

# GOMOS Daily Report 14-FEB-2010

## Level 0 and Level 1 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	16FEB2010 04:33:11
Data source version	GOMOS/5.00L04
Start time of products	14FEB2010 00:01:57
Stop time of products	14FEB2010 23:54:24
Store outputs in DB	Yes
Nb of level 1b prods	69
Nb of prods with errors	0

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

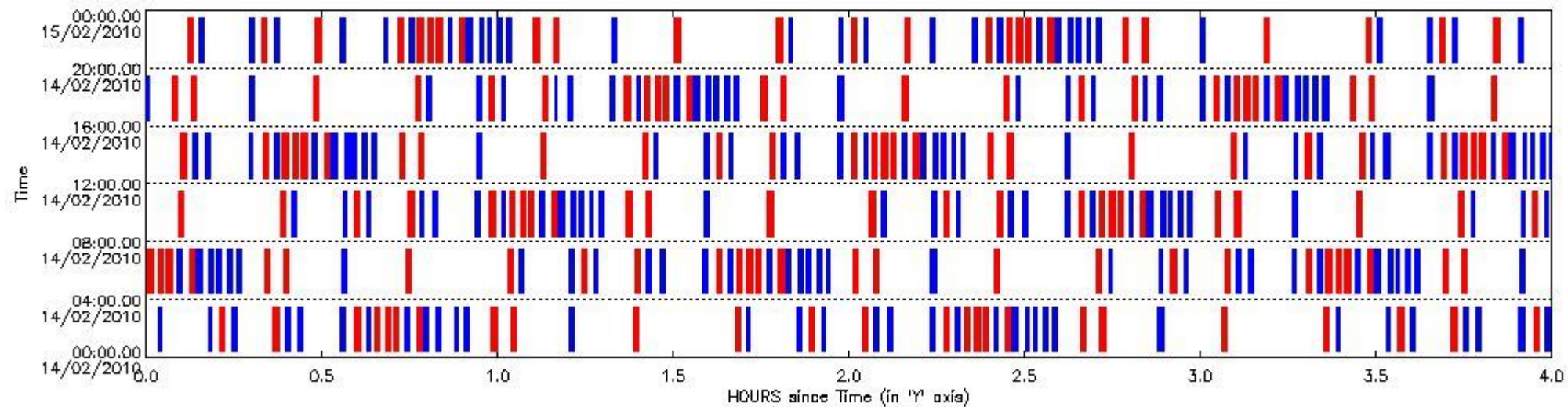
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
14-FEB-2010 00:12:32	18DelCyg	144	41610
14-FEB-2010 00:21:42	17ZetAql	168	41610
14-FEB-2010 00:35:38	20EpsSgr	38	41610
14-FEB-2010 00:39:00	TheSco	40	41610
14-FEB-2010 00:40:47	AlpAra	147	41610
14-FEB-2010 00:42:15	BetAra	141	41610
14-FEB-2010 00:46:08	BetTrA	134	41611
14-FEB-2010 00:58:56	KapVel	91	41611
14-FEB-2010 01:02:15	LamVel	65	41611
14-FEB-2010 01:23:05	78BetGem	17	41611
14-FEB-2010 01:40:29	1AlpUMi	49	41611
14-FEB-2010 01:53:08	18DelCyg	144	41611
14-FEB-2010 02:02:18	17ZetAql	168	41611
14-FEB-2010 02:16:14	20EpsSgr	38	41611
14-FEB-2010 02:19:37	TheSco	40	41611

14-FEB-2010 02:21:23	AlpAra	147	41611
14-FEB-2010 02:22:51	BetAra	141	41611
14-FEB-2010 02:26:45	BetTrA	134	41612
14-FEB-2010 02:39:33	KapVel	91	41612
14-FEB-2010 02:42:51	LamVel	65	41612
14-FEB-2010 03:03:41	78BetGem	17	41612
14-FEB-2010 03:21:05	1AlpUMi	49	41612
14-FEB-2010 03:33:44	18DelCyg	144	41612
14-FEB-2010 03:42:54	17ZetAql	168	41612
14-FEB-2010 03:56:50	20EpsSgr	38	41612
14-FEB-2010 04:00:13	TheSco	40	41612
14-FEB-2010 04:02:00	AlpAra	147	41612
14-FEB-2010 04:03:27	BetAra	141	41612
14-FEB-2010 04:07:21	BetTrA	134	41613
14-FEB-2010 04:20:09	KapVel	91	41613
14-FEB-2010 04:23:28	LamVel	65	41613
14-FEB-2010 04:44:17	78BetGem	17	41613
14-FEB-2010 05:01:41	1AlpUMi	49	41613
14-FEB-2010 05:14:20	18DelCyg	144	41613
14-FEB-2010 05:23:30	17ZetAql	168	41613
14-FEB-2010 05:37:27	20EpsSgr	38	41613
14-FEB-2010 05:40:50	TheSco	40	41613
14-FEB-2010 05:42:36	AlpAra	147	41613
14-FEB-2010 05:44:04	BetAra	141	41613
14-FEB-2010 05:47:57	BetTrA	134	41614
14-FEB-2010 06:00:45	KapVel	91	41614
14-FEB-2010 06:04:04	LamVel	65	41614
14-FEB-2010 06:24:53	78BetGem	17	41614
14-FEB-2010 06:42:16	1AlpUMi	49	41614
14-FEB-2010 06:54:56	18DelCyg	144	41614
14-FEB-2010 07:04:06	17ZetAql	168	41614
14-FEB-2010 07:18:03	20EpsSgr	38	41614
14-FEB-2010 07:21:26	TheSco	40	41614
14-FEB-2010 07:23:12	AlpAra	147	41614
14-FEB-2010 07:24:40	BetAra	141	41614
14-FEB-2010 07:28:34	BetTrA	134	41615
14-FEB-2010 07:41:21	KapVel	91	41615
14-FEB-2010 07:44:40	LamVel	65	41615
14-FEB-2010 08:05:29	78BetGem	17	41615
14-FEB-2010 08:22:52	1AlpUMi	49	41615
14-FEB-2010 08:35:32	18DelCyg	144	41615
14-FEB-2010 08:44:42	17ZetAql	168	41615
14-FEB-2010 08:58:39	20EpsSgr	38	41615
14-FEB-2010 09:02:02	TheSco	40	41615
14-FEB-2010 09:03:49	AlpAra	147	41615
14-FEB-2010 09:05:16	BetAra	141	41615
14-FEB-2010 09:09:10	BetTrA	134	41616
14-FEB-2010 09:21:57	KapVel	91	41616
14-FEB-2010 09:25:16	LamVel	65	41616
14-FEB-2010 09:46:05	78BetGem	17	41616
14-FEB-2010 10:03:28	1AlpUMi	49	41616
14-FEB-2010 10:16:09	18DelCyg	144	41616
14-FEB-2010 10:25:19	17ZetAql	168	41616
14-FEB-2010 10:39:16	20EpsSgr	38	41616
14-FEB-2010 10:42:39	TheSco	40	41616
14-FEB-2010 10:44:25	AlpAra	147	41616
14-FEB-2010 10:45:53	BetAra	141	41616
14-FEB-2010 10:49:47	BetTrA	134	41617
14-FEB-2010 11:02:34	KapVel	91	41617

14-FEB-2010 11:05:52	LamVel	65	41617
14-FEB-2010 11:26:41	78BetGem	17	41617
14-FEB-2010 11:44:04	1AlpUMi	49	41617
14-FEB-2010 11:56:45	18DelCyg	144	41617
14-FEB-2010 12:05:55	17ZetAql	168	41617
14-FEB-2010 12:19:52	20EpsSgr	38	41617
14-FEB-2010 12:23:15	TheSco	40	41617
14-FEB-2010 12:25:01	AlpAra	147	41617
14-FEB-2010 12:26:29	BetAra	141	41617
14-FEB-2010 12:30:23	BetTrA	134	41618
14-FEB-2010 12:43:10	KapVel	91	41618
14-FEB-2010 12:46:29	LamVel	65	41618
14-FEB-2010 13:07:17	78BetGem	17	41618
14-FEB-2010 13:24:40	1AlpUMi	49	41618
14-FEB-2010 13:37:21	18DelCyg	144	41618
14-FEB-2010 13:46:31	17ZetAql	168	41618
14-FEB-2010 14:00:28	20EpsSgr	38	41618
14-FEB-2010 14:03:52	TheSco	40	41618
14-FEB-2010 14:05:38	AlpAra	147	41618
14-FEB-2010 14:07:05	BetAra	141	41618
14-FEB-2010 14:10:59	BetTrA	134	41619
14-FEB-2010 14:23:46	KapVel	91	41619
14-FEB-2010 14:27:05	LamVel	65	41619
14-FEB-2010 14:47:53	78BetGem	17	41619
14-FEB-2010 15:05:16	1AlpUMi	49	41619
14-FEB-2010 15:17:57	18DelCyg	144	41619
14-FEB-2010 15:27:07	17ZetAql	168	41619
14-FEB-2010 15:41:04	20EpsSgr	38	41619
14-FEB-2010 15:44:28	TheSco	40	41619
14-FEB-2010 15:46:14	AlpAra	147	41619
14-FEB-2010 15:47:42	BetAra	141	41619
14-FEB-2010 15:51:36	BetTrA	134	41620
14-FEB-2010 16:04:22	KapVel	91	41620
14-FEB-2010 16:07:41	LamVel	65	41620
14-FEB-2010 16:28:29	78BetGem	17	41620
14-FEB-2010 16:45:52	1AlpUMi	49	41620
14-FEB-2010 16:58:33	18DelCyg	144	41620
14-FEB-2010 17:07:43	17ZetAql	168	41620
14-FEB-2010 17:21:41	20EpsSgr	38	41620
14-FEB-2010 17:25:05	TheSco	40	41620
14-FEB-2010 17:26:51	AlpAra	147	41620
14-FEB-2010 17:28:18	BetAra	141	41620
14-FEB-2010 17:32:12	BetTrA	134	41621
14-FEB-2010 17:44:58	KapVel	91	41621
14-FEB-2010 17:48:17	LamVel	65	41621
14-FEB-2010 18:09:05	78BetGem	17	41621
14-FEB-2010 18:26:28	1AlpUMi	49	41621
14-FEB-2010 18:39:09	18DelCyg	144	41621
14-FEB-2010 18:48:19	17ZetAql	168	41621
14-FEB-2010 19:02:17	20EpsSgr	38	41621
14-FEB-2010 19:05:41	TheSco	40	41621
14-FEB-2010 19:07:27	AlpAra	147	41621
14-FEB-2010 19:08:54	BetAra	141	41621
14-FEB-2010 19:12:49	BetTrA	134	41622
14-FEB-2010 19:25:35	KapVel	91	41622
14-FEB-2010 19:28:53	LamVel	65	41622
14-FEB-2010 19:49:41	78BetGem	17	41622
14-FEB-2010 20:07:04	1AlpUMi	49	41622
14-FEB-2010 20:19:45	18DelCyg	144	41622

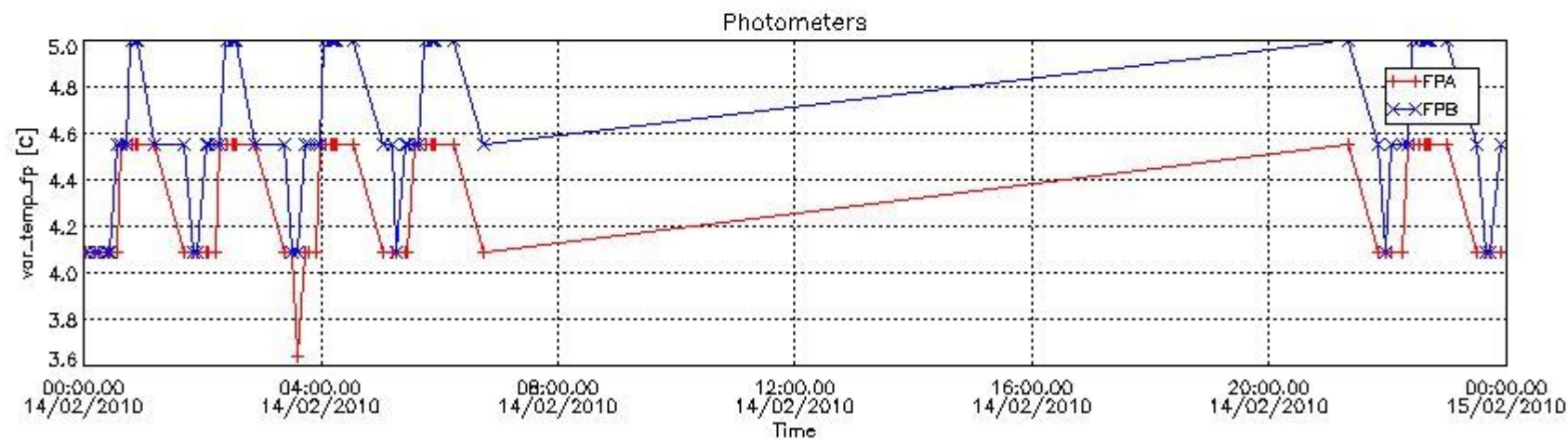
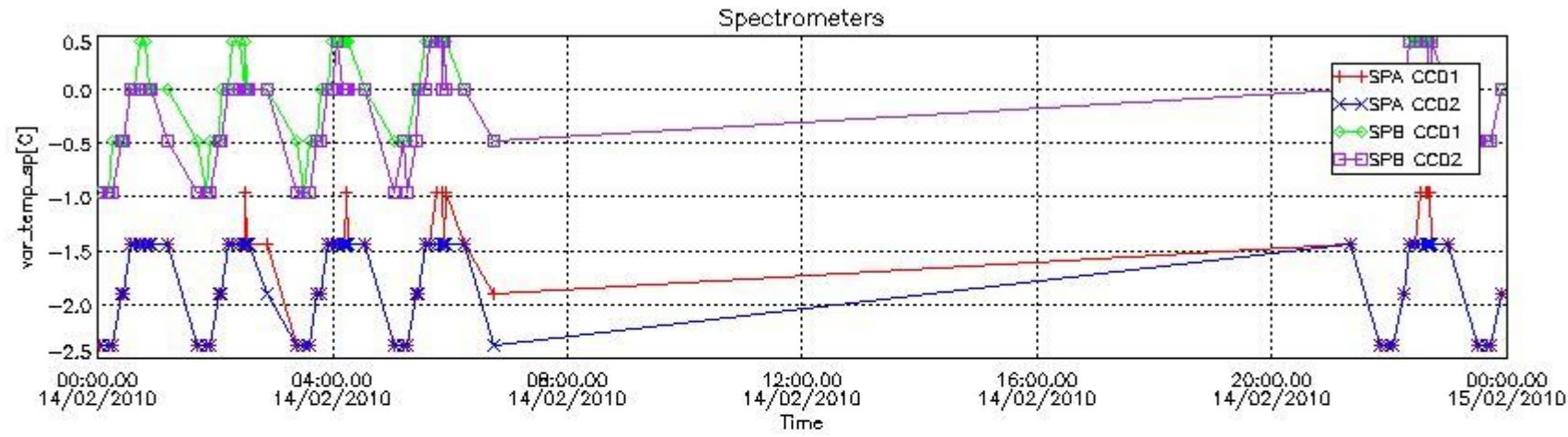
14-FEB-2010 20:28:55	17ZetAql	168	41622
14-FEB-2010 20:42:53	20EpsSgr	38	41622
14-FEB-2010 20:46:17	TheSco	40	41622
14-FEB-2010 20:48:03	AlpAra	147	41622
14-FEB-2010 20:49:31	BetAra	141	41622
14-FEB-2010 20:53:25	BetTrA	134	41623
14-FEB-2010 21:06:11	KapVel	91	41623
14-FEB-2010 21:09:29	LamVel	65	41623
14-FEB-2010 21:30:17	78BetGem	17	41623
14-FEB-2010 21:47:40	1AlpUMi	49	41623
14-FEB-2010 22:00:21	18DelCyg	144	41623
14-FEB-2010 22:09:32	17ZetAql	168	41623
14-FEB-2010 22:23:30	20EpsSgr	38	41623
14-FEB-2010 22:26:54	TheSco	40	41623
14-FEB-2010 22:28:40	AlpAra	147	41623
14-FEB-2010 22:30:07	BetAra	141	41623
14-FEB-2010 22:34:01	BetTrA	134	41624
14-FEB-2010 22:46:47	KapVel	91	41624
14-FEB-2010 22:50:06	LamVel	65	41624
14-FEB-2010 23:10:53	78BetGem	17	41624
14-FEB-2010 23:28:16	1AlpUMi	49	41624
14-FEB-2010 23:40:57	18DelCyg	144	41624
14-FEB-2010 23:50:08	17ZetAql	168	41624

#### 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_1PNPDE20100214_000157_000000442086_00474_41610_0720.N1	14-FEB-2010 00:01:57	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	41610	No
2	GOM_TRA_1PNPDE20100214_001031_000000412086_00474_41610_0721.N1	14-FEB-2010 00:10:31	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	41610	No
3	GOM_TRA_1PNPDE20100214_001441_000000372086_00474_41610_0722.N1	14-FEB-2010 00:14:41	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	41610	No
4	GOM_TRA_1PNPDE20100214_002339_000000472086_00474_41610_0723.N1	14-FEB-2010 00:23:39	Bright	46.500	59	55Alp Oph	2.0800	8900.0	93	41610	No
5	GOM_TRA_1PNPDE20100214_002554_000000502086_00474_41610_0724.N1	14-FEB-2010 00:25:54	Bright	50.000	126	60Bet Oph	2.7700	4250.0	100	41610	No
6	GOM_TRA_1PNPDE20100214_003309_000000482086_00474_41610_0740.N1	14-FEB-2010 00:33:09	Dark	48.000	86	35Eta Oph	2.4300	10200.	96	41610	No
7	GOM_TRA_1PNPDE20100214_003735_000000452086_00474_41610_0741.N1	14-FEB-2010 00:37:35	Dark	45.000	25	35Lam Sco	1.6200	28000.	90	41610	No
8	GOM_TRA_1PNPDE20100214_004405_000000462086_00475_41611_0742.N1	14-FEB-2010 00:44:05	Dark	45.500	131	Gam Lup	2.8000	26000.	91	41611	No
9	GOM_TRA_1PNPDE20100214_004931_000000422086_00475_41611_0743.N1	14-FEB-2010 00:49:31	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41611	No
10	GOM_TRA_1PNPDE20100214_005238_000000412086_00475_41611_0744.N1	14-FEB-2010 00:52:38	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	41611	No
11	GOM_TRA_1PNPDE20100214_005411_000000472086_00475_41611_0745.N1	14-FEB-2010 00:54:11	Dark	47.000	64	Gam Cen	2.2000	10600.	94	41611	No
12	GOM_TRA_1PNPDE20100214_011210_000000532086_00475_41611_0746.N1	14-FEB-2010 01:12:10	Straylight	53.000	48	30Alp Hya	1.9770	4100.0	106	41611	No
13	GOM_TRA_1PNPDE20100214_014233_000000372086_00475_41611_0747.N1	14-FEB-2010 01:42:33	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	41611	No
14	GOM_TRA_1PNPDE20100214_015107_000000402086_00475_41611_0748.N1	14-FEB-2010 01:51:07	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	41611	No
15	GOM_TRA_1PNPDE20100214_015517_000000362086_00475_41611_0749.N1	14-FEB-2010 01:55:17	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	41611	No
16	GOM_TRA_1PNPDE20100214_020415_000000492086_00475_41611_0750.N1	14-FEB-2010 02:04:15	Bright	48.500	59	55Alp Oph	2.0800	8900.0	97	41611	No
17	GOM_TRA_1PNPDE20100214_020630_000000472086_00475_41611_0751.N1	14-FEB-2010 02:06:30	Bright	46.500	126	60Bet Oph	2.7700	4250.0	93	41611	No
18	GOM_TRA_1PNPDE20100214_021345_000000482086_00475_41611_0760.N1	14-FEB-2010 02:13:45	Dark	47.500	86	35Eta Oph	2.4300	10200.	95	41611	No
19	GOM_TRA_1PNPDE20100214_021811_000000442086_00475_41611_0761.N1	14-FEB-2010 02:18:11	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	41611	No
20	GOM_TRA_1PNPDE20100214_022441_000000462086_00476_41612_0762.N1	14-FEB-2010 02:24:41	Dark	45.500	131	Gam Lup	2.8000	26000.	91	41612	No
21	GOM_TRA_1PNPDE20100214_023007_000000422086_00476_41612_0763.N1	14-FEB-2010 02:30:07	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41612	No
22	GOM_TRA_1PNPDE20100214_023125_000000432086_00476_41612_0764.N1	14-FEB-2010 02:31:25	Dark	43.000	77	Eps Cen	2.3030	28000.	86	41612	No
23	GOM_TRA_1PNPDE20100214_023314_000000482086_00476_41612_0765.N1	14-FEB-2010 02:33:14	Dark	48.000	12	Alp1Cru	0.77500	30000.	96	41612	No
24	GOM_TRA_1PNPDE20100214_023448_000000452086_00476_41612_0766.N1	14-FEB-2010 02:34:48	Dark	45.000	64	Gam Cen	2.2000	10600.	90	41612	No
25	GOM_TRA_1PNPDE20100214_025246_000000522086_00476_41612_0767.N1	14-FEB-2010 02:52:46	Straylight	51.500	48	30Alp Hya	1.9770	4100.0	103	41612	No
26	GOM_TRA_1PNPDE20100214_032309_000000412086_00476_41612_0768.N1	14-FEB-2010 03:23:09	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41612	No
27	GOM_TRA_1PNPDE20100214_033143_000000432086_00476_41612_0787.N1	14-FEB-2010 03:31:43	Bright	43.000	130	23Bet Dra	2.7990	5800.0	86	41612	No
28	GOM_TRA_1PNPDE20100214_033553_000000362086_00476_41612_0788.N1	14-FEB-2010 03:35:53	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	41612	No
29	GOM_TRA_1PNPDE20100214_034451_000000472086_00476_41612_0789.N1	14-FEB-2010 03:44:51	Bright	46.500	59	55Alp Oph	2.0800	8900.0	93	41612	No
30	GOM_TRA_1PNPDE20100214_034707_000000502086_00476_41612_0790.N1	14-FEB-2010 03:47:07	Bright	49.500	126	60Bet Oph	2.7700	4250.0	99	41612	No
31	GOM_TRA_1PNPDE20100214_035422_000000522086_00476_41612_0791.N1	14-FEB-2010 03:54:22	Dark	52.000	86	35Eta Oph	2.4300	10200.	104	41612	No

32	GOM_TRA_1PNPDE20100214_035847_000000472086_00476_41612_0792.N1	14-FEB-2010 03:58:47	Dark	46.500	25	35Lam Sco	1.6200	28000.	93	41612	No
33	GOM_TRA_1PNPDE20100214_040519_000000452086_00477_41613_0793.N1	14-FEB-2010 04:05:19	Dark	45.000	131	Gam Lup	2.8000	26000.	90	41613	No
34	GOM_TRA_1PNPDE20100214_041044_000000422086_00477_41613_0794.N1	14-FEB-2010 04:10:44	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41613	No
35	GOM_TRA_1PNPDE20100214_041202_000000442086_00477_41613_0795.N1	14-FEB-2010 04:12:02	Dark	44.000	77	Eps Cen	2.3030	28000.	88	41613	No
36	GOM_TRA_1PNPDE20100214_041351_000000472086_00477_41613_0796.N1	14-FEB-2010 04:13:51	Dark	46.500	12	Alp1Cru	0.77500	30000.	93	41613	No
37	GOM_TRA_1PNPDE20100214_041525_000000472086_00477_41613_0797.N1	14-FEB-2010 04:15:25	Dark	46.500	64	Gam Cen	2.2000	10600.	93	41613	No
38	GOM_TRA_1PNPDE20100214_043322_000000512086_00477_41613_0798.N1	14-FEB-2010 04:33:22	Straylight	51.000	48	30Alp Hya	1.9770	4100.0	102	41613	No
39	GOM_TRA_1PNPDE20100214_050345_000000372086_00477_41613_0799.N1	14-FEB-2010 05:03:45	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	41613	No
40	GOM_TRA_1PNPDE20100214_051219_000000422086_00477_41613_0809.N1	14-FEB-2010 05:12:19	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	41613	No
41	GOM_TRA_1PNPDE20100214_051629_000000402086_00477_41613_0810.N1	14-FEB-2010 05:16:29	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	41613	No
42	GOM_TRA_1PNPDE20100214_052528_000000472086_00477_41613_0811.N1	14-FEB-2010 05:25:28	Bright	47.000	59	55Alp Oph	2.0800	8900.0	94	41613	No
43	GOM_TRA_1PNPDE20100214_052744_000000522086_00477_41613_0812.N1	14-FEB-2010 05:27:44	Bright	51.500	126	60Bet Oph	2.7700	4250.0	103	41613	No
44	GOM_TRA_1PNPDE20100214_053459_000000512086_00477_41613_0813.N1	14-FEB-2010 05:34:59	Dark	50.500	86	35Eta Oph	2.4300	10200.	101	41613	No
45	GOM_TRA_1PNPDE20100214_053924_000000492086_00477_41613_0814.N1	14-FEB-2010 05:39:24	Dark	49.000	25	35Lam Sco	1.6200	28000.	98	41613	No
46	GOM_TRA_1PNPDE20100214_054556_000000472086_00478_41614_0815.N1	14-FEB-2010 05:45:56	Dark	46.500	131	Gam Lup	2.8000	26000.	93	41614	No
47	GOM_TRA_1PNPDE20100214_055121_000000422086_00478_41614_0816.N1	14-FEB-2010 05:51:21	Dark	42.000	10	Bet Cen	0.61000	28000.	84	41614	No
48	GOM_TRA_1PNPDE20100214_055239_000000452086_00478_41614_0817.N1	14-FEB-2010 05:52:39	Dark	44.500	77	Eps Cen	2.3030	28000.	89	41614	No
49	GOM_TRA_1PNPDE20100214_055428_000000512086_00478_41614_0818.N1	14-FEB-2010 05:54:28	Dark	50.500	12	Alp1Cru	0.77500	30000.	101	41614	No
50	GOM_TRA_1PNPDE20100214_055602_000000462086_00478_41614_0819.N1	14-FEB-2010 05:56:02	Dark	46.000	64	Gam Cen	2.2000	10600.	92	41614	No
51	GOM_TRA_1PNPDE20100214_061358_000000512086_00478_41614_0820.N1	14-FEB-2010 06:13:58	Straylight	50.500	48	30Alp Hya	1.9770	4100.0	101	41614	No
52	GOM_TRA_1PNPDE20100214_064420_000000402086_00478_41614_0821.N1	14-FEB-2010 06:44:20	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	41614	No
53	GOM_TRA_1PNPDE20100214_211921_000000552086_00487_41623_0905.N1	14-FEB-2010 21:19:21	Straylight	54.500	48	30Alp Hya	1.9770	4100.0	109	41623	No
54	GOM_TRA_1PNPDE20100214_214940_000000422086_00487_41623_0906.N1	14-FEB-2010 21:49:40	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	41623	No
55	GOM_TRA_1PNPDE20100214_215817_000000372086_00487_41623_0907.N1	14-FEB-2010 21:58:17	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	41623	No
56	GOM_TRA_1PNPDE20100214_220230_000000362086_00487_41623_0908.N1	14-FEB-2010 22:02:30	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	41623	No
57	GOM_TRA_1PNPDE20100214_221348_000000502086_00487_41623_0909.N1	14-FEB-2010 22:13:48	Bright	50.000	126	60Bet Oph	2.7700	4250.0	100	41623	No
58	GOM_TRA_1PNPDE20100214_222107_000000482086_00487_41623_0925.N1	14-FEB-2010 22:21:07	Dark	47.500	86	35Eta Oph	2.4300	10200.	95	41623	No
59	GOM_TRA_1PNPDE20100214_222529_000000432086_00487_41623_0926.N1	14-FEB-2010 22:25:29	Dark	42.500	25	35Lam Sco	1.6200	28000.	85	41623	No
60	GOM_TRA_1PNPDE20100214_223205_000000472086_00488_41624_0927.N1	14-FEB-2010 22:32:05	Dark	46.500	131	Gam Lup	2.8000	26000.	93	41624	No
61	GOM_TRA_1PNPDE20100214_223726_000000442086_00488_41624_0928.N1	14-FEB-2010 22:37:26	Dark	44.000	10	Bet Cen	0.61000	28000.	88	41624	No
62	GOM_TRA_1PNPDE20100214_223846_000000462086_00488_41624_0929.N1	14-FEB-2010 22:38:46	Dark	45.500	77	Eps Cen	2.3030	28000.	91	41624	No
63	GOM_TRA_1PNPDE20100214_224031_000000432086_00488_41624_0930.N1	14-FEB-2010 22:40:31	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	41624	No
64	GOM_TRA_1PNPDE20100214_224208_000000472086_00488_41624_0931.N1	14-FEB-2010 22:42:08	Dark	46.500	64	Gam Cen	2.2000	10600.	93	41624	No
65	GOM_TRA_1PNPDE20100214_225957_000000502086_00488_41624_0932.N1	14-FEB-2010 22:59:57	Straylight	49.500	48	30Alp Hya	1.9770	4100.0	99	41624	No
66	GOM_TRA_1PNPDE20100214_233016_000000432086_00488_41624_0933.N1	14-FEB-2010 23:30:16	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	41624	No
67	GOM_TRA_1PNPDE20100214_233852_000000422086_00488_41624_0934.N1	14-FEB-2010 23:38:52	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	41624	No
68	GOM_TRA_1PNPDE20100214_234306_000000382086_00488_41624_0935.N1	14-FEB-2010 23:43:06	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	41624	No
69	GOM_TRA_1PNPDE20100214_235424_000000502086_00488_41624_0936.N1	14-FEB-2010 23:54:24	Bright	49.500	126	60Bet Oph	2.7700	4250.0	99	41624	No

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



#### 4. Overview of dark signal processing per product

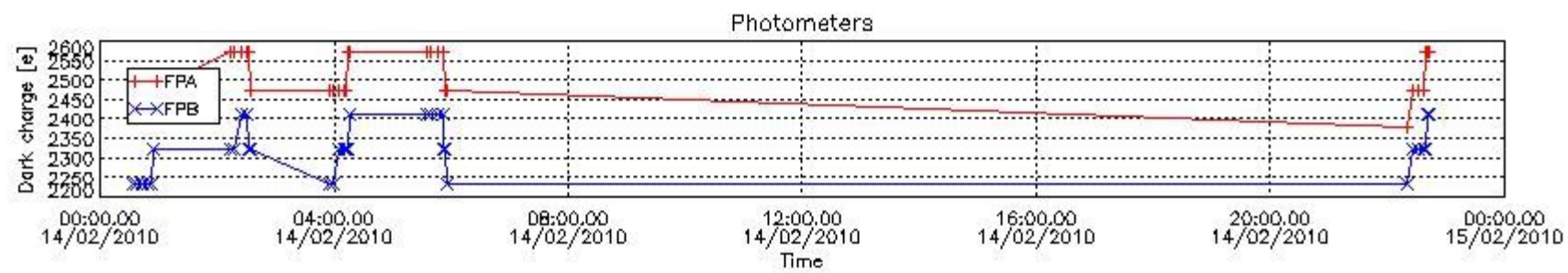
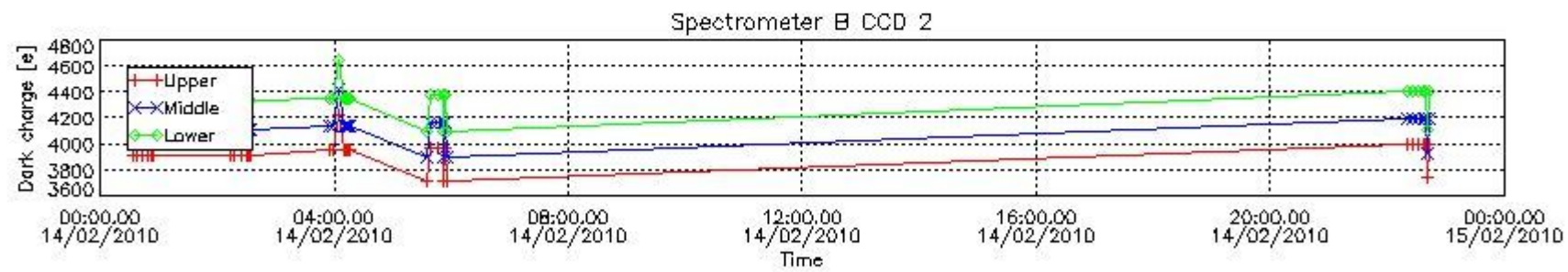
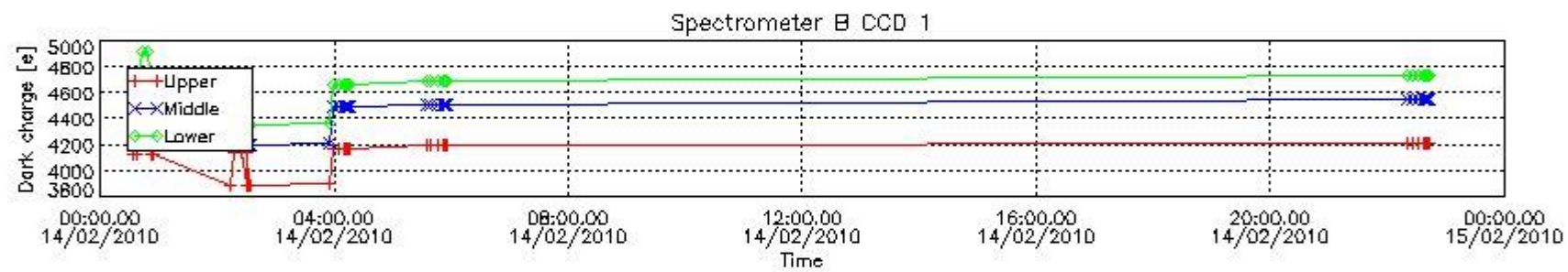
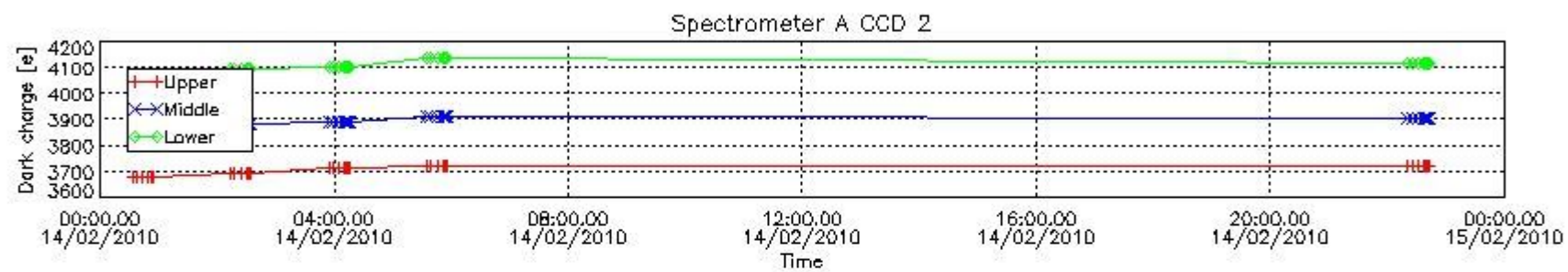
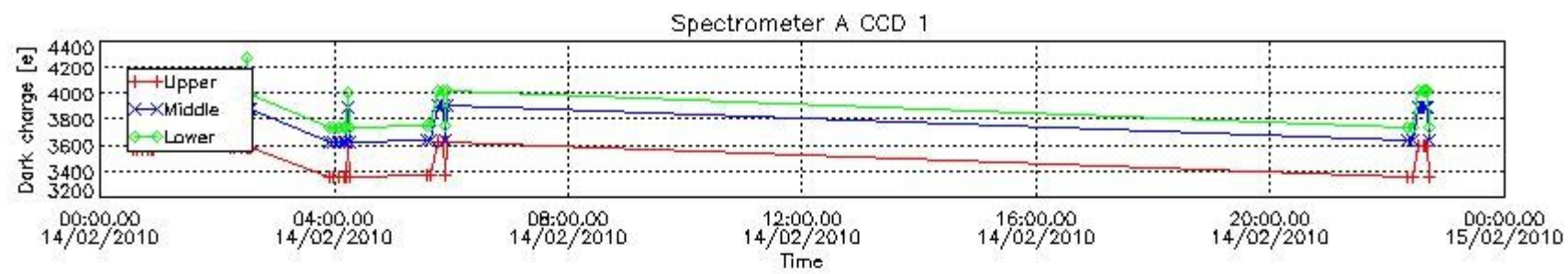
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100214_211921_000000552086_00487_41623_0905.N1	DC map used
GOM_TRA_1PNPDE20100214_214940_000000422086_00487_41623_0906.N1	DC map used
GOM_TRA_1PNPDE20100214_215817_000000372086_00487_41623_0907.N1	DC map used
GOM_TRA_1PNPDE20100214_220230_000000362086_00487_41623_0908.N1	DC map used
GOM_TRA_1PNPDE20100214_221348_000000502086_00487_41623_0909.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

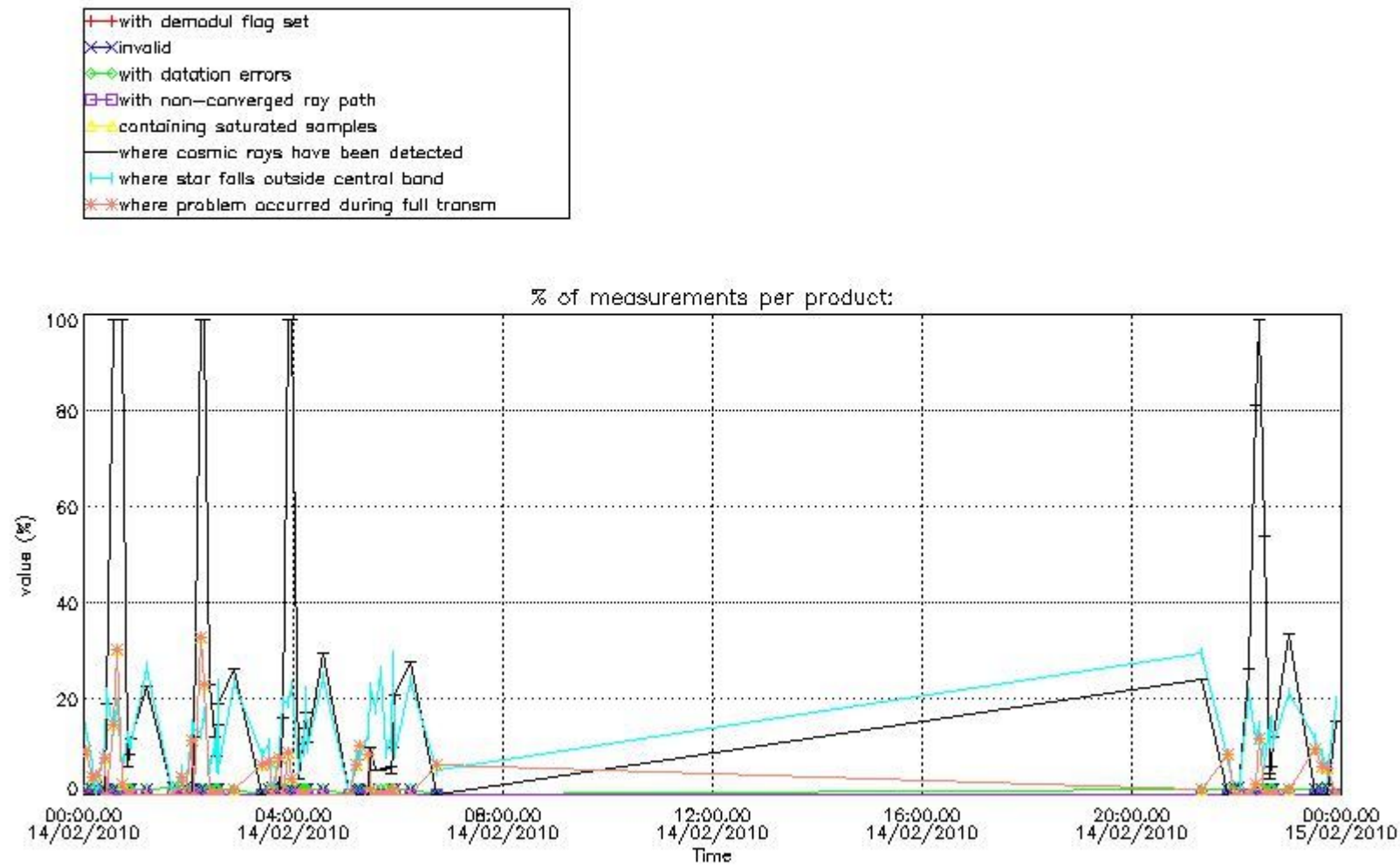
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:

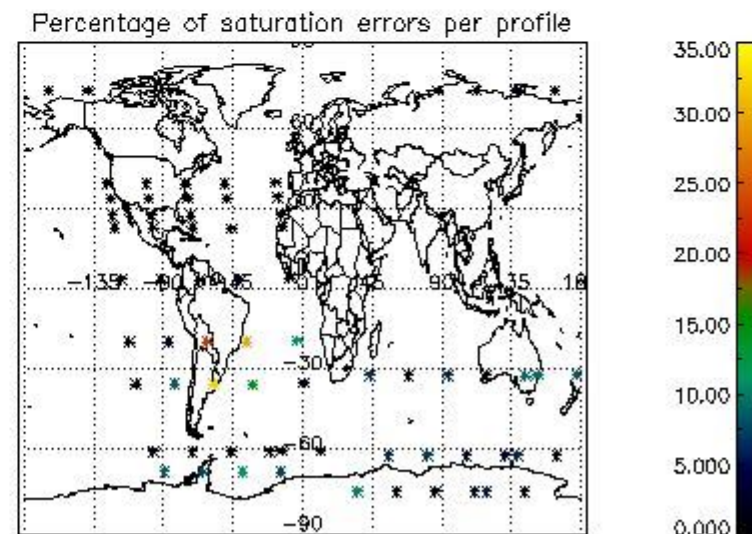
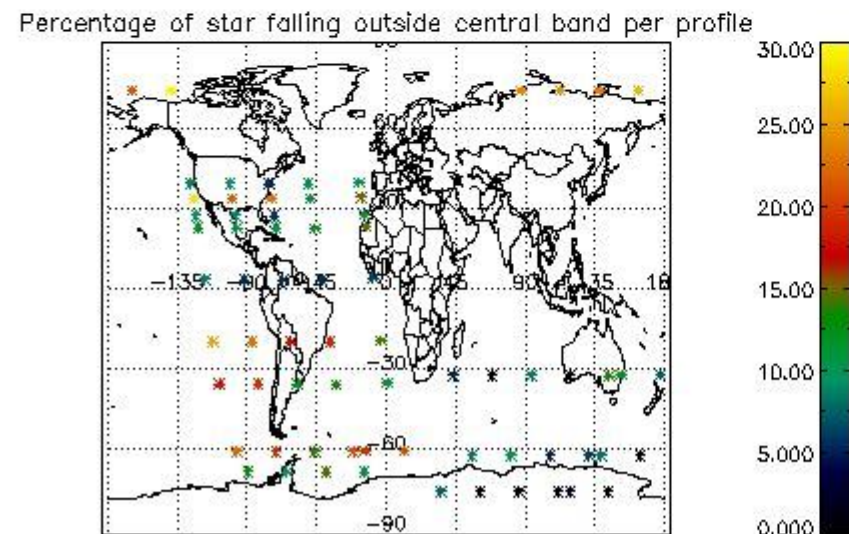
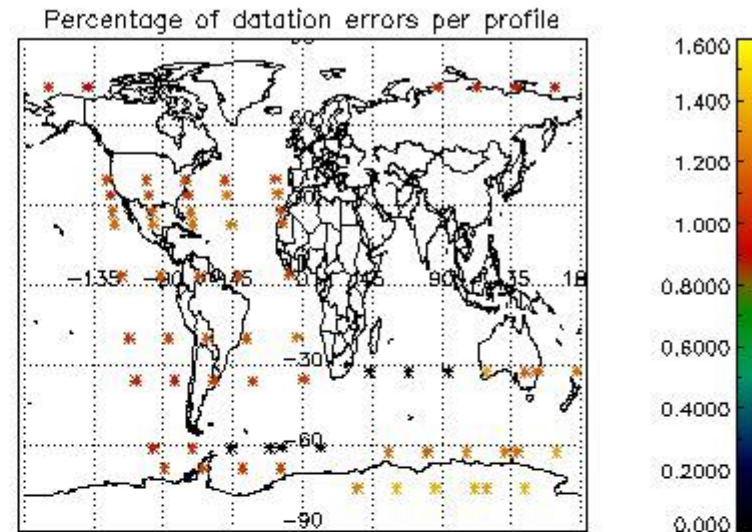
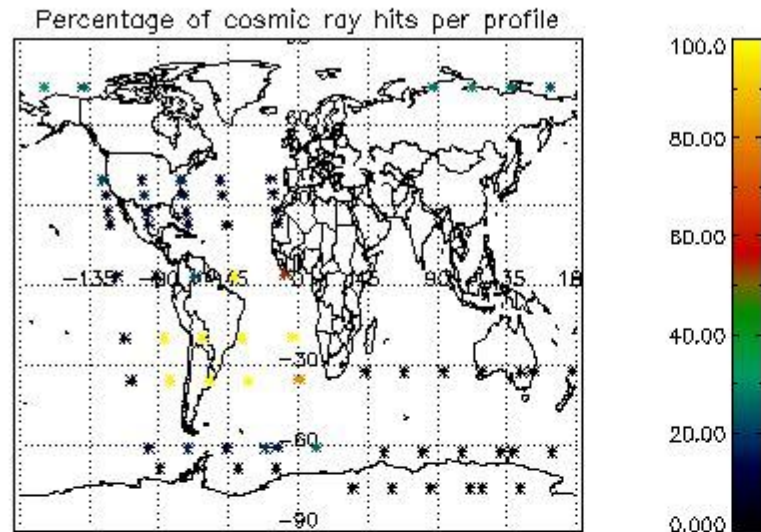


At least one measurement with demodulation flag set:	34.7826 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



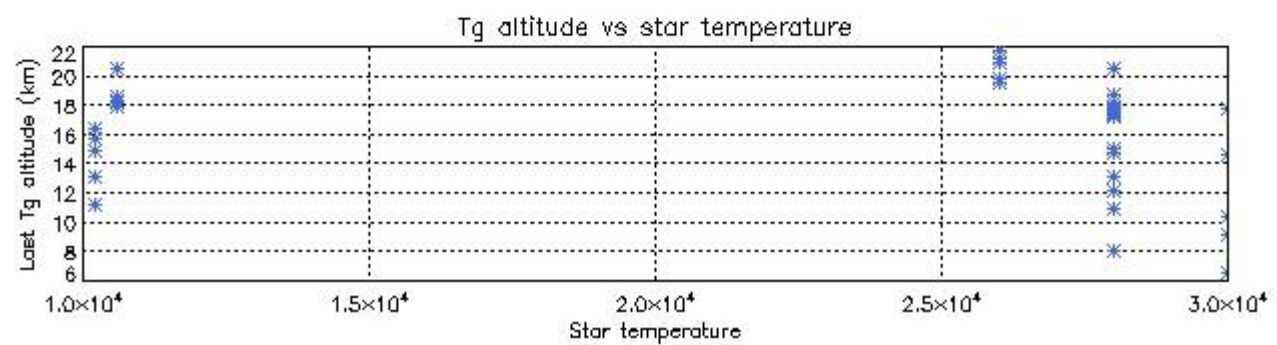
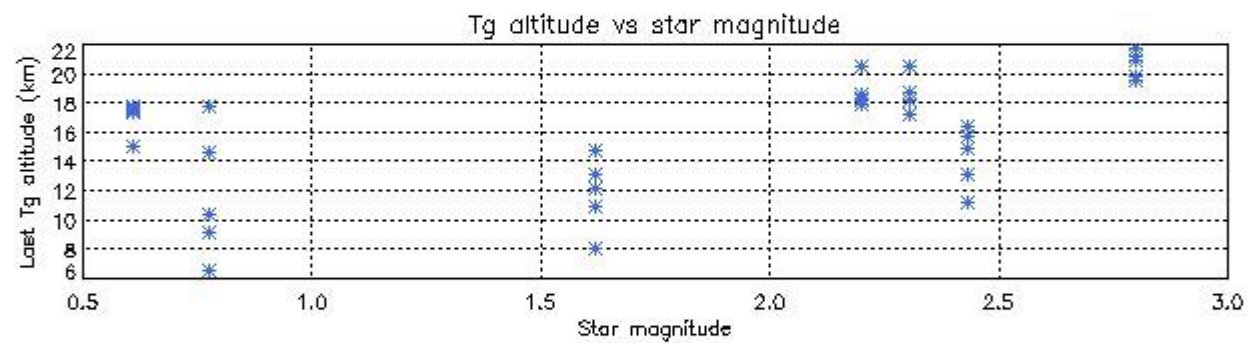
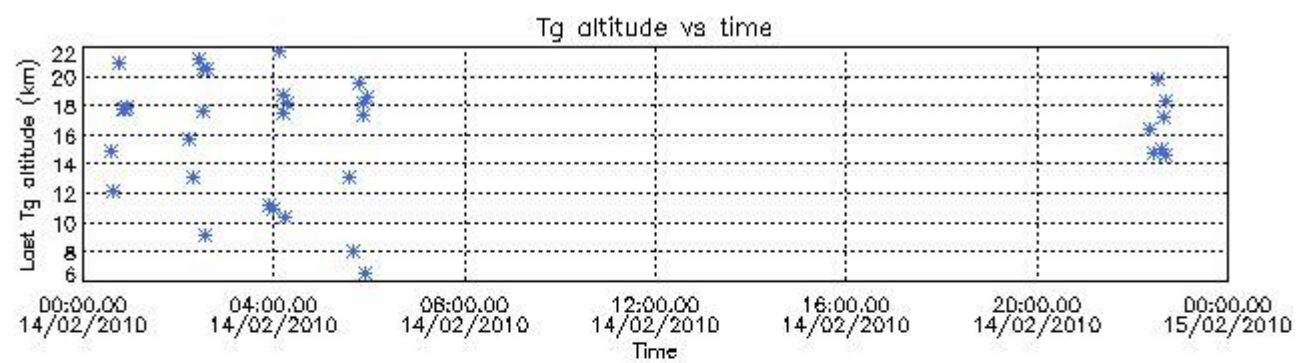
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.038	18.843	NaN
St. deviation:	3.9492	5.3103	NaN
Maximum:	21.676	29.075	NaN
Minimum:	6.5679	10.302	NaN
Number of data:	34.000	29.000	NaN

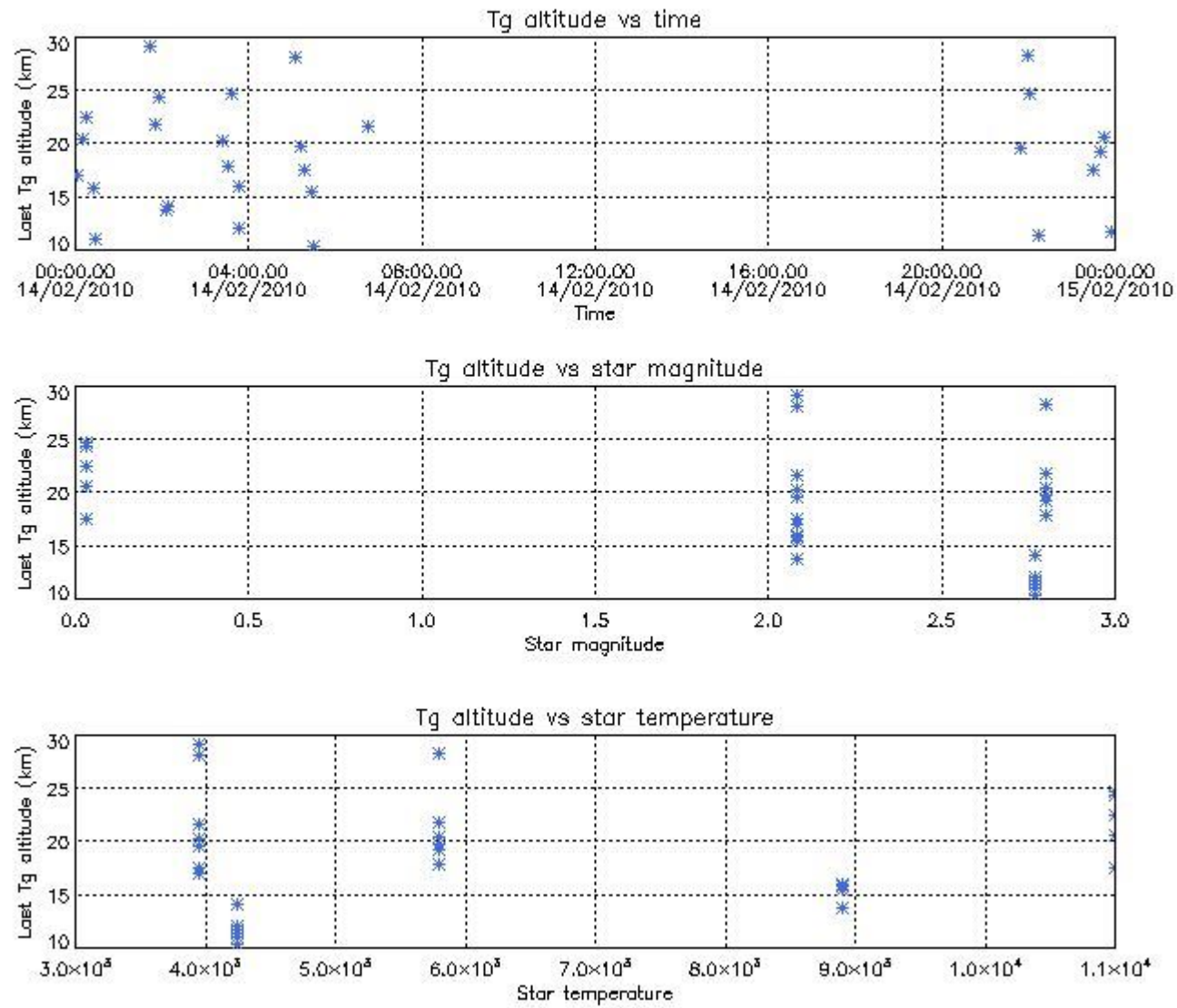
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

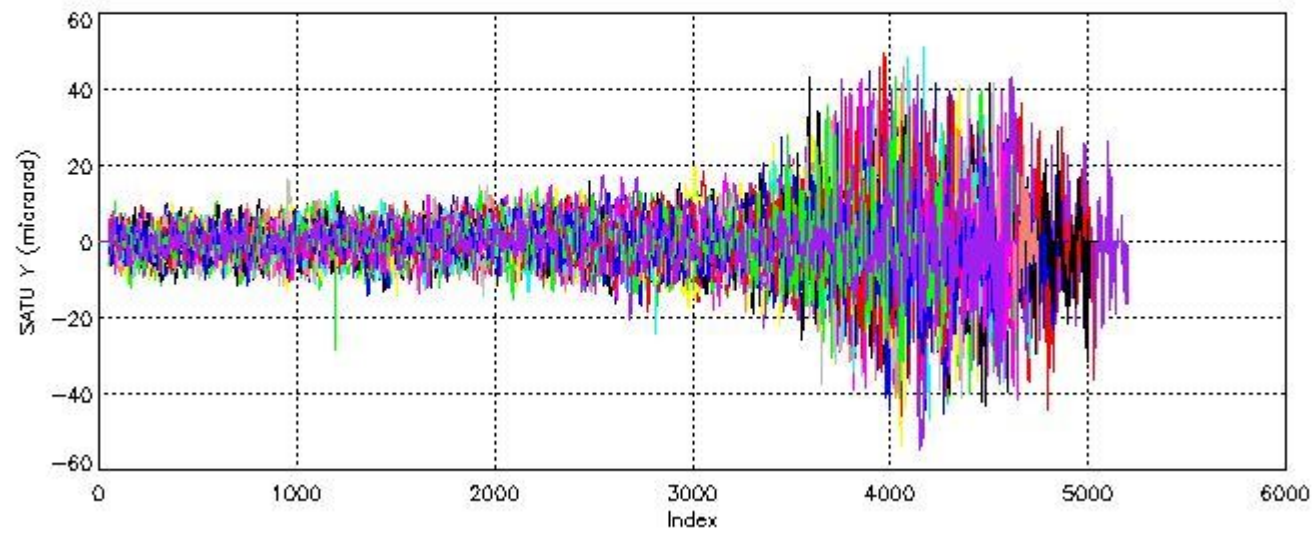
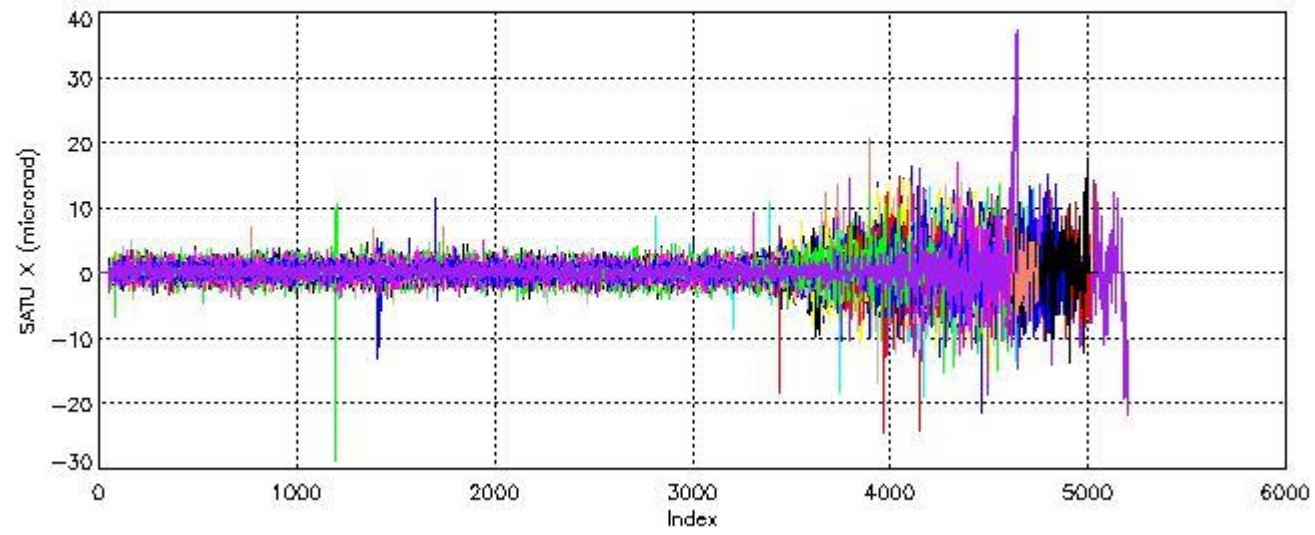


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.18530	-0.27048	0.16911	-0.030780
St. deviation:	0.64894	3.1331	0.46562	2.9972
Maximum:	7.3000	16.300	3.4000	11.200
Minimum:	-6.6000	-13.200	-2.6000	-12.200

Number of data:	34250.	34250.	27800.	27800.
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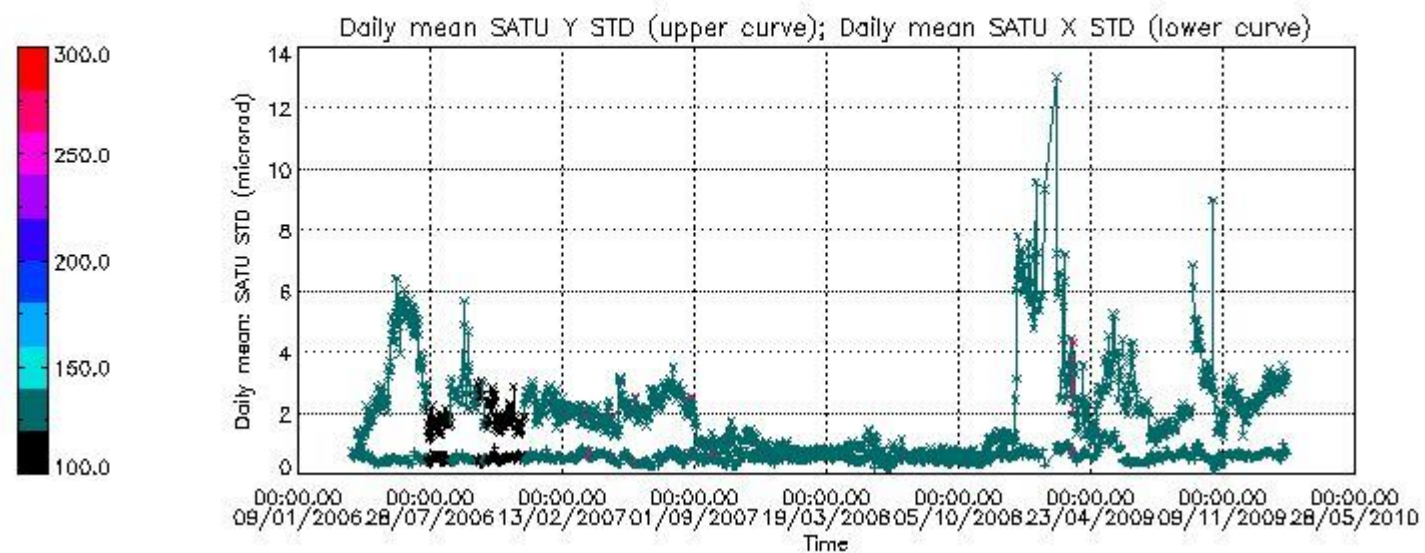
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

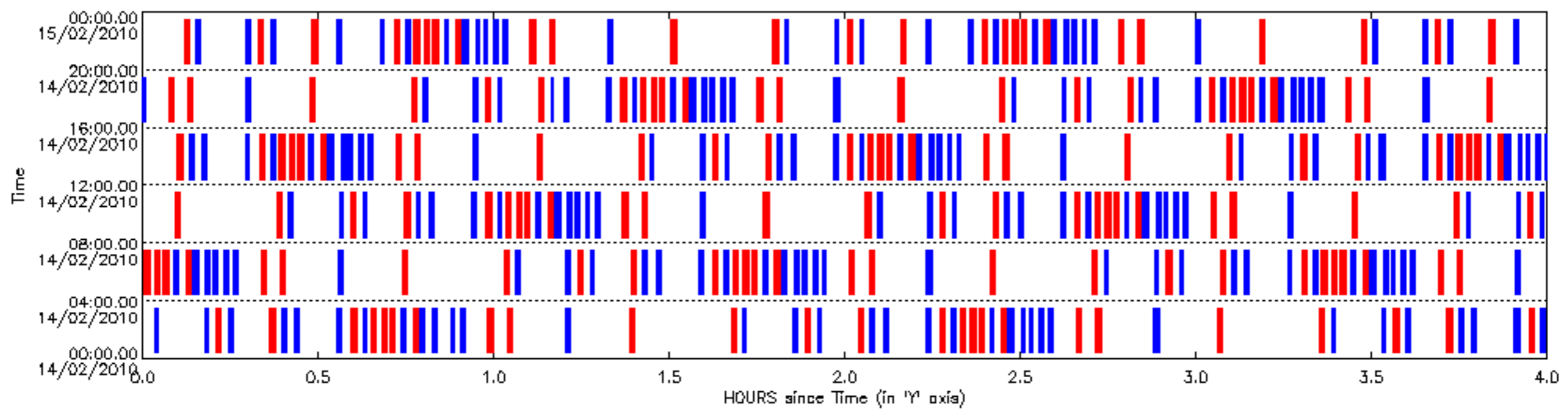
Lower curve: STD of SATU X axis

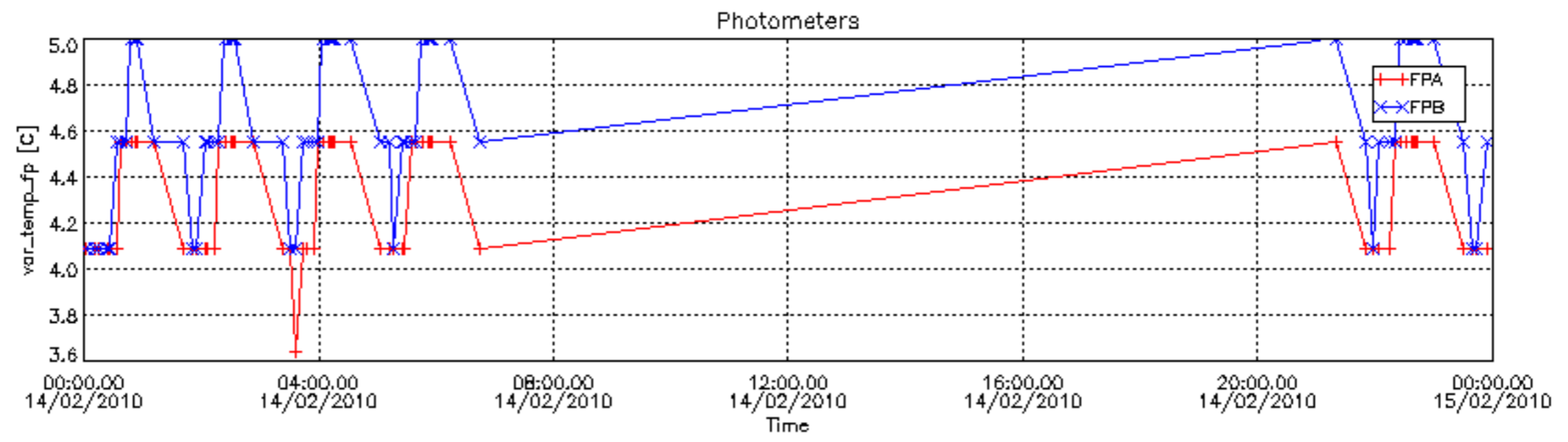
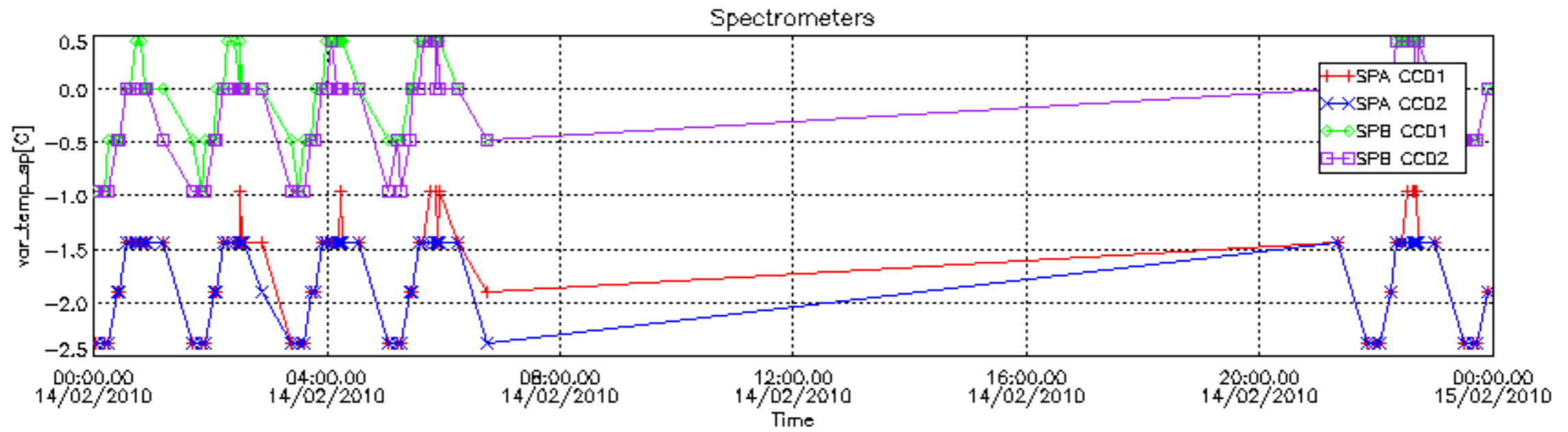


### 8. Auxiliary Data Files used for the production reported in section 2.4

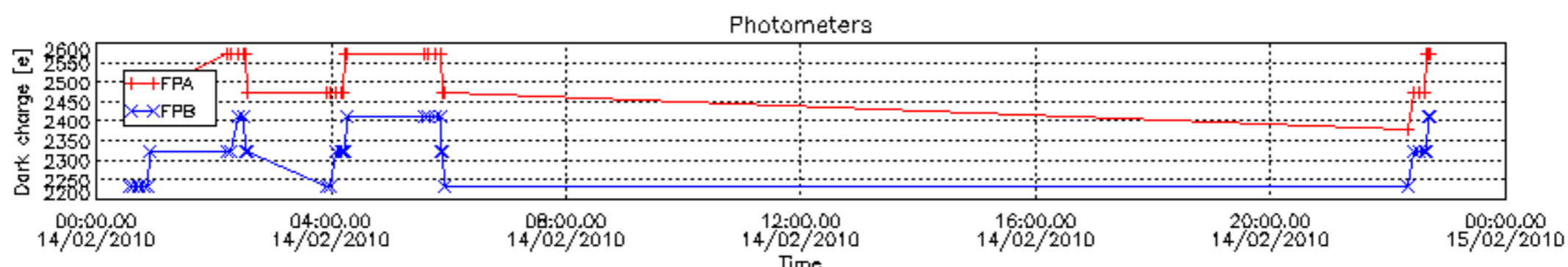
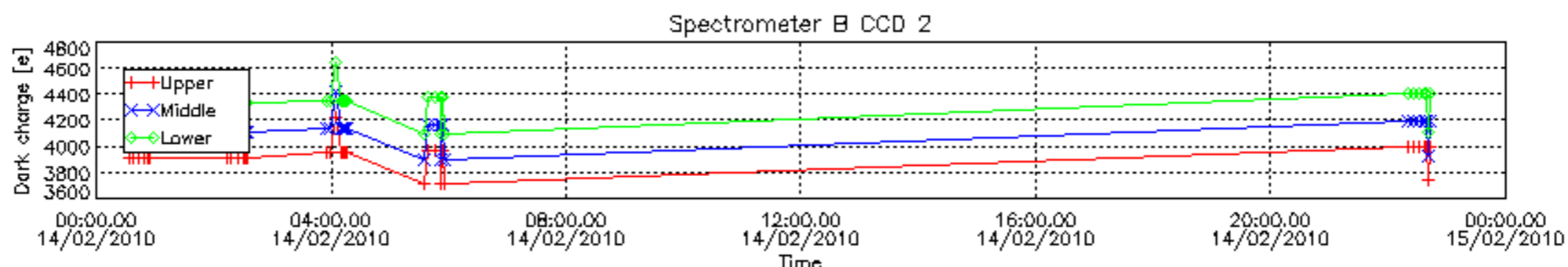
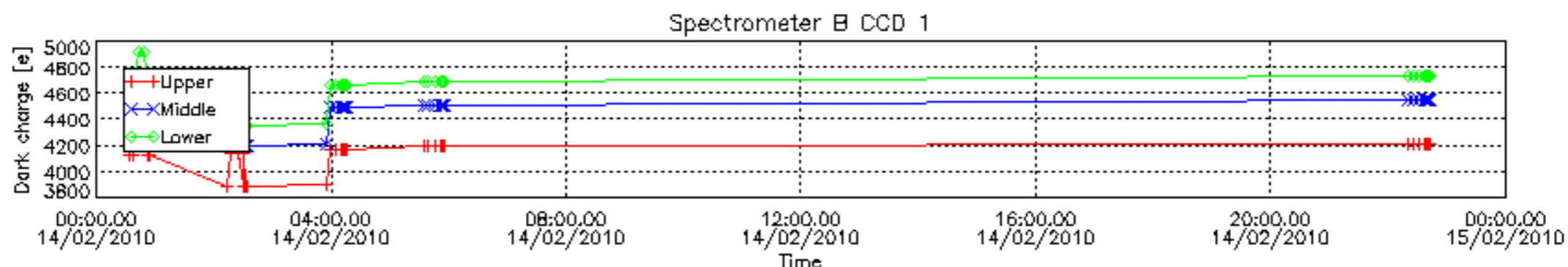
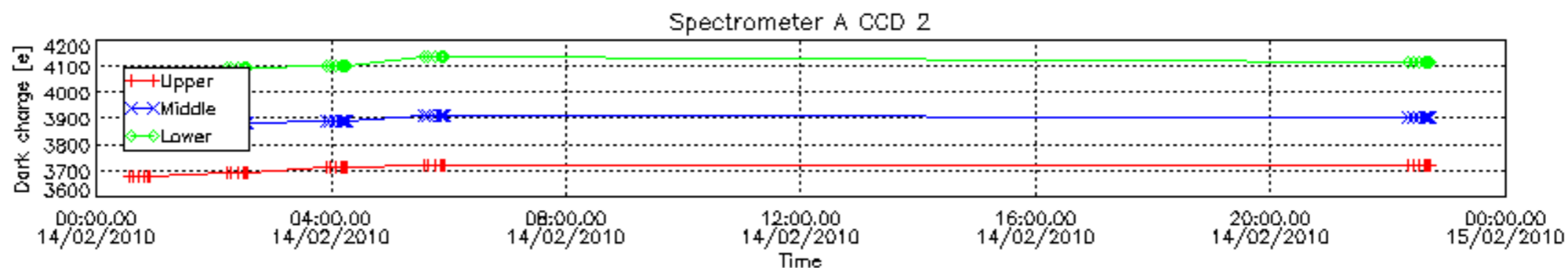
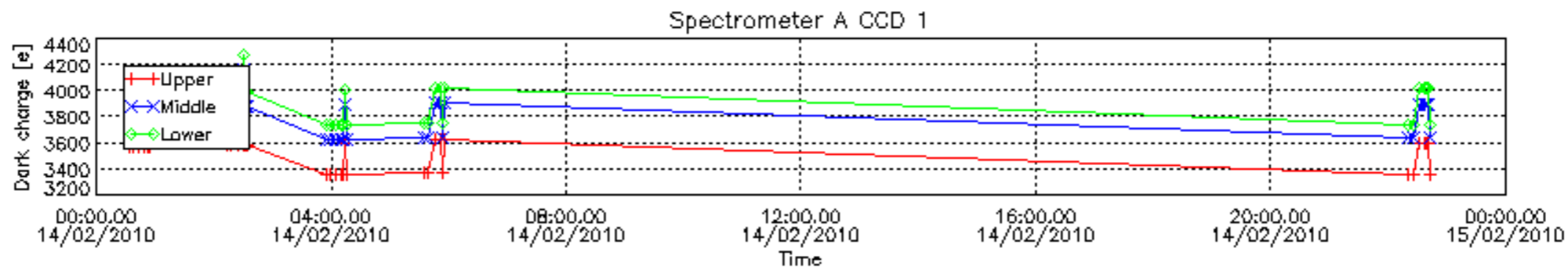
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

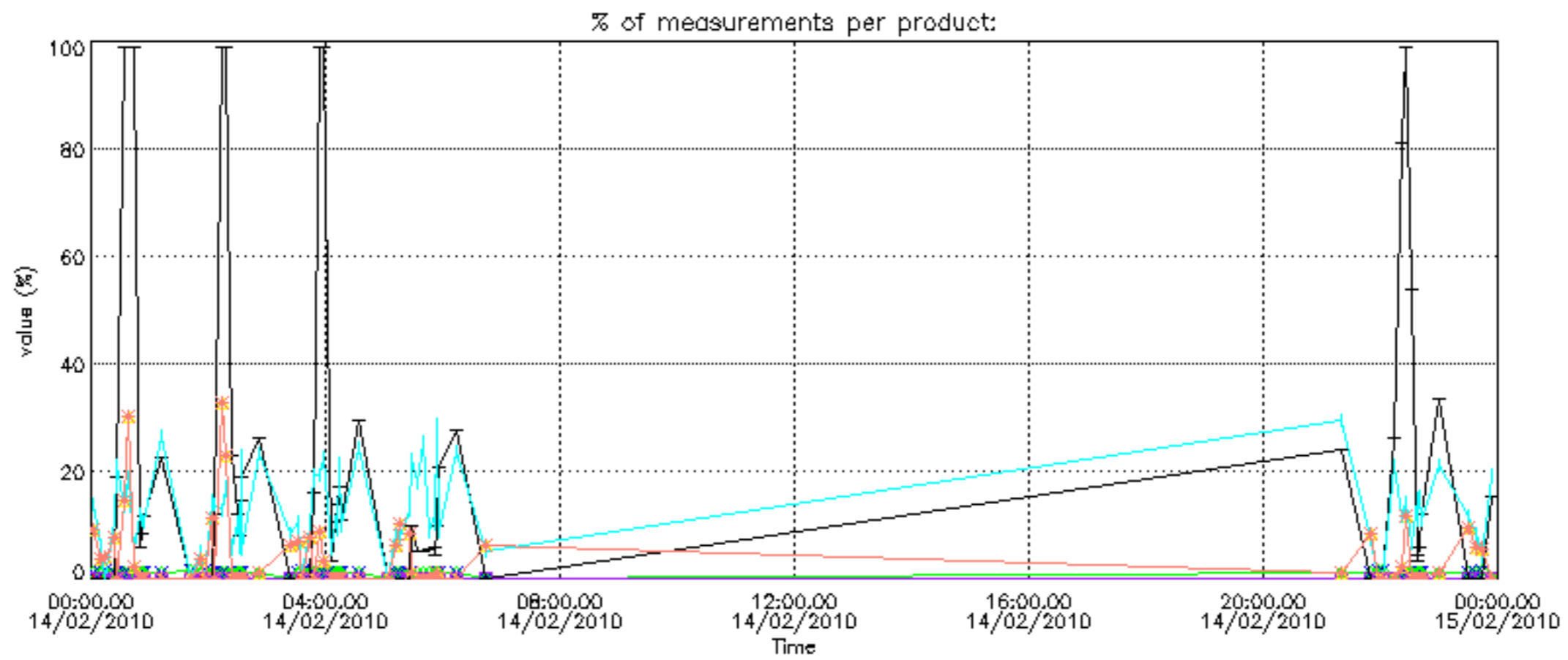
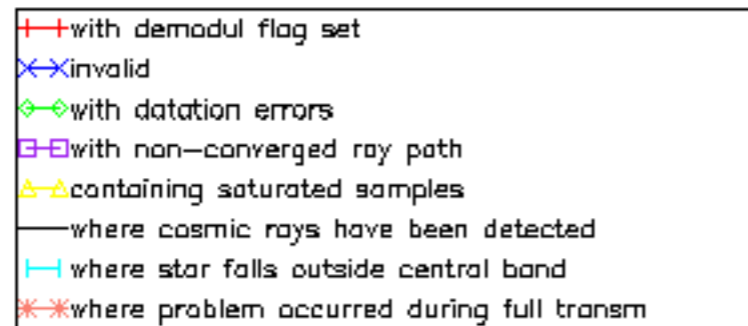
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-FEB-2010 00:01:57
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100210_103840_20100209_000000_20500101_000000	1	14-FEB-2010 00:01:57
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	14-FEB-2010 00:01:57
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-FEB-2010 00:01:57
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	14-FEB-2010 00:01:57
ECMWF_FILE	AUX_ECF_AXNECM20100213_062116_20100213_210000_20100214_090000	1	14-FEB-2010 00:01:57
ECMWF_FILE	AUX_ECF_AXNECM20100213_180115_20100214_030000_20100214_150000	27	14-FEB-2010 03:31:43
ECMWF_FILE	AUX_ECA_AXNECM20100214_060113_20100213_210000_20100214_090000	40	14-FEB-2010 05:12:19
ECMWF_FILE	AUX_ECF_AXNECM20100214_062114_20100214_210000_20100215_090000	53	14-FEB-2010 21:19:21
OPTIONAL_ECMWF_FILE	MISSING	1	14-FEB-2010 00:01:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100213_224648_000057382086_00473_41609_9759.N1	1	14-FEB-2010 00:01:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100214_002745_000057382086_00474_41610_9760.N1	6	14-FEB-2010 00:33:09
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100213_230114_20100213_194123_20100223_210735	18	14-FEB-2010 02:13:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100214_210543_000038252086_00487_41623_9764.N1	53	14-FEB-2010 21:19:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100214_221447_000057382086_00487_41623_9765.N1	58	14-FEB-2010 22:21:07



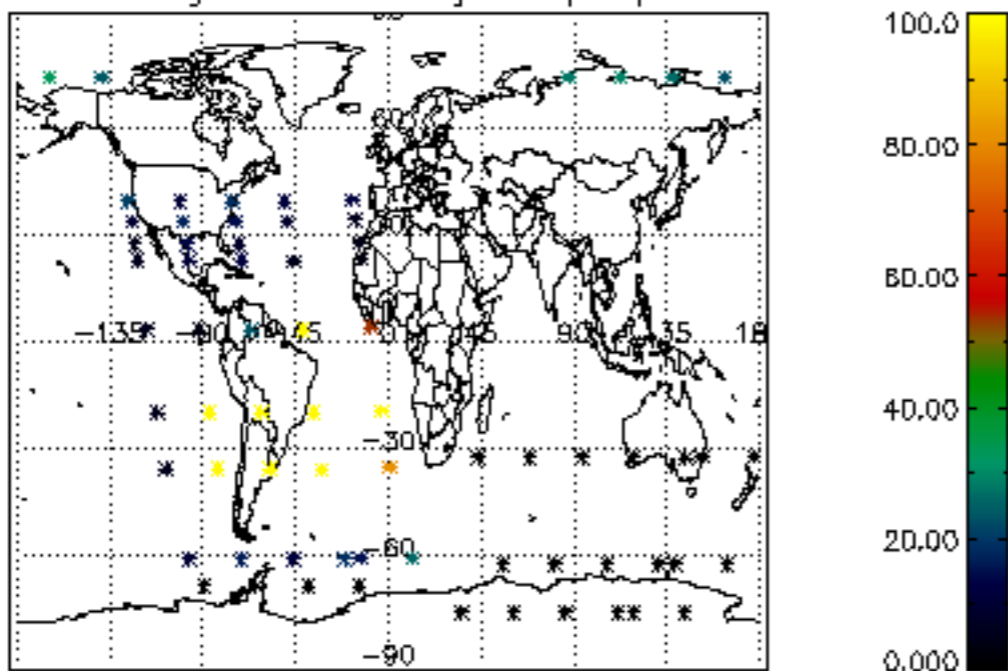




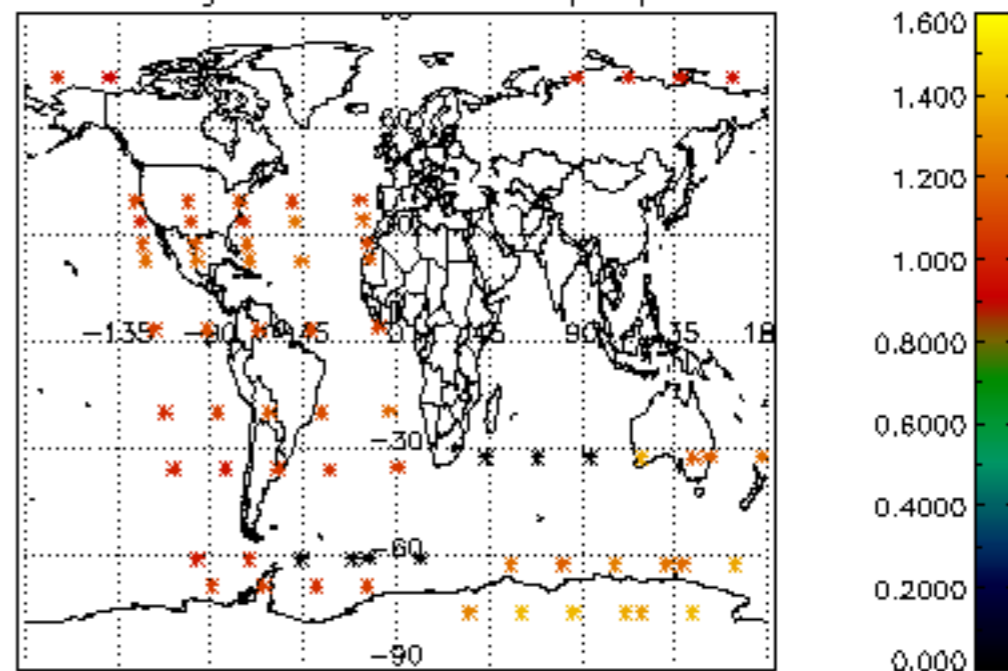




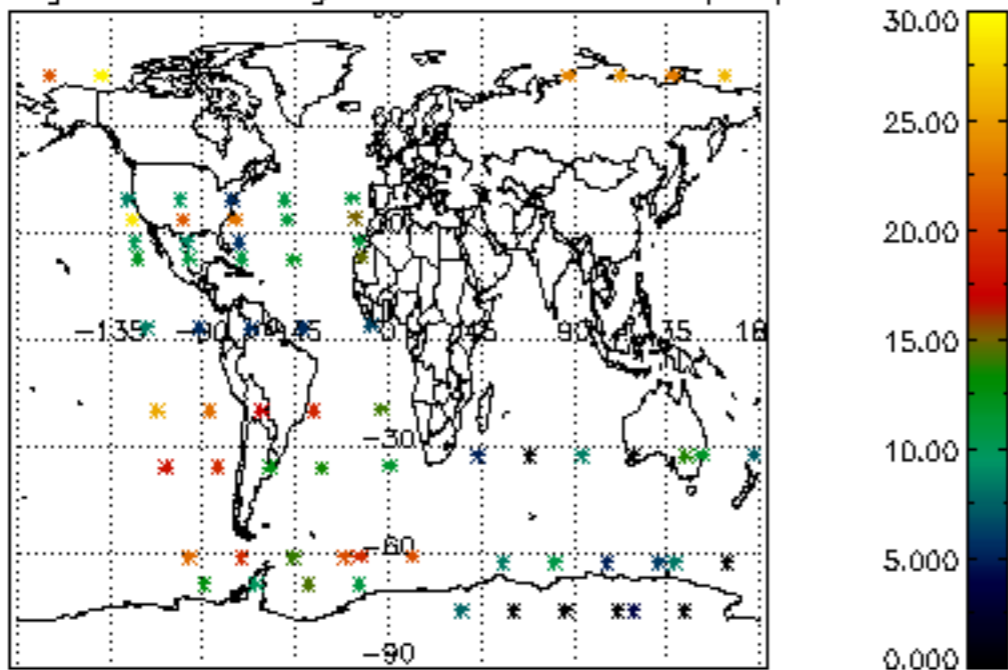
Percentage of cosmic ray hits per profile



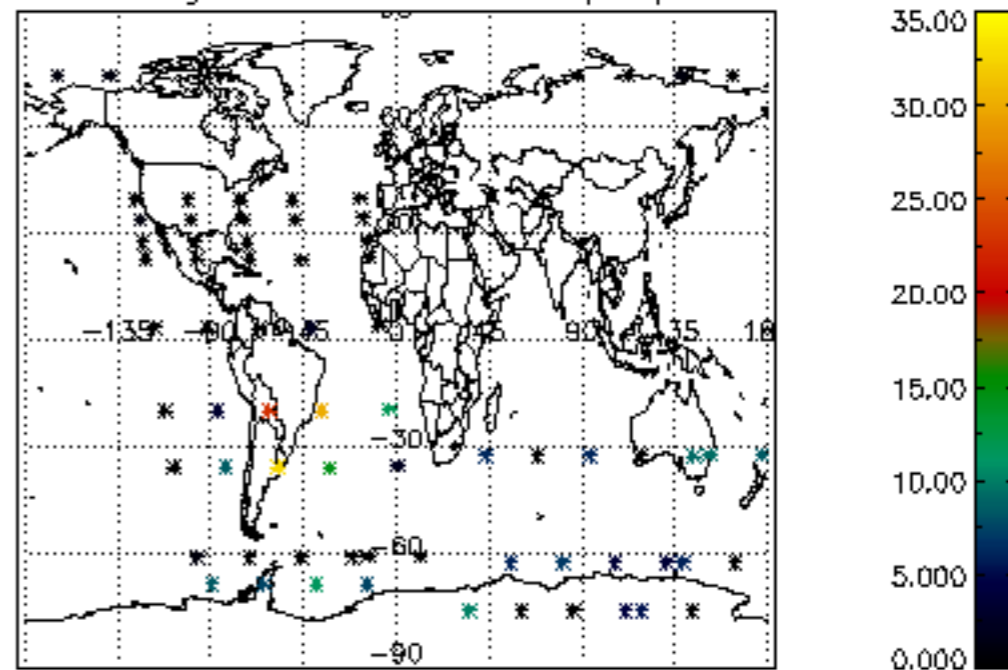
Percentage of datation errors per profile



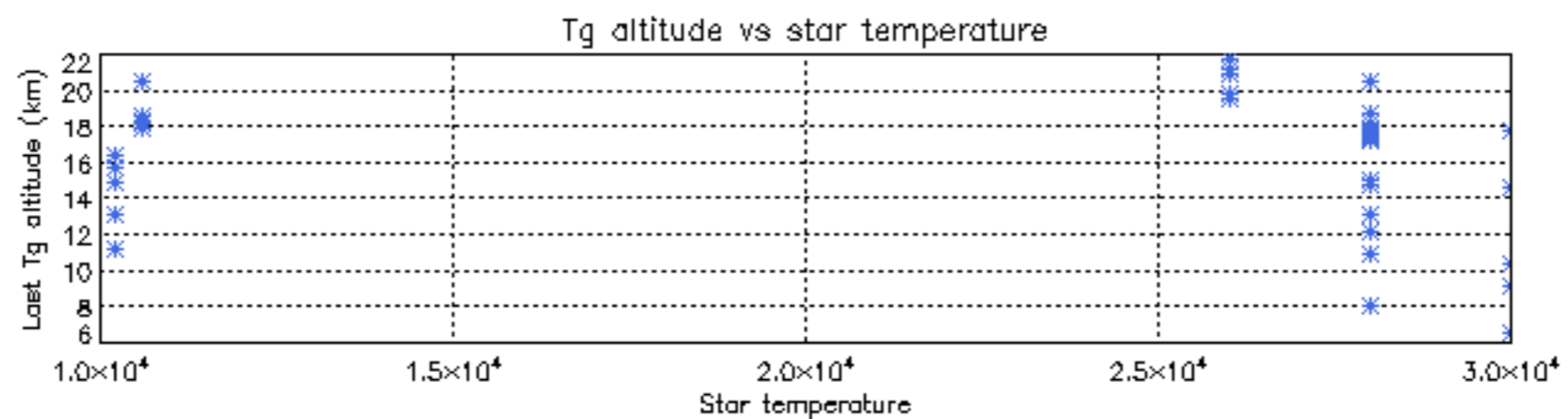
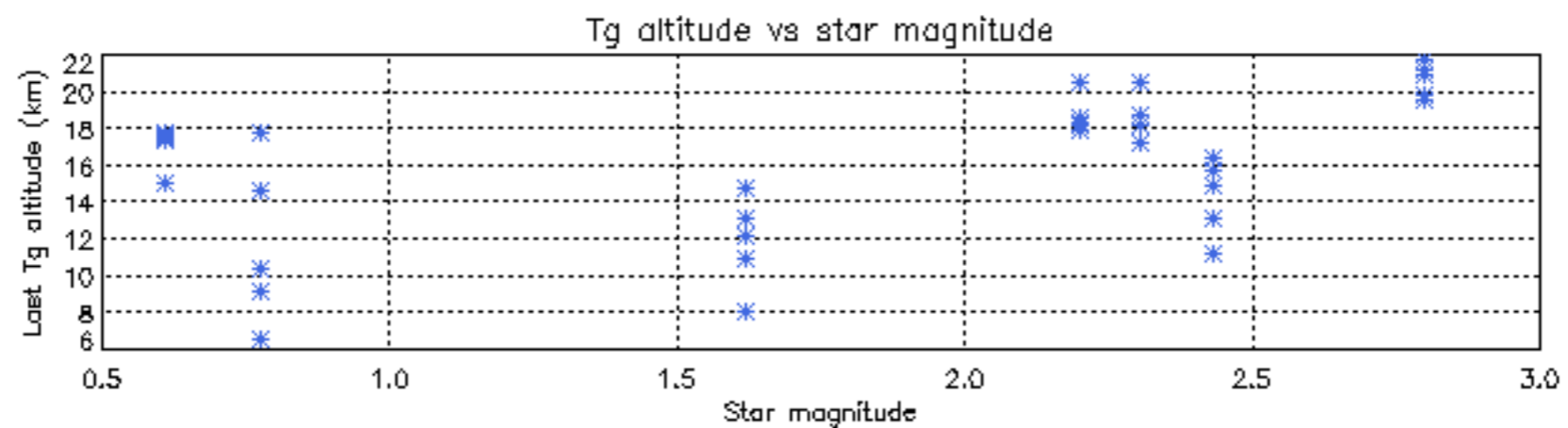
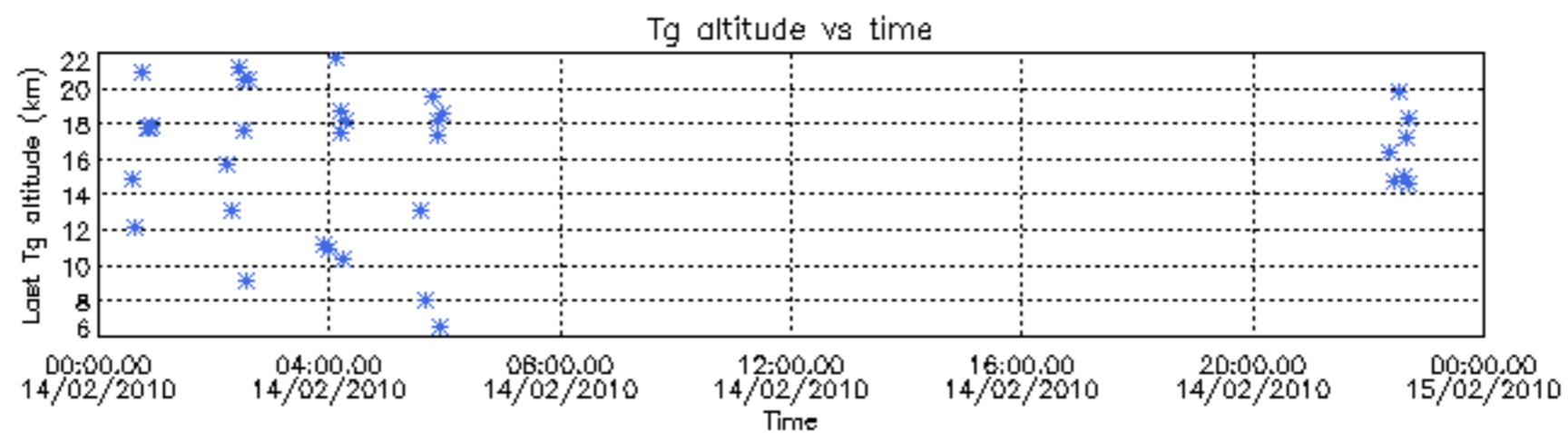
Percentage of star falling outside central band per profile



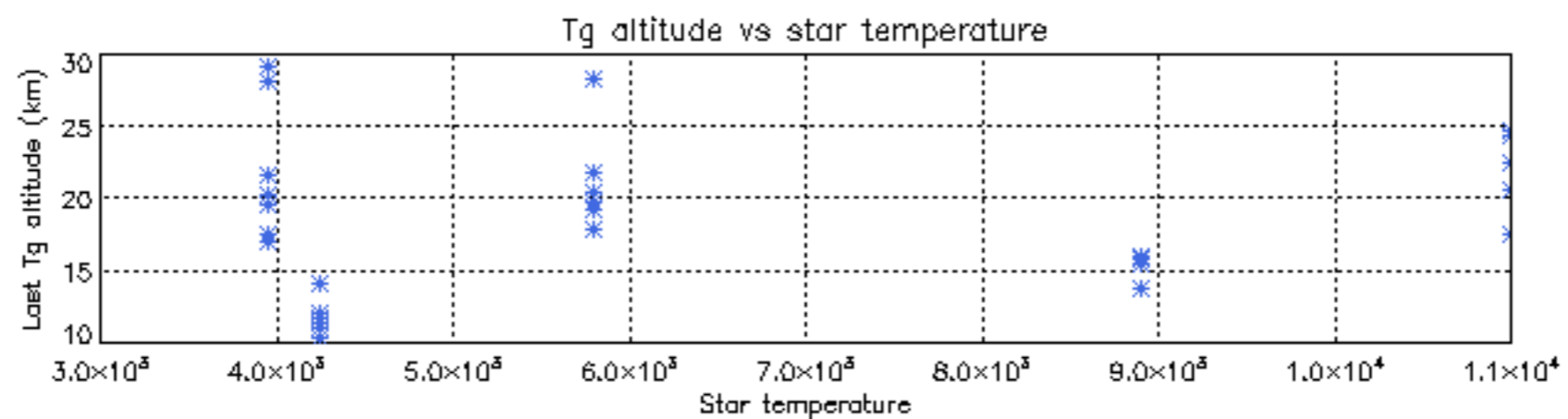
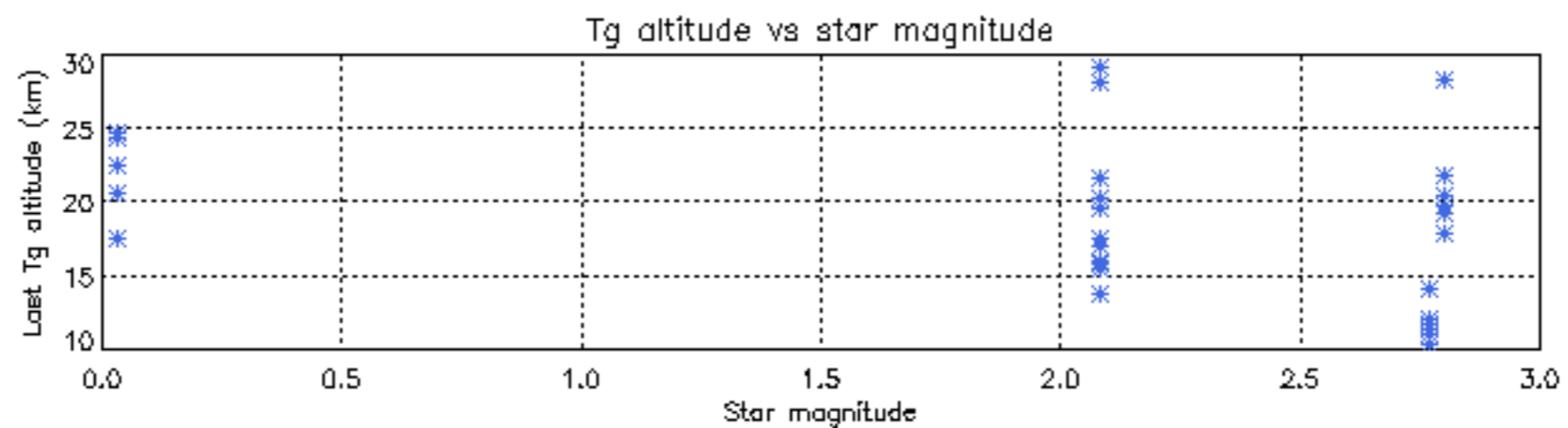
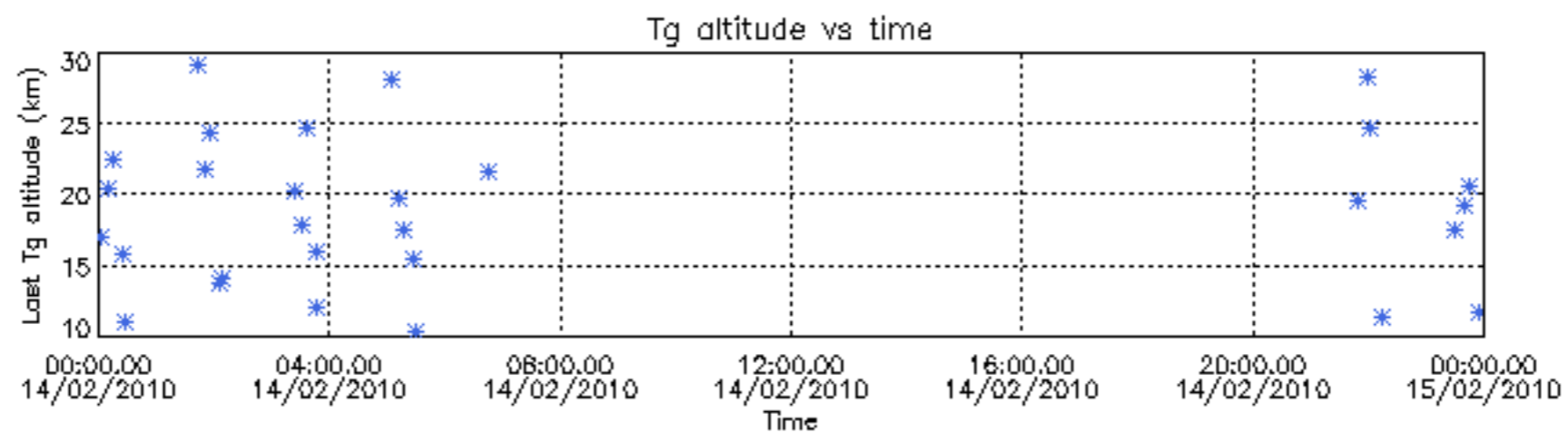
Percentage of saturation errors per profile

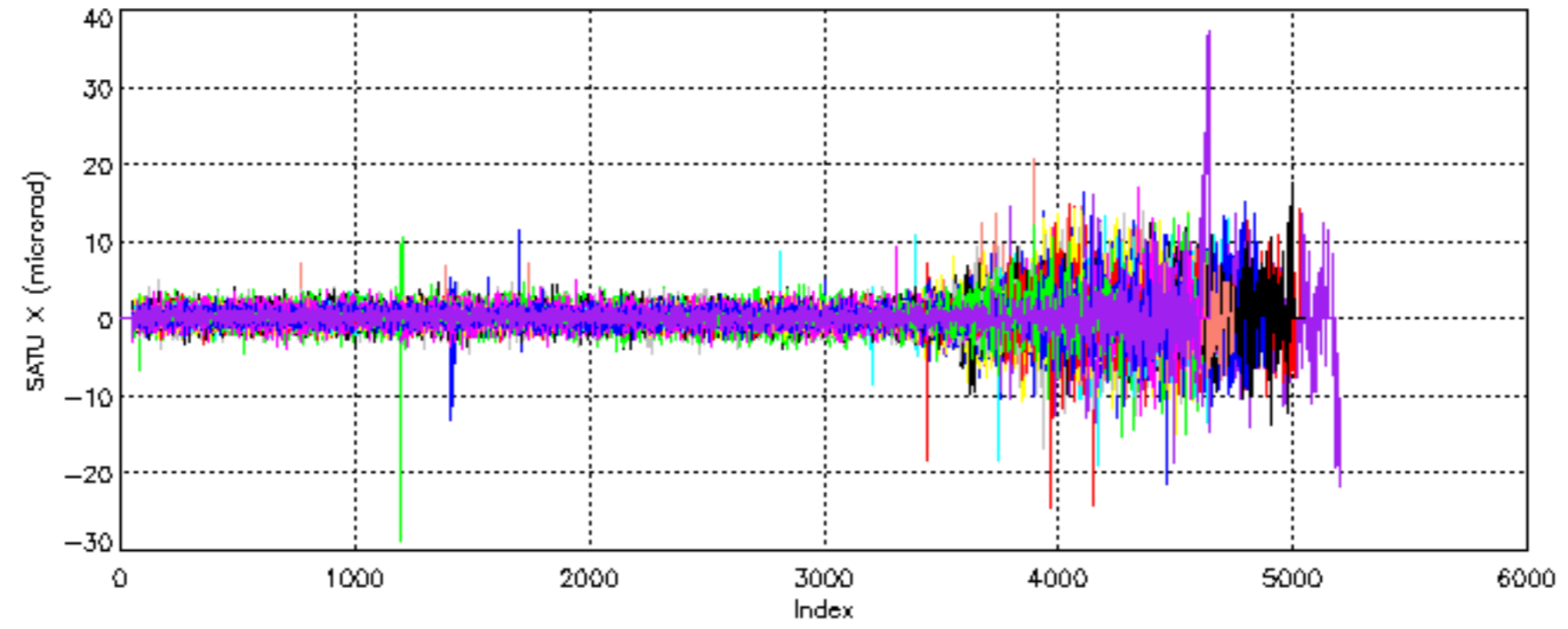


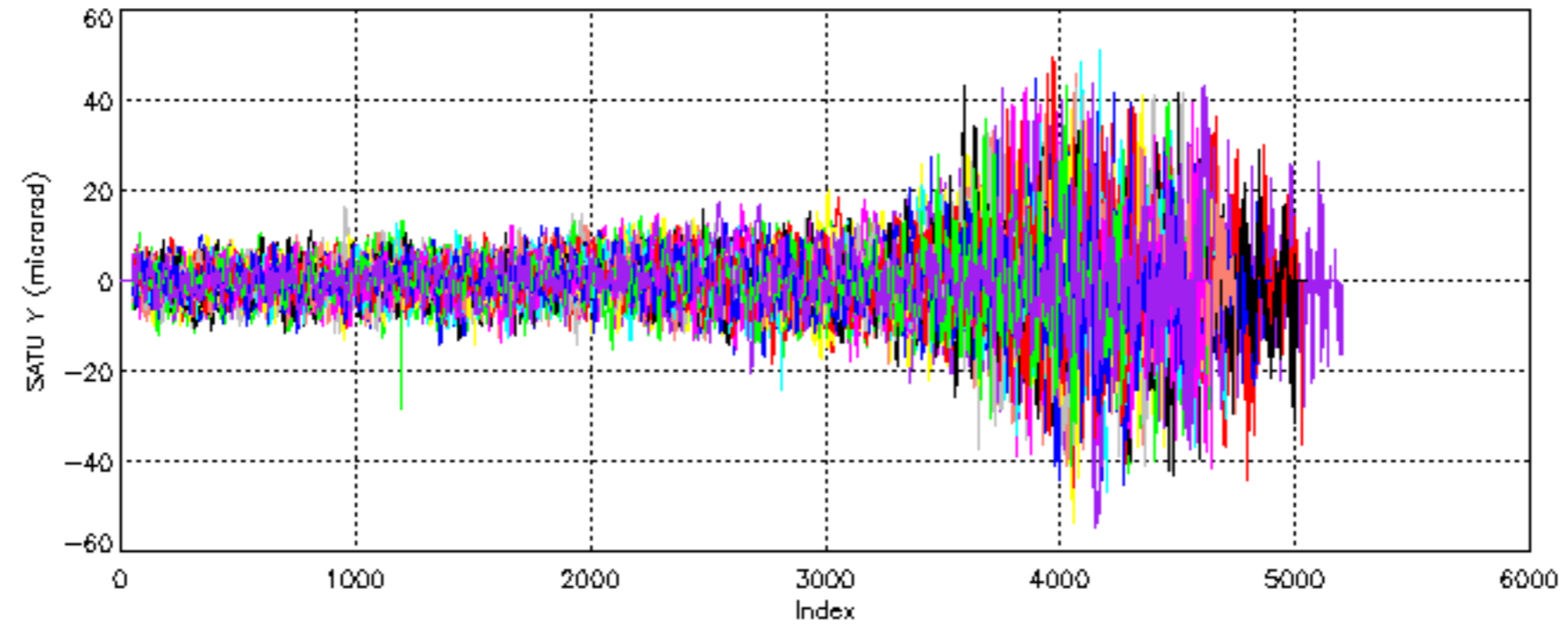
Tangent altitude at which the star is lost

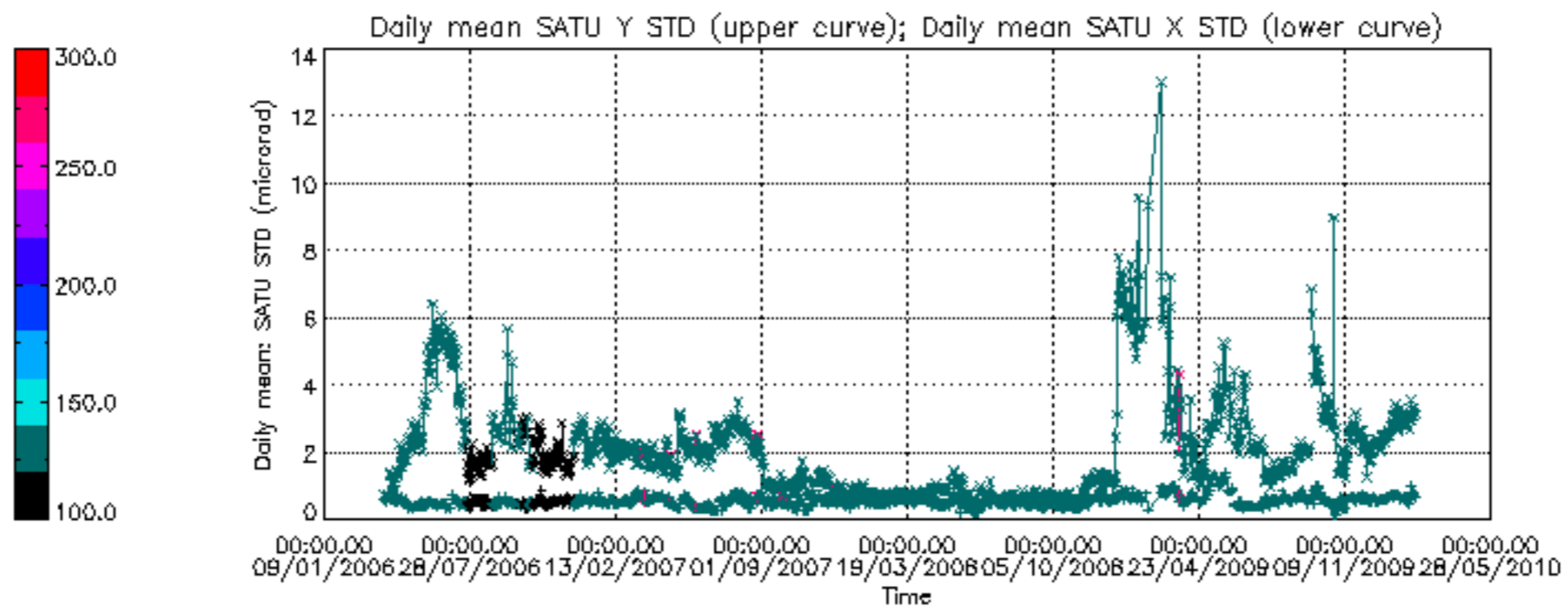


Tangent altitude at which the star is lost











/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  
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 23; 4304.9; 01-FEB-2010 02:03:35; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41425  
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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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 6; 3893.1; 02-FEB-2010 08:07:30; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41443  
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 8; 4307.3; 02-FEB-2010 08:14:24; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;41443  
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 10; 4931.4; 02-FEB-2010 08:24:48; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 0;41443  
 11; 5323.9; 02-FEB-2010 08:31:20; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;41443  
 12; 5586.1; 02-FEB-2010 08:35:43; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;41443  
 13; 5673.1; 02-FEB-2010 08:37:10; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41443  
 14; 5935.3; 02-FEB-2010 08:41:32; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;41443  
 15; 6071.1; 02-FEB-2010 08:43:48; Dark ; 45.5; 109; Bet Lup ; 2.68; 26000;occ; 91; 0;41443  
 16; 6241.2; 02-FEB-2010 08:46:38; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;41443  
 17; 6314.1; 02-FEB-2010 08:47:51; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41443  
 18; 6516.4; 02-FEB-2010 08:51:13; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41443  
 19; 6642.5; 02-FEB-2010 08:53:19; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;41443  
 20; 6750.7; 02-FEB-2010 08:55:07; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41443  
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 22; 6969.8; 02-FEB-2010 08:58:46; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41443  
 23; 7120.3; 02-FEB-2010 09:01:17; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;41443  
 24; 7245.5; 02-FEB-2010 09:03:22; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41443  
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 3; 2454.1; 02-FEB-2010 09:24:07; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;41444  
 4; 3428.1; 02-FEB-2010 09:40:21; Bright; 50.0; 49; 1Alp UMi ; 1.99; 6300;occ; 100; 0;41444  
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 6; 3893.1; 02-FEB-2010 09:48:05; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41444  
 7; 4086.4; 02-FEB-2010 09:51:19; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41444  
 8; 4307.5; 02-FEB-2010 09:55:00; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41444  
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 11; 5324.2; 02-FEB-2010 10:11:57; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;41444  
 12; 5586.8; 02-FEB-2010 10:16:19; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;41444  
 13; 5674.0; 02-FEB-2010 10:17:46; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41444  
 14; 6005.4; 02-FEB-2010 10:23:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41444  
 15; 6241.7; 02-FEB-2010 10:27:14; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;41444  
 16; 6314.7; 02-FEB-2010 10:28:27; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41444  
 17; 6517.0; 02-FEB-2010 10:31:49; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41444  
 18; 6643.2; 02-FEB-2010 10:33:56; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;41444  
 19; 6751.2; 02-FEB-2010 10:35:44; Dark ; 41.0; 159; Ups Car ; 2.92; 7200;occ; 82; 0;41444  
 20; 6866.1; 02-FEB-2010 10:37:38; Dark ; 45.5; 71; Iot Car ; 2.25; 7700;occ; 91; 0;41444



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 6; 3892.9; 02-FEB-2010 11:28:41; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41445
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 8; 4307.6; 02-FEB-2010 11:35:36; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41445
 9; 4803.6; 02-FEB-2010 11:43:52; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;41445
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11; 5324.8; 02-FEB-2010 11:52:33; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;41445
12; 5587.4; 02-FEB-2010 11:56:56; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41445
13; 5675.3; 02-FEB-2010 11:58:24; Dark ; 46.5; 158; 6Pi Sco ; 2.91; 28000;occ; 93; 0;41445
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22; 6970.5; 02-FEB-2010 12:19:59; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;41445
23; 7120.8; 02-FEB-2010 12:22:29; Dark ; 37.0; 34; Gam2Vel ; 1.79; 23000;occ; 74; 0;41445
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 8; 4086.7; 02-FEB-2010 13:12:31; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;41446
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21; 6644.7; 02-FEB-2010 13:55:09; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;41446
22; 6751.6; 02-FEB-2010 13:56:56; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41446
23; 6867.0; 02-FEB-2010 13:58:51; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;41446
24; 6970.9; 02-FEB-2010 14:00:35; Dark ; 36.5; 46; Del Vel ; 1.95; 10600;occ; 73; 0;41446
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 5; 3428.3; 02-FEB-2010 14:42:08; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;41447
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 23; 6971.1; 02-FEB-2010 15:41:11; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;41447  
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 3; 1471.8; 02-FEB-2010 17:30:44; Dark ; 39.5; 132; 15Rho Pup ; 2.80; 6900;occ; 79; 0;41449  
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 9; 3891.8; 02-FEB-2010 18:11:04; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41449  
 10; 4086.7; 02-FEB-2010 18:14:19; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41449  
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 23; 6752.5; 02-FEB-2010 18:58:44; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41449  
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 16; 5941.0; 02-FEB-2010 20:25:49; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;41450  
 17; 6161.2; 02-FEB-2010 20:29:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41450  
 18; 6245.0; 02-FEB-2010 20:30:53; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;41450  
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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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 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  
 28; 6164.1; 03-FEB-2010 03:11:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41454  
 29; 6247.3; 03-FEB-2010 03:13:19; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 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  
 32; 6651.0; 03-FEB-2010 03:20:02; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41454  
 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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 36; 7123.0; 03-FEB-2010 03:27:54; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41454  
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 3; -311.7; 05-FEB-2010 02:01:21; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41482
 4; -67.6; 05-FEB-2010 02:05:25; Dark ; 47.0; 131; Gam Lup ; 2.80; 26000;occ; 94; 0;41482
 5; 148.4; 05-FEB-2010 02:09:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41483
 6; 301.4; 05-FEB-2010 02:11:35; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;41483
 7; 636.4; 05-FEB-2010 02:17:09; Dark ; 43.0; 99; Del Cen ; 2.58; 26000;occ; 86; 0;41483
 8; 944.6; 05-FEB-2010 02:22:18; Dark ; 47.0; 46; Del Vel ; 1.95; 10600;occ; 94; 0;41483
 9; 1099.4; 05-FEB-2010 02:24:52; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41483
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11; 1994.8; 05-FEB-2010 02:39:48; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;41483
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13; 3598.7; 05-FEB-2010 03:06:32; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41483
14; 3885.6; 05-FEB-2010 03:11:19; Bright; 4.5; 119; 14Eta Dra ; 2.73; 4700;occ; 9; 0;41483
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 8; 302.2; 05-FEB-2010 03:52:11; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41484
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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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 9; 149.8; 05-FEB-2010 05:30:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41485
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4; 308.8; 05-FEB-2010 22:18:53; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;41495  
5; 481.2; 05-FEB-2010 22:21:45; Dark ; 47.0; 20; Bet Cru ; 1.25; 30000;occ; 94; 0;41495  
6; 564.8; 05-FEB-2010 22:23:09; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41495  
7; 845.8; 05-FEB-2010 22:27:50; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41495  
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9; 2386.6; 05-FEB-2010 22:53:31; Bright; 38.0; 17; 78Bet Gem ; 1.16; 4500;occ; 76; 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  
14; 4949.8; 05-FEB-2010 23:36:14; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;41495  
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3; 157.8; 05-FEB-2010 23:56:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41496  
4; 309.3; 05-FEB-2010 23:59:29; Dark ; 38.5; 10; Bet Cen ; 0.61; 28000;occ; 77; 0;41496  
5; 481.8; 06-FEB-2010 00:02:22; Dark ; 49.0; 20; Bet Cru ; 1.25; 30000;occ; 98; 0;41496  
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7; 845.6; 06-FEB-2010 00:08:26; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;41496  
8; 948.0; 06-FEB-2010 00:10:08; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41496  
9; 1103.9; 06-FEB-2010 00:12:44; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41496  
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11; 475.7; 05-FEB-2010 07:16:17; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;41486  
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13; 842.8; 05-FEB-2010 07:22:24; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41486  
14; 945.8; 05-FEB-2010 07:24:07; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41486  
15; 1218.8; 05-FEB-2010 07:28:40; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41486  
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5; 4085.5; 05-FEB-2010 08:16:26; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;41486  
6; 4946.3; 05-FEB-2010 08:30:47; Bright; 43.5; 126; 60Bet Oph ; 2.77; 4250;occ; 87; 0;41486  
7; 5348.0; 05-FEB-2010 08:37:29; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41486  
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9; 5725.9; 05-FEB-2010 08:43:47; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;41486  
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14; 6593.9; 05-FEB-2010 08:58:15; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41486  
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16; 6595.7; 05-FEB-2010 12:19:29; Dark ; 53.5; 64; Gam Cen ; 2.20; 10600;occ; 107; 0;41488  
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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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7; -405.7; 06-FEB-2010 08:10:34; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;41500  
8; 312.6; 06-FEB-2010 08:22:32; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41501  
9; 485.0; 06-FEB-2010 08:25:25; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0;41501  
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11; 846.9; 06-FEB-2010 08:31:27; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41501  
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13; 1105.1; 06-FEB-2010 08:35:45; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;41501  
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3; 3881.6; 06-FEB-2010 09:22:01; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41501  
4; 4084.9; 06-FEB-2010 09:25:25; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41501  
5; 4821.8; 06-FEB-2010 09:37:42; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41501  
6; 4951.9; 06-FEB-2010 09:39:52; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;41501  
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8; 5731.4; 06-FEB-2010 09:52:51; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;41501  
9; 6349.2; 06-FEB-2010 10:03:09; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41501  
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11; 6606.6; 06-FEB-2010 10:07:26; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41501  
12; 6883.2; 06-FEB-2010 10:12:03; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41501  
13; 6986.8; 06-FEB-2010 10:13:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41501  
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3; 3881.3; 06-FEB-2010 11:02:37; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;41502  
4; 4084.6; 06-FEB-2010 11:06:00; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41502  
5; 4822.1; 06-FEB-2010 11:18:18; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;41502

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13; 6883.8; 06-FEB-2010 11:52:40; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41502
14; 6992.5; 06-FEB-2010 11:54:28; Dark ; 35.5; 46; Del Vel ; 1.95; 10600;occ; 71; 0;41502
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3; -1951.4; 06-FEB-2010 12:46:36; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41503
4; -1213.6; 06-FEB-2010 12:58:54; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41503
5; -1083.1; 06-FEB-2010 13:01:04; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;41503
6; -677.6; 06-FEB-2010 13:07:50; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41503
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2; -186.4; 07-FEB-2010 21:07:24; Dark ; 43.0; 147; Alp Ara ; 2.88; 26000;occ; 86; 0;41522
3; -31.3; 07-FEB-2010 21:09:59; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41522
4; 177.7; 07-FEB-2010 21:13:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41523
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5; 666.6; 07-FEB-2010 23:02:12; Dark ; 49.0; 99; Del Cen ; 2.58; 26000;occ; 98; 0;41524
6; 2385.2; 07-FEB-2010 23:30:51; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41524
7; 3587.3; 07-FEB-2010 23:50:53; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41524
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9; 4083.7; 07-FEB-2010 23:59:10; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41524
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3; -1078.9; 07-FEB-2010 07:27:44; Bright; 57.0; 126; 60Bet Oph ; 2.77; 4250;occ; 114; 0;41514
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5; -533.0; 07-FEB-2010 07:36:50; Dark ; 45.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 90; 0;41514
6; -189.4; 07-FEB-2010 07:42:33; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;41514

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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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4; 4071.6; 16-FEB-2010 20:54:59; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41651  
5; 4330.4; 16-FEB-2010 20:59:18; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41651  
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7; 691.9; 16-FEB-2010 21:39:15; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41652  
8; 931.5; 16-FEB-2010 21:43:15; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;41652  
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9; 1740.2; 16-FEB-2010 23:37:19; Dark ; 50.5; 48; 30Alp Hya ; 1.98; 4100;occ; 101; 0;41653  
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11; 4071.6; 17-FEB-2010 00:16:11; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41653  
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4; 485.8; 16-FEB-2010 11:32:14; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41646  
5; 585.2; 16-FEB-2010 11:33:53; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;41646  
6; 688.2; 16-FEB-2010 11:35:36; Dark ; 51.5; 64; Gam Cen ; 2.20; 10600;occ; 103; 0;41646  
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3; 4072.4; 16-FEB-2010 12:32:00; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41646  
4; 4329.9; 16-FEB-2010 12:36:18; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41646  
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9; 6438.3; 16-FEB-2010 13:11:26; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41646  
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4; 4330.5; 16-FEB-2010 14:16:54; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41647  
5; 5019.2; 16-FEB-2010 14:28:23; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41647  
6; 5721.4; 16-FEB-2010 14:40:05; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41647  
7; 6095.9; 16-FEB-2010 14:46:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41647  
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9; 6439.0; 16-FEB-2010 14:52:03; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41647  
10; 6522.5; 16-FEB-2010 14:53:26; Dark ; 46.0; 77; Eps Cen ; 2.30; 28000;occ; 92; 0;41647  
11; 6620.9; 16-FEB-2010 14:55:05; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;41647  
12; 6725.3; 16-FEB-2010 14:56:49; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41647  
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3; 4072.3; 16-FEB-2010 15:53:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41648  
4; 4330.3; 16-FEB-2010 15:57:30; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41648  
5; 5019.7; 16-FEB-2010 16:08:59; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41648  
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7; 5590.0; 16-FEB-2010 16:18:29; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;41648  
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9; 6096.5; 16-FEB-2010 16:26:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41648  
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12; 6523.3; 16-FEB-2010 16:34:03; Dark ; 45.5; 77; Eps Cen ; 2.30; 28000;occ; 91; 0;41648  
13; 6621.5; 16-FEB-2010 16:35:41; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;41648  
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3; 4072.2; 16-FEB-2010 17:33:48; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;41649  
4; 4330.7; 16-FEB-2010 17:38:06; Bright; 42.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 84; 0;41649  
5; 5020.2; 16-FEB-2010 17:49:36; Dark ; 52.5; 126; 60Bet Oph ; 2.77; 4250;occ; 105; 0;41649  
6; 5590.1; 16-FEB-2010 17:59:06; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41649  
7; 5722.6; 16-FEB-2010 18:01:18; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41649  
8; 6097.0; 16-FEB-2010 18:07:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41649  
9; 6361.3; 16-FEB-2010 18:11:57; Dark ; 54.0; 4; Alp1Cen ;-0.01; 5800;occ; 108; 0;41649  
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5; 5020.9; 16-FEB-2010 19:30:12; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41650  
6; 5723.0; 16-FEB-2010 19:41:55; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;41650  
7; 6097.5; 16-FEB-2010 19:48:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41650  
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6; 588.1; 17-FEB-2010 00:58:43; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;41654
7; 693.4; 17-FEB-2010 01:00:28; Dark ; 51.5; 64; Gam Cen ; 2.20; 10600;occ; 103; 0;41654
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8; 932.7; 17-FEB-2010 02:45:04; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;41655
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6; 64.1; 17-FEB-2010 04:11:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41656
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4; -309.3; 17-FEB-2010 05:45:34; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41656
5; 64.6; 17-FEB-2010 05:51:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41657
6; 329.1; 17-FEB-2010 05:56:12; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41657
7; 408.4; 17-FEB-2010 05:57:31; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41657
8; 493.5; 17-FEB-2010 05:58:56; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;41657
9; 589.6; 17-FEB-2010 06:00:32; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;41657
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11; 933.9; 17-FEB-2010 06:06:17; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41657
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3; 4069.7; 17-FEB-2010 22:03:56; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41666
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3; 69.2; 17-FEB-2010 22:37:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41667
4; 335.5; 17-FEB-2010 22:42:18; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41667
5; 414.8; 17-FEB-2010 22:43:37; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41667
6; 501.2; 17-FEB-2010 22:45:04; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41667
7; 594.4; 17-FEB-2010 22:46:37; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41667
8; 703.2; 17-FEB-2010 22:48:26; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41667

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3; 4070.9; 17-FEB-2010 08:39:10; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41658  
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8; 6366.4; 17-FEB-2010 09:17:25; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41658  
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12; 6733.2; 17-FEB-2010 09:23:32; Dark ; 48.5; 64; Gam Cen ; 2.20; 10600;occ; 97; 0;41658  
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3; 4070.6; 17-FEB-2010 10:19:45; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;41659  
4; 4331.1; 17-FEB-2010 10:24:06; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41659  
5; 5026.0; 17-FEB-2010 10:35:41; Dark ; 50.0; 126; 60Bet Oph ; 2.77; 4250;occ; 100; 0;41659  
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7; 6101.9; 17-FEB-2010 10:53:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41659  
8; 6367.1; 17-FEB-2010 10:58:02; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;41659  
9; 6446.2; 17-FEB-2010 10:59:21; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41659  
10; 6531.7; 17-FEB-2010 11:00:46; Dark ; 46.0; 77; Eps Cen ; 2.30; 28000;occ; 92; 0;41659  
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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  
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13; 6734.6; 17-FEB-2010 12:44:45; Dark ; 51.0; 64; Gam Cen ; 2.20; 10600;occ; 102; 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  
6; 5729.6; 17-FEB-2010 14:08:36; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41661



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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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11; 6534.2; 17-FEB-2010 16:02:37; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41662
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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7; 5811.3; 17-FEB-2010 17:31:10; Dark ; 52.0; 75; 26Eps Sco ; 2.29; 4250;occ; 104; 0;41663
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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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6; 501.9; 18-FEB-2010 00:25:40; Dark ; 46.5; 77; Eps Cen ; 2.30; 28000;occ; 93; 0;41668  
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8; 704.1; 18-FEB-2010 00:29:02; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41668  
9; 938.4; 18-FEB-2010 00:32:57; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;41668  
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13; 4331.8; 18-FEB-2010 01:29:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 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  
9; 938.8; 18-FEB-2010 02:13:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41669  
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3; -1704.0; 18-FEB-2010 03:10:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41669  
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8; 337.3; 18-FEB-2010 03:44:07; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;41670  
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2; -1703.6; 18-FEB-2010 04:50:42; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41670  
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4; -218.3; 18-FEB-2010 05:15:28; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;41670  
5; 71.2; 18-FEB-2010 05:20:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41671  
6; 337.9; 18-FEB-2010 05:24:44; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;41671  
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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4; 4067.6; 18-FEB-2010 21:32:17; Bright; 60.5; 130; 23Bet Dra ; 2.80; 5800;occ; 121; 0;41680  
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6; 512.0; 18-FEB-2010 22:13:37; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;41681
7; 601.1; 18-FEB-2010 22:15:06; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41681
8; 713.8; 18-FEB-2010 22:16:59; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41681
9; 944.1; 18-FEB-2010 22:20:49; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41681
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3; 77.3; 18-FEB-2010 23:46:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41682
4; 344.4; 18-FEB-2010 23:51:26; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;41682
5; 423.9; 18-FEB-2010 23:52:45; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;41682
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8; 714.5; 18-FEB-2010 23:57:36; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 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
8; 505.3; 18-FEB-2010 07:08:07; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41672
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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4; 4332.4; 18-FEB-2010 08:11:54; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41672
5; 5736.7; 18-FEB-2010 08:35:19; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41672
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
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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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7; 6108.6; 18-FEB-2010 10:22:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41673
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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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11; 6634.1; 18-FEB-2010 10:30:52; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41673
12; 6744.7; 18-FEB-2010 10:32:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41673
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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
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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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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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6; 84.1; 19-FEB-2010 21:34:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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3; 4066.3; 19-FEB-2010 12:37:39; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41689
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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12; 6756.3; 19-FEB-2010 13:22:29; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 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
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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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3; 4066.0; 19-FEB-2010 15:58:51; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41691
4; 4333.7; 19-FEB-2010 16:03:18; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;41691
5; 4758.3; 19-FEB-2010 16:10:23; Bright; 52.5; 168; 17Zet Aql ; 2.99; 11000;occ; 105; 0;41691
6; 5749.0; 19-FEB-2010 16:26:54; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41691
7; 5836.4; 19-FEB-2010 16:28:21; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41691
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11; 6466.3; 19-FEB-2010 16:38:51; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41691
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
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13; 6007.2; 19-FEB-2010 18:11:48; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;41692
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17; 6643.0; 19-FEB-2010 18:22:24; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41692
18; 6758.6; 19-FEB-2010 18:24:19; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41692
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4; 3537.0; 19-FEB-2010 19:11:14; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41693
5; 4065.6; 19-FEB-2010 19:20:02; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41693
6; 4333.6; 19-FEB-2010 19:24:30; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;41693
7; 4758.7; 19-FEB-2010 19:31:35; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41693
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13; 6119.5; 19-FEB-2010 19:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41693
14; 6387.8; 19-FEB-2010 19:58:44; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;41693
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4; 4092.5; 20-FEB-2010 10:25:52; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;41702
5; 4334.4; 20-FEB-2010 10:29:54; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41702
6; 4760.8; 20-FEB-2010 10:37:01; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;41702
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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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13; 5668.6; 27-FEB-2010 20:35:38; Dark ; 49.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 99; 0;41808
14; 5834.5; 27-FEB-2010 20:38:23; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;41808
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13; 3497.8; 28-FEB-2010 02:41:50; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41812
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2;-1824.8; 28-FEB-2010 02:53:44; Bright; 34.0; 144; 18Del Cyg ; 2.86; 11000;occ; 68; 0;41812
3;-1695.2; 28-FEB-2010 02:55:53; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41812
4;-1243.7; 28-FEB-2010 03:03:25; Bright; 40.0; 168; 17Zet Aql ; 2.99; 11000;occ; 80; 0;41812
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6; -197.9; 28-FEB-2010 03:20:51; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;41812
7; -63.4; 28-FEB-2010 03:23:05; Dark ; 25.0; 136; 23Tau Sco ; 2.82; 30000;occ; 50; 0;41812
8; -14.9; 28-FEB-2010 03:23:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41812
9; 278.6; 28-FEB-2010 03:28:47; Dark ; 49.5; 131; Gam Lup ; 2.80; 26000;occ; 99; 0;41813
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12; 608.7; 28-FEB-2010 03:34:17; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41813
13; 720.9; 28-FEB-2010 03:36:09; Dark ; 41.0; 26; Gam Cru ; 1.62; 2900;occ; 82; 0;41813
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3;-1824.8; 28-FEB-2010 04:34:20; Bright; 34.5; 144; 18Del Cyg ; 2.86; 11000;occ; 69; 0;41813
4;-1695.3; 28-FEB-2010 04:36:29; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41813
5;-1243.3; 28-FEB-2010 04:44:01; Bright; 57.0; 168; 17Zet Aql ; 2.99; 11000;occ; 114; 0;41813
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7; -364.2; 28-FEB-2010 04:58:40; Dark ; 39.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 79; 0;41813
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9; -61.8; 28-FEB-2010 05:03:43; Dark ; 25.0; 136; 23Tau Sco ; 2.82; 30000;occ; 50; 0;41813

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12;	424.3;	28-FEB-2010	05:11:49;	Dark ;	45.0;	4;	Alp1Cen ; -0.01;	5800;occ;	90;	0;41814
13;	503.8;	28-FEB-2010	05:13:08;	Dark ;	40.5;	10;	Bet Cen ; 0.61;	28000;occ;	81;	0;41814
14;	609.5;	28-FEB-2010	05:14:54;	Dark ;	43.5;	77;	Eps Cen ; 2.30;	28000;occ;	87;	0;41814
15;	721.3;	28-FEB-2010	05:16:46;	Dark ;	45.0;	26;	Gam Cru ; 1.62;	2900;occ;	90;	0;41814
16;	804.2;	28-FEB-2010	05:18:09;	Dark ;	44.5;	64;	Gam Cen ; 2.20;	10600;occ;	89;	0;41814
17;	2126.9;	28-FEB-2010	05:40:11;	Bright;	43.0;	22;	32Alp Leo ; 1.36;	15200;occ;	86;	0;41814
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19;	2827.4;	28-FEB-2010	05:51:52;	Bright;	49.0;	174;	52Psi UMa ; 3.00;	4400;occ;	98;	0;41814
20;	2989.7;	28-FEB-2010	05:54:34;	Bright;	41.0;	82;	48Bet UMa ; 2.37;	10600;occ;	82;	0;41814
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2;	2283.3;	28-FEB-2010	20:48:11;	Bright;	44.0;	51;	41Gam1Leo ; 2.01;	4500;occ;	88;	0;41823
3;	2821.4;	28-FEB-2010	20:57:09;	Bright;	44.5;	174;	52Psi UMa ; 3.00;	4400;occ;	89;	0;41823
4;	2985.0;	28-FEB-2010	20:59:53;	Bright;	41.5;	82;	48Bet UMa ; 2.37;	10600;occ;	83;	0;41823
5;	3493.9;	28-FEB-2010	21:08:22;	Bright;	42.5;	60;	7Bet UMi ; 2.08;	3950;occ;	85;	0;41823
6;	3776.6;	28-FEB-2010	21:13:05;	Bright;	48.0;	119;	14Eta Dra ; 2.73;	4700;occ;	96;	0;41823
7;	4039.0;	28-FEB-2010	21:17:27;	Bright;	42.0;	130;	23Bet Dra ; 2.80;	5800;occ;	84;	0;41823
8;	4211.8;	28-FEB-2010	21:20:20;	Bright;	34.0;	144;	18Del Cyg ; 2.86;	11000;occ;	68;	0;41823
9;	4341.3;	28-FEB-2010	21:22:29;	Bright;	40.0;	5;	3Alp Lyr ; 0.03;	11000;occ;	80;	0;41823
10;	4796.1;	28-FEB-2010	21:30:04;	Bright;	39.0;	168;	17Zet Aql ; 2.99;	11000;occ;	78;	0;41823

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2;	-358.2;	28-FEB-2010	21:44:46;	Dark ;	45.5;	38;	20Eps Sgr ; 1.84;	11000;occ;	91;	0;41823
3;	-188.8;	28-FEB-2010	21:47:35;	Dark ;	51.5;	25;	35Lam Sco ; 1.62;	28000;occ;	103;	0;41823
4;	-3.5;	28-FEB-2010	21:50:40;	Dark ;	59.0;	0;	; 0.00;	0;occ;	118;	0;41823
5;	291.6;	28-FEB-2010	21:55:35;	Dark ;	50.0;	131;	Gam Lup ; 2.80;	26000;occ;	100;	0;41824
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7;	509.6;	28-FEB-2010	21:59:13;	Dark ;	51.0;	10;	Bet Cen ; 0.61;	28000;occ;	102;	0;41824
8;	616.5;	28-FEB-2010	22:01:00;	Dark ;	43.5;	77;	Eps Cen ; 2.30;	28000;occ;	87;	0;41824
9;	726.4;	28-FEB-2010	22:02:50;	Dark ;	51.5;	26;	Gam Cru ; 1.62;	2900;occ;	103;	0;41824
10;	810.3;	28-FEB-2010	22:04:14;	Dark ;	44.5;	64;	Gam Cen ; 2.20;	10600;occ;	89;	0;41824
11;	2124.6;	28-FEB-2010	22:26:08;	Bright;	44.5;	22;	32Alp Leo ; 1.36;	15200;occ;	89;	0;41824
12;	2282.9;	28-FEB-2010	22:28:47;	Bright;	44.5;	51;	41Gam1Leo ; 2.01;	4500;occ;	89;	0;41824
13;	2820.7;	28-FEB-2010	22:37:45;	Bright;	44.0;	174;	52Psi UMa ; 3.00;	4400;occ;	88;	0;41824
14;	2984.5;	28-FEB-2010	22:40:28;	Bright;	41.0;	82;	48Bet UMa ; 2.37;	10600;occ;	82;	0;41824
15;	3064.0;	28-FEB-2010	22:41:48;	Bright;	40.5;	36;	50Alp UMa ; 1.80;	6300;occ;	81;	0;41824
16;	3493.5;	28-FEB-2010	22:48:57;	Bright;	38.0;	60;	7Bet UMi ; 2.08;	3950;occ;	76;	0;41824
17;	3776.1;	28-FEB-2010	22:53:40;	Bright;	41.5;	119;	14Eta Dra ; 2.73;	4700;occ;	83;	0;41824
18;	4038.6;	28-FEB-2010	22:58:02;	Bright;	46.0;	130;	23Bet Dra ; 2.80;	5800;occ;	92;	0;41824
19;	4211.8;	28-FEB-2010	23:00:56;	Bright;	35.0;	144;	18Del Cyg ; 2.86;	11000;occ;	70;	0;41824
20;	4341.5;	28-FEB-2010	23:03:05;	Bright;	39.0;	5;	3Alp Lyr ; 0.03;	11000;occ;	78;	0;41824
21;	4796.5;	28-FEB-2010	23:10:40;	Bright;	38.5;	168;	17Zet Aql ; 2.99;	11000;occ;	77;	0;41824

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4;	-1695.0;	28-FEB-2010	06:17:05;	Bright;	41.5;	5;	3Alp Lyr ; 0.03;	11000;occ;	83;	0;41814
5;	-1242.8;	28-FEB-2010	06:24:38;	Bright;	39.5;	168;	17Zet Aql ; 2.99;	11000;occ;	79;	0;41814
6;	-548.5;	28-FEB-2010	06:36:12;	Dark ;	48.0;	57;	34Sig Sgr ; 2.07;	26000;occ;	96;	0;41814
7;	-363.8;	28-FEB-2010	06:39:17;	Dark ;	42.0;	38;	20Eps Sgr ; 1.84;	11000;occ;	84;	0;41814
8;	-196.4;	28-FEB-2010	06:42:04;	Dark ;	47.5;	25;	35Lam Sco ; 1.62;	28000;occ;	95;	0;41814
9;	-12.9;	28-FEB-2010	06:45:08;	Dark ;	59.5;	0;	; 0.00;	0;occ;	119;	0;41814
10;	280.7;	28-FEB-2010	06:50:01;	Dark ;	49.5;	131;	Gam Lup ; 2.80;	26000;occ;	99;	0;41815
11;	425.1;	28-FEB-2010	06:52:26;	Dark ;	46.0;	4;	Alp1Cen ; -0.01;	5800;occ;	92;	0;41815
12;	504.2;	28-FEB-2010	06:53:45;	Dark ;	50.0;	10;	Bet Cen ; 0.61;	28000;occ;	100;	0;41815
13;	610.2;	28-FEB-2010	06:55:31;	Dark ;	43.5;	77;	Eps Cen ; 2.30;	28000;occ;	87;	0;41815
14;	721.6;	28-FEB-2010	06:57:22;	Dark ;	45.0;	26;	Gam Cru ; 1.62;	2900;occ;	90;	0;41815
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3;	2826.9;	28-FEB-2010	07:32:27;	Bright;	45.0;	174;	52Psi UMa ; 3.00;	4400;occ;	90;	0;41815
4;	2988.8;	28-FEB-2010	07:35:09;	Bright;	42.0;	82;	48Bet UMa ; 2.37;	10600;occ;	84;	0;41815
5;	3497.0;	28-FEB-2010	07:43:37;	Bright;	39.5;	60;	7Bet UMi ; 2.08;	3950;occ;	79;	0;41815
6;	3780.4;	28-FEB-2010	07:48:21;	Bright;	46.5;	119;	14Eta Dra ; 2.73;	4700;occ;	93;	0;41815

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8; 4211.4; 28-FEB-2010 07:55:32; Bright; 34.5; 144; 18Del Cyg ; 2.86; 11000;occ; 69; 0;41815
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12; 5672.8; 28-FEB-2010 08:19:53; Dark ; 50.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 101; 0;41815
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13; 2820.2; 01-MAR-2010 00:18:20; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;41825
14; 2983.9; 01-MAR-2010 00:21:04; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;41825
15; 3063.4; 01-MAR-2010 00:22:23; Bright; 59.0; 36; 50Alp UMa ; 1.80; 6300;occ; 118; 0;41825
16; 3493.5; 01-MAR-2010 00:29:33; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41825
17; 3775.9; 01-MAR-2010 00:34:16; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;41825
18; 4038.7; 01-MAR-2010 00:38:38; Bright; 47.0; 130; 23Bet Dra ; 2.80; 5800;occ; 94; 0;41825
19; 4212.2; 01-MAR-2010 00:41:32; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;41825
20; 4341.3; 01-MAR-2010 00:43:41; Bright; 44.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 89; 0;41825
21; 4796.5; 01-MAR-2010 00:51:16; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;41825

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