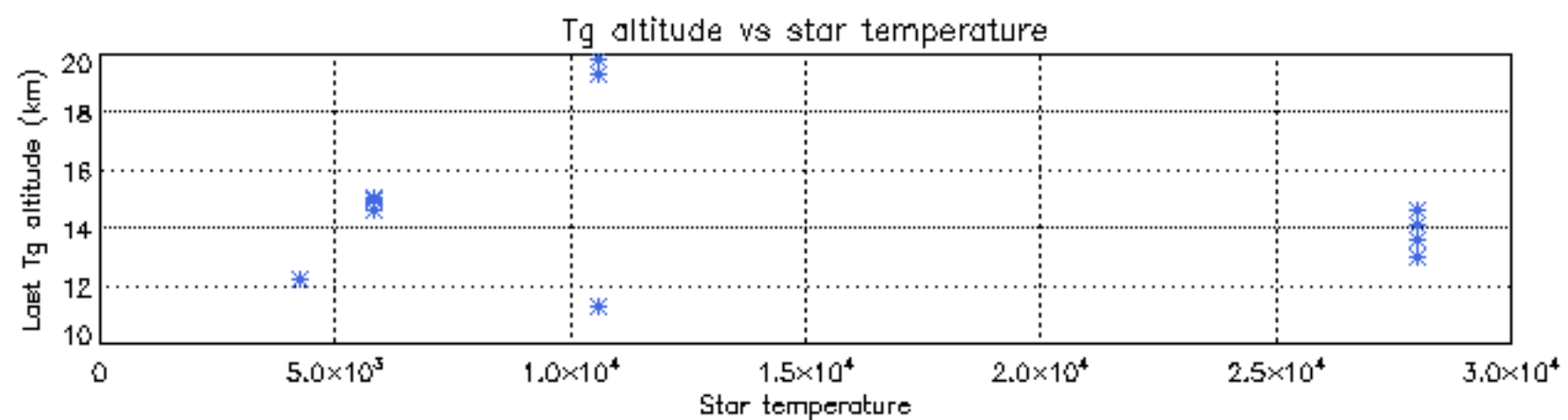
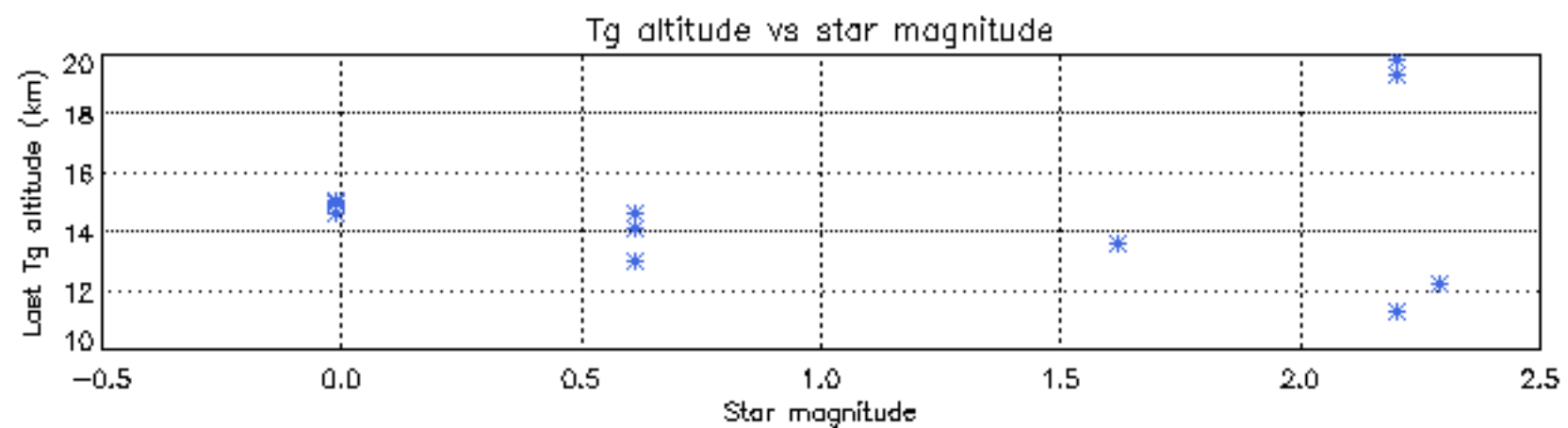
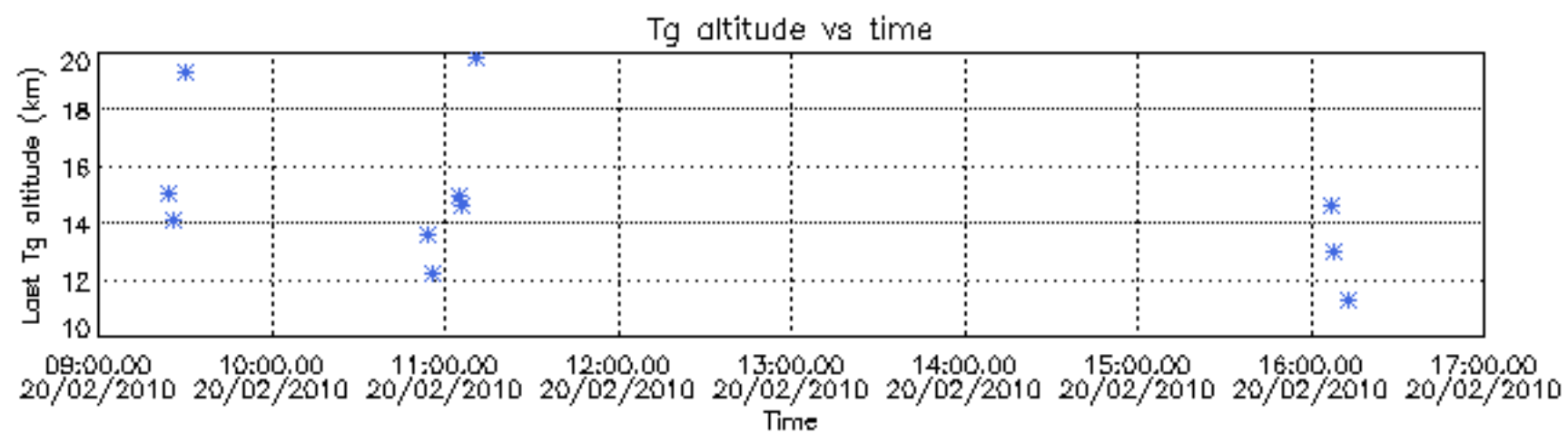
Percentage of star falling outside central band per profile



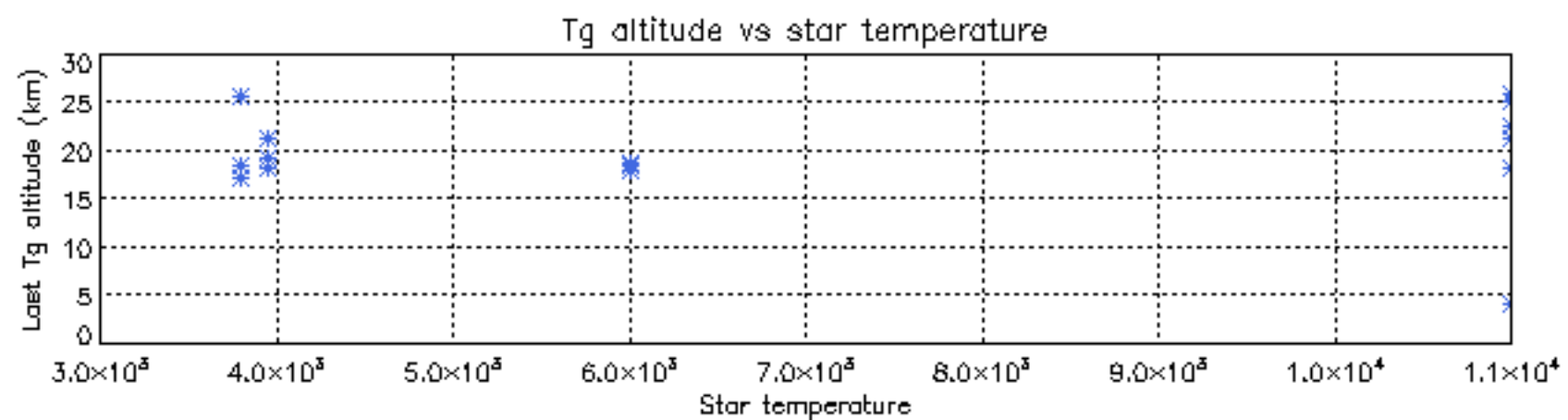
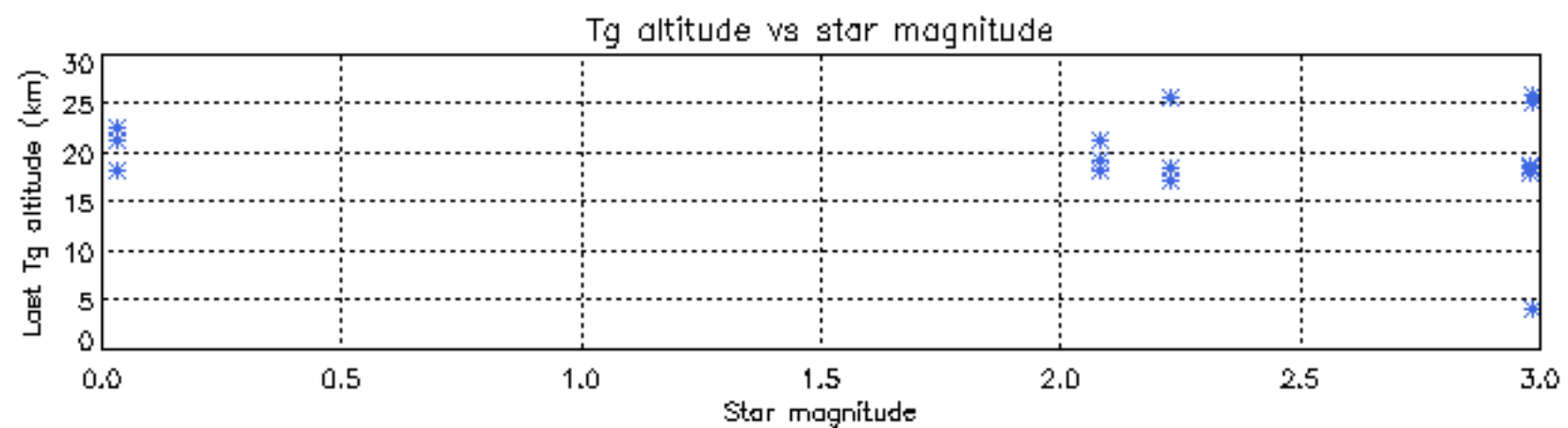
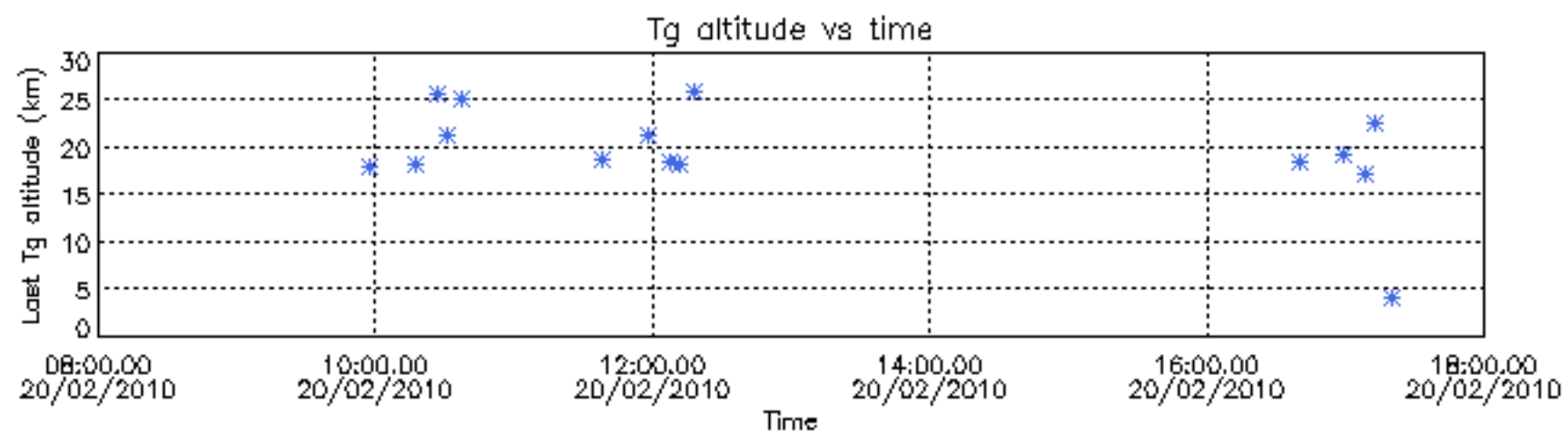
Percentage of saturation errors per profile

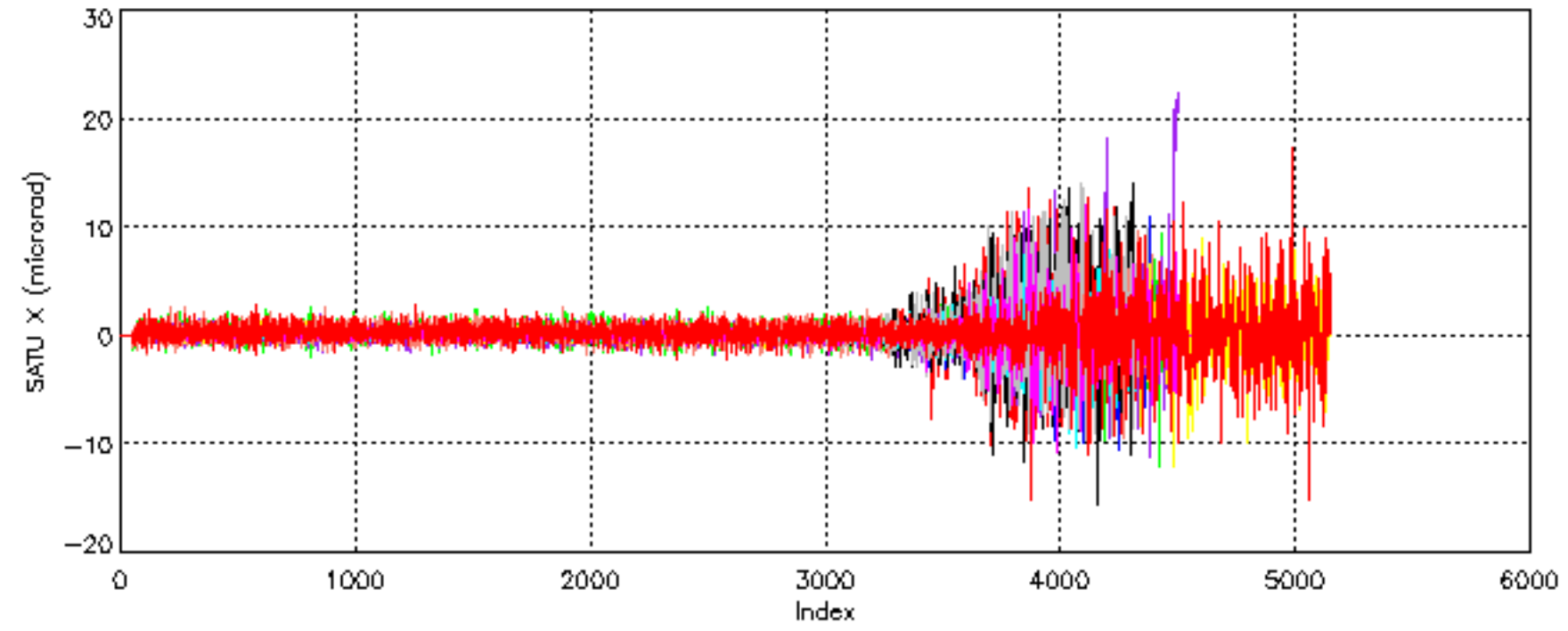


Tangent altitude at which the star is lost

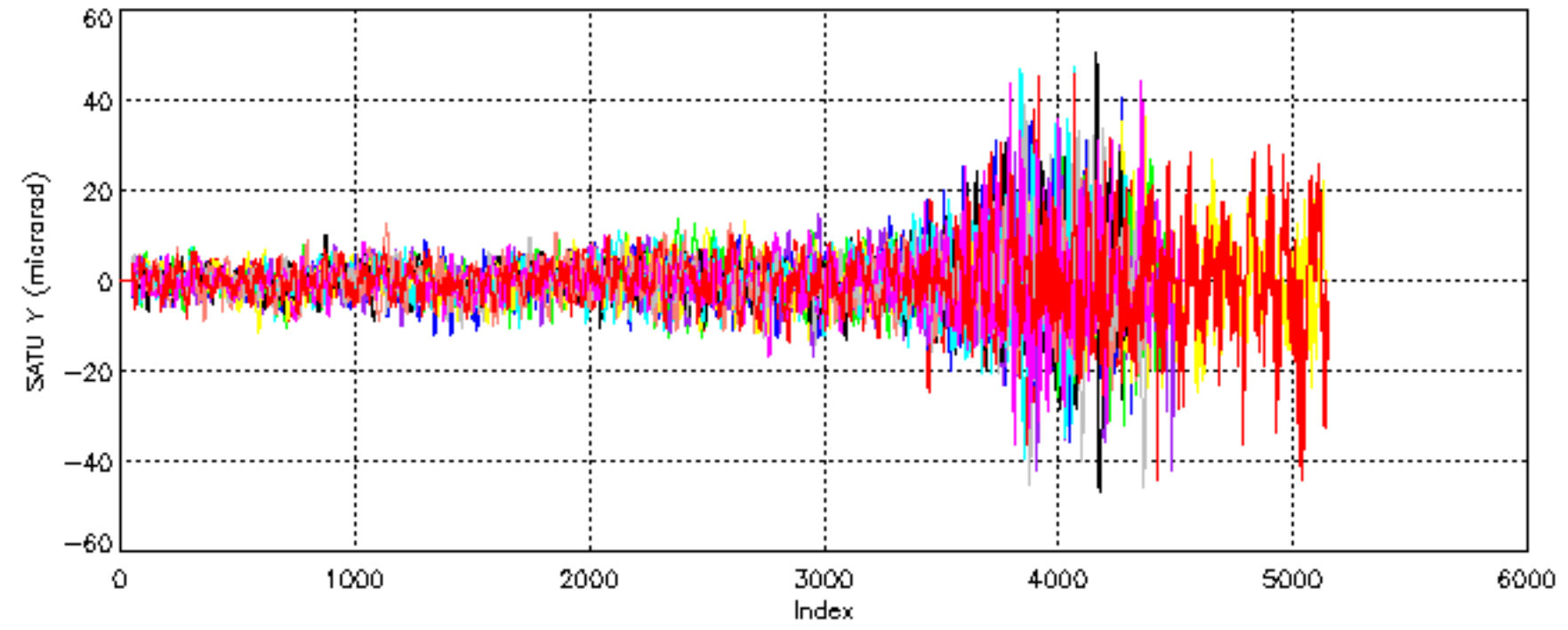


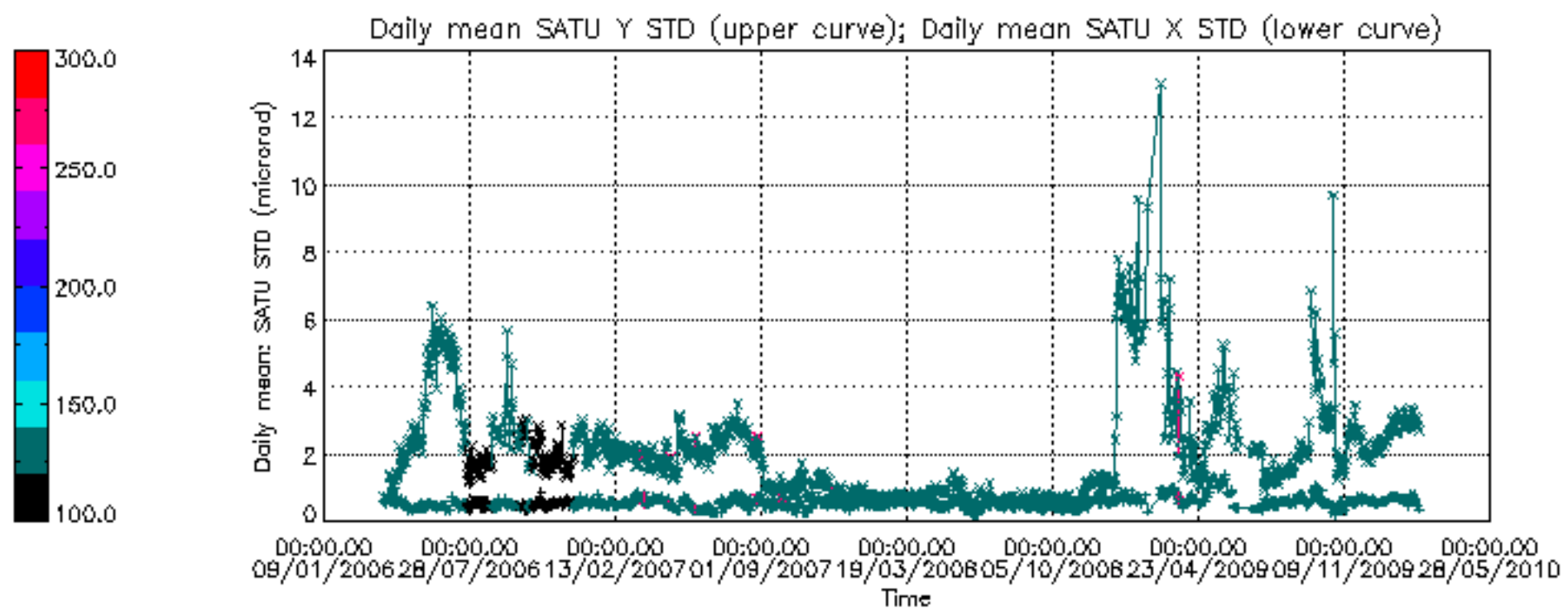
Tangent altitude at which the star is lost











/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  
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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  
 7; 107.6; 01-FEB-2010 02:34:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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  
 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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 20; 2455.9; 01-FEB-2010 03:13:22; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 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  
 5; -1238.0; 01-FEB-2010 03:52:24; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 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  
 10; -114.7; 01-FEB-2010 04:11:07; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 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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 18; 929.4; 01-FEB-2010 04:28:31; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 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
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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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5; -1237.8; 01-FEB-2010 05:33:00; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;41427
6; -1109.8; 01-FEB-2010 05:35:08; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 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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21; 1468.0; 01-FEB-2010 06:18:06; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41428
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23; 2341.7; 01-FEB-2010 06:32:39; Bright; 36.5; 170; 27Eps Gem ; 3.00; 9700;occ; 73; 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
9; 3427.8; 01-FEB-2010 20:15:33; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;41436
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13; 4306.4; 01-FEB-2010 20:30:12; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 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
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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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10; 600.9; 01-FEB-2010 21:09:02; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41437
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
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 23; 6636.2; 01-FEB-2010 19:28:25; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41435  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20100202\_000818\_000056982086\_00302\_41438\_9428.N1

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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; 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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 23; 6868.1; 02-FEB-2010 20:41:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41450  
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 28; 6164.1; 03-FEB-2010 03:11:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41454  
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13; 5948.4; 03-FEB-2010 11:31:20; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41459  
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 12; 941.0; 04-FEB-2010 02:53:51; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41469  
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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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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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 13; 2387.3; 05-FEB-2010 04:26:56; Bright; 41.0; 17; 78Bet Gem ; 1.16; 4500;occ; 82; 0;41484  
 14; 3428.8; 05-FEB-2010 04:44:18; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;41484  
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8; 948.0; 05-FEB-2010 22:29:32; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41495
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13; 4819.6; 05-FEB-2010 23:34:04; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;41495
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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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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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7; 159.3; 06-FEB-2010 03:18:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41498
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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  
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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  
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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
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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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5; -180.5; 09-FEB-2010 01:37:40; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;41539
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6; 3870.9; 09-FEB-2010 16:09:59; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41548
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8; 4839.4; 09-FEB-2010 18:06:43; Bright; 60.0; 59; 55Alp Oph ; 2.08; 8900;occ; 120; 0;41549
9; 4971.3; 09-FEB-2010 18:08:55; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;41549
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16; 5964.7; 12-FEB-2010 16:50:37; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;41591  
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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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9; 5420.0; 12-FEB-2010 18:22:08; Dark ; 52.0; 86; 35Eta Oph ; 2.43; 10200;occ; 104; 0;41592  
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11; 5690.2; 12-FEB-2010 18:26:38; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41592  
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14; 5965.0; 12-FEB-2010 18:31:13; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;41592  
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16; 6266.3; 12-FEB-2010 18:36:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41592  
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7; 4078.0; 12-FEB-2010 19:40:22; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41593  
8; 4325.0; 12-FEB-2010 19:44:29; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41593  
9; 4735.6; 12-FEB-2010 19:51:20; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41593  
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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  
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  
15; 5965.4; 12-FEB-2010 20:11:50; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;41593  
16; 6072.9; 12-FEB-2010 20:13:37; Dark ; 45.5; 131; Gam Lup ; 2.80; 26000;occ; 91; 0;41593  
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19; 6594.3; 12-FEB-2010 20:22:19; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41593  
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21; 6969.1; 12-FEB-2010 20:28:33; Dark ; 42.0; 91; Kap Vel ; 2.49; 26000;occ; 84; 0;41593

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9; 934.2; 13-FEB-2010 01:30:22; Dark ; 37.0; 91; Kap Vel ; 2.49; 26000;occ; 74; 0;41597
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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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15; 3857.7; 13-FEB-2010 02:19:06; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;41597
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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18; 4325.2; 13-FEB-2010 02:26:53; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41597
19; 4736.1; 13-FEB-2010 02:33:44; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 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
24; 5692.7; 13-FEB-2010 02:49:41; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41597
25; 5771.7; 13-FEB-2010 02:50:59; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41597
26; 5966.9; 13-FEB-2010 02:54:15; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;41597
27; 6076.8; 13-FEB-2010 02:56:05; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41597
28; 6270.1; 13-FEB-2010 02:59:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41597
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30; 6596.4; 13-FEB-2010 03:04:44; Dark ; 54.5; 12; Alp1Cru ; 0.77; 30000;occ; 109; 0;41597
31; 6686.1; 13-FEB-2010 03:06:14; Dark ; 55.5; 64; Gam Cen ; 2.20; 10600;occ; 111; 0;41597
32; 6970.4; 13-FEB-2010 03:10:58; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;41597
33; 7169.2; 13-FEB-2010 03:14:17; Dark ; 49.5; 65; Lam Vel ; 2.20; 4400;occ; 99; 0;41597
34; 7774.7; 13-FEB-2010 03:24:22; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;41597
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2;-2178.5; 13-FEB-2010 03:59:41; Bright; 31.0; 119; 14Eta Dra ; 2.73; 4700;occ; 62; 0;41598
3;-1958.3; 13-FEB-2010 04:03:21; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41598
4;-1847.8; 13-FEB-2010 04:05:12; Bright; 33.0; 144; 18Del Cyg ; 2.86; 11000;occ; 66; 0;41598
5;-1710.3; 13-FEB-2010 04:07:29; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41598
6;-1299.4; 13-FEB-2010 04:14:20; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41598
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13; 41.8; 13-FEB-2010 04:36:41; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41599
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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;-1299.4; 13-FEB-2010 05:54:56; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;41599
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3; 4070.6; 17-FEB-2010 12:00:21; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;41660
4; 4331.2; 17-FEB-2010 12:04:42; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41660
5; 5026.5; 17-FEB-2010 12:16:17; Dark ; 55.5; 126; 60Bet Oph ; 2.77; 4250;occ; 111; 0;41660
6; 5729.1; 17-FEB-2010 12:28:00; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;41660
7; 5808.6; 17-FEB-2010 12:29:19; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;41660
8; 6102.4; 17-FEB-2010 12:34:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41660
9; 6367.5; 17-FEB-2010 12:38:38; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;41660
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12; 6627.4; 17-FEB-2010 12:42:58; Dark ; 54.0; 12; Alp1Cru ; 0.77; 30000;occ; 108; 0;41660
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3; 4070.4; 17-FEB-2010 13:40:57; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41661
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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11; 6533.0; 17-FEB-2010 14:22:00; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41661
12; 6627.5; 17-FEB-2010 14:23:34; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41661
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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4; 4331.2; 17-FEB-2010 15:25:54; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41662
5; 5027.5; 17-FEB-2010 15:37:30; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41662
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
8; 6103.2; 17-FEB-2010 15:55:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41662
9; 6369.0; 17-FEB-2010 15:59:52; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 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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3; 4070.3; 17-FEB-2010 17:02:09; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41663
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
9; 6369.5; 17-FEB-2010 17:40:28; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 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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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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8; 6104.2; 17-FEB-2010 19:16:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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4; 4069.8; 17-FEB-2010 20:23:20; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41665
5; 4331.7; 17-FEB-2010 20:27:42; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41665
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7; 5732.3; 17-FEB-2010 20:51:03; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41665
8; 5813.0; 17-FEB-2010 20:52:24; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;41665
9; 6104.6; 17-FEB-2010 20:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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5; 415.3; 18-FEB-2010 00:24:14; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;41668
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7; 595.1; 18-FEB-2010 00:27:13; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;41668
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
10; 1741.1; 18-FEB-2010 00:46:19; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;41668
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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
8; 704.8; 18-FEB-2010 02:09:39; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41669
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10; 503.9; 18-FEB-2010 03:46:54; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 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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7; 417.5; 18-FEB-2010 05:26:04; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;41671
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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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
7; 601.7; 18-FEB-2010 23:55:43; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;41682
8; 714.5; 18-FEB-2010 23:57:36; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;41682
9; 944.5; 19-FEB-2010 00:01:26; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41682
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7; 418.0; 18-FEB-2010 07:06:40; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41672
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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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6; 5819.3; 18-FEB-2010 08:36:41; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;41672
7; 6374.8; 18-FEB-2010 08:45:57; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;41672
8; 6454.5; 18-FEB-2010 08:47:17; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41672
9; 6541.9; 18-FEB-2010 08:48:44; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 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
4; 4332.3; 18-FEB-2010 09:52:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41673
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8; 6375.7; 18-FEB-2010 10:26:34; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41673
9; 6455.1; 18-FEB-2010 10:27:53; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41673
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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
4; 4332.2; 18-FEB-2010 11:33:06; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41674

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6; 5820.9; 18-FEB-2010 11:57:55; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41674
7; 6109.0; 18-FEB-2010 12:02:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41674
8; 6376.3; 18-FEB-2010 12:07:10; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;41674
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3; 4068.4; 18-FEB-2010 13:09:18; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41675
4; 4332.3; 18-FEB-2010 13:13:42; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41675
5; 5738.6; 18-FEB-2010 13:37:08; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;41675
6; 5821.9; 18-FEB-2010 13:38:32; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41675
7; 6109.6; 18-FEB-2010 13:43:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41675
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9; 6456.2; 18-FEB-2010 13:49:06; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41675
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13; 6978.1; 18-FEB-2010 13:57:48; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 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
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5; 5739.4; 18-FEB-2010 15:17:45; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41676
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12; 6746.8; 18-FEB-2010 15:34:32; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41676
13; 6978.7; 18-FEB-2010 15:38:24; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 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
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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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
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3; -285.2; 19-FEB-2010 21:28:43; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41694
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
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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
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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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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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11; 6552.6; 19-FEB-2010 08:17:18; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41686
12; 6640.1; 19-FEB-2010 08:18:45; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 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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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
11; 6553.2; 19-FEB-2010 09:57:54; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41687
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
8; 6116.8; 19-FEB-2010 11:31:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41688
9; 6384.6; 19-FEB-2010 11:35:42; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41688
10; 6464.1; 19-FEB-2010 11:37:01; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41688
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
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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
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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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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  
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 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  
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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  
 10; 6386.4; 19-FEB-2010 16:37:31; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;41691  
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13; 2130.3; 26-FEB-2010 23:29:28; Bright; 45.0; 22; 32Alp Leo ; 1.36; 15200;occ; 90; 0;41796
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 4; 2985.5; 28-FEB-2010 19:19:18; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;41822
 5; 3494.5; 28-FEB-2010 19:27:47; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41822
 6; 3777.2; 28-FEB-2010 19:32:29; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;41822
 7; 4039.4; 28-FEB-2010 19:36:51; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;41822
 8; 4211.7; 28-FEB-2010 19:39:44; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;41822
 9; 4341.3; 28-FEB-2010 19:41:53; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;41822
10; 4795.7; 28-FEB-2010 19:49:28; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;41822
11; 5491.4; 28-FEB-2010 20:01:03; Dark ; 46.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 92; 0;41822
12; 5677.1; 28-FEB-2010 20:04:09; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;41822
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14; 6031.4; 28-FEB-2010 20:10:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41822
15; 6326.2; 28-FEB-2010 20:14:58; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;41822
16; 6465.8; 28-FEB-2010 20:17:18; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41822
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